

# MEGAsys – Server Graphic Alarm Display System Software Programming Manual

*(Revision: Ver.4.xx Server or above)*

<Ver.4.09 R5>



| <b><u>Chapter</u></b> | <b><u>Content</u></b>                   | <b><u>Page</u></b> |
|-----------------------|---|--------------------|
| <b>Chapter 1</b>      | <b>System Overview</b>                  | <b>1</b>           |
|                       | 1.1 System Diagram                      | 2                  |
|                       | 1.2 Software Introduction               | 3                  |
|                       | 1.3 System Introduction                 | 4                  |
| <b>Chapter 2</b>      | <b>Mimic Maps</b>                       | <b>9</b>           |
| <b>Chapter 3</b>      | <b>Edit Map</b>                         | <b>10</b>          |
|                       | 3.1 OPEN MAP                            | 11                 |
|                       | 3.2 EDIT MAP                            | 12                 |
|                       | 3.3 ICON INSERT                         | 13                 |
|                       | 3.4 Icon Delete                         | 20                 |
|                       | 3.5 MAP SAVE                            | 20                 |
|                       | 3.6 LINK MAP                            | 20                 |
|                       | 3.7 LINK DELETE                         | 21                 |
|                       | 3.8 LINK MAP DISPLAY                    | 21                 |
|                       | 3.9 Hide Link                           | 22                 |
|                       | 3.10 Check Link Map                     | 22                 |
| <b>Chapter 4</b>      | <b>System program parameters</b>        | <b>23</b>          |
|                       | 4.1 Edit Camera Parameters              | 23                 |
|                       | I. Input Parameters into Camera         | 23                 |
|                       | II. Camera Control Authorization Levels | 26                 |
|                       | III. Video Playback                     | 26                 |
|                       | 4.2 Monitor Setup                       | 35                 |
|                       | I. Time Program Setup                   | 35                 |
|                       | II. Video Tour Setup                    | 36                 |
|                       | III. Black Pause                        | 37                 |
|                       | IV. Monitor Control Authorization       | 37                 |
|                       | V. Audio Matrix                         | 38                 |
|                       | 4.3 Input Device Setup                  | 39                 |
|                       | I. Input Device Program Parameters      | 39                 |
|                       | II. Auto Shunt Timer Setup              | 41                 |
|                       | III. Special Date Setup                 | 42                 |
|                       | IV. Parameter Download                  | 43                 |
|                       | V. DDE Link                             | 44                 |
|                       | VI. PABX Link                           | 45                 |
|                       | VII. Analogue Point Setup               | 46                 |
|                       | 4.4 Output Device Setup                 | 47                 |
|                       | I. Output Setup                         | 47                 |
|                       | II. Time Channel Setup                  | 49                 |
|                       | III. Special (Holiday) Setup            | 50                 |

|            |                                       |           |
|------------|---------------------------------------|-----------|
| <b>4.5</b> | <b>Access Control Setup</b>           | <b>51</b> |
| I.         | Access Card Setup                     | 51        |
| II.        | Time Zone Setup                       | 58        |
| III.       | Access Level Parameter                | 59        |
| IV.        | Manual Access Control                 | 61        |
| V.         | Holiday Access Level Setup            | 62        |
| VI.        | Reader Controller Setup               | 64        |
| VII.       | ELV Control Parameter                 | 70        |
| VIII.      | Access Control Report                 | 74        |
| IX.        | Download Read Card Info               | 78        |
| X.         | Time Zone Status Display              | 79        |
| XI.        | Group Area Define                     | 79        |
| XII.       | DCU Door Control Unit Programming     | 83        |
| <br>4.6    | <br>System Setup                      | <br>97    |
| I.         | System Parameters                     | 97        |
| II.        | Operator Pass key Setup               | 100       |
| III.       | Video Sequence Setup                  | 102       |
| IV.        | Voice Broadcast Setup                 | 103       |
| V.         | MATRIX Setup                          | 105       |
| VI.        | Print Event                           | 108       |
| VII.       | Master I/O Configure                  | 109       |
| VIII.      | Master Interlock                      | 110       |
| X.         | TCP/ IP Network                       | 113       |
| XI.        | e-Mail                                | 115       |
| <br>4.7    | <br>Printer Setup                     | <br>128   |
| <br>4.8    | <br>Task Table                        | <br>128   |
| <br>4.9    | <br>HA Automation                     | <br>129   |
| <br>4.10   | <br>Sub-keyboard control setting      | <br>130   |
| I.         | Priority Setting of Camera Control    | 130       |
| II.        | Monitor Control Priority Setting      | 130       |
| III.       | Keyboard Control                      | 131       |
| <br>4.11   | <br>Communication Control Programming | <br>132   |
| <br>4.12   | <br>Communication Port                | <br>136   |
| <br>4.13   | <br>Operator Authorization Levels     | <br>145   |
| <br>4.14   | <br>Record Parameter                  | <br>151   |
| I.         | Camera Setup                          | 151       |
| II.        | System Setup                          | 151       |
| III.       | Monitor Sequential Setup              | 152       |
| IV.        | Monitor Video Tour Setup              | 152       |
| V.         | Input Point Setup                     | 152       |
| VI.        | Output Setup                          | 153       |
| VII.       | User card setup                       | 153       |
| VIII.      | Time Zone Parameter                   | 154       |
| IX.        | Access Level Parameter                | 154       |

|            |             |                                    |     |
|------------|-------------|------------------------------------|-----|
|            | X.          | Holiday Parameter                  | 154 |
|            | XI.         | Card Access Parameter              | 155 |
|            | XIII.       | Patrol Tour Parameter              | 156 |
|            | 4.15        | Event Time Control                 | 157 |
|            | 4.16        | Patrol Tour                        | 160 |
|            | I.          | Patrol Route Setup                 | 160 |
|            | II.         | Patrol Control Status              | 162 |
|            | III.        | Patrol Report                      | 162 |
|            | IV.         | Patrol Cad Define                  | 164 |
|            | V.          | Patrol Reader Setup                | 164 |
|            | VI.         | Camera Patrol Setup                | 165 |
|            | 4.17        | Intercom Control                   | 166 |
| Chapter 5  |             | Auto Secure/Shunt Group setup      | 167 |
| Chapter 6  |             | Time Channel Control               | 167 |
| Chapter 7  |             | System Alarm Log                   | 168 |
| Chapter 8  |             | System Events Log                  | 168 |
| Chapter 9  |             | Communication Configure            | 169 |
| Chapter 10 |             | Manual set diagnostic              | 171 |
| Chapter 11 |             | Video Tour Control                 | 177 |
| Chapter 12 |             | Monitor Control                    | 178 |
| Chapter 13 |             | DVR Control                        | 180 |
| Chapter 14 |             | Lock Grouping Control              | 185 |
| Chapter 15 |             | DVR 16Ch Control                   | 186 |
| Chapter 16 |             | Others                             | 188 |
| Chapter 17 |             | Electric lock and intercom control | 188 |
| Chapter 18 |             | System Version                     | 191 |
| Chapter 19 |             | Appendix                           | 192 |
|            | Attach. A – | Communication card hardware setup  | 192 |
|            | Attach. B – | Software Install                   | 197 |
|            | Attach. C – | RS-422 Network Card Applications   | 198 |
|            | Attach. D – | Table of Parameters                | 203 |



**Supplementary**

| <b><u>No</u></b> | <b><u>Content</u></b>  | <b><u>Page</u></b> |
|------------------|--|--------------------|
|                  | Appendix - 1.3: Lock Status  | 8                  |
|                  | How to inspect (Lock Status) file info?                                  | 8                  |
|                  | How to Refresh the status of the locks within the system?                | 8                  |
|                  | Appendx – 2.1: Operating Virtual Map                                     | 9                  |
|                  | How to insert all the floor plans into the master site map?              | 9                  |
|                  | Appendix 4.1.1: Other Speed Dome Settings                                | 27                 |
|                  | Appendix - Error Message   | 34                 |
|                  | Appendix – 4.5.1: Link Excel   | 87                 |
|                  | Appendix – 4.5.1: Edit Door Select – Access Report                       | 88                 |
|                  | Appendix – 4.5.1: Information Analysis using (Data Export & Data Import) | 89                 |
|                  | Appendix – 4.5.8.1: Schedule Array with Example                          | 90                 |
|                  | Appendix – 4.5.8.1: Edit Att Report                                      | 94                 |
|                  | Appendix – 4.5.8.2: Access Report  | 95                 |
|                  | Appendix – 4.5.8.3: Access Usage   | 96                 |
|                  | Appendix – 4.6.1: Default Option   | 117                |
|                  | Appendix – 4.6.5: Video Matrix Control Address Setup                     | 124                |
|                  | Appendix – 4.6.5: Divided Mode of Control                                | 125                |

Revision: Ver.4.09 R5 (November, 2004)

Without the authorization by EVERTECH Electronics Ltd. in writing, it is illegal to edit, copy, change, delete any part of this document content. EVERTECH Electronics Ltd. retains all the rights to edit or change this manual without any further notice.

- ❖ Windows 95, Windows 98, Windows NT are trade marks of Microsoft.
- ❖ RICHWIN is trade mark of Stone Technology.
- ❖ Other logo products being reference are trade marks of other companies.



### Chapter 1 System Overview

MEGAsys-GADS is a multimedia security system with robust features. Through its very user-friendly graphic display interface, the operator is able to utilize its Mimic Map on screen to program a powerful integration of security control system multiple input & output devices which include (but not limited to) Close Circuit Television, Door Access Control, and Patrol Tour systems. The centralized Matrix control, can easily access any input/output devices at a click of PC mouse to monitor, record or playback any video record of any event happening within any large area buildings. Through the VGA card on the TV monitor, operator can execute video monitoring and playback of any of the surveillance cameras, with outputs of alarm and devices installed on the Mimic Map. Fully auto interactive alarm system per each event that may happen round the clock and throughout the year.

Through multi-level Mimic Map, unlimited location plans can be accessed (zoom-in) step by step. From an aerial view, down to district street map, to building layout map and to individual floor plan of specific rooms... all can be clearly viewed on the PC screen. Different color codes are also used to indicate different device installations and various security status modes. Motion detection can also be displayed at different locations of the plan, fast, accurate and in real time.

#### ➤ **Mimic Map Display & Control**

Interactive alarm system can be set [On] or [Off] modes directly from the Mimic Map to control the alarm and CCTV cameras by pressing [Confirm] or [Resume]. Pan, tilt zoom cameras can also be controlled to move multi-directionally for area surveillance and with other preset execution commands for reactive actions. Real time video monitoring, recording and playback can also be setup and be displayed on either split screen or full screen

#### ➤ **Automatic interlock alarm system**

According to the Macro Program Commands of the alarm system, auto-monitoring of the CCTV is possible. Through this system, the various locations as appear on the multi-split screens can be manually or automatically controlled thru the interactive remote on/off of the gate, door, with video recording and playback be executed concurrently at the specific locations of alarm, access door and their electric locks.

#### ➤ **Multi-level color Mimic Map**

The system can track from the master plan, to district plan, to building layout floor plan of each building level. The number of different levels of map is unlimited. In order to handle the large scale, multi-level buildings, the different colors serve to represent the different devices already installed. Once the alarm is being triggered the device color will change to alert the security-on-duty, and the TV monitor of that specific area will switched to display the accurate location of where the alarm being activated.

#### ➤ **Display control**

User can select at his own will to position the display window in any position of the plan, use the graphics to represent any of the different devices, e.g. fixed cameras, pan-tilt-zoom cameras, video multiplex matrix, alarm input and output, video monitor display...etc. Through the graphic user interface control, the user can easily control the left-right-up-down movement of the PTZ camera, zoom-in/out the camera focus, control any of the alarm in/output and to verify any alarm in progress; as well to easily exchange to any monitoring display onto the PC or TV monitors.

#### ➤ **Video alert on-line**

When the system detects any alarm in progress, network monitor will automatically display the event happening on the lower left hand corner. When system alarm happens, the network monitor will automatically display (say alarm No. 1), and the user, using the mouse, can switch the camera No.2 to monitor No.3 and DVR no.1 for the real time video monitoring of alarm event in progress.

#### ➤ **Full Matrix video exchange control**

The user working at the multimedia terminal can control all the video switching and exchanges through the matrix box which is connected with all the video signal inputs of the entire system. This can be done manually or automatically on any of all the exchanges functions (e.g. alarm groups, macro, or time sequence monitoring).

#### ➤ **User PIN code control and priority assignment**

There are although 8 levels of end user authorization for the operation of the multimedia terminal, with different level for the control of different system functions. For example, lower operator level is not allowed to change or edit of the system design or the operating program. The operation is being divided into different control zones for the entire system. For example, the key board of the secondary control room is not allowed to control the PTZ camera of the main control room lobby. Only the main control room operator is authorized to do so. When there is more than one party want to control the PTZ camera, the priority is given according to the levels of authorization being assigned. And the first priority should always be given to the control room operator.

### ➤ Mimic maps & icon operation control with operator authorization levels

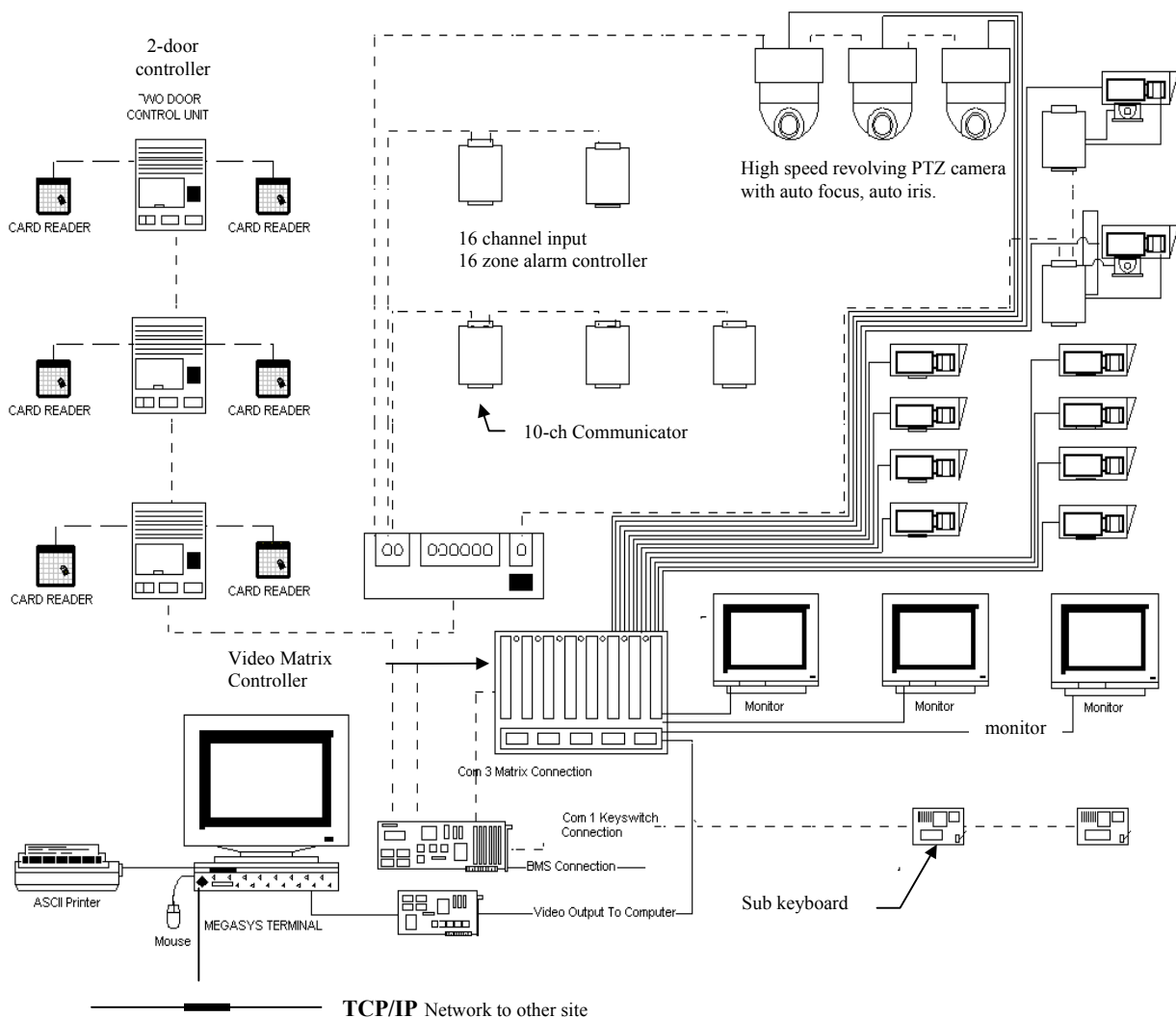
A number of the mimic maps can be controlled on the multi-media control system with the operator setting into the map different device icons, system diagrams, editing icons...etc. Different authorization levels allow operators with various priorities to design, set, program, edit and operate the system.

### ➤ Door access & corridor management control

To satisfy the need for management discipline and control there is a need for ensuring a stringent door/corridor access control. As such, the setting of the access control system must be done carefully with tight security & discipline in mind. The user is possible to achieve a complete system control, via management, control, analysis, and study the check-in, check-out record of each of the card holders of the door access system, by chorological order of year, month, day, hour, minute, and in terms of the attendance report information.

## 1.1 System Diagram

High level 3-in-1 a system integration diagram.



### 1.2 Software Introduction

MEGAsys-GADS is a PC base multimedia terminal operating system software (abbreviated as: MEGAsys) which operates on Microsoft Window platform and can be compatible with the different versions such as WINDOWS95/98 or WINDOWS NT/ XP, when installed onto the C portion (say C:) of the hard disk drive .

C: \MEGAsys\ it has 7 operating systems, as follow:

- C: \MEGAsys\MEGAsys.EXE – system software (Please do not modify non-operator portion)
- C: \MEGAsys\MAP –system graphic file (Please do not modify non-operator portion)
- C: \MEGAsys\VCR – system video record file
- C: \MEGAsys\\*\*\*\*.REP – alarm daily log file
- C: \MEGAsys\\*\*\*\*.REP – access daily log file
- C: \MEGAsys\SOUND – sound system file
- C: \MEGAsys\MACRO –interlock system Macro file

#### About Operating System File

C: \MEGAsys\MEGAsys.EXE system software

MEGAsys.EXE is the center of the entire system, which include all the system operating commands, file management, device information input/output display and storage.

C: \MEGAsys\ VCR system video record file

This is the system video record file, for the use of the entire system storage. The stored video is recorded by the dates, and the user can set the display and recording either manually or automatically.

C : \MEGAsys\ \*\*\*\*.REP -- alarm daily log (\*\*\*\* for date record)

This is the alarm record file, for the use of the entire alarm system. The record uses dates as reference. After the user select the system installation date, the system will display all the records from that date onwards and the user can select auto recording of the alarm, then display, store it or print it out.

C : \MEGAsys\ \*\*\*\*.REP -- access daily log file (\*\*\*\*for date record)

This is the access control alarm file, for the entire access system. The record use date as reference. After the user select the system installation date, the system will display all the records from that date onwards and the user can select auto recording of the access control, then display it, store it or print it out.

C: \MEGAsys\ SOUND – Voice message sound system file

This is the sound system storage file, for the use of the entire sound alarm system, such as access control and security alarm sound output, which use “\*.WAV” for recording. User can use WINDOWS95 to provide the sound function, and the sound output editing file and then input into the “\*.WAV” for setting the alarm device, CCTV camera and the card reader. When these device sound off an alarm, the system will automatically output the portion of the edited sound from this file.

C: \MEGAsys\ MACRO – interlock Macro output file

This is the interlock Macro output file, for the use of the entire interlock file, access control/security alarm output all use “\*MAC” for recording purpose. User can use the MEGAsys system programming tool to generate the Macro output commands and then store them into “\*.MAC”; insert the alarm device, the cameras, and the card readers. When the above mentioned devices are being triggered, the system will automatically generate the pre-edited Macro interlock output message.

- ❖ *Note: the above mentioned procedures must be edited and operated on the WINDOWS95 or the WINDOWS98\MEGAsys\ operating system. Please do not use the DOS operating system to change or edit the above files in order to avoid any file conflict or failure.*

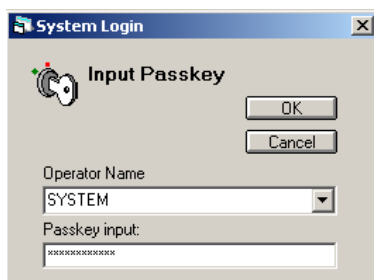
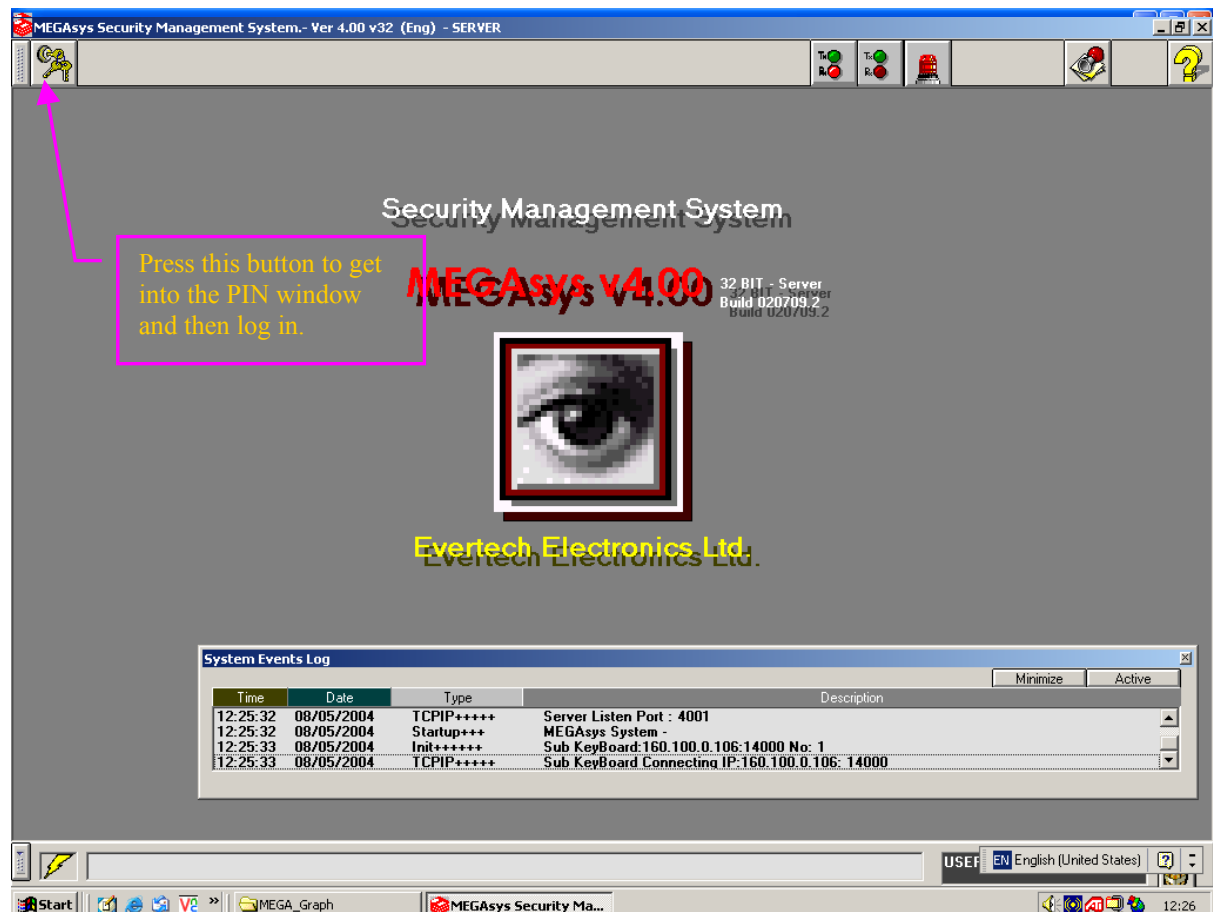
### 1.3 System Introduction

To fully maximize the MEGAsys' system functions and to achieve the optimal interactive effects between surveillance, alarm, access control, triggering and event log print out functions , after the user to complete the system set up and commissioning, it is very important to complete the following programming preparation steps:-

- A: system floor plan (create the and record down each of the icons of the plan)
- B: system diagram (record down the location & system number of each of the device)
- C: CCTV camera (record down the model number of the Pan Till Zoom camera, its protocols and locations)
- D: system alarm (record down all the quantity, connections, and locations of alarm devices)
- E: alarm device name, installation location and alarm instructions
- F: door access control device, numbers, name of the door and user info
- G: sub system control key board quantity
- H: logic diagram for the alarm system with the other interactive devices

#### ❑ Log-on to the system

When the WINDOWS95/98/NT is already up and running, enter the MEGAsys system as below steps.



#### ❑ Log into the Operating System

Point the cursor arrow to the operator name, enter name, press **OK** system will check and verify if the PIN is correct and will allow you into the MEGAsys-GADS system.

#### First time entry

Operator Name : **SYSTEM**  
Passkey input: **SYSTEM\_ADMIN**

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### ❑ Lock Status user name



- Lock Status window appear on the right hand side of monitor as shown here.
- Username will appear with the pink square between the Lock Status (as shown on left).



Lock Status is used to display all the DCU electric lock status within the system, user can find out all the location and the existing status, example: Force Open, Tamper, Door Jam or Door Keep Open ...etc. Such status are relative to the color code of the floor plan diagram and identical for the same status. Just at a glance, the operator can tell what is happening at the “point of service” locations of such door locks. The user can double click onto icon to find out more details of each of them.

There are a total of 9 different lock status categories, as show below each with a number right next to it to represent the specific status.

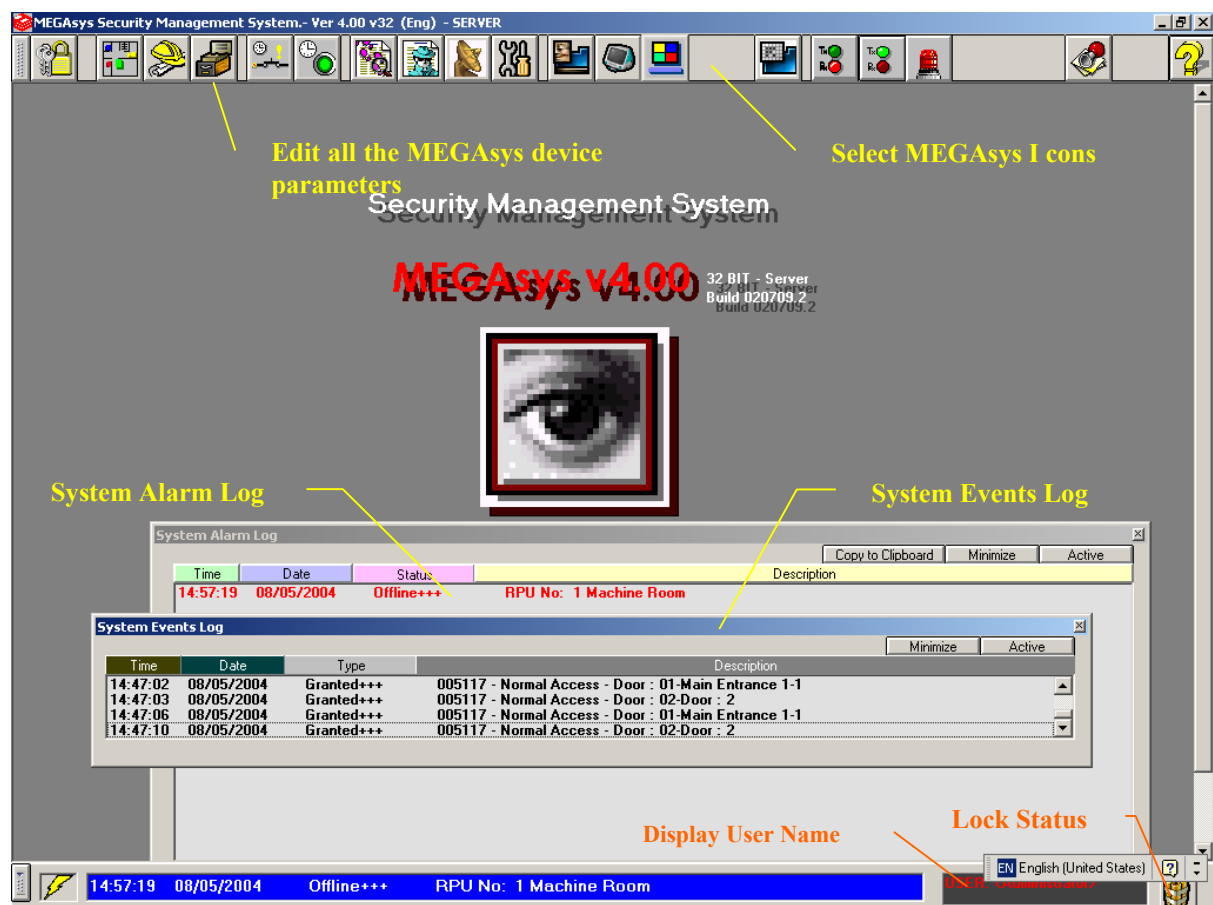
Example:

Force Open = 3 (ther are 3 locks under [Force Open] status)  
Interlock Error = 1 (there is 1 lock under [Interlock Error] status)  
Keep Open = 2 (there are 2 locks under [Keep Open] status) °

- ⇒ Numbers displayed = status categories
- ⇒ Operator must refresh the (Lock Status) once a while to get the latest info, by simple clicking the Refresh key within the table.
- ⇒ Altogether there are 9 (Alarm Status) categories and can be reset within the menu for different hardware, by clicking the Reset key.

## APPENDIX - 1.3: LOCK STATUS

Once into the MEGAsys-GADS system, user will see the display as follow:




# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

There are two menus for the system, Main Menu is as below:

| Item | Icon  | Function                       | Item | Icon  | Function                  |
|------|---|--------------------------------|------|---|---------------------------|
| 1    |    | System log-in/out              | 12   |    | Edit video monitoring     |
| 2    |    | Operation Mimic Map            | 13   |    | Monitor control           |
| 3    |    | Edit Map                       | 14   |    | DVR Quad Control          |
| 4    |    | System software                | 15   |    | DVR 16Ch Control          |
| 5    |    | Edit access/secure mode & time | 16   |    | Lock Grouping Control     |
| 6    |    | Edit auto output time group    | 17   |    | Channel 2 signal light    |
| 7    |    | Alarm event log                | 18   |    | Channel 1 signal light    |
| 8    |    | Access control event log       | 19   |    | Main alarm light signal   |
| 9    |   | Network connection status      | 20   |   | Access monitor & intercom |
| 10   |  | Alarm self inspection          | 21   |  | System version            |
| 11   |  | Digital video playback         | 22   |  | Lock Status               |











- ❖  Door Access and Intercom – when the device in system has been selected, it will appear on the main menu.



To enter into the Edit Map, user must be supervisor or manager grade with authorization at 7<sup>th</sup> level or above:

Move the mouse to the icon (as right) and right click the mouse, the system will show a window—Map Operation.

Secondary menu shown as below:

| Item | Icon  | Function       | Item | Icon   | Function     |
|------|---|----------------|------|--|--------------|
| 1    |  | Open map files | 6    |  | Insert map   |
| 2    |  | Edit Icon      | 7    |  | Delete map   |
| 3    |  | Insert icon    | 8    |  | Display link |
| 4    |  | Delete icon    | 9    |  | Hide link    |
| 5    |  | Save File      | 10   |  | Inspect link |



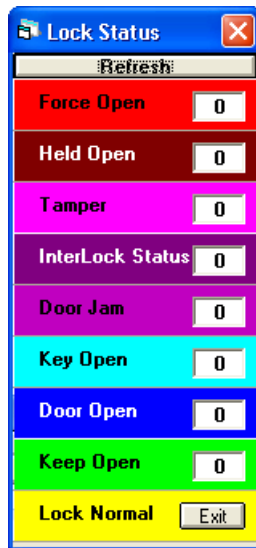
To enter [System parameter edit] user must be supervisor or manager level or with an authorization 7<sup>th</sup> level or above:

To edit the icon parameters, click onto the icon and the system will display a window of the specific function.

Secondary Menu 2 (as below):

| Item | Icon | Function             | Item | Icon | Function             |
|------|------|----------------------|------|------|----------------------|
| 1    |      | Camera Setup         | 9    |      | Home Automation      |
| 2    |      | Monitor Setup        | 10   |      | Subkeyboard Priority |
| 3    |      | Input Setup          | 11   |      | Communication Setup  |
| 4    |      | Output Setup         | 12   |      | System Communication |
| 5    |      | Access Control Setup | 13   |      | Operation Priority   |
| 6    |      | System Setup         | 14   |      | Report Print Out     |
| 7    |      | Printer Setup        | 15   |      | Time Events          |
| 8    |      | Task List            | 16   |      | Patrol Setup         |

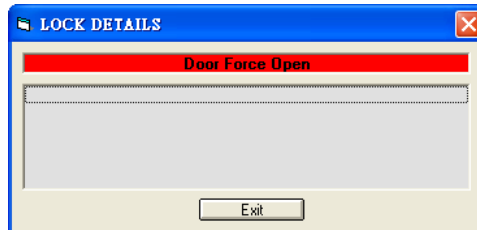
### Appendix - 1.3: Lock Status



#### How to inspect (Lock Status) file info?

If need to check the Lock Status-Force Open info, or to find out which lock 3 is having problem.

1. Double (left) click onto Force Open square.
2. LOCK DETAILS of the specific lock 3 will appear.



#### How to Refresh the status of the locks within the system?

1. Position the red arrow onto the interlock output display and click
2. Window – Lock Status will appear.
3. Press the **Refresh** key once , the system will refresh all the lock status info.



### Chapter 2 Mimic Maps

The virtual operating map or so called Mimic Map (i.e. SITE MAP) comprised of the multi-level floor plan and location map.

Site Map normally start as the building's external outlook, with multi-storey floor plan, each of which depicting the 3-dimensional distribution of rooms and their relationship with wall partitions, corridors, elevator lobby, fire exit, stair case...etc. MEGAsys site map can insert with the icons indicating the locations of all the security installation, alarm/siren, access control points, patrol check points, CCTV camera positions, together with such devices' operating status, settings... so that the operator can control and monitor the entire building system through the Site Map.

The architect and/or the mechanical & electrical engineering consultant company should provide the entire set of such site maps and floor plans, in the format of AutoCAD graphic files, or have the designer company convert them into Windows Bitmap Format file (\*.bmp) 16 bit files. All the extra details (such as the wiring and ducting conduits) are not necessary and should ask the design company to delete it from the site map. The final Windows Bitmap Format file (\*.bmp) 16bit file is all that is needed to install into the C:\MEGASYS content, and to establish the MEGAsys graphic display map.

Windows Bitmap Format file (\*.bmp) 16bit map should use subtle color tone background (e.g. black, grey, or lite grey...) so that the other graphic representations will appear to more vivid and outstanding.

Example: **Yellow** – represent on-guard status, **Blue** – represents off-guard status, **Red** – represent alarm status, **Pink** – represent open-circuit failure status and **Purple** – represent close circuit failure status

After completion of the 1<sup>st</sup> map, the user must store the Windows Bitmap Format file (\*.bmp) 16 bit map into the file under [C:\MEGAsys\], restart the MEGAsys system, and then open the stored [C:\MEGAsys\目錄下] floor plan to re-examine the dimensions, to make sure its size match exactly with the display monitor to see if there is any need for repositioning

Due to the fact that the partial floor plan is derived from the entire floor plan by shrinking and enlarging to make it clearly visible, thus attention must be paid to the its proportion of enlargement to ensure that it would not be larger than the monitor display size and thus need to move the plan to view the full picture.

After editing all the Windows Bitmap Format file (\*.bmp) 16 bit maps from the stored [C:\MEGAsys\目錄下] file, each of them should be labeled with a file name (e.g. label the master plan as L1.bmp, and label each of the 10 of the sub-plans as L1-1.bmp to L1-10.bmp) this numbering will facilitate the future editing and use.

### Appendx – 2.1: Operating Virtual Map

#### How to insert all the floor plans into the master site map?

1. SITE MAP must be provided by the architect or consulting company with a copy of the master plan. User must store the plan into AutoCAD forma, changing the “.DWG” into Windows Bitmap Format “.BMP” and then store into the system of MEGAsy. (Please refer to the MEGAsys system software quick manual Ver.2.3 (For MEGAsys Ver.3.xx)Chapter 2)
2. To store the info into MEGAsys and make the link, please refer to the Chapter 5 of the above manual. After storing into the system, user can press the [Operation Virtual Map] to view the map upon completion of such steps.

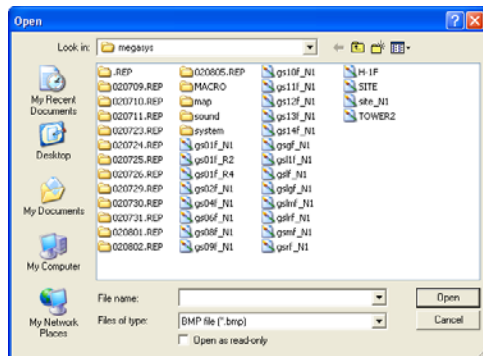
### Chapter 3 Edit Map

After the user established the operation virtual map (i.e. the master map or the external view diagram) the other work steps can begin. Example, insert all the secondary or sub-maps into the main map, and then edit a suitable system with one's own icons, for the monitor and control tasks.



#### ☐ Retrive maps

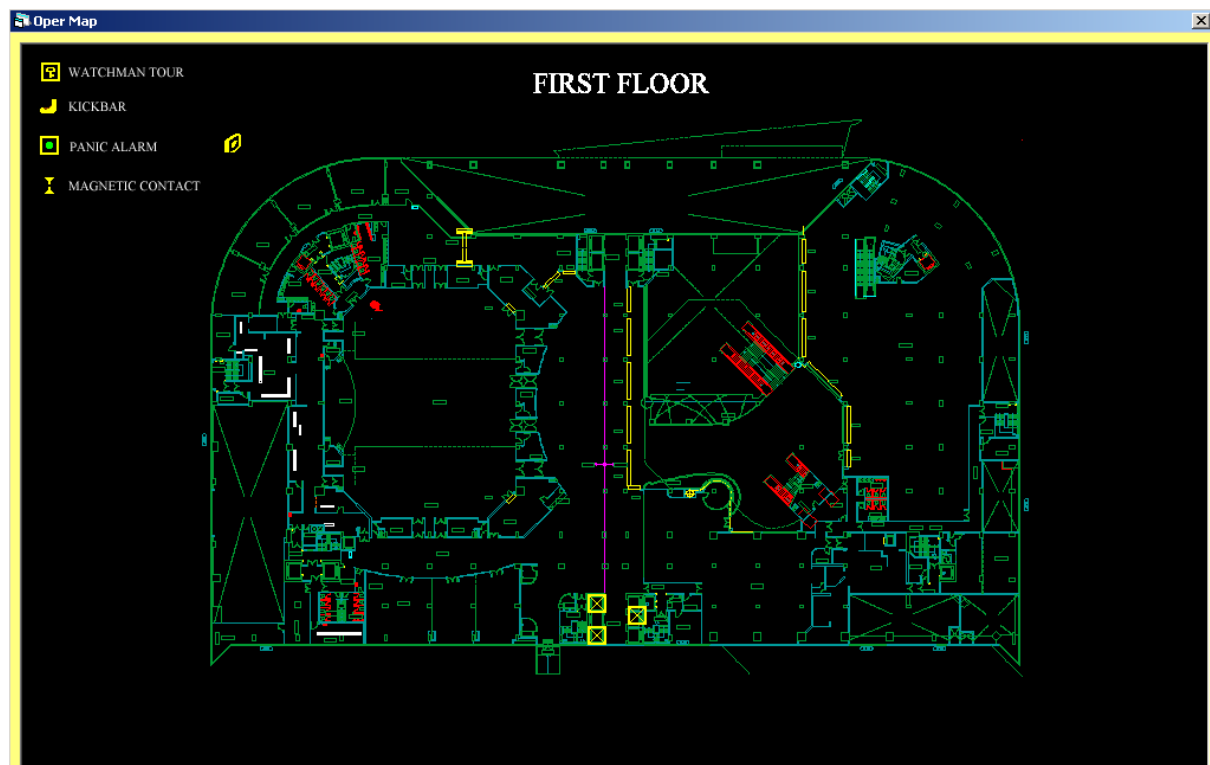
Enter into MEGAsys system, click onto the [Map Edit], MEGAsys system will show, [C:\MEGAsys\...] ° Windows Bitmap Format file (\*.bmp) 16bit map will appear for the user to access. °



User can retrieve the map from the file that needs to be edited from the C:\MEGAsys\...°

#### ☐ Edit the operation map

After opening the map, directly insert all the icons onto the proper positions:- CCTV cameras, alarm inputs, output monitors...etc. And use the different color codes (as above) to represent the different status.



The diagram above shows how to use the different color code to represent & display the different security status.

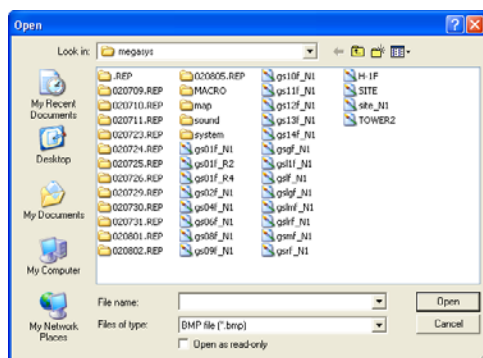
The below table summarize the status representations by colors:-

| Motion Icons                                   | Display status      | Icon Color         |
|--|---------------------|--------------------|
| Alarm input device icons                       | (Secure Mode)       | True Yellow        |
|  | (Access Mode)       | Blue               |
|  | (Acknowledge)       | Red                |
|  | (Fault Open)        | Deep Pink          |
|  | (Fault Short)       | Pink               |
|  | (Access alarm)      | Pastel Blue        |
|  | (Alarm)             | Flashing Red       |
| Output control device icons                    | (Stop)              | True Yellow (ICON) |
|  | (Start)             | Flashing Red       |
|  | (Access Mode)       | Pastel Blue        |
| Patrolling input device icons                  | (Normal)            | Yellow             |
|  | Patrol Tour         | Pastel Blue        |
| Building Management System (BMS) – Input Point | (Normal)            | True Yellow (ICON) |
|  | (Open)              | Light Blue         |
| (BMS) – Output Point                           | (Normal)            | Blue               |
|  | (Open)              | Flashing Red       |
| Card Reader & Electric Lock (DCU 1/ 2)         | (Normal)            | True Yellow (ICON) |
|  | (Open)              | Pastel Blue        |
|  | (Alarm)             | Red                |
| Electric Lock Control (DCU-2)                  | Normal Open)        | Blue               |
|  | NormalClose)        | True Yellow (ICON) |
|  | Manual Open by key  | Green              |
|  | Manual Close by key | True Yellow        |
|  | (Tamper)            | Pink               |
|  | Held Open)          | Deep Red           |
|  | Force Open          | Red                |
|  | Interlock Error     | Deep Pink          |
|  | Lock Jam            | Deep Purple        |

### 3.1 OPEN MAP



Click onto the icon on the left to Open the map files that need editing. Use the open-window on the left to search for the files needed from the MEGAsys listing.



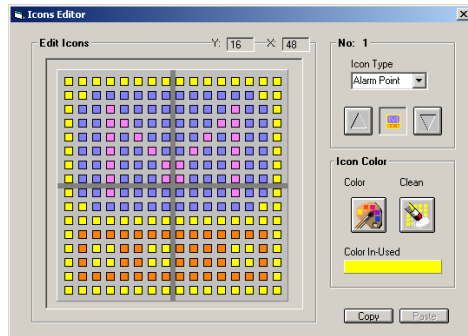
C:\MEGAsys\file name.bmp

- ❖ The master plan generally set as SITE.BMP. User can change the file name, please refer to the manual Chapter 4 section 4.61. Only need to enter the file name, no need of the file type. Example: file name is "SITE.BMP", you only need to enter file name "SITE".

### 3.2 EDIT MAP



Within the MEGAsys, there is a map editing software, which can provide a 16 x 16 dot matrix icon editing window, which can store 16 x 32 different graphic icons for operator to use. User can design his own set of suitable operating icons within the [Edit Map], and use the mouse to select and edit each of the function.

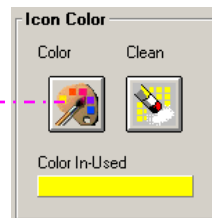


- Types of graphic icon  
The system has a total of 18 graphic types each can store 32 icons.

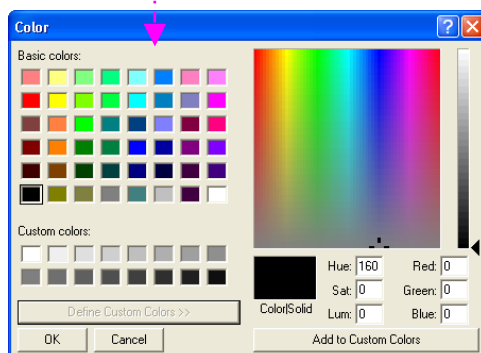
- ⇒ Alarm input
- ⇒ Output control
- ⇒ Scanner
- ⇒ Standard Pan/ Tilt/ zoom control
- ⇒ Pan/ Tilt Preset positions
- ⇒ Access card reader
- ⇒ RTO intercom Panel
- ⇒ Link Map
- ⇒ Camera (TCP/ IP)
- ⇒ Lift/elevator Control
- ⇒ Door Lock
- ⇒ Shell/ Link
- ⇒ DVR
- ⇒ MACRO Link
- ⇒ Video Server
- ⇒ Audio in/output
- ⇒ Analogue Input
- ⇒ Intercom

- Copy – make duplicate copy of icon created
- Paste – icons being copied

❖ *About Copy and Paste info, please refer to MEGAsys quick manual Ver.2.3 (For MEGAsys Ver.3.xx)Chapter 5 editing steps.*



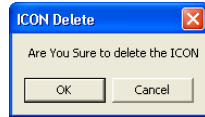
- Icon editing  
User can select the existing icons or to create new icons. Can use the 16x16 dot matrix to form the icon, add/modify colors by using the mouse to click and create.



- Color selection  
To select the color needed, one must use the mouse to click onto the color to be added to graphics. Use black color to delete or to represent no object.
  - ⇒ when color is deleted, it will display black
  - ⇒ Advisable not to use [red, black, blue & yellow] for representation.
  - ⇒ Use the clean button to clean and erase.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual



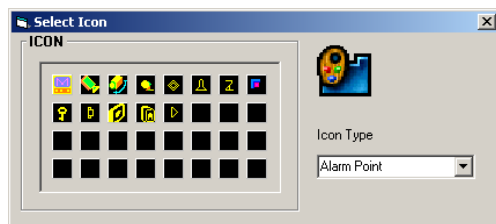
- **Delete**  
When window – ICON Delete appears, press down the **OK** button, to delete the edited ICON; press the **Cancel** button to show give up on deleting the ICON.

❖ *Please refer to the MEGAsys system quick manual Ver.4.3 (For MEGAsys Ver.4.xx) on the editing functions.*

### 3.3 ICON INSERT



Utilize the system icons or the user-create icons, to insert into all the Sub-plans of the system.



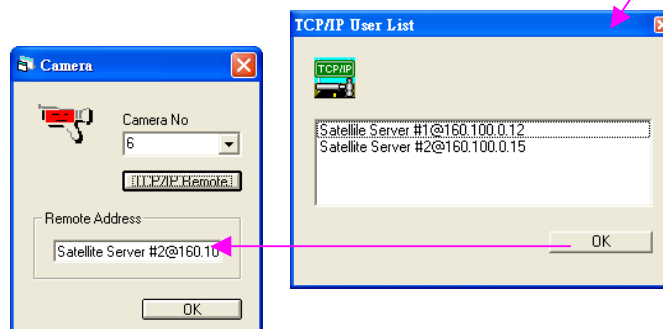
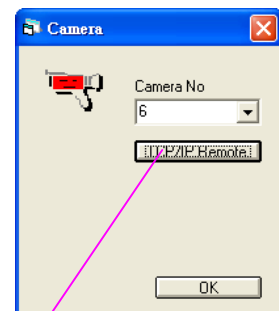
After all the icons are ready, the user can press the [Insert Icon] key to select the icon from the window, and then apply the specific icon to the different part of the plan. There are altogether 18 different icons to choose from.

*Steps of how to input icons into the secondary plan, please refer MEGAsys system software quick manual Ver.2.30 (For MEGAsys Ver.3.xx) Chapter 7 on editing steps.*

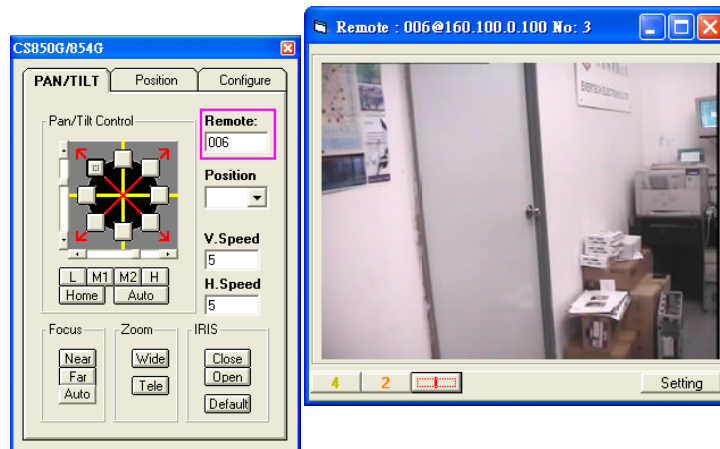
#### Icon Operating Window:

##### ❑ (Camera (TCP/IP))

- **Camera No** - input the selected Satellite Server with the Camera No.
- **TCP/ IP Remote** – press the key on the window of – TCP/ IP User List, where all the network links are being listed with the user computer's user address. Select from the list which computer which need to be linked and then press the OK key. Afterwards, input the camera number into that selected address.
- ❖ *User's computer system must be connected to the network before pressing the TCP/ IP Remotekey. Otherwise, the selected camera No. will only direct back to the camera within the user's own internal system. Also, if the user does not press the TCP/IP remote key, the system will also be directed back to his own system camera.*



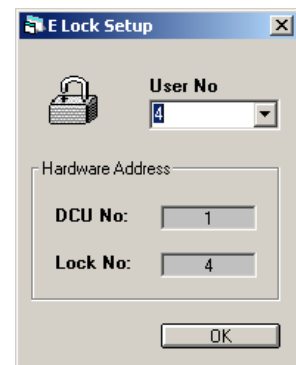
- ❖ When the user input the network cameras into the map, double click of the icon Main server the system will search thru the network for the server which belongs to this particular server and send back the back the ma to the main server. Different cameras will be displayed differently. The below is any example, showing Remote number 006 at a distant IP address site.



### ❑ Door Lock

If the user utilize the door lock system he must insert the icon into the map for display purpose.

- Lock No. – say (1-128) °
- Lock Description – sue some simple description of the door.
- DCU No. – is the DCU serial number, auto generated by system and cannot be changed.
- Lock Group No. – is for identifying which lock group this DCU belongs to, auto generated by system and cannot be changed.
- ❖ After inputting all the data press the OK key to confirm and then press Store Icon to complete this step.

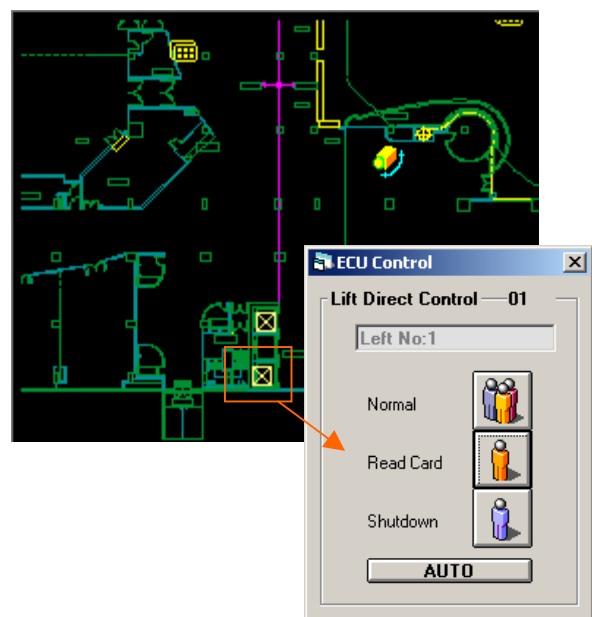


### ❑ Lift Control

If there is lift(elevator) being used with the system, user must input the icon into the map for display purpose.

Press the lift key, this window will appear on display

- Normal status – press this key and the system will return to normal status(e.g. work hours)
- Read card status – press this key, the system will enter into the read status. All user must have their cards read before allowed to enter
- Close status – press this key, the system will go into close status immediately.



# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

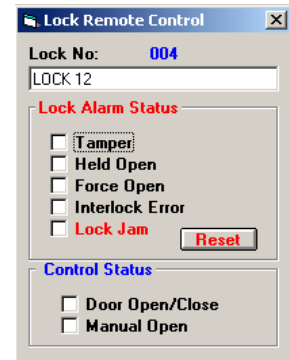
### ❑ DCU-2 electric lock control device

If the electric lock generate an alarm(i.e the icon start flashing) the user can press the icon on the map and the display will show a window – Lock Remote Control °

Different code to represent different alarm status

| <b>DOOR LOCK</b>         |  |              |
|--------------------------|--|--------------|
| <b>Lock Alarm Status</b> |  |              |
| Tamper                   | Door lock could have been opened   | Pink         |
| Held Open                | Door lock open beyond time limit   | Deep red     |
| Force Open               | Door lock has been force opened  | Red          |
| Interlock Error          | Door lock group generate errors  | Deep pink    |
| Lock Jam                 | During door open lock has been damaged or stuck in the middle causing abnormality. | Light purple |
| <b>Control Status</b>    |  |              |
| Door Open/ Close         | Normal open or close   | Blue/ yellow |
| Manual Open              | Door being open/lock by key  | Green/yellow |

Table 3.3.1



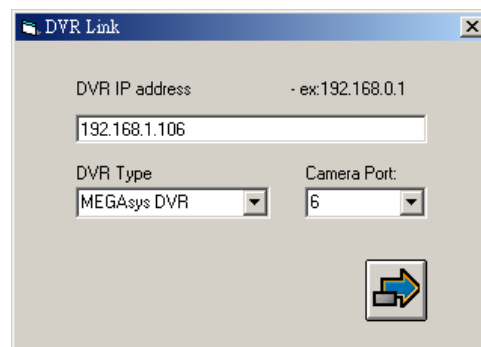
➤ Press the **Reset** key, can set the icon and color back to normal status.

❖ For more info, please refer to the Quick Start Manual (For MEGAsys Ver.3.xx) Ver.2.3Chapter 16 section VI about DCU-2 operation.

### ❑ DVR (digital video recorder)

Follow the below steps for inserting DVR functions:

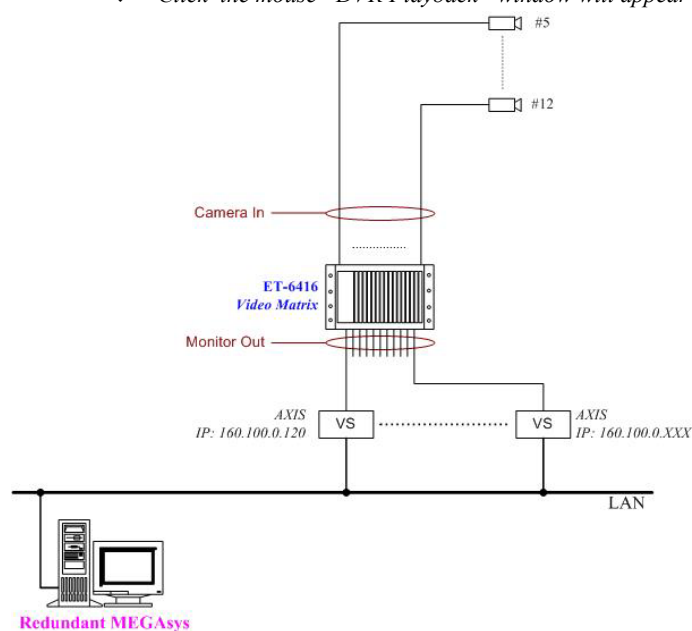
1. Press the “Insert” Icon, on the selected type of DVR, and the “DVR Link” window will appear
2. Input the IP (e.g. 192.168.1.106) into the DVR IP Address square(as diagram 3.3.1)
3. Then select DVR type within the DVR Type box i.e. “MEGAsys DVR” and “GV800 DVR”.
4. Select Camera Port within the box e.g. #6 DVR Camera Port.
5. Pres the icon at lower right to input the info



If selected “MEGAsys DVR”, steps to set the function are as below:

- Click the DVR icon on the map, the “DVR Remote: 192.168.1.106-06” window will appear. If the system is connected to camera, the DVR Remote window will appear with the video window.

- ❖ Click the mouse “DVR Playback” window will appear



<Figure 3.3.1>

- ❖ Please refer to the below two attached document on how to palyback the recorded video.

If the DVR icon belongs to the type of “GV800 DVR”, steps to use the DVR function as below:-:

- Click onto the DVR icon on the map, “MDVR 192.168.1.106-06” window will appear, if already connected to Camera, user will be able to see the DVR Remote window with video appearing immediately.



### APPENDIX 3.3.1: USE OF DVR ICON AND FUNCTION

### APPENDIX 3.3.2: HOW TO OPERATE THE DVR PLAYBACK FUNCTION



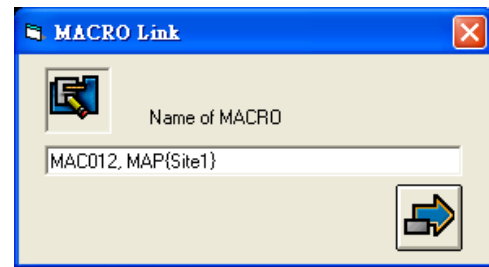
### Macro Link

Enter into Macro Link function steps as below:

1. Click onto "Insert" Icon, on the type of selected Macro Link, the related window will appear.
2. Click onto the box of the Name of MACRO and then enter the Macro program, e.g. MAP{TOWER2}.

To use the Macro Link function, step as below:

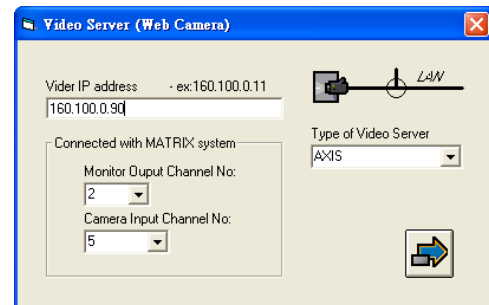
1. Click down the Macro Link icon on the map, the system will execute the preset Macro actions.



### Video Server

Enter into the Video Server functions as follow:

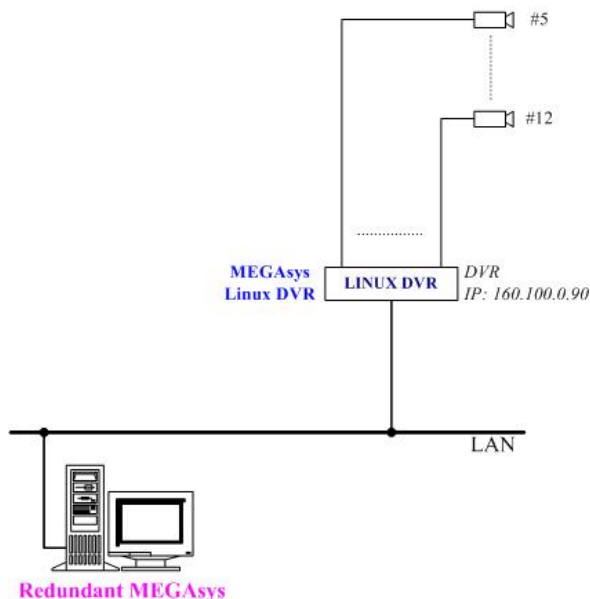
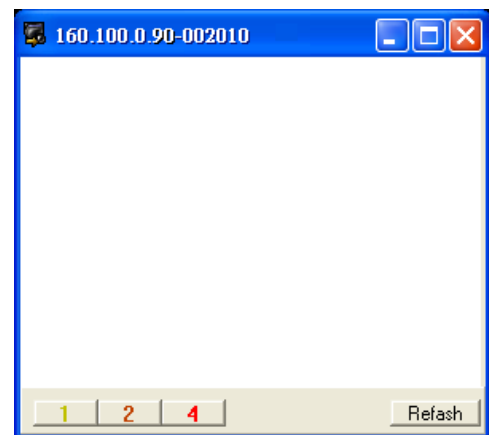
1. Click once on the "Insert" Icon, select type choose Video Server, window of "Video Server (Web Camera)" will appear.
2. Select at the box – type of Video Server: select (say) AXIS, as <Figure 3.3.2> °
3. Enter Video IP Address(e.g. 160.100.0.90) into the Camera Port.
4. Select Matrix of Monitor Output Channel No <Figure 3.3.2> °
5. Select Camer No. on the page of Camera Input Channel No. As shown on <Figure 3.3.2> °
6. Right click on the icon to enter the data



Steps sot use Video Server as below:

1. Clcik down the icon Video Server, screen will show a window which belongs to this IP.

- ❖ There are 3icons at the left side lower corner click 1 the system will take 1 photo, press 2 or 4to request the system to take 2 and 4 photos.



<Figure 3.3.2>

### □ Audio

*If the user need to install the audio device onto the system, the appropriate icon need to be insert on to the map for display (as shown on the right).*

1. *Input No – after selecting the audio device number (1-640) , click **OK** to confirm.*



The left window will appear when user select and click onto the Audio control icon on the map.

1. Audio input name – enter the name of the audio input with a name, which must be pre-enter into the system before it can be displayed.
2. Audio input selection box – click here to select the desired audio channel. User can select more than one channel at one time. Once channel selected, that particular channel will be flashing with white letter against a blue background. And the selected audio icon will also change from yellow to red and continue flashing.
3. When All Off – are being click onto, the system will shut off all the selected audio channels.

# MEGAsys – Server

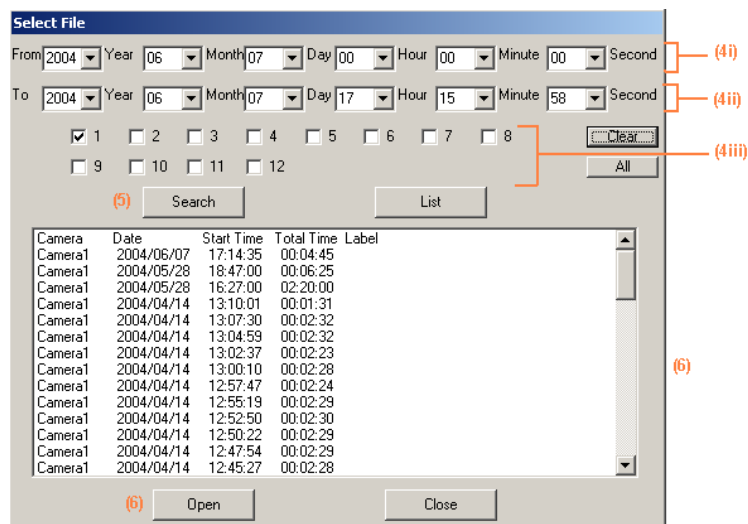
## Graphic Alarm Display System Software Programming Manual

### Appendix 3.3.1: Use of DVR icon and function

Add the DVR icon onto the map and then click on to it, the user can see the selected camera from the point of site at real time.

Operating steps:

1. Click the DVR icon on the map.
2. The selected DVR icon will appear on screen with the point of site video images.
3. Double click onto the site video, the “Select File” will appear on the window.
4. Select the DVR video channel from the Select File window (as on the right) and then select from which date to get the video recording .
  - i. Select the start date and time (year/month/date/hour/minute/second).
  - ii. Then select the end date and time (year/month/date/hour/minute/second).
  - iii. Then select the video channel needed to monitor (CH#1 ~ CH#16), from one to many channels.



5. Per step 4 above, click onto the [Search] and the record video will be displayed on the below .
6. The selected video file can palyback for 4 minutes once the [Start] is being click.
7. DVR Playback widow will start the display of the video needed.

### Appendix 3.3.2: How to operate the DVR Playback function

- i. File – search for the video file .
- ii. Alarm – list out of event alarm file.
- iii. PrevSeg/ NextSeg – review of the video file (the one before or the one after)
- iv. Play – start playback of video images.
- v. Backward – return to the previous playback video
- vi. Pause – temporary halt of playback
- vii. Snap – take one shot of the desirable mages
- viii. Tag – to look up the already labeled video files
- ix. Add Tag – insert bookmark on the video files
- x. Speed – modify the speed of palyback

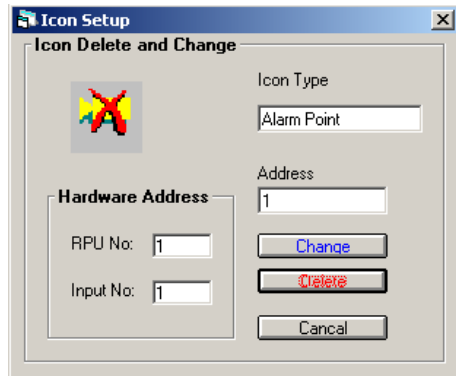


### 3.4 Icon Delete



This is for deleting the already created icon data. Once the Icon Setup delete the pervious map created from the (EDIT PIC), it allows the user to also delete the defined icons.

After selecting the [Icon Delete and Change] window, then select the icons that need to modify or delete.



Steps:

1. Select from the Edit Map [Icon Delete and Change] Window
2. From the (EDIT PIC) find out the ones need to be deleted.
3. Left click on the mouse and the system will show the ones which was selected and then press **Delete** to confirm.
4. If there are no more icon need to be modified or deleted, than store the file to complete this task.

*If the user need to update any of the map icon info, follow the same steps, click onto the [Change] box instead of the [Delete] box.*

### 3.5 MAP SAVE

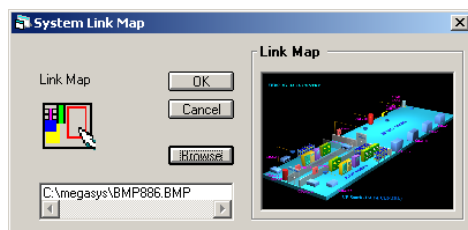


This is an icon for storing the files. After the operator use the(EDIT PIC) to do any of the edit, add, or delete, the final step is to save the latest information into the file for an update.

### 3.6 LINK MAP



After the master SITE MAP is ready, this function allows user to put all the secondary maps back into the site map again.



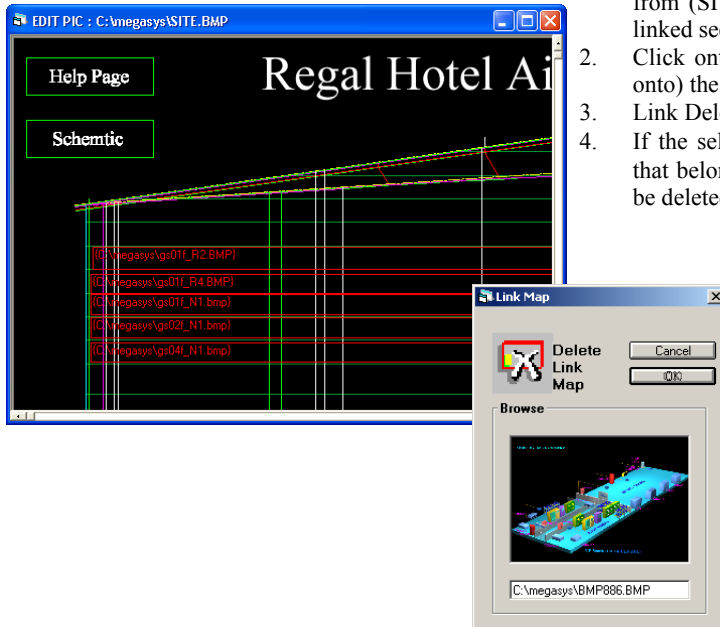
- ❖ *Please refer Chapter 6 of the MEGAsys system software quick start manual Ver.2.3 (For MEGAsysVer.3.xx) for more details on Map Link.*

### 3.7 LINK DELETE



Steps to delete the Map from Link:

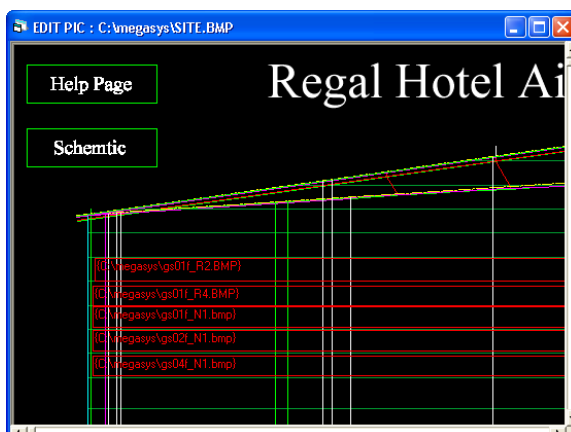
1. Enter into (Open Map) and retrieve the master map file from (SITE.BMP). The window will show all the already linked secondary maps on window.
2. Click onto the Link Delete icon and then select (by click onto) the map one decide to delete from Link.
3. Link Delete window will then appear
4. If the selection is correct, click **OK to delete** all the maps that belong to this master Map within the red box will also be deleted



### 3.8 LINK MAP DISPLAY



In order to show the maps already hidden within the system, or to inspect the map location or content details, user can click press the Link Map icon to find out. The master schematic diagram will then display all the location and names in detail.

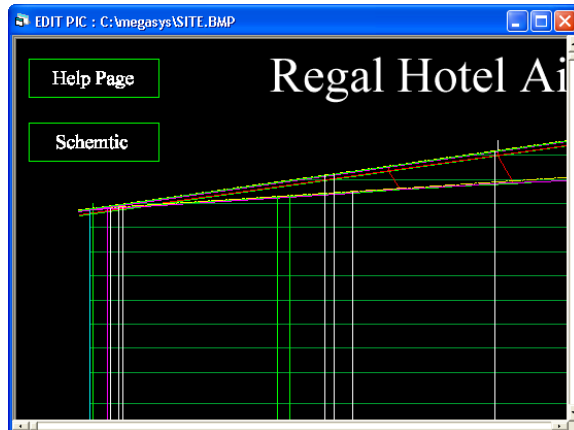


The system will use a long red rectangular box to show the details of all the identified portions ready to display.

### 3.9 Hide Link



If user need to clear the master map, you can use this icon key to hide all the linked maps.

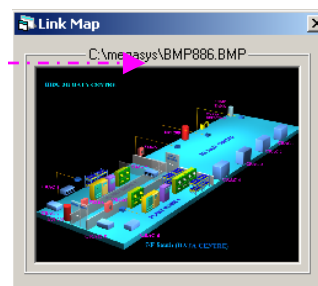
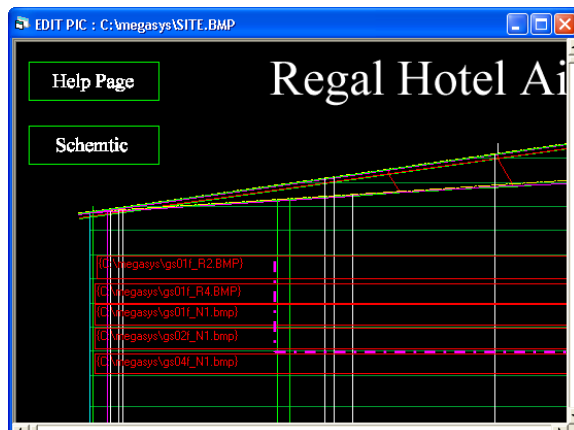


### 3.10 Check Link Map



After opening the SITE.BMP file, user can click onto the icon/box to find out all the details info with the link maps.

Left click the mouse onto the red box one can find out the details about the up-linked map.



## Chapter 4 System program parameters



Press the [system program] on the main menu – System Parameter function will appear, with altogether 15 difference functions for the user to do programming and or to change or edit any of the parameters with MEGAsys – GADS system.

### 4.1 Edit Camera Parameters



MEGAsys system can use any of the cameras (e.g. fix cam, PTZ cam, hi-speed doom with auto focus...)all can be identified with a cameras number, which will act as the address of the camera for user to refer to. Afterwards, user can refer to the camera number to send action instructions, input more information, and/or to edit the operating parameter. To enter this function, click the icon with the mouse right key.

#### I. Input Parameters into Camera



This allows the user to edit the camera name, model number, and the protocols of the PTZ type of camera, and can also preset the time, location, and the output Macros.

Normally 2<sup>nd</sup> line 1<sup>st</sup> row

Normal 1<sup>st</sup> line 1<sup>st</sup> row

#### ❑ Camera number

Assign the camera number such as 001-640, this number must be consistent/same with the terminal number at the matrix controller.

#### ❑ Camera label name

Overlay label name onto the camera image must use capital English letters 24 or use the WINDOWS 95/WINDOWS 98 operating system to input the Chinese (ping yin ) in English letters. Afterwards, user must return the system back to original English version of WINDOWS95/9/ NT format.

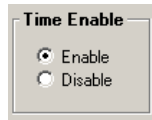
#### ❑ PTZ platform programming

The PTZ platform and the camera must use different ID numbers in order avoid the (max 256 address) limitation. Within the 640 camera numbers, one can freely assign the number for the camera with the 256 remote protocols numbers. From 000 to 256, PTZ platform can be input with the an assigned number, which is different with the camera number.

❖ *If number is set at 000, this means the PTZ is not being in use.*

### ❑ Defining the camera location

User must overlay a location label in order to display the camera position, starting with 02 for the line and 01 with the row (starting with other numbers will affect the camera location). Normally, start with 2<sup>nd</sup> line and 1<sup>st</sup> row.



### ❑ Display the camera time

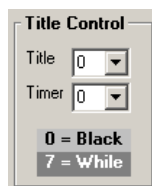
User also has to overlay the clock display position, start with 01 with the line and the row (normally set 1<sup>st</sup> line and 1<sup>st</sup> row).

### ❑ Display control labeling

To display the different cameras, the user need to insert the selected camera ID label to overlay on top of it.

### ❑ Time control display

To overlay the camera clock time, the user has a choice of display it or not to display it.



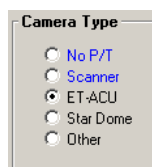
### ❑ Grey color control (for label)

To overlay label onto the camera image and time indicator, user must adjust the grey color from 00 to 07 (00 means black and 07 means white) adjust the grey color with value in between 00 and 07.



### ❑ Mimic Map Name

Installed camera location within the entire system need to be set up properly. If the camera is installed at location 1F, we also need to define this location at Mimic Map also as 1F, and refer to the created map file within the system also as ( 1F ). User need to input 1F into the map in big capital letters.



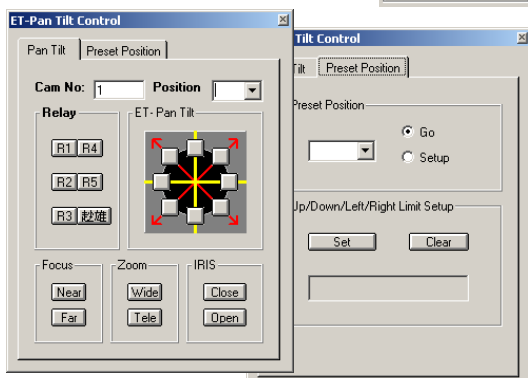
### ❑ Types of PTZ protocols

If the installed camera is a PTZ platform, the user must select the specific protocols from here. There are 5 different types for the user to select and then to install.

Amongst all, the ET-ACU is the most common protocol for the PTZ cameras. Altogether there are 6 signal outputs, 10 preset position rotating platform, 3 camera positions, and 16 anti-tamper alarm input devices. Per these functions, the user can choose to buy different model of PTZ utilizing slightly different protocols.

ET-ACU model numbers are as below:

- ET-50
- ET-100
- ET-200
- ET-300

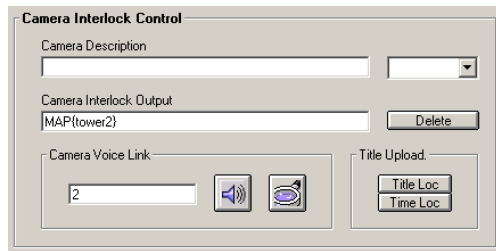




# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### APPENDIX 4.1.1: OTHER SPEED DOME SETTINGS

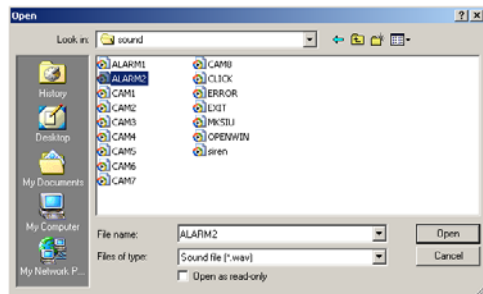


#### ❑ Camera Interlock Control Program Parameter

Through the camera icon on the floor plan of the Mimic Map, the MEGAsys can program camera output and Macro commands to enable any remote interactive security actions.

The first line is for inputting the camera alarm message, of which the user need to display when the alarm is actually being activated (total 14 words) Example: to display “ACTIVATE CAMERA LIGHTING” the user need to program the camera output as 001 to the alarm signal collector terminal port.

The second line is for Macro program input and interlock camera output to the controller device to achieve this function. Example: user need to program the camera output as 001 to the control device, activate the light when interlock receives the output command as “ACU 001 OUT 0001”.

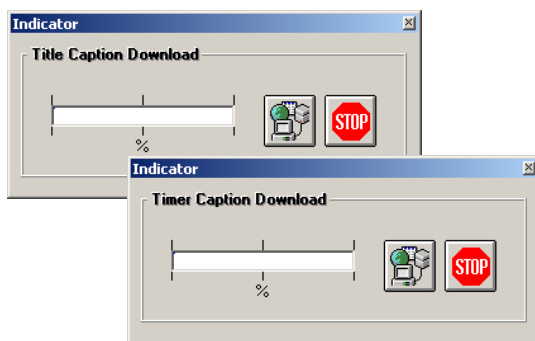


#### ❑ Voice Broadcast of the Camera Interlock

If the user like to select voice output to broadcast when the camera is being activated, the user need to click onto the “Look in” of the sound file to select the voice message, press **OK** when selection is made to complete.

Steps as below:

1. User can use WINDOWS95 to provide the voice recording software and then store the recorded message MEGAsys system file.
2. When there is a need to edit the voice message , retrieve the file from MEGAsys again.

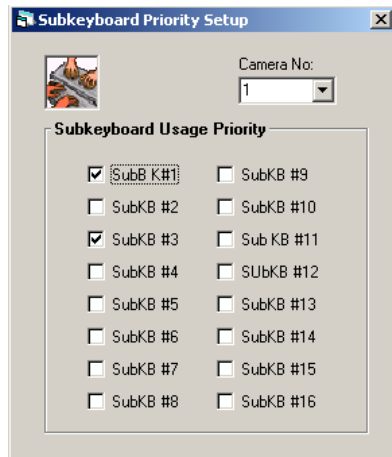


#### ❑ Copy the Voice Message to Matrix

First need to select transmit mode by “position” or by “clock” .

- Position display – must first input “Camera label”, then the “Indicator” window will appear.
- Clock position – must first select “Time display position”, before the “Indicator” window will appear
- ❖ *To program the macro commands, pls refer to MACRO Menu programming manual Ver.1.0 (For MEGAsys Ver.3.xx)*
- ❖ *Select the label – clock to be send together, please refer to this manual 4.1.VI*
- ❖ *Double click onto the camera label, to select sending the label to the matrix.*

### II. Camera Control Authorization Levels

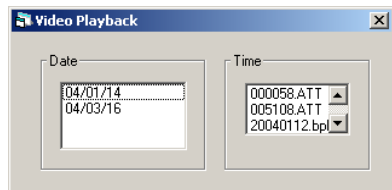


Within the entire system, if the slave control keyboards have been installed, then all the cameras can be controlled. But in order not to affect the work of the central control room, the user must prioritize all the keyboards in the entire system, and then program them accordingly.

Example:

To allow camera No. 1 to be also controlled by sub-keyboards 1, 2, & 3, the user need to click onto the keyboard slots on the Left. Select only the ones needed and just ignore the rest.

### III. Video Playback



During the programming of the entire operating system, user can use the digital recoding function to record all the important events into the computer's hard disk drive, and then perform the palyback, output into other record format or print out of the still picture.

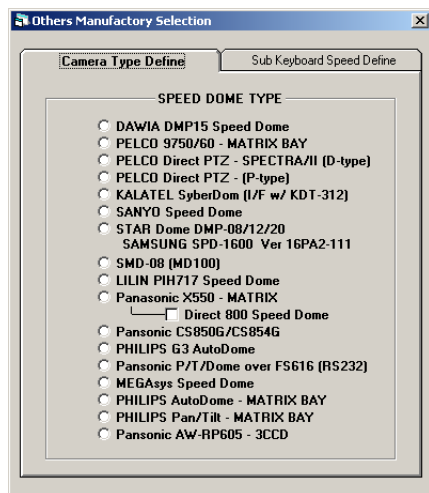
The system records the important Alarm Event video onto the computer hard disk with a daily event log, as shown on the left. User must select the date of today, and from then onwards, all the video recording will be arranged in order of the date. Future playback will be easy by selecting the event by the date and time listing.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Appendix 4.1.1: Other Speed Dome Settings

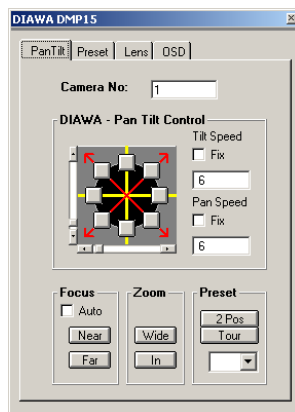
If the first 4 protocols are not suitable for the speed PTZ dome camera the user has installed, then he should search from the “Others” listing as below, where many of the different brands of major camera suppliers are listed.



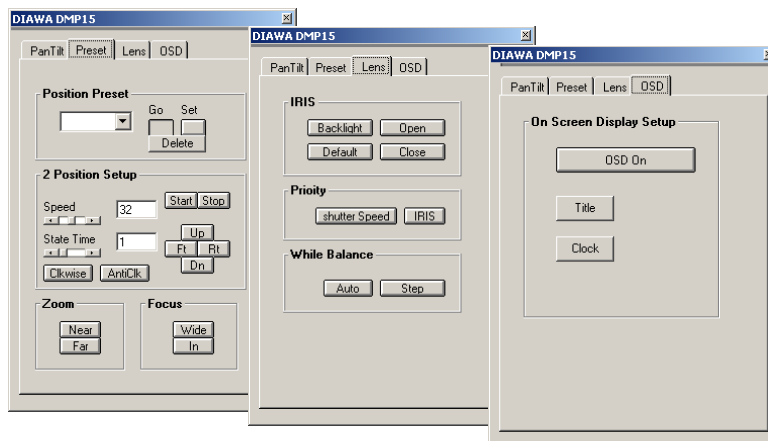
“Other Manufactory Selection” window’s first page has (Type Define) for user to select the appropriate protocols. The second page is for (Speed) selection, as different PTZ camera runs on different revolving speed.

❖ Please refer to Chapter 20 Attach F for more about setup and change of PTZ decoder speed.

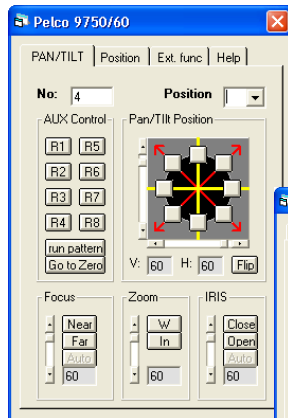
#### ❑ DAWIA DMP15 Speed Dome



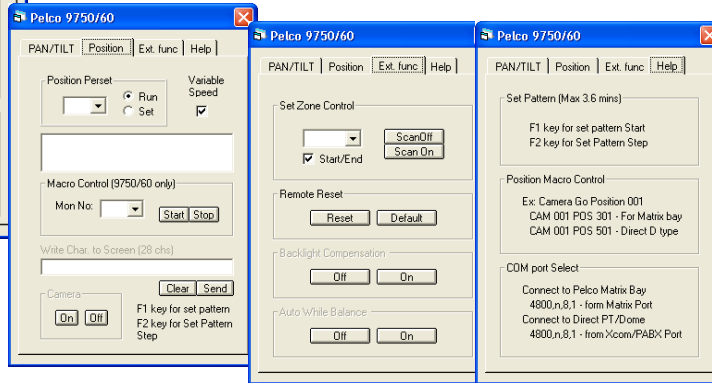
User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.



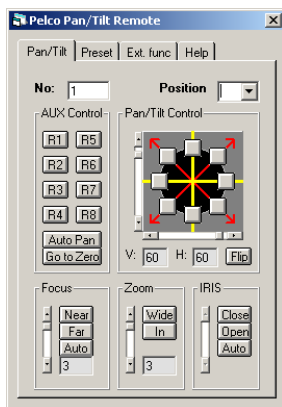
### ❑ PELCO 9750/ 60 – MATRIX BAY



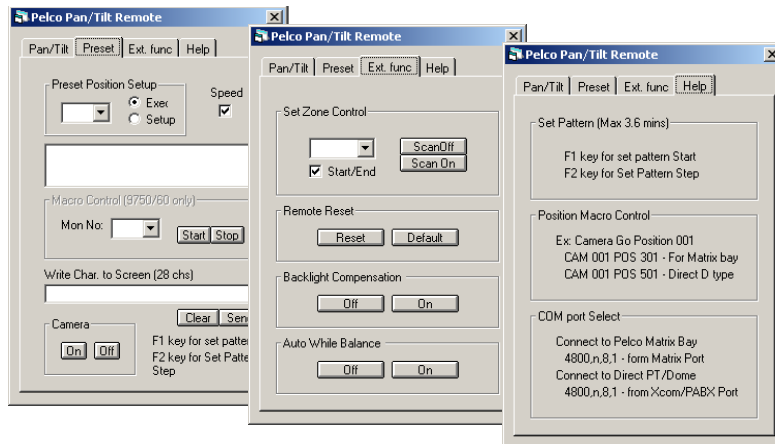
User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.



### ❑ PELCO Direct PTZ – SPECTRA/II (D-Type)



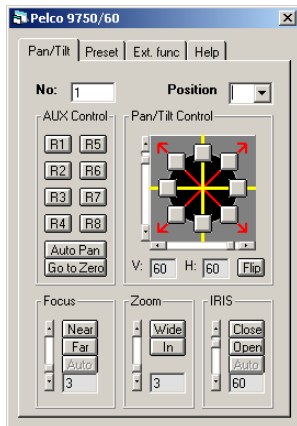
User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.



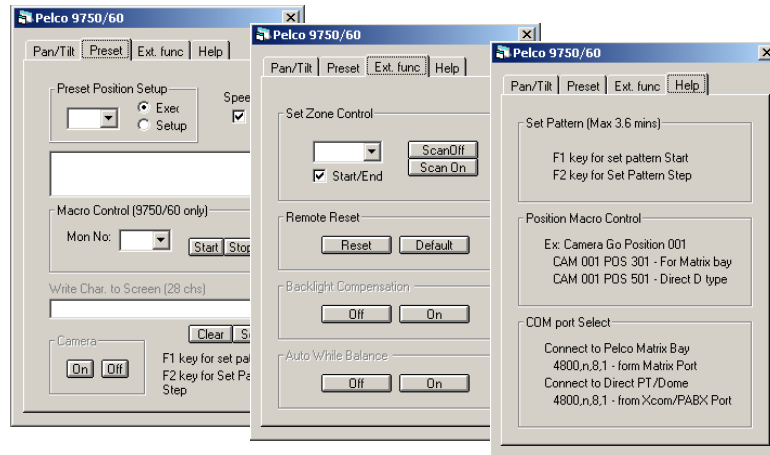
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### ❑ PELCO Direct PTZ – (P-Type)



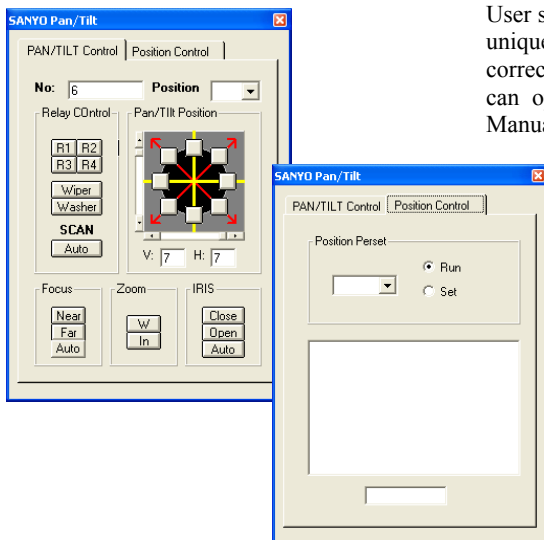
User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.



### ❑ KALATEL Cyber-Dome (I/F w/ KDT -312)

❖ *If user selected this Cyber-Dome, please contact supplier of Cyber-Dome*

### ❑ SANYO Speed Dome

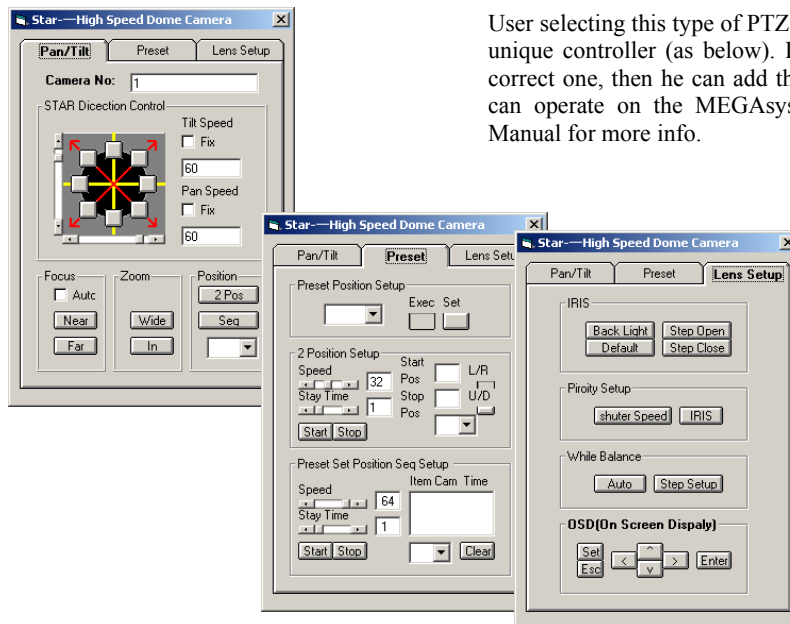


User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

# MEGAsys – Server

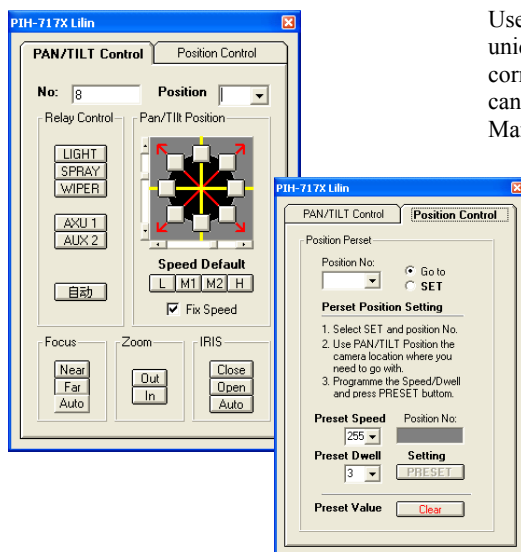
## Graphic Alarm Display System Software Programming Manual

### ❑ STAR Dome DMP – 08/ 12/ 20 (SAMSUNG SPD –1600 Ver.16PA2-111)



User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

### ❑ LILIN PIH717 Speed Dome

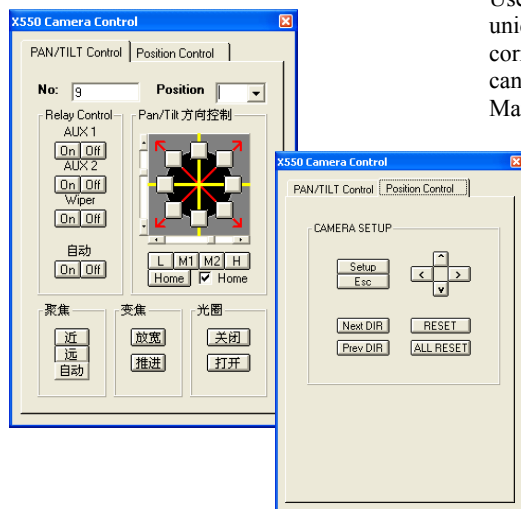


User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

# MEGAsys – Server

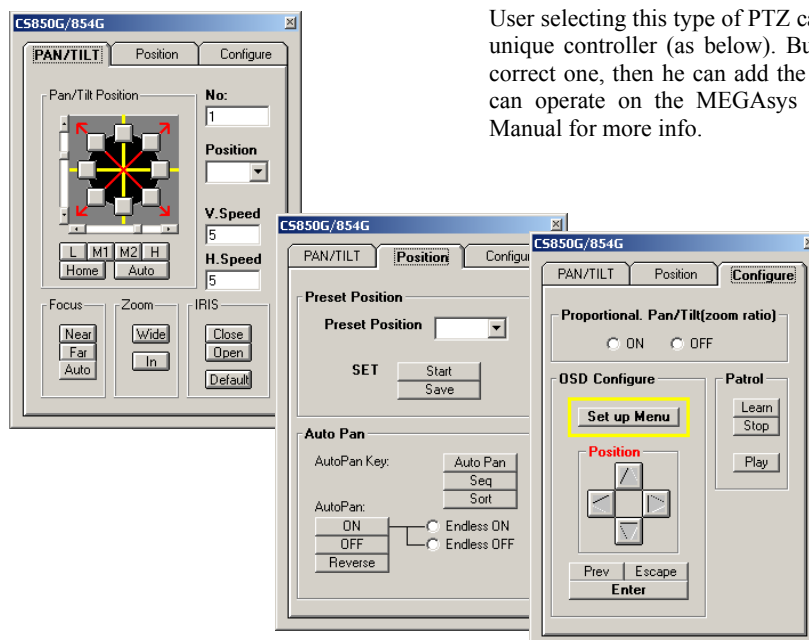
## Graphic Alarm Display System Software Programming Manual

### ❑ Panasonic X550 – MATRIX (Direct 800 Speed Dome)



User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

### ❑ Panasonic CS850G/ CS854G

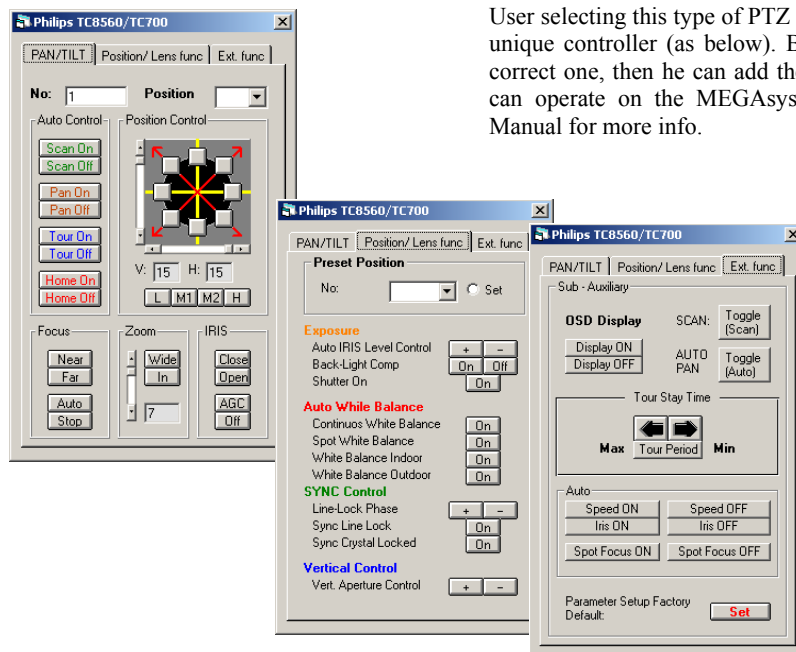


User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

# MEGAsys – Server

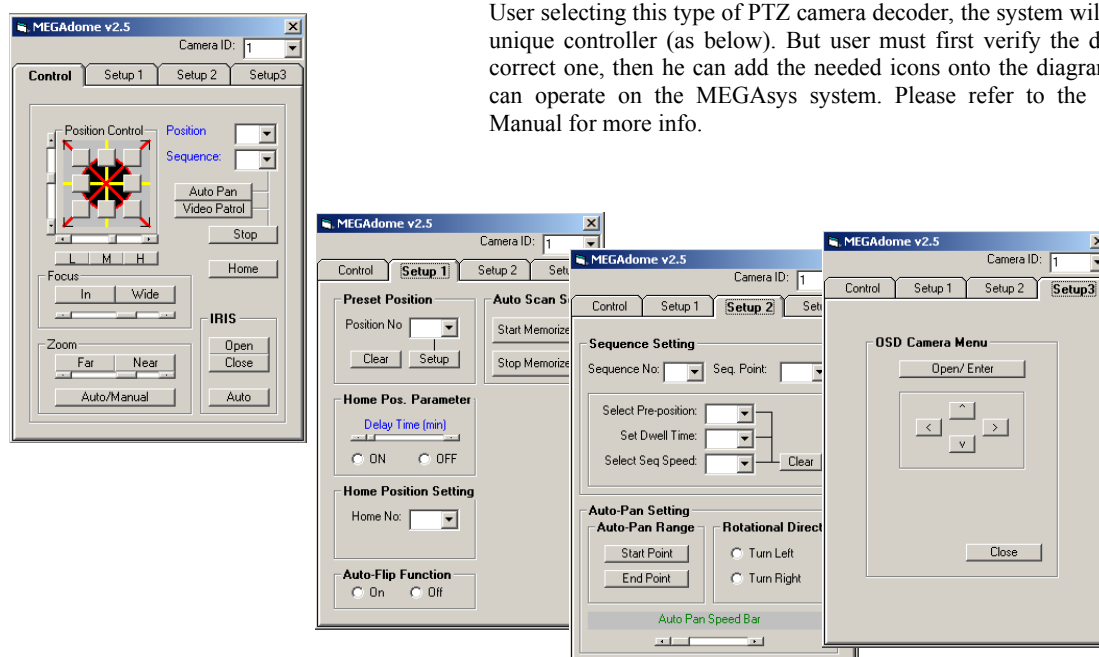
## Graphic Alarm Display System Software Programming Manual

### ❑ PHILIPS G3 Auto Dome



User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

### ❑ MEGAsys Speed Dome



User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

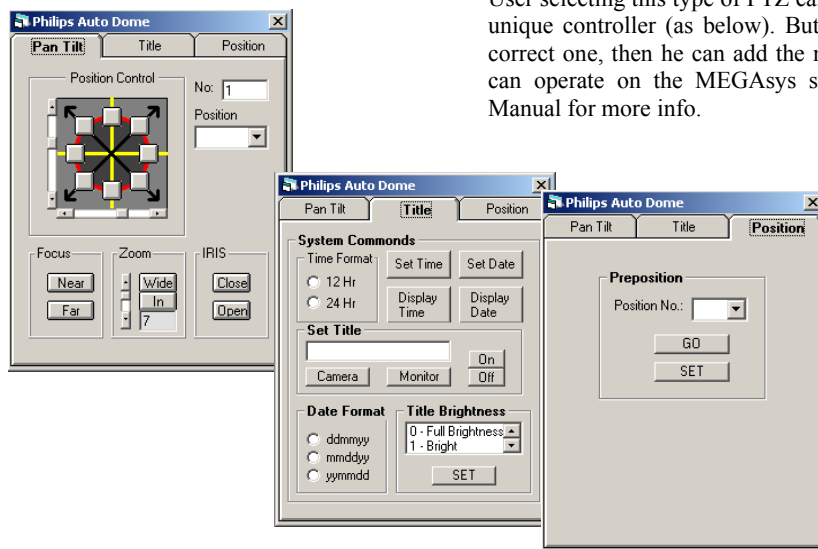


# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

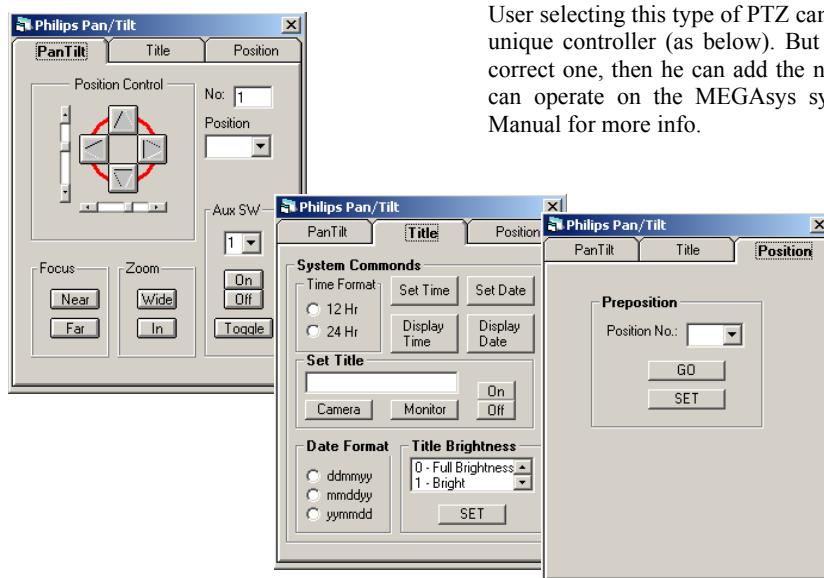
---

### ❑ Philips Auto Dome – Matrix Bay



User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

### ❑ Philips Pan/Tilt – Matrix Bay



User selecting this type of PTZ camera decoder, the system will provide an unique controller (as below). But user must first verify the device is the correct one, then he can add the needed icons onto the diagram before he can operate on the MEGAsys system. Please refer to the Quick Start Manual for more info.

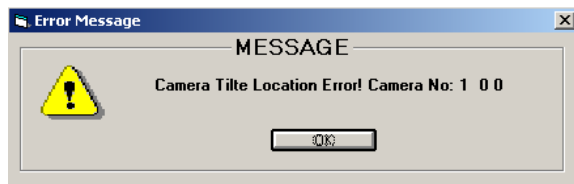
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

### Appendix - Error Message

The below is system error message appearing when entering steps: [system program parameter]> [camera parameter]>[camera input parameter].

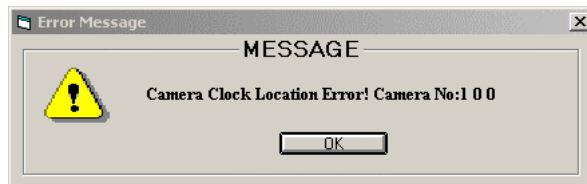


System error message: **Title Location Error...**

Reason:

Due to operator has not selected the “camera location” properly when doing the camera programming. This location cannot be at 0 line and 0 row.

The below is system error message appearing when entering steps: [system program parameter]> [camera parameter]>[camera input parameter].



System error message: **Camera Clock Location Error! Camera No.1**

Reason:

Due to operator not yet properly set the camera parameter in camera edit window, when selecting camera clock location, as the location cannot be set as 0 line and 0 row.

## 4.2 Monitor Setup

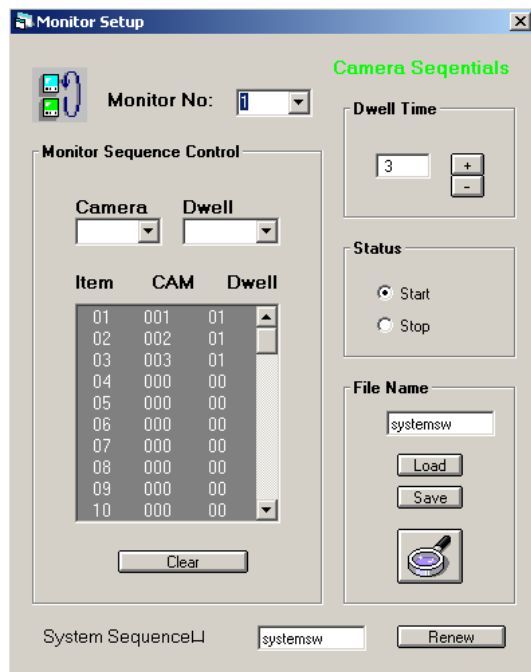


All the monitors being used within the MEGAsys system all are equipped with the monitor number (001-160), which is like an address, and allows the central computer to output control commands for proper operation, or to input more info and data.

### I. Time Program Setup



In order to program the system to carry out a time recording on multiple channels, it is necessary for the user to select the specific camera (or camera groups) and then to define the monitors which such video signals will be output to with preset period of time to monitor and record.



#### ❑ Monitor Number

Numbers can be used: 001-160. The numbers assigned here must be same as the Chinese Matrix monitor numbers. Enter monitor into this pop-up window and then click the cursor arrow onto the below items:

#### ❑ Sequential Time Table

##### ➤ Select the item number

User must click and enter the dwell time of each camera one by one within this table, (the number will turn Blue color). Then, the cameras with the MEGAsys system will operate as per the sequential dwell time specified.

Example:

Item #01, Camera #2, Dwell time #1°

##### ➤ Camera number

Camera numbers can be assigned from 001-640. Enter the camera number to be sequence input to different monitors. Camera number need to be the same with the ones input into the Chinese Matrix. User can enter any other camera number (which need to be exchanged into system) re-enter item number 02, and then the camera number, or re-enter item number 03....one by one, so on and so forth

##### ➤ Time

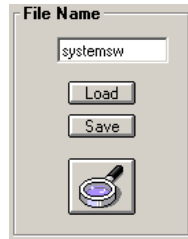
User can select any camera, and specify the monitor dwell time (using second as the time basis). The calculation table is as below.

#### ❑ Dwell time

This time means within the same monitor, (user need to define) the duration time of video display every camera will dwell (or stop) upon. As shown on left, the dwell time is 3 second, for cameras to stop onto the monitor 01.

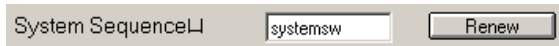
#### ❑ Time Sequential Work Status

Once into the functional window, user can select if there is a need for the monitor to (start/stop) sequential programmed monitoring



### ❑ File Name

User can program a set of monitoring sequence file according to the system need. Different monitors can use a different sequence for each of the monitors. The file name for each monitor supplier is "SYSTEMSW".

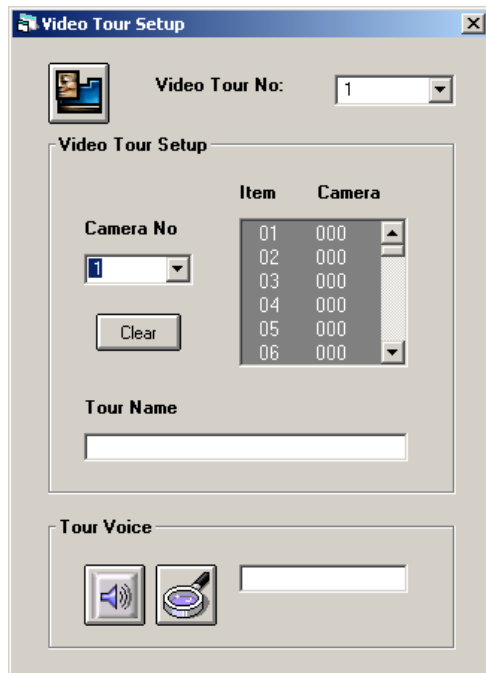


❖ At the bottom of the window, user can select the file name and change the time sequence any time, by pressing the [Renew] button will complete the Sequence program.

## II. Video Tour Setup



The CCTV management section must ensure the system camera direction, position, and its monitoring program is properly set. For many other systems, it needs to be set with each camera one at a time. MEGAsys allows a quick setup by the following method.



### ❑ Video Tour Group Number

This number group starts with 01 to 99. User can click the arrow onto the box to program the Tour Group.

### ❑ Video Tour Time Table

#### ➤ Select Tour Number

Click onto the Video Tour No. (number will turn blue). Then, select the camera number, until the number change. MEGAsys system will follow the defined sequence to execute the Video Tour Sequence,

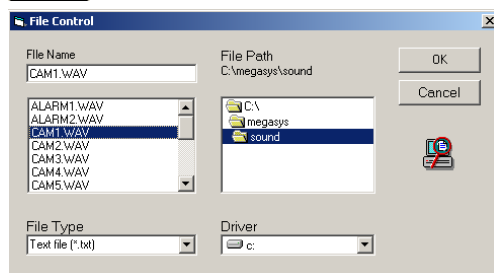
Example: Item #01, Camera #05

#### ➤ Camera Number

Start from 001 to 640, user can enter the camera number that need to setup for video tour (remember this number must be same as the camera number inside the Chinese Matrix system). By repeating the item number (say Item 02) user can assign more camera numbers into the same program.

#### ➤ Tour Name

User can add a name into the Tour Group, for reminder purpose. Example: #1 for identifying the group of "G/F CAMERA". Every time, when user activate the Group #1 the "G/F CAMERA" will start the programmed work.



### ❑ Voice Broadcast for Video Tour

When the system carry out the Video Tour, the user can use a pre-programmed voice message to broadcast. Use the Magnifier icon to look for the voice message file.

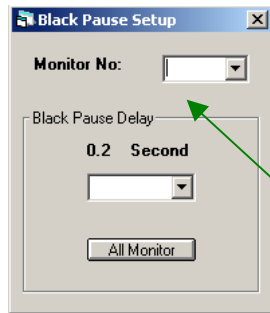
Steps as below:

User can first create the voice file using the WINDOWS software to complete the voice recording and then store this voice file into the MEGAsys listing. When the file is needed, retrieve from the system..

### III. Black Pause



For the large scale CCTV deployment, it is important to achieve compatible/ concurrent operation on the monitoring system. This technique is made possible by shutting off (BLACK OUT) the video display on the NON-concurrent signals, turn them back on when they become concurrent again. MEGAsys system uses the screen black up method to achieve this result.



#### ☐ Black Pause Timing

Due to the different quality of equipment and device, some need longer and others need short period of screen black pause time. MEGAsys can adjust this timing from 0.02 to 1.28 second. User must test this in order to achieve the best result.

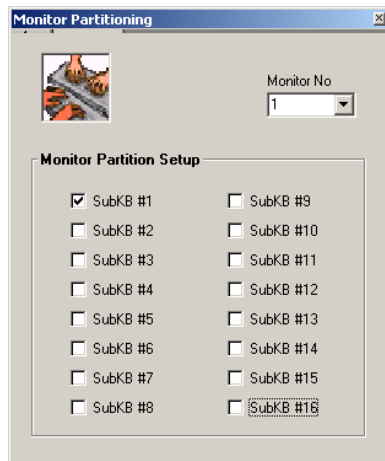
❖ Select "0", means to stop the Black Pause process.

1 = 0.02 sec  
2 = 0.04 sec  
4 = 0.08 sec  
8 = 0.16 sec  
16 = 0.32 sec  
32 = 0.64 sec  
64 = 1.28 sec

### IV. Monitor Control Authorization



If the system has installed with sub-keyboard control, then, these keyboards can also control all the monitors within the entire system. This may some how affect the overall performance of the system. We can use the monitor partitioning to achieve the result of programming the sub-keyboard control.



Example: User can click & program the Monitor to allow 1 & 2 keyboards for the control, (one as slave). Ignore this step is no slave keyboard needed.

### V. Audio Matrix



- ❑ Audio Input Channel
  - i. Input Channel No – provide 640 (1-640) input channels for user's programming use. Each input channel number will allow certain words for programming the (Description), (Interlock Macro Events) & (CCTV Link) .
  - ii. Description – short words/phrase for reminder.
  - iii. CCTV Link – for relating the audio input with the selected video signal input and for sending the audio & video to the specified monitors.
    - Camera – select here the camera which match with the audio video inputs being set.
    - Monitor – select here a monitor which will broadcast the audio video signal programmed.
  - iv. Interlock Macro Events – when certain audio matrix are in use, need to execute the commands per the Interlock Macro Events. .
- Audio Output Channel
  - i. Audio Monitor No – system provides total of 160 (1-160) audio output for user to program. Every channel has an output number with matching (Description) .
    - Description – are words to remind the audio message being programmed.

### 4.3 Input Device Setup



MEGAsys system uses many different external devices for signal inputs. (e.g. CCTV, alarm, fire alert, access control and patrolling keys...etc). In order to identify each of these devices, and understand their working status, MEGAsys provide input addresses for them to program and to allow the main system to transmit operational commands and instructions. User can follow the programming step to input more data into these devices.

#### I. Input Device Program Parameters



This allows user to program the name & description of the input devices, type/model of device, normal on/off selection, monitor's address/position, alarm audio output/macro commands...etc

#### □ Input point address

Select the address from 0001-2048, enter the programmed address, and make sure the selection is same with the external alarm (ET-200, ET-8C500, ET-8C800) addresses.

- Alarm delay – user can select to delay the alarm alert for certain short period of time (0-255 seconds) System will count down from the preset time (say 20 sec) and will activate the alarm when this time runs out.
- Delay Secure mode – this delay can be pushed back at a maximum of 0-255 sec. Setting must be twice the time of duration of the alarm delay time.

❖ *“Alarm Delay” and “Shunt Delay” are the two functions which only suitable on the ET-8C800 Type I/ II devices. Other RPU devices do not have such two functions.*

#### □ Alarm Input Device Type

The alarm system must be clearly identify the type of alarm (CCTV, security patrolling, or building services) so that when alert is being triggered, user can immediately know the alarm type, its effect & how react to it.

1. Need to enter the type of alarm device, by selecting (e.g. infra red sensor, emergency door alarm...etc)
2. Need to enter the security equipment type, by selecting (e.g. patrolling input device, open/close buttons...etc)
3. Need to specify the type of building services device or equipment, by selecting (e.g. water flow meter, time controller, or on/off open/close controllers...etc)

#### □ Work Conditions of Device

Each of the device has a different work characteristics (some are normally open/connected, others are normally close/disconnected) user must be careful in inputting such working condition in order to avoid mistake in the programming of the system. (International security alarm calls for: normal close circuit type).

#### □ Auto Secure/Access Time

There are altogether 32 groups (Zone #1 – Zone #32) of time zones for user to select. Click onto the box until it turn blue, and you can continue to set the input of address to use a certain time zone group.

Refer section II of this chapter for more detail programming.

#### □ Map Name

User must match the map name and number from start to end. E.g. if camera is installed at 1F location, they when

making the 2-D graphic map, and virtual map, the same 1F must be used for consistency and easy to locate purpose.

Alarm Message and Output Interlock

**Alarm Message**  
7/F Main Entry

**Alarm Interlock**  
DVR{210.17.176.148~1}

**Fault Interlock**

Exchange  
[Dropdown Arrow]

Del

### ❑ Security Alarm / Interlock Alarm Output Message

After completing system control of the input device on the map, MEGAsys can also use the same to do the output control with the Macro Program Command interlock output

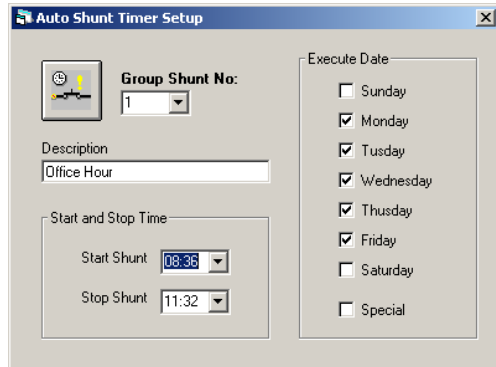
- **Alarm Message**  
This is to enter the alarm input message wording (total 14 words) Example, a open/close magnetic door device being input onto the map at main entrance of the lobby (for alarm display purpose)
- **Alarm Interlock Output Setting**  
This is for the user to program the input device for alarm output. Example: for 001 RPU at 001 output port, need to activate the camera zone lighting, input the interlock alarm output signal, ...etc. User hope to execute Macro Commands, through the programmed Macros to achieve the interlock output functions.
- **Fault Interlock**  
When the input device is being damaged or at fault, need to output the Macro Commands  
When the connecting wires between the ET-8C800 TYPE I/ II and the alarm system has been damaged creating Open Circuit/ Short Circuit. Then, the system will follow the Macro Command actions to active a number of alarm actions.



### II. Auto Shunt Timer Setup



To use this function, the user can program 5 groups of auto shunt time table.



- ☐ Auto secure/ access time zone numbers  
User can click onto the Group Sent No., and there are 5 different groups one can select to program. Consider carefully before setting up the group operation.
- ☐ Auto shunt timer
  - Start time  
User can program the auto secure start time (as left) to be 08:36
  - Stop Time  
User can program this auto secure time to stop at 19:32 or any time user need for the company.
- ☐ Execute Date  
User can program the date by clicking onto the days of the week (e.g. Mon to Fri as in left). As the Saturday is a long/short work week, and Sunday is a holiday, thus the user can leave them blank and use the [Special] to set them differently.

#### Example:

The first group need to setup Auto Secure/Access of this time zone for all the fire exit door / magnetic back door.

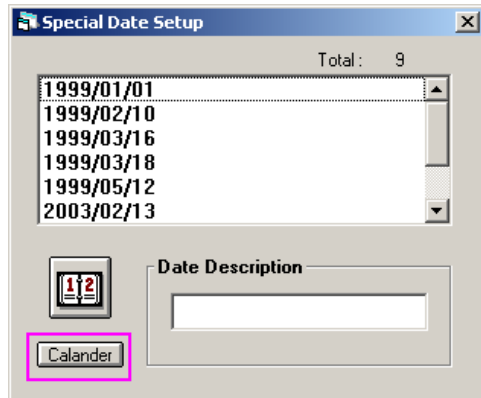
- Execute Date : Monday to Sunday
- Auto secure/access time set as 19:00 – 09:00°
- 2<sup>nd</sup> group of auto secure/access time zone number – all the internal corridors/magnetic door locks
- Execution period from Monday to Sunday
- Auto secure/access time set as 00:00 – 09:00°
- 3<sup>rd</sup> group of secure/access time zone – all the detector devices
- Execution period from Monday to Sunday
- Auto secure/access time set as 00:00 – 09:00

### III. Special Date Setup

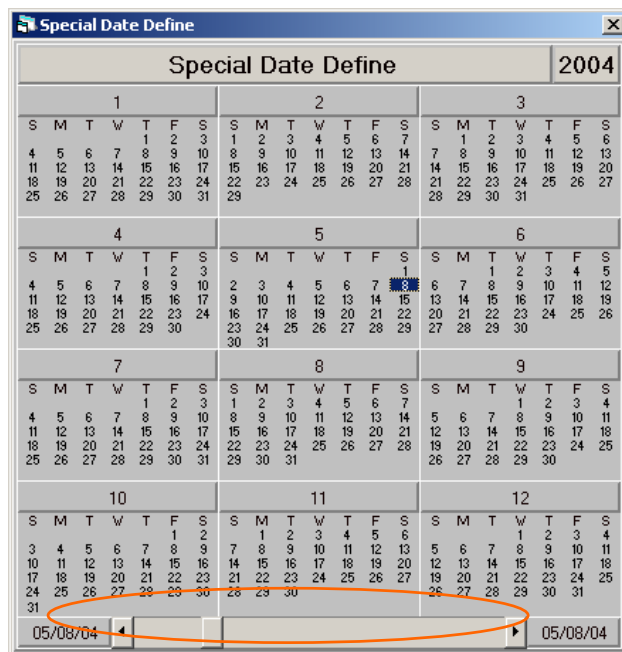


Within the special date period, the system will stop the original pre-set time table and replace them with the ones setup within the Special Date time table as below.

Special Date refers to those non-working dates, holidays or short week Saturdays. If the user only program the auto-time setup without telling the system which are the dates of no work/holiday, the system will execute wrong actions (e.g. shut off the security system when nobody comes to work) and thus cause system abnormalities on those dates.



- ☐ About Dates – This function is to input the special date name . First, click and select the date (until it turn blue) and then click onto the Date Description, for entering the date description by keyboard (e.g. New Year Holiday). Left click twice on the mouse to add the description next to the date selected.
- ☐ User can refer to the calendar to define the special dates. Click onto **Calendar** system will provide a 1000 year calendar for the ease of programming all the special dates in the future months and years.



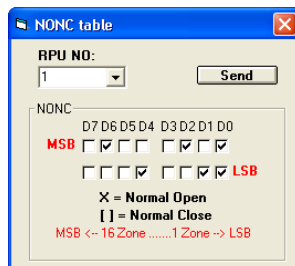
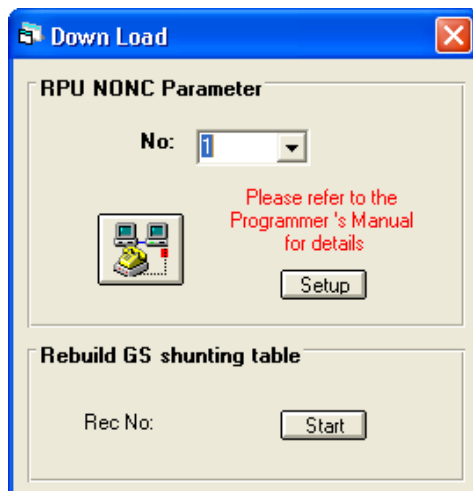
❖ The slider (at bottom) can help move from year to year

### IV. Parameter Download



After the input status has been renewed, the user can see the [input device program] the device work status has also been changed.

The purpose of this function is to down load the system data to a certain RPU device. Normally user do not need this function, but under special situation, need manually set these data, and then download to the group of RPU hardware. Example: after a RPU at fault and was being replaced, the data which belongs to the RPU number need to be manually to the device.



- ☐ RPU No. – ET-8C500/ ET-8C800 Device number (1-128) °  
User need to select the RPU number, (1-128), click onto the down arrow. Afterwards, click onto the Telephone icon (as shown in diagram).

- Setup – a window appear with the NONC Table

➤ [x] points means Normal Open circuit

|                 | LSB         |    |    | MSB |    |    |
|-----------------|-------------|----|----|-----|----|----|
|                 | D0          | D1 | D4 | D0  | D2 | D6 |
| Input locations | 1           | 2  | 5  | 9   | 11 | 15 |
|                 | Normal Open |    |    |     |    |    |

- ❖ About which point need to set “normal open” or “normal close” circuits, please refer to Chapter 4 Section 4.1 Para 1 of this manual.

- ☐ Rebuild GS Shunting Table

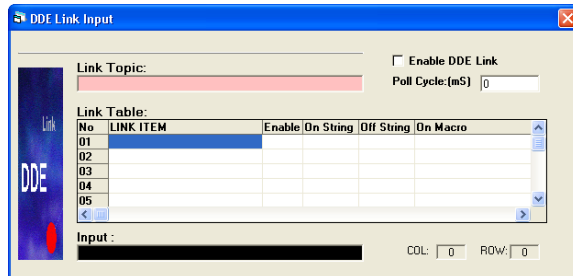
Click the **Start** key, the system will renew/rebuild all the data.

If the user discover the RPU data within the system has errors, mistakenly mix-up, then this function is needed.

### V. DDE Link



Motion Link – Through this DDE Link, MEGAsys can be connected in operation with other software, triggering the open/close of signal input to directly drive the MEGAsys Macro Command Programs. Motion Link must be input into the related software (LINK TOPIC) such as BASOPAIPIT List...etc. BASOPA is the link software name and PIT List is the name of the internal link recorder.



#### □ Topic Name & Link Topic Input

**BASOPAIPITList**

Example: Point No. 01

1:16:1 {07} is the name for this link point.

On String is the word-string when this point is linked to a string of words. “ON” string – when “ON” string is input from that point to the MEGAsys, the On Macro -- MAC 001 will be initiated. But when “OFF” word string is being input from that point to the MEGAsys system, then, the Off Macro -- MAC 005 commands will be triggered to start action.

- Enable – means to start this function at this link point

### VI. PABX Link



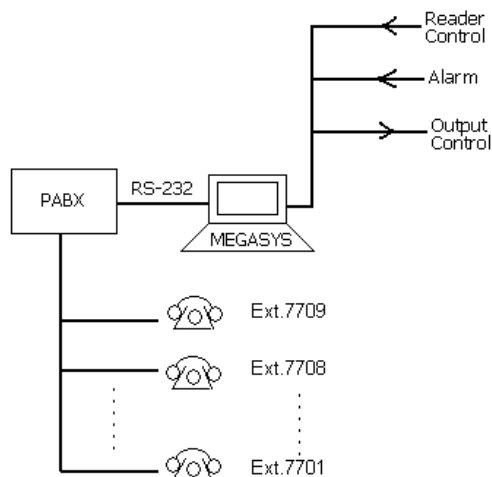
This function allows the system to control open/close on/off of devices (e.g. door/light/air conditioner/alarm/video recorder)...etc.

The screenshot shows a software window titled 'Ext Comm Control'. Inside, there's a section for 'PABX Interlock List'. At the top, there are fields for 'Call ID No.' (with a 'New' button) and 'Rec No.' (with a dropdown and +/- buttons). A checkbox for 'PABX Control Enabled' is also present. Below this is a table with two columns: 'Dial In Number' and 'Macro Interlock'. The table contains six rows, each with a number (1-6) in the first column and a macro ID (MAC 001 to MAC 007) in the second column. At the bottom, there's a 'Search ID No.' field and a small icon of a hand pointing at a screen.

- ☐ Call ID No. – for setting the extension telephone numbers for the internal control of the system. User can select to set up his own ext. number to execute control
- ☐ Rec. No. – there are (1-2000) numbers for enrollment of the relative external telephone numbers.
- ☐ PABX Control Enable – after enrolling the extension numbers, user need to enter one of the 6 dial numbers for the PABX to route message from the main switch phone to the particular extension phone.
- ☐ Macro Interlock – this part include two parts: (Dial in Number) and the (Macro Interlock) °
  - (Dial in Number) – every one of these has 6 dial in numbers: 100, 101, 102, 103, 104 和 105. By dialing any one of which, the user can execute the Macro Interlock commands being programmed.
  - Macro Interlock – user can utilize any of the Macros with the exiting command files.

❖ For details, please refer to the MACRO Menu Ver.1.0 (For MEGAsys Ver.3.xx)°

- ☐ Search ID No. – user can enter the extension telephone number as (Call ID No.). Click the icon after the proper entries.



<Figure 4.3.5.1>

- ❖ PABX — Use (Northern Telecom) for reference.
- ❖ Please refer Chapter 4 section 4.11 for Xcom/ PABX set up.

### VII. Analogue Point Setup



Input device type – (AI) Analogue device is for setting up: temperature sensor, pressure/voltage/current sensors ...etc. For the different devices, please set up as the following steps.

MEGAsys system can provide a maximum of 128 analogue devices with addresses for user to set up. Each AI must be insert with a name, type, preset alarm output program/info.

Due to different measurement values/ranges of every type of AI are, the user can do the conversion calculation using different AI conversion formulas.

#### ➤ Analogue Input Point Setup

Depending on the type of Analogue Input device, every AI point input data are different.

#### ➤ Unit Display

MEGAsys system provide a total of 128 AI address for usage. From 1 to 128.

#### ➤ Alarm Display Message/ Alarm Interlock Output

- ✓ Input Point Display – every AI device need to add words for message or for analysis display.
- ✓ Pre-Alarm Level – input the level value, when AI device reach this level, the MEGAsys system will trigger the pre-set alarm message / sound and other related pre-alarm.
- ✓ PreAlarm Interlock Macro – when AI device reach the preset level, MEGAsys will trigger to execute the pre-programmed Interlock Macro Commands – pre-alarm actions.

#### ➤ Calculation function

There is an AI unit for every AI input location. User must enter into the Unit box, any kind of unit of measure. Basically, for temperature measuring (°C, °F), for measure of current (I), of voltage (V), of pressure (Pa) ...etc.

❖ Please refer to the MEGAsys Quick Start Manual for more of the AI programming steps.

### 4.4 Output Device Setup

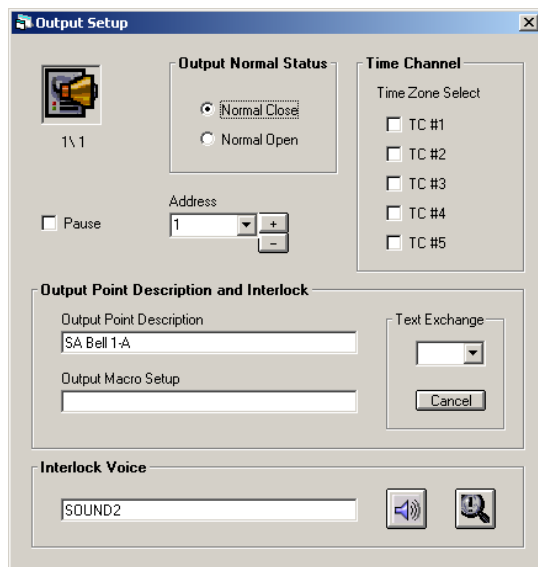


MEGAsys system can accommodate many types of output device (e.g. security alarm, emergency lighting, fire detection...etc). It is capable of manual & time scheduled auto output, alarm interlock or macro command outputs. To know the work status of such output devices, the user need find out from MEGAsys system thru the addresses of each output device, and also can program the devices by setting up programmed commands.

#### I. Output Setup



This section is to let the user to program the name of the output device, use the remote processing output units, open/close selection, display the location on the Mimic Map...etc.

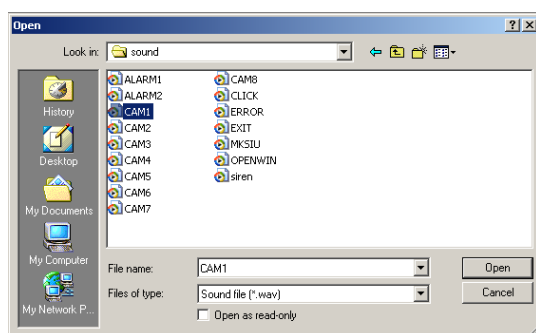


- ☐ Output device address  
Output address starts with 0001 and ends with 2048. Need to program all the address for every output device. The addresses must be same and matching with the other RPU (ET-200, ET-8C500, ET-8C800) that surround the Alarm system.
- ☐ Output Point Description & Interlock  
Different output has different task nature. Some are normal open others are normal close circuits. User must be very careful in selecting them. User must be careful in understanding the nature of work before setting this.
- ☐ Auto Output of Time Groups  
There are 5 set of auto output time groups within the MEGAsys system. Different time group represent different time relative to different device on/off, trigger control ...etc. User must set up the outputs per the start/end or open/shut time group (from 1-5).

Example: the alarm system within a department store, the lighting of the back door stair case, starts at 6 pm and ends at 6 am.

The first group of 分路時間 06:00 - 18:00, but within the same system, another indoor lighting is needed to start at 8:00am for cleaning workers.

Thus the second 分路時間 08:00 - 20:00, In order to avoid the error in timing cause alarm to be triggered, user need to utilize the this 時間分路控制時. User must check the computer system for the accurate time of the clock before start of program.



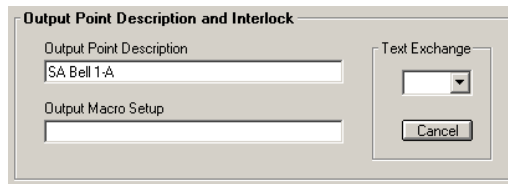
- ☐ Interlock Voice Broadcast Input  
When interlock system generate alarm, user can define a voice file for broadcasting a pre-recorded message. File name can be either name of device or location of installation. Example:

1/F fire stair magnetic door contact, voice file001.WAV

2/F fire stair magnetic door contact, voice file002.WAV

3/F fire stair magnetic door contact, voice file003.WAV

When user program enter the device No.001 , he can link the voice file of 001.WAV . The steps of define such voice file as below: user can use WINDOWS provide voice recording software, create and save the voice files onto the MEGAsys system. When this file is needed at another location again, it can be retrieved easily from the system of MEGAsys again.



- ❑ **Output Point Description and Interlock**  
Through the control of the Mimic Map, the control allows MEGAsys to execute the output control. User can write Interlock Macro Output Commands to achieve the interlock output control.

First line is for input/output device control to display the text. Total 14 word text need to be display when user is away when device is under operation.

Example, when the Mimic Map display the output device, shows the siren (on/off) switch when being triggered to sound off. User can write program to display such.

Second line is for the user to program the Macro Interlock commands for setting alarm device output. At RPU 001 terminal output siren 004, camera lighting 005.

User like to program the Macro commands to achieve interlock output when alarm signal is received.

Example: on the Mimic Map, there are output devices, icon shown the open/close of the alarm siren, user can program the Macro to display “siren alarm at the lobby hall”, (using 001 as the alarm RPU, 001 as the output terminal, triggering the lighting for camera shooting range, “ACU 001 OUT 0001” as the command output. The system also instruct the switching of video camera to different position of monitors.

As the following:-

Switch Camera 001 to Monitor 05

Switch Camera 002 to Monitor 06

Switch Camera 003 to Monitor 07

Switch Camera 004 to Monitor 08

Output the video 05-08 to a 4 channel split screen TV monitor

Interlock Output Commands:

CAM001 MON005

CAM002 MON006

CAM003 MON007

CAM004 MON008

END (must add END at the closing of the Macro commands)

- ❖ *Please refer to MACRO Menu Programming Manual Ver.1.0 (For MEGASYS Ver.3.xx) for more details.*

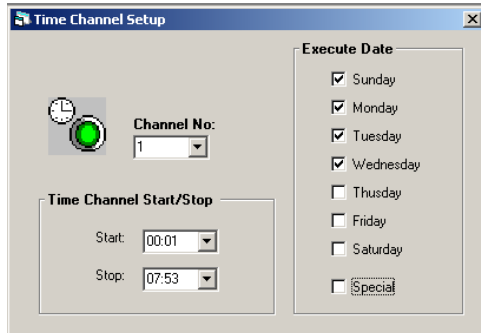


# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

### II. Time Channel Setup



- ☐ Auto Time Group Number  
There are total 5 groups of auto time. Different group represent during different time, different device will automatically execute auto start/stop controls. While setting the output time, the user must base on the output channel to set their control zone (between 1 to 5).

- ☐ Auto Time Output control / Time adjustment  
There are altogether 5 groups of time for user to select.  
Example as below:

- Start Time  
User must specify a output start time, this group's auto start as 15:43 ( at 3:43pm, output underground wastage water lighting, allow the camera to capture the height of the water level)
- Stop Time  
User can specify the device auto stop operation time, this time as 15:44°

First Group all infra-red lighting control on/off  
Execution period: Mon to Sun  
Auto operation time (start/stop): 00:00 -- 0630

Second Group all the lighting for fire exits on/off  
Execution period: Mon to Sun  
Auto operation time (start/stop): 06:30 – 00:30

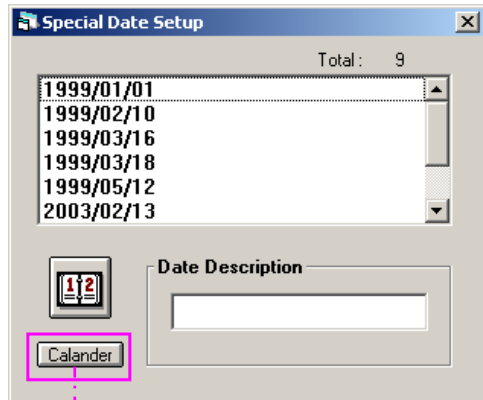
- ☐ Execution date/ holiday  
User can self program the security device to start /stop operation date. This time group auto secure date as Sunday to Friday.

## III. Special (Holiday) Setup



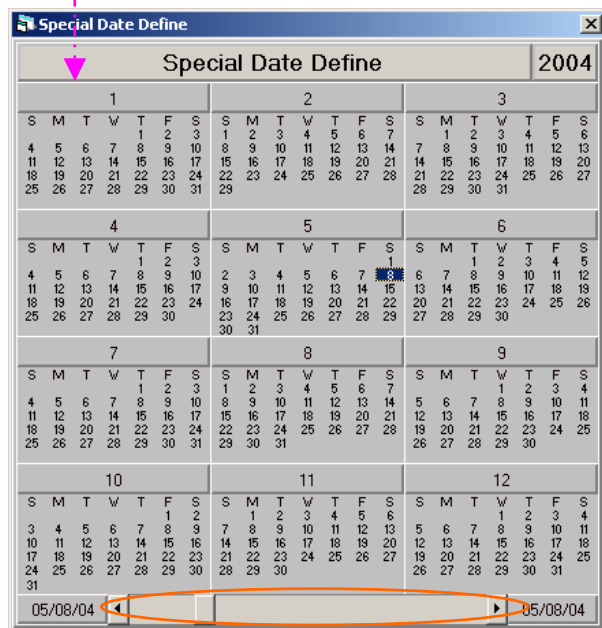
With the setting of the special date (which is a day NO need to work) the system will cancel the pre-set program of start/stop of security measures during the normal working dates.

Special date also include: short Saturdays and holidays which the employee do not need to report to work. Without setting the Special Dates is like not telling the system those dates are non-working dates, the system will continue to execute the security tasks scheduled to start and stop on ordinary working days.



- ☐ First to select the date from the window (as shown), then enter the Date Description into the box below by typing in the key board. Left click twice on the selected date to enter and complete this step.

- ☐ For continue to enter other dates, click the **Calendar** the system will display a set of Thousand Year Calendar for user to select dates for setting Special Dates in the future.



- ❖ Press the horizontal slide to roll and select the calendar of different years.
- ❖ User need to use the mouse to click onto the date, and that date will become an execution date. System will automatically input to the Execution date list to allow user program the name of the execution. Click one more time will cancel the selection.

## 4.5 Access Control Setup



MEGAsys system user can utilize up to 30 units of double door access control management processors. All the access control points must have an address location 01 – 32. This number is like our home address, allow the system computer to send off access control commands. User can also program the kind of control instructions (with more data input) to the specific access controller devices.

### I. Access Card Setup



Allow the user to program different card holder data, and to execute the access control management base on the different time zone, and according to the card holders' personal info, photo, department...etc.

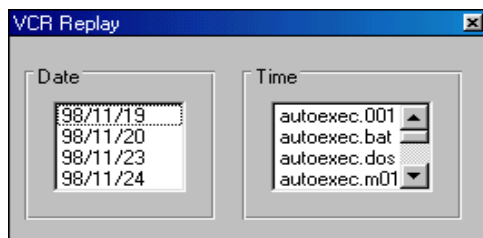
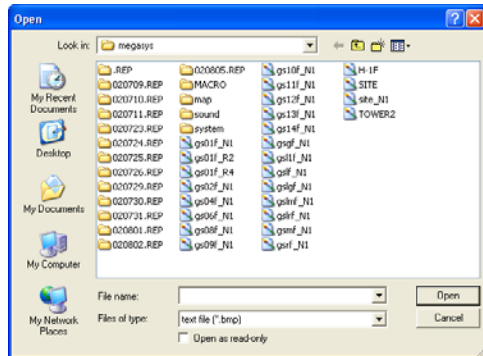
#### Page 1 – User Database

- ☐ Card number  
Enter HID or MOTOROLA 26(BIT) RFID card number
  - ☐ Name  
Enter the card holder name
  - ☐ Department  
Enter the card holder belongs to which department
  - ☐ Employee ID number  
Enter the card holder's corresponding employee ID number (which different for each of the card holders)
  - ☐ Card Issue Date  
Enter the date when the card is first issued
  - ☐ Access Level  
Enter the card holder access level (priority authorization) for entering certain access door or zone. Please refer more on this within this chapter.
  - ☐ Access Group  
The access zone numbers which the card holders are allowed to enter.
  - ☐ Valid Date  
Enter the last date this card can still be in-use. (right click the mouse can change the valid date of the user)
- ❖ "ValidDate" format must follow – MM/DD/YYYY, This format is for the convenience of print out and also to avoid confusion. About the path to get in for the setup  
Start> Settings> Control Panel> Regional Settings  
Window of Regional Settings Properties appears, log – in date page, setup steps are as below:
1. On the Short Date box, next to Date Separator enter "/".
  2. Then, enter into Short Date Style "MM/DD/YYYY".
  3. Click **Apply** key to back out from this window

### ❑ Card holder personal photo

Enter the photo into the file as below:

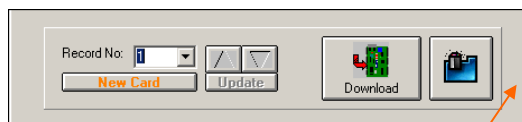
1. Put the photo onto the laser scanner , save it to file 52002.BMP (i.e. 52002 is the card number for the holder. Every card holder has a unique photo file. Use Windows 95 BMP format for all photos)
2. Use a digital camera for taking card photos, open the photo on the computer, and save the display into file 52002.BMP (i.e. 52002 is the card number for the holder. Every card holder has a unique photo file. Use Windows 95 BMP format for all photos)
3. Use the CCTV camera installed within the MEGAsys system to take the photo, and then save into the computer MEGAsys file, as 52002.BMP (i.e. 52002 is the card number for the holder. Every card holder has a unique photo file. Use Windows 95 BMP format for all photos)



### ❑ Card Database Extended

Click **More** key, Card Database Ext. window will appear, this is an highly confidential data file on the card holders, and should not be shared with any non-authorized personnel. Example:

- ID card number – user's personal ID card number
- Start Date – date being employed
- Safety card number – if the card holder is also a hold of Safety card, must enter record of work. E.g. Construction site worker
- Tel/ Emergency Contact – enter emergency contact number when the need arise
- Training Date/Record – about on-job training date
- Skill test & Certificate No. & record – if the card holder need to be verified for such records, before he can start working, thus need to enter such info. E.g. Police
- Warning / Discipline Action Record– 若 if the user has been warned or being disciplined before, it need to go down into the record
- Injury Record – if there were any injury on-the-job before, all need to be recorded here
- Remarks – other info



Delete card holder info

### ❑ Record file number

Need to program all the card holder info into a serial numbered file.

### ❑ Send card data

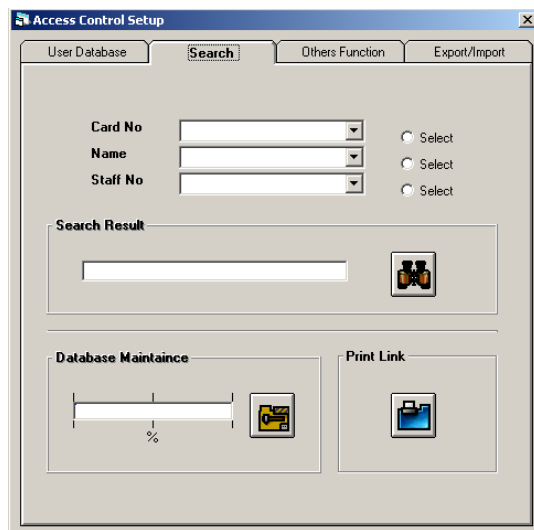
Use this to send the card holder data to all the access door controllers

### ❑ Delete card holder info

To delete the card holder info/data. Must first find out such data from the system. Then click onto the Delete Icon (as shown here). MEGAsys will delete the date file from the central system as well as to inform all the system

linked access control door controller remote processor units to delete these info.

### Page 2 – Search



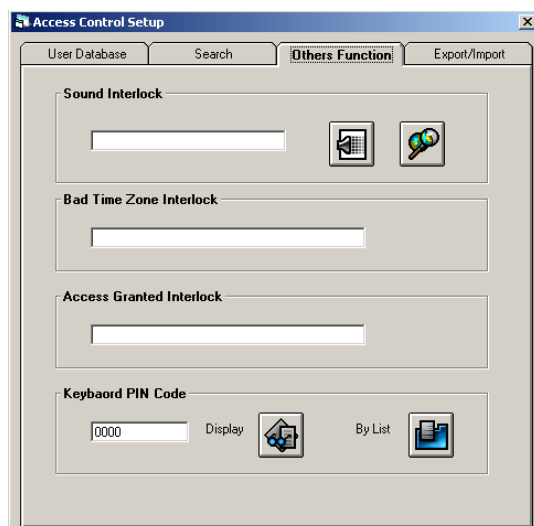
MEGAsys system has two ways of helping user to find the information needed -- by the card number or thru the name of the card holder. See below on search methods:

Example: search by card number

There is a user name list within the Access Door file of the 在 MEGAsys system. After editing and saving the list into the computer, the user should also save a hard copy print out in case of any computer hardware failure. Steps:-

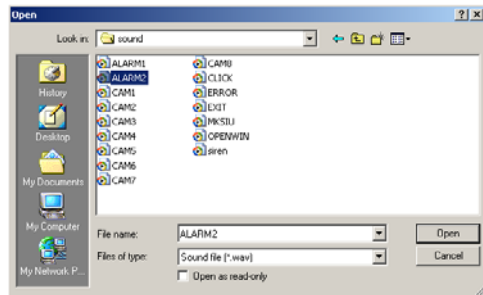
- Enter the inner of the card holder need to be searched
  - Click onto the [Use] box and then click {Search} box, press ENTER key to execute search function.  
If the number of card holder has been filed within the MEGAsy, the system will find and display the data of holder. If it has not been saved into file before, the system will inform user, [no file found] at the Search Result box.
- ❖ *Other than using the card number to search for user info, the other method is to use the Name of the Employee (card holder) to search for info. The steps are same as above.*
  - ❑ **Card holder info update**  
If user discover there were faults occurring at the access control system: e.g. Reader Error, Wrong Photo, Wrong Time Zone...etc. Click the mouse onto **Process** key, and the MEGAsys system will reset the user file with the latest update or changes.

### Page 3 – Other Functions



This is for the user to program the other functions of using the access cards (e.g. Macro Interlock Audio Output, Macro Output during normal card reading or alarm interlock signals).

- ❑ **Interlock Voice Broadcast**  
This is to let the MEGAsys execute voice output to allow the control center know what is there person's name when entering into the access door. User has to click the icon with Magnifier Glass, to search for the Audio files saved within the MEGAsys Macro commands Files. Click onto "SOUND" to choose an appropriate sound file, an input this file automatically to the alarm category.
- ❑ **Bad Time Zone Interlock**  
This is to set up the wrong time zone, and the kind of response or reactive work that should follow. Such interlock command (e.g. voice broadcast) can be added to auto alert the card holder of card time zone error.
- ❖ *For further details, please refer MACRO Programming Manual Ver.1.0 (For MEGAsys Ver.3.xx)*



### ❑ Interlock Output (Access Granted)

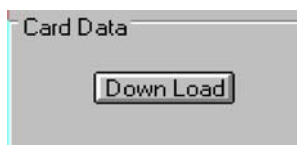
This is to program any kind of Macro commands under normal card reading to be followed by the system's reaction or the tasks that need to follow. Example: broadcast [Welcome] or [Good Morning] message or music after normal card reading.

### ❑ Keyboard PIN Code

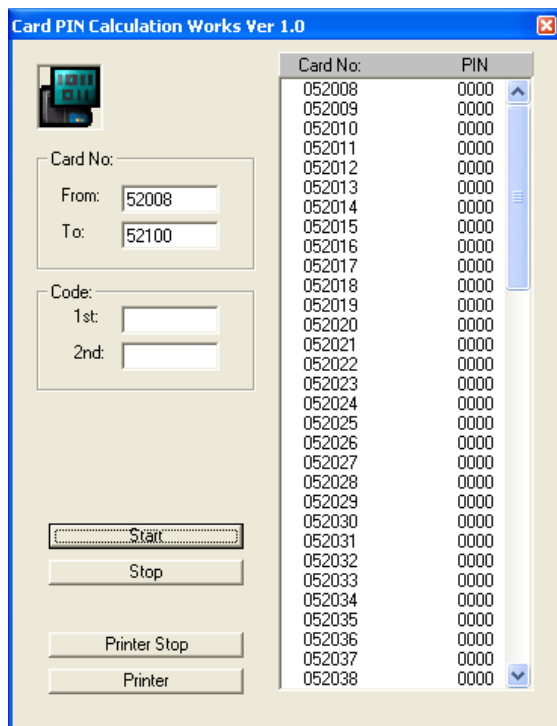
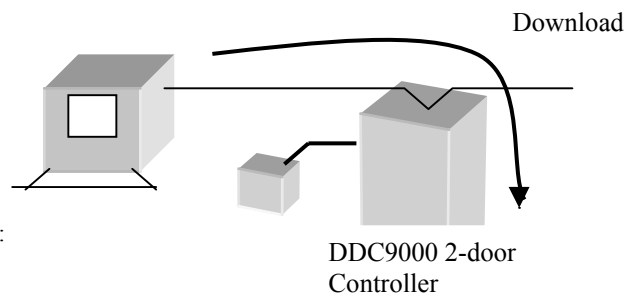
Every user has a PIN code number, which is automatically generated and assigned by the MEGAsys system. System can be set up to request both the read-card and PIN number key in functions.

Click the PIN keypad table key a window of [Card PIN Calculate Works Ver.1.0] will be displayed.

All the system input of card numbers had been downloaded to every DDC9000 card reader controller. The entire system can be downloaded.



Press **Down Load** system will download all at once:



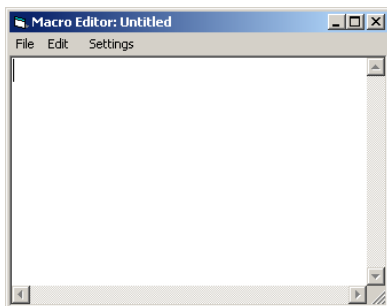
### PIN List Table

This table list out all the PIN number of the access cards within the system. Every card will be assigned with one PIN number which is "unique". User can select the function of "Card Read" only, or "Card Read" plus "PIN Entry" onto keypad.

- Card No. – when the needed card number has been entered, example: "From:"52008 "To:"52100
- Code – base for the PIN code., which is used to calculate and assign the PIN number.  
Normally, the code base 101 (1st) and 139 (2nd), system will then base on the user entered number to calculate an independent secret code for this card number. User can use this number to control access entry points.
  - ❖ The user cannot get thru any door access with the wrong PIN number, and cannot change the PIN number by the user himself.
  - ❖ The PIN base must be provided by the supplier alone.
- Start – press this key, the system will start searching the related PIN number to the card number.
- Stop – Press this key the system will stop searching & display the card number and their relative PIN numbers
- Printer Stop –Click this key, system will stop the search & print of PIN numbers.

- Print – press this key, system will start search & print of PIN numbers.

✧ If hard copy is needed, connect to Printer, press **Printer** to start the printing.



- ❑ Normal Card Access Macro Output  
MEGAsys system can use all the output points to execute single task output or execute multiple tasks Macro commands (always open security alarm device, zone lighting on/off, fire prevention outputs, access points open/close/...etc. User can utilize the card reader to program many more Macro Control commands, and to control various output devices.

- ❑ MACRO is for the user to self program the output command formulas. Most of the engineers who know BASIC language knows how to write the Macros. When engineer open one file as window shown here, it allows you to write the combinations of input/output commands. (e.g. trigger the alarm siren, close access door/corridor, sound off broadcast, start the lighting, interlock start the PTZ camera, control the camera matrix, output video to display on certain monitor, start recording by certain DVR ...etc)

- ❑ Example of Macro writing

Establish a new file name e.g.: ( MAC001) as the first output macro program. When normal card reader need interlock output commands, specify “file usage” , “device function”, “camera location”. Example : interlock output commands as below:

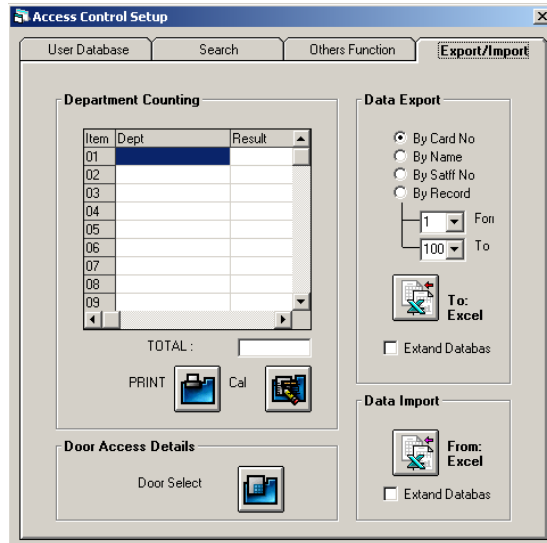
```
CAM 001 POS 005    (switch on camera 1 to position 5)
CAM 002 POS 006    (switch on camera 2 to position 6)
CAM 002 MON 006    (switch on camera 2 to position 6)
CAM 001 MON 006    (switch on camera 1 to position 6)
ACU 001 OUT 001    (Alarm Collector Unit 1 Output 1 turn light on)
ACU 001 OUT 002    (Alarm Collector Unit 1 Output 2 turn light on)
END (all formulas must have the closing with END)
```

Enter the Macros as below:

```
ACU 001 OUT 001
ACU 001 OUT 002
CAM 001 POS 005
CAM 001 POS 006
CAM 001 MON 006
CAM 002 MON 005
END
```

} = MACRO 001  
(during the normal card reading, input these file name, to interlock output the action commands)  
  
(all formulas must have the closing with END)

- ❑ Card Reader Alarm Interlock Output  
Same as above, simply take all the macro commands send to the card reader interlock alarm output device. User mainly want to the MEGAsys to execute a series of interlock control outputs when the access control issue alarm when reading the cards.



This page is for user to conduct different statistics analysis base on the card reader units, and find out other facts about attendance.

☐ Total cards within Dept.

Using the department as a measuring unit, this function can separate all the cards into different categories. User can click onto the system **Calculate** key to find out how many cards totally are being used. These statistical data can either be displayed or printed out.

➤ Print – press this key to print data report.

➤ Calculate – after the user made selection at the Data Export on all the types of info needed and then press “Total” the sum of the type will display next to it.

☐ Data Export

There are 4 types of card holders for user to select (i.e. card number, name, employee number, and record number). If user select the record number (1-2000) for print out, he must also select the range of number

➤ Extended database– if user hopes to print out a detailed list on this, he must click onto this key.

➤ To Excel – click onto this icon, all the info will be export to the Excel file and be listed or printed out in Excel format.



☐ Data Import


User can save all the data into the Excel file, and then import the calculation table directly into MEGAsys system to reduce the chance of error.

➤ Extended Database – take the confidential personal data file and save them into the extended database.

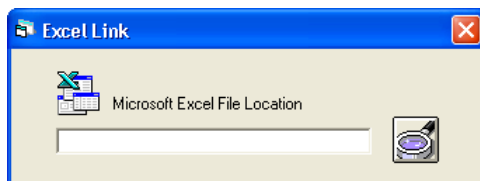
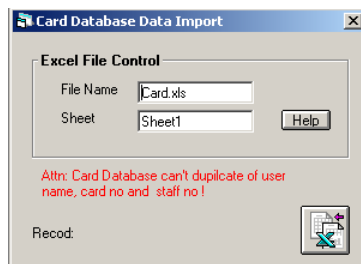


Click this icon, will appear a window Data Import. After importing the proper info, user can import the prepared data.

- File Name – for the calculation table and file type
- Sheet – enter the Sheet number of the calculations
- Help – Display onto the (Excel File Format), save the file as per the example provided, MEGAsys system can take all the calculation sheets and import them. °

- Data Import – click the key , MEGAsys system will search for the draft of the calculation table, and file it into.

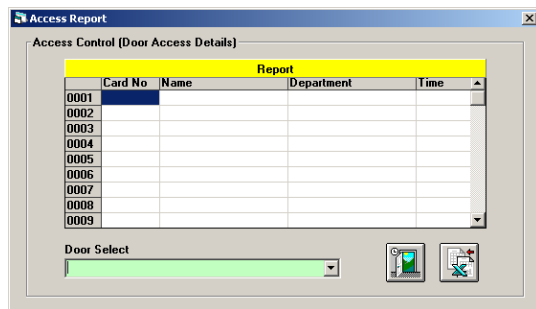
❖ If the user is using the Excel Link function for the first time the system will show an Excel path on the left for the user to fill in and search.



## Appendix – 4.5.1: Information Analysis using (Data Export & Data Import)

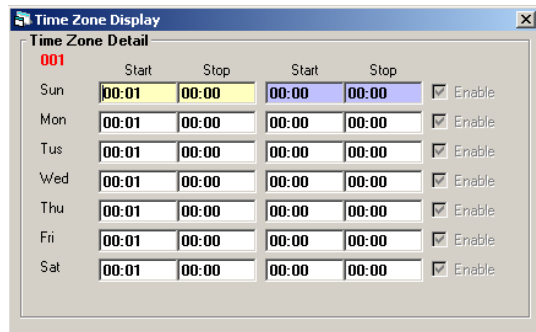
### Appendix – 4.5.1: Link Excel





### Door Access Details

- Door Select – using door as a basis for search table. Click onto this icon, and Access Report will appear. This table list all by the order of door numbers and who has accessed which door, at what time.
- Click select Door Select – click on the down arrow, there will appear with many door zones on display.



- ❖ Click the Time Zone number, you can check that of time zone detail. Time zone display screen would list out a whole week of time zone.

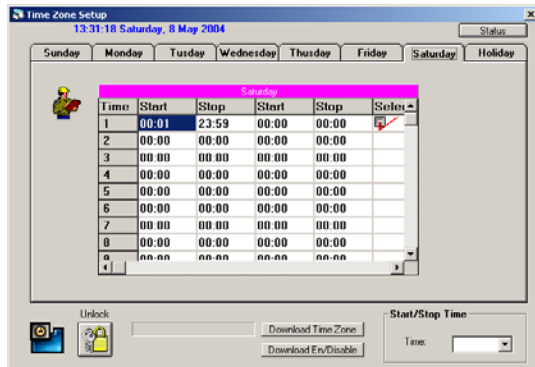
---

### Appendix – 4.5.1: Edit Door Select – Access Report

### II. Time Zone Setup



MEGAsys system can control and manage 30 units of DDU (double door control unit) and 60 units of door access control. One of the management methods is to control/limit every card holder's entry access time, location, and other specific settings. Every DDU can control 16 time zone, and every time zone is base on the 7 days and holidays setting to program the control, with two groups of start/end time period for user to manage all access control points.



- **Status**  
Press this key “Status” , to display “time zone status” showing all the time zones been set within the system.
- **Time Change**  
Click on the start time, e.g.: Tue, start time 00:00 until it changes blue, user can then change the time to 08:15 for the first group of time zone.
- **Download Time Zone**  
Take that page(e.g. Tue) time zone and download to the controller ET-121.
- **Download En/ Disable**  
Take the selected and edited time zone and download its data to controller ET-121.

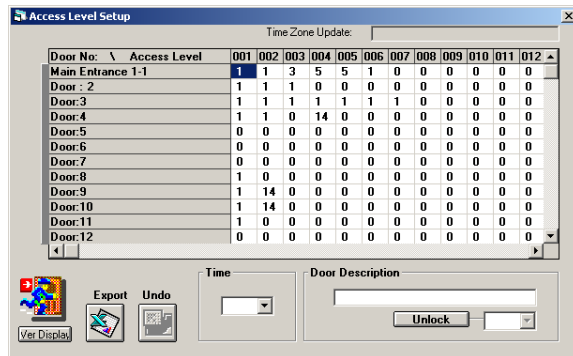
Example: before setting up the access management system, the user must organize all the time zones (within the 7days plus special holidays) into 16 time groups.

- **First time group**  
The user must first set this group's normal working time as 08:30-12:00 & 13:00-17:00 from Mon to Fri, and 8:30AM-12:30PM for Sat., with Sun and holidays no need for work... and for example, the user assigns the access door [1] for this group of workers. And no need to select the Sunday & holidays, as this group do not need to work on these days.
- **2<sup>nd</sup> time group**  
The user then sets for the 2<sup>nd</sup> group: working time as 08:30-12:00 & 13:00-17:00 from Mon to Fri, and 8:30AM-14:30PM for Sat., and the access door allowed to pass for 2<sup>nd</sup> group is door[2].  
The start and stop time for this group should still set as 00:00 for they have to be on shift work for all Sundays and holidays, thus the user also has to select all the Sundays and holidays.

## III. Access Level Parameter



MEGAsys system can control and manage 30 units of DDU (double door control unit) and 60 units of door access control. One of the management methods is to control/limit every card holder's entry access time, location, and other specific settings. Every DDU can control 16 time zone, and every time zone is base on the 7 days and holidays setting to program the control, with two groups of start/end time period for user to manage all access control points.



Example: the user must organize the access control with the below settings: there are altogether 7 access doors, and each of them belongs to 5 groups. User must assign each access priority level for each employee for each of the 5 time zone groups.

- Access door group  
Within the system, the user can take the employee normal access pattern and group them differently as below:

□ Door Group 1:

| Door number:                | 001 | Remark           |
|-----------------------------|-----|------------------|
| 5/F Entrance 1 in (1)       | 1   | Uses time zone 1 |
| Door: 2                     | 2   | Uses time zone 2 |
| 5/F Entrance 2 in (3)       | 1   | Uses time zone 1 |
| 5/F Entrance 2 out (4)      | 1   | Uses time zone 1 |
| 18/F Entrance North in (5)  | 0   | Uses time zone 0 |
| 18/F Entrance North out (6) | 0   | Uses time zone 0 |
| 18/F Entrance South in (7)  | 1   | Uses time zone 1 |
| 18/F Entrance South out (8) | 0   | Uses time zone 0 |

Time Group [1]:

Normal working hour: 08:30-12:00 & 13:00-17:00 from Mon to Fri, and 8:30AM-12:30PM for Sat., with Sun and holidays no need for work... and for example, the user assigns the access door [1] for this group of workers. And no need to select the Sunday & holidays, as this group do not need to work on these days.

- Adjust Time Group  
Click on to the group that need changes, example :  
Zone No.2 for Group [1], click on it until it change to blue color, user can now select the time box [2], then the zone 2 will change to time group [2] °
- Define Door name  
Click the mouse to change the name, e.g.  
Set the first one to be called [DOOR: 1], click until it change blue, user can enter the name to be [5/F Entrance 1 in (1)], the result of change will be display.

# MEGAsys – Server

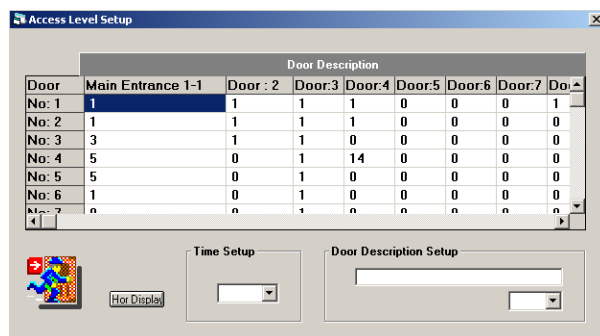
## Graphic Alarm Display System Software Programming Manual

---



- **Unlock**  
This is to prevent the content to be altered or changed. Every time the user backs out of this page, the system will automatically activate this function, to protect all the data.

- **Vertical Display**  
Vertical display use the door access number as the base, and displayed as such. User will see on the diagram that the door access are on the vertical column, and all the door number be displayed on the horizontal rows. If the user does not like this way of display, he can click onto the Vertical Display to change it to be displayed horizontally.



The user has a choice of selecting which display method that is most suitable for his operation work.



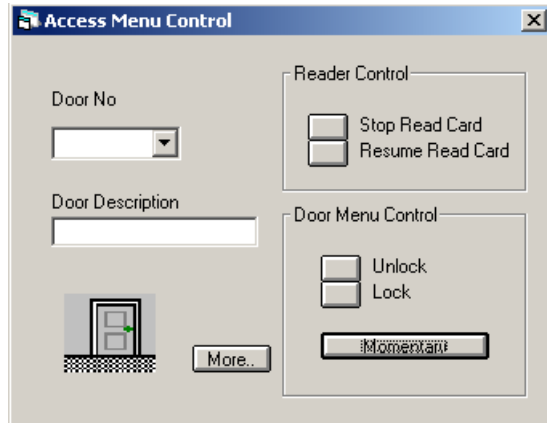
- **Export**  
Sends the door access data to Excel for display, print and for storage
- **Undo**  
This is to undo any unintentionally changes or deletions. Press this key, the computer will return to the previous step before the mistaken changes.

### IV. Manual Access Control

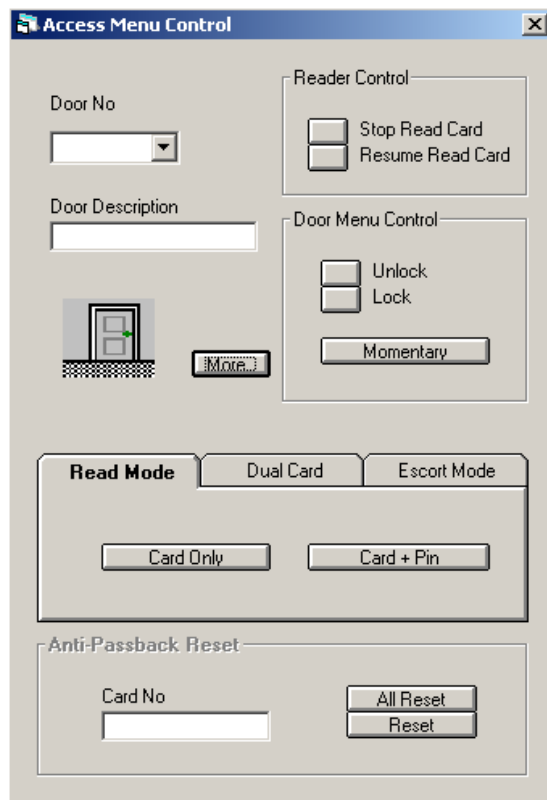


There are two manual control for user to select:

1. Control any one door access with/ without reading card
2. Control any one door access with locked/ unlocked doors



- **Reader control**  
Allow the user to control any one or many units of door access operation within the system. (with or without card reading). User must select the access door number, system will display the access door name, and user can take the computer mouse to click (stop/resume) card reading function.
- **Manual Access Control**  
Allow the user to control any one or many units of door access operation within the system. (with or without locked or unlocked door status). User must select the access door number, system will display the access door name, and user can take the computer mouse to click (lock/unlock) door access function.



Click **More..** key, window will display more control functions such as below:

- Read card mode – can manually control the card reading mode(read card only, read card and key in PIN) .
- Read Card Only – means the single action of card being read will allow the user to enter.
- Card and PIN – means that other than card being read, there is also need of PIN number key in before user can be allow in.
- Dual card mode – there must be two cards being read at the same time before entry is allowed. But when not being used, must click cancel to stop the dual card mode.
- Escort Mode – under this mode, there are two cards, but one of the two cards MUST be a master card, before entry can be allowed.
- ❖ *Every function must be designated to a type of access door for execution. User must select the access door number and then select the function/mode of access.*
- Anti-passback reset – when re-entry access check mode being selected, any error happens, the card will not be able to function again. To use this card again, system must be reset. Simply enter the card number in the box, and then click the **Reset** key for the particular door number. Or , press the **All Reset** key to reset the access points of the entire system.

The first screenshot shows the 'Read Mode' interface with buttons for 'Card Only' and 'Card + Pin'. The second screenshot shows the 'Dual Card' interface with buttons for 'Dual Card' and 'Cancel'. The third screenshot shows the 'Escort Mode' interface with buttons for 'Escort' and 'Cancel'.

Read Mode

Dual Card Mode

Escort Mode

- ❖ Must read card (before/after) entry and exit for access.

- ❖ Upon entry, must first read the master card, and then the other card before allowed to entry or exit can be granted (Escort card please set at TZ 14 time zone)

## V. Holiday Access Level Setup



MEGAsys system can manage and control 30 sets double door controller units, and 60 door access points, with 2 management methods: one is control the control every card holder on their ability to gain pass access into different door zone groups which the MEGAsys system provides 30 groups of door zone, each group can control up to 60 door access points.

The second management method is to control all card holder the door access time, by limiting the time each card can gain passage thru each of the card readers. Every double door control unit can have 16 different time groups, and each time group can program (7 working days plus holidays) to control daily access schedule, (and each day has 2 groups of start and end time). User can utilize the above to formulate a complete access control system.

Every country, race all have their own unique holidays, thus this is a very important function and should be set correctly for each company. This allows the management to prevent any employee to gain access into work area when other workers are not around or at work.

The screenshot shows the 'Holiday Access Level Setup' window. It includes a table with columns for 'Holiday', 'Start', 'Stop', 'Start', 'Stop', and 'Day of Holiday'. The table has 4 rows of data. Below the table, there is a 'Start/Stop Timer' section with a 'Time' dropdown and a 'Holiday Description' section with a text input field. On the right side, there are buttons for 'Set Holiday', 'All Delete', 'Send Holiday', and 'Send Enable'.

MEGAsys system will base onto the user setting to execute control. Card holder without holiday access authorizations, will absolutely deny entry, and will trigger to issue time zone error signal, (with holder's number and photo). For those who have the holiday pass authorization, the card will also be check against 4 time zone parameters before granting entry. If system discover any miss-match, it will also issue time zone error alarm with the card holder's number and photo.

MEGAsys system provides a software to allow holiday setting for different countries. Click onto the holiday access level setup and program accordingly.

- Holiday data

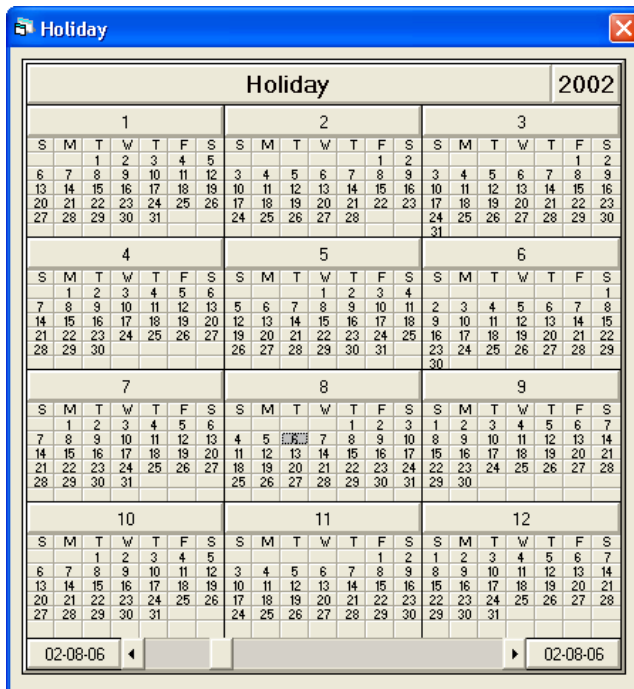
First, set the name for user to remember holidays: Click onto the date and enter the name of the holiday, then enter to show it on the table.

- Start/end time  
Just like the working days, the holidays also provide 4 groups of time for user to program. The user also need to assign priority to different employee for holiday access. Example:

1. Time group 1 – management staff (they must be present before other ordinary workers can come back for over-time work).
2. Time group 2 – ordinary workers(they must have authorization to come back for over-time work).
3. Time group 3 -- supervisors (they must follow the normal working hours and authorized for over time work).
4. Time group 4 – general managers(they are allowed to come back to work within the 24 hours of the day)

<<Holiday Setup>>

➤ Holiday entry



Click onto any date on the calendar, until it change color to Yellow, when user confirms this date to be a holiday, he can then enter the name of the holiday.

Example: set January 1<sup>st</sup> and 2<sup>nd</sup> as the New Year Holidays

- Send Holiday  
Press this key, to download the edited holidays' time and date info.
- Send Enable  
Press this key to download the edited time holiday access time zone info/data.

# MEGAsys – Server

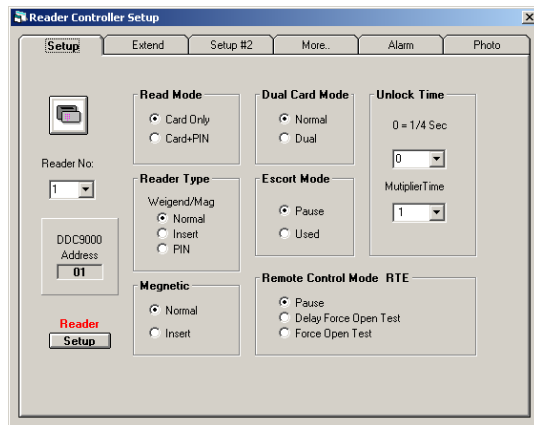
## Graphic Alarm Display System Software Programming Manual

### VI. Reader Controller Setup



Within the access control system, there are different devices, e.g. different function/model access card readers, different types of locks...etc. In this section, user can understand their functions and how to set them up for operation.

#### Page 1 Reader Settings



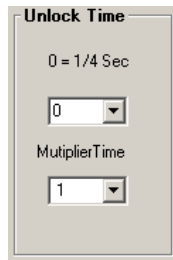
Within this function window, user can select the reader need to be programmed.

- Card reader locations  
At the reader number, click the down arrow to select one number between 1-60 for this reader unit to be programmed.
- Reader Setup – click this key, the selected data will be sent to the related door controller
- Mode of operation  
User must enter the card reader mode (read card only, or read card and PIN). Click the [Card-PIN] if you want to have double control of both the access card, and key-in of PIN number. Click [Card only] if one control is needed.
- Reader Model  
Double door controller need to connect with 3 different technologies card readers. (i.e. magnetic type, Weygand, and the RFID type). User need to input all the type and model, because the double door controller need to use relative communication mode to communicate with the card reader. If you set the card reader as magnetic, or Weygand, the modes (insert or swipe type) because the double door controller mode will follow the user's selected type to execute the communication between the points.
- Magnetic card  
The magnetic has two types (insert or swipe) of readers, the proper setting can guarantee trouble free communication.
- Dual Card mode  
Once set as dual card mode, every time access entry need two cards to be read, for system to execute acknowledge and operate.
- Escort mode  
This mode need two cards to be read, one of which must be a master card (carried by the person with authorization) to enter together. (*Escort card must be set as (TZ 14).*)
- Remote Open mode  
Pause – User can remote control the open door switch and double door controller. The window to the right can allow user to pause this function.

Force Open Check – the system can check the status, If the door was opened without the access card being read, the system will determine this as a “Force Open” and will trigger alarm signal.

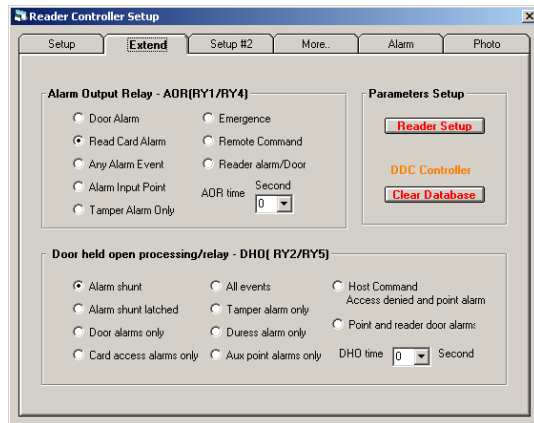
Delay force Open Door Check – this is to delay the alarm signal while the system is checking the door status. If access card is not being read, it would be a Forced Open incident, but the alarm signal is being delayed for time of verification before alarm signal generated.





- **Unlock Time**  
User can select from 01 to 255 seconds after the normal card read and the time of opening the door. This time include the time for remote control open the door.
- **Unlock Multiplier Time**  
Between normal card reading and the time of opening the door, can be delayed by a factor or 1-3. This time include time for remote control of opening the door.

### Page 2 Extend Function



There are total of 4 Relay outputs (1A, 2A, 1B, 2B) for the double door access control system. Every door has two sets. User can click and select the output device to be used.

- **Alarm Output Relay – AOR (RY1/ RY4)**
  1. Door Alarm (for showing the alarm status) – when door is being opened without card read, or being force open, or door not closed after being open.... All will trigger to send off an alarm.
  2. Read card Alarm (showing the read card alarm status) – access generate read card alarm after card read, e.g. time zone error, wrong door, wrong system signal...etc
  3. Any Alarm Event – when either door alarm or the read card alarm (any one of the two happens) the controller will issue any alarm signal.
  4. Anti-temper alarm – when the card reader or the double door controller was being attempted to open, (cover removed, screws loosen...) the anti-temper function will detect the status and generate an alarm signal
  5. Other Alarm Input point – the double door controller has 2 zone input points for connection to alarm controller. When the alarm detector sound off the alarm, the relay will output the signal.
  6. Emergency
  7. System computer transmit command

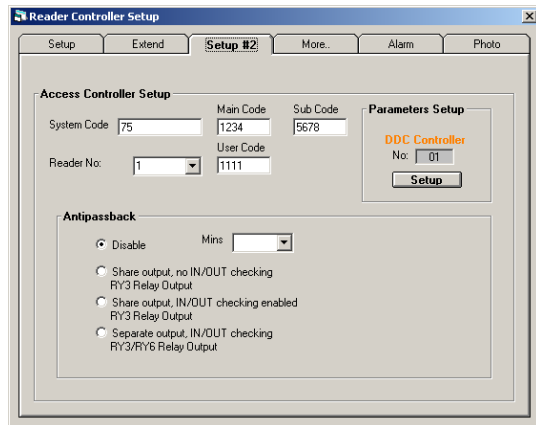
❖ *Any one for the above 1-7 has an alarm , relay output.*
- **Parameters Setup**  
Reader Setup – When user have set up the card readers, click this key for any individual reader set up  
Clear Database – this is for clearing the data within a certain card reader within the DDC Controller
- **Door Held Open Processing/ Relay – DHO (RY2/ RY5)**

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

### Page 3 Setup No. 2

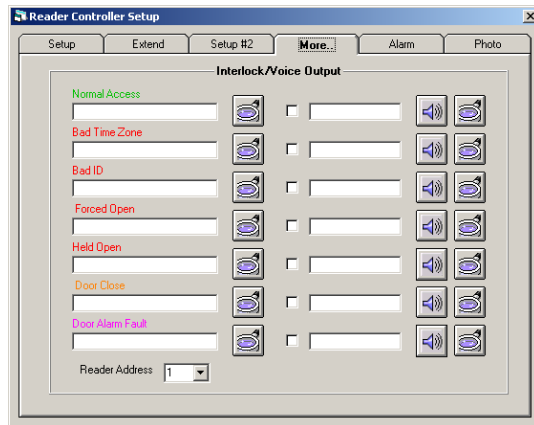


- **Reader location number**  
User click on the down arrow to select the card reader number.
- **System Code**  
System code is the access control system number. In order to verify the cards being used in the system, (different system uses different system codes) user must make clear the double controller number and the door sensor system number before entering the systems codes.
- **Main Code[1234]**  
There are three types of double door controller system codes, i.e. Main, Sub, & User codes. Main code can allow access into the double door controller programming mode, to set and to change all the operating functions, including changing of the main code.
- **Sub Code[5678]**  
Sub code can be allowed into double door controller for program setting, change operation and control function settings, but cannot access into the main system and sub system code settings.
- **User system PIN code [user set]**  
User/operator can use the normal PIN code, allow entering into the DDC programs, changing & operating on the function settings.
- **Prevent repeat re-entry (set in/out reader time control on one access door)**  
To prevent the repeat re-entry, within a time period (select 01 to 60 minutes) is set to non-valid for the same card number through same door. This is to prevent the card holder gives the card to another person to access thru the same door within short period of time.  
  
Example:
  1. Temporary Invalid [Prevent repeat re-entry]
  2. Specific Door – assign only one entry and one exit card reader to control one door.
  3. Specific access entry – assign specific access entry /exit for going in and out. One entry card reader and one exit card reader to control the same door. The user must exit (read card) from the specified reader in order to re-entry it again.
  4. At the same access corridor, one reader for entry and one reader for exiting, each one individually controls one door, (reader card is needed for both entry & exit).
- **Parameter Setup**  
Press **Setup** MEGAsys will renew all the system data within the DDC Controller.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

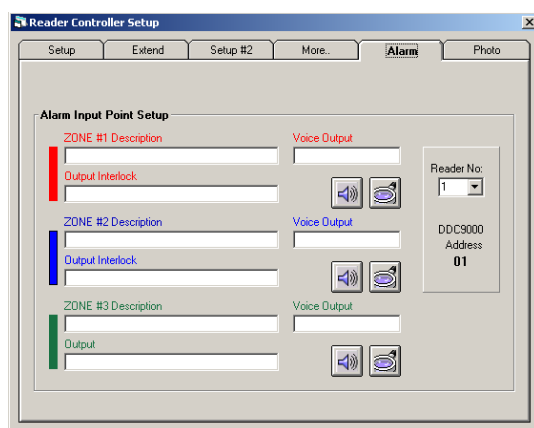
### Page 4 – More..



The interlock output function is a very important part of MEGAsys system. Every card reader device, during the “read” mode can all be programmed to have the interlock (normal or alarm) output. The user can write his own Macro Output Command at (MAC.001) file. And every output can also attach with voice message, by setting the voice file at (\*.WAV) to be delivered concurrently during normal or under alarm mode.

- Normal Read Card  
Under normal card reading interlock output, e.g. turn on light, turn on alarm, start recording, voice broadcast, or display card holder photo...etc.
- Time / Zone Card Read Error  
Under error card reader output, e.g. turn on light, turn on alarm, start DVR & camera recording, voice broadcast, or display card holder photo...etc.
- Card Read Error (wrong card/system number)  
Under error card read output e.g. turn on light, turn on alarm, start DVR & camera recording, voice broadcast, or display card holder photo...etc.
- Adnormal Door Open (force open)  
Door status interlock alarm output e.g. turn on light, turn on alarm, start recording, voice broadcast, or display card holder photo...etc.
- Normal Door Close  
Under normal door closing interlock output, e.g. turn off light, turn on alarm and voice broadcast...etc.
- Normal Door Access Event  
Under normal door status interlock output, e.g. turn on light, turn on alarm, start recording, voice broadcast, or display card holder photo...etc.

### Page 5 Alarm Parameter

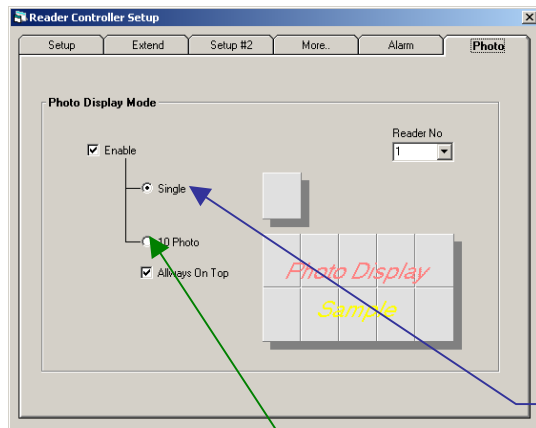


There are 3 sub-alarm input points for every card reader address, they are Z6, Z7&Z8, when any one of them are being triggered, system will activate a relative Macro Output Command.

- Card reader address – i.e. DC 9000 address number (start with 1 to 60)
- When the sub-alarm input point Z6 being triggered, the system will execute the **Zone #1** interlock output and pre-edited voice output.
  - **Zone #1 input define** -- insert alarm instructions.
  - **Edit voice broadcast** – click onto the (magnifier 按 glass) to search and select the suitable voice /word.
  - **Interlock Output** – insert the necessary interlock output commands.
- When the sub alarm input point Z7 being triggered, the system will execute the **Zone #2** interlock output and edited voice broadcast.
  - **Zone #2 input define** – insert alarm instructions.
  - **Edit voice broadcast** – click onto the (magnifier glass) to search and select the suitable voice /word.
  - **Interlock Output** – insert the necessary interlock output commands.

- When the sub alarm input point Z8 being triggered, the system will execute the **Zone #3** interlock output and edited voice broadcast.
  - **Zone #3 input define** – insert alarm instructions.
  - **Edit voice broadcast** – click onto the (magnifier glass) to search and select the suitable voice /word.
  - **Interlock Output** – insert the necessary interlock output commands.

### Page 6 Photo Display



When the user is using the card reader, and entering that door zone, the device has the select & display card function, the system will display the user's card photo.

- Card reader address – select the photo card reader number between 1 to 16.
- When the space next to "enable" being pressed , the system will use the space next to the card reader info on the monitor (for single or for the group of cards)
- Always on Top – Select and press this box, to avoid that the photos being covered by the window.

During card read,  
system will only  
display one card.

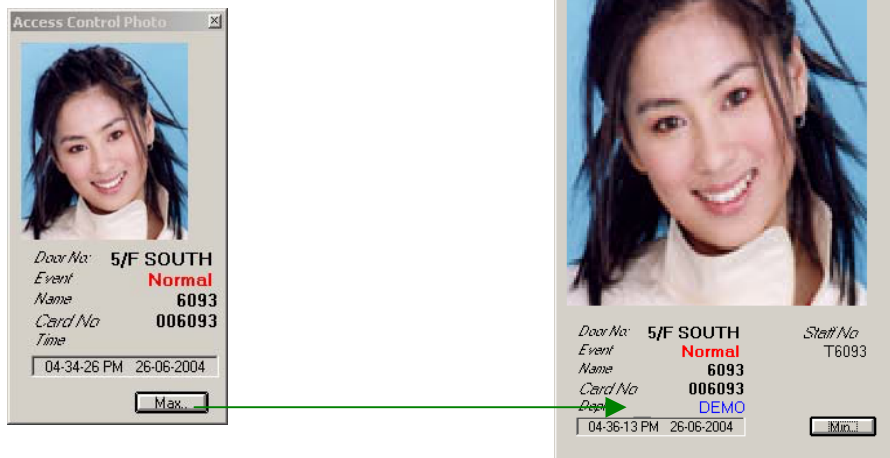
During card read,  
system will display 10  
cards.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

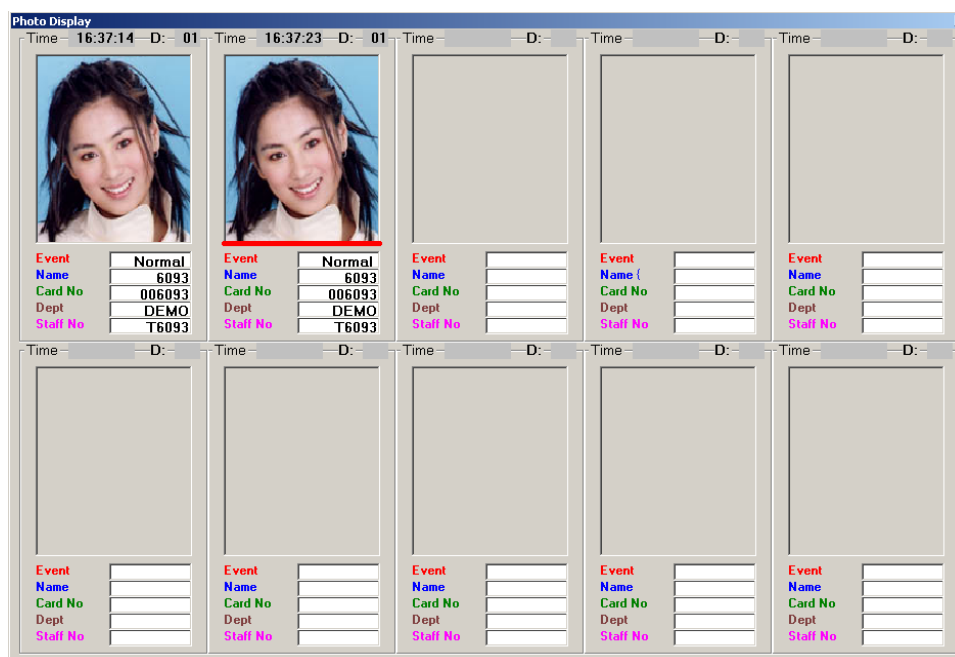
Example:

### Single display



- ❖ When press key, system will display enlarged photo of the next who enters (as right).

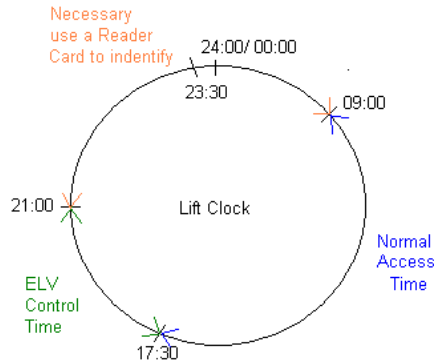
### Small Group Display Example



# MEGAsys – Server

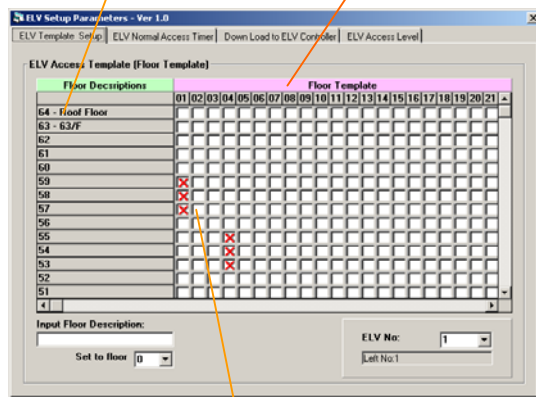
## Graphic Alarm Display System Software Programming Manual

### VII. ELV Control Parameter

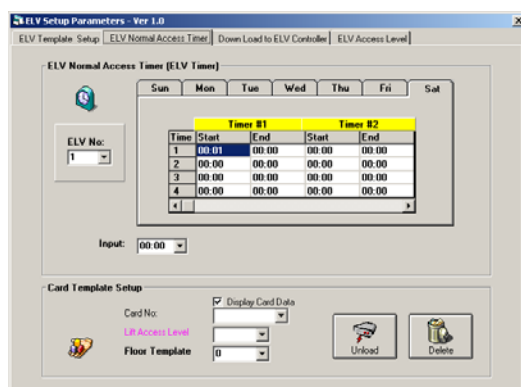


Floor  
Description

Grouping  
1-64



Double click when  
the mouse is on that  
function.



ELV Control is being used for the elevator system. Each of the MEGAsys system can connect up to 16 (Lift Controllers) .

When elevator system is at after work hours, it enters into a ELV Control mode and the system will take over the elevator time management. This function need to be set properly with MEGAsys.

- ❖ *Normal Access Time – all the elevator users do not need to use the card reader to reach to designated floors°*
- ❖ *ECU Control time Zone – Users' cards must all be read before getting to designated floors, and the user's access floor will be displayed on the elevator floor.*
- ❖ *Time setting – please refer to page 2 of ELV Normal Access Timer table.*

- Path: [System Software Programming] → Select [Access Control Programming] → [Elevator Control Programming]
- [ELV Setup Parameters] window will pop up.

There are 4 pages in this window: ELV Template Setup, ELV Normal Access Timer, Down Load to ELV Controller and ELV Access Level.

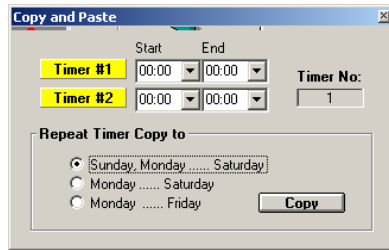
#### Page 2 ELV Template Setup:

- ELV Access Template – this is to show ELV system current usage status.
- Input Floor Description – click onto the box space , and then use the keyboard to input some simple description
- Set to floor – click the down-arrow on this box to select and add some simple words to define the floor number from 1 to 64.
- ❖ *Example: first Input Floor Description, then add simple words such as G/F, 1/F and company name : such as EVERTECH, then Set to floor.*
- ELV No. – ELV 1000 (1-16). After user select the address of ELV 1000, the description of the elevator will appear.
- ❖ *Name of elevator can be download from page 3 of Down Load to ELV Controller's ELV (input or edit).*

#### Page 2 ELV Normal Access Timer:

- ELV Normal Access Timer – can be set with 7 day per week and 4 groups per day.
  - ELV No. – ELV 1000 location address (1-16). There are 4 ELV time group for every ELV 1000 location number. User can set up 4 different operating time group for each of the elevator.
  - Input – this is where user select the time e.g. 17:00

*How: first, select days (e.g. Sunday to Saturday). Then Input time selected (17:00), by left click when the mouse is on Time 1 line of the table. If the user double click the right side on mouse at start/end time, a window [Copy and Paste]*



will appear – this window helps user to conveniently set up the daily time table.

Example: if the certain time period is (09:00 – 17:30) is being used on daily basis, the user must set up the time within the Timer #1 window. Then, Repeat Timer Copy to the box. Select to use one of them. E.g. select the 2<sup>nd</sup> item Monday to Saturday, click the dot next to the item and then click the **Copy** key will do it.

This way, user can use the ELV Normal Access Timer to set up the time for all the 6 days (Mon to Sat) except the Sunday.



➤ Card Template Setup – this is where user set up for the card holders which period of time can use elevator.

- Access card number – user can get all the user card numbers with in the system.

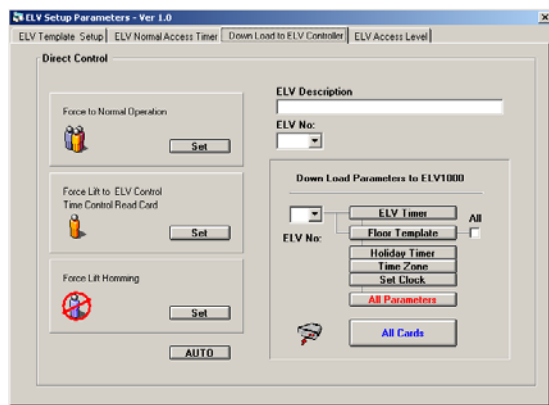
- ▣ Display Card Data – when this function is activated, every time the card holder present the card to the reader, the display will show all the data about the card holder.

- Elevator Access Authorization– enter the card holder's elevator usage priority level, which has (1-16) levels.

- Floor Template – enter here to define card holder can use which of the (1-64) Card Template.

- Sending Data – after user has finished the setup procedure, click onto this key, data will be sent from the MEGAsys to the ELV controller.

- Delete – if user want to delete the card holder info/data from the system, first select the card number and then click this key to delete.



### Page 3 Down Load to ELV Controller:

➤ ELV Description – enter some simple words to describe this elevator name or its work/location nature.

➤ ELV No. – enter the ELV controller number (1-16) of matching ELV Description.

➤ Down Load Parameters – here are total 6 different way to download for user to select.

- ELV Timer – take the Page 2 ELV Normal Access Timer, and download it to any one of the ELV 1000.

❖ *Method of usage: first select the ELV No., e.g.: #1 ELV 1000, then click the **ELV Timer** key, system will take the time table which belongs to #1 ELV 1000 and download to its elevator control device.*

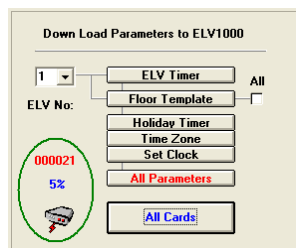
- Floor Template – take the Page1 ELV Template Setup, the data of Floor Template and download to one or all the elevator (s) ELV 1000.

❖ *Example:  
If the left ELV No. select as #1, click **Floor Template** key, the system will take all the data belongs*

to this and download them to the controller of #1 ELV 1000.

If the right side, ALL being selected (i.e. ALL), click Floor Template key, system will base on the window[outer telecom device status display] all the data setup in ECU, and download them to the controller. That is, all the info within the Floor Template which belongs to ECU #1, #2, #3 & #4 elevators under use.

- Holiday Timer – take the MEGAsys system[Holiday Setup] data and download to one of the ELV 1000. (please select needed ELV address before download).
- Time Zone – take the MEGAsys system[Time Zone] data and time, download to one of the ELV1000 (please select needed ELV address before download).
- Set Clock – take the MEGAsys system [clock time] and download to one of the ELV1000 (please select needed ELV address before download).
- All Parameters – take all the above 5 item's data and totally download to all the ELV 1000 elevators being in use.
- All Cards – take all the card reader data within the MEGAsys system and download them to the elevator ELV 1000 being in-use. During the download process, there will be a window to show all the card numbers (as shown here in the green box).

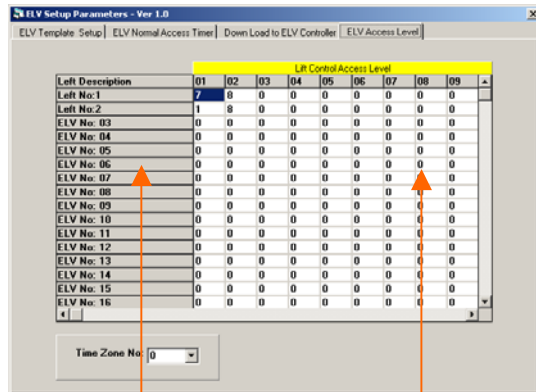


This 3 functions are for Normal / Emergency use.

- AUTO – cancel the above 3 functions, and bring the system back to normal operation status.
- ❖ Example: certain elevator during the work hour, due to some reason, was setup by the operator as "Force Lift Homming/shut down" status. But after the work hours, when it enters into the ECU control time period, the elevator still cannot get back into normal operation. The reason for this is because the system still cannot cancel its shut down command. Operator must click AUTO key to release the elevator back to its original working status; i.e.



now the user has the card reader confirm the card number and can use the elevator now.



Lift Description here is being setup on Page 3

ELV Access Levels (1-16), User Priority Setting (Setup at Page 2 Card Template Setup).

### Page 4 ELV Access Level:

After the work hours, all the elevators will stop being used. If need the elevator service, user must set the elevator to [Elevator Control Time Zone]. This page is for setting the functions after the normal working hours.

- Time Zone No. – which is selectable between 1-16 which has 16 groups of time for [Time Zone Programming].
- ❖ Method of usage
  1. Select from the Time Zone No. e.g. #1 Time Zone.
  2. Double left click the mouse between the cross-point of Lift Description Access Level. Example: Main Lift No 1 and #1 Access Level. The "1" of #1 Time Zone will be entered into this point.
- ❖ For more about the ELV Control, Setup and operation, please refer to Chapter 8 Section VI of the MEGAsys Software Quick Start Manual Ver.2.3 (For MEGAsys Ver.3.xx)

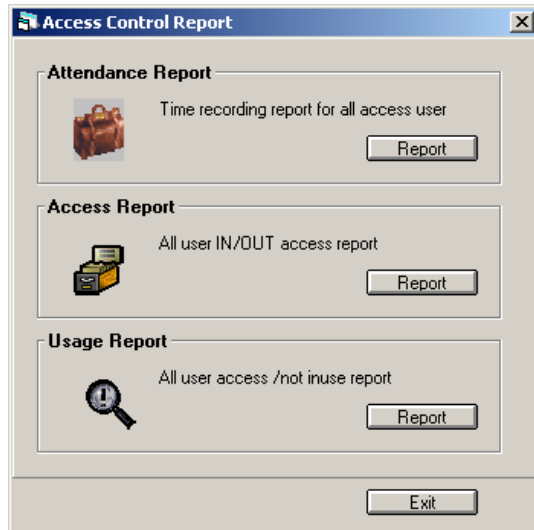
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### VIII. Access Control Report



This report allows user to check any card holder's info (with table & print) within the system at anytime. This function has 3 portions: [Attendance Report] , [Usage Report] and [Status Check].



#### ➤ Attendance Report

User can selectively generate or print this report, i.e. by the person's: card number, department, time & date of attendance, on-time/late arrival, absence...etc event reporting.

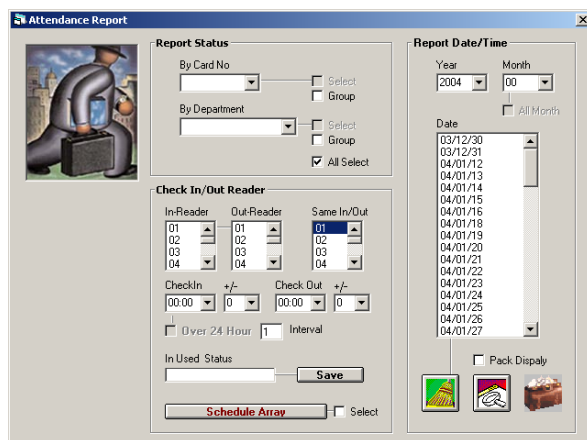
#### ➤ Access Report

User can selectively generate report on person whose entries into the access control doors, e.g. card number, department, date & time of access...etc.

#### ➤ Usage Report

User can check and verify the record of any access card has been used within a certain time and zone (usage status).

#### ➤ Attendance Report



This access control system can provide a very discipline oriented management for employee attendance requirements. This requires the user to carefully setting of the discipline, standard, and then program the access control system. After system properly set up, each of all the card holders' in/out, date/time, hour/minute, early/late...data record will be readily available for the management's control, analysis, and enforcement of disciplines.


Press down the down arrow of the Report Date/Time, the window of Attendance Report will then appear.

#### • Status Report

Before printing the report out, the user must select the status of report needed: e.g. card number, department, or all info.

- Card number – Once card number selected, press the Group key, and select report number and the period range of the report

#### ❖ If card number is chosen for the report format,

then, another icon  will appear, press this icon, window will display Attendance Report as per user specified. Afterwards, all the report detail data can be input onto Microsoft EXCEL file for further calculation or analysis.

- Department – once this is selected, press the sub-group (1 or many groups), then select the period of data needed to be printed.

- Department – if selecting the department, within the same department, user can select one or several groups of the department. Then select the time range for print out of report.
- ❖ If department name is being used for the print request format, user will see the another icon



within the date box. Click onto this icon, there will appear another window – Attn. Report, of which there are 3 pages, for user to select and edit the report content and format...etc.

### Appendix – 4.5.8.1: Edit Attn Report

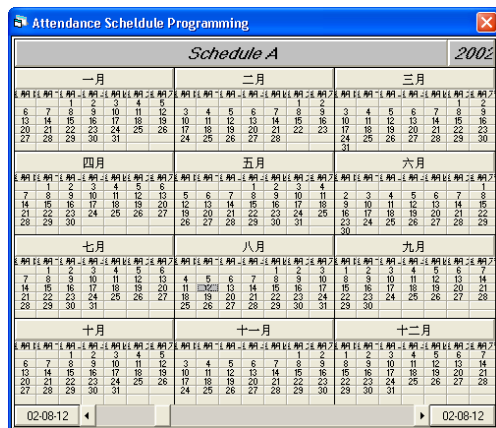
### Appendix – 4.5.8.1: Schedule Array with Example

- Select all – click onto this function, means the system will print out all the card holder data.
- Entry/exit card readers  
User can select which card reader is for entry card reader, for collection all the data of employees coming to work. And which reader is for exit card reading, for collecting all the employee leaving work data. And last, select readers for both entry & exit card reading for collecting both the arrival & departure time data of employees. (include “late to work” time in minutes).
- Separation of report dates
  - Setup the date, month, year of the period that need attendance report. User can click and select with the mouse. If user select a month, then the attendance record of the entire month will be displayed within the selected zone.
  - Clear – this will clear all the user selected dates
  - Click Att. Report key – system will start processing the attendance report.

#### ➤ Schedule Array

This is to edit/program for different employees, different work shift (morning, mid and night shifts). Some company is 24 hours operation, and every employee do not work the same shift all the time. This section is for this type of set up. Click the entry/exit card reader box **Schedule Array** there are two windows will show up – Schedule Control and Attendance Schedule Programming.

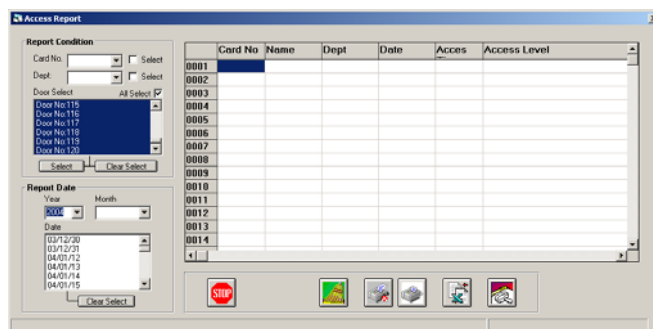
- Schedule No. – there are 24 Schedule numbers, from 1 to 24.
- Description – for setting with each Schedule some simple words for identify/reminder of the schedule.
- Entry/exit card readers – user can select single exit / entry reader or dual reader (one for entry, one for exit) But cannot use 2 groups of readers simultaneously/concurrently. However, one type of reader can have more than one access door number.
  - ⌚ Entry reader – Select this Schedule Number for using this reader, number between 1-60.
  - ⌚ Exit reader – Select this Schedule Number for using this reader, number between 1-60. When user selected the entry reader, he must also select the exit reader at the same time.



- ❑ Entry/exit reader – Select this Schedule Number for using this reader, number between 1-60. This type of reader can same time execute both entry and exit card reading.
- ❑ Arrival time – click the mouse on the arrival time (time to coming to work). Select the time variance (next to it). Maximum 30 minutes for variance.
- ❑ Departure time –click the mouse on the departing time (time of leaving work to go home). Select the time variance (next to it). Maximum 30 minutes for variance.
- ❑ Interval – usually means the time between the 2 days when coming to work and leaving work. Example: arrival for work time is 20:00, departing from work time is 05:00. Thus, Interval time need to be setup, and must be at the departing from work time. Interval – is measure by hour as unit. Allow the user with a upper limit of +/- (how many hours from the depart from work time). Define clearly to the system, which card reading is fro recording the arrival to work, and which card reading is for depart from work, to avoid confusion within the system.
- Schedule (A-L) – click the page between/ within Schedule (A to L), any page will show a window– Attendance Schedule Programming, within which window the user can design the proper Schedule for usage.
- User Setup – press this key to do the User Schedule Setup
  - ❑ Card Number –MEGASYS system under use, has all the card holder number .
  - ❑ Schedule No. – select a proper Schedule number (1-24) for the card holder employee.
  - ❑ Name – name of the card user holder
  - ❑ Dept –is the department name which the card holder of this card number is belong to
  - ❑ Employee number – is the user's employee number that pair/match the corresponding card number.

### Appendix – 4.5.8.1: Edit Att Report

#### Report



This function is to get from the system about any card holder's info/data, or the entire data file about the card holder, to understand today's or entire month's activity record, and able to check on one card holder or all the card holders within the system.

Example: today is 98/12/16 user select today to check the card holder of number 52008. Click onto the icon (magnifier glass) system will display all the record on 52008, i.e. arrival to work at 9:00am, departed from back door at 9:44am, entered into the company's east entrance at 9:09:11am, immediately left and returned at 11:12:37am back to the company again. The operation can easily check on all the attendance records of all the company employees. He can also select the print key, press to make a hard-copy print out immediately.



Stop Print

Clear Display Content

Pause Data Printing



Print All Data

Input Data to EXECL  
(calculation table) for Print

Start to Print

- ❖ To stop the report in the middle of print,, press **[Stop]** key. Press the **[Start]** key again, the system will continue to print the follow report. But this will be confusing. It is better to press the **[Clear]** key to clear all the info on the screen and start printing anew.

### ➤ Print Status

The system provides 3 types of reporting methods, i.e. by card number, by department or by both. User need to click onto the method chosen to tell the system how to print.

### ❖ Data Display

- Card number – is the company assigned card number for the employee
- Check date – user can select the check date by yr/date/hr/min
- Access door – name of the door card holder is authorized to pass
- Check method – user can choose the checking method i.e. by card number , department, or by all

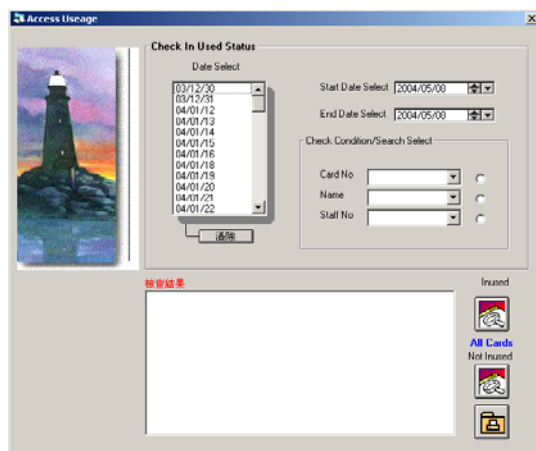
### ❖ Click the mouse on the report over the card number, system will display info as below:

- Photo of the card holder
- Event (checking) which is a normal inspection operation step
- Access door which card holder is allow to pass
- Name of the card holder
- Time – is time which card holder pass this door



### ➤ Check Use Status

This function is to help user to seek out the cards which are not in-use.



### ➤ Usage status checking

- Date select – system will list out all the working days, if the user need to check a certain date, he can select to see that day's card use status.
- Start date select – press the down arrow, window will show dates, user click onto the date selected, that date will change into yellow color.
- End date select – user press the down arrow, he can select the end date (as shown in right)click the selected date to turn to yellow, the date will display
- Check condition/ search select  
There are 3 items for user to choose, he can input anyone or all of them, the system will help user to search the needed information.
  - ① Card number – display all the user card number, after select, click the black dot next to the item.

- ☞ Name – display all the card holder name in the system, after select, click the black dot next to item for display.
- ☞ Employee number – display all the employee numbers in the system after select, click the black dot next to item for display.

- Check In-use  
User can click this icon to find out a certain card holder by the (name, card number, or employee number...etc info)
- Search Not In-use  
Once this key is press, system will search out all the cards not in use. User need not input number.
- Search result  
System will print out all the search result here, if the user need, he can press **Print** to get a full hard-copy report.

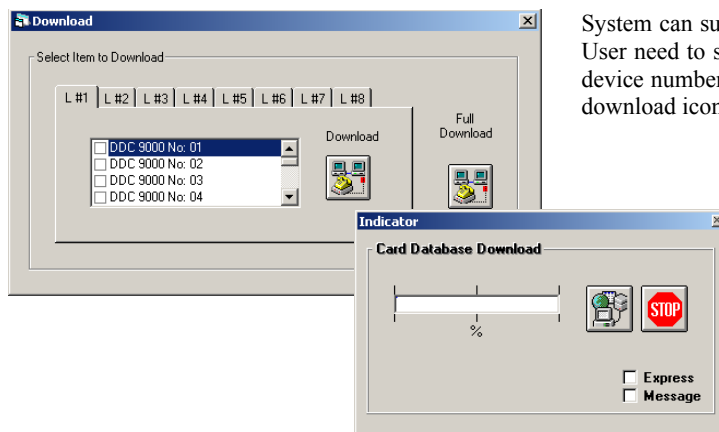
### Appendix – 4.5.8.3: Access Usage

#### IX. Download Read Card Info

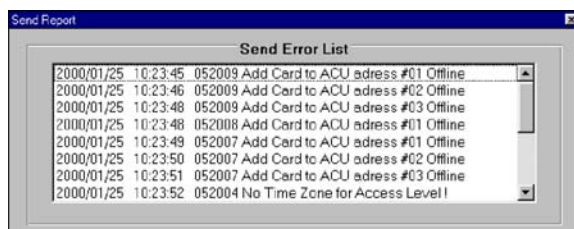


User can select portion or all of the DDC9000 info to be downloaded.

This function save the user from printing the entire report every time when a new DDC 9000 unit is added to the system. Now user can select and print the newly added device. Simply select from the window the new DDC 9000 number, e.g. 2 new DDC 9000, numbers: DDC NO: 04 & DDC NO: 05, user click onto the #04 & #05, until they turn blue, then right click the download icon, a new icon (as shown) will appear. Right click this icon, and wait for 100% download to complete.



System can support 8 networks, each with 30 units of DDC9000. User need to select the suitable network, and add the DCC 9000 device numbers. e.g. : 1<sup>st</sup> network has #3 & #4 DDC 9000. Click download icon, and wait for the 100% successful download.



- ② Once there is system error, system will output a list, telling the user what is the problem happening, e.g. card reader off-line...etc.

Example: card reader 52007-52009 Add- card error, which is due to ACU card reader off-line.

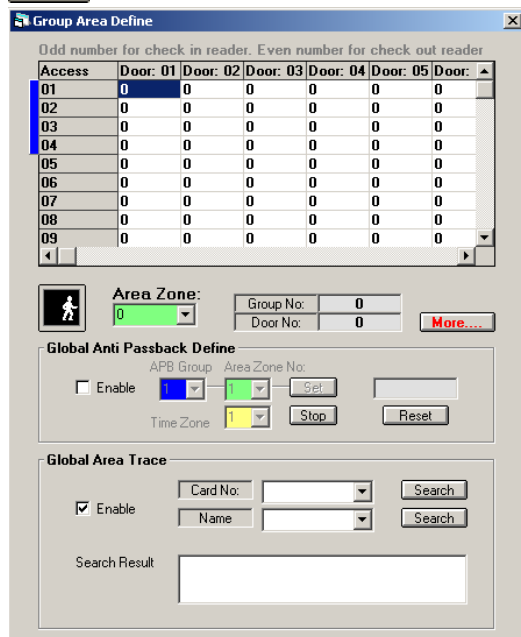
Example: 52004Time Zone error, (No Time Zone for Access Level!), means the card reader is not being set properly(without time zone)

### X. Time Zone Status Display



This is for the checking of the time zone situation within the system. As shown here, time zones (Time Zone 1, 2, 3 and 4), have been opened. And the Time Zone 2 (Access Level) is being authorized to use.

### XI. Group Area Define

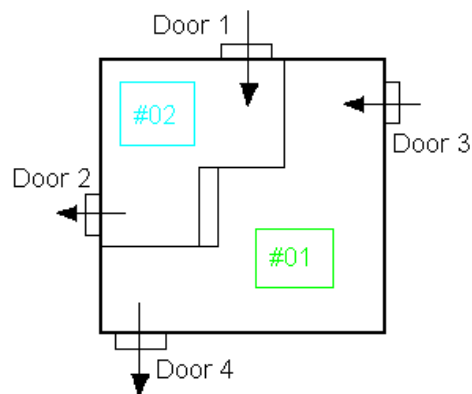


#### ⑨ Group Access Define:

The access area of the user can be separated into groups, for the separate access reading of entries. The entire system can have a total of 128 Access Groups. Each group comprise of several access doors. Example: **#01 Access group** enter from door 03, exits from door 04. This is defined as **Group 1**. **#02 Access group** 分 enters from door 01 and exits from door 02. thus this group has been defined as **Group 2**.

Usually, odd number door is for entrance, and even number is for exit doors.

Click **More...** key, to inspect the total number of access person with that group.

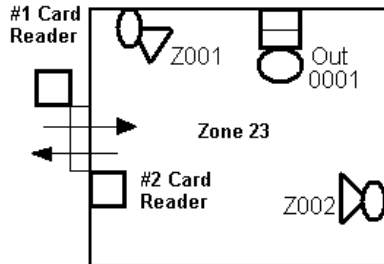


Zone **#01** can enter from door 3 and can exit from door 4  
Zone **#02** can enter from door 1 and can exit from door 2



Card holder of zone #01 can enter thru the door number 1, 3. When the first user enters into this zone, the Interlock Macro Command will be initiated. (User > 0).

And when the last user leave/exit from zone #01, Macro (User = 0) will be initiated. Please refer to the Tracking Interlock Macros.



Example as below:

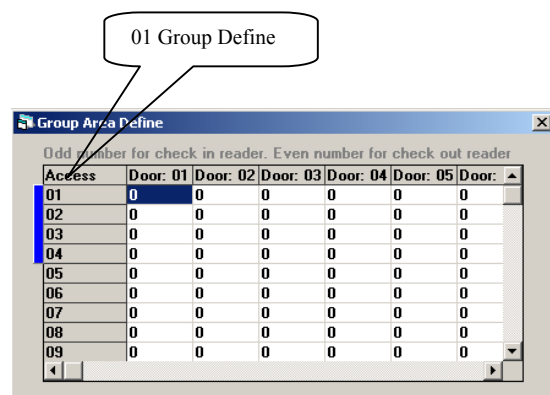
When entry reader 01 being used for zone #23, while exit reader 02 also being used to guard the zone 2, there are 2 alarm detector and one light open/shut switch within this same zone. The conditions for usage is as below:

- 1) When the first user enters into this time zone, alarm detectors 1 and 2 will be switched into Access/Shunt mode, and lighting will be turned ON.
- 2) When the last user leaves this time zone, the alarm detector will return to its Secure /Alert mode, and lighting will be turned OFF.

The zone head count will be (User Count>0) when the first user card being read by reader 01 when entering zone23. Interlock Alarm Output 1 & 2 will shunt, light control being turned on for use. Thus when the 2<sup>nd</sup> or more users enter this zone, it will no longer affect the alarm detector and the light switch.

The zone head count will be (User Count=0) when the Last user card being read by reader 02 when exiting the zone23. Interlock Alarm Output 1 & 2 will return to Secure mode, light control being turned off. Thus when another users exit this zone, it will no longer affect the alarm detector and the light switch.

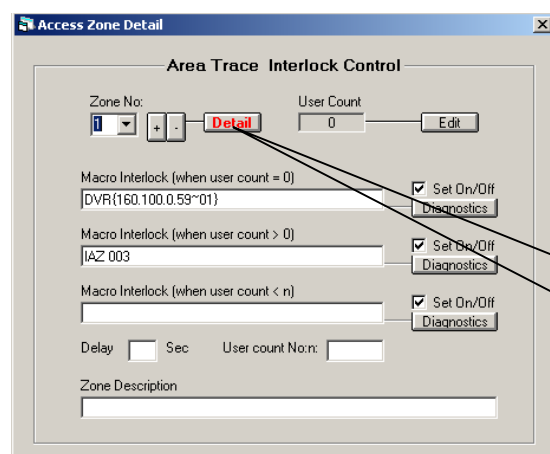
(Notice : User's normal use of the time zone and time groups, reading cards on 01 & 02 card readers).



Group Area Define steps as below:

- 1) Click onto this icon  to enter into group area define:

Enter 23 (zone) under Door 01 & 02 and , meaning that entry/exit thru 1 & 2 door access of that zone, can use the Group Access 01. As shown on diagram next:



- 2) Click **More....** to enter into the Macros programming as below:

Enter under (User>0) the below commands:

**SHZ 0001, SHZ 0002, ACU 001 OUT 001**

Alarm detector 01, 02 shunt, RPU 001, 01 signal output.

Enter under (User=0) the below commands:

**SHO 0001, SHO 0002, ACU 001 OUF 001**

Alarm detector 01, 02 on secure alert, RPU 001, 01 stop output.

Can check the number of users within the area & details. Please refer below:



# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

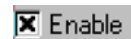
**Card Database**

Card No. 53110  
 Name: Erica  
 Department: ACC  
 Staff No 53110  
 Issue Date 2003/ 8 /15  
 Access Level 1  
 Access Group 1  
 Valid Date 2000/12/31

**Global Anti Passback Define**

☒ Enable

3) Open Global Area Trace



4) Add zone group number 01 to the card holder

Using Group 1

### ⑨ Global Anti Pass back Define:

System can use **total** system anti passback. Once happens, system will recalculate and

Shown as above:

Card number 052008 using time zone #01°

#01, (Door:01), (Door:02), (Door:03), (Door:04)  
 1(1 Zone) 1(1Zone) 1(1zone) 1(1 Zone)

This example means, when this card number enters door number 1, 3, he can get into Zone 1 . When exit from door number 2, 4 can also leave Zone 1 . Once enter zone 1 , he must leave zone 1 before he can enter zone 1 again. If anti-passback occur, card number will automatically display; which need to press **Reset** before being allowed back into that zone again.

**Global Area Trace**

☒ Enable  Card No:   
 Name:   
 Search Result

### ⑨ Global Area Trace

User can directly key in the Card No or Name, and press Search. The search result will be displayed. (as shown here).

005115 at Zone 001 – card holder with No. 5115is now in Zone 001.°

**More....**

**Access Zone Detail**

**Area Trace Interlock Control**

Zone No: 1    User Count: 2

Macro Interlock (when user count = 0) ☒ Set On/Off   
 MAC 009

Macro Interlock (when user count > 0) ☒ Set On/Off   
 MAC 010

Macro Interlock (when user count < n) ☒ Set On/Off

Delay  Sec User count No.:

Zone Description

### ⑨ Area Trace Interlock Control

User can use the number of person 0-128 and execute a series of Interlock actions. If the number of person in the zone area is 0 or greater than 0, can execute such function.

- EDIT – this is for changing the number of people directly input into this time zone.
- TEST – this is for direct testing of the interlock action in process

Example 1 : When (Zone No:1) without any person, outputs Interlock action MAC 010.

Example 2 : When (Zone No:1) has more than 1 person, outputs Interlock action MAC 009.

**Detail**

Card No

Select and click the card no, user would check the card details.

**Area Detail** This can trace the details within this area, (number of people and other details)

If there are two person in the Zone 1 with card number 005115& 005116 °

Remove – can allow edit the content within this zone

Search – can allow seeing if person with a certain card number is in the zone or not

Total – total sum of people within this zone

Click onto the card, user can check the content of the card number.

Card holder details:

- Card Number
- Name
- Other name
- Department
- Employee number
- Access level

### Important

Access control is a network system, on-line communicate with the central system. Computer software will continuously polling each remote access controller for the latest status. Immediately record all the events (date, time, location). Thus the communication is absolutely essential. If during polling, system discover access controller is off-line, it will immediately display (& record on the hard disk drive). User must resolve the off-line problem at once! Since access control management will continue to operate & execute under off-line, (e.g. getting card access level from reader, and other normal control work). But the computer cannot record event (not until communication resumes). Only when system is “on-line”, can information be sent back to the computer and by then be recorded into the computer. Thus the reliability and accuracy of the system very much depends on the network communication. Please pay much attention to the “on-line” status at all times!

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

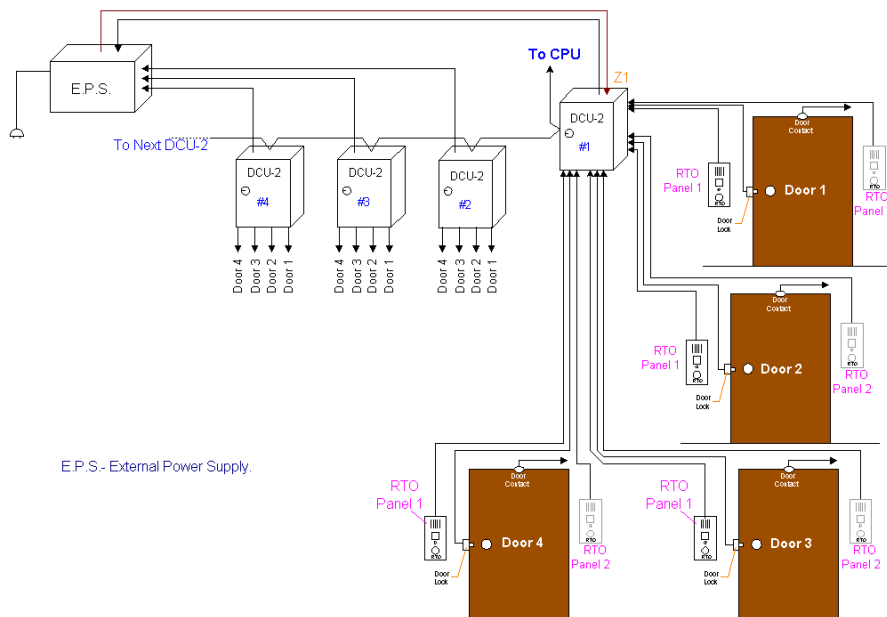
### XII. DCU Door Control Unit Programming



DCU is short name for Door Control Unit. It is responsible for door control and operation, e.g. open/close door, other interactive actions, door being forced open, or open duration exceed time limit, or time of door closing after being open...etc. Revision 4.0 provide one type or DCU for user to operate.

- ⑨ DCU-2 – is a 4 door controller device. Within the software, there are 4 doors x 2 RTO panels, which all can be programmed.

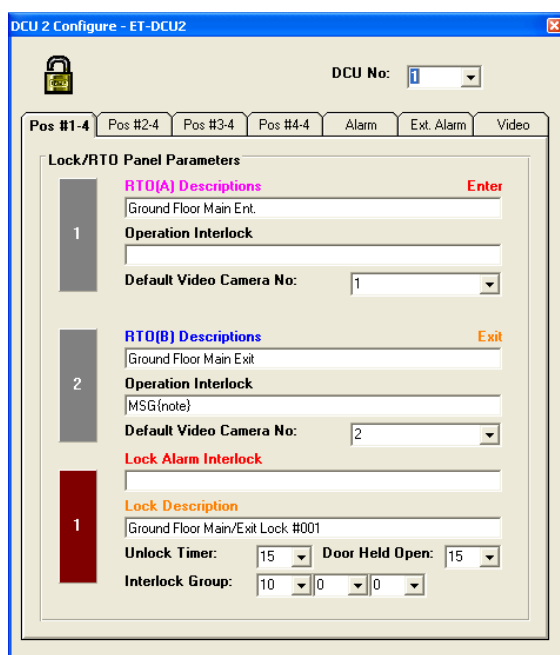
#### ⑨ DCU-2



<4.5.12.2> schematic DCU-2 electric door control device can control 4-door/lock

Figure 4.5.12.2

- ❖ If the system uses the Door Lock Control, the DCU-2 function will automatically select and activate the DCU-w control video window.
- ❖ Please refer to MEGAsys Quick Manual to find out more on the setting up of DCU-2.



DCU-2 control device window has 6 pages, including 4 pages on the door lock and video intercom controller, DCU Alarm Control and Ext Alarm.

DCU No. – select DCU between number (1-128), click the down arrow to select.

Page 1 to 4 Pos #1-4/ Pos #2-4/ Pos #3-4/ Pos #4-4 (DCU Configure):

This is for the configure of door lock and the relative RTO Panel. Example: Door lock or RTO Panel locations, Interlock Alarm Macro Commands, monitoring CCTV cameras, door open time and number grouping...etc

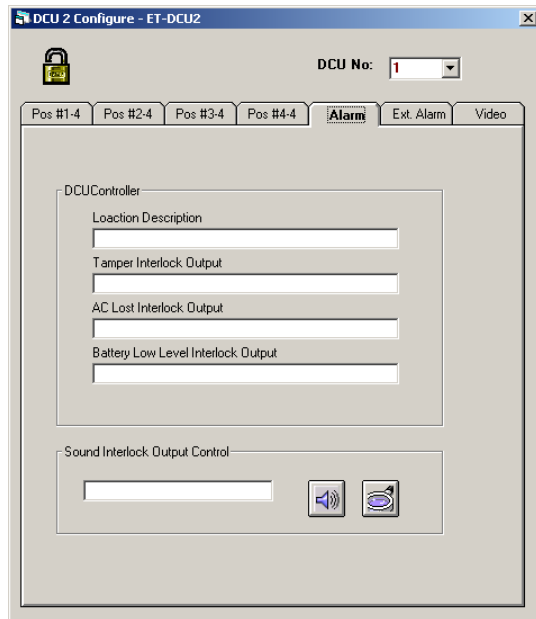
- RTO (A)/ (B) Descriptions – Input RTO (A) / Output RTO (B) need simple names for identification.
  - Operation Interlock – When RTO (A)/ RTO (B) encounter faulty incidents, the system must execute a set of Macro commands.
  - Default Video Camera No. – Normally, every access door or every RTO Panel has one set of camera to record down the event at that door or RTO Panel. Need to enter the monitoring camera number. Example: camera #1 responsible to shoot and record the events at Door #1 RTO (A) Panel.
  - Lock Alarm Interlock – this is for inputting that door's Macro commands. Example: if the door was forced open or opened for long overdue time...etc.
  - Lock Description – this is for entering the door location and or any other simple words to describe the door.
  - Unlock Timer – this is for setting up every door's Unlock Time. Unlock Timer can maximum set for 15 sec (between 1-15seconds) i.e. after every door being opened, the system will count down from 15 seconds. If after 15 seconds is up, the door is still not closed, the system will automatically close and lock this door.
  - Interlock Group – this for door grouping, the maximum is 128 groups of doors. Every time a door is being opened, the other doors within the same group cannot be opened. Until the original door is being shut. Then, the other door within the same group can be opened.
  - Door Held Open – There is a setting "Door Held Open" for every door, for a max time of 15 sec. (由 1-255 秒) . If the door was open (without being shut) exceeding the time limit, the alarm will be trigger to report the event.
- ❖ *If there is a need, each door can be added with a Voice/sound Macro output and belongs to individual door's Lock Alarm Interlock.*

Represents data for each door No.  
DCU-2 provides 4 door No. for  
their own unique data needed.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Page 5 – ACU Alarm Control:



Info about setting the ACU-2 control – example: DCU-2 control installation location, interlock action when controller being disassembled, low battery when AC supply disconnected, power loss actions.

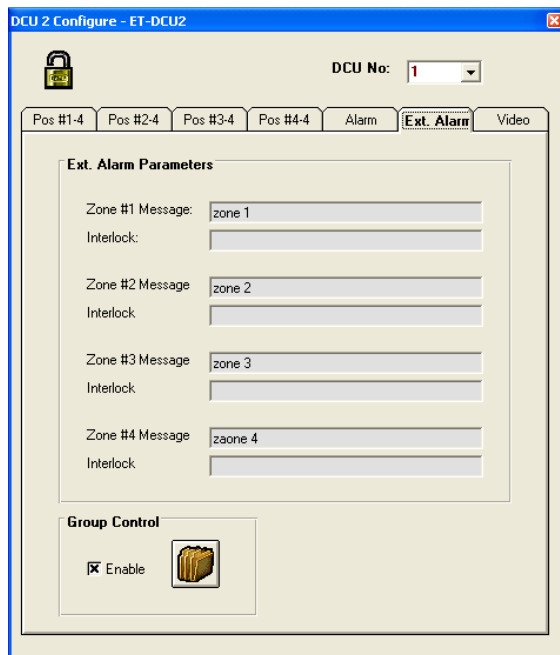
#### ★ DCU Electric lock controller

- Location – input DCU-2 name and location e.g. #1 DCU-2 situated at the Map LOCATION 001.
- Anti-tamper interlock output – when DCU-2 control being opened for forced open, it will execute this Macro command.
- AC main power supply loss output – when the controller loss the AC supply it will execute this Macro command
- Battery Low – when system receives signal that battery voltage is too low, it will execute this Macro command.

#### ★ Security Interlock Voice Broadcast

When this DCU-2 controller triggers the alarm signal, system will generate this voice message file. Press the **Internet Search** voice message can be input to file.

### Page 6 – Ext Alarm:



About alarm system for external battery – when the battery installed externally was being damaged or malfunctioning, need to alert the related persons (with the message inserted). Example: inform battery position, and request responsible person for actions.

Every DCU-2 controller has 4 external alarm terminals (Zone#1, Zone#2, Zone#3, Zone#4), connected to the external power supply controller. Alarm signal from external battery will be conveyed back thru DCU-2 to the main system. (pls see 4.5.12.2)

#### ★ Ext. Alarm Parameters


- Zone #1/ #2/ #3/ #4 Message – warning message input with & name of controller from the battery
- Interlock – alarm input need the interlock Macro program commands

Example:

#1 DCU-2 controller Zone #1 connected with #001 external battery controller, when #001 battery being damaged or pulled open, the system will receive its alarm signal and concurrently trigger the macro command that belongs to the (Zone #1 Interlock) °


#### ★ Group Control

- Enable – to start Group Control function. The system can provide total of 256 Lock Group Control for user to set for different situations. Each lock group controls different electric locks. If the Enable function is not being activated, then the Lock Group Control will disappear from the main menu.

- Click this icon,  LOCK GROUP SETUP window will appear.
- ⌚ Group No. – can provide from 1-256 groups.

- ☞ Group Description – Add some simple words to describe the different lock groups during display.
- ☞ Access Level – suggest total 8 levels of authorization, i.e. (0-7) for control & programming of LOCK GROUP functions. If Access Level being set at 7, the user must have authorization level 7 or above in order to enter/use LOCK GROUP functions to do editing work
- ☞ Group Details – this is for the operator to use when doing the lock group programming.
- ☑ Remove – this is for eliminating the unnecessary lock numbers.
- ☑ Lock No. – Total 256 numbers for operator to use.

### Setting Procedure of Lock Group Control:

1. Within the Group Control, click this icon .
  2. LOCK GROUP SETUP – pop-up window will appear. °
  3. Select Group No. from (1-256) °
  4. Then, add simple words for Group Description for identification.
  5. Enter the access level from (0-7) for each of the group No.
  6. Then, add the electric lock number into the Group Details box, steps as below:
    - i. Next to Lock No., click the down arrow, and select the electric lock numbers (1-256) °
    - ii. Below the Group Details, the electric lock number and details will appear in the box below.
    - iii. Repeat steps (i) & (ii) until all electric lock numbers are entered.
- ❖ Repeat the step 3 to 6, can add another Lock Group°
- ❖ If need to delete a lock number, click the lock number until number turn blue color, then click Remove key, the date will be immediately deleted.°

### Page 7 Video:

| RTO\ | CAM #1 | CAM #2 | CAM #3 | CAM #4 |
|------|--------|--------|--------|--------|
| 01   | 3      | 4      | 5      |        |
| 02   | 34     | 12     | 112    |        |
| 03   |        |        |        |        |
| 04   |        |        |        |        |
| 05   |        |        |        |        |
| 06   |        |        |        |        |
| 07   |        |        |        |        |
| 08   |        |        |        |        |

This is for setting the RTO Panel and relate to which cameras, each with 4 sub-monitor display.

Each system will be assigned with 4 sets of supplementary monitors (include the one of its own) there will be a maximum of 5 monitor for related video display.

For every PC system, these 4 sub-monitor (#2, #10, #9, #6) are unchanged. T Another PC system, which has 4 monitors (12, #30, #45, #60) which are different.

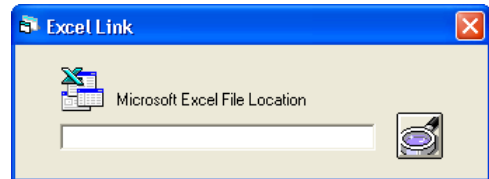
Info/data in this portion can be shared by the entire system. Thus, if two PC systems select the same RTO, they will be displayed on different sub-monitors.

Input the camera number here.  
Steps: first, press the empty box, then enter camera number into it.

### Appendix – 4.5.1: Link Excel

This is for the 1<sup>st</sup> time entry into “link Excel” or “resume link with Excel” function. Steps are below::

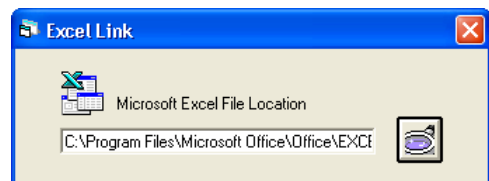
1. On the “Excel Link” pop-up screen press the Magnifier - glass icon.



2. From the Open screen, user can lookup the Excel files



3. After pressing Open, user enter Excel Link File path.

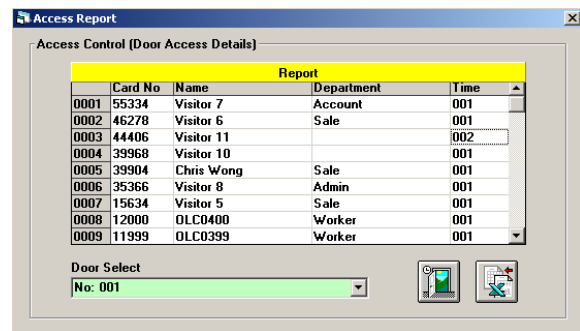


Normally: C:\Program Files\Microsoft Office\Office\EXCEL.exe

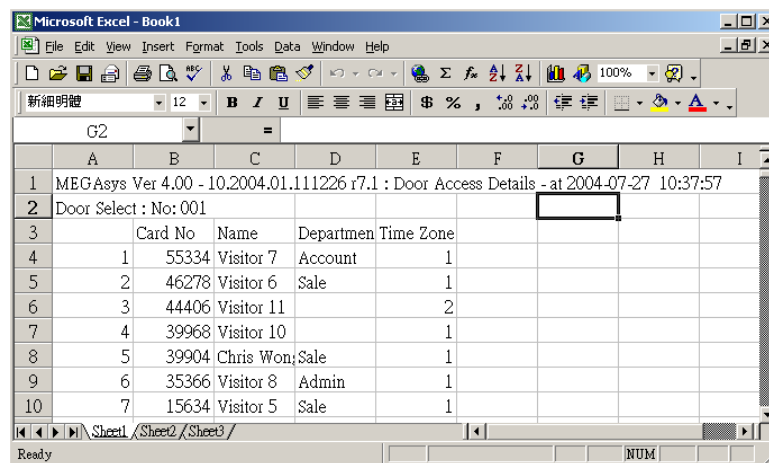
### Appendix – 4.5.1: Edit Door Select – Access Report

Below is a editing method for user reference.

1. Press down the arrow placed on (Door Select).  
Make selection: e.g. No.: 001 Door 001
2. The Access Report file, system will immediately show, all data (as on the right) : card number, name of card holder, department , and the time zone.

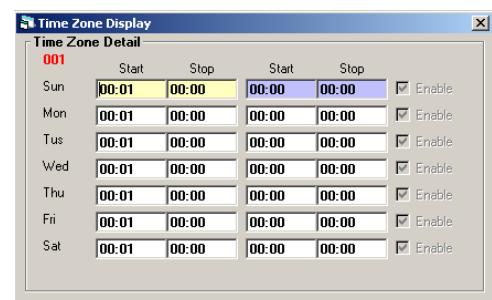


3. Press the “Link Excel” icon key as on the right, they system will display the report content in Excel table format

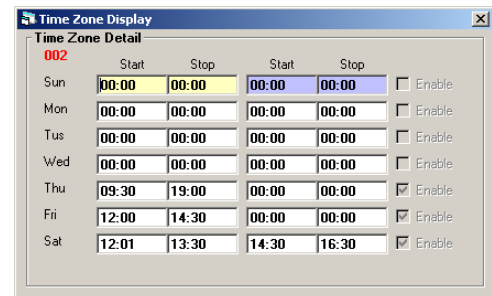


- ❖ First time use Excel Report display, please refer Attachment – 4.5.1: Link Excel, follow the steps to link Excel with MEGAsys.
- ❖ In the “Access Report” windows, click the time zone number, you can check the access time of that of time zone .

For example:Click #001 time, #001 time zone detail could be shown.



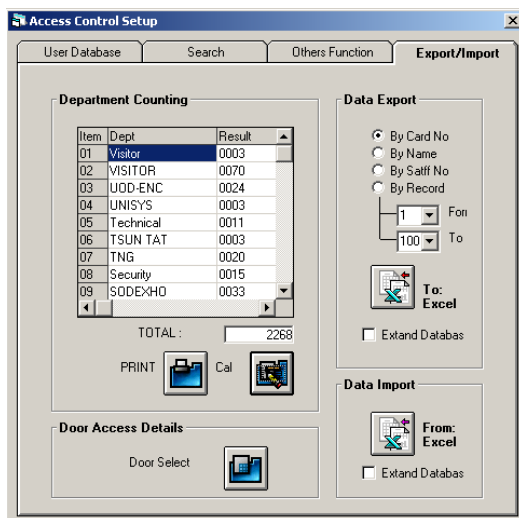
Click #002 time, #002 time zone detail could be shown.





## Appendix – 4.5.1: Information Analysis using (Data Export &amp; Data Import)

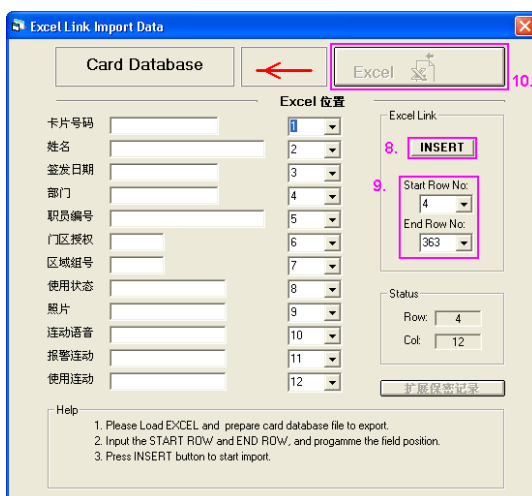
## Data Export Steps



1. Enter path: [System Program] → [Access Control] → [Edit card]
  2. Go to page 4 (top leaf) , Data Analysis
  3. Select the type of info for the base of analysis, example: select Data Export, click onto the small dot of Card Number Type.
  4. Then click onto the Department box, and then click the Calculate box, the system will immediately do statistical analysis and will display the calculation result, ready to be print out. Click PRINT icon for direct print out. Click Data Export box [To Excel] icon, the selected report will be sent to EXCEL for display or print or stored in "Book1.xls"
- ② Before sending the report to EXCEL, user can decide if there is need of sending it together with "expanded confidential record" . If Yes, click To Excel. If NO, just ignore this step.

| Card No | Name                 | Date of Issue | Dept     | Staff No | Access Lev | Area | Trace |
|---------|----------------------|---------------|----------|----------|------------|------|-------|
| 100561  | Eldon David          |               | VISITOR  | 203178   | 0          | 128  |       |
| 101690  | Andrew Long          |               | VISITOR  | 101690   | 1          | 128  |       |
| 102016  | Fredrick Brian       |               | VISITOR  | 209621   | 0          | 128  |       |
| 102020  | Davies Peter         |               | VISITOR  | 536197   | 0          | 128  |       |
| 102026  | Smith Michael        |               | VISITOR  | 207054   | 0          | 128  |       |
| 102123  | Sadiq Tahir          |               | VISITOR  | 716559   | 0          | 128  |       |
| 102131  | Sutton Tony          |               | VISITOR  | 201818   | 0          | 128  |       |
| 102530  | Cheung Kin           | 2003-12-24    | VISITOR  | 20704068 | 107        | 128  |       |
| 102563  | Novais Sidnei        |               | VISITOR  | 700082   | 0          | 128  |       |
| 103921  | Royvin Luk           |               | VISITOR  | 103921   | 23         | 128  |       |
| 104006  | Iris Chow            | 2004-05-17    | VISITOR  | 718712   | 105        | 128  |       |
| 104029  | Wong Tin Shing Hecto |               | SECONDEE | 20089833 | 37         | 128  |       |
| 104037  | Tong Ping Kay        |               | SECONDEE | 20035737 | 1          | 128  |       |
| 104701  | Ho Wai Cheong        |               | VISITOR  | 350755   | 0          | 128  |       |
| 105901  | Mak Canry            |               | VISITOR  | 20143234 | 102        | 128  |       |
| 105938  | Li Kim Yan Kathleen  |               | VISITOR  | 20094296 | 109        | 128  |       |
| 105940  | Tsang Yuk Ha         |               | VISITOR  | 20333827 | 102        | 128  |       |
| 105965  | Mak Pui Shan         |               | VISITOR  | 20578967 | 109        | 128  |       |

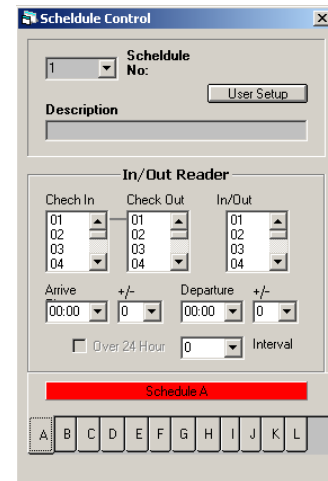
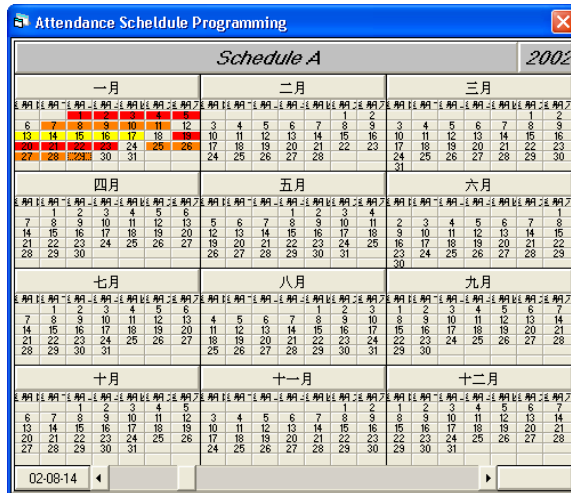
## &lt;Data Import Steps&gt;



5. Within the same page – Data Analysis, click the (Data Import) and then the [From Excel] icon.
- ❖ If there is already confidential data of card holder saved into the pre-programmed Excel file. Then simply click the icon From Excel, the MEGAsys system will store the extended info back to appropriate confidential file of the system.
6. Window appearing – Excel Link Import Data
7. Click the Excel Link box and Insert key. Save the edited file of Excel back to (Load File) File path for Excel is C:\megasys\book1.xls
8. Within the Excel Link box, enter "Start Row" and "End Row" line numbers. Example: "Start Row" is 4 and "End Row" is 363. This is because all the data within Row 4 & Row 363 of Book1.xls are employee data.
9. When the Excel icon in the Excel Link box lights up, click onto the key, the Book1.xls Excel files will be sent to MEGAsys's Card Database for record storage.

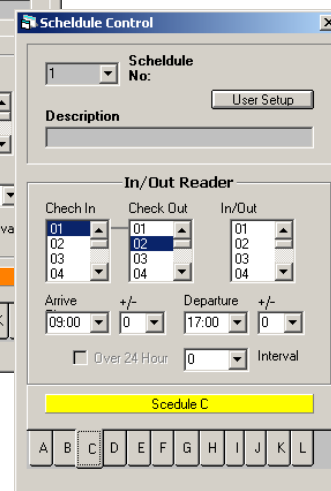
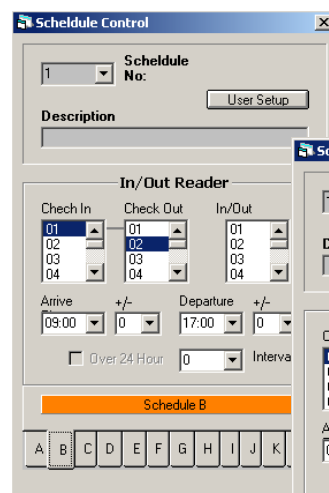
### Appendix – 4.5.8.1: Schedule Array with Example

1. Select Schedule No., and add wording on Description.
2. Select from the Schedule (A-L) for one group from the Universal Calendar. User can select and enter the working dates from this, by left click the date for entry.

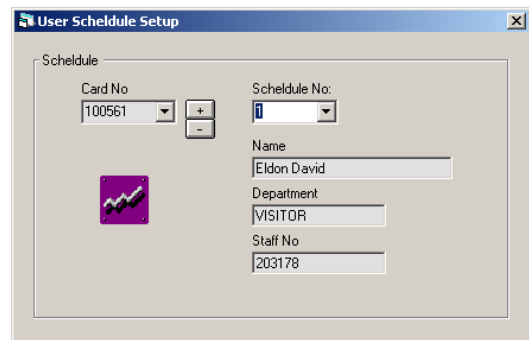


3. Example of setting the in/out card reader as below:

| Schedule No. | 1                 | 1                 |
|--------------|-------------------|-------------------|
| Schedule A   | Time              | 09:00 – 17:00     |
|              | Reader IN         | 01                |
|              | Reader OUT        | 02                |
| Schedule B   | Time              | 17:00 – 01:00     |
|              | Reader IN         | 01                |
|              | Reader OUT        | 02                |
| Schedule C   | Time              | 01:00 – 09:00     |
|              | Reader IN         | 04                |
|              | Reader OUT        | 03                |
| Card No.     | 000123, 000456... | 052008, 005107... |



4. To set up which employee will use which group of Schedule No.° Click to show the window **User Setup** key, User Schedule Setup°
- To enter card number, user can either click onto to the down arrow or to press the **+** or **-** symbols select numbers. Afterwards, the window will show the card holder data.,
  - Select the Schedule No for card holders.



The screenshot shows a software window titled "User Schedule Setup". It contains a "Schedule" section with a "Card No" dropdown menu showing "100561", and buttons for "+" and "-". To the right of the "Card No" section is a "Schedule No:" dropdown menu showing "1". Below these are three text input fields: "Name" with the value "Eldon David", "Department" with the value "VISITOR", and "Staff No" with the value "203178".

- ❖ Follow the steps 1-3 to repeat enter the (set) Schedule No.
- ❖ For employees who need to work for different shifts, there is a need to set up at the "Schedule Control" window entry/exit card readers.
- ❖ If the user has not set up at "Schedule Control" the system will base on previous attendance report to set the entry/exit reader box to set up the work.
- ❖ If employee set the shift work time, and the shift crosses two days (Example: Schedule B) , there is a need to set the Interval°

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Appendix – 4.5.8.1: Edit Attn Report

#### Page 1 Report Formatting:

Which content to be printed from Column (1-150)

Select per the need of report. Checked – in use, Not checked – not in use.

These are not applicable for the MEGAsys. Applicable for GATE 2000 version only.

#### Page 2 Title/Page End content:

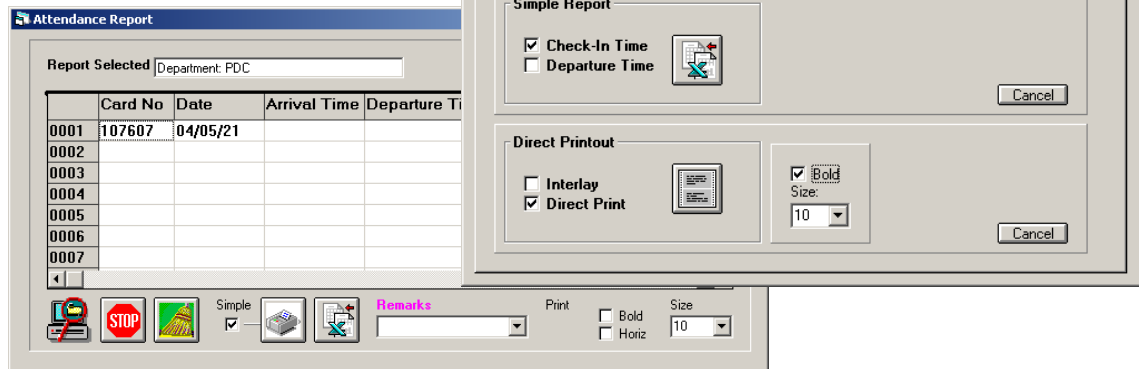
(1) For need of various reports, to edit and change title data and page end info, (press the blank area).

(2) Print position Column (1-150)

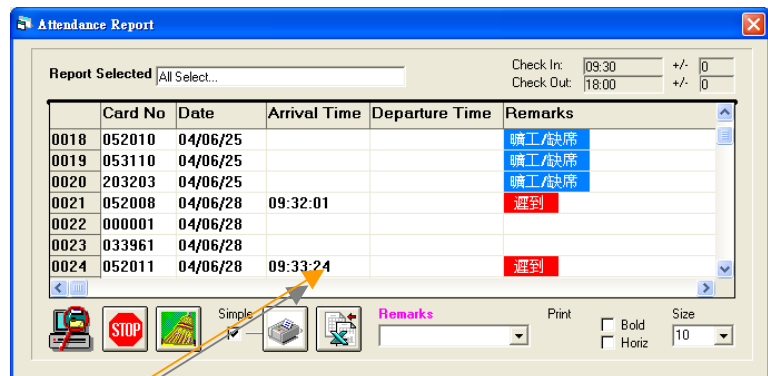
(3) This sign show when key is clicked

## Page 3 Report Print :

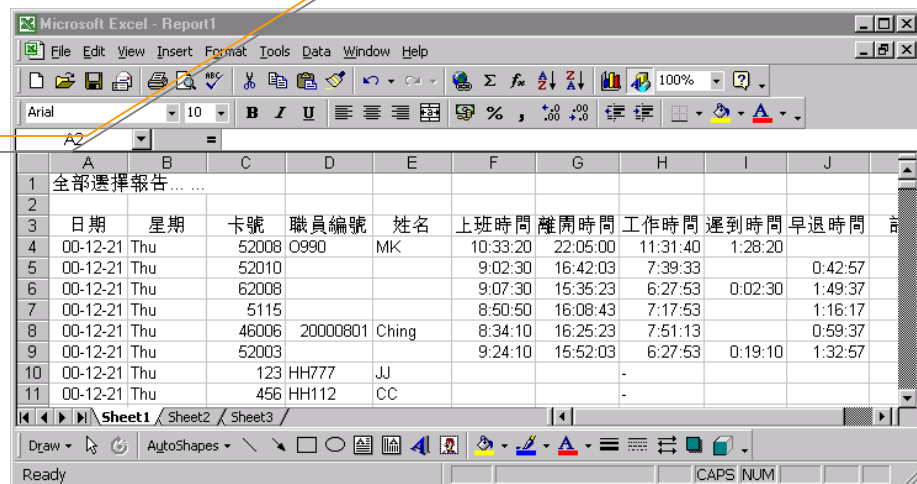
Click onto the icon below the report, the attendance report will pop up, which display all the selection data.



- Select all – user can select to print all the employees' attendance data, and then select the time range of the report.
- After viewing the attendance report data, user can choose to print it directly (click the printer icon) or choose to access the EXCEL file for calculation & analysis (click the EXCEL icon)



Press this key to print info in Excel format




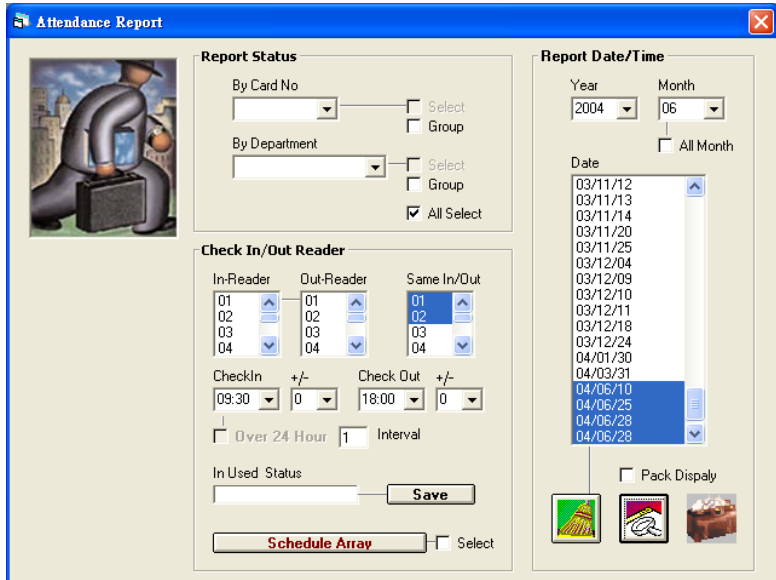
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Appendix – 4.5.8.1: Edit Att Report

Below is a simple way of editing the report, for user to reference

1. Select “ALL” with the Report Status window.
2. Click to select the In/Out Card Reader from range 01 to 02.
3. Select Arrival Time as 09:30, +/- 0 min. ; and select Departure Time as 18:00, +/- 0 min.
4. Select the date with “Time/Date Interval” Click the year, month, and the date e.g.: 2004/ 06 and the entire month.
5. Click “Start Print”  icon, system will input all the data of the Attendance Report to the display.



**Attendance Report**

**Report Status**

By Card No: [Dropdown] [Select] [Group] [All Select]

By Department: [Dropdown] [Select] [Group] [All Select]

**Check In/Out Reader**

In-Reader: [01] [02] [03] [04] Out-Reader: [01] [02] [03] [04] Same In/Out: [01] [02] [03] [04]

Check In: [09:30] +/- [0] Check Out: [18:00] +/- [0]

☐ Over 24 Hour ☒ Interval




In Used Status: [Dropdown] [Save] [Schedule Array] [Select]

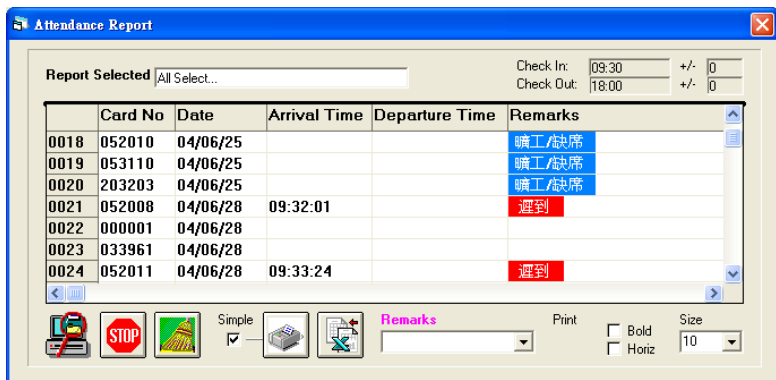
**Report Date/Time**

Year: [2004] Month: [06] [All Month]

Date: [03/11/12] [03/11/13] [03/11/14] [03/11/20] [03/11/25] [03/12/04] [03/12/09] [03/12/10] [03/12/11] [03/12/18] [03/12/24] [04/01/30] [04/03/31] [04/06/10] [04/06/25] [04/06/28] [04/06/28]

☐ Pack Display









**Attendance Report**

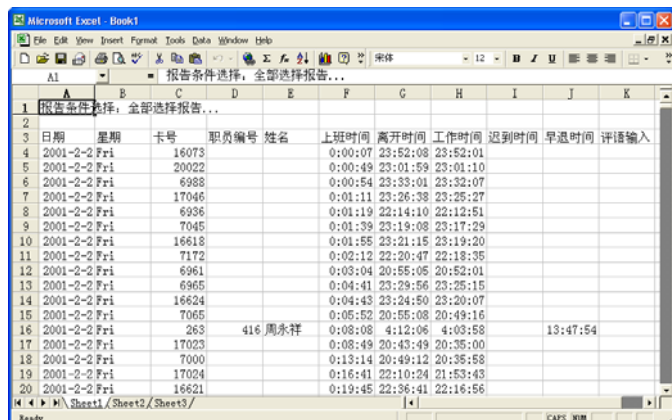
Report Selected: [All Select...]

Check In: [09:30] +/- [0] Check Out: [18:00] +/- [0]

| Card No | Date   | Arrival Time | Departure Time | Remarks |
|---------|--------|--------------|----------------|---------|
| 0018    | 052010 | 04/06/25     |                | 矿工/缺席   |
| 0019    | 053110 | 04/06/25     |                | 矿工/缺席   |
| 0020    | 203203 | 04/06/25     |                | 矿工/缺席   |
| 0021    | 052008 | 04/06/28     | 09:32:01       | 迟到      |
| 0022    | 000001 | 04/06/28     |                |         |
| 0023    | 033961 | 04/06/28     |                |         |
| 0024    | 052011 | 04/06/28     | 09:33:24       | 迟到      |

   Simple   Remarks  Print ☐ Bold ☐ Size 10 ☐ Horiz

6. End of report, click the “Link Excel” key and the system will send all the report content to the Excel software for display.



Microsoft Excel - Book1

报告条件选择: 全部选择报告...

| 日期       | 星期  | 卡号    | 职员编号 | 姓名  | 上班时间    | 离开时间     | 工作时间     | 迟到时间 | 早退时间     | 评语输入 |
|----------|-----|-------|------|-----|---------|----------|----------|------|----------|------|
| 2001-2-2 | Fri | 16073 |      |     | 0:00:07 | 23:52:08 | 23:52:01 |      |          |      |
| 2001-2-2 | Fri | 20022 |      |     | 0:00:49 | 23:01:59 | 23:01:10 |      |          |      |
| 2001-2-2 | Fri | 6988  |      |     | 0:00:54 | 23:33:01 | 23:32:07 |      |          |      |
| 2001-2-2 | Fri | 17046 |      |     | 0:01:11 | 23:36:38 | 23:35:27 |      |          |      |
| 2001-2-2 | Fri | 6936  |      |     | 0:01:19 | 22:14:10 | 22:12:51 |      |          |      |
| 2001-2-2 | Fri | 7045  |      |     | 0:01:39 | 23:19:08 | 23:17:29 |      |          |      |
| 2001-2-2 | Fri | 16618 |      |     | 0:01:55 | 23:21:15 | 23:19:20 |      |          |      |
| 2001-2-2 | Fri | 7172  |      |     | 0:02:12 | 22:20:47 | 22:18:35 |      |          |      |
| 2001-2-2 | Fri | 6961  |      |     | 0:03:04 | 20:55:05 | 20:52:01 |      |          |      |
| 2001-2-2 | Fri | 6965  |      |     | 0:04:41 | 23:29:56 | 23:25:15 |      |          |      |
| 2001-2-2 | Fri | 16624 |      |     | 0:04:43 | 23:24:50 | 23:20:07 |      |          |      |
| 2001-2-2 | Fri | 7065  |      |     | 0:05:52 | 20:55:08 | 20:49:16 |      |          |      |
| 2001-2-2 | Fri | 263   | 416  | 周永祥 | 0:08:08 | 4:12:06  | 4:03:58  |      | 13:47:54 |      |
| 2001-2-2 | Fri | 17023 |      |     | 0:08:49 | 20:43:49 | 20:35:00 |      |          |      |
| 2001-2-2 | Fri | 7000  |      |     | 0:13:14 | 20:49:12 | 20:35:58 |      |          |      |
| 2001-2-2 | Fri | 17024 |      |     | 0:16:41 | 22:10:24 | 21:53:43 |      |          |      |
| 2001-2-2 | Fri | 16521 |      |     | 0:19:45 | 22:36:41 | 22:16:56 |      |          |      |

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

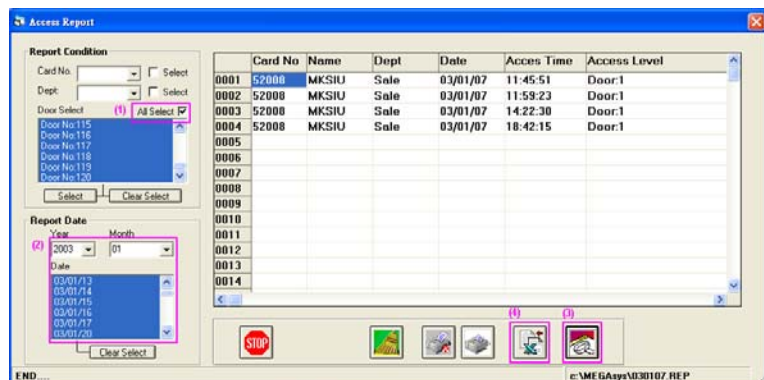
### Appendix – 4.5.8.2: Access Report

Below is a simple edit method for user to reference.

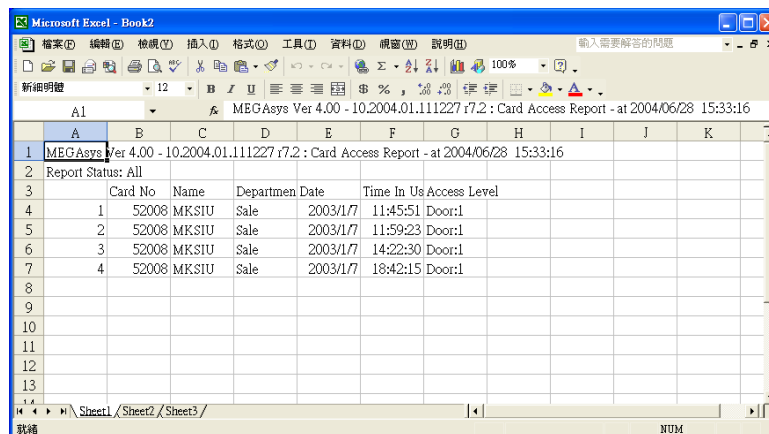
1. When in report status, press “select all” key to get this function.
2. Click down arrow to select the date. Example: 2003/06 whole month.



3. Click “Start to print” icon, system will print all the info as displayed on the window.



4. Click “Link Excel” key, the system will transmit all the content to Excel software for display.



- ❖ If user is using the Excel print out for the 1<sup>st</sup> time, please refer to Attachment 4.5.1: Link Excel and follow the steps of linking the Excel with the MEGAsys software.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

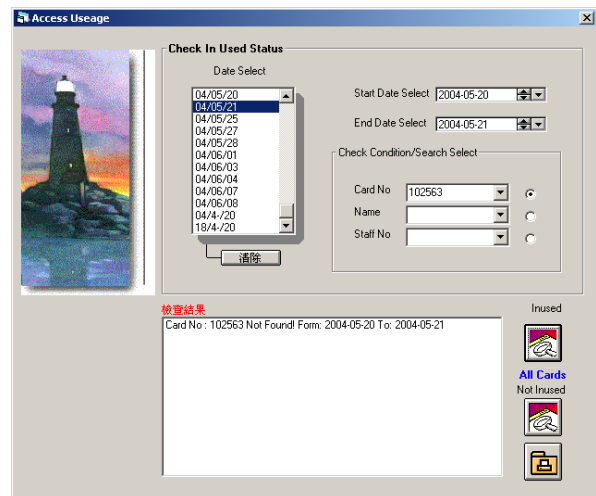
### Appendix – 4.5.8.3: Access Usage

#### <<Access Usage>> Steps:

This is to check the usage status of each of the access cards.

- Date Selection – first select the start date, example: 2001-02-01
- Then, select the end date, example: 2001-02-05
- Check Event/ Search Content – within this box, enter the card number or employee name/ number. Example: card number 52008
- Click the icon of “ Usage Search” key, and the results will be displayed within the “Search Result” box.

- ❖ If necessary, click the **Print** key to make a hard copy of the results.

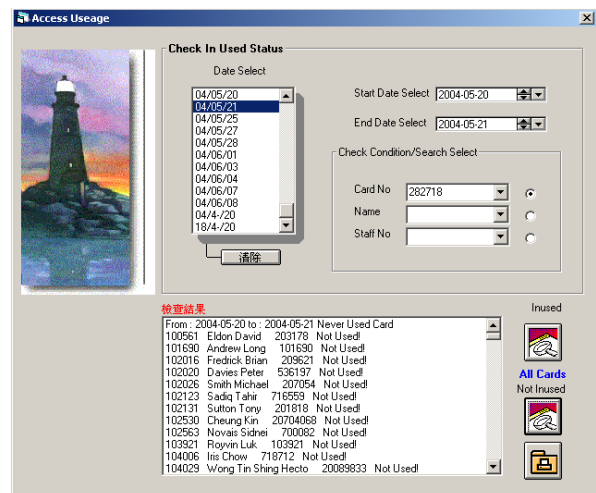


#### <<Non-Usage Search>>Steps:

This is to find out which one or all the access cards that are not being in-used.

- Date Selection – first select the start date, example : 2001-02-01
- Then, select the end date, example: 2001-02-05
- Check Event/ Search Content – within this box, enter the card number or employee name/ number. Example: card number 52008

- ❖ Click the icon of “Non-Usage Search” key, and the results will be displayed within the “Search Result” box.
- ❖ If necessary, click the **Print** key to make a hard copy of the results.





### 4.6 System Setup



#### I. System Parameters



This is for the user to select and program the different device and functions within the entire system.

- Project Name – User can base on the needs to give the system a name. Please enter name within 30 English letters or 15 Chinese characters.

#### ➤ Default Option

Using this Default Option, the user can setup the Server system to send all the data and signals to the Client system, and can also setup the Client system to control/not to control the connection between the Client with the RTO Panel.

Please click the **Setup** key to show the window of Accessibility Properties.

- ❖ *More about Default Option, please the Manual attachment section “Attach – 4.6.1: Default Option”.*

### Appendix – 4.6.1: Default Option

#### ➤ Data Storage

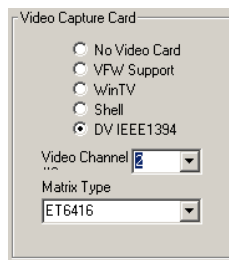
User can base on the system needs, save the data into the different storage devices within the computer. Can either select C: drive or D: drive or another other storage hardware within the system, using the data input path into the MEGAsys system. °

#### ➤ Communication Setup

User can this function to define the communication between the MEGAsys and the rest of the devices. Click on to the small dot for the devices which are to be connected with the main system. (black dot will appear after selection) ,

- Sub-keyboard – click and select if the system uses the ET-KB500sub-keyboard
- Remote RPU – click and select if the system uses the ET-8C500/ ET-8C80...etc. Ordinary PTZ camera decoder do not need
  - ⌚ 8C500/ 8C800 – After selected will show the status of ET-8C500/ ET-8C800 on display screen.
  - ⌚ 4C300 –After selected will show the status of ET-4C300 on the display screen.
  - ⌚ Mimic Panel – After selected, this will show all the points on the Mimic Map.
- ❖ *The box below the RPU time box, is for setting the system polling remote processing unit's time. The time is usually set between 250ms~300ms, normal setting for small system device.°*
- Fault Test – all network linked alarm system using E.O.L. resistance protection, once any system faults occur, the system will display the fault of that particular point.

- Display Shunt status – when the alarm point is at shunt condition, will also display the on/off status of that point
- Display Alarm status – input/output of the alarm, will at same time display the condition of that point.
- Passive Polling settings – if the ET-8C800/P alarm RPU is in use, the system utilize the “disconnection” as a way to execute the alarm. This raise the efficiency of the system, and makes the system receive the RPU data in faster time. User can self-input the polling communication time. Usually, the ideal time is 500ms. Entry can be made in the box below
- Door Access – the system uses the DDC 9000, Site Controller...etc.



### ➤ Multi-media Channels

- Video Capture Card – selection has the following cards

- ☞ No Video Card
- ☞ VFW Support
- ☞ WinTV
  - Model No.: WinTV-GO model 686
  - Model No.: WinTV-USB model 691
  - Model No.: WinTV-PVR model 889 (PCI)
- ☞ Shell
- ☞ DV IEEE1394

- ❖ *If the card is not the first two type, the it could be the Shell type, as shown on the window , where the user enter the Video Capture Card data.*

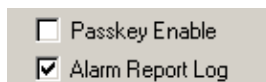
- Video Channel #2

This is the channel for connecting the system video capture card with the system's video matrix controller. User base on need, can enter thru the Channel #0 the video input channel number. When setting Matrix channel #0, user must also define the monitor numbers which matrix is under use.

- Types of Video Matrix Controller

This is for setting the type of Matrix into the system when video matrix is being used. Click to select the types as listed below:-

- ET-6416
- ET-3214
- PELCO 9750/ 60
- PANASONICS X550
- AD168
- Philips

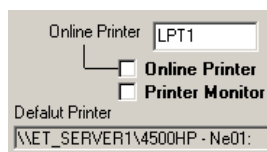


### ➤ Pass Key Enable

User can base on their needs, to assign a pass key for the confidential operation purpose.

### ➤ Alarm Report Log

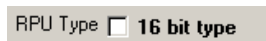
Use can base on the system needs, to set up an alarm report log for the system.



### ➤ Online Printer

User can base on the need of the system, to set up a system printer. User can select a printer and left click the mouse to make the selection.

- Online Printer
- Printer Monitor



### ➤ RPU Type

- 16 bit type – For any MEGAsys software (Version 4.0 or above ) is a 32-bit system, but if 16-bit RPU are needed within this system, then, the user must click and select the 16-bit function. Otherwise, the system will recognize the RPU as 32-bit Version°



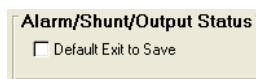
### ➤ Patrol Function

- Free Patrol Tour – means patrolling without following the pre-set patrol schedule.

Steps for setting up:

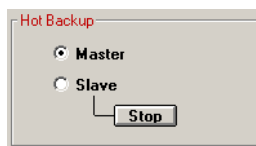
1. Left click on the mouse to enter into this function.
2. Log into [Device number input], click and enter the device number into those input terminals to set them as “Patrol”

This way, the security guard will not need to follow the pre-programmed patrolling sequence . As long as he make key entry at those patrol check points as he arrive these patrol points, the system will automatically record this point’s patrol time and data. Early or late arrival of the check points will not trigger alarm signal.



### ➤ Alarm/ Shunt/ Output Status

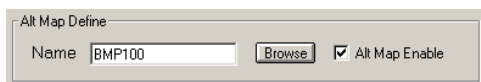
- Default Exit to Save – When logging out of MEGAsys system, the system will automatically log out of all the previous patrol / alarm points, status of the input/output points. Next time logging into the system, the system will resume back to the status of operation during the log-out moment, e.g. Alarm/Shunt, Alarm, open/close circuit faults... different tasks which were in the progress.



### ➤ Hot Backup

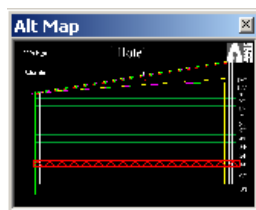
This system of MEGAsys can automatically analyze to find out which computer is currently being the Master Control, and which are being its Slave units.

- Main Control (Master)
- Sub Control (Slave)



### ➤ Mimic Map of the Master Control

Name – enter here the name of the map which main map controls. After user has created the different levels of maps & floor plans, to be link-connected with the main computer’s map (normally name as SITE). User can select other name to replace the SITE with another name map to describe the master map



- Sub-Map Display – system can display many sub-maps simultaneously, e.g. the different floor plan of multi-storey building.(as shown here) . User can continue to create the other submaps, the previously created maps will also be shown here as red color.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

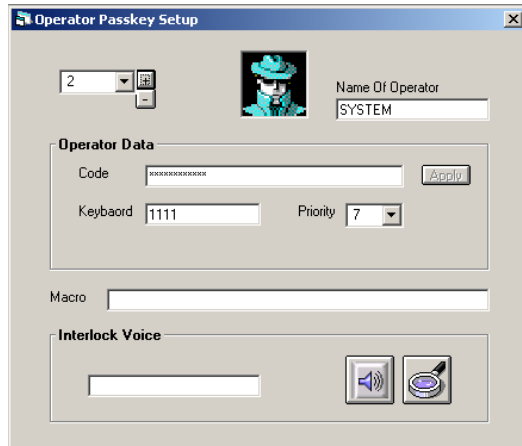
### II. Operator Pass key Setup



The ex-factory default Passkey of MEGAsys is pre-set as (SYSTEM, SYSTEM\_ADMIN). After successful log-in and setup, it is highly recommended that the user enter and change this secret code for the purpose of establishing confidential security.

To enter, user must enter from [Edit System] → [System Setup] → [Operator Pass-key Setup] into the window shown below.

First time entry of the system, please use the factory default **SYSTEM\_ADMIN** to enter into the system.



#### Setting operator keypass (PIN):

MEGAsys system will base on the Keypass to identify which operator has what level of priority in terms of authorization on operational controls. To set this priority level, the user manager must fully understand the system programmer/ system operator has gone thru thorough operation/programming training in the MEGAsys system before assigning him the particular level of authorization (as defined on passkey).

#### ➤ Operator Data

When coming to work everyday, the user (operator) must log into the system, by entering the Passkey number assigned to him/herself only. When going off-duty or leaving work, user need to log out to protect the confidentiality of MEGAsys system.

This system will assign priority of operation according to the level of the passkey, and the system will also record down the time of arrival/departure of operator as well as a operation data log report for all operators.

#### ➤ Operator data

Each operator/user must be first assigned with a system code, and a keyboard access code, before he can enter into the MEGAsys system for control and operation

#### ➤ System Code

User must select a secret code (A-Z, 0-9) comprised of maximum 15 alpha-numeric letters/numbers, either with all capital letters or all in small letters. This is the operator's own system code number, which should be kept secret to himself, and no disclosed to anybody else. This is to ensure the system is being operated by himself (during log-in time) and nobody else.

When any human caused event/accident/incident happens, it is easy to trace and find out (from the operator log record) what actually happened and caused by who. This is important for safety and security measure.

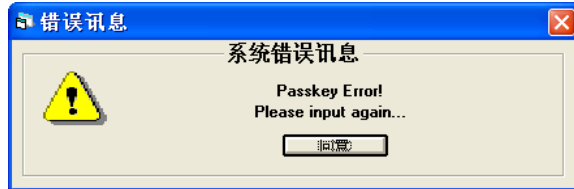
However, when a operator forgets his system secret code, he cannot find it from the system. The number will not be displayed in the system (all but some protected symbols will shown)

#### ➤ Apply

This is for the operator to confirm the 1<sup>st</sup> time code setup or after 2<sup>nd</sup> time change of the code. Click onto the grey color **Apply** key which means the key is not in use. But once the user enter the code number into the box, the **Apply** key will turn to black, press it will apply confirmation.

After entry of system code, please click **Apply** key, the next window will show a (Keypass Input) for user to enter the his own passkey.

After entry has been confirmed, the small window will disappear and the **Apply** key will reappear in grey color.



If the entry was wrong, the error message window will appear. Please click thy **Agree** key here, and re-enter the correct number again.

### Keyboard secret codes

This applies only whenever DDC 9000 is being linked with MEGAsys system. User must enter a pre-selected secret code (0-9) maximum 10 uniform numbers.

### Priority level

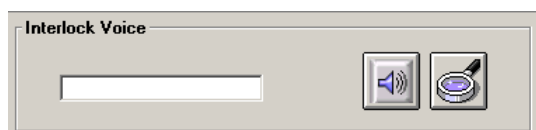
Only the system manager in the MEGAsys system are authorized to program other operators' work scope. Depending on the priority level (0-7 low to high) to limit the different levels of control and operation of each operator. The rest of the control and operating scope will be assigned by individual users, basing on their requirements of work, and their relative priority level approved. Please refer to Chapter 12 [Operator priority level] for details.

- ❖ *Confirm codes – Every time a new operator joins the system or a change of operator codes, system requires immediate confirmation of codes.*
- ❖ *After codes are input, press the **Apply** key next to it. System will show a new “ Passkey Input” window, user need to [re-enter] the code to ensure no mistake. This will complete the code change.*

### Macro Log-in

User must log-in and enter the pre-programmed MACRO commands into the system before they can be interlock with other devices

- ❖ *Please refer MACRO Menu Ver.1.0 (For MEGAsys Ver.3.xx) to learn about the details about setting these MACRO*



### Interlock Voice

When operation log into the system, user can set up a definite voice file for broadcast every time log-in occurs. The voice file can be operator's own file, but must add ".WAV" to the file. Example:

(David Zadam. Security operator of 1<sup>st</sup> unit now reporting to duty), voice message file name as ZDM.WAV  
 (2<sup>nd</sup> floor security operator Wang Jian Gou reporting to work) , as the voice file name is being name as WJG.WAV  
 (Car Park Security Guard Lee Tan reports to work) and voice file named as LT.WAV

As such, every time when a duty – security operator reports into work, the pre-programmed voice message will be broadcasted to from the MEGAsys to the entire system so that other colleagues will immediately be informed automatically (when operator logs onto the system).

Steps of setting the voice files:

1. User can make use of the WINDOWS95 sound recording software to perform the pre-recording. And then save the file into MEGAsys.
2. When the voice file is needed, it is easy to select and retrieve it back from the main listing of MEGAsys.

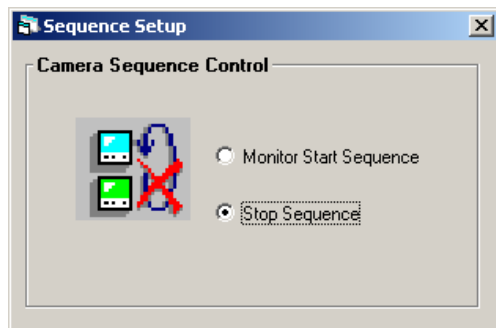
User can click onto the icon [magnifier glass] to find the broadcast voice message from system.

- ❖ *Every operator must log-off from the system properly when leaving the work post temporary or going home after a day's work. This is essential for security reason of preventing others operating the system illegally on other's authorization level.*
- ❖ *If your authorization level is very high (e.g. level 5 or above) disclosure/ leakage of your code number could enable someone to enter in your name to alter the system setting (e.g. put alarm system in shunt mode) or even sabotage or damage the system. **Therefore it is very critical for the supervisory or management level to know that their access code number must be kept absolutely confidential and at all times. And always remember to log in properly and log out of the system whenever leaving the control center or MEGAsys sub-keyboards.***

### III. Video Sequence Setup



This is for the user to setup and use the video matrix central control within MEGAsys system, as there could be many video channels input and output. The user can utilize this function to either start monitor output time sequencing or to stop the sequence procedure.



- ☐ Camera Sequence Control Start  
User can left click the mouse on the white circle to start his pre-programmed time sequence to automatically switch video inputs to different monitor displays .
- ☐ Stop Sequence (of video matrix)  
User can select to click and stop the sequence and the system will stop the video auto-switching. Video output will be sent to fix video monitors for constant stable display.

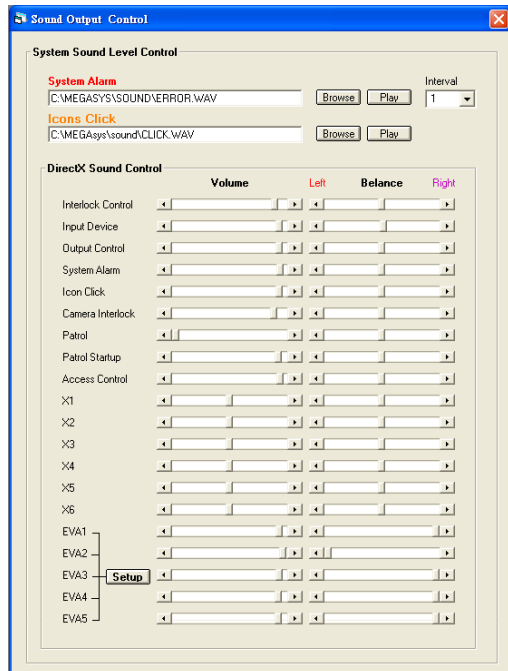
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### IV. Voice Broadcast Setup



Within the MEGAsys system, user can select and set up the voice and sound effect output commands. There are two types of sound functions: one is being triggered by the alarm system, and the other is being triggered by the icon click initiation.



#### ➤ System Sound Level Control

##### ❑ System Alarm

User can select the sound file from the system by clicking onto “Browse” key. After reviewing the different pre-programmed sound files, user can click onto the appropriate one, confirm and the system will automatically input this file into the alarm system. User can also click the “Play” key to try out the sound effect before selection.

##### ❑ Icon Click

Use the mouse to click and confirm (just like before). Example: click onto the “Magnifier Glass” or use the Browse key for selection of usable voice files on WINDOWS. Use the mouse to list out all the voice files, and then automatically hang the files onto the system. User can use the mouse to click for broadcast from the MEGAsys system.

#### ➤ DirectX Sound Control (Voice Output)

Within this version 4.0 MEGAsys has already add the DirectX function to greatly raise the sound and voice effect & quality.

In the past versions, when system alarm is being sounded off, the message broadcast cannot be executed concurrently.

Now, with the added DirectX function, the system can issue an alarm alert, at the same time outputting the message broadcast.

User can click and select the different voice/sound effect within the square box. Example: interlock output, input terminal device, alarm system, icon click start up, camera interlock voice output, patrolling & access control interlock voice output control...etc. There are 2 Scroll Bar right next to each group, for setting the volume of the left and right sound channels.


##### ❑ Evacuation Control


Within the sound broadcast program, we have added 5 groups of Evacuation Controls (with sound message). Steps as below.

Setup – this **Setup** key is for 5 groups to use.

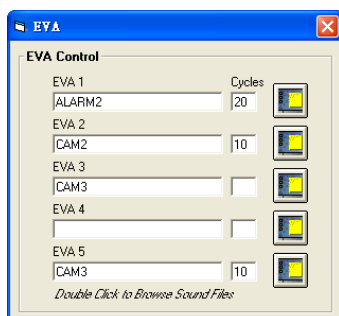
Once key pressed, the icon EVA will appear on window. System will show to user the Evacuation broadcast is now in progress.

Broadcast – whenever any one group of Evacuation message is being activate, EVA window will appear with a relative EVA

ON/OFF function key:- click this icon for Play  (broadcast)

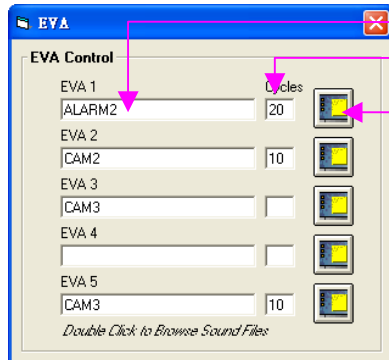
Stop – if user need to stop, click the relative icon  next to EVA Control ON/OFF key. Press it to stop broadcasting.

❖ (Evacuator Control) must use the Interlock Macro Commands to control its execution, format as:- “EVA xxx CYC yyy” °



### ❖ EVA

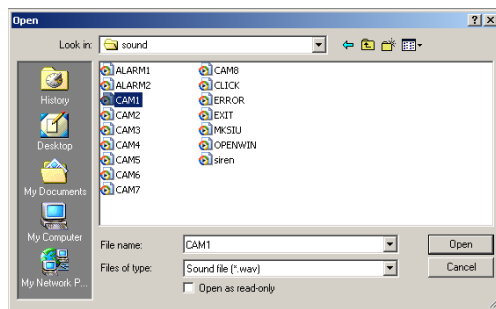
Evacuator Control (EVA) 5 groups of broadcasting files, all must be setup within the EVA Control window. User should use different message base on different Evacuation conditions. Repeat broadcast (Cycle) time is in seconds.



Display EVA file name & the recycling broadcast time.

ON/OFF function keys.

- User can double click on the EVA 1 ~ EVA 5 boxes to browse for different evacuation sound files.
- The maximum cycle time per message broadcast is (300 sec) 5 minutes.



### ➤ Steps of defining sound files as below:

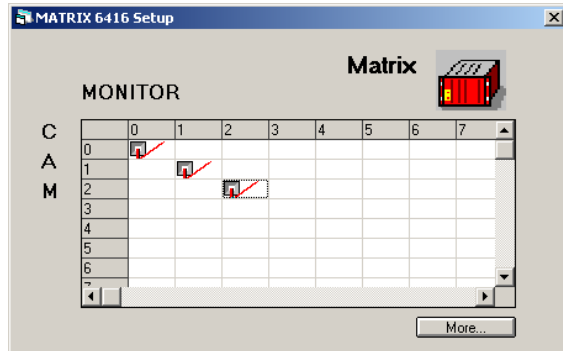
1. User can use: WINDOWS95 to provide the need software for doing the sound recording, save the created file into the MEGAsys system. Retrive from the same file whenever it is needed for programming purpose.
2. Click onto the “magnifier glass” icon or the “Browse”, the File Control window will pop up.
3. Search the sound file from the pre-recorded file path usually under “C:\MEGAsys\sound\...” path.
4. Finally, to complete, click **OK** key or **Confirm** to log-out.



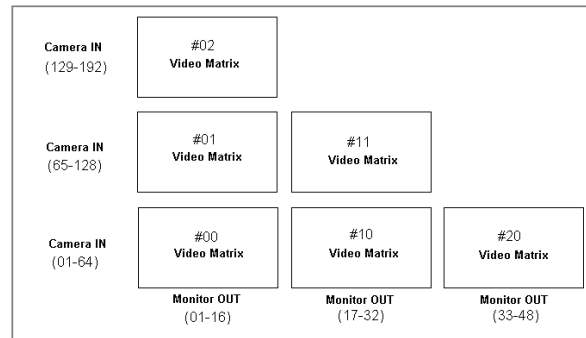
### V. MATRIX Setup



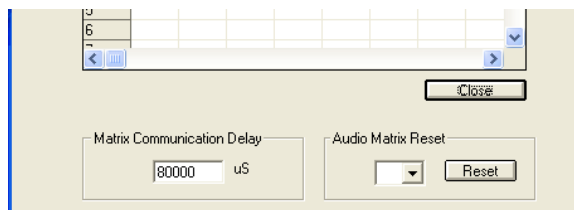
User can install a 10x10 video matrix with the system of MEGAsys. Every matrix need to set up with a correct address which is essential for the system's communication with the physical position of every camera inputs, monitor outputs....etc. Example as below:



If the user only have one set of matrix machine, the ex-factory setting of the address was (00), video camera input terminal address was (01-64), monitor output port address was (01-16), please refer to the below to understand the differences between other addresses:



Click onto the box of **More..** two more pop-up screens will appear: Matrix Communication Delay and Audio Matrix Reset:



- Matrix Communication Delay – this is a Byte Delay, for the communication (of time) between the computer and the Matrix machine.
- Audio Matrix Reset – this is for select to reset ET-6416 matrix with number (00-99), click the **Reset** to complete the reset action.
- Close – After completion press the **Close** to hide the two.

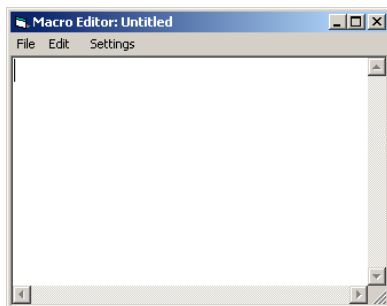
❖ For setting up Byte Delay time , please contact Everett Electronics Ltd., or refer to Chapter 16 to this manual.

### Appendix – 4.6.5: Divided Mode of Control

### Macro (words) Editor

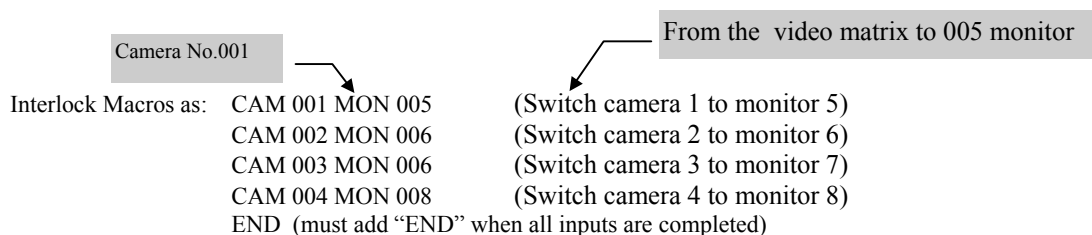


All the output point used in MEGAsys system, (normally on security alarm, lighting switch for the zone/district, fire service signal output...etc), all need to be equipped with output functions. This can be achieved by either by a single output function or program them as a set of multiple output Macro commands, to allow the system computer to instruct all the output devices with action commands and/or to give the MEGAsys more operational instructions.



MACRO is a set of programs which allows user (engineers) who has the knowledge of BASIC programming to do the work by himself with the help of the computer. First MEGAsys system will open a new file (as left) to allow you edit output/input groups of the devices through the matrix (e.g. start siren, close passage door, broadcast message, activate lighting, zoom in the PTZ camera, control the matrix to display the camera, and output video to assigned monitor or DVR...etc).

The below is a simple example on the output steps:  
After receiving the alarm from location 001, the matrix should cut-in camera 1 to monitor 5, camera 2 to monitor 6, camera 3 to monitor 7, camera 4 to monitor 8 ; monitors 5-8 signal output to display onto a 4-channel split screen, which is connected to a DVR for recording.



Output commands (upon alarm received at point 001)

ACU 001 OUT 001  
 ACU 001 OUT 002  
 CAM 001 MON 005  
 CAM 002 MON 006  
 CAM 003 MON 006  
 CAM 004 MON 008  
 END (must add "END" when all inputs are completed)

= MACRO 001  
 (Refer to this file name when entry into Matrix)

Simply doing the entry like the above, it is very to make mistake, but if we can pre-assign all the macro output points with a program number, and then make entry with this program name, it would be must more easy task.

This type of program is called MACRO. User must store it properly under a file name.

#### ❑ Macro programming example

Establish a new file name: (MAC001) as the first alarm setup with "notes of where use, device functions, and positions of cameras, Macro output commands as below:

|                 |  |
|-----------------|--|
| CAM 001 POS 005 | (Switch camera 1 to preset position 5 )              |
| CAM 002 POS 006 | (Switch camera 2 to preset position 6)               |
| CAM 003 POS 006 | (Switch camera 3 to preset position 6)               |
| CAM 001 MON 005 | (Switch camera 1 to preset position 5)               |
| CAM 002 MON 006 | (Switch camera 2 to preset position 6)               |
| CAM 003 MON 006 | (Switch camera 3 to preset position 6)               |
| ACU 001 OUT 001 | (After receive alarm 1 activate the output siren 1 ) |
| ACU 001 OUT 002 | (After receive alarm 1 activate the lighting 2)      |

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

END (add “END” after all input are completed)

Input program commands as below:

ACU 001 OUT 001  
ACU 001 OUT 002  
CAM 001 POS 005  
CAM 002 POS 006  
CAM 003 POS 006  
CAM 001 MON 005  
CAM 002 MON 006  
CAM 003 MON 006  
END (add “END” after complete)

= MACRO 001.PRG (file name)  
(Enter this (MAC 001) file into the Matrix system)

### ❑ Common MACRO list

| CMM | Control point(file) | Descriptions   | Action | Control address(file)     | Notes   |
|-----|---------------------|--|--------|---------------------------|---|
| ACU | (XXXX)              | Decoder address  | OUT    | (XXX)                     | Decoder output address  |
| POS | (00-09)             | PTZ decoder address  | RLY    | (1-6)                     | PTZ electric device position  |
| SHT | (XXX) (XX)          | Input Pause to decoder address                                     | SHZ    | (XXXX)                    | Pause system input address  |
| CAM | (XXX)               | Camera address   | MON    | (XXX)                     | Monitor address   |
| TOR | (XXXX)              | Camera graphic touring (XXXX)                                      | MSG    | (message file)            | Alarm reporting file  |
| SEQ | (name) (file)       | Switch video grouping  | STOP   |                           | Stop task / work  |
| LKD | (XX) Door address   | Lock this door access  | GUI    | (XXX) Camera No.          | Switch on camera per the graphic map location when alarm is being activated |
| ULD | (XX) door address   | Don't lock this door   | BMS    | (XXXX) Output No.         | Output to BMS system  |
| MAP | {XXX} map name      | Switch on the graphic map when alarm is activated                  | PAT    | (XXX) Patrol group number | Activate the patrol tour group  |
| VOC | (XXX) voice file    | Switch on the main computer broadcast file when alarm is activated | VCR    | (XXX) Recorder No.        | Main computer's recorder number   |

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

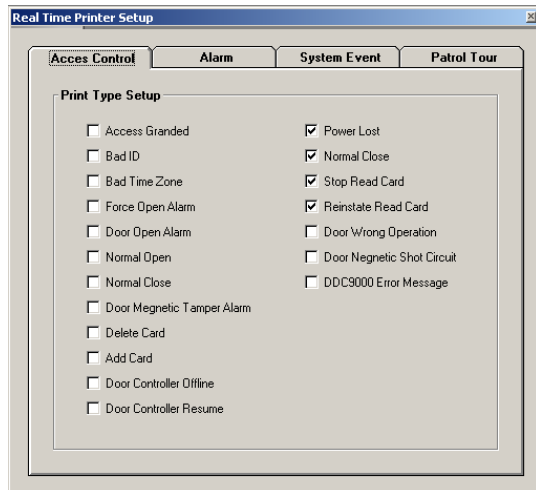
---

### VI. Print Event



Pres [Print Event] icon to get the pop-up window as shown. There are 4 pages, (access control, alarm, system event, patrol tour) .

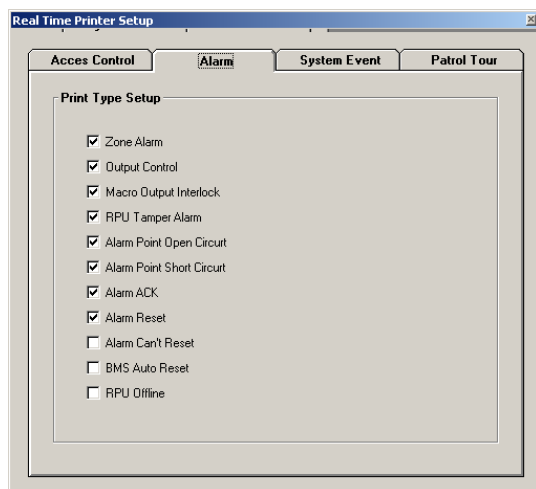
User can enter the system, select the different content and press to print the ones needed.



Page 1 : Access Control



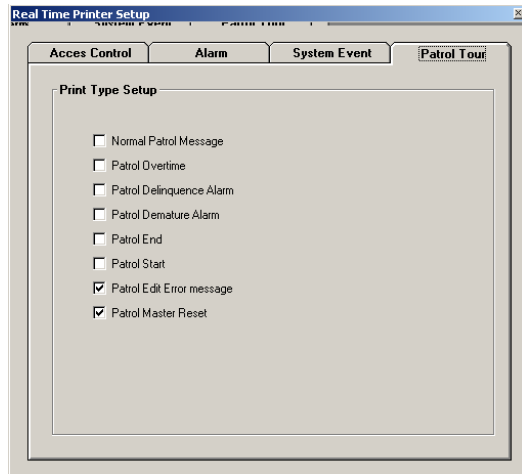
Page 2 : Alarm



Page 3 System Event:

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual



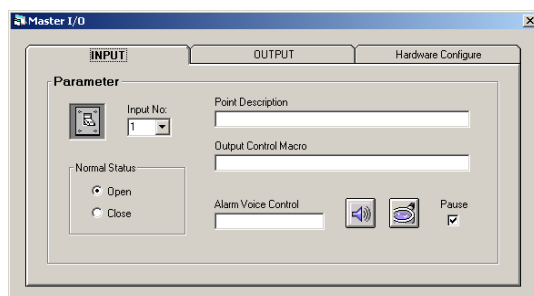
Page 4: Patrol Tour:

## VII. Master I/O Configure



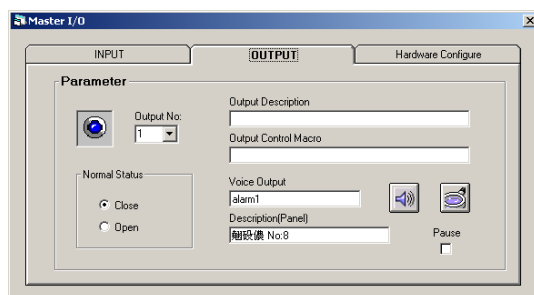
When the system uses the ET-5 communication card, provide 8 input & output terminals (1-4 power output, 5-8 O.C. output), please refer to *ET-51/RS422 card installation manual*.

Page 1 – INPUT:



- ☐ Alarm message display  
Input the alarm message to display on that alarm location
- ☐ Alarm interlock output  
Input the Macro commands needed, when the alarm input is received (with the user preset message content)
- ☐ Alarm voice broadcast  
Press the Magnifier |Glass icon, to select the voice message from the file, and when alarm input received, output the voice message content.
- ☐ Input the device task description  
Be careful in selecting the device task description (e.g. normal open or normal close circuit) to avoid mistake.°
- ☐ Pause  
When user do not wish to activate a certain input signal point, simply press the Pause box.

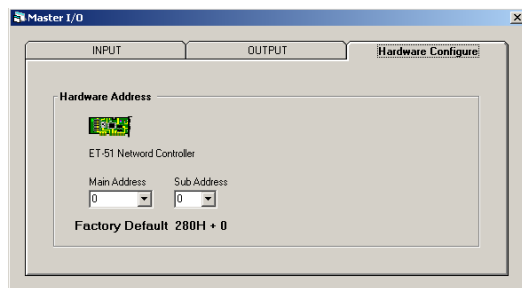
Page 2 – OUTPUT:



- ☐ Output Description  
Select the output message when alarm signal received.
- ☐ Output Control Macro  
When that output point alarm activated, input the Macro commands, and display its content.
- ☐ Output Broadcast  
Press down the Magnifier Glass icon, to select the pre-set voice message from file, and link it to the output macro. The system will broadcast during alarm.

- ❑ Input/output configure (front panel)  
This will display on the main menu within the Master I/O Control, e.g. recorder No:8 control can be written onto the recorder No:8, for reminder purpose.
- ❑ Output Task Nature  
Please refer the output point task nature, select (normal open/close for electric circuit) before the setup to avoid any mistake in set up.
- ❑ Pause  
If user do not wish to use any of the I/O ports, simple press the “Pause”, you will temporary stop the related functions. Master I/ O Control icon will disappear from the main menu. Otherwise, Master I/ O Control icon will appear. Please refer Chapter 14 of MASTER I/ O CONTROL for more details. °

Page 3 – Hardware Configure:



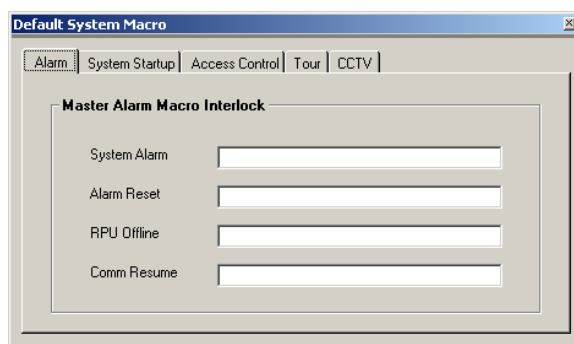
Set up the ET-51 I/O card's physical location (ex-factory set at 280H). If this number has already been used, on the same jumper pin ET-51 Please refer more in *ET-51/RS422card installation manual*.

## VIII. Master Interlock



The system is capable for the entire interlock output, whenever any alarm happens, by its default function. When this occur, the interlock will output any of the pre-assigned Macro commands

Page 1 Default System Macro:



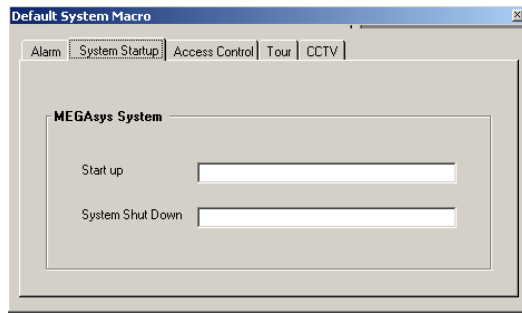
- ❑ System alarm – when system has any kind of alarm.
- ❑ Alarm reset – when system can be successfully reset.
- ❑ RPU offline – when RPU cannot get on-line.
- ❑ Comm resume – when RPU gets back on-line.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

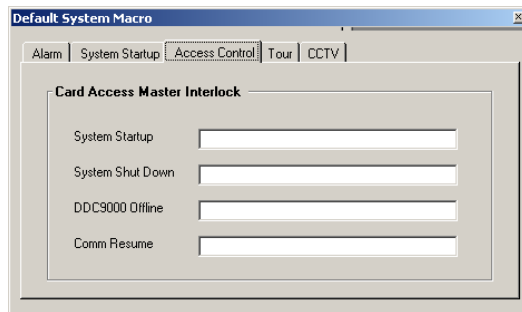
---

Page 2 Default System Macro:



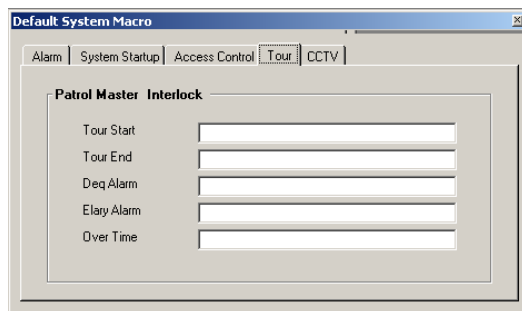
- System start – when system being initiated, this line of Macro command will be executed.
- System end – when log-out of system , this line of Macro command will also be executed.

Page 3 Card Reader:



- System startup – when card reader being started, system will execute this macro command.
- System shut-down – when card reader stop being used, system will execute this Marco command.
- DDC 9000 offline – if the system cannot detect the DDC 9000system, this line of macro command will be executed
- Communication resume – after DDC 9000is reconnected and tested successfully, system will execute this line of macro command.

Page 4 Patrol Tour:



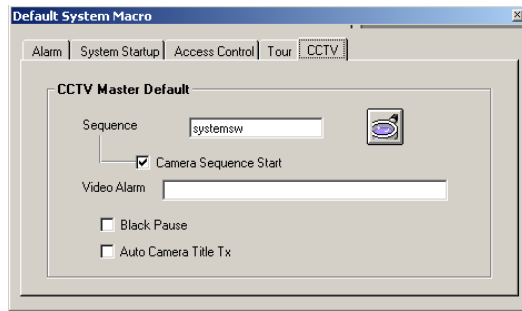
- Tour Start – input this Macro command when security card start his patrol tour.
- Tour End –input this Macro command when security guard ends his tour.
- Dew Alarm –input this Macro command when the guard is not following the regular touring sequence /path.
- Early Alarm –input this Macro command when the guard arrive early to the patrol point and activate the tour key.
- Over time – input this Macro command when the guard is late to the patrol point, and does not active the tour key on-time.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

Page 5 CCTV:



- Sequence file – this file of sequence will be used when system starts up.
- Video alarm – when camera encounter loss of video signal the system interlock action, will input the proper macro command the user has programmed into the system (only those systems installed with ET-6416V can have this function)
- Black pause – select the “black pause” and “auto camera tele transmit” the system will execute this command.

❖ *Edit or program Macros , user need to refer to MACRO Menu Ver.1.0 (For MEGAsys Ver.3.xx)*



### X. TCP/ IP Network



When the user wish to control /monitor other systems on his own computer system, these systems need to be connected by the TCP/IP network.

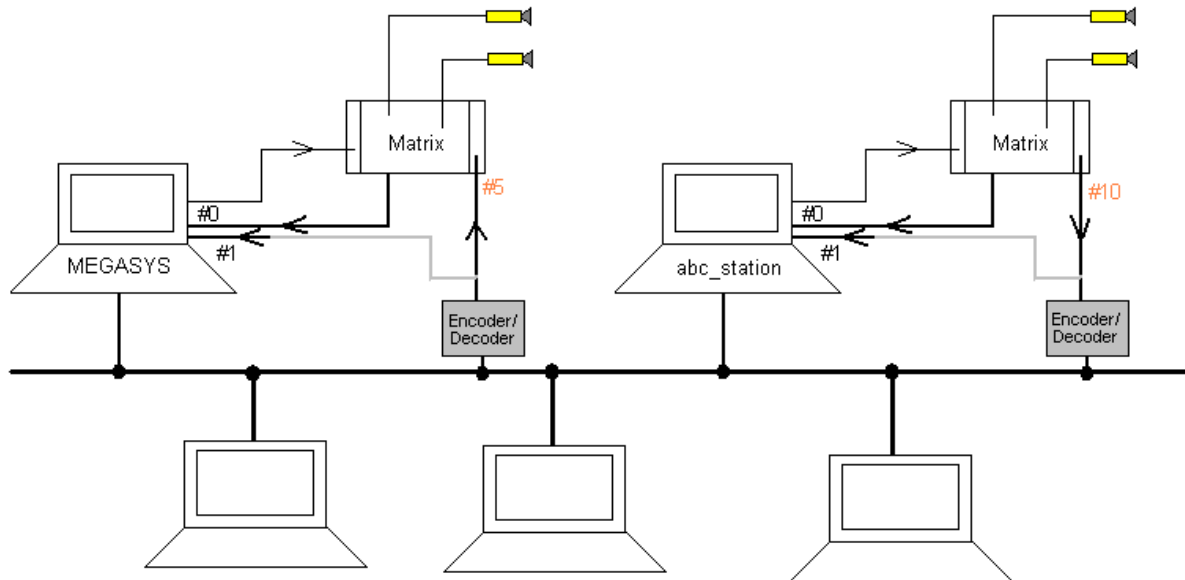
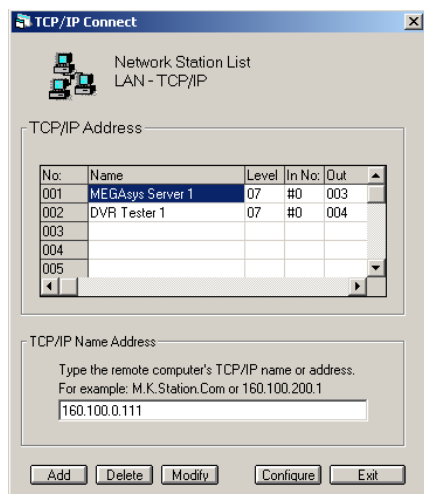


Figure 4.6.10.1



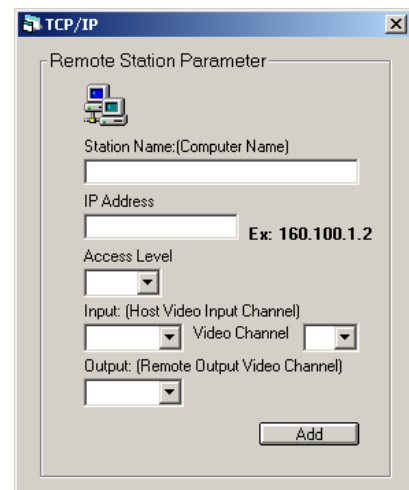
- TCP/ IP Network  
There are total of 128 address to be utilized. This table shows user how to look up other neighbor computer also on the network. Example: input computer (Name), (Level), (Input) and (Output) numbers.
- TCP/ IP Name Address  
When user click onto TCP/ IP Address box, the computer will display the local computer IP Address.



Add

Press this box – TCP/ IP°

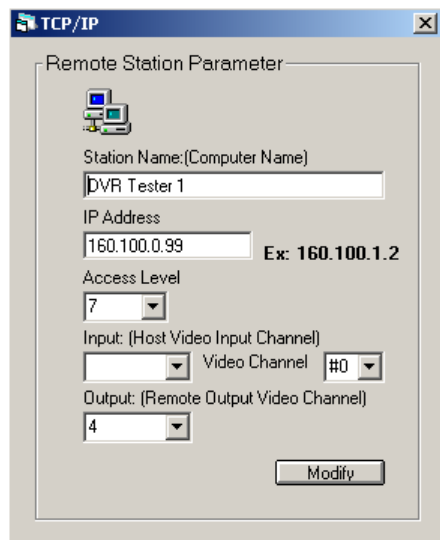
- Station Name (Computer Name) – make entry here
- IP Address – to be assigned by Server to each computer  
(e.g. DHCP Server, DNS Server, WINS Server with number : 160.100.1.2)
- Access Level – authorization levels from 0 to 7, 7 as the highest and 0 as the lowest. Higher level computer can control the lower level ones.
- Input (Host Video Input Channel) – there are 640 input points. For the system to entry monitor numbers (MONITOR IN) °



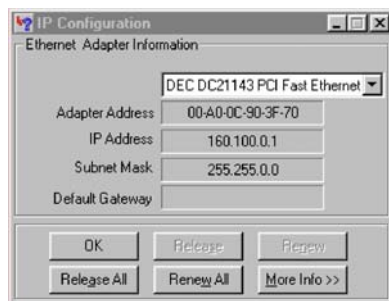
## MEGAsys – Server

### Graphic Alarm Display System Software Programming Manual

- ① Host video input channel – There are two(0 & 1 ) multi-media channels for each MEGAsys system.
- ❖ Normally it is rare to use this channel, it is for backup purpose. °
- Output (Remote Output Video Channel) – total of 160 output channel to be connect to the Matrix system for monitor numbers assignment (MONITOR OUT) °
- ❖ When the set up is completed , press **Add** key to add the TCP/ IP Address to the window table.

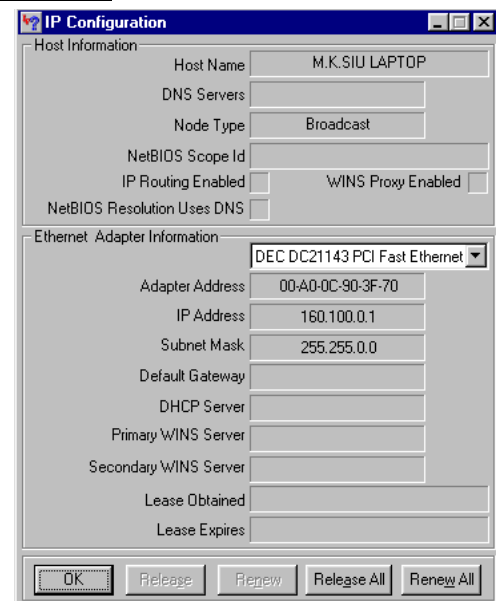


- ⑨ Delete  
Press **Delete** key to delete any info from the network.
- ⑨ Modify  
Press **Modify**, to select the info from TCP/ IP window for update or modifications.



- ⑨ Configure  
This is for checking info with the user's system e.g. IP address. But cannot check info in other systems. See pop-up window as below on IP Configuration°

Press **More Info >>** to get more detail info from system.



- ❖ Configure function can only work on MEGAsysSoftware (16-bit version), these two pop-up windows will only appear in 16-bit version
- ⑨ Exit  
Press this key to back out from this window.

### XI. e-Mail

When MEGAsys system receive a certain signal message, it can send this info to a pre-assigned email address to someone for attention. And this person should be someone who need to take reactive action per this alarm signal

This Mailer has total 3 pages, the first two pages is about sending message, and the 3 rd page is about the type of message being sent and the time.

#### Page 1 – SMTP (Outgoing)

The screenshot shows the 'SMTP (Outgoing)' tab of the 'MEGAsys mailer' window. It contains three input fields: 'SMTP Server', 'From', and 'To'. Below these is a large text area for 'Email Subject/Body'. A 'Send/Receive' button is at the bottom right.

- SMTP Server – enter user's email address. Email Server name e.g. : smtp.pacific.net.hk
- From – enter the sender address, must match with SMTP Server. E.g. : evertech@pacific.net.hk
- To – Receiver's email address, e.g. : Evertech@hkstar.com
- Email Subject/ Body – enter the content of the email here , e.g.: Testing...
- Send/ Receive – Press this key to send or receive any incoming mail.

#### Page 2 – POP3 (Incoming)

The screenshot shows the 'POP3 (Incoming)' tab of the 'MEGAsys mailer' window. It contains three input fields: 'POP3 Server', 'Username', and 'Password'. Below these is a large text area for 'Message Folder'. A 'Send/Receive' button is at the bottom right. A note at the bottom of the text area reads: 'Double clicking on the email messages will attempt to open them in your email client.'

- POP3 Server –
- Username –
- Password –
- Message Folder –

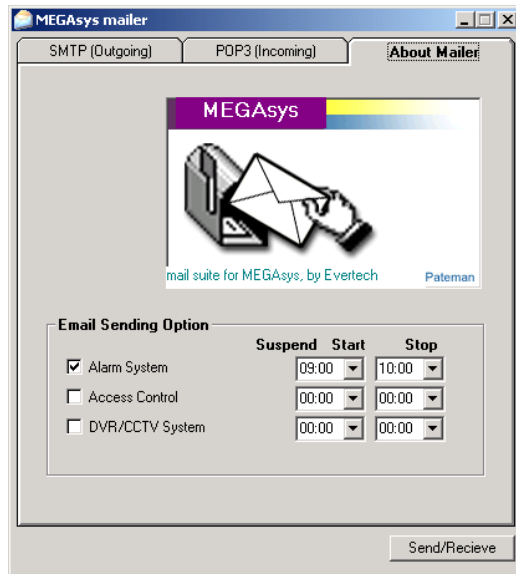
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

### Page 3 – About Mailer

This page is for user to set the system to receive any incoming message and also to execute the delivery of email to per-determined receivers. °



- Email Sending Option – there are 4 selections: Alarm System, Access Control, CCTV System and DVR System. User must click to select the box to instruct the system to send email when signal been received.
- Suspend Start Time – set the email send time
- Suspend Stop Time – set the email stop sending time

#### Example:

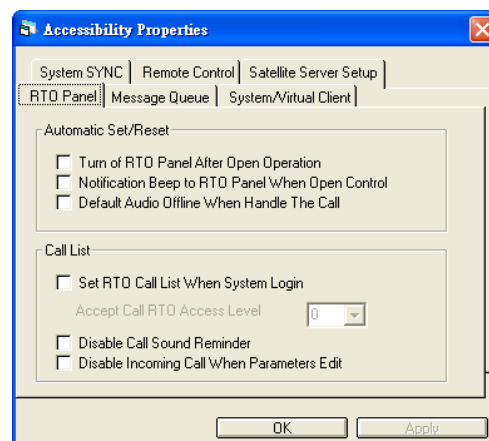
If the user selected the DVR/ CCTV System message, and then set the Suspend Time as 17:00 to 23:00, this means during this period , if system receives any message from DVR/ CCTV System it will automatically send email to the pre-assigned person per the address programmed.

- ❖ *If Suspend Time is set 00:00 To 00:00, this mean the system is under 24 hours operation*

## Appendix – 4.6.1: Default Option

## Default Option – Page 1 RTO Panel:

This is for setting up the control of the RTO Panel& Call List authorization levels and the mode of receiving the signal,



## Automatic Set/ Reset

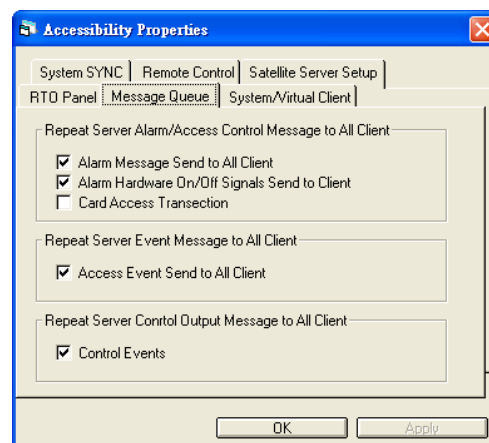
|   |  |
|---|--|
| 1. Turn of RTO Panel After open Operation           | <p>To start this function (<input checked="" type="checkbox"/>) , user must press #8 window for (Door Control) <u>Open</u> to open #8 Door Control, which will automatically close the window. On #8Door Control, User will see the Auto Exit function be activated (<input checked="" type="checkbox"/>) will appear.°</p> <p>Not to use this function ( <input type="checkbox"/> ), when user press this #8 (Door Control) <u>Open</u> key, after opening the#8door, user must close this window to complete this operation. User will see the Auto Exit function NOT activated ( <input type="checkbox"/> ) will appear.°</p> |
| 2. Notification Beep to RTO Panel When Open Control | <p>Activate this function (<input checked="" type="checkbox"/>) , when user press #8 (Door Control) window, press the key<u>Open</u>, opening the #8 door, he will hear the RTO generate a “BEEP” sound, notify him can enter into the door.</p> <p>Do not use this function ( <input type="checkbox"/> ), when user press (Door Control) <u>Open</u> key, when #8 door opens, he would not hear the RTO “BEEP” sound, you need to make sure if the door lock has been open or not.</p>  |
| 3. Default Audio Offline When Handle the Call       | <p>Activate this function (<input checked="" type="checkbox"/>) , open #8 Door Control window with a Intercom key – <u>On Air</u> Blue when light is on, means cannot talk with other now. User must press to talk, wait for the red light on, now can talk with others.</p> <p>Function not-used ( <input type="checkbox"/> ), open #8 Door Control window with a Intercom key – <u>On Air</u>, red light immediately turn on, means can talk anytime now</p>   |

## Call List

|   |   |
|---|---|
| 1. Set RTO Call List When System Login        | <p>Activate this function (<input checked="" type="checkbox"/>) , system programmer must set “Accept Call RTO Access Level” user priority level. Press down arrow to select. Operator log-in MEGAsys Server and at same time log-in this function, must have the pre-assigned high enough priority level or above, before he can receive RTO Call List°</p> <p>Function not used ( <input type="checkbox"/> ), means any level of priority, any operator can log into this system function. All can control RTO Call.</p> |
| 2. Disable Call Sound Reminder                | <p>Activate this function (<input checked="" type="checkbox"/>) , when system receive entry request from a door zone number, that door zone number will display and will issue a “BEEP” sound to inform the operator</p> <p>Function not used ( <input type="checkbox"/> ),when system receive entry request from a door zone number, that door zone number will issue continuous “BEEP” sound to inform the operator, until the operator execute on it</p>   |
| 3. Disable Incoming Call When Parameters Edit | <p>Activate this function (<input checked="" type="checkbox"/>) , means when operator is programming the system settings, <u>cancel any door entry&amp; exit (RTO Call) signal</u></p> <p>Function not used ( <input type="checkbox"/> ), means when operator is doing program settings, he will continue to receive all the door entry &amp; exit (RTO Call) signals</p>   |

### Default Option – Page 2 Message Queue:

This is to set up MEGAsys Server for sending out all the messages, (alarm, door access, and other system signals).



### Repeat Server Alarm Message

|                                   |   |
|-----------------------------------|---|
| 1. Alarm Message                  | <p><b>Activated</b> (<input checked="" type="checkbox"/>) , send all the MEGAsys Server system alarm related record data, and display them on System Alarm Log window of such data</p> <p><b>De-activated</b> (<input type="checkbox"/>) , will not send nor display any of the MEGAsys Server alarm related record and data</p>  |
| 2. Alarm Hardware On/ Off Signals | <p><b>Activated</b> (<input checked="" type="checkbox"/>) , send and display all the linked to MEGAsys Server system alarm hardware device status. E.g. if the alarm hardware issue alarm signal the Server will send this signal message and display onto the Client system such info, same time, if the alarm hardware is being software reset, but not yet hardware reset, the Server will also send this status info to the Client system and display as such</p> <p><b>De-activated</b> (<input type="checkbox"/>) , will not send any of the MEGAsys Server related alarm hardware device status info</p> |

### Repeat Server Event Message

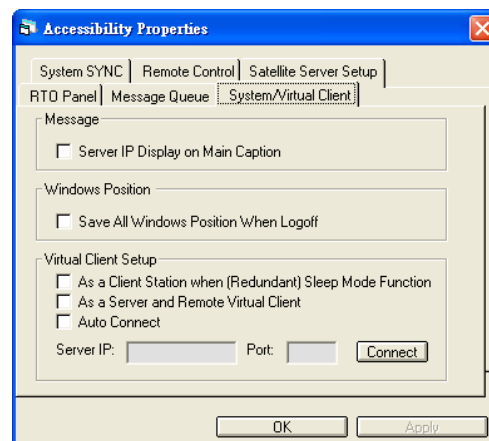
|                   |   |
|-------------------|---|
| 1. Access Message | <p><b>Activated</b> (<input checked="" type="checkbox"/>) , will send all the MEGAsys Server related access control record data, and also display it on the System Event Log window such data</p> <p><b>De-activated</b> (<input type="checkbox"/>) , will not send nor display anyMEGAsys Server related Access Log data</p> |
|-------------------|---|

### Repeat Server Control Output Message

|                   |  |
|-------------------|--|
| 1. Control Events | <p><b>Activated</b> (<input checked="" type="checkbox"/>) , this Control Events function is similar with that of Alarm Message. All the Output Message will be send and displayed from the Server side to the Client system</p> <p><b>De-activated</b> (<input type="checkbox"/>) , will not send or display MEGAsys Server's Output Message data.</p> |
|-------------------|--|

### Default Option – Page 3 System:

This is to set up the display of relative Server IP address, when log-out of the system is there a need to store all the widow position and execute the settings of Virtual Client.



#### Message

|                                      |  |
|--------------------------------------|--|
| 1. Server IP Display on Main Caption | Activated ( <input checked="" type="checkbox"/> ) , Displays when on-line linkage established between MEGAsys Server IP address, and the MEGAsys Server IP address (as shown on the Title Bar of the Sever system) |
|                                      | Deactivated ( <input type="checkbox"/> ) Will not display the MEGAsys Server IP address.   |

#### Windows Position

|  |   |
|--|---|
| 1. Save All Windows Position When Logoff | Activated ( <input checked="" type="checkbox"/> ) , when user log-out from Client system, the system will record the windows' addresses already opened by the operator. Next day, when operator log-in the system again, these previous windows will be opened again at the original locations. |
|--|---|

#### Virtual Client Setup

|   |  |
|---|--|
| 1. As a Client Station when (Redundant) Sleep Mode Function | Activated ( <input checked="" type="checkbox"/> ) , When Redundant system enters into Suspended mode, Redundant system will immediately act as a Client system, so-call Virtual Client, this is not to waste the resources of this system                      |
| 2. As a Server and Remote Virtual Client                    | Activated ( <input checked="" type="checkbox"/> ) , when this system has two roles, one being the main control system (or master Server for CCTV system), the other being a remote virtual client system (or Remote Virtual Client, for Access/Alarm system) ° |
| 3. Auto Connect   | Activated ( <input checked="" type="checkbox"/> ) , whenever system been boot up, system will auto link with the Server system, to receive Server system signals   |
| 3. Server IP  | When the first item of Virtual Client Setup is being selected, the display will show the user the IP address of the linked Server address  |
| 4. Port   | When the first item of Virtual Client Setup is being selected, other than displaying the IP address, it will also display the port number being used   |
| 5. Connect  | Press this key, user can manually link up with the Server system   |

- ② System manager (with the highest priority level) can edit/change the system settings within the Client system, and any changes made on the Client system will also be concurrently Renewed in the Server system
- ② After all the settings is completed, press the **Apply** key and then follow by pressing the **OK** to finish the job.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### ◆ Server IP Display on Main Caption (set up steps as below):



1. First, enter into this page “Server IP Display on Main Caption” °
2. Press **Apply** key
3. Server IP address will be displayed on the Server system Title Bar



### ◆ As a Server and Remote Virtual Client:

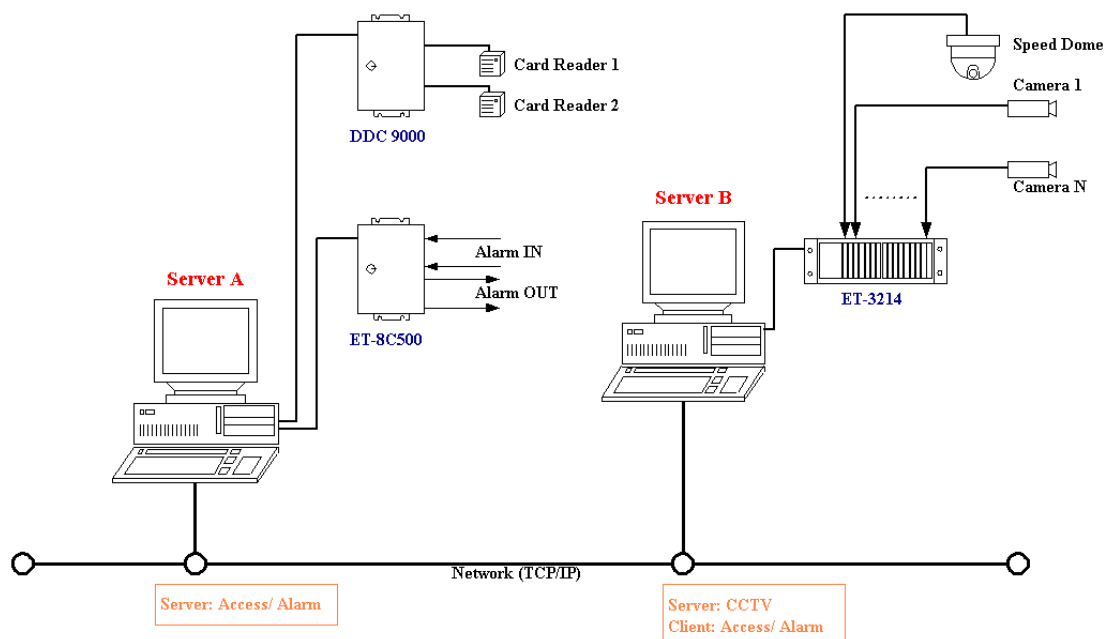
On the network, Server A has connected to some door access points and alarm systems, and Server B has connected to some CCTV system, as shown in 4.6.1.1

As a Server and Remote Virtual Client – (\*)

(\*) which means: this system function has been selected, to be main control (Server), and also as a (Remote Virtual Client) system.°

As 4.6.1.1 indicates, Server B is directly connected to CCTV system, it can immediately receive any signal or info from CCTV system, thus, this is the main control (Server).

As 4.6.1.1 indicates, Server B system need the network communication to receive the signal or info from another system (access or alarm), thus, this is just a (Remote Virtual Client) relative to the other installation of the system.

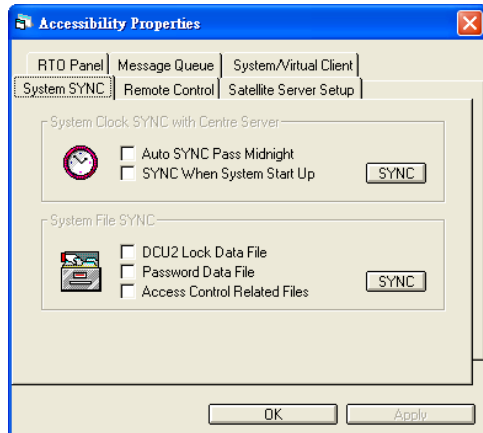


<Figure 4.6.1.1>

② Server B(from Server A) can report and print out any info it gets from the alarm & access control systems. , Server must be set up to get this function. Enter into [system communication] select Channel 9 – Redundant Port, and press on the Slave, enter Master IP address (of Server A), and then close off the Slave key. This because in order to get info from Server A, server B is just a Client, entry must be form the Slave.



### Default Option – page 4 System SYNC:



This page – System, “Virtual Client Setup” is related to the previous page. If the Virtual Client Setup is not selected, (As a Client When (Redundant) Sleep Mode Function” & “Auto Connect” not activated), then function of this page (System SYNC) cannot be set up.

The purpose of this pages to use RTO to synchronize the Main Server’s System Clock 、DCU2 Lock 、Password and Access Control’s Data File thru the network. When any of the info within the Main Server and within the Client Station has been changed, this info will be updated & sent out. User can choose any of all the topics on this page to make them synchronized thru RTO, as show in 4.6.1.2°

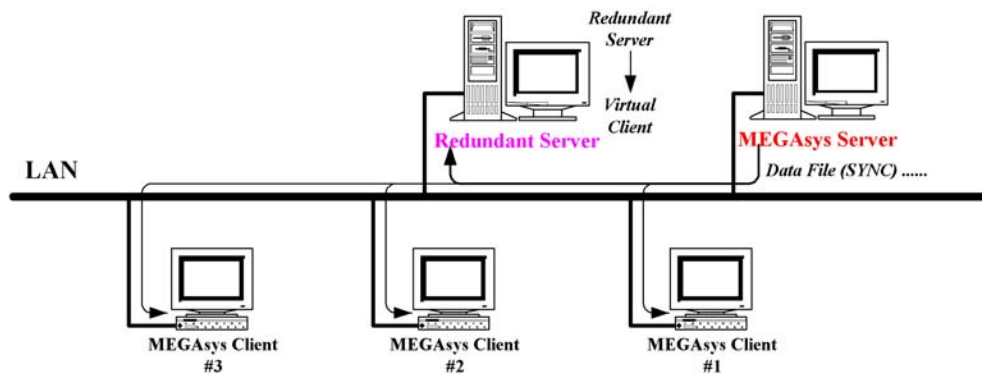
#### System Clock SYNC with Centre Server

1. Auto SYNC Pass Midnight – synchronize all the data on System Clock which covers two days, and then immediately send the update files to the entire Station thru the network.
2. SYNC When System Start Up – every time the system start, take all the System Clock info, and send via network to all the Station°
  - ★ SYNC – press this key, and instantly all the selected data files will be sent to entire Station°

#### System File SYNC

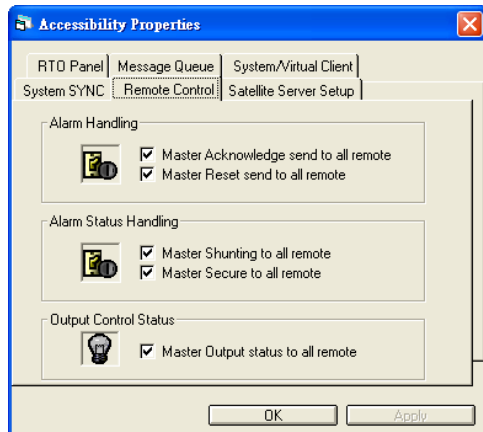
3. DCU2 Lock Data File – sync and send DCU2file date to all the Station°
4. Password Data File –sync and send all the workers’ PIN number to the Station°
5. Access Control Related Files –sync and send all the Access Control date file to the Station°
  - ★ SYNC –press this key, and instantly all the selected data files will be sent to entire Station

After set up, press the key **Apply** and then press **OK** to complete.



<Figure 4.6.1.2>

### Default Option – Page 5 Remote Control:



This page for setting the remote control of alarm and output signals. When alarm occurs, both the Main Server and the networked Client Station will concurrently receive the signals. User can go thru either Client Station or Main Server to acknowledge (ACK) · reset (Reset) · close off (Shunt) or turn on (Secure) all the alarm input points, as well as to remote output the status. All such actions will be executed concurrently on the system. But user must activate the function first.

#### Alarm Handling

1. Master Acknowledge Send to All Remote – When Main Server acknowledges the alarm inputs, (ACK) the entire network system will receive the “ACK” signal, this will change status of the entire system us.  
 ♦ If the system has NOT selected this function, the system will need to be ACK by itself.
2. Master Reset Send to All Remote – when Main Server (Reset) the alarm system, the entire network system will receive the “Reset” signal, and all the system device will all be concurrently reset changed.  
 ♦ If the system has NOT selected this function, the system will need to be RESET by itself.

#### Alarm Status Handling

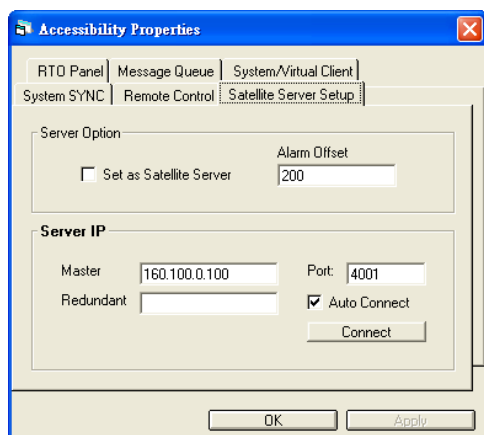
3. Master Shunting to All Remote – When Main Server carry out Shunting per the alarm input “Shunting” the entire network system will receive the Shunt signal, and enter into this same status.  
 ♦ If the system has NOT selected this function, the system will NOT display SHUNT status by itself.
4. Master Secure to All Remote –When Main Server carry out Secure command per the alarm input “Securing ” the entire network system will receive the Secure signal, and enter into this same status.  
 ♦ If the system has NOT selected this function, the system will NOT display SECURE status by itself.

#### Output Control Status

5. Master Output Status to all Remote – When the Main Server is under manual output per the map to the entire system, all the devices will receive this same output instruction.  
 ♦ If the system has NOT selected this function, then the system will NOT display the changed output status.

After the above set up, press **Apply**, and then press **OK** to complete.

## Default Option – page 6 Satellite Server Setup:



This page is for Satellite Server system setup. When this system is started, its data will be linked to the Main Server and/or Redundant Server. This means if the Satellite Server receives any alarm even report, Main Server and/or Redundant Server will also be notified. When this function is activated, it also indicates the Main Server and/or Redundant Server can do the remote control thru the Satellite Server.

**Server Option**

1. Set as Satellite Server – click to start Satellite Server functions
2. Alarm Offset – click to enter Satellite Server's alarm point setting  
Since the Satellite Server's alarm data file will also be concurrently be saved into the Main Server system. To avoid confusion at the Main Server, Satellite Server's alarm data must be automatically added with offset value before transferring and stored in to the Main Server.  
Example: Alarm Offset = 200 (Satellite Server #1), please refer to Table 4.6.1.1

|                     | Main Server  | Satellite Server #1 | Satellite Server #2 |
|---------------------|--------------|---------------------|---------------------|
| IP Address          | 160.100.0.12 | 160.100.0.14        | 160.100.0.15        |
| Local Address       | 1 - 32       | 1 - 64              | 1 - 48              |
| Satellite Server #1 | 201 - 264    | Offset = 200        | -                   |
| Satellite Server #2 | 401 - 448    | -                   | Offset = 400        |

&lt;Table 4.6.1.1&gt;



**Server IP**

1. Master – enter the Main Server IP address, every time Satellite Server will send the new network data to this IP address,°
2. Redundant – enter Redundant Server IP address, if there is no Redundant Server installed in the system, there is no need to fill in this item.
3. Port –fill in the port number “4001”, user should not anyhow change this port number
4. Connect – if this page is properly filled with the info needed, press this key, test to see if Main Server can be linked. If successful, user can see the message within the window of System Events Log (as shown below).°
5. Auto Connect – click this item, means when the system is being rebooted or system hang, the system can still make auto re-linkup between the Main Server (and/or ) with Redundant Server.

## Appendix – 4.6.5: Video Matrix Control Address Setup

To set the address, steps as below:




1. Using one set of video matrix (i.e. with camera input from 01-64 and with monitor output 01-16) its address should be #00, as shown on the right.

| MONITOR     |   | 0   | 1 | 2 |
|-------------|---|---|---|---|
| C<br>A<br>M | 0 |  |   |   |
|             | 1 |  |   |   |
|             | 2 |   |   |   |
|             | 3 |   |   |   |
|             | 4 |   |   |   |

2. If using 2 units of vertical stack up matrix , the first unit address should be #00 (i.e. with camera input from 01-64 and with monitor output 01-16), The second unit address should be #10 (i.e. with camera input from 65-128 and with monitor output 01-16), as shown on the left.

3. If using 3 units of vertical stack up matrix , the first unit address should be #00 (i.e. with camera input from 01-64 and with monitor output 01-16), The second unit address should be #10 (i.e. with camera input from 65-128 and with monitor output 01-16), and the third unit address should be #20 (i.e. camera inputs from 129-192, monitor output as 01-16), as shown on the right.

4. If using 2 units of horizontal expanding matrix, the first address still be #00 (i.e. with camera input from 01-64 and with monitor output 01-16), The second unit address should be #01 (i.e. camera input as 01-64, Monitor output 17-32), as shown above,

| MONITOR     |   | 0   | 1   | 2   | 3 |
|-------------|---|---|---|---|---|
| C<br>A<br>M | 0 |  |  |  |   |
|             | 1 |   |   |   |   |
|             | 2 |   |   |   |   |
|             | 3 |   |   |   |   |
|             | 4 |   |   |   |   |

5. If using 3 units of horizontal expanding matrix, the first address still be #00 (i.e. with camera input from 01-64 and with monitor output 01-16), The second unit address should be #01 (i.e. camera input as 01-64, Monitor output 17-32) and the third unit should be set as #02 (i.e. camera as 01-64, and monitors set as 33-48) as shown here.

6. If using 6 units of horizontal expanding matrix, the first address still be #00 (i.e. with camera input from 01-64 and with monitor output 01-16), The second unit address should be #01 (i.e. camera input as 01-64, Monitor output 17-32) and the third unit should be set as #02 (i.e. camera as 01-64, and monitors set as 33-48) as shown here 01-16), The 4<sup>th</sup> matrix should use address #01 (i.e. camera as 01-64, monitor as 17-32), the 5<sup>th</sup> matrix address should be #11 (i.e. camera input port as 65-128, monitor ports as 17-32). And the last 6<sup>th</sup> matrix address should be #02 (i.e. camera import as 01-64, monitor output as 33-48) , as shown here in the example.

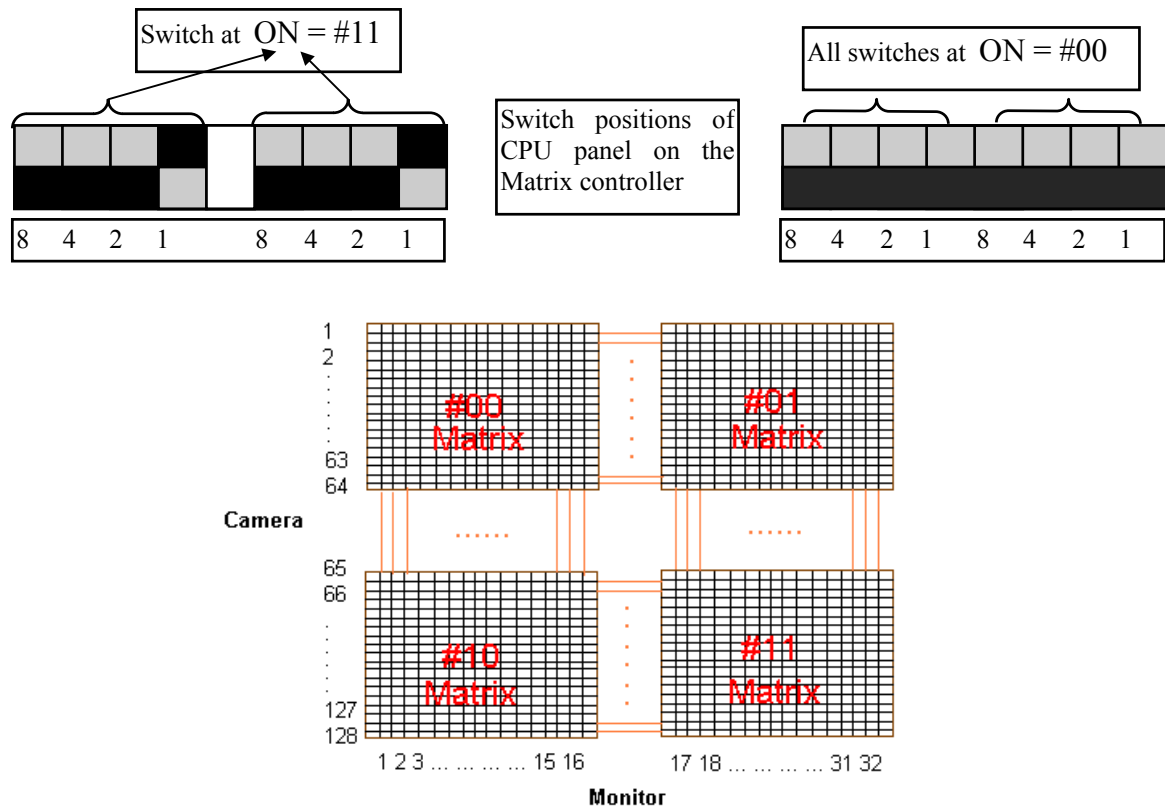
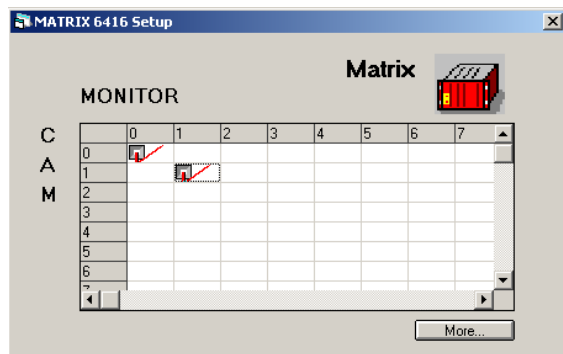


Figure 4.6.5.2

### Appendix – 4.6.5: Divided Mode of Control

This control method is different from the one before. This method can independently control 2 or more matrix. And can share part of the control to (Sub-station) control center. The main Control Central can still retain the control of all the devices (Figure 4.6.5.3). The previous method is to transfer the entire system's data file back to the Central Control and let it have the full control.

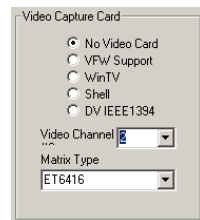


- ❖ This Divided mode of control requires the system Matrix to be installed in a diagonally way( as shown in the left)

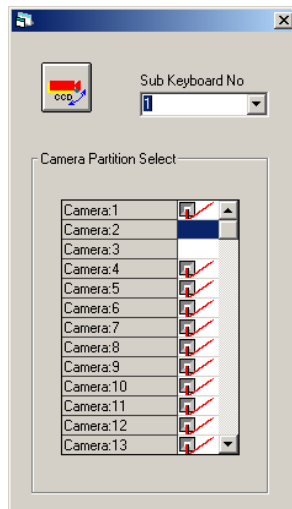
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

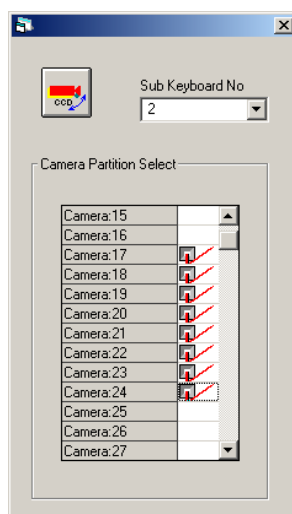
If user decide to use this method to connect and install the matrix, user must closely follow the below steps, otherwise the installation will not be successful.



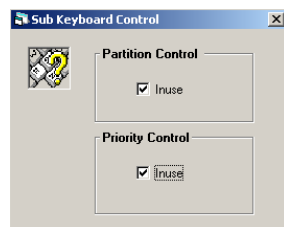
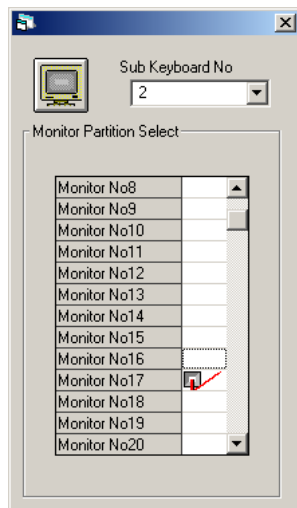
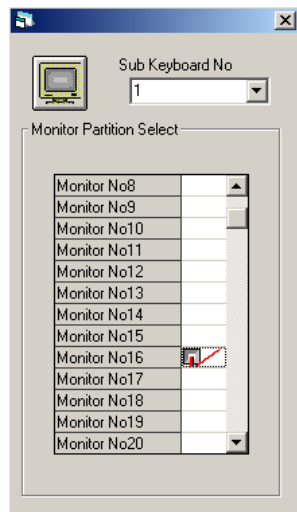
1. Entry path [System Setup] > [System Setup] > [System Setup] °
2. Make the setting within the Multi-media channel window, setup as per your system settings, (as shown on diagram 4.6.5.3)
  - i. On the video channel #0, input video signal #2, and input the cameras in –use (from #1 to #64)
  - ii. On the video channel #1, input video signal #18 , and input the cameras in –use (from #65 to #128).



3. To set the cameras to the sub-keyboard
  - i. Select the address of the sub-keyboard #1° Then, select the cameras 1-64 which the keyboard # 1 can control (as shown 4.6.5.3).



- ii. Select the sub-keyboard #2° And then select the camera numbers to be controlled by #2 (as shown on left). The number of camera range from 65-128 (as diagram 4.6.5.3) °



4. To set the number of monitors to be controlled by sub-keyboard.

- i. First, user select the sub-keyboard #1, and then select the number of monitors (as shown on diagram 4.6.5.3) for the number selection of monitors to be controlled by keyboard #1( which can a max control up to 16 units of monitors).

- ii. Select the sub-keyboard #2, then select the monitor N0. 17 (as shown on left diagram) to be controlled & operated by #2 as diagram 4.6.5.3

5. It is most important to set the system for the keyboard activities (as below).

- i. Select the priority level of the sub-system and of the sub-keyboard.

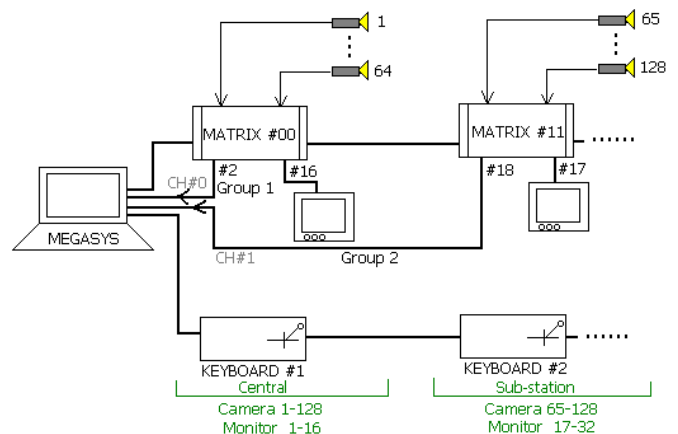


Diagram 4.6.5.3

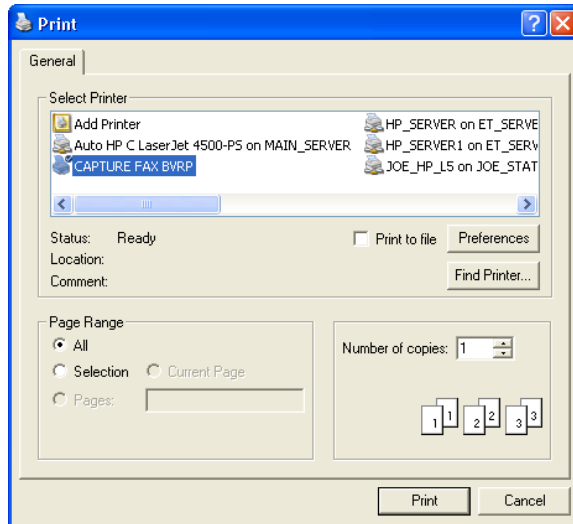
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### 4.7 Printer Setup



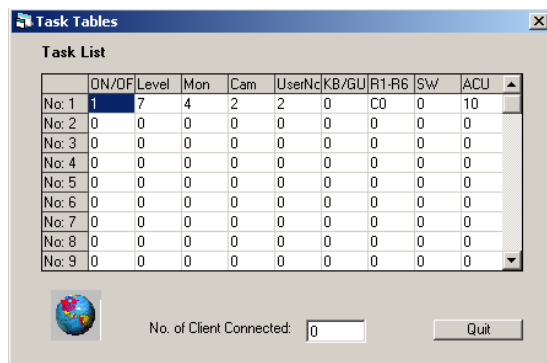
This is a normal setting of the system, if the system already has the printer, press to get into the Print Window.



### 4.8 Task Table



There are 16 sub-control communication numbers for the user to look up the system status or used to test the installation at point-of-service. Below is how the status can be checked.



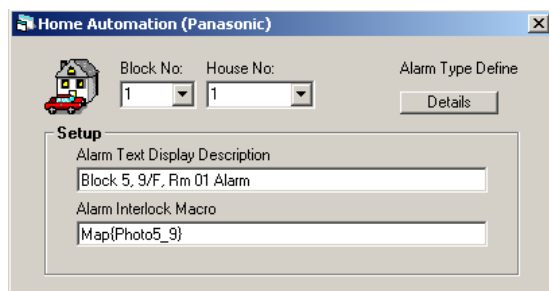
- No. of Client Connected  
This will indicate the number of users has log-in on the network system and using it.  
This No. of Client Connected is for indication purpose only. When number not equal to “0”, that means there are still user log-on to the computer, and thus do not log-off the system. System can detect this number and no need to manually input.



## 4.9 HA Automation



Home use surveillance is part of the special function of MEGAsy. This allow the home management to be set up. But this must be worked together with the Panasonic HA system, using Panasonic branded devices. (include 16 alarm descriptions and installations) When MEGAsys system receives signal from the system of Panasonic HA, it will act accordingly to the pre-set alarm interlock macros and display the overall status.

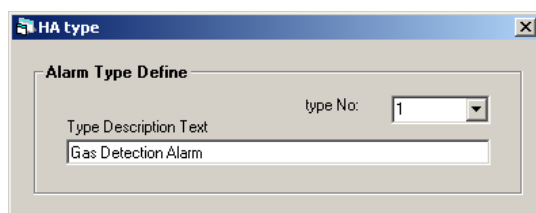


⑨ Block No.  
MEGAsys provide total 8 groups, Block1-8 outputs, for maximum control of 8 blocks of buildings..  
e.g. Block No. = 5

⑨ House No.  
House number is comprised of 4 digits. Every Block number can be assigned with a combination of 9999 ( 1 to 9999). House number is internally assigned by the Panasonic HA system.  
Example: House No. = 901, means 9<sup>th</sup> floor, unit 01

⑨ Setup  
Enter into the Setup box the related alarm signal (include Alarm Message & Interlock Data)

- Alarm Message  
When alarm signal received, display will show Block 5, 9/F Rm01 Alarm
- Interlock Data  
When alarm signal being received, will activate Macro command : MAP{Floor5\_9}, VOC{Alarm01}



⑨ Alarm Type Define Details  
Press **Details** key on Alarm Type Define, display will show a pop-up window, HA Type. Please enter the 16 different alarm types into the (Block) number.

- Type No  
MEGAsys system has max 16 groups for user to program and set into system.
- Alarm Type Define Message )  
Enter into Alarm Type Define box the alarm type, name, and the reminder words.

|                                  | Example 1                   |                             | Example 2                    |                              |
|----------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| <b>Block No.</b>                 | 5                           | 5                           | 8                            | 8                            |
| <b>House No.</b>                 | 901                         | 901                         | 1505                         | 1505                         |
| <b>Alarm Message</b>             | Block 5, 9/F Rm01 Alarm     | Block 5, 9/F Rm01 Alarm     | Block 8, 15/F Rm05 Alarm     | Block 8, 15/F Rm05 Alarm     |
| <b>Interlock Data</b>            | Map{Floor5_9}, VOC{Alarm01} | Map{Floor5_9}, VOC{Alarm01} | Map{Floor8_15}, VOC{Alarm08} | Map{Floor8_15}, VOC{Alarm08} |
| <b>Alarm Type No.</b>            | 1                           | 2                           | 2                            | 12                           |
| <b>Alarm Type Define Details</b> | Gas Detector Alarm          | Door Sensor Alarm           | Door Sensor Alarm            | Fire Detector Alarm          |

<Table 1>

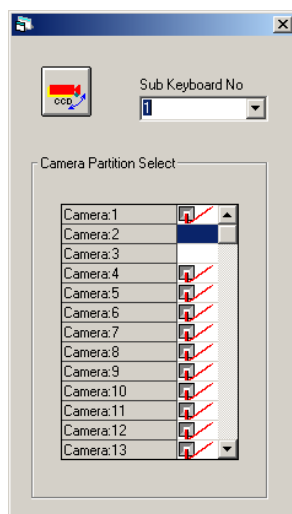
### 4.10 Sub-keyboard control setting



Most of the large scale CCTV system, has a real need for a total operating system. MEGAsys can provide [1-16] sets of sub-keyboard for the user. It is important to provide the authorization setting once many other sub-keyboard units has been added, while multi-users simultaneously operate at the same time yet not affecting each other who also has authorization to review video and to control the same cameras.

BMS is also being treated by MEGAsys system as a message communication sub-keyboard operation, user must also set the BMS system computer (with address) with proper operating authorization levels.

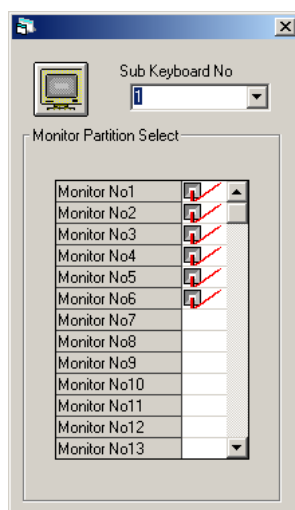
#### I. Priority Setting of Camera Control



If there are sub-keyboards within the entire system, when set up properly, can control all the cameras within the system, the devices (e.g. cameras – fixed or PTZ with auto focus) may affect the control center's control. As such, a careful priority setting is important to avoid any conflicts.

Example: set the sub-control keyboard to monitor the camera 1 to 13. Ignore this if there is no need to control these cameras. °

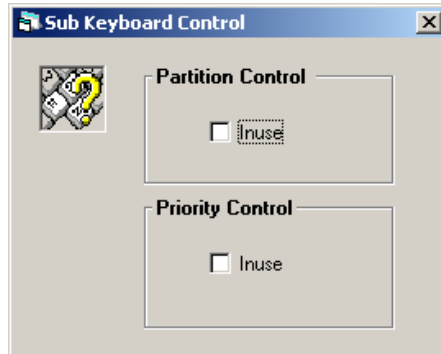
#### II. Monitor Control Priority Setting



Within the entire system, if there are sub-control keyboard set up for monitoring, then user must select all the monitor (including the central control room monitor, secondary monitors, access control monitors...) . Priority must be set properly to avoid the system conflicts.

Example: if sub-keyboard 1 is authorized to control monitor 1, then simply click and select from the pop-up window on the left. Ignore this step if no need for other screen to carry out monitoring

### III. Keyboard Control



Priority /authorization setting is very critical for the sub-keyboard operation. Thus it is important for user to first set the priority levels. The system will judge by the priority level when two operators are controlling the same PTZ camera. Higher priority operator will get to control the PTZ camera while the lower priority one will not be able. But first of all, please set the priority as below (i.e. at the 2<sup>nd</sup> box).

### 4.11 Communication Control Programming

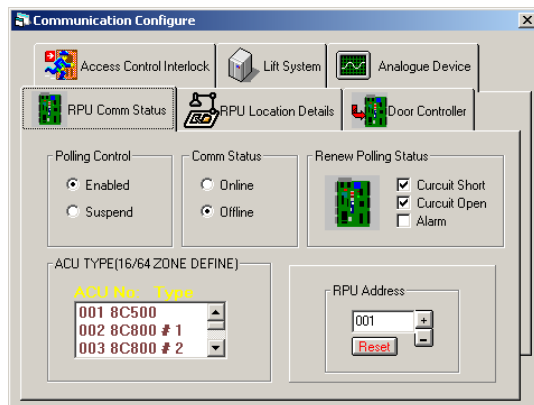


This chapter is for user to learn how to set up communication of the supplementary devices with the MEGAsys system. These include: ET-8C500 16 Zone Security Alarm Collector, ET-8C800 64 Zone Security Alarm Collector, DDC 9000 Double door access controller and ELV 1000 Elevator controller, or ET-4C300 64 Zone Alarm collector controller ...etc.

After the user has connected all the peripheral devices with the central security alarm collector, and find out only the (Rx)signal light have come on, without the (TX) signal. In this situation, check to see if there is any miss-connection of the signal wires. If connections are OK, the user may be has not given MEGAsys a proper communication control setup. Please follow the steps below. °

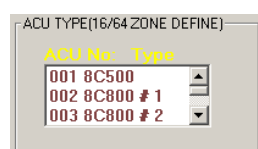
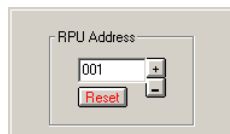
#### <Select ET-8C500/ ET-8C800 pop-up window>

If user program wants to program the ET-8C500/ ET-8C800 Remote Control Decoder, steps are as below.



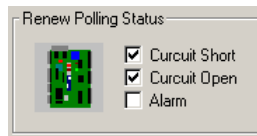
#### Page 1 Communication Control:

- **Patrolling Collector**  
User must first select the addresses of the tested alarm collector devices, then the next step is to open the communication port of the MEGAsys. Click mouse onto the small circle [ until a black dot appear], to confirm open of the MEGAsys communication.
- **Communication Status Display**  
About 3 minutes after opening the alarm collector communication, the user can see the status on the screen.. After opening the MEGAsys's alarm collect to communicator for 3 minutes, user can see the Comm. Status as below.
  - **Off-line** – means that MEGAsys communication system is still not connected. If report shows on lower left corner, [ACU001] off-line, user must inspect the connection wires and try to find out where is the problem.
  - **On-line** – means that the alarm collector and the system is connected for communication. Once this step is successful, the user can continue to test the other devices.
- **Alarm Collector Address**  
The address starts with 1 to 256. User need to pay attention to the different addresses for different model of collector. Only open the ones which has been properly tested. Do not open those which the collector's address has not been setup. This is because the system will continuously survey the "already opened " collectors. Otherwise, the system will waste a lot of time to survey and still cannot find the collectors which has been tested and opened. This will affect the system efficiency of the MEGAsys under normal operation mode
- **Reset** – This is a remote control button, and used for reset the ET-8C500/ ET-8C800 controller work status. This software reset signal is being transmitted to ET-8C500/ ET-8C800 (same effect as when user pressing these 2 physical buttons).



### Security Alarm Collector Address

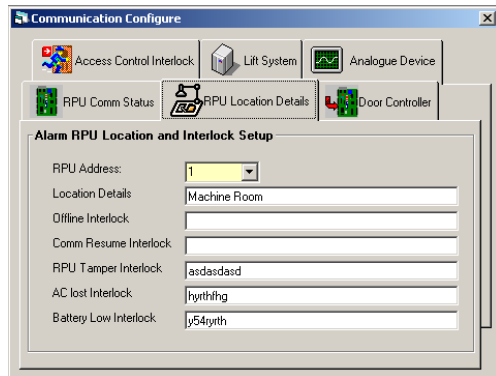
Before the user set this address, he must understand clearly device addresses. ET-8C500 has a collector of 16 import zone, and has only one address. But ET-8C800 has 64 import zone collector, and has 4 addresses. (as shown) Normally, ET-8C500 has one address (001Red), but 64zone input ET-8C800 has 4 addresses (003-006Blue). The next one after selecting ET-8C800 (003-006), address should start with (007). And the address must be same with the other peripherals devices.



### Renew Polling Status

User may want to renew the status of the security alarm collector with the MEGAsys system, under either Circuit Short or Open situations.

- Circuit Short – Check the devices from the alarm collector to see if there is any short circuit problem.
- Circuit Open – Check the devices from the alarm collector to see if any open circuit problem exist.
- Alarm – reset the security alarm collector status

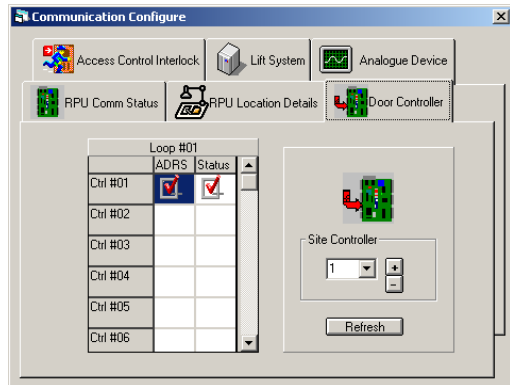


## Page 2 Communication Configure

- RPU Address The address start with 1 to 256, click to open the collector to set the address. Example, to set the RPU address, location details, battery low interlock.
- Location Details – location of the keyboarding.: LOCATION: 001
- Offline Interlock – input the proper MACRO commands. But when the system detect the RPU is not on-line, it will execute the input of this Macro Command
- Comm. Resume Interlock – when the system resumes the on-line, it will input this Interlock command.
- RPU Temper Interlock – when the system detect if there is anyone trying to temper with the RPU, the system will input this command . e.g.: MON 003 CAM 006, MAC 001
- AC Lost Interlock – when the AC main power is being lost, the Macro will execute this command. E.g. start the backup power supply and start this Macro to inform the repair service person.°
- Battery Low Interlock—when the system detect the battery low voltage signal, it will automatically execute this command . e.g. inform the service person to replace the battery.

# MEGAsys – Server

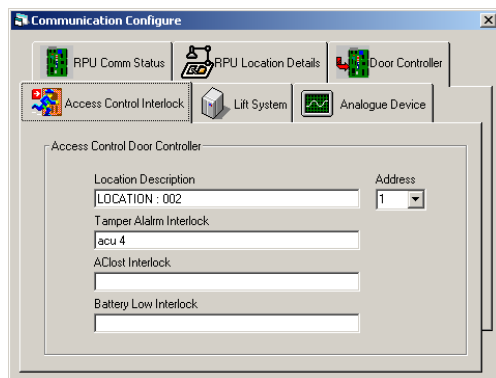
## Graphic Alarm Display System Software Programming Manual



### Page 3 Communication Controller Configure

When using the DDC 9000 & ET-121 this page of door access control diagram will appear.

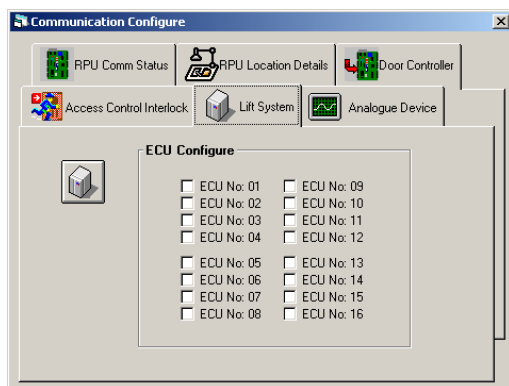
- Site Controller – click down this arrow, user will see the 1-8 site Controller for selection Site Controller address which can connect in series a maximum of 30 units of DDC9000 controller.
- Loop # - after selecting the address of the Site Controller, user can then select which unit of DDC 9000 controller device. Left click the mouse between the ADRS & Ctrl # a check mark will appear on the square of the [Status]
- ❖ After ET-121, DDC 9000 and computer are hooked up, Status will be displayed. If the display do not show up, it means that you have not installed the device. Please check carefully.
- ❖ Please refer to the MEGAsys Quick Test Manual Ver.2.3 (For MEGAsys Ver.3.xx) Chapter 7 section V



### Page 4 Access Control Configure

Access Controller Door Controller:

- Address selection – access address can be assigned between 1 to 30 for which door.
- Location Description – type in with keyboard, e.g.: LOCATION: 001
- Tamper Alarm Interlock – input the MACRO command, when system detect any controller being tampered with, the command will be executed. E.g.: ACU 001 OUT 002
- ACllost Interlock – input the MACRO command, when AC power is loste.g. start the back up power supply and info the repair service person.
- Battery Low Interlock—input the MACRO command when system the signal of battery voltage low, e.g. info the repair person to come replace the battery.



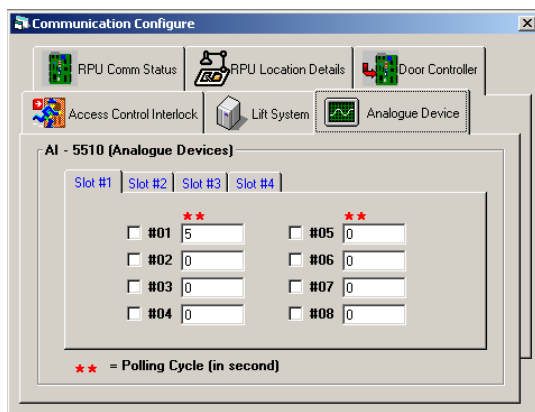
### Page 5 Elevator Control Unit (ECU):

Within this page, set the number of elevator which as the ECU devices installed.

Before using this control unit, user must configure which of the ELV 1000 are being used.

Click onto the ECU squares next to the numbers until the check marks appear.

- ❖ For writing MACRO, user please refer MACRO Menu Ver.1.0 (For MEGAsys Ver.3.xx)
- ❖ There is some difference between this Page 3 and the page 4 of Chapter 10 (Communication Status). Individually to be edited on page 3-4, but the Chapter 10 only display the positions of the collectors, User cannot do any edit changes.



### Page 6 Analogue Device Setup:

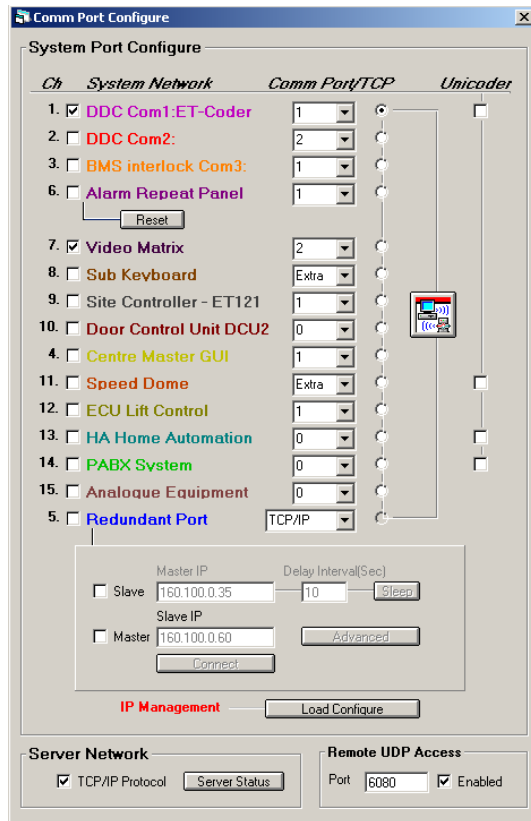
Analogue service only support the model of AI-5510, which has 4 slots: (Slot #1, Slot #2, Slot #3 & Slot #4), and each slot has analogue inputs. Click next to each of the group, the user can input time of the polling cycle.

### 4.12 Communication Port



There are a lot of device which will be connected to the computer of the MEGAsys system. Example,; sub-keyboard, video matrix, PTZ camera decoder, all in one fast dome camera...etc,. They all utilize the 4-channel RS-422 communication card on the main system.

The user can refer to this chapter to know how to connect multiple devices with the MEGAsys system so that they can be communicating to work together as a whole.



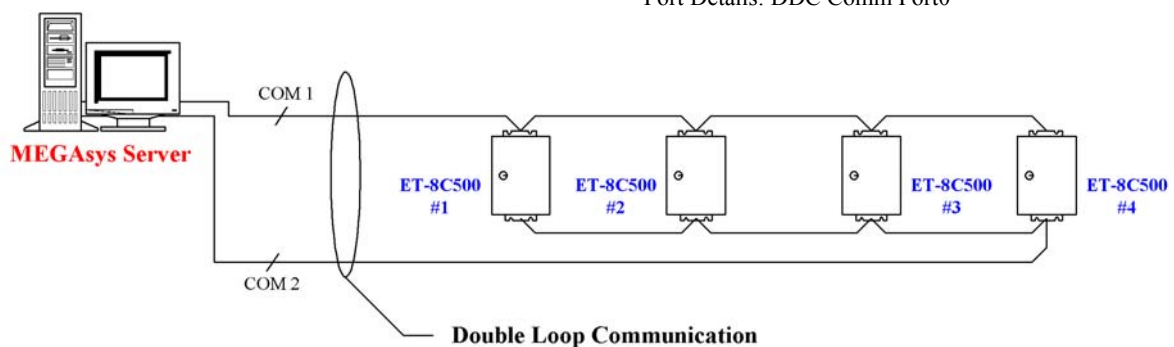
#### ➤ System Port Configure

- ✓ Channel – User can select the 256 port numbers and Extend COM Port ( exclude Redundant Port).

If the user need to select the device signal to go through multiple paths to install the ports, he need to use the system port to configure.

#### ➤ System Network – there are total of 15 different devices/systems for user to select.

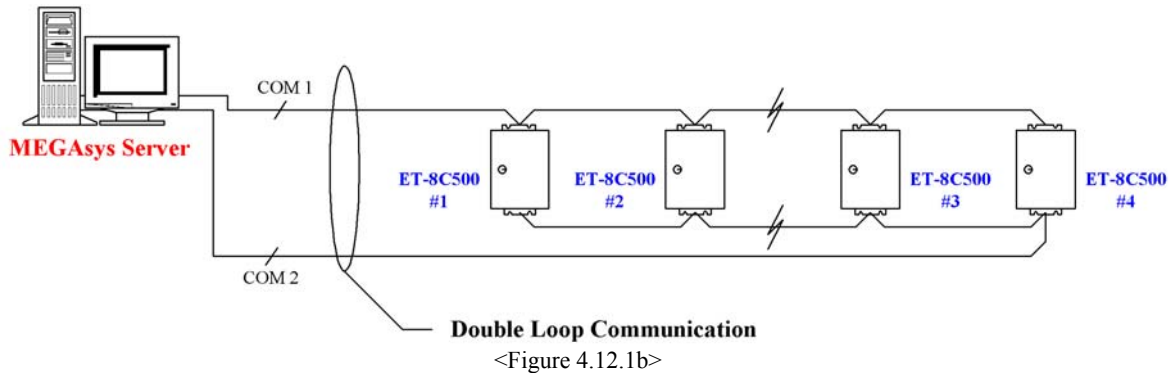
1. DDC Com 1:  
Connect the alarm RPU (Model numbers: ET-8C500 、 ET-8C800 、 ET-4C300 、 ET-200) , as diagram 4.12.1a°  
Port Details: DDC Comm Port
2. DDC Com 2:  
Connect the device same as “DDC Com 1:” only different in usage and functions. This one is for the backup channel, / Spare Cable. When the communication line is being cut/disconnected, as diagram 4.12.1b, the communication will kept comminuted.  
Port Details: DDC Comm Port0



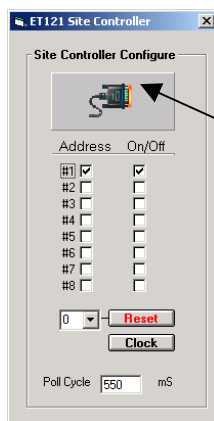
<Figure 4.12.1a>

- ❖ Double Loop Communication means that DDC Com1 and DDC Com 2 being used together can prevent the lots of any one alarm RPU signal. Example::  
When #2 & #3alarm RPU are being cu off in communication, as diagram 4.12.1b, Com 1 cannot communicate with RPU #3, then the Com 2and #3 RPU can allow the system to continue to receive all the RPU alarm signals, because the Com2's communication line is starting to connection from the first one



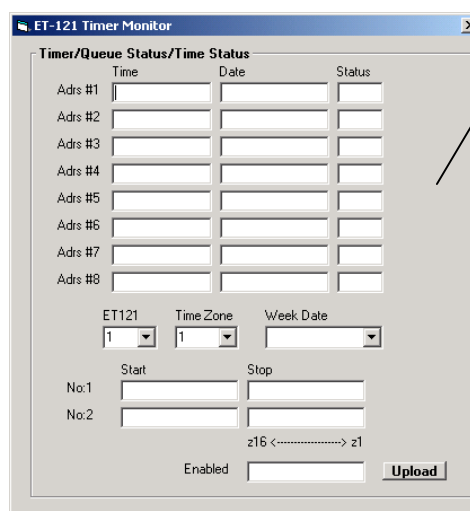


3. BMS Interlock Com 3:  
This is the BMS higher language interface. When the system is being connected with the Mimic Panel, Display Device, there is a need for MEGAsys system to click start the communication device, so that the system can receive and send the device signals, and continue communication.  
Port Details: BMS Interlock Comm Port
4. Alarm Repeat Panel  
To be used when connecting the LED Sub-panel device (Product name: Alarm Repeat Panel)  
  - Reset – Only suitable with Alarm Repeat Panel. When Alarm Panel is connected to Main Server, the operator can use this Reset key to do the remote control. Reset signal will be communicated via this port to Alarm Repeat Panel, to execute the Reset. Example : when system device has alarm error, system hang, or alarm reset...etc.
 Port Details: Alarm Repeat Panel
5. Video Matrix  
Video Matrix channel connector (Model: ET-3214 、ET-6416) and Voice Matrix controller (Model: ET-3216A) 。  
Port Details: Video Matrix Channel
6. Sub-keyboard  
Sub-keyboard connector (Model: ET-KB500 、ET-KB800) 。  
Port Details: Sub Control Keyboard Comm Port
7. Site Controller – ET121  
Connect between site controller and door control unit. (Model: ET-121 、DDC9000) 。  
Port Details: Site Controller Comm Port



When the user need to use this channel, click on the 4 boxes next to Site Controller “ET-121 Site Controller” window will appear.

Click this icon, window ET-121 Timer Monitor will appear as below.



This window is for the operator check time/date

8. Door Control Unit DCU2  
Connecting the electric lock controller (Model: ET-DCU2) ◦  
Port Details: Door Controller Unit DCU2 Comm Port
9. Centre Master GUI  
Connecting another unit of system device or elevator controller (Model: ET-ELV1000) ◦ When the alarm device is being triggered, the MEGAsys Main Server system will receive this signal, and will send off this signal to another system/ computer display.  
Port Details: Centre Master GUI Comm Port
10. Speed Dome Control  
Connecting the other PTZ camera decoder (Not including ET products) ◦ Any of the brand or model of PTZ available in the market, to be used with MEGAsys system, need to be connected to a Unicoder device, so that the PTZ protocols can send back data to the MEGAsys system. About the Unicoder installation info, please call Everett Electronics or their local representatives.  
Port Details: Speed Dome Camera
11. ECU Lift Controller  
Connecting the elevator controller unit (Model: ET-ELV1000) ◦ When alarm is triggered, the MEGAsys Main Server system will receive this signal, and will send this signal to the pre-assigned system or display monitors.  
Port Details: ECU Lift Controller
12. HA Home Automation  
Connect Panasonic HA system. If the system need to add a system of Home Automation, a Unicoder must be installed to connect with MEGAsys. Home Automation signal/data can be sent back to MEGAsys 系統◦ About the Unicoder installation info, please call Everett Electronics or their local representatives.  
Port Details:
13. PABX System  
Connect to a PABX telephone system, when a telecom system is needed. Need to connect the PABX with MEGAsys thru a Unicoder device to send all the telephone data back to MEGAsys system. About the Unicoder installation info, please call Everett Electronics or their local representatives.  
  
Port Details:
14. Analogue Equipment  
Connect to Analogue device.  
Port Details:
15. Redundant Port  
Connect to Redundant Server device.

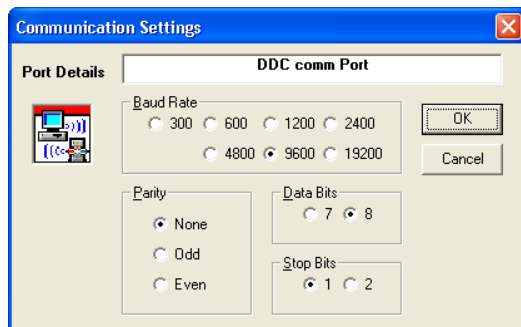
### Appendix – 4.12: Redundant Port

- ❖ *All MEGAsys Client must use the TCP/ IP Protocol to communicate with other remote devices.*

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---



### ➤ Communication Settings


Use the Communication Setting window for the setting, depending which type of device selected to install, the system will select and display the related communication port window.

All ports use the same Communication Settings – Port Detail, for the current Baud Rate, Parity, and Data Bits.

Under normal circumstances, if the system need a certain type of communication device signal, user must utilize a path to install. This is the function key for this purpose.

❖ *Pls refer more on this topic from <Table 4.12.1> COM Port Setting*

Example: Select #1 as the DDC Comm Port

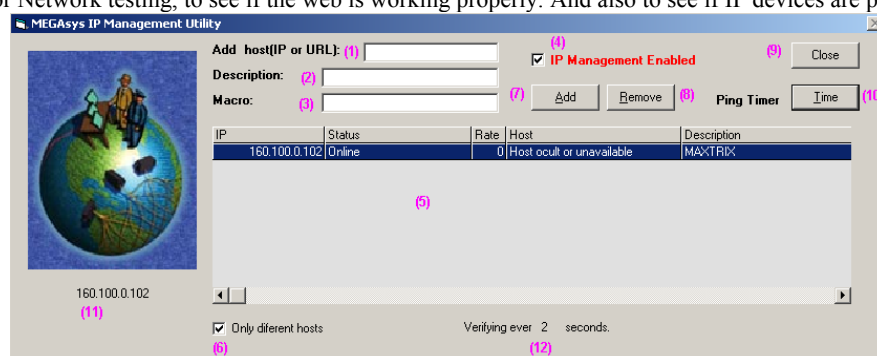
1. Select #1port, left click to it, there will be a [x] appearing.
2. Click to its right on the black dot, and then select the Channel as COM 1
3. Right click to the icon , Communication Settings window -- Port Detail will show a DDC Comm Port
4. Then enter the speed of the port as 9600 Baud Rate; None Parity; 8 Data Bit; 1 Stop Bit
5. Press **OK**. Same steps for setting the other communication ports.

&lt;Table 4.12.1&gt; COM Port Setting

|                            | Baud Rate | Parity Bit | Data Bit | Stop Bit | Remark   |
|----------------------------|-----------|------------|----------|----------|--|
| 1. DDC Com1:               | 9600      | N          | 8        | 1        | /  |
| 2. DDC Com 2:              | 9600      | N          | 8        | 1        | /  |
| 3. BMS Interlock Com 3:    | /         | /          | /        | /        | <ul style="list-style-type: none"> <li>There is practically no limit on the communication speed, all depends on the BMS connecting device.</li> <li>If need to use <u>Xcom/PABX</u> systems, please use this comm port for setting.</li> </ul> |
| 4. Alarm Repeat Panel      | 9600      | N          | 8        | 1        | /  |
| 5. Video Matrix            | 9600      | N          | 8        | 1        | <ul style="list-style-type: none"> <li>If need to use <u>Audio Matrix</u>, please use this comm port for setting, same speed as the Video Matrix.</li> </ul>   |
| 6. Sub-keyboard            | 9600      | N          | 8        | 1        | /  |
| 7. Site Controller – ET121 | 9600      | N          | 7        | 1        | /  |
| 8. Door Control Unit DCU2  | 9600      | N          | 8        | 1        | /  |
| 9. Centre Master GUI       | /         | /          | /        | /        | <ul style="list-style-type: none"> <li>GUI – practically no limit on speed, all depends on the system or the computer it is connected to at the other end.</li> </ul>  |
| 10. Speed Dome Control     | 9600      | N          | 8        | 1        | <ul style="list-style-type: none"> <li>To use any brand of PTZ controller, , there is need to connect it to a Unicoder, before the MEGAsys can receive the signals.</li> </ul>   |
| 11. ECU Lift Controller    | 9600      | N          | 7        | 1        | /  |
| 12. HA Home Automation     | 9600      | N          | 8        | 1        | <ul style="list-style-type: none"> <li>Baud Rateset as 9600° User can change the setting per the Panasonic HA being used. Unicoder is needed</li> </ul>  |
| 13. PABX                   | 1200      | N          | 7        | 1        | <ul style="list-style-type: none"> <li>Depends on the speed of the system user is using. User can change the communication speed. Unicoder is needed.</li> </ul>   |
| 14. Analogue Equipment     | 9600      | N          | 8        | 1        | /  |
| 15. Redundant Port         | /         | /          | /        | /        | <ul style="list-style-type: none"> <li>This comm. Port uses TCP/ IP. User must set it as TCP/ IP port.</li> </ul>  |

## ➤ IP Management

Can use for Network testing, to see if the web is working properly. And also to see if IP devices are properly connected.



1. Input (IP)or (URL) °
2. Network address and description
3. When off-line detected on IP, activate MACRO
4. Activate the IP Management function
5. Info display zone, max 100 sets of info
6. Function activate, means more than 2 has same Host Name, (not check)

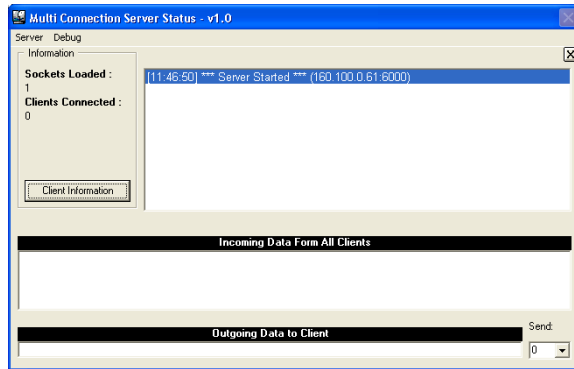
7. Newly added IP setting info
8. Delete IP device info
9. Save all the info and close the window
10. Open Time Interval window, set Ping time interval
11. Activate function, display scanning for IP°
12. Display Ping time's intervals

❖ IP Management function uses 37 ports for testing.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---



- Server Network
- ✓ TCP/IP Protocol
  - ◆ Server Status –

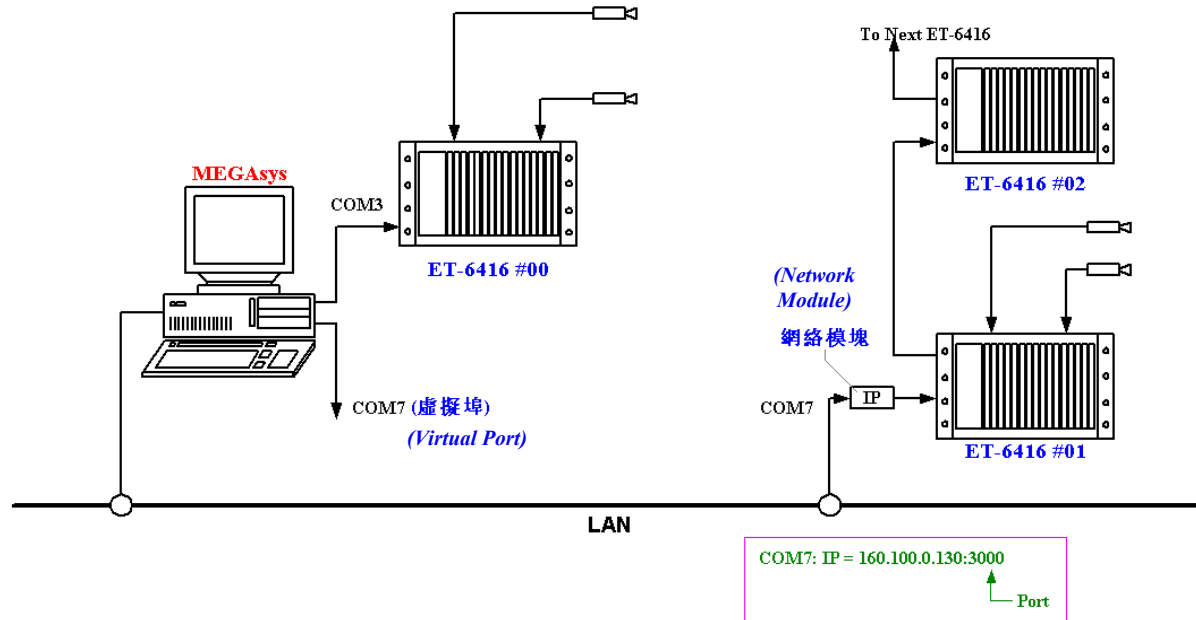
- ✓ TCP/ IP Workstation – utilize network link to communicate with other systems. All the linked server must be defined first before use. Take all the sub-stations and their names and IP addresses, utilize the (Level) video frequency, to send the video from the sub-station (Output No :) to the Main computer's input port (In No:).

Press **Configure** key, to show the– TCP/ IP Connect – window, please refer to this manual (chapter 4 section 6.10 for the function and application).

Local Port No. – Use on the network for setting transmission in/output to port address (range of address, any one between 1000-6000) normally select 3000, to prevent conflict with other communication types.

### Appendix – 4.12: Extend COM Port

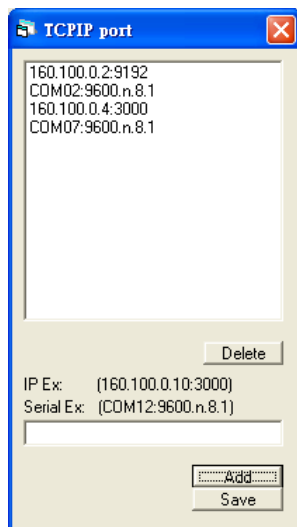
To use the computer system outer communication port (virtual comm. Port) which will only apply and generate on the network system. Named as Redirector Extend COM Port, will be used on (Alarm) & (Matrix) devices, including video and audio matrix.



<Figure 4.12.2>

#### Application – example:

As shown 4.121.2, Networked computer connected with ET-6416 network card device ET-6416 #01 to obtain an IP address utilizing network module, (COM7: IP = 160.100.0.130) °



How to add COM7virtual comm. Port to the computer, and thru this port control three remote ET-6416 device to get video images? Steps of setup as below:

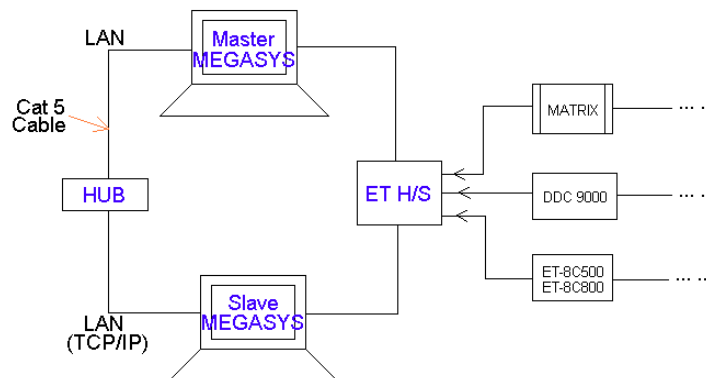
1. Click on the left of Video Matrix
2. Select Extend on the Channel, by click the down arrow
3. Window appear – TCPIP port°
4. Enter COM07:9600.n.8.1into the window box in the middle low portion. Click the **Add** key, and add the Serial Port, as shown on the left diagram.
5. After selection, click down the TCPIP Port(lower right) to **Save** settings into the storage. Click the sign above to back out.

After setup, the user can use the computer system to get the video of remote COM7 ET-6416 from the user's main computer

- ❖ About connecting the network module ET-6416 steps and the setting parameters, please refer to ET-6416Network Installation Manua land MEGAsys – ServerQuick Start installation Manual Chapter 6 – Redirector (Network System Portion).

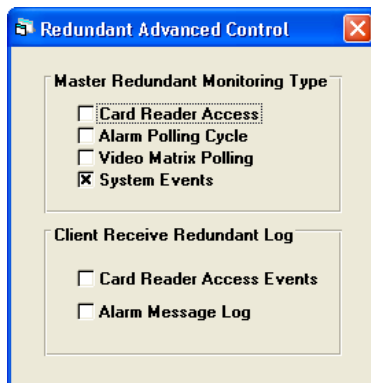
### Appendix – 4.12: Redundant Port

If the system need to use (Redundant Server), user must set up here. Normal use of the “TCP/ IP” -- COM Port, the backup system need to provide a perfect network for support. Under normal situation, this machine may not show its real use, as there are no computer in any disorder. But when emergency happens, main computer goes down, this Redundant become very important and useful. This so called Slave/ Redundant Server, normally work as the Master . The (TCP/ IP) can connect the main computer (Master) and the redundant /backup computer (Slave) , as shown in 4.12.3°



<Figure 4.12.3>

- Sleep – temp stop Slave system for 10-15 seconds (depends on the system settings), to allow the Mastersystem can reboot and start work again.



- Advanced – new window show up as the – Redundant Advanced Control°

- ⌚ Master Redundant Monitoring Type – select here for the type. Master(when system cannot be received) Slave (will be awoken from sleep to temporary take up the work of the Master system).
  - ☒ Card Reader Access
  - ☒ Alarm Polling Cycle
  - ☒ Video Matrix Polling
  - ☒ System Events

| Example 1  |   |   | Example 2   |                          |   | Example 3  |                          |                          |
|--|---|---|---|--------------------------|---|--|--------------------------|--------------------------|
| C  | A | M | C   | A                        | M | C  | A                        | M                        |
| <input type="checkbox"/>   |   |   | <input type="checkbox"/>  | <input type="checkbox"/> |   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> |
| If Master cannot read card info (C) Master will stop work, and turn over to Slave to continue , until Master can resume card reading work. |   |   | If Master cannot read card info (C)and alarm signal (A) Master will stop work, and turn over to Slave to continue , until Master can resume card reading work and receive alarm . |                          |   | When Master concurrently cannot receive any of the 3 signals/info, the system work will be turn over to Slave until Master returns to normal and start receiving these 3 info. |                          |                          |

Table 4.12.2

- ◆ C – Card Reader Access
- ◆ A – Alarm Polling Cycle
- ◆ M – Video Matrix Polling

- ⌚ Client Receive Redundant Log – Slave system is in Sleep status, continue need to receive the info. When these info has been selected, means the Slave system during sleep will still receive these info.
  - ☒ Card Reader Access Events
  - ☒ Alarm Message Log

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

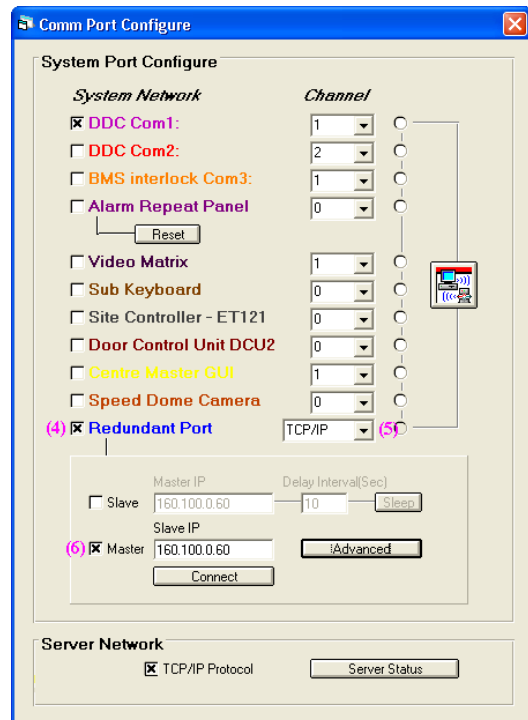
### Redundant Port Setting:

As shown in diagram 4.11.3, when connections are made, user need to set all the system functions as below.



1. Need to know the IP addresses of Master MEGAsys and Slave MEGAsys system As:  
(Master MEGAsys) IP: 160.100.0.61  
(Slave MEGAsys) IP: 160.100.0.60  
Individually set into the MEGAsys system.
2. Enter into the System Communication.
3. Get into the window Comm Port Configure
4. Click into box next to Redundant Port
5. Select (Channel No.), normally select as "TCP/IP", click the down arrow for other select of COM Port
6. When selection is made, the number will appear from its background. The system that is currently in-use is the Master MEGAsys, Click on to the box next to Master until color turns in darker color. Then enter the address of Slave IP.

❖ If the system currently in-use is the Slave MEGAsys, click on the same square next to Slave until color change to darker, enter the Master IP address. Then enter the Delay Interval (Sec.) at the bottom box for delay time, normally set as 10 seconds, can be adjusted by user later.



### Redundant Port Usage Method

System can be operational once all the connections are made. When everything is working normally, the Slave MEGAsys



is in a Sleep mode, showing this icon as the sleep status. When the Master MEGAsys is under working condition,



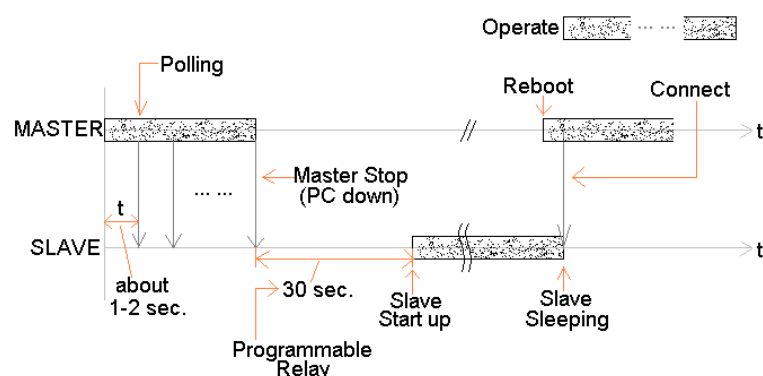
the icon of status will be shown as such.

When Master MEGAsys is working, it will send off a signal to the Slave, on the average of every 1-2 second, telling the Slave, Master is still normally working. Once the master (Master MEGAsys) have problem, and cannot work, (e.g. CPU out of order) and cannot transmit signals, and Slave counted 30 sec without signal received, then it will immediately take over the work of the master (delay time as set in the system). by then, the Slave icon will change into Master icon.

If Master system is being saved, only need to click on to the **Connect** key within the (system comm.) Master will resume work and Slave will go back to sleep (as show on diagram 4.11.4)

When Master cannot resume work, and have to force the Slave to stop all the work, the steps are as below:

Press down **Sleep** key, Slave will temporary stop receiving signal for 30 seconds, watch the Master system to see if it can return back to normal, and receive info. If after 30 sec, Slave icon turn from sleep to work status, this means the Master still have problem, cannot work normally. User need to continue pressing the **Sleep** key until system returns back to normal.



<Figure 4.12.4>



### 4.13 Operator Authorization Levels

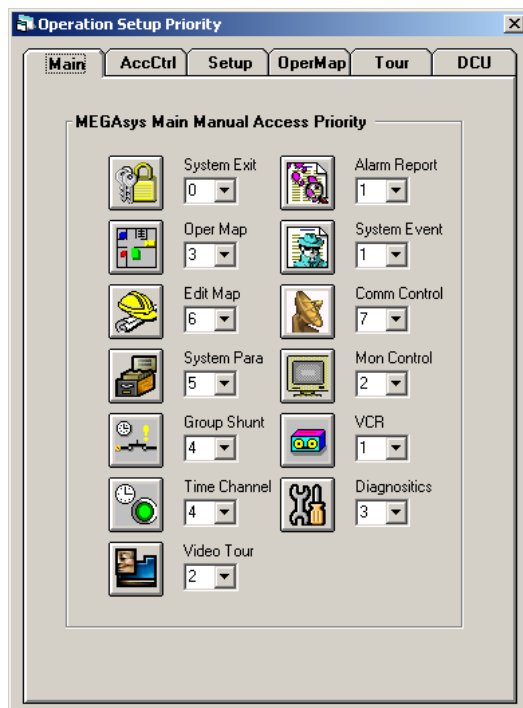


Within this manual at Chapter 4- 4.6.2, user should set the levels into 8 (0-7), This is important for user to set properly.

MEGAsys takes the edit, setting, operating,...etc tasks and separate them into 2 major types, to allow easier identification of operator and management levels of authorization. Example:

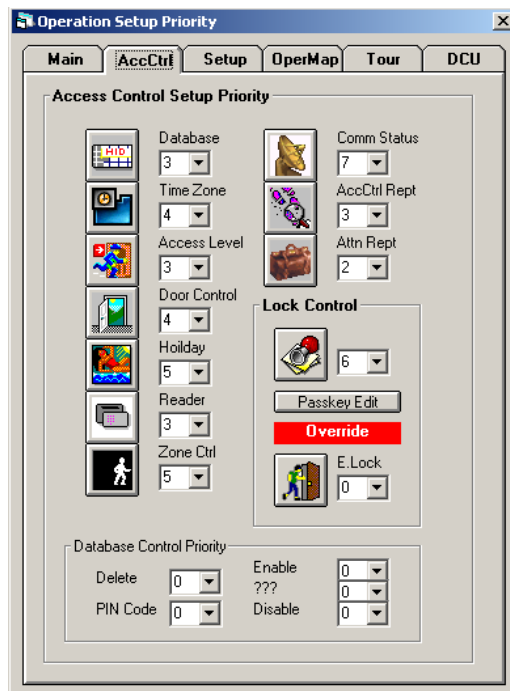
- Operator level [0-3]  
Daily operation work has different levels e.g. : [0] operator can only receive alarm, execute acknowledge and reporting. ° [3] operator can reset alarm during night shift. [0-1] operator for cameras are set as pre-set video touring and recording, Thus [0-4] operator cannot control the PTZ cameras.
- Supervisor/management level operator [4-7]  
Daily work operators are set into different levels e.g.: [4] operator can only execute alarm self-diagnostics, polling tests, handle system reports, and set patrol routes. [5] operator can execute different functions. [4] night shift operator also cannot control PTZ cameras.
- Authorization setting – must be equal or higher than the setting level before they can allow to do the programming, setting, editing and operating.

User should base on the system need to set operating diagram icon for different authorization levels. There are 5 pages for user to set these levels.°



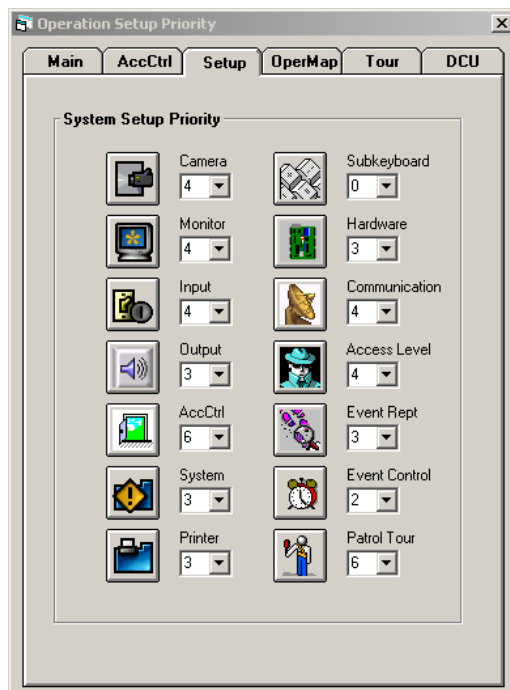
#### Page 1 Main functions:

This main menu page display all the entry control icons, simply point and click next to them, user can reset the access priority levels.



### Page 2 Access Control:

This page shows all the access control related icons, user can point and click next to the icon to reset the priority levels.



### Page3 Data base:

Within this page, user can edit and change the priority level of this database (i.e. same as [system edit] function page on the main menu).

# MEGAsys – Server

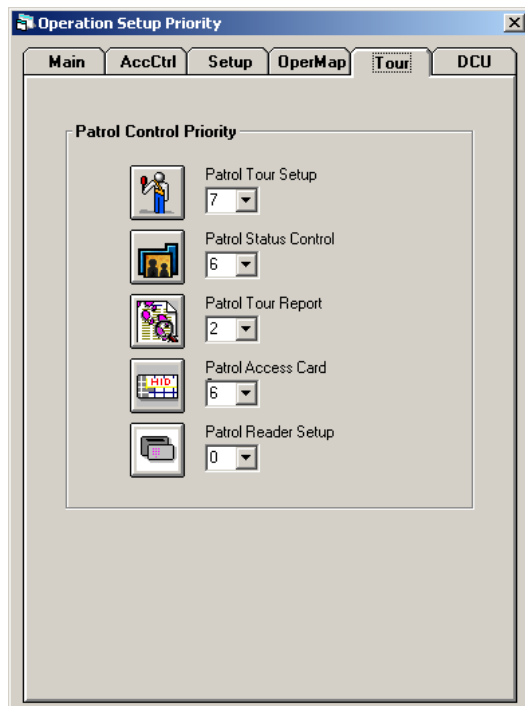
## Graphic Alarm Display System Software Programming Manual

---



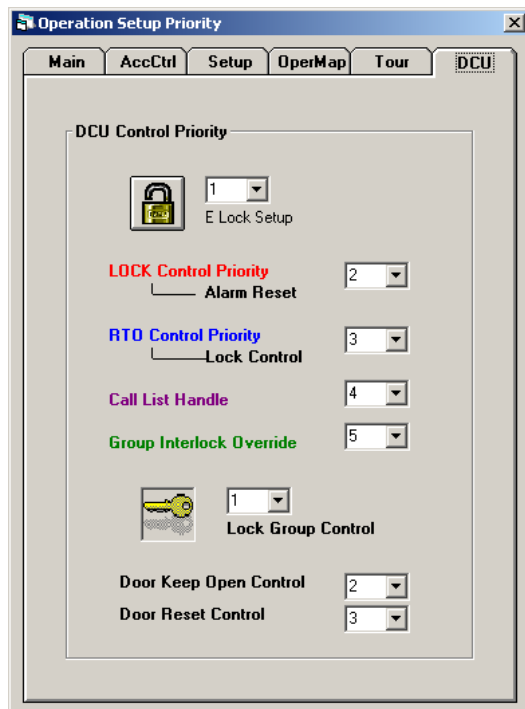
### Page 4 Operation Map:

User can use this page to edit the priority levels for operation map and output control icons. He can also use this page to edit or change the operating modes of such. Simply click the down arrow and change the level numbers.



### Page 5 Tour :

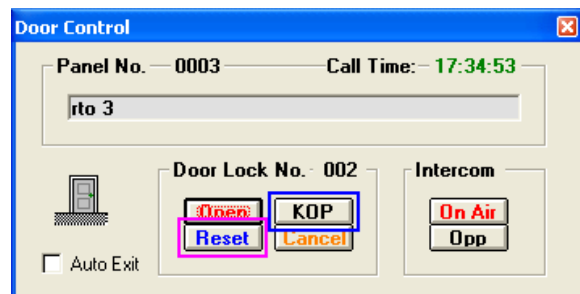
User can edit and change the priority levels for all the icons shown here(i.e. patrol tour, card reader define, card define...etc). Simply click the down arrow key and change.



### Page 6 DCU:

User can use this page to edit and change the priority levels to the DCU (DCU-1 & DCU-2) as well as the setting, programming and operating of such. Simply click the down arrow key next to the icons to do so.

- ❖ *Group Interlock Override* – suggest user to set this to the highest as Access Level = 7 to heighten the system security protection to the maximum
- ❖ *Lock Group Control* – is for the use of those who controls and operates the icons within the main menu Lock Grouping Control
- ❖ *Door Keep Open Control* – means Door Control window **Keep/ KOP** key for priority levels (as shown below)
- ❖ *Door Reset Control* – means the priority setting for Door, use the Door Control window **Reset** key to do as below:

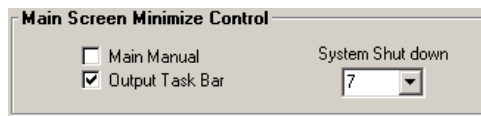


# MEGAsys – Server

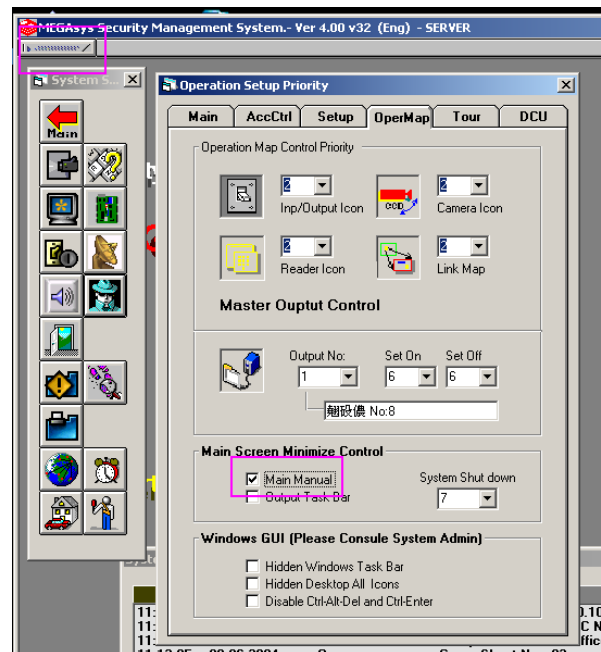
## Graphic Alarm Display System Software Programming Manual

### Appendix – 4.13: Front Graphic Operating Modes

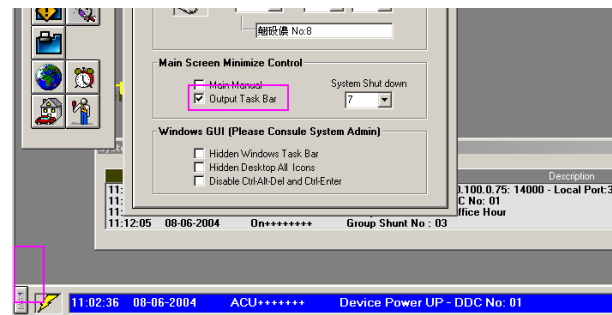
Page 4: Operating GUI



- ◆ Minimize the Icon Menu
  - Close the Main Menu



- ◆ Minimize the Output Icon Menu
  - Display the Event Interlock

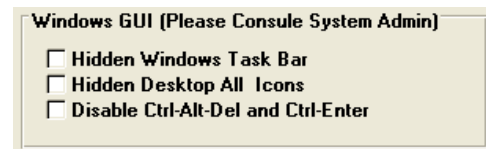


# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Appendix – 4.13: Windows GUI (Please Consult System Admin)

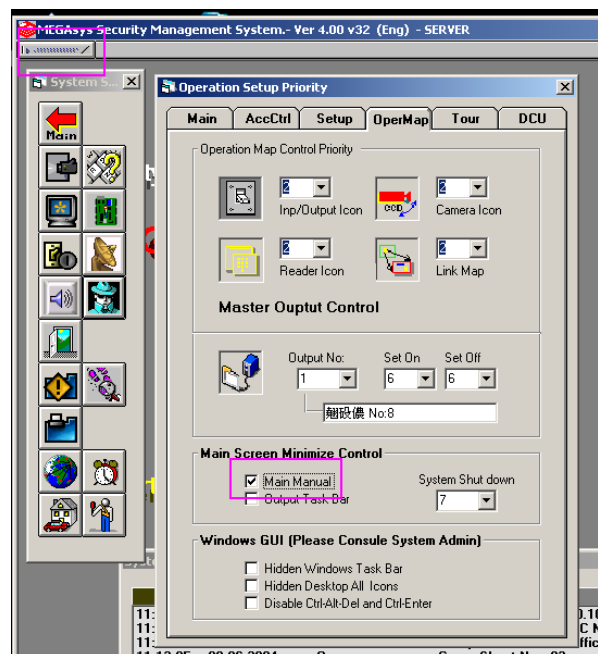
Page 4: Operating GUI – “Windows GUI (Please Consult System Admin)”:



- ◆ Hidden Window Task Bar
  - Hide the Windows Task Bar

- ◆ Hidden Desktop All Icons
  - Hide all the icons on the desktop screen

- ◆ Disable Ctrl-Alt-Del and Ctrl-Enter
  - Cancel the function of Ctrl-Alt-Del & Ctrl-Enter, MEGAsys system will not have any side-effects.



# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### 4.14 Record Parameter



After user has done all the device operating and control function settings on MEGAsys, he can use the database print function to do a complete hard copy, and use it for test and commissioning check list record.

There are 13 different system device listing, and user can select which one to be printed.

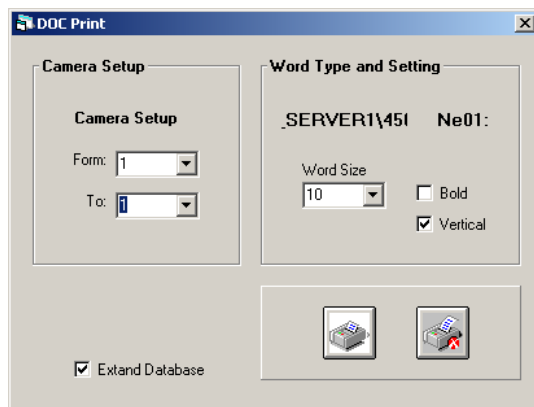


Press this icon to start print.



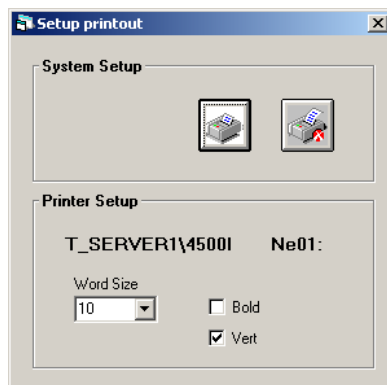
Press this icon to stop print.

#### I. Camera Setup



- ⑨ Camera  
Must first enter the camera numbers (1-640), press the down arrow key to select the numbers from and to.
- ⑨ Print set up  
Use this function to select the letter size, black bold...etc  
After print set, press to start printing.

#### II. System Setup



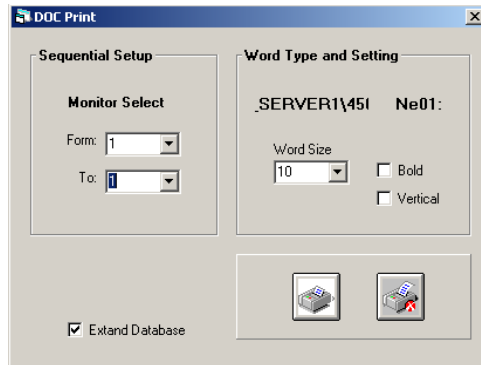
- ⑨ 列印字形設定  
Use this function to select the letter size, black bold...etc  
After print set, press to start printing.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

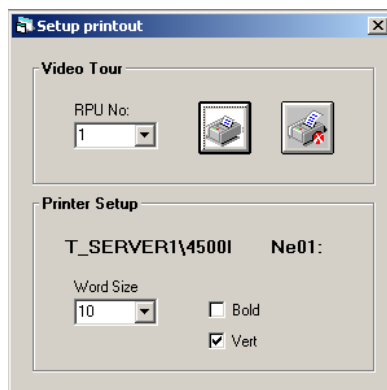
---

### III. Monitor Sequential Setup



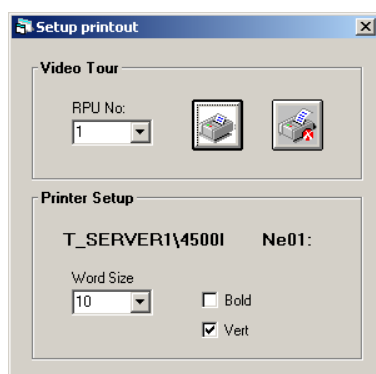
- ⑨ Video Sequential Parameters  
First, enter the number of video monitor; numbers (1-160), enter into the From & To boxes.
- ⑨ Document Print  
This is for the user to select the print format, (e.g. time, word size, bold or vertical print ...) After selection, click the print icon to start printing.

### IV. Monitor Video Tour Setup



- ⑨ Video Tour  
Video input group numbers can select from (1-99), click onto the RPU number, can then click printer icon for a hard copy print out set up.
- ⑨ Set Printout Format  
This is user –selectable: word size, bold letter , vertical print... After setup , press icon to test print.

### V. Input Point Setup



- ⑨ Input parameters  
Input all the RPU input addresses that need to have a print out, number to be selected start from 1 to 256.
- ⑨ Print setup  
This is for the user to select the print options. After selection, press to print

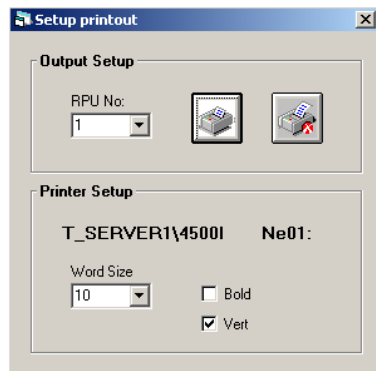


# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

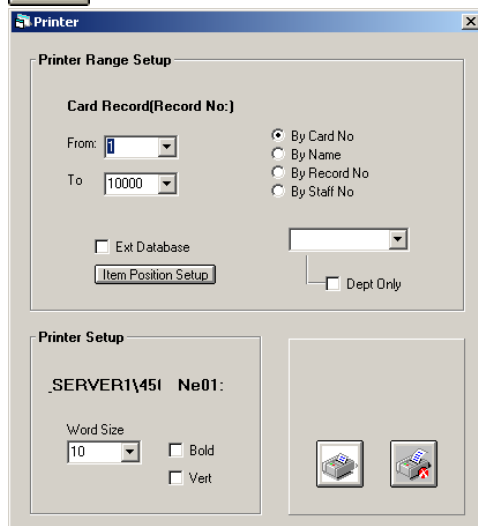
---

### VI. Output Setup



- ⑨ Output Device Parameters  
Enter all the RPU numbers that need print out, from (1-256), simply click onto the box below RPU No.
- ⑨ Print set up  
Use this function to select the letter size, black bold...etc  
After print set, press to start printing.

### VII. User card setup



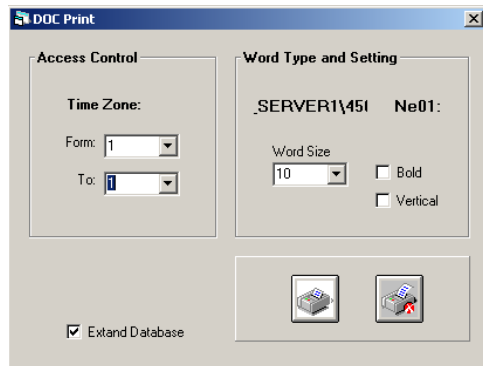
- ⑨ Select print range
  1. Enter the record numbers (1-2000), that need to be printed( i.e. not the operator card number).
  2. Select print method :
    - Display by card number category
    - Display by name category
    - Display by record card number category
    - Display by employee card number category
  3. User can click and print by the department name
    - Extended database  
System will print out all the extended info on employees. Select and click the box of Ext. Database
    - Item Position Setup  
Click into the window of Position Setup° This allow the user to set the report content positions.
      - Default – for setting each item needed print width.
- ⑨ Print setup  
This is for the user to select the print options. After selection, press to print .

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

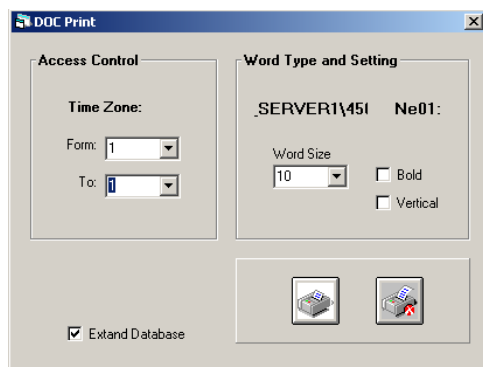
---

### VIII. Time Zone Parameter



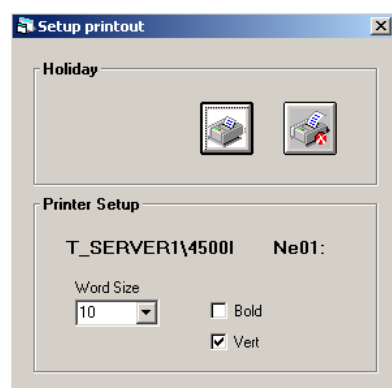
- ⑨ Time Zone Group  
Click down arrow to select the time zone number from (1-16)
- ⑨ Print Font Setting  
This is for user to set the print fonts and letter size, block letter, vertical print...etc, per the user's selection. After settings, press to start print.

### IX. Access Level Parameter



- ⑨ Fonts setting  
This is for user to set the print fonts and letter size, block letter, vertical print...etc, per the user's selection. After settings, press to start print

### X. Holiday Parameter

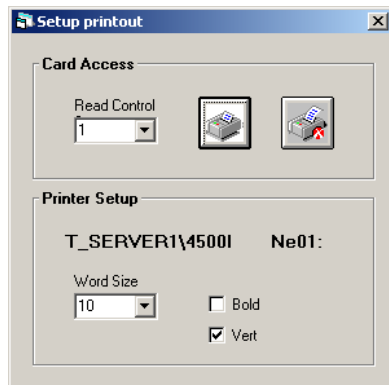


- ⑨ Fonts Setting  
This is for user to set the print fonts and letter size, block letter, vertical print...etc, per the user's selection. After settings, press to start print .

# MEGAsys – Server

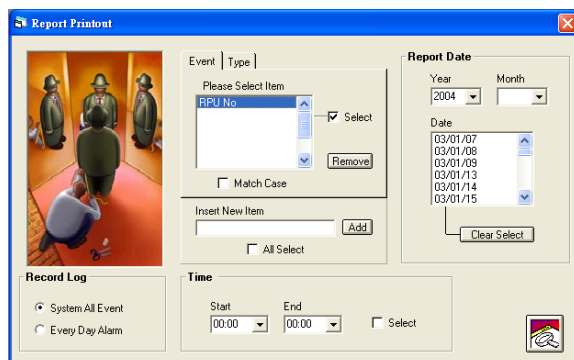
## Graphic Alarm Display System Software Programming Manual

### XI. Card Access Parameter



- ⑨ Access Control parameters  
Enter the access control numbers (1-60) that need to be printed out.
- ⑨ Fonts setting  
This is for user to set the print fonts and letter size, block letter, vertical print...etc, per the user's selection. After settings, press to start print .


### XII. Alarm Report Print

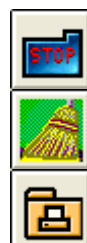
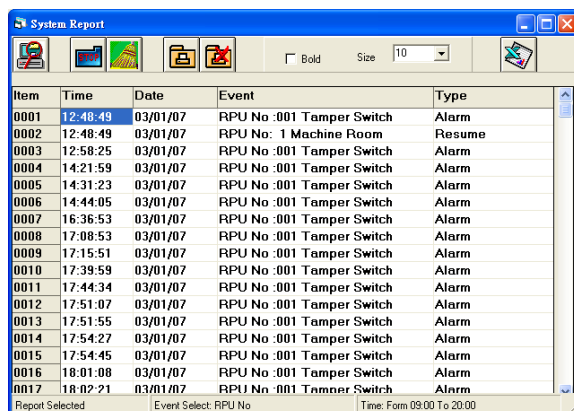


- ⑨ Alarm Status
  1. Enter the Alarim Zone number (1-2048)°
  2. Press the down arrow to select the type
  3. Press the down arrow to select the event (one or all).

- ⑨ Time Intervals  
User can either enter time here or ignore this selection.

- ⑨ Report Date Interval  
User can select a certain date of alarm or which month of

event reporting. Click onto this icon , after selection, to get the window of System Report, where the report record will be displayed continuously.



Stop Search

Clear All Records°

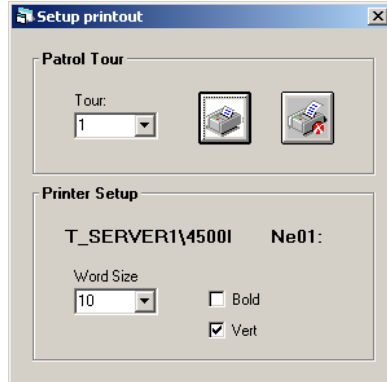
Export to printer start printing



Stop Print

Export to EXCEL Display

### XIII. Patrol Tour Parameter



- ⑨ Patrol Route Print Parameters  
Input the patrol route numbers which need to be printed.
- ⑨ Fots Setting  
This is for user to set the print fonts and letter size, block letter, vertical print...etc, per the user's slection. After settings, press to start print °

### 4.15 Event Time Control



MEGAsys system has 24 groups of time commands, user can select any of the 24 commands to set within the 24 hours period to execute such command. (i.e. security alarm, CCTV and access control).

➤ Security Alarm Management

1. Fix time patrol

If the user need to execute hourly patrol on 10 patrol groups, he can carry out 24 fix time patrol within the 24 hr period. Set up the patrol group number into the hourly schedule.(Max 24 groups per hour and 100 patrol points per group). After set up, the system will activate and record all the patrolling events.

2. Fix time secure/shunt schedule

In order to co-ordinate with the patrolling work, the user need to set the secure/shunt schedule to provide more convenience for the patrol task. During patrol, the MEGAsys system will carry out the secure/shunt commands so that to avoid any false alarm errors during the patrol

➤ CCTV system

1. Fix time CCTV surveillance

If user need to set CCTV tour every hour, he can execute a maximum of 24 video CCTV tour within the 24 hours period. On hourly basis, user must set in the video CCTV tour group numbers(max 20 groups and 64 cameras per group). The system will then execute this command task and activate the cameras on time.

2. Fix time Fast Dome PTZ camera Tour

If the user need to set PTZ camera for the CCTV tour on hourly basis, the user can do the same as above but instead of ordinary camera, use PTZ dome camera with auto pan till and zoom functions.

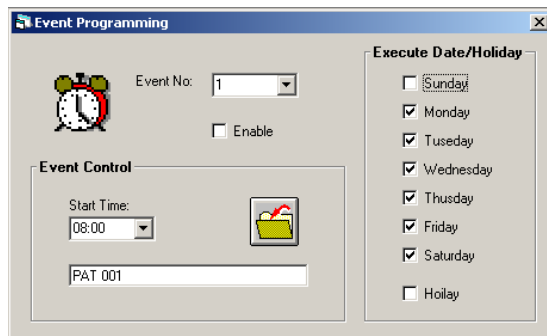
➤ Access control system

1. Fix time open access doors

If user need to assign a certain door and request opening of that door, user can execute this command on a 24 hours basis. Simply set the door open command per the time schedule, the system will open and record the task event accordingly.

2. Fix time close access doors

If user need to assign a certain door and request closing of that door, user can execute this command on a 24 hours basis. Simply set the door close command per the time schedule, the system will open and record the task event accordingly.



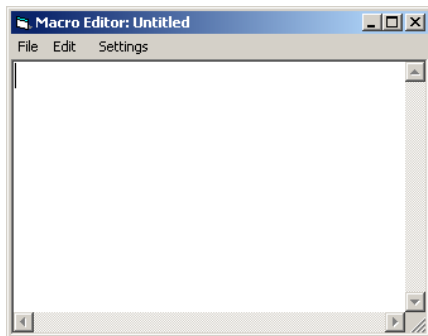
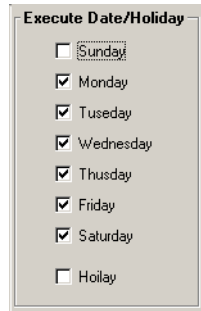
➤ Fix time execute numbers

There are 24 fix time execution number for user to set the program. Press the down arrow to select and set. Other than setting up the time and number, the user must also click onto the Enable key to let system activate this function.

➤ Execute date/holiday

When setting the first group of fix time commands, the user need to select [1] for selecting the function and then select the days of execution. Example: start time [00:00] and on [Mon, Tue....Sat].

Holiday: If there is a holiday between the Mon to Sat , user must set the program for the holiday as well. Click select the holiday.



#### ➤ Fix time execute control

##### ➤ Star time

When user is setting the group 1 for fix time execution, he must select [1] and then set the time of the execution. e.g. the group is fix time execution is [00:00] activate the patrol groups are [1, 2, 3, 4, 5, 6], User can select as per the diagram on the left

##### ➤ MACRO execution

If user need to execute the fix time MACRO commands, he need to program the alarm collector's output, access point RPU, and input the patrol group number as well as all the MACRO commands functions.

MACRO is a set of user-specific programs which allow the user to self-program a number of commands for the compute to execute. Any engineer who understand BASIC programming will know how to do it. When click onto the MACRO icon, the window will display(as shown) to allow you program (e.g. input/output combinations of devices of CCTV camera, alarm, siren, lighting, matrix...etc) for all the commands you need to open/close, activate/de-activate such devices and their related actions.

Example: [fix time command execute] :

At hour 08:00, user need to execute a fix-time command group [8]:

1. Activate patrol group [1, 2, 3, 4]
2. Activate video tour group [1], to view the video output from the cameras installed at the building's elevators.

At hour 08:00, fix time command at group 8, the system will execute the command input as below:

PAT1, PAT2, PAT3, PAT4, TOR1

At hour 09:00, user need to execute a fix-time command group [9]:

1. Activate patrol group [1, 2, 3, 4]
2. Activate video tour group [1], to view the video output from the cameras installed at the building's elevators
3. Activate the access control to open the door at Floor 1, 2, 3, 4, 5, and 6 (do not lock)

At hour 09:00, fix time command at group 9, the system will execute the command input as below::

PAT1, PAT2, PAT3, PAT4, TOR1, ULD001, ULD002,  
ULD003, ULD004, ULD005, ULD006

Another example:

As the above shown, the input/output list is easy to make mistake, because there are too many commands. If user can write out all the action commands first, and then give this set of commands a file name and number. When there is a need for execution, simply input the file (already written), the task will be much easier. The pre-programmed command file will saved into so call (MACRO) file in the system.

The user need to execute fix time command which include the following during a 24 hours day.:

1. Activate patrol group[1, 2, 3, 4], Active video tour [1], to monitor the installed CCTV cameras installed.

MAC001 MACRO commands as below:-

Macro Name

**MAC 001**

**PAT 001,**      Activate Patrol [1]  
**PAT 002,**      Activate Patrol [2]  
**PAT 003,**      Activate Patrol [3]  
**PAT 004,**      Activate Patrol [4]  
**TOR001,**      Activate Video Tour [1]  
**END (all commands must end with END)**

❖ Please insert this fix time MACRO into



Common fix time MACRO commands

| <u>COM</u> | <u>Control file No.</u> | <u>Details</u>         | <u>COM</u> | <u>Control file No.</u> | <u>Details</u>            |
|------------|-------------------------|------------------------|------------|-------------------------|---------------------------|
| ACU        | (XXXX)                  | Decoder number         | OUT        | (XXX)                   | Decoder output number     |
| POS        | (00-09)                 | PTZ decoder number     | RLY        | (1-6)                   | PTZ relay output number   |
| SHT        | (XXX) (XX)              | Stop decoder input     | SHZ        | (XXXX)                  | Stop system input number  |
| TOR        | (XXXX)                  | CCTV Video tour (XXXX) | MSG        | (message file )         | Manage alarm log          |
| LKD        | (XX) door               | Lock this door         | PAT        | (XXX) Patrol No.        | Activate patrol function  |
| ULD        | (XX) door               | Do not lock this door  | BMS        | (XXXX) Output No.       | Output code to BMS system |

## 4.16 Patrol Tour



MEGAsys system provides a patrol tour function, to allow the security guards to go on a fixed route , fixed time at the fixed patrol check points...etc. After arriving the patrol check point, the duty patrol guard must present the on/off key, to check-in and report the time of arrival at this check point. To protect the security guard, the patrol system will continuously monitor the patrol route, time from point to point, and to report any late arrival by issuing an alarm signal. There are total of 24 groups of patrols, each has 100 patrol check points. User can set any time to start the patrol tour, and the system will at that same time activate all the 24 x 100 check points, issuing alarm signal for any early or late arrival to these points.

### I. Patrol Route Setup



| Item | Station | Time | Interval |
|------|---------|------|----------|
| 001  | 000 04  | 0004 | 00:02 01 |
| 002  | Door :- | 0004 | 00:00 00 |
| 003  | 000 16  | 0000 | 00:00 00 |
| 004  | Cam :-  | 0004 | 00:00 00 |
| 005  | 000 16  | 0000 | 00:00 00 |
| 006  | 000 16  | 0000 | 00:00 00 |
| 007  | 000 16  | 0000 | 00:00 00 |
| 008  | 000 16  | 0000 | 00:00 00 |
| 009  | 000 16  | 0000 | 00:00 00 |
| 010  | 000 16  | 0000 | 00:00 00 |

- Route No.  
User can click on the group with the mouse to set up routes by setting from the 24 groups
- Patrol Route List:
  - ✓ Item number  
For setting up the 24 groups of patrol, number of checkpoint stations [001-100]. User must follow the item number and set each one point by point, providing the system with the relative addresses of each RPU , input point and system ; as well as the time tolerance for early or late arrival to check station.
  - ✓ Addresses for RPU, input point, and system  
Within every patrol group user can set up 100 check station address [001-100], user must tell the system the address of such stations, link up with which alarm RPU [000-256], which input points [01-16] and into which system [0001-4096].
  - ✓ Points  
Point number can be selected from 0-2048. To select, the user must first click onto the item number until it turn blue, and then select patrol points from “Points” by pressing the down arrow, and then set up the other (card reader, CCTV).
    - Patrol points  
If user picks ordinary key as a patrol point type, user must first select Points then the point number and then enter to indicate using Key as a means to for patrol acknowledgement
    - Card reader  
If user selected the point to use card to do acknowledgement, then click to select card reader, then enter the number and enter as the word “Door” appears.
    - CCTV  
If selected CCTV type, means will use Patrol Tour function, look for the designated camera numbers within the Tour group. User will see “entry point” with Cam , with means the patrol station will execute TOUR group number.
  - ✓ Arrival time  
User click onto the item number, set up the patrol station say number [001], must also set the arrival time.



Attention must be put on the normal setting time, i.e. with hour and minute entered together (e.g.: 15:30). Limitation is this is the time only when the guard can carry out patrol tour

Within this system, the user must utilize the time concept for some adjustment. User must enter the arrival time enter with minutes, e.g. it takes 3 minutes to travel to that point number 001, then the arrival time should be 00:03. User must enter into the [event time control] enter the start time to start executing the that patrol group's patrol tour. User can change this time later as long as it refers to the same route. Several times per day patrolling is allowed with the proper entry of the start time.

- ✓ Delta time  
This refers to the maximum of time being late (or early) for the patrol guard to arrive at that patrol point to carry out card swiping or key insertion. Within this time interval the alarm will not be triggered, example: when the guard leaves from rest to the first point needs 5 minutes, the user should use 5 minutes, entering [5] instead. And if the delta time is +/-8minutes, the start time if it is 09:30, the guard can arrive at this point within 09:28-09:38 time range in order not to trigger the alarm.
- ✓ Patrol station  
This item number is for describing the location of the patrol point.
- Alarm interlock voice broadcast  
User can also enter voice broadcast, by clicking onto the magnifier glass icon, but the Macro command must first be set up properly before can do the setting here.
- ❖ *Pleas refer to Chapter 10 section i for more info about this topic.*

# MEGAsys – Server

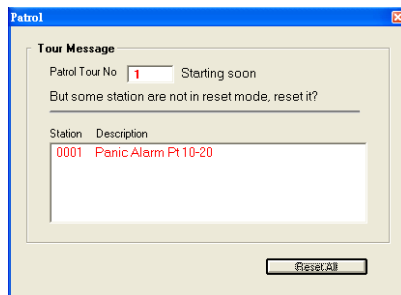
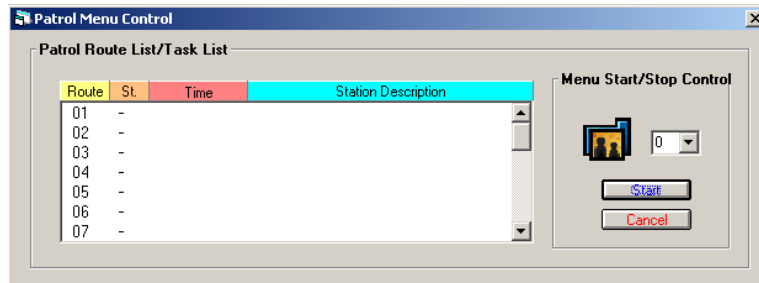
## Graphic Alarm Display System Software Programming Manual

### II. Patrol Control Status



This is a manual operated patrol system, no need to go by the time, and can be executed at any time.

- Manual patrol tour number  
User can click down arrow of each item and set the patrol group number.

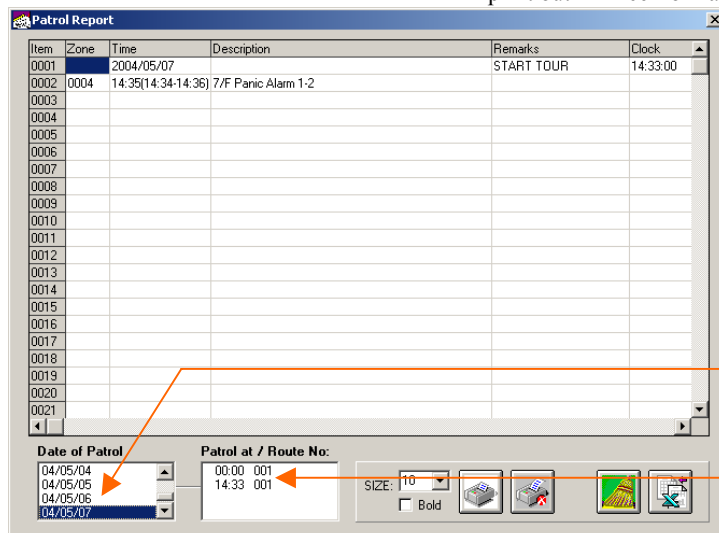


- Start Patrol – press this key for all the selected routes to turn into blue color. Count down will start, and when finish, next to the patrol routes, will display a patrol finish point number (with start/end time and with descriptions).
- Cancel patrol – press this key will cancel all the pre-set patrol commands.
- ❖ When patrol starts, the system will poll every check point on the patrol route, if there is any abnormal activities (may be alarm in progress) the system will issue a request for that check point to be reset.
- ❖ Example : Patrol tour check point station 0001  
Detail: Patrol #012 Stairway 01, point 12, location at stair 01. There may be over-time alarm, exceed time alarm...etc, which needs to be reset before patrol resume.

### III. Patrol Report



This report is to list out certain date and time patrol events. User can select the time, date and the route number for a hard copy report, or can select to print out in Excel format.



# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

- ❖ User can export this patrol info to the Excel file, and by click the Microsoft Excel electronic file link, this will automatically send the file to Excel and be stored in this format. This allow user to check the file when MEGAsys system is not being turned on.
- ❖ Please refer Chapter 10 section iii on the MEVGAsys system software Quick Start Manual for more of this topic.



|    | A | B                  | C                   | D          | E        |
|----|---|--------------------|---------------------|------------|----------|
| 1  |   | 2004-05-07         |                     | START TOUR | 14:33:00 |
| 2  | 4 | 14:35(14:34-14:36) | 7/F Panic Alarm 1-2 |            |          |
| 3  |   |                    |                     |            |          |
| 4  |   |                    |                     |            |          |
| 5  |   |                    |                     |            |          |
| 6  |   |                    |                     |            |          |
| 7  |   |                    |                     |            |          |
| 8  |   |                    |                     |            |          |
| 9  |   |                    |                     |            |          |
| 10 |   |                    |                     |            |          |
| 11 |   |                    |                     |            |          |
| 12 |   |                    |                     |            |          |

# MEGAsys – Server

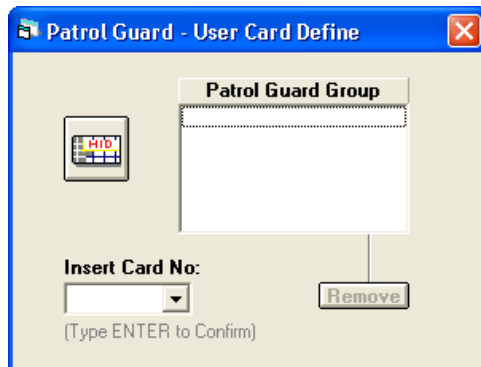
## Graphic Alarm Display System Software Programming Manual

### IV. Patrol Cad Define



This function helps user to reduce card use. Instead of carrying several cards, the patrol security guard or management staff can choose to select only one card. This must be first set up, so that one card can get access into many doors/areas.

Example: user must select which card to be read and at the same time carryout patrolling work. Press ENTER on Patrol Guard Group box will show the card number selected. Card holder can use his own card to execute patrolling acknowledge, as well as to enter into the time zone that he is allowed to access.

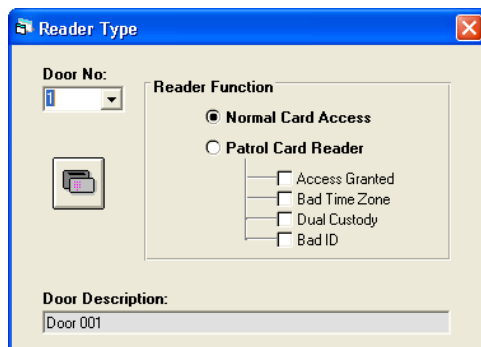


- Insert Card No. – click the down arrow, user can see all the card numbers being used by the system, click on the selected number until it turn blue, and click ENTER to get into the Patrol Guard Group box.
- Patrol Guard Group –this show which cards are being used as patrol cards, click onto the card number and then click Remove key, the card is being cancelled for patrol work.
- ❖ *For more details, please refer to Chapter 10 Section IV of the MEGAsysQuick start Manual Ver.2.3 (For MEGAsys Ver.3.xx).*

### V. Patrol Reader Setup



This function is to allow the same reader machine to provide employee and patrol guard usage at same time. Get into the Reader Type Window to select new function for (i) Normal Card Access and (ii) Patrol Card Reader. When (i) Normal Card Access selected, the patrol card cannot be read by this machine at anytime. When (ii) Patrol Card Reader being selected, other than for the patrol guard to execute work, the other employees can also use this for entry/exit during normal working hours.

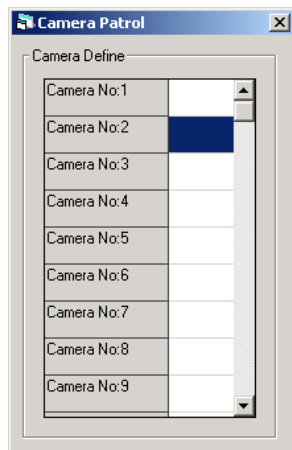


- Door No. – Select (1-60) is the door number where the card reader is installed at.
- Reader Function
  - ✓ Normal Card Access – this means employees can use their cards for entry/exit of this door zone, but the patrol guard cannot at any time to use this reader for patrolling work .
  - ✓ Patrol Card Reader – this function is to set this reader to allow both the employees to entry/exit during normal working hours and also for patrol guards to carry out the patrol functions (as the 4 listed below)
    - Access Granted – patrolling during normal work hours, will not trigger alarm.
    - Bad Time Zone – patrolling during after work hours, will not trigger alarm.
    - Dual Custody – patrol guard must carry two patrol cards, each carried by the same or two different guard(s) . When both cards are being read, then the system will not generate alarm signal.
    - Bad ID – means that the card holder cannot use this reader to enter and exit this door zone , but if used for patrolling, it will not trigger alarm. System will record down the card reading time for patrol usage.

- ✓ Door Description – simple words to describe this door.°
- ❖ *For more details, please refer to Chapter 10 Section V of the MEGAsysQuick start Manual Ver.2.3 (For MEGAsys Ver.3.xx)*

|               | Patrol Card  | Normal Access Card  |
|---------------|--|---|
| Normal Reader | Patrol Card cannot be read by this reader.°  | Normal Access Card can be read normally and enter / exit this door zone   |
| Patrol Reader | Patrol Card can be read by this reader, but must be first set at [Patrol tour] & [Patrol card define] within the system. | Normal Access Card can be read normally<br>Because this Patrol Reader has two functions:<br>1. Patrol work<br>2. Normal card reading work |

## VI. Camera Patrol Setup



## 4.17 Intercom Control



- Rec No – Intercom address (1-2048) °
- Description – Intercom address number
- Default Audio Matrix Switching – setup this Intercom address for pre-set MACRO inputs (IN) output (OUT). Input ports [1to 512] output ports [1to160]
- Default Macro – when user click onto the icon of Intercom, system will activate the pre-set Macro command: ALA 1, to issue alarm signal.
- Call Macro – click onto [Call] icon on the Intercom Control Panel: Macro command MAC002 will be activated, and same time opening the Call Macro: send the video signals from DVR# 1 (at IP address 210.17.176.148) and DV R#3 (at address 210.17.176.148) and display them on the user's operating computer.

The file content of MAC002 is as below:  
MAC002:

```
DVR{210.17.176.148~1}
DVR{210.17.176.148~3}
```

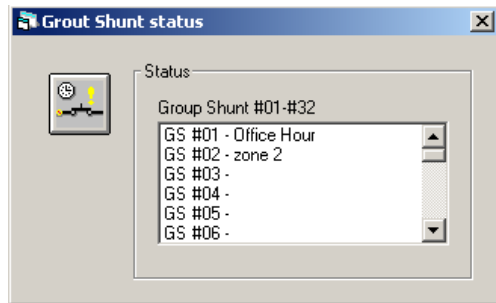
END

- Talk Macro – click onto the icon of Talk Control of the Intercom Control Panel, then click ON key, the system will execute the Macro command, press onto the OFF key, system will stop this command. Example: DVR{210.17.176.148~3}, click #1 Talk Control's ON key, system will execute Talk Macro
- ❖ *Every line of MACRO (Default Macro, Call Macro& Talk Macro) can have a max of 40 alphanumeric letters for conten twriting of the Marco and for describing the files.*

## Chapter 5 Auto Secure/Shunt Group setup



This time group is in the main menu of MEGAsys, with total of 5 time control groups; each with different time group representing different secure/shunt functions. When the user is setting the alarm inputs, he need to base on the alarm system's secure/shunt requirements to set the time schedule for the 1-5 control zones. The user cannot anyhow change the content of the time group, but can only select to use that time group.



To set this 5 auto secure/shunt time groups, user need to follow the steps below:

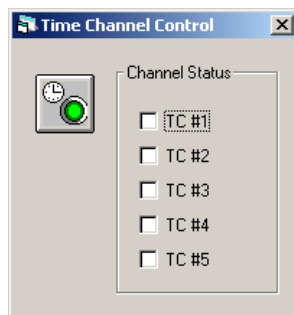
- ❖ *For time group settings, please refer Chapter 4 section 3.2 of this manual.*

Example: within the department store, the magnetic doors need to be activated at 8:00pm (set as secure mode) and deactivated at 9:00am (set as shunt mode). The first shunting time 09:00 - 20:00). But within this same group, the indoor dual technology (micro wave & infra red) sensors need to be at shunt mode at 8:00am to allow the cleaning team to carry out their work. (Group 2 shunting time 08:00 - 20:00. For the purpose of avoiding the alarm error as a result, the user must check the clock of system computer to see if the time is correct before setting the shunting time control.

## Chapter 6 Time Channel Control



This function is within the main menu of MEGAsys system. There are total of 5 set soft Time Control, each representing different device auto start/stop controls. When user is setting the time for the output time, he must follow the start and stop time to program these 1-5 control zones. User cannot anyhow change the time zone content, but can only select the usage of such time groups.



To set the 5 groups of auto output time groups, user need to enter the [Time Channel Control] within the [Output parameters editing] for the proper setup of these 5 groups.

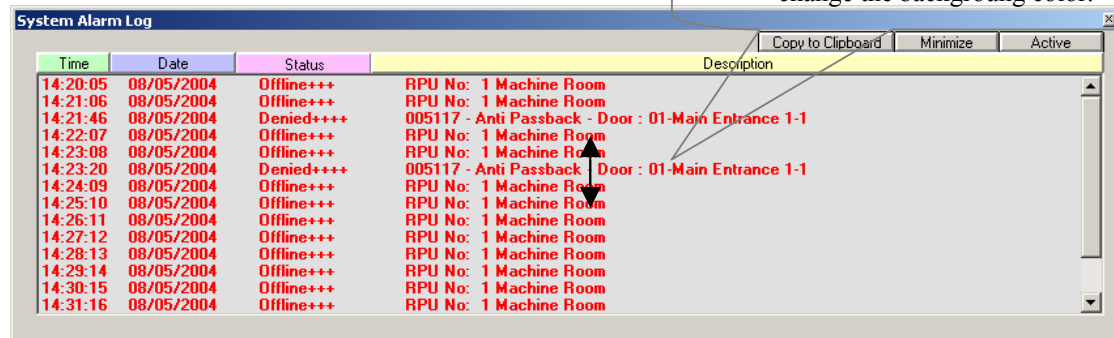
- ❖ *Please refer to Chapter 4 section 4.2 for time programming and editing.*

Example: the alarm system within a department store, need lighting to be turned on at 8:00pm and turned off at 6:00am. The 1<sup>st</sup> group is set at 20:00 - 06:00. But within the same group, the indoor display cases need lighting to be turned on at 6:00pm and be turned off at 8:00pm. So, the 2<sup>nd</sup> group need to be set at 18:00 - 20:00. In order to avoid any time conflict and thus causing errors in alarm, the user must utilize Shunting Time control. And user must check and make the system clock in-tune with the other device clocks.

## Chapter 7 System Alarm Log



Click onto the [System Alarm Log], the window will appear to display the entire system status. This (as shown here) is a detail report of all the events that happened with the time, date, status, and the description of the events that happened.



The user can choose to display this log in large or smaller window.

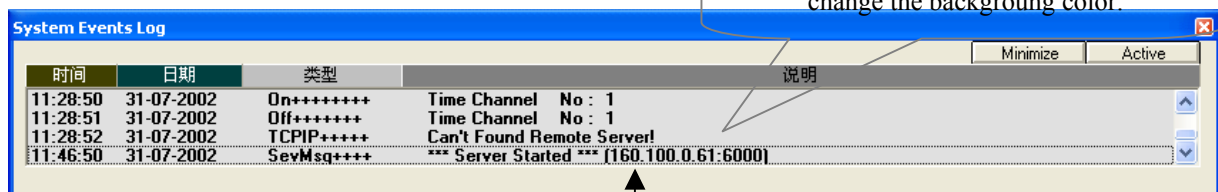
- Clear – this is to clear the alarm event record / content. Steps: click the mouse onto the selected log event, and then press **Clear** key, Selected event data will be cleared,
- Minimize – to make the window smaller.
- Active – this represents to continue display the log data. Press Active key, it will turn into Passive. Passive means temporary stop displaying the security event data.
- ❖ Right click of the mouse, will select to print out the alarm log into a hard copy for filing.
- ❖ To change the MEGASYS.ini file settings, can use the Queue control number and select whether to save some of the files. Please refer to Chapter 19 of this manual Appendix F for more details on changing MEGASYS.ini file settings.

## Chapter 8 System Events Log



Press the [System Events Log] key, a window (shown here) will appear.

This log contains all the access door events which happened within this system, showing: time, date, type, and description of events.



This event log window can make larger or smaller by the user at his choice.

- Clear – this is to clear the alarm event record / content. Steps: click the mouse onto the selected log event, and then press **Clear** key, Selected event data will be cleared,
- Minimize – to make the window smaller.
- Active – this represents to continue display the log data. Press Active key, it will turn into Passive. Passive means temporary stop displaying the security event data.
- ❖ Right click of the mouse, will select to print out the alarm log into a hard copy for filing.
- ❖ To change the MEGASYS.ini file settings, can use the Queue control number and select whether to save some of the files. Please refer to Chapter 19 of this manual Appendix F for more details on changing MEGASYS.ini file settings.



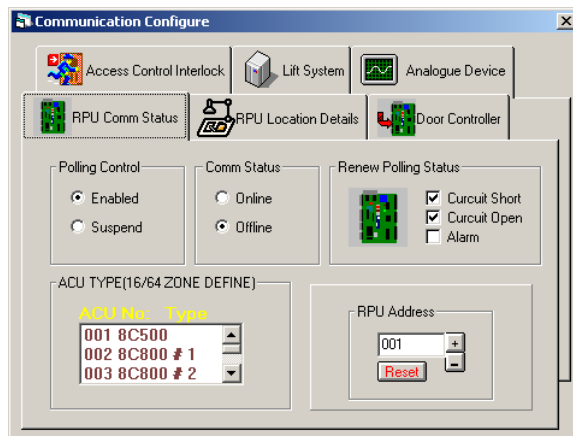
### Chapter 9 Communication Configure



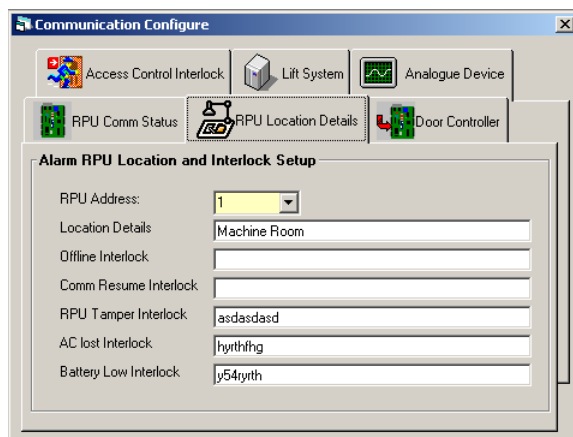
On the main menu, press down the Communication Status icon, a window will show the status of system connected with the peripheral devices.

This window has 6 pages, they are: Access Control Interlock, Lift System, Analogue Device, RPU Comm Status, RPU Location Details, Door Controller. This function is different from the [Communication Configure]. This function (settings listed in page 3 & 4 are which cannot be changed)

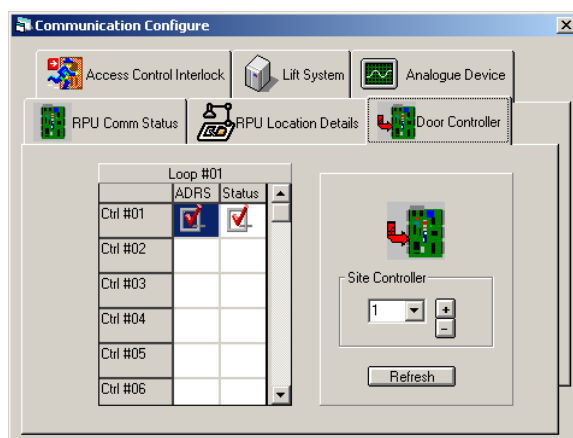
- ◆ If system has been setup to use **ET-8C500/ ET-8C800** RPU device, this window will display the below 5 pages



Page 1 RPU Comm Status



Page 2 RPU Location Details



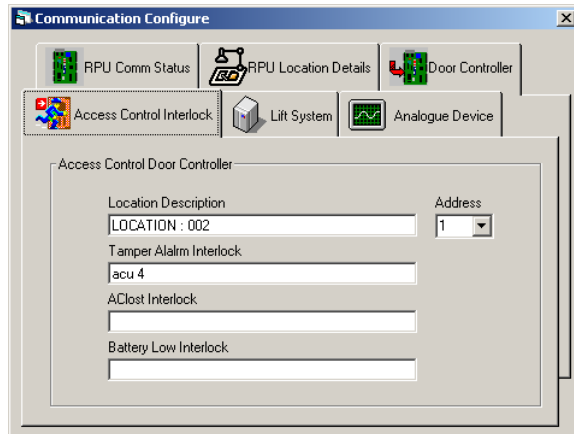
Page 3 Door Controller

Utilize (linked to) DDC 9000 Double Door Access Controller and ET-121 Site Controller®

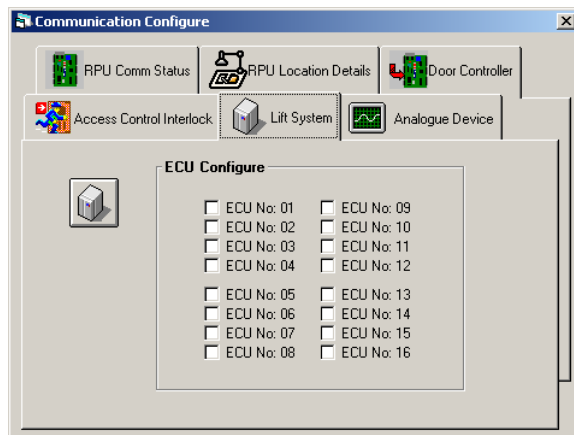
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

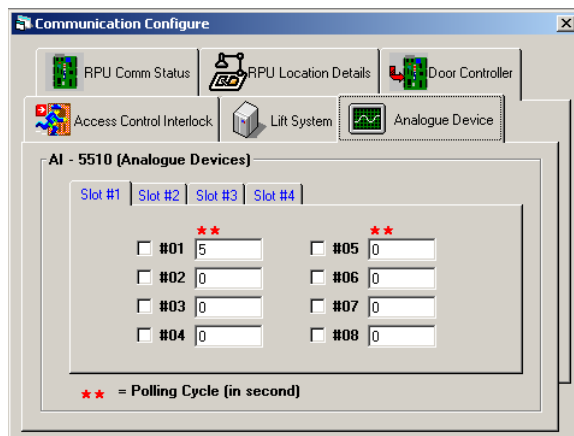
---



Page 4 Access Control Interlock



Page 5 ECU Electric Door Controller Unit



Page 6 Analogue Device

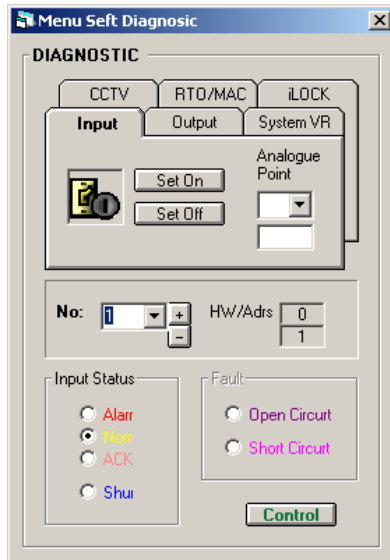
- ❖ The page 3 & 4 is slightly different from the Chapter 4 4.10 section. The main difference is user cannot change the settings in the Chapter 10 communication status, but can only display the locations of the collectors and the controllers. Please refer to Chapter 4 section 4.10 for any changes.

## Chapter 10 Manual set diagnostic

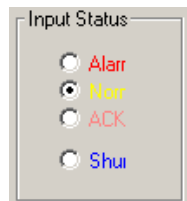
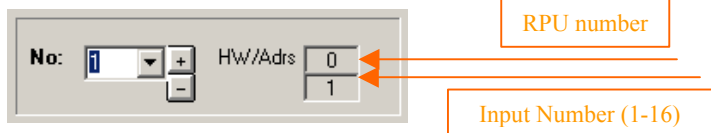


System can execute self diagnostic routine on input/output points, CCTV · RTO & iLock... and can also display the testing status at the same time. The purpose of this test is to try out the Macro commands' interlock reactions within the system.

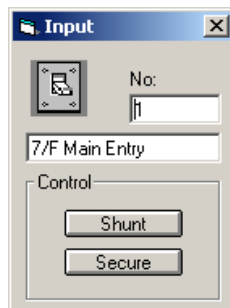
### Page 1 Device input:



- ⑨ Alarm test – when a certain location is normal status, user can test it by pressing **alarm test** key, this will change the status to alarm e.g. like magnetic door being opened.
- ⑨ Alarm reset – when a certain location is under alarm status, the user can press the **Alarm Reset** to return it to normal status e.g. magnetic door has been closed.
- ⑨ Address – before the sets, first enter the test point hardware addresses, and then input the test points physical locations (1-2048). After address selected, the system will show the location of the relative hardware.



- ⑨ Input Status – display the status of the testing points. User cannot do any control here. The color display here is equal to the color on the map.
  - ★ Alarm – means that it is in alarm status within the system, all the interlock Marcos are being activated
  - ★ Normal – means it is in a normal status, within the system, and can accept alarm inputs.
  - ★ Acknowledge – means this point has been acknowledged after the alarm.
  - ★ Shunt – means this point has entered into a access /shunt condition, when alarm happens, it would not issue alarm action.
- ⑨ Fault – display shows that this test point has encounter abnormal status, user cannot execute any control on this point. The color is the same as the color in the map above.
  - ★ Open circuit – alarm input is under open fault
  - ★ Short circuit – alarm input is under short circuit fault

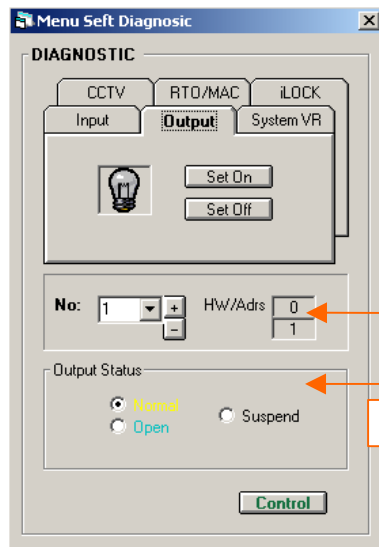


- ⑨ Control – When user select this test point, press the key, it will show a input control window , user can execute control function.
  - ★ (SHUNT) – when user press this button, will see the input status within box change,. System will change the point's normal condition into shunt, means that auto alarm function is being shut off.
  - ★ (SECURE) – when user press this key, will see the status change from shunt back to normal condition, and can now accept any alarm inputs.

❖ User can use the in/output for simulated testing..

- ❖ On Ver.2.3 0version of this part, if user need to test the in/output points, such points must first exist withn the MEGAsys system.
- ❖ For version ver.3.00 or above, there is already upgraded, there is no need to do settings within the system. MRGAsys already has preset testing procedures, and the system will inform the user automatically.

### Page 2 : Output status



Direct open/close certain output test points

- ⑨ open/on
- ⑨ close/off

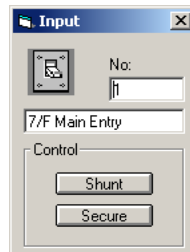
- ⑨ Address – before doing the testing, input the test point address (1-2048) , the system will then display the relative hardware address

RPU address

Output address (1-16)

Output point status – to display the status, user need not execute any control at this point. The status color is same as the test points on the map

- ★ Normal – means this point is in ready mode to receive any alarm input.
- ★ On – means this point is set On
- ★ Off – means this point is set Off (e.g. stop use or stop output...)



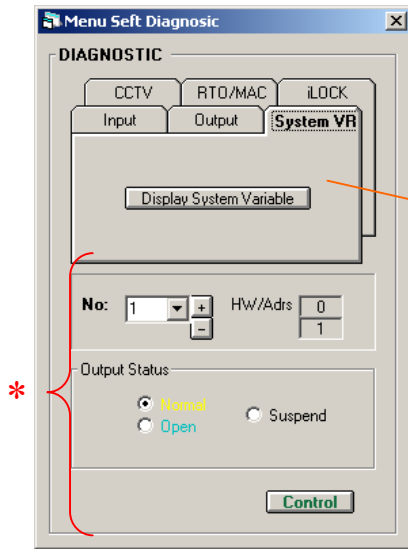
Control – when this point is selected as test point, click this key, window will display a control window, to allow user for input control.

- ★ On – when user click onto this key, will see output point status being changed. System will change the point from normal status to Open/on status
- ★ Off
- ★ Open
- ★ Temp Close – when user press this, will see the output status will change from normal/open status to temporary close status, meaning the output has been stopped.

# MEGAsys – Server

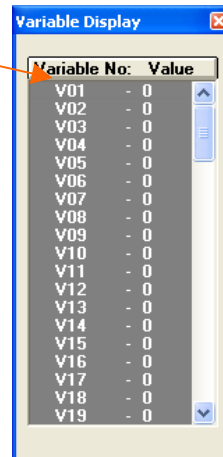
## Graphic Alarm Display System Software Programming Manual

### Page 3: System Variables



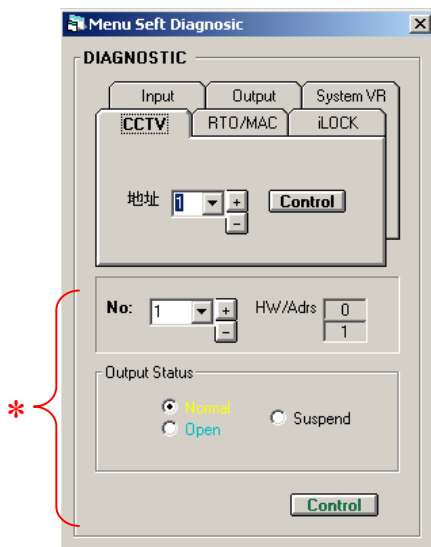
Display System Variable window when displayed, will show the status the Macro command variables status.

Please refer to the Macro command writing, applications & control at MACRO Menu Ver.1.0 (For MEGAsys Ver.3.xx)°

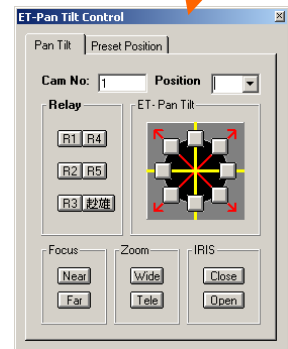


② On page 3, portions marked with “\*” system is not in-use.

### Page 4 CCTV:



⑨ Address – user can select from 1-256 for the camera address. which will allow user to have direct control on the cameras. First select the address and press the **Control** key, a video camera number and a control panel will be displayed for control purpose.

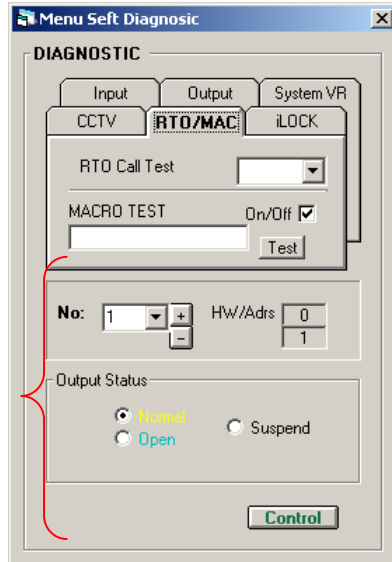


# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

Page 5 RTO/MAC:

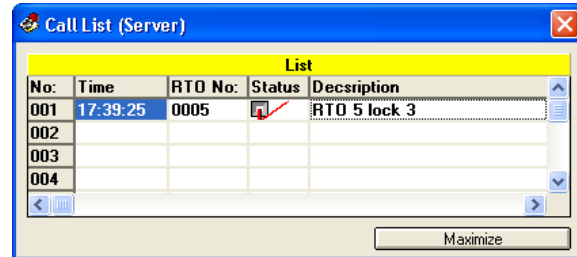
### I. RTO Tester



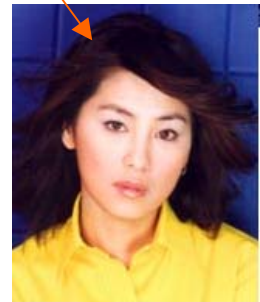
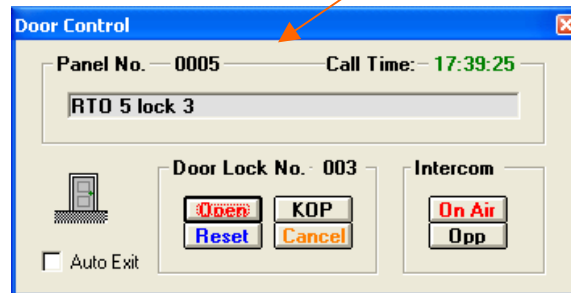
This is for the self-diagnostic for the RTO panel testing. System's virtual visitor can press the RTO screen control, test the software and the hardware functions.

RTO No. – enter RTO number (1 to 512)

After enter RTO number Call List (Server) window will appear with a “Beep” sound.



All List (Server) window display the select RTO number, double left click on RTO number, Call List (Server) window will disappear, replaced by a Door Control window and the related video signal



- ❖ User can use the Door Control Panel to control the door open/close or use it to talk with the visitor through the RTO Panel.
- ❖ “\*” is the portion not yet ready for use.

### II. MAC Tester

This is the MACRO (MAC) Tester, for the user to do testing on the Macro commands.(Examples: input points, output points, cameras numbers)

- Macro Test – input Macro commands from here
- On/Off – click net to the On/Off, check mark will light up
- Test – click this , the system will help user to enter the Macro commands

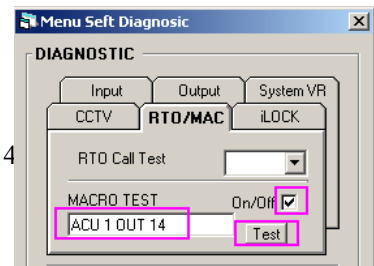
Test example:

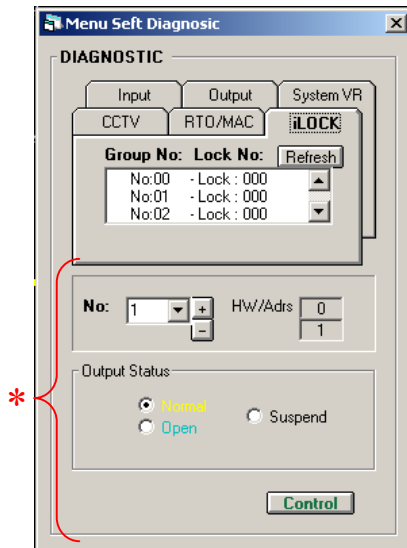
Before test, user need to add the control output points on the map, and then use it for self-diagnostics tests.

Output control point data: output address - #14,

Testing steps:

1. Add output control points onto the map
2. Click down the Diagnostic icon, and enter into page 5 RTO/ MAC
3. Enter into the box of Macro Test, Macro commands ACU 1 OUT 14
4. Click on to the box next to On/Off
5. Finally, click the **Test** key for testing, user can see the map show Output point #14 icon light up in red and flashing





Interlock Groupself-diagnostic function to be used on MEGAsys Server – for observation and display of all the (Interlock Groups) operation status , but cannot use it to do testing.

Example: System already set up electric locks #1 & #2 as Interlock Group #5, operator can do the alarm test on the MEGAsys Server for <iLOCK>, check the working status of all the Groups,. If Group #5 Lock #1 is opened, user must wait until #1lock is shut before doing the test.

Refresh – Manual refresh the data at Interlock Group

*After pressing the key of Refresh, if still see the data of Interlock Group not matching, e.g. #1 lock is close, after Refresh, next to Group #5 still show Lock 001. User can double click on the Group 05 Lock No.: 001, to refresh the data at Interlock Group. The number next to Group 05, Lock number will be refreshed and correct back to Lock No. 000.*

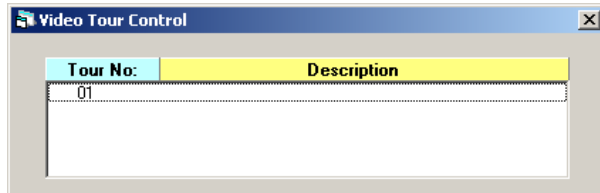


### Chapter 11 Video Tour Control



This video function is at **MDVR** system main menu. There are total of 99 (1-99) video tour numbers for the user to select and use for this purpose

When user press down onto a certain video tour group number, system will display the video of the selected camera. But user cannot change the content of each of time group, he can only select to use of that time group.



❖ *To set this 99 video tour group number, user must enter into the video tour section of the video monitor setup*

❖ *Please refer to Chapter 4 section2.2 for the edit of time groups.*

## Chapter 12 Monitor Control

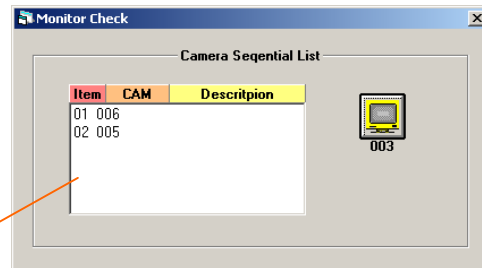


The system can execute any auto or manual of monitor control, by press down the function list – video monitor control icon. “monitor select ” window will appear, showing selection of 1-16 numbers. User need to press down the + sign , monitor number will change to 17-32, (every time press, the number will increase 16 numbers) until user can find the needed monitor, (max monitors to be supported is 160 units).

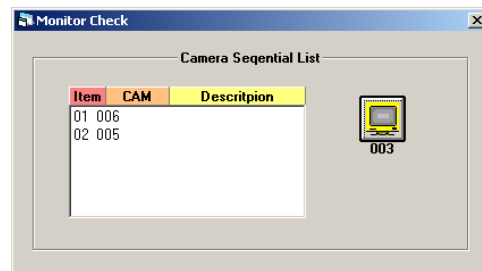


| Item | CAM | Description |
|------|-----|-------------|
| 01   | 006 |             |
| 02   | 005 |             |

- Yellow frame monitor means the monitor is in the process of being switched, user can left click the mouse to stop the switching job.



- White (without yellow) frame monitor means that the self-switching has been stopped. User can left click on the monitor to restart its switching work.



If the user right click on the monitor, the system will display the self-switching window 002 to 005, 001, 002 & 004...etc.



When **SW** turn to red color, system has already program its self –switching task. When **SW** key press down to become white color, all the monitor stops switching.

**选择**

Means to select a certain monitor to become the system monitor, i.e. becoming the front screen operating camera, and all will be switched to this designated monitor. And the

selected monitor number will be displayed on the bottom position of the screen.

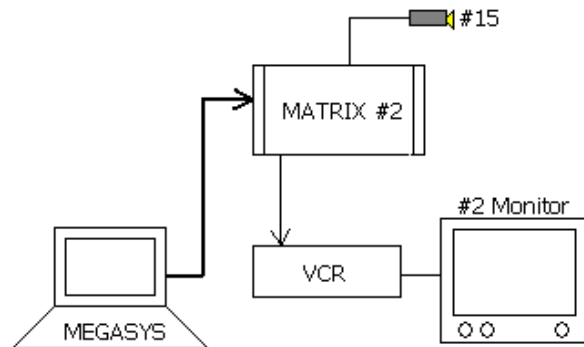


Example: take all the 16 monitor units and switch them to become the system monitor. First, click the monitor control icon, left click on 016monitor with the mouse, to turn the white frame monitor to yellow color. This stops the current work of the monitor, and then press **Select** key, to see the monitor number at the bottom of the screen. Now, the operating camera video will be switched to be displayed on the monitor.

*If user need to switch a certain number of cameras to be shown on the designated monitor to display, this are the steps to do it.*

When system encounter alarm from a certain alarm points, the user will see the alarm points turned into red color, flashing. User will also find the designated monitor also turn into red color, meaning that it is executing the alarm task.

When system encounter alarm signal from certain alarm points, or from other emergency signal, system will execute the alarm output MACRO commands, e.g. the content of the alarm Macro commands are as shown: (MON 002 CAM 015/ A (as Figure 4.12.1).

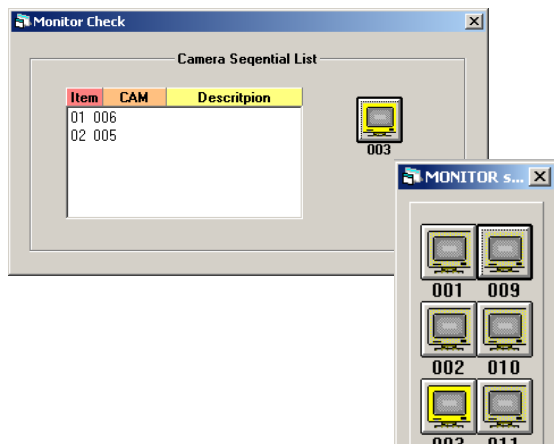


<Figure 4.12.1>



On the **MDVR** system, the monitor #2 will turn red, and the camera #15 will shoot and record the video image, transmit the video to monitor #2 for display and recording.

Left click the icon of #2 monitor, window of – Alarm Monitor will display the current (real time) video of alarm in progress. Until duty operator press down the **Reset** key, the #2 monitor will return to the previous task it was executing



After reset of the #2 monitor, the user will see the color of #2monitor turn back from red to yellow. When this window is being clicked on, the next window, Monitor Check, will appear to display the work status prior to the alarm signal.

*Please refer to MACRO Manual 1.0 (For MEGAsys Ver.3.xx)for more of the manual diagnostics procedures. °*





### Chapter 13 DVR Control



One of the MEGAsys system software functions is for the control of the DVR, which the user can use the function to record and playback the 4 channels of the CCTV cameras..

Introduction of features:

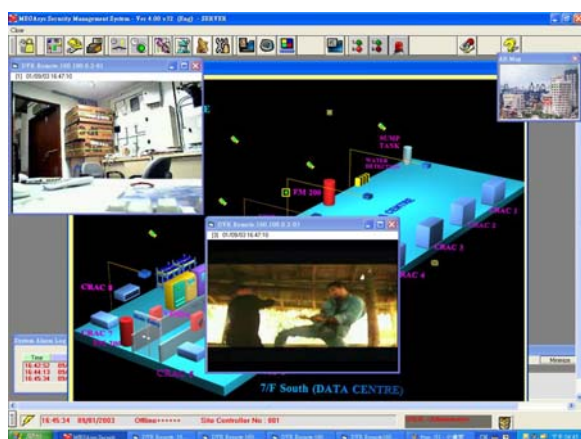
DVR control icon button is located at the main manual, once pressed, will appear with the 4 sub-functions as below:-

1.  DVR display window exchange – for exchanging an already opened (small size) video window with any of the new video displays.
2.  DVR smallest video display – for shrinking the opened display to the smallest size(maximum 4 channels).
3.  DVR largest video display – for opening and enlarging the opened display to the largest size (maximum channels).
4.  DVR video display return to original location – for eliminating the previously edited position memory and return the 4 video display back to the original positions.

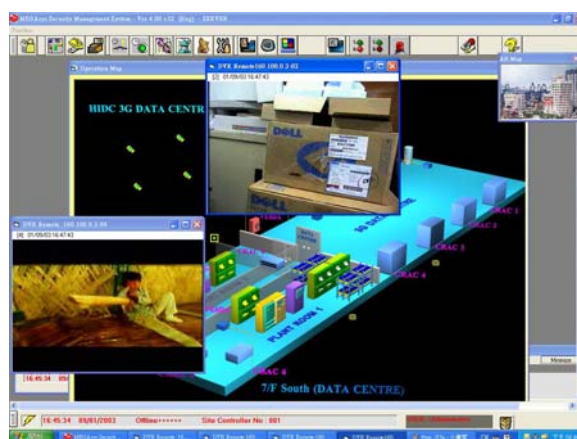
#### I. Operating Method

##### ➤ DVR (digital video exchange)

In order to exchange the small display with the new DVR display being newly opened, press the button to shrink the display size in 2a and exchange it with the new display as shown in 2b. Result as shown in the diagrams below.



<2a>

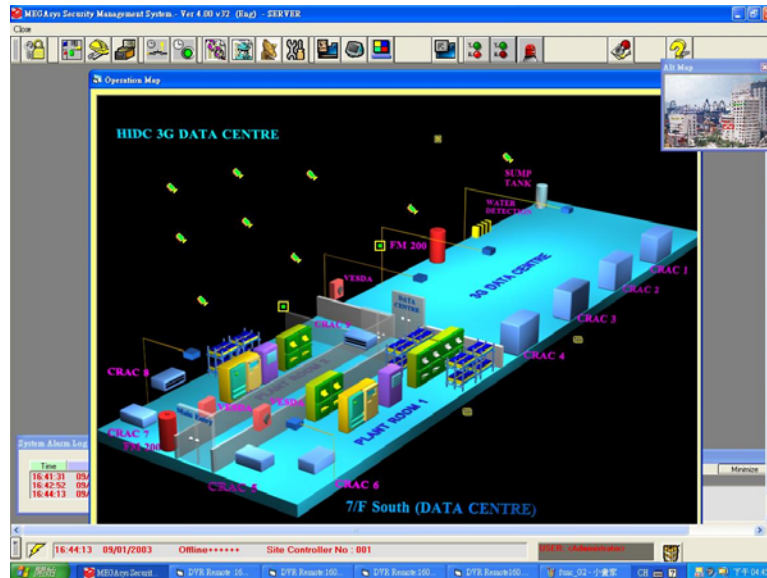


<2b>

### ➤ DVR video display window (DVR Minimize)

To shrink the video screen (as opened per above page) to a minimized window.

Continue from above, now the MEGAsys shows only the Figure-2b (DVRwindow being opened)  
Simply click on the screen again, the window will minimized (as shown on Figure 3).

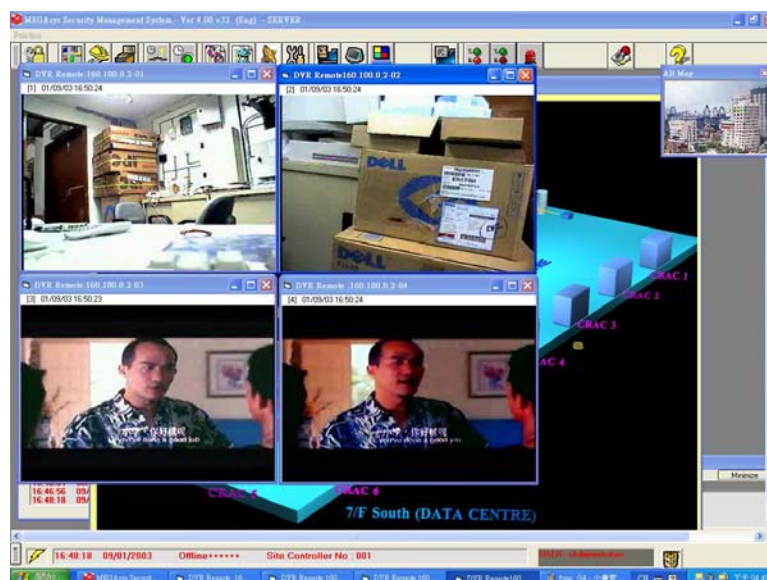


<Figure3>

### ➤ DVR Maximize

To reopen the (previous) already minimized DVR window.

Continue from above, now into the MEGAsys system again, all the screens of the DVR windows has been shrunk to a minimum size. If user click down this button, all the DVR windows will be released, as Figure 4, back to the minimized positions.



<Figure 4>



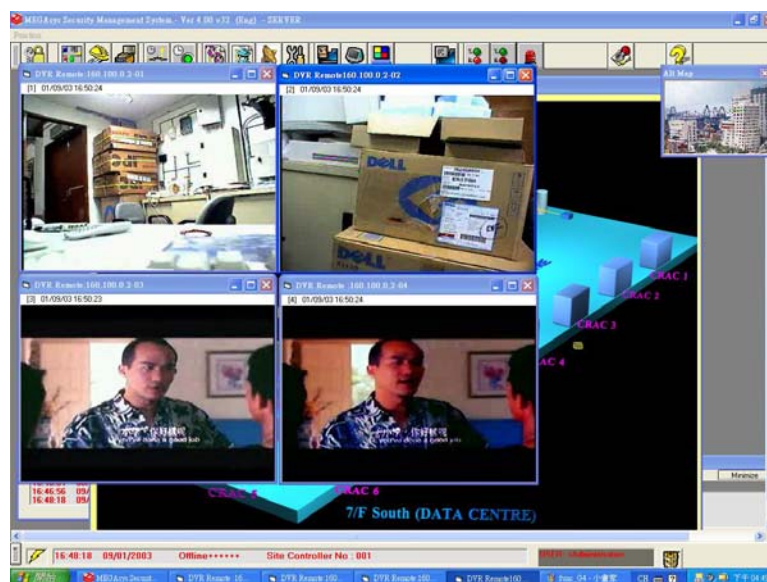
- ❖ User can move the 4 frames of DVR windows into any position as he wishes. As Figure 4-1. If all the windows has been minimized in size, click on this function key will release the DVR windows back to its original position & size.



<Figure 4-1>

### ➤ DVR Position Default

Resetting the window position of the DVR. If the DVR window position is as show in diagram 4-1, user need to click to resume the original position as shown in Figure 5.



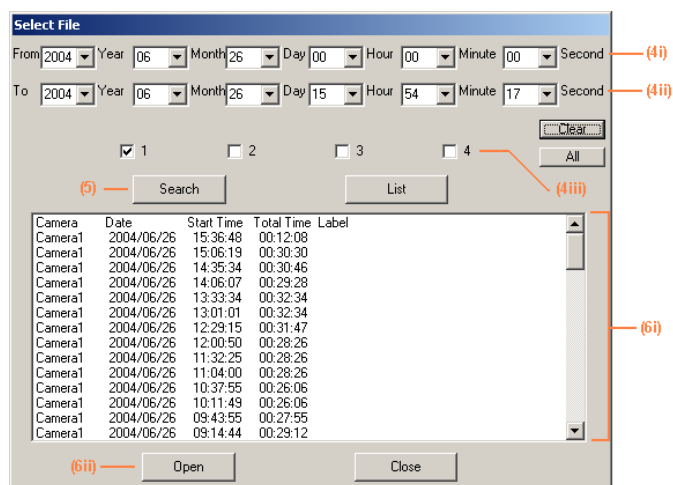
<Figure 5>

## II. Function and Operation of DVR Playback

Double click on the window of DVR, and then enter the proper data, the system will display the selected camera for real time video monitoring or video playback.

Steps are as below:

1. Click the DVR icon on the map.
2. The window will pop –up the real time video play from the DVR click-selected.
3. Double click on the DVR real time video, the DVR will display video playback of re-recorded footage. Press the “File” of the window, the “Select File” window will pop-up.
4. Select on the “Select File” the channel and the time & date you want the video playback to start.
  - a. Select the start date & time (Yr/Mo/Dt/ Hr/ Min/Sec)
  - b. Select the end date & time (Yr/Mo/Dt/ Hr/ Min/Sec)
  - c. Select the channel you want to review (CH#1 ~ CH#16), you can select 1 or more channels.
5. Follow the step (4) as above, press the **Search** key for seeking the other video (shown in the table below)
6. On the table, you can select all the video files you need to review, every file can store a maximum of 4 minutes of video footage, press **Start** to begin reviewing.
7. The DVR Playback window will pop-up , displaying the video you selected.



### III. DVR Playback Functions

1. File – to search for the need video file from system.
2. Alarm – alarm detecting function.
3. PrevSeg/ NextSeg – to see the previous or next video play.
4. Play – start playback of video
5. Backward – rewind back to the previous video.
6. Pause – temporarily stop the palyback.
7. Snap – take a one frame snap shot like taking a photo.
8. Tag – search for video already label with file name
9. Add Tag – insert a label tag onto the video files.
10. Speed – for adjusting the palyback speed, slower or faster.

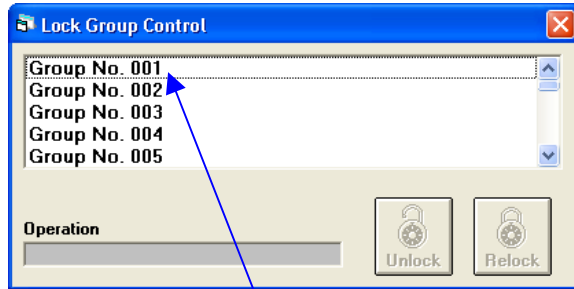




## Chapter 14 Lock Grouping Control



Lock Group Control can provide total of 256 sub-groups for users to use. Whenever alarm system detects any abnormalities, it will alert the operator. By then, the operator can just the serious level of such alarm events, and decides whether to use this function. He must also have the proper authorization level to do so. When the operator select a group, and click onto Unlock/Relock keys , the system will execute this command for the entire group i.e. to lock/unlock all the electric locks within this area group.



Display Lock Group no  
(1-256) and its Lock name.

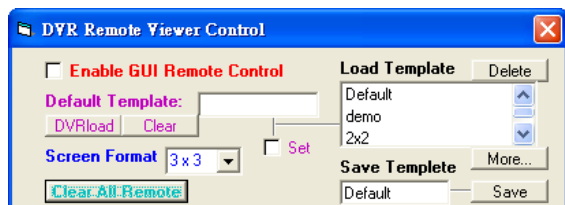
- Unlock – once Lock Group No. has been selected to be operated on, the color of that Lock Group No. will immediately turn to blue. Click onto the icon, system will execute this message command : unlock all the locks within this group.
- Relock –once Lock Group No. has been selected to be operated on, the color of that Lock Group No. will immediately turn to blue. Click onto the icon, system will execute this message command : Relock all the locks within this group.
- Operation – when user click onto the Unlock/Relock icon, system will execute this command. Same time, will display on the Operation box, the lock number being Unlocked / relocked.

## Chapter 15 DVR 16Ch Control



MEGAsys Linux DVR is a new product by Everett Electronics. User can monitor the DVR thru Internet Explorer and can also simultaneously execute the remote recording and playback.

Depends on the actual usage, the user can select to setup and save different video screens. This smallest is a 2x2 split screen combination, and the largest is 10x10. User can also change the video and display location at any time. Below is the details of functions of DVR 16Ch Control:-

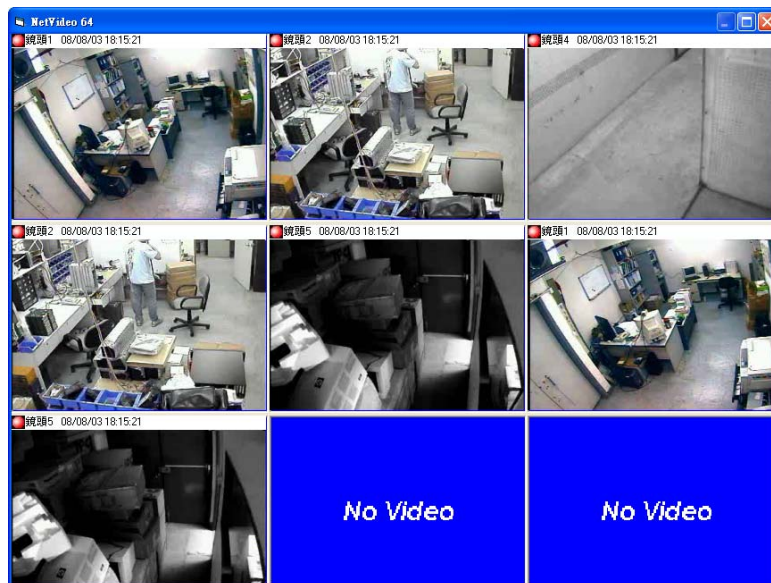


- **More Function Display**  
Display or hide more info. Press this key DVR Remote Viewer Control window size will be expanded, with two selections: Max Frame Rate & Monitor Type. Click again onto DVR Remote Viewer Control, screen size will reduce back to smaller area. Same time [Max Frame Rate & Monitor Type] functions will be hidden.
- **Enable GUI Remote Control function**  
For exchanging the NetVideo64 window cameras and monitors' positions.
- **Default Template**  
Can use this template to set up your own pre-set DVR format interface. Every time when MEGAsys system is being log-in, it will automatically display the DVR screen (position will be same as the time when system was last switched off).
  - ★ Set – this key is for setting the Default Template function.
  - ★ DVR Load icon – “Reset function”, when user wants to watch the NetVideo 64 video signal on the screen, and encounter traffic jam on the internet. Pressing the reset function key will help to resume connection mode.
  - ★ Clear function icon – is for clearing the file name displayed on the Default Template box. Once name of file is cleared from “Default Template” without adding another new file name, then the next time when turning on the MEGAsys system, there will be no more DVR display being shown.
- **Load Template**  
This is for display of pre-set DVR video filing format. There is not limit on the number of files being saved.
  - ★ Delete function – is for deleting the files inside the Load Template.
- **Screen Format function**  
There are total 9 different display format. E.g. 2x2, 3x3, 4x4, ..., 9x9, 10x10. Click to make the selection of the format wanted.
- **Clear All Remote(function icon)**  
To clear all the video files saved inside the NetVideo 64 window.
- **Save Template**  
Click onto the Save Template to add new name and category onto the newly created Templates. Click [Save] to store all the new Templates.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---




<Diagram> NetVideo 64 windows

- ❖ Please refer to the MEGAsys Software Quick Start Manual Ver.3.4 (For MEGAsys Ver.3.xx) Chapter 21 for more on DVR 16Ch Control.

### Chapter 16 Others


**Ch- 2 Com Lite.**



**MDVR** system has two communication light: Channel 2 & Channel 1 (as shown the 1<sup>st</sup> & 2<sup>nd</sup> light)

Once select the COM 1 on the [System Communication], the lights will be flashing continuously when communication is on-going. Same will happen when COM 2 is being selected.

**Ch-1 Comm Lite**



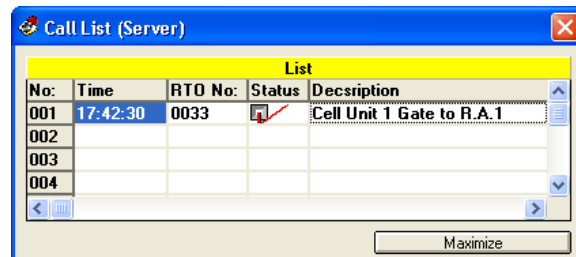
Main Siren Light is located next to the 2<sup>nd</sup> channel light. Once when alarm signal is received, or certain devices are not on-the-line.... This light will be turn on, flashing repeatedly, and will connect the Speaker, users will hear the alarm siren sound.

**System Siren**

### Chapter 17 Electric lock and intercom control



System can control the locks and the intercom , and utilize the output RTO points to control the locks, and request for immediate intercom communication or interlock Macros. (as shown on diagram 17.1)

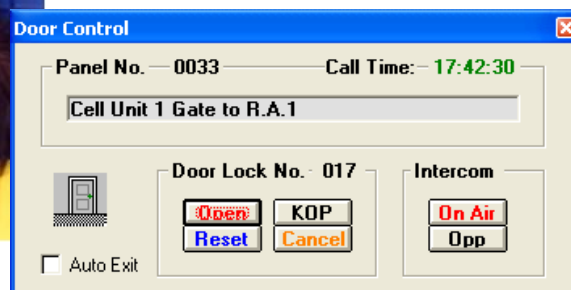


If any of the input points request for intercom communication, the Call List will automatically appear on the display screen, with voice message to tell user the status of that point. Call List will tell you the position of exit, door number and access time. Status shows the current situation, and if there are already another operator handling the situation, there will show a “check” mark on the status box.°

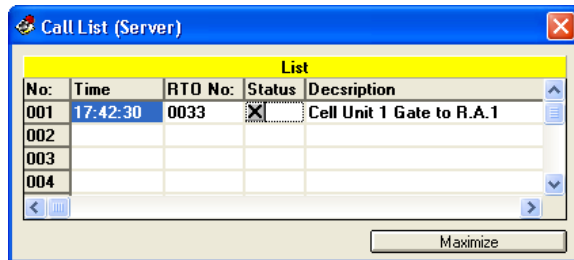
When operator is handling the Door Call, double click the Call List twice, the Door Control display will show a multi-media video screen, with the audio & video transmission of the person who are currently at the door access point.(as shown here)



Multi-media image.



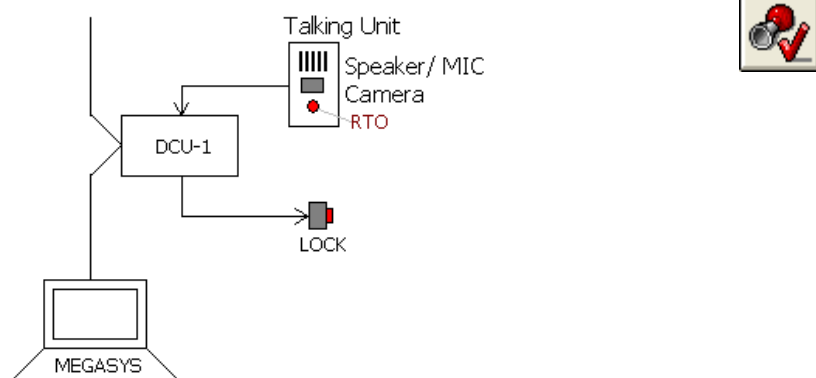
- Location Description
  - Door No. – display when the person is currently at.
  - Call Time – represent the call/access time. All the in/out data will be recorded onto the log.



- Door Control – has 4 functions: Open, Close, Stop& Cancel
  - Open – Click the OPEN key the door will open. Click on to the DCU output port, you will see the light #9/ #10 are on, depending on which door number.
  - Close – Click the CLOSE key, the door will closed. Click on to the DCU output port, you will see the light #11/ #12 light up, depending on which door number.
  - KOP – Click the KOPkey, the door will automatically opened, and will be closed when the key below is clicked. This door key is not limited by the access time, no alarm will be triggered when door was opened for excess time period.
  - Cancel – Click this CANCELkey, the Call List will pop-up in the window, and user can click to access other functions as below.
- Intercom
  - On Air – when this key is turn to red, the operator can talk directly to the person at the outside of the door. When the key turn into blue color, the intercom is being switched off. To change the status, click the next key.
  - Opp – Click this key, the operator can monitor the camera window, to see if the person calling to enter is okay (safe enough) to be allowed into the door.
- Auto Exit  
To start this function, operator click onto the Door Control window Open key. Door Control window will immediately open.

### Appendix – 17: RTO & Intercom control

- ❖ Door Control, if due to some reasons, has no display, this icon will resume the Door Control window.



<Figure17.1>

- ❖ Talking Unit is a product of Everett Electronics, refer to our product brochures for more details.

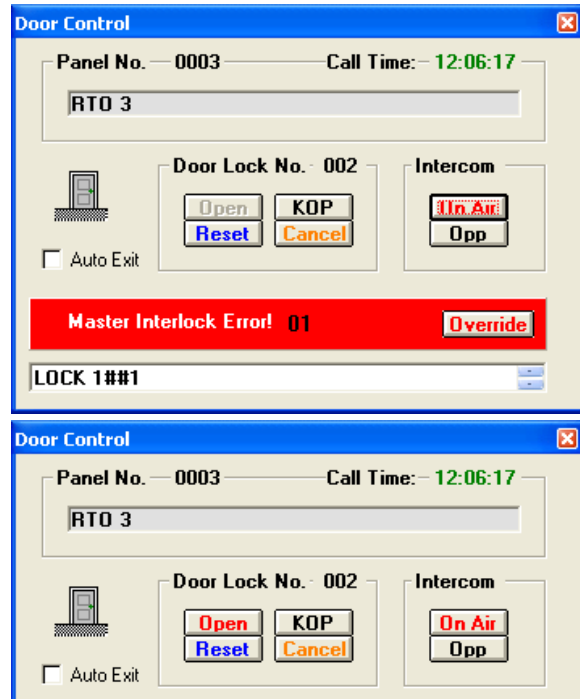
## Appendix – 17: RTO & Intercom control

### Reason for Master Interlock Error?

If one of the door within the same group is not closed properly, and if the operator opens another door of the same group; the system will issue the “Master Interlock Error!” message. Door Control window as shown here:-

Operator must first close one of the doors within the same group, and then open the other door. This can prevent the Master Interlock Error. In short, operator must first inspect if door is closed before opening another one.

- Override – to avoid opening more than one doors with the same group, which is a security risk. Operator must have the authorization to cancel this function.
- ❖ Only the operators or managers with level 7 or above authorization, can execute this Override function . As shown in right , example of override.
- ❖ Override functions, please refer the Door Control window for more details on this function.
- ❖ About the authorization level, please refer page 6 of DCU setup and details about Group Interlock Override priority levels.



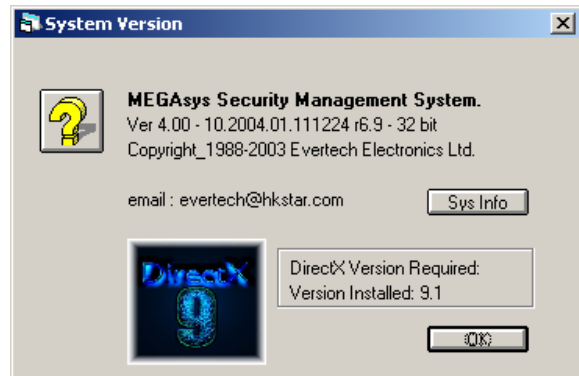
### Chapter 18 System Version



Click onto the System Version on the Main Menu, you will find out all the info about the MEGAsys revisions. This version, we have input the DirectX9 function, to add the sound effect to make menu more attractive and helpful.

MEGAsys system version (32-bit): Ver.4.00 r6.0  
Email: [evertech@hkstar.com](mailto:evertech@hkstar.com)

DirectX Version Installed: 9.2

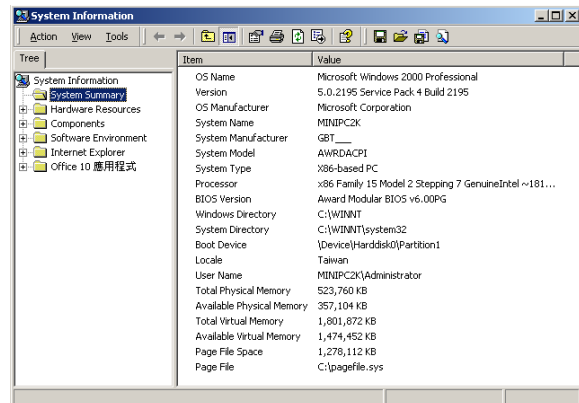


- Sys Info – After click onto this function, please wait for a few seconds, the window will pop up and appear like in the right, System Information.

The content include the following::

1. Hardware resources – list out all the OS (operating system), info, and version...etc.
2. Components – list out all the devices such as the alarm sound, infra-red, interface cards, connector ports...etc.
3. Software environment
4. Internet Explorer
5. Office 10 Application formulas

This function is to provide the relevant information and data for all the concern parties working on this MEGAsys system.



- OK – Click this will log out of this window.

- ❖ If there are any further questions on the above topic, user can contact Everett Electronics by email or telephone. Please (in the email) refer to the version of software user is working on and also list clearly the related problem/issue being encountered.

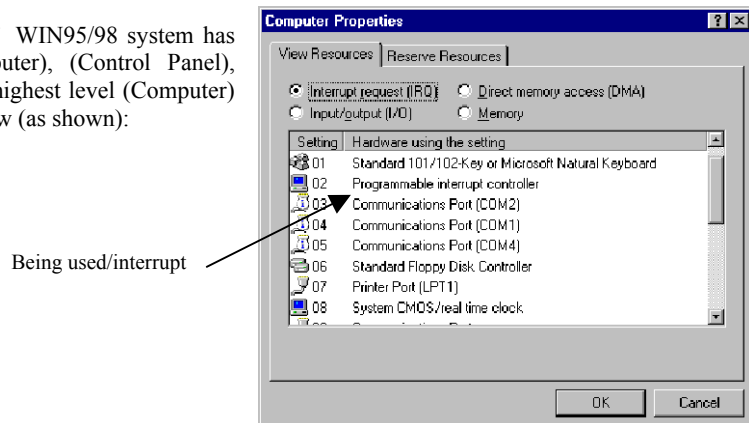
## Chapter 19 Appendix

### Attach. A – Communication card hardware setup

COM1-COM4 communication serial ports setup:

#### Preparation before install

Before turning on the system, first inspect if WIN95/98 system has been under usage. Enter into (My Computer), (Control Panel), (System), (Device Manager), then select the highest level (Computer) double left click twice to enter into this window (as shown):



To check if the ports 3, 4, 5, 10, 11 have been used and thus signal being cut. Check if Com 3, 4 being cut by COM1 & COM2: for concurrently usage. COM1: 或 COM2: or MODOM). The two ports COM1:, COM2: will be released after communication cut-off. Also, check the COM 5, 11, 10 are being occupied by others, see if they can be cancel. Minimum require two interrupt COM ports being 10, 11 idle,

#### **Network Card Interrupt - Please follow the below for setting up:**

MEGAsys CCTV system, use  
COM1: sub-keyboard  
COM2: ACU PTZ network decoder  
COM3: video matrix

MEGAsys CCTV/access/ alarm (3 in 1) use  
COM4: sub-keyboard  
COM2: ACU PTZ network decoder  
COM3: video matrix  
COM1: door access network

DDC98 security alarm system, use  
COM1: main network 1  
COM2: secondary network 2

ET51 -RS422 network card  
COM1: interrupt set as 4  
COM2: interrupt set as 3  
COM3: interrupt set as 11, can use the system idle –interrupt to adjust. Example if interrupt 11 is being occupied, search for a another idle interrupt e.g. 5 from the network, change the card interrupt at the same time. Please refer to ET51 network card brochure  
COM4: interrupt set as 10 can use the system idle –interrupt to adjust.

Please turn off all the power supply to the main computer

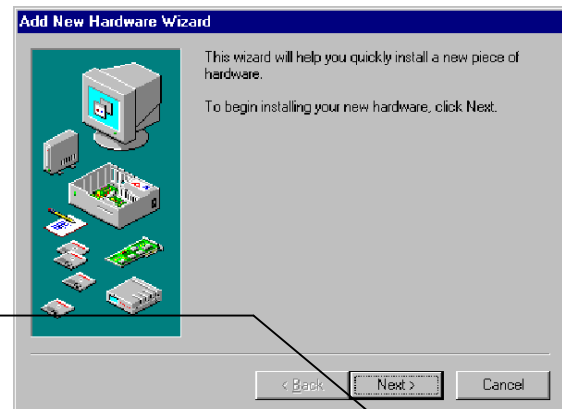
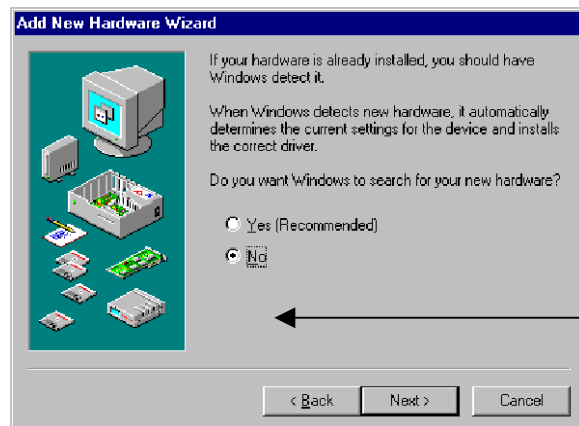
1. Please delete the Comm Serial ports on Main computer, as well as all the related MODEM.( within BIOS) .
2. Properly install the RS-422card (ET51) within the ISA slot.
3. Now, turn on the power supply, boot the computer system, and enter into WIN95/98 system.



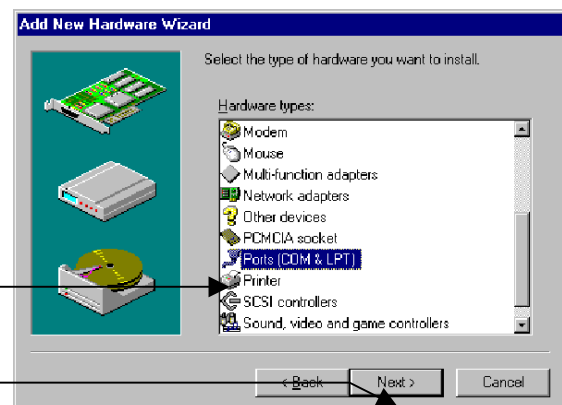
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

Normally the system will auto search for the new hardware, (as shown)  
(May be can insert the serial network card thru the new hardware found)

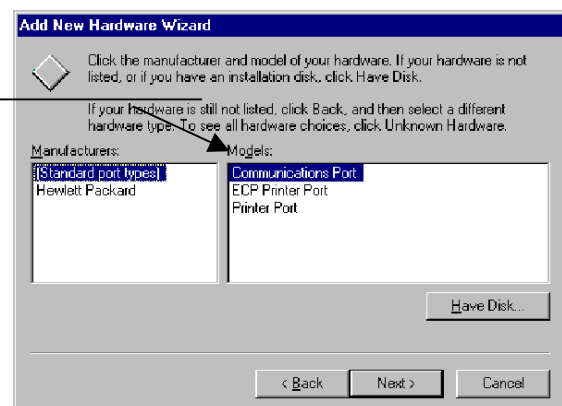


Found Port (COM / PLT)



Select Communication Port as shown, click NEXT key

Port



# MEGAsys – Server

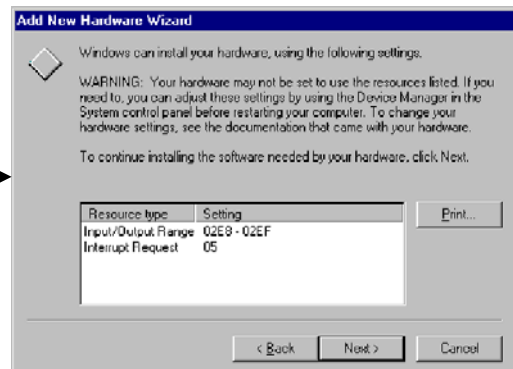
## Graphic Alarm Display System Software Programming Manual

System will self search for new hardware, e.g. COM2, COM3, COM4...etc:

| Port  | Location | Interrupt |           |
|-------|----------|-----------|-----------|
| COM1: | 3F8      | 4         | (Default) |
| COM2: | 2F8      | 3         | (Default) |
| COM3: | 3E8      | 10        | (5, 10)   |
| COM4: | 2E8      | 11        | (5, 10)   |

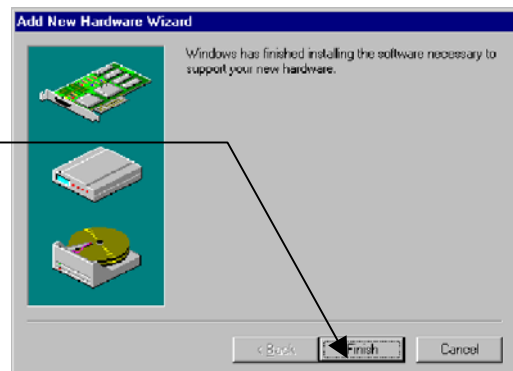
This window will show every time system found new hardware:

After interrupt change again

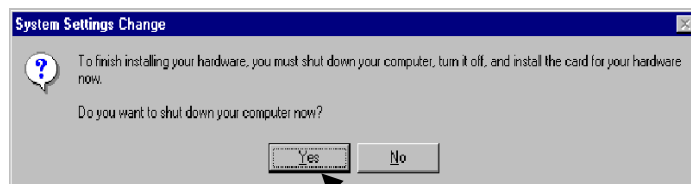


Confirm port locations 3F8, 2F8, 3E8 or 2E8...etc, click NEXT to confirm.

Click FINISH key.



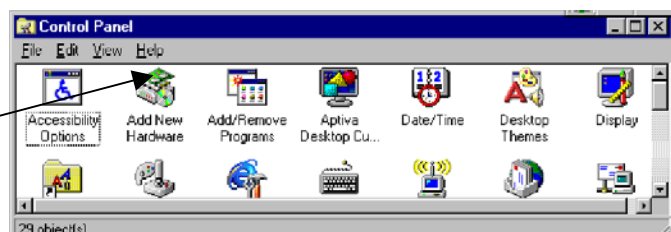
As shown here, the system is doing System Settings Changes:



After add hardware, click YES to complete. Restart the system again to renew files. For all the ones need to add, press YES key(COM1, COM2, COM3...COM4), press NO key if there are still others ports need to be added. Continue to do so until all has been added into the system

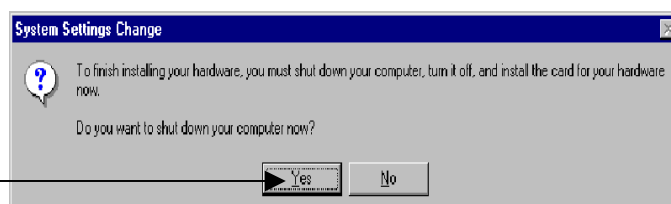
To add more ports, please select the (Add New Hardware)

Select



Return to the start, from the window 1 resume until all has been added, restart the computer again when all has been done.

Restart system



After restart of WIN95/98, enter into the CONTROL PANEL → (System), arrange all the assigned locations, as shown below:

### Hardware locations & interrupt

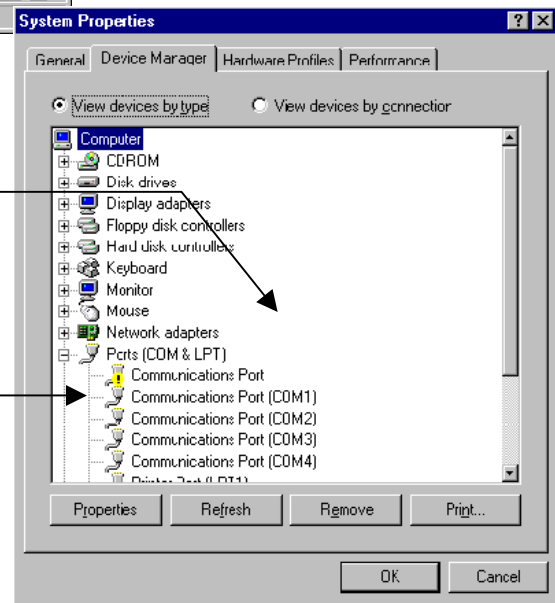
|           |   |
|-----------|---|
| COM1: 3F8 | INT: 4  |
| COM2: 2F8 | INT: 3  |
| COM3: 3E8 | INT: 10 (default) If changed, please press on Interrupt |
| COM4: 2E8 | INT: 11 (default) If changed, please press on Interrupt |



Left click twice on the icon of SYSTEM to get into the window of SYSTEM PROPERTIES, like below.

(1) Select COM1

(2) Select Properties

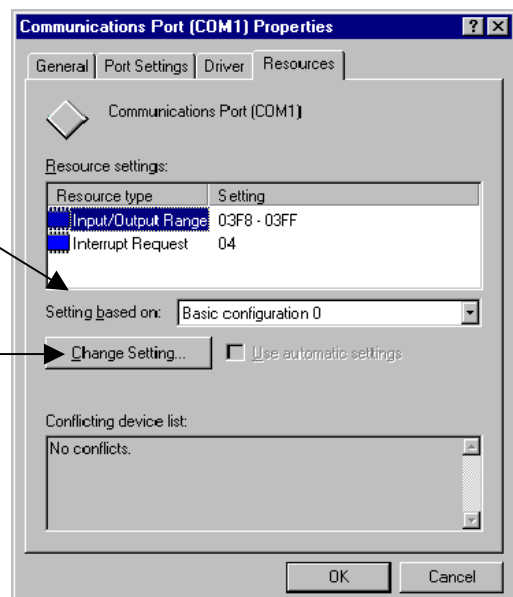


- ❖ If COM1: & COM2: already been set up on main menu before, it is advisable to delete them first, and then reinstall again, to avoid another ports that may be the same in the system.

Click the Resources (as shown):

Setting based on

Device List



# MEGAsys – Server

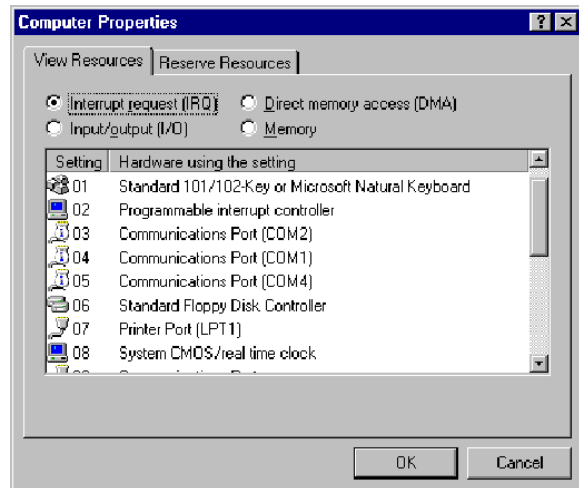
## Graphic Alarm Display System Software Programming Manual

Check the (Input/Output Range) positions, Example COM1: location 3F8, (Interrupt Request) , e.g. COM1: into 4.

If need to recover the interrupt, user can select other Setting based on (Basic configuration 0,1....4). Until Conflicting device list have not overlapped with other hardware, and until No conflicts (Please change the interrupt per the hardware address)

If the interrupt is due to conflict with other hardware, pls use other jumper pins on the interface card to over come this problem.

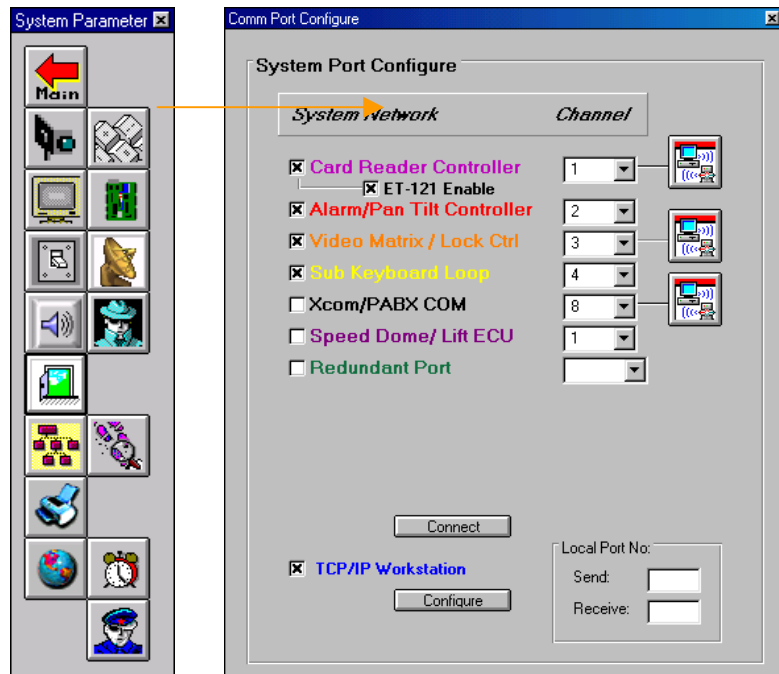
After completion, use the SYSTEM/COMPUTER/View Resources, to check for results:



### MEGAsys system settings as below

Operate the MEGAsys and LOGIN: (User name : SYSTEM, PIN: SYSTEM\_ADMIN)

On the sub-menu, enter system parameters as below:



Click onto the icons to add the ports needed (as shown):

- COM1: Card Reader Controller (default), if system heed to use access control system
- COM2: Alarm/ Pan Tilt Controller (default), if system has ET-8C500, ET-8C800...system reports
- COM3: Video Matrix (default), if system has video functions like ET 6416/ET 3214...
- COM4: Sub Keyboard Loop (default), if system have sub-control key board usage...

To log-out , click the CONFIG WIN key

Restart the computer so that the parameters being changed will be renew with the MEGAsys system.

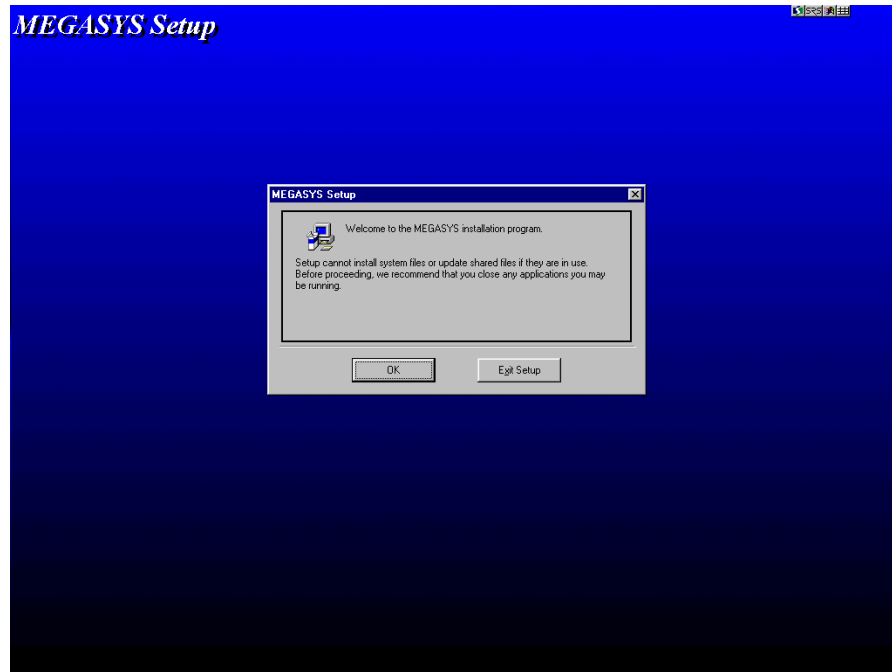
# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

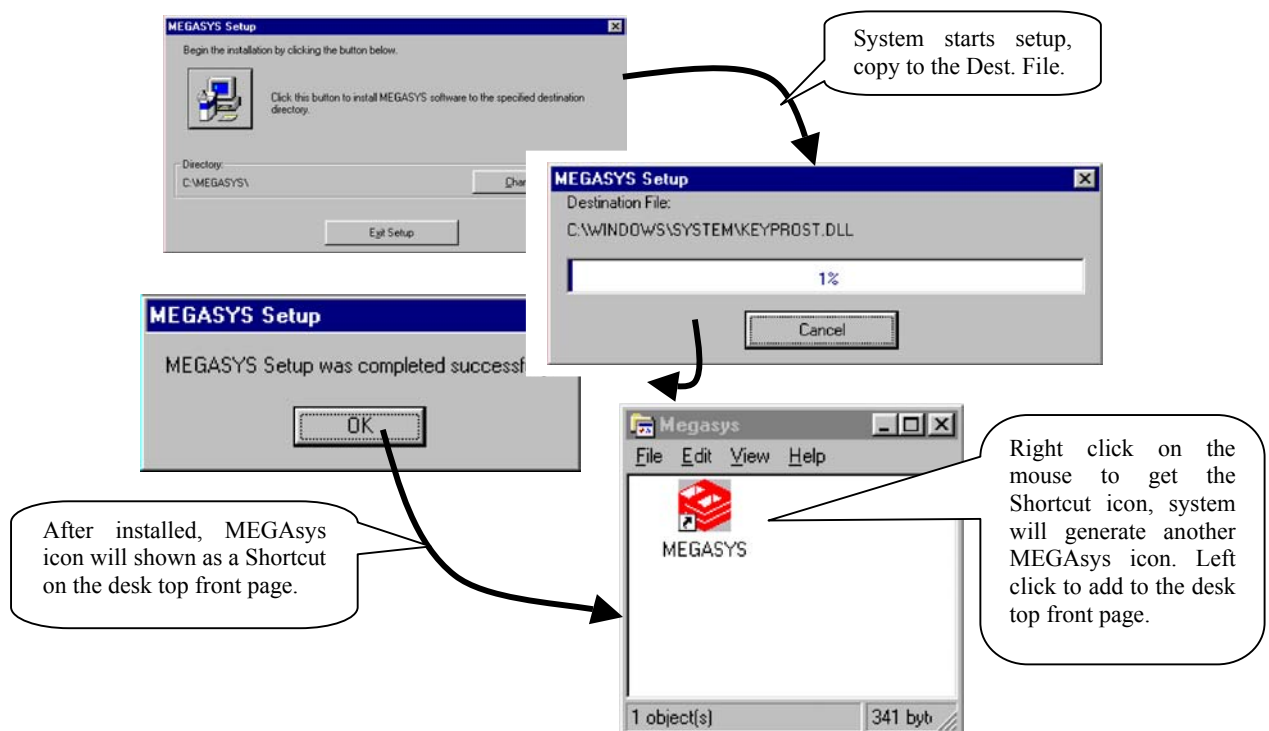
### Attach. B – Software Install

Install the CD disk onto the drive, and start install into MEGAsys. Run Setup.exe:

As shown :



Click OK to Continue...



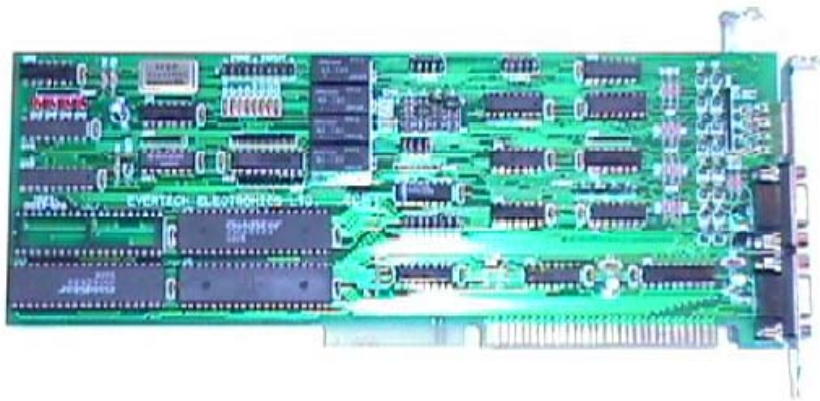
### Attach. C – RS-422 Network Card Applications

This is for providing the RS-422 network card installation and testing procedures. This card has the functions as below:-

- ◆ Four independent RS-422 network interfaces
- ◆ Distance 4000 feet (1.2 Km), Beldin 8723(5Km)
- ◆ IBM compatible serial network interface, speed 1200 –56000
- ◆ Dual or Quad line operation method

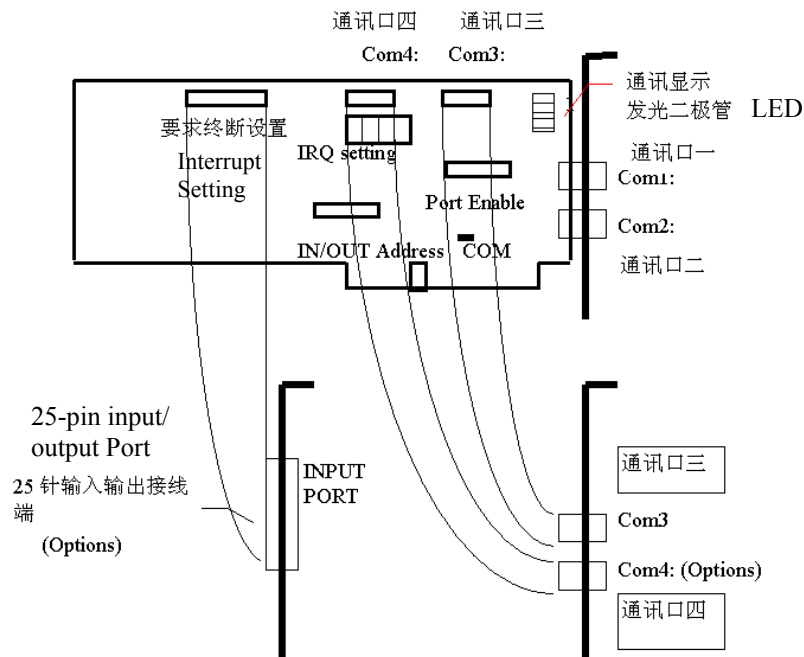
Evertch Electronics produces MEGA security surveillance system, can supply DDC-8804 & DDC-Plugs or DDC-98 system's signal ports: RS-422 Series Card to connect PC computer. To cater for the different system telecom needs, RS-422 network card is designed and built for IBM compatible telecom micro-computers. There are 4 compatible ports, and each of the 4 terminal port address can be setup by the user for their own purpose.

The detail position of each of the cards as shown in Figure 1.



<Figure 1>

RS-422 card (side view) as show on Figure 2. This include 2 x 9 pin-socket. From RS-422 card connected with flat cable with the nine pin socket. RS-422 also has 4 groups of LED diodes for display of the communication status of COM1 to COM 4.



### ⑨ Terminal IRQ Setting Needed

| Comm. Ports           | COM 4       | COM 3       | COM 2       | COM 1       |
|-----------------------|-------------|-------------|-------------|-------------|
| Need Terminal Address | <b>2E8h</b> | <b>3E8h</b> | <b>2F8h</b> | <b>3F8h</b> |
| IRQ3                  |             |             | *           |             |
| IRQ4                  |             |             |             | *           |
| IRQ5                  |             |             |             |             |
| IRQ10                 | *           |             |             |             |
| ORQ11                 |             | *           |             |             |

❖ \*Factory Setting ( Ex-factory as shown below))

MicroPC input/output address setting IN/OUT Address(MASTER I/O)

280H is the in/output address, for the RS-422 card to be connected with the micro-PC system. If there is any incompatibility between 280H and the microPC's devices set up, user can select the other in/output port address.

### I/O address

0000H  
0080H  
0100H  
0180H  
0200H  
0280H\*  
0300H  
0380H

出厂设置为 I/O 280H

Factory Setting (default I/O 280h)

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

Binary address setting of Sub Address A2 A3 A4 A5

|    |                          |     |                                    |
|----|--------------------------|-----|------------------------------------|
| A5 | <input type="checkbox"/> | * * | Factory Setting (Set ON) A2-A5 = 0 |
| A4 | <input type="checkbox"/> | * * |                                    |
| A3 | <input type="checkbox"/> | * * |                                    |
| A2 | <input type="checkbox"/> | * * |                                    |

Select the telecom port as **COM set**

RS-422 telecom card has 4 ports. User need to select them the correct ones for different peripheral devices. Please review the telecom port installation diagram.

|     |   |   |
|-----|---|---|
| 1-4 |  | <b>Factory Setting Default Com1 to Com4</b><br>出厂设置为 COM1-COM4 使用 (插入跳针) 这板使用为 COM1-COM4, 如果插针插入 5-8, 这板使用通讯口为 COM5-COM8. |
| 5-8 |  |   |

### Port Enable/Disable

RS-422 telecom card has 4 ports. User need to select them the correct ones for different peripheral devices. Ex-factory setting of COM1-COM4 all use (insertion pins) , if any of the pins are not inserted, the telecom port cannot work normally.

|        |  |                                |
|--------|--|--------------------------------|
| Port 1 |  | * Factory Setting (default on) |
| Port 2 |  |                                |
| Port 3 |  |                                |
| Port 4 |  |                                |

出厂设置为 COM1-COM4 均使用(插入跳针)

### Open the Packaging

1. Take the RS-422 card from the product package
2. Carefully inspect the product, report any abnormalities, file damage report and inform the shipper for claim if there is any.
3. 3 of the 9 pin sockets are (MEGA software)
4. 2 of the 9 pin sockets are (DDC/ DDC-Plus software)

### Attach. C-1: ET-6416 Video Matrix Controller installation

- ② Install the power cables between the ET-6416video matrix switch controller and the other peripheral devices
- ② Please use the 4-core Twisted pair (Belden 8723) cable, for the RS-422 connection cable.
- ② Secure the ET-6416 video matrix controller with the control cabinet.



## C.1: Connect wiring of ET-6416 Video Matrix and ET-MEGA PC RS-422 card

Now, the user can connect the cables as according to the wiring table below between ET-6416 and ET-MEGA PC RS-422 telecom board terminals.

| ET-6416端<br>9针插头(In) | 针号 | 电线颜色 | 针号 | ET-MEGA PC RS-422通讯板<br>9针插座 |
|----------------------|----|------|----|------------------------------|
| 发射+                  | 1  | 绿    | 3  | 接收 +                         |
| 发射 -                 | 2  | 白    | 4  | 接收 -                         |
| 接收 +                 | 3  | 红    | 1  | 发射+                          |
| 接收 -                 | 4  | 黑    | 2  | 发射 -                         |
| 隔离线网                 | 5  | 线网   | 5  | 隔离线网 (GND)                   |
|                      |    |      | 6  | Relay 1-1                    |
|                      |    |      | 7  | Relay 1-2                    |
|                      |    |      | 8  | Open Collect Output *1       |
|                      |    |      | 9  | Open Collect Output *2       |

## C.2: Connect Output (Master Output Control)

- \*1: COM 1 = I/O port 1 (Relay Output)
- \*2: COM 1 = I/O port 2 (Relay Output)
- \*1: COM 2 = I/O port 3 (Relay Output)
- \*2: COM 2 = I/O port 4 (Relay Output)
- \*1: COM 3 = I/O port 5 (OC Output)
- \*2: COM 3 = I/O port 6 (OC Output)
- \*1: COM 4 = I/O port 7 (OC Output)
- \*2: COM 4 = I/O port 8 (OC Output)

## C.3: Connect Input (Master Input Control (DB25) INPUT PORT)

| Pin   | Port    | Function |
|-------|---------|----------|
| 1, 14 | Input 1 | NONC     |
| 2, 15 | Input 2 | NONC     |
| 3, 16 | Input 3 | NONC     |
| 4, 17 | Input 4 | NONC     |
| 5, 18 | Input 5 | NONC     |
| 6, 19 | Input 6 | NONC     |
| 7, 20 | Input 7 | NONC     |
| 8, 21 | Input 8 | NONC     |

## Attach C-2: Check RS-422 communication signal

Before being used, the user is suggested to first do the safety and precautionary check, as below:-

- A) Pull out the 9 pins of the video matrix controller and measure it with a voltage meter, to make sure that the Pin 1 & Pin 2 has sufficient Voltage Pulse from the end of RS-422 network card.

**Voltage (com signal) should be + / - dc 2.5V-5V**

Due to the empty loading situation, the voltage is higher than normal, and if communication voltage can be detected from the video matrix control device, this proves the RS-422 card (transmitter portion) is working normally. Now, measure the Pin 3 & Pin 4 for the same voltage results to ensure the video matrix controller is also working okay.

- B) Take the pins from both ends and insert them into the socket. Now, observe the communication condition of MEGA PC main computer from the CPU panel of ET-6416 to ensure the system boot-up and self-diagnostics operation is okay.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

### Attach. C-3: Fault Finding

- When there is power supply problem with the devices.

| Check Result | Where to inspect   |
|--------------|--|
| Fault        | Inspect the external power supply, and the fuse if it is open circuit. |
| No Fault     | Take the next step of inspection.                                      |

- When inspect communication condition, observe the LED flashing status when signal receive & transmit.

| Check Result   | Where to inspect   |
|----------------|--|
| Transmit Fault | Inspect transmitter external connections, if the LED or COM card have been damaged.                      |
| Receive Fault  | Inspect transmitter external connections, if the LED or COM card have been damaged.                      |
|                | Disconnect the external power, check the incoming voltage from controller.                               |
|                | Inspect the RS-422 network card portion, observe the LED flashing status when signal receive & transmit. |
| No Fault       | Take the next step of inspection.  |

- ❖ When inspect the faulty device's external connected wirings.

After the above inspection, user can clear most of the ordinary faults, and helps to identify the root problem. If the fault persists, please follow the steps below. If during these inspection steps, user still cannot resolve the problem, kindly contact Evertch Electronics or call the local dealer and request for their technical assistance & support.

- ❖ When device is not connected with power, first inspect the communication transmission end, to see if there is sufficient +/- DC 2.5-5 V at the Pin 3 and P4 position of the 9-Pin socket. If the measured voltage cannot reach the +/-DC2.5V, the communication card could have a problem, and thus need to be exchanged.
- ❖ After the communication transmit end has been inspected to be normal, user can now connect to the power cable (please note the proper insertion position from the manual).
- ❖ After the power connected, user can see the LED from the device, total 3 units of LED. One to indicate transmission, the other for receive, and the middle LED indicates the data passage from the next communication transmission unit.
- ❖ From these LED, user can the receiver LED will flash first, and then follow by the transmitter LED. Then, the two will be flashing one after another, like asking and answering of questions between them. This flashing will continue until power off.
- ❖ ET-6416 matrix controller to be initiate set up, the system need to have at least one unit of video recorder (which must have at least one channel video input). Without this minimum input, the system software will not work, and will shut down the operation.
- ❖ After the above steps, (from voltage inspection, and then observe the two LED indicators of the RS-422 communication properly, we can now proceed to program as well as to operate this system.

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

### Attach. D – Table of Parameters

Camera Parameters Table

Project Name: \_\_\_\_\_

Page: \_\_\_\_\_

Date: \_\_\_\_\_

|    | Camera Number | Camera Description | Alarm Message Input | Interlock Output<br>Macros Command Input | *Pan/Till/Zoom Decoder |        | Map Name | Remarks |
|----|---------------|--------------------|---------------------|--|------------------------|--------|----------|---------|
|    |               |                    |                     |  | ET-Series              | Others |          |         |
| 1  |               |                    |                     |  |                        |        |          |         |
| 2  |               |                    |                     |  |                        |        |          |         |
| 3  |               |                    |                     |  |                        |        |          |         |
| 4  |               |                    |                     |  |                        |        |          |         |
| 5  |               |                    |                     |  |                        |        |          |         |
| 6  |               |                    |                     |  |                        |        |          |         |
| 7  |               |                    |                     |  |                        |        |          |         |
| 8  |               |                    |                     |  |                        |        |          |         |
| 9  |               |                    |                     |  |                        |        |          |         |
| 10 |               |                    |                     |  |                        |        |          |         |
| 11 |               |                    |                     |  |                        |        |          |         |
| 12 |               |                    |                     |  |                        |        |          |         |
| 13 |               |                    |                     |  |                        |        |          |         |
| 14 |               |                    |                     |  |                        |        |          |         |
| 15 |               |                    |                     |  |                        |        |          |         |
| 16 |               |                    |                     |  |                        |        |          |         |

❖ Make "check" mark on the appropriate item with "\*"



# MEGAsys – Server

## Remote Processing Unit Parameters

Project Name: \_\_\_\_\_

RPU No.: \_\_\_\_\_

Page: \_\_\_\_\_  
Date: \_\_\_\_\_[illegible]

❖ *Make "check" mark on the appropriate item with "\*".*



## MEGAsys – Server

### Output Device Parameters

Project Name: \_\_\_\_\_

RPU No.: \_\_\_\_\_

Page: \_\_\_\_\_  
Date: \_\_\_\_\_[illegible]

❖ *Make "check" mark on the appropriate item with "＊"*





# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Auto Secure/Access Time Table

Project : \_\_\_\_\_ Page: \_\_\_\_\_  
 # of Entry/exit points: \_\_\_\_\_ Date: \_\_\_\_\_

| Time zone # | Time   |        | * Execution Date |     |     |     |      |     |     | Remarks |
|-------------|--------|--------|------------------|-----|-----|-----|------|-----|-----|---------|
|             | Secure | Access | Sun              | Mon | Tue | Wed | Thru | Fri | Sat |         |
| 1           | :      | :      |                  |     |     |     |      |     |     |         |
| 2           | :      | :      |                  |     |     |     |      |     |     |         |
| 3           | :      | :      |                  |     |     |     |      |     |     |         |
| 4           | :      | :      |                  |     |     |     |      |     |     |         |
| 5           | :      | :      |                  |     |     |     |      |     |     |         |

# of Entry/exit points:

| Time zone # | Time   |        | * Execution Date |     |     |     |      |     |     | Remarks |
|-------------|--------|--------|------------------|-----|-----|-----|------|-----|-----|---------|
|             | Secure | Access | Sun              | Mon | Tue | Wed | Thru | Fri | Sat |         |
| 1           | :      | :      |                  |     |     |     |      |     |     |         |
| 2           | :      | :      |                  |     |     |     |      |     |     |         |
| 3           | :      | :      |                  |     |     |     |      |     |     |         |
| 4           | :      | :      |                  |     |     |     |      |     |     |         |
| 5           | :      | :      |                  |     |     |     |      |     |     |         |

# of Entry/exit points:

| Time zone # | Time   |        | * Execution Date |     |     |     |      |     |     | Remarks |
|-------------|--------|--------|------------------|-----|-----|-----|------|-----|-----|---------|
|             | Secure | Access | Sun              | Mon | Tue | Wed | Thru | Fri | Sat |         |
| 1           | :      | :      |                  |     |     |     |      |     |     |         |
| 2           | :      | :      |                  |     |     |     |      |     |     |         |
| 3           | :      | :      |                  |     |     |     |      |     |     |         |
| 4           | :      | :      |                  |     |     |     |      |     |     |         |
| 5           | :      | :      |                  |     |     |     |      |     |     |         |

❖ Note: on the “\*” item, pls add the check mark on the appropriate item.



MEGAsys – Server  
Graphic Alarm Display System Software Programming Manual

User Access Card Table

Page: \_\_\_\_\_  
Date: \_\_\_\_\_

|    | Record Number | Card Number | Employee Number | Employee Name | Dept. | Access Zone | Zone Number | Card Valid Date | * Card Status |     |          | Remarks |
|----|---------------|-------------|-----------------|---------------|-------|-------------|-------------|-----------------|---------------|-----|----------|---------|
|    |               |             |                 |               |       |             |             |                 | Start Use     | VIP | Stop Use |         |
| 1  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 2  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 3  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 4  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 5  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 6  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 7  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 8  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 9  |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 10 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 11 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 12 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 13 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 14 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 15 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 16 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 17 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 18 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 19 |               |             |                 |               |       |             |             |                 |               |     |          |         |
| 20 |               |             |                 |               |       |             |             |                 |               |     |          |         |

*Make "check" mark on the appropriate item with "\*"*



MEGAsys – Server

Graphic Alarm Display System Software Programming Manual

Personal Data Table of Card Holder

Page: \_\_\_\_\_  
Date: \_\_\_\_\_

|                     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Record Number       |     |     |     |     |     |     |     |     |
| Employee No.        |     |     |     |     |     |     |     |     |
| ID Number           |     |     |     |     |     |     |     |     |
| Employ Date         | / / | / / | / / | / / | / / | / / | / / | / / |
| Safety Card No      | / / | / / | / / | / / | / / | / / | / / | / / |
| Card start date     | / / | / / | / / | / / | / / | / / | / / | / / |
| Contact Tele.       |     |     |     |     |     |     |     |     |
| Emergency No.       |     |     |     |     |     |     |     |     |
| Training Date       | / / | / / | / / | / / | / / | / / | / / | / / |
| Skill Cert. No.     |     |     |     |     |     |     |     |     |
| Disciplinary Record |     |     |     |     |     |     |     |     |
| Work Injury Record  |     |     |     |     |     |     |     |     |
| Remarks             |     |     |     |     |     |     |     |     |



MEGAsys – Server

Graphic Alarm Display System Software Programming Manual

Time Zone Table

Project Name : \_\_\_\_\_

Page: \_\_\_\_\_

Date: \_\_\_\_\_

| Time Zone | Day     | Time     |        |          |        | Time Zone | Day     | Time     |        |          |        |
|-----------|---------|----------|--------|----------|--------|-----------|---------|----------|--------|----------|--------|
|           |         | Begin #1 | End #1 | Begin #2 | End #2 |           |         | Begin #1 | End #1 | Begin #2 | End #2 |
|           | Mon     | :        | :      | :        | :      |           | Mon     | :        | :      | :        | :      |
|           | Tue     | :        | :      | :        | :      |           | Tue     | :        | :      | :        | :      |
|           | Wed     | :        | :      | :        | :      |           | Wed     | :        | :      | :        | :      |
|           | Thu     | :        | :      | :        | :      |           | Thu     | :        | :      | :        | :      |
|           | Fri     | :        | :      | :        | :      |           | Fri     | :        | :      | :        | :      |
|           | Sat     | :        | :      | :        | :      |           | Sat     | :        | :      | :        | :      |
|           | Sun     | :        | :      | :        | :      |           | Sun     | :        | :      | :        | :      |
|           | Holiday | :        | :      | :        | :      |           | Holiday | :        | :      | :        | :      |
|           | Mon     | :        | :      | :        | :      |           | Mon     | :        | :      | :        | :      |
|           | Tue     | :        | :      | :        | :      |           | Tue     | :        | :      | :        | :      |
|           | Wed     | :        | :      | :        | :      |           | Wed     | :        | :      | :        | :      |
|           | Thu     | :        | :      | :        | :      |           | Thu     | :        | :      | :        | :      |
|           | Fri     | :        | :      | :        | :      |           | Fri     | :        | :      | :        | :      |
|           | Sat     | :        | :      | :        | :      |           | Sat     | :        | :      | :        | :      |
|           | Sun     | :        | :      | :        | :      |           | Sun     | :        | :      | :        | :      |
|           | Holiday | :        | :      | :        | :      |           | Holiday | :        | :      | :        | :      |





## MEGAsys – Server

# Graphic Alarm Display System Software Programming Manual

Project Name: \_\_\_\_\_

Page: \_\_\_\_\_

---

---

Date: \_\_\_\_\_

## Access Door Table

[illegible]



# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### Card Reader Table

Project Name: \_\_\_\_\_

Page: \_\_\_\_\_

DDC 9000 Number: \_\_\_\_\_

Date: \_\_\_\_\_

|                | Input Description | Interlock Output | Message Broadcast |
|----------------|-------------------|------------------|-------------------|
| #1 Alarm Point |                   |                  |                   |
| #2 Alarm Point |                   |                  |                   |
| #3 Alarm Point |                   |                  |                   |

|         | * Operation Mode |            | * Dual Card Mode |           | * Supervisory Mode |     | Unlock Time<br>(0 = 1/4 sec.) | Unlock Time<br>x Factor<br>(1-3) |
|---------|------------------|------------|------------------|-----------|--------------------|-----|-------------------------------|----------------------------------|
|         | Read Card        | Card & PIN | Normal           | Dual card | Pause              | Use |                               |                                  |
| #1 Door |                  |            |                  |           |                    |     | (0-255)                       | (1-3)                            |
| #2 Door |                  |            |                  |           |                    |     | (0-255)                       | (1-3)                            |

### DDC 9000 Tamper

|                 | Door #1          |                 | Door #2          |                 |
|-----------------|------------------|-----------------|------------------|-----------------|
|                 | Interlock Output | Audio Broadcast | Interlock Output | Audio Broadcast |
| Normal Read     |                  |                 |                  |                 |
| Time Zone Error |                  |                 |                  |                 |
| Adnormal Read   |                  |                 |                  |                 |
| Force open door |                  |                 |                  |                 |
| Door stay open  |                  |                 |                  |                 |
| Door closed     |                  |                 |                  |                 |
| Ele. Door fault |                  |                 |                  |                 |
| Circuit open    |                  |                 |                  |                 |

*Make "check" mark on the appropriate item with "\*\*"*



# MEGAsys – Server

Elevator Controller (ELV 1000)

---

---

---

---

Page: \_\_\_\_\_

---

---

Date: \_\_\_\_\_

## (I) ELV Access Template

[illegible]



MEGAsys – Server

Graphic Alarm Display System Software Programming Manual

Elevator Controller (ELV 1000)

Project Name: \_\_\_\_\_

ELV Number: \_\_\_\_\_

Page: \_\_\_\_\_

Date: \_\_\_\_\_

(II) ELV Normal Access Timer

|      |   | Timer #1 |     | Timer #2 |     |
|------|---|----------|-----|----------|-----|
|      |   | Start    | End | Start    | End |
| Sun  | 1 |          |     |          |     |
|      | 2 |          |     |          |     |
|      | 3 |          |     |          |     |
|      | 4 |          |     |          |     |
| Mon  | 1 |          |     |          |     |
|      | 2 |          |     |          |     |
|      | 3 |          |     |          |     |
|      | 4 |          |     |          |     |
| Tues | 1 |          |     |          |     |
|      | 2 |          |     |          |     |
|      | 3 |          |     |          |     |
|      | 4 |          |     |          |     |
| Wed  | 1 |          |     |          |     |
|      | 2 |          |     |          |     |
|      | 3 |          |     |          |     |
|      | 4 |          |     |          |     |
| Thru | 1 |          |     |          |     |
|      | 2 |          |     |          |     |
|      | 3 |          |     |          |     |
|      | 4 |          |     |          |     |
| Fri  |   | Group    |     | Timer #1 |     |
|      |   | 1        |     | Start    | End |
|      |   | 2        |     |          |     |
|      |   | 3        |     |          |     |
| Sat  |   | 4        |     |          |     |
|      |   | 1        |     |          |     |
|      |   | 2        |     |          |     |
|      |   | 3        |     |          |     |
|      |   | 4        |     |          |     |
|      |   |          |     |          |     |
|      |   |          |     |          |     |
|      |   |          |     |          |     |





MEGAsys – Server

Graphic Alarm Display System Software Programming Manual

Elevator Control (ELV 1000)

Project Name: \_\_\_\_\_

ELV Number: \_\_\_\_\_

Page: \_\_\_\_\_

Date: \_\_\_\_\_

(III) Card Template Setup

|    | Card No. | Elv. Access Author. | Floor Template |    | Card No. | Elv. Access Auth. | Floor Template |
|----|----------|---------------------|----------------|----|----------|-------------------|----------------|
| 1  |          |                     |                | 26 |          |                   |                |
| 2  |          |                     |                | 27 |          |                   |                |
| 3  |          |                     |                | 28 |          |                   |                |
| 4  |          |                     |                | 29 |          |                   |                |
| 5  |          |                     |                | 30 |          |                   |                |
| 6  |          |                     |                | 31 |          |                   |                |
| 7  |          |                     |                | 32 |          |                   |                |
| 8  |          |                     |                | 33 |          |                   |                |
| 9  |          |                     |                | 34 |          |                   |                |
| 10 |          |                     |                | 35 |          |                   |                |
| 11 |          |                     |                | 36 |          |                   |                |
| 12 |          |                     |                | 37 |          |                   |                |
| 13 |          |                     |                | 38 |          |                   |                |
| 14 |          |                     |                | 39 |          |                   |                |
| 15 |          |                     |                | 40 |          |                   |                |
| 16 |          |                     |                | 41 |          |                   |                |
| 17 |          |                     |                | 42 |          |                   |                |
| 18 |          |                     |                | 43 |          |                   |                |
| 19 |          |                     |                | 44 |          |                   |                |
| 20 |          |                     |                | 45 |          |                   |                |
| 21 |          |                     |                | 46 |          |                   |                |
| 22 |          |                     |                | 47 |          |                   |                |
| 23 |          |                     |                | 48 |          |                   |                |
| 24 |          |                     |                | 49 |          |                   |                |
| 25 |          |                     |                | 50 |          |                   |                |



# MEGAsys – Server

Elevator Controller (ELV 1000)

---

Page: \_\_\_\_\_

---

---

---

---

---

Date: \_\_\_\_\_

**(IV) ELV Access Level**

[illegible]



MEGAsys – Server

Graphic Alarm Display System Software Programming Manual

Patrol Tour Time Table (P.1)

Patrol Tour Number : \_\_\_\_\_ Page: \_\_\_\_\_  
Patrol Station Description: \_\_\_\_\_ Date: \_\_\_\_\_

| Item | Input No. | System No. | User Card No. | Arrival Time | Delay Time | Item | Input No. | System No. | User Card No. | Arrival Time | Delay Time |
|------|-----------|------------|---------------|--------------|------------|------|-----------|------------|---------------|--------------|------------|
| 1    |           |            |               | :            |            | 26   |           |            |               | :            |            |
| 2    |           |            |               | :            |            | 27   |           |            |               | :            |            |
| 3    |           |            |               | :            |            | 28   |           |            |               | :            |            |
| 4    |           |            |               | :            |            | 29   |           |            |               | :            |            |
| 5    |           |            |               | :            |            | 30   |           |            |               | :            |            |
| 6    |           |            |               | :            |            | 31   |           |            |               | :            |            |
| 7    |           |            |               | :            |            | 32   |           |            |               | :            |            |
| 8    |           |            |               | :            |            | 33   |           |            |               | :            |            |
| 9    |           |            |               | :            |            | 34   |           |            |               | :            |            |
| 10   |           |            |               | :            |            | 35   |           |            |               | :            |            |
| 11   |           |            |               | :            |            | 36   |           |            |               | :            |            |
| 12   |           |            |               | :            |            | 37   |           |            |               | :            |            |
| 13   |           |            |               | :            |            | 38   |           |            |               | :            |            |
| 14   |           |            |               | :            |            | 39   |           |            |               | :            |            |
| 15   |           |            |               | :            |            | 40   |           |            |               | :            |            |
| 16   |           |            |               | :            |            | 41   |           |            |               | :            |            |
| 17   |           |            |               | :            |            | 42   |           |            |               | :            |            |
| 18   |           |            |               | :            |            | 43   |           |            |               | :            |            |
| 19   |           |            |               | :            |            | 44   |           |            |               | :            |            |
| 20   |           |            |               | :            |            | 45   |           |            |               | :            |            |
| 21   |           |            |               | :            |            | 46   |           |            |               | :            |            |
| 22   |           |            |               | :            |            | 47   |           |            |               | :            |            |
| 23   |           |            |               | :            |            | 48   |           |            |               | :            |            |
| 24   |           |            |               | :            |            | 49   |           |            |               | :            |            |
| 25   |           |            |               | :            |            | 50   |           |            |               | :            |            |



MEGAsys – Server

Graphic Alarm Display System Software Programming Manual

Patrol Tour Time Table (P.2)

Patrol Tour Number : \_\_\_\_\_ Page: \_\_\_\_\_  
Patrol Station Description: \_\_\_\_\_ Date: \_\_\_\_\_

| Item | Input No. | System No. | User Card No. | Arrival Time | Delay Time | Item | Input No. | System No. | User Card No. | Arrival Time | Delay Time |
|------|-----------|------------|---------------|--------------|------------|------|-----------|------------|---------------|--------------|------------|
| 51   |           |            |               | :            |            | 76   |           |            |               | :            |            |
| 52   |           |            |               | :            |            | 77   |           |            |               | :            |            |
| 53   |           |            |               | :            |            | 78   |           |            |               | :            |            |
| 54   |           |            |               | :            |            | 79   |           |            |               | :            |            |
| 55   |           |            |               | :            |            | 80   |           |            |               | :            |            |
| 56   |           |            |               | :            |            | 81   |           |            |               | :            |            |
| 57   |           |            |               | :            |            | 82   |           |            |               | :            |            |
| 58   |           |            |               | :            |            | 83   |           |            |               | :            |            |
| 59   |           |            |               | :            |            | 84   |           |            |               | :            |            |
| 60   |           |            |               | :            |            | 85   |           |            |               | :            |            |
| 61   |           |            |               | :            |            | 86   |           |            |               | :            |            |
| 62   |           |            |               | :            |            | 87   |           |            |               | :            |            |
| 63   |           |            |               | :            |            | 88   |           |            |               | :            |            |
| 64   |           |            |               | :            |            | 89   |           |            |               | :            |            |
| 65   |           |            |               | :            |            | 90   |           |            |               | :            |            |
| 66   |           |            |               | :            |            | 91   |           |            |               | :            |            |
| 67   |           |            |               | :            |            | 92   |           |            |               | :            |            |
| 68   |           |            |               | :            |            | 93   |           |            |               | :            |            |
| 69   |           |            |               | :            |            | 94   |           |            |               | :            |            |
| 70   |           |            |               | :            |            | 95   |           |            |               | :            |            |
| 71   |           |            |               | :            |            | 96   |           |            |               | :            |            |
| 72   |           |            |               | :            |            | 97   |           |            |               | :            |            |
| 73   |           |            |               | :            |            | 98   |           |            |               | :            |            |
| 74   |           |            |               | :            |            | 99   |           |            |               | :            |            |
| 75   |           |            |               | :            |            | 100  |           |            |               | :            |            |





DCU – 2 (P.1)

Project : \_\_\_\_\_  
 DCU No.: \_\_\_\_\_ (1-64)

Page: \_\_\_\_\_  
 Date: \_\_\_\_\_

| <b><u>DOOR LOCK</u></b> |  | <b><u>RTO PANEL</u></b> |   |
|-------------------------|--|-------------------------|---|
| No.: ____               | Description: _____<br>Alarm Interlock: _____                 | No.: ____<br>(ENTER)    | RTO (A) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
|                         | Unlock Timer: _____ (0-15s)<br>Interlock Group: _____ (1-64) | No.: ____<br>(EXIT)     | RTO (B) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
| No.: ____               | Description: _____<br>Alarm Interlock: _____                 | No.: ____<br>(ENTER)    | RTO (A) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
|                         | Unlock Timer: _____ (0-15s)<br>Interlock Group: _____ (1-64) | No.: ____<br>(EXIT)     | RTO (B) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
| No.: ____               | Description: _____<br>Alarm Interlock: _____                 | No.: ____<br>(ENTER)    | RTO (A) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
|                         | Unlock Timer: _____ (0-15s)<br>Interlock Group: _____ (1-64) | No.: ____<br>(EXIT)     | RTO (B) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
| No.: ____               | Description: _____<br>Alarm Interlock: _____                 | No.: ____<br>(ENTER)    | RTO (A) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |
|                         | Unlock Timer: _____ (0-15s)<br>Interlock Group: _____ (1-64) | No.: ____<br>(EXIT)     | RTO (B) Description: _____<br>Operation Interlock: _____<br>Default Video Camera No.: _____ (1-640) |

| <b><u>DCU Alarm Control</u></b>           |   |
|---|---|
| Position : _____                          | Macro Audio File : _____                  |
| Anti-tamper Alarm Interlock Output: _____ |   |
| AC _____                                  | Power _____ Interlock _____ Output: _____ |
| Battery Low voltage : _____               |   |

| <b><u>External Alarm</u></b> |                                    |
|------------------------------|------------------------------------|
| Zone #1                      | Message: _____<br>Interlock: _____ |
| Zone #2                      | Message: _____<br>Interlock: _____ |
| Zone #3                      | Message: _____<br>Interlock: _____ |
| Zone #4                      | Message: _____<br>Interlock: _____ |



## DCU – 2 (P.2)

Project Name: \_\_\_\_\_ Page: \_\_\_\_\_  
 DCU No.: \_\_\_\_\_ (1-64) Date: \_\_\_\_\_

|                   |                 | <b>MONITOR No.</b> |               |               |               |
|-------------------|-----------------|--------------------|---------------|---------------|---------------|
|                   |                 | <u>MON #1</u>      | <u>MON #2</u> | <u>MON #3</u> | <u>MON #4</u> |
| <b>Input No.:</b> |                 |                    |               |               |               |
|                   | <b>RTO No.:</b> | <u>CAM #1</u>      | <u>CAM #2</u> | <u>CAM #3</u> | <u>CAM #4</u> |
| 1                 |                 |                    |               |               |               |
| 2                 |                 |                    |               |               |               |
| 3                 |                 |                    |               |               |               |
| 4                 |                 |                    |               |               |               |
| 5                 |                 |                    |               |               |               |
| 6                 |                 |                    |               |               |               |
| 7                 |                 |                    |               |               |               |
| 8                 |                 |                    |               |               |               |

DCU No.: \_\_\_\_\_ (1-64) Date: \_\_\_\_\_

|                   |                 | <b>MONITOR No.</b> |               |               |               |
|-------------------|-----------------|--------------------|---------------|---------------|---------------|
|                   |                 | <u>MON #1</u>      | <u>MON #2</u> | <u>MON #3</u> | <u>MON #4</u> |
| <b>Input No.:</b> |                 |                    |               |               |               |
|                   | <b>RTO No.:</b> | <u>CAM #1</u>      | <u>CAM #2</u> | <u>CAM #3</u> | <u>CAM #4</u> |
| 1                 |                 |                    |               |               |               |
| 2                 |                 |                    |               |               |               |
| 3                 |                 |                    |               |               |               |
| 4                 |                 |                    |               |               |               |
| 5                 |                 |                    |               |               |               |
| 6                 |                 |                    |               |               |               |
| 7                 |                 |                    |               |               |               |
| 8                 |                 |                    |               |               |               |

DCU No.: \_\_\_\_\_ (1-64) Date: \_\_\_\_\_

|                   |                 | <b>MONITOR No.</b> |               |               |               |
|-------------------|-----------------|--------------------|---------------|---------------|---------------|
|                   |                 | <u>MON #1</u>      | <u>MON #2</u> | <u>MON #3</u> | <u>MON #4</u> |
| <b>Input No.:</b> |                 |                    |               |               |               |
|                   | <b>RTO No.:</b> | <u>CAM #1</u>      | <u>CAM #2</u> | <u>CAM #3</u> | <u>CAM #4</u> |
| 1                 |                 |                    |               |               |               |
| 2                 |                 |                    |               |               |               |
| 3                 |                 |                    |               |               |               |
| 4                 |                 |                    |               |               |               |
| 5                 |                 |                    |               |               |               |
| 6                 |                 |                    |               |               |               |
| 7                 |                 |                    |               |               |               |
| 8                 |                 |                    |               |               |               |



Table for Operator Authorization Level (1)

Project : \_\_\_\_\_

Page: \_\_\_\_\_

Date: \_\_\_\_\_

| Operate/Control scope |                                       | Position/Level | Operator |   |   | Supervisor |   |   | Manager |   |
|-----------------------|---------------------------------------|----------------|----------|---|---|------------|---|---|---------|---|
|                       |                                       |                | 0        | 1 | 2 | 3          | 4 | 5 | 6       | 7 |
| Main Control          | Operation Scope & Authorization Level |                |          |   |   |            |   |   |         |   |
|                       | 1. System Log-in                      |                |          |   |   |            |   |   |         |   |
|                       | 2. Operation Mimic Map                |                |          |   |   |            |   |   |         |   |
|                       | 3. Edit Mimic Map                     |                |          |   |   |            |   |   |         |   |
|                       | 4. Setting Parameters                 |                |          |   |   |            |   |   |         |   |
|                       | 5. Time Group Setting                 |                |          |   |   |            |   |   |         |   |
|                       | 6. Output Group Setting               |                |          |   |   |            |   |   |         |   |
|                       | 7. Video Tour                         |                |          |   |   |            |   |   |         |   |
|                       | 8. Alarm Log                          |                |          |   |   |            |   |   |         |   |
|                       | 9. Access Log                         |                |          |   |   |            |   |   |         |   |
|                       | 10. Communication Status              |                |          |   |   |            |   |   |         |   |
|                       | 11. Monitor Control                   |                |          |   |   |            |   |   |         |   |
|                       | 12. Video Playback                    |                |          |   |   |            |   |   |         |   |
|                       | 13. Self Diagnostics                  |                |          |   |   |            |   |   |         |   |
| Access Control        | Access Control Authorizations         |                |          |   |   |            |   |   |         |   |
|                       | 1. User Info                          |                |          |   |   |            |   |   |         |   |
|                       | 2. Time Zone                          |                |          |   |   |            |   |   |         |   |
|                       | 3. Access Zone                        |                |          |   |   |            |   |   |         |   |
|                       | 4. Access Control                     |                |          |   |   |            |   |   |         |   |
|                       | 5. Special Date                       |                |          |   |   |            |   |   |         |   |
|                       | 6. Reader Setup                       |                |          |   |   |            |   |   |         |   |
|                       | 7. Zone Control                       |                |          |   |   |            |   |   |         |   |
|                       | 8. Comm Status                        |                |          |   |   |            |   |   |         |   |
|                       | 9. Access Usage                       |                |          |   |   |            |   |   |         |   |
|                       | 10. Attendance Report                 |                |          |   |   |            |   |   |         |   |
|                       | LOCK CONTROL                          |                |          |   |   |            |   |   |         |   |
|                       | 11. Lock Control                      |                |          |   |   |            |   |   |         |   |
|                       | 12. Override                          |                |          |   |   |            |   |   |         |   |
|                       | Personal Data Control                 |                |          |   |   |            |   |   |         |   |
|                       | 13. Delete Info                       |                |          |   |   |            |   |   |         |   |
|                       | 14. Keyboard PIN NO.                  |                |          |   |   |            |   |   |         |   |
|                       | 15. Proper Usage                      |                |          |   |   |            |   |   |         |   |
|                       | 16. VIP                               |                |          |   |   |            |   |   |         |   |
|                       | 17. Stop Usage                        |                |          |   |   |            |   |   |         |   |

Please make a check mark on each of the box for selecting of authorization levels.



Table for Operator Authorization Level (2)

Project : \_\_\_\_\_

Page: \_\_\_\_\_

Date: \_\_\_\_\_

| Ops/Control Scope     |   | Position/ Author. Levels |   |   | Operator |   |   | Supervisor |   |  | Manager |  |
|-----------------------|---|--------------------------|---|---|----------|---|---|------------|---|--|---------|--|
|                       |   | 0                        | 1 | 2 | 3        | 4 | 5 | 6          | 7 |  |         |  |
| Data Base             | Authorization for Operations                |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 1. Camera                                   |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 2. Monitor                                  |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 3. Input Devices                            |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 4. Output Device                            |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 5. Door Access                              |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 6. System Parameters.                       |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 7. System Printer                           |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 8. Sub Control Keyboard                     |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 9. Hardware setting                         |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 10. Communication setting                   |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 11. Operation Authority Levels              |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 12. Even Log                                |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 13. Event Control                           |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 14. Patrol Tour                             |                          |   |   |          |   |   |            |   |  |         |  |
| Operation Graphics    | Map Control Operation Authority             |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 1. Icon Input/output                        |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 2. Card Reader Icon                         |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 3. Camera Control Icon                      |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 4. Link Map Operation                       |                          |   |   |          |   |   |            |   |  |         |  |
|                       | MASTER OUTPUT CONTROL                       |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 5. Set ON                                   |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 6. Set OFF                                  |                          |   |   |          |   |   |            |   |  |         |  |
| Patrol                | Patrol Tour Authority Level                 |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 1. Edit Patrol Route                        |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 2. Tour Route Status Table                  |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 3. Tour Route Report                        |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 4. Define Patrol Card                       |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 5. Define Patrol Card Reader                |                          |   |   |          |   |   |            |   |  |         |  |
| DCU                   | DCU Operation Authority Levels              |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 1. Electric Lock Control Program            |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 2. Lock Control Operation Map (Alarm Reset) |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 3. RTO Control Front Panel (Lock Control)   |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 4. Call List Answer                         |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 5. Group Interlock Override                 |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 6. Lock Group Control                       |                          |   |   |          |   |   |            |   |  |         |  |
|                       | 7. Door Keep Open Control                   |                          |   |   |          |   |   |            |   |  |         |  |
| 8. Door Reset Control |   |                          |   |   |          |   |   |            |   |  |         |  |

❖ Make a check mark on the box for the appropriate authorization levels.



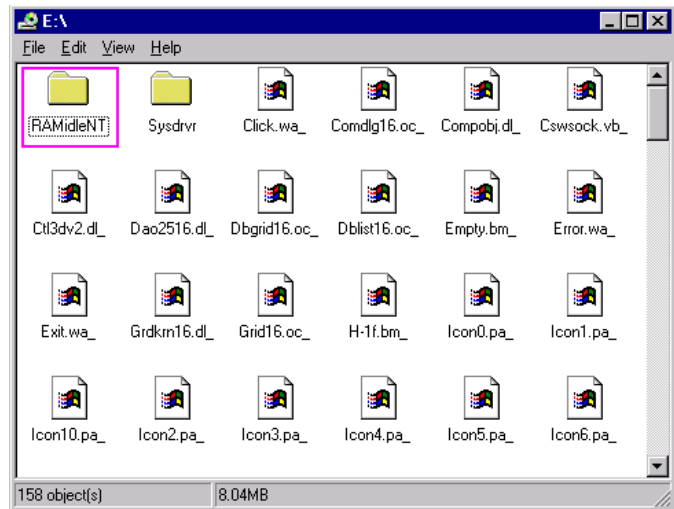


# MEGAsys – Server

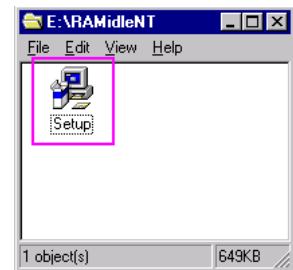
## Graphic Alarm Display System Software Programming Manual

### Attach. E – Install RAM Idle (NT Version)

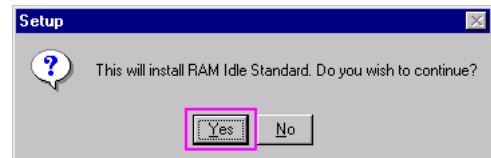
1. Load the MEGAsys CD-ROM disk, and look for the “RAMIdleNT” file as shown by the window here.



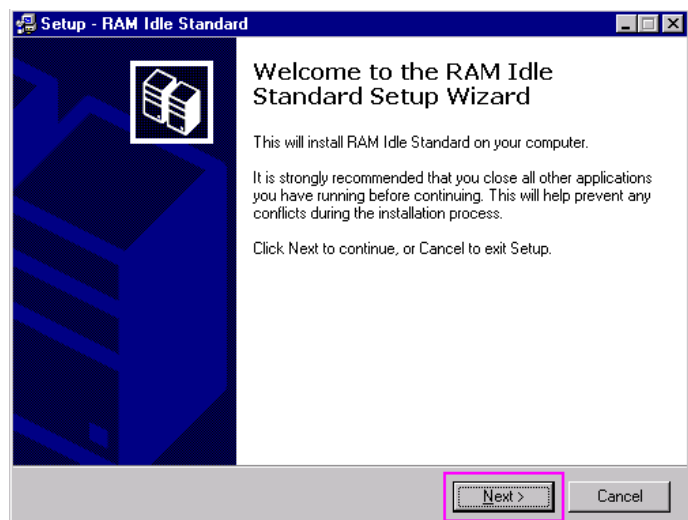
2. Double click the “RAMIdleNT” file, to show a window E:\RAMIdleNT (as shown).



3. Double click Setup when inside E:\RAMIdleNT window.
4. Select the ☒ Yes with this Setup file.



5. Window showing – Setup –RAM Idle Standard.
6. Continue to click this ☒ Next key when in this setup window.

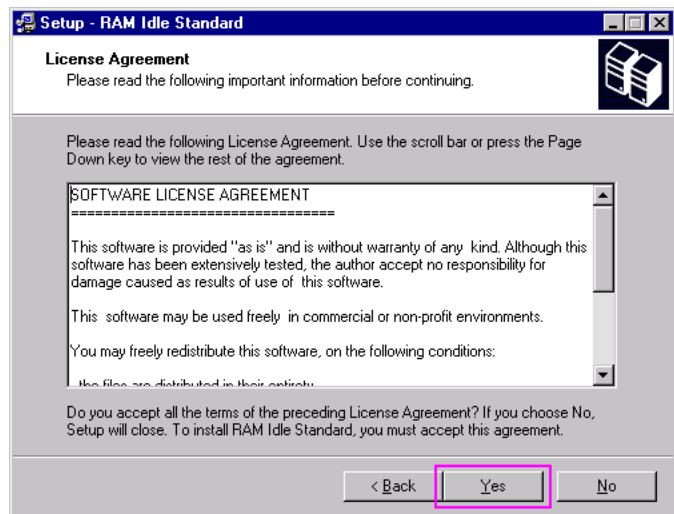


# MEGAsys – Server

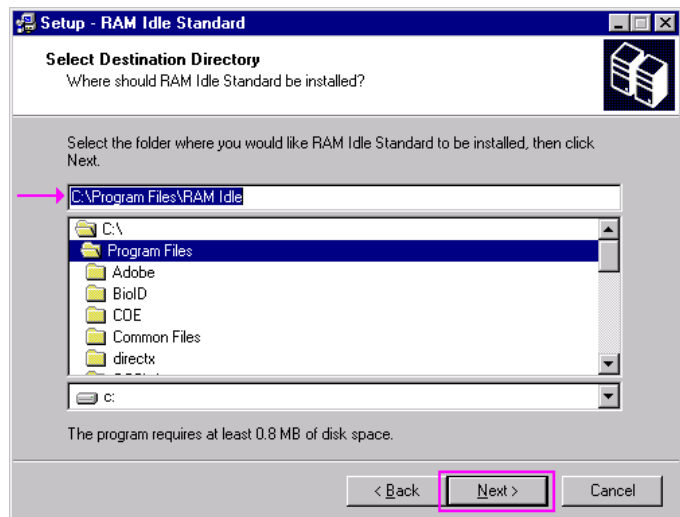
## Graphic Alarm Display System Software Programming Manual

---

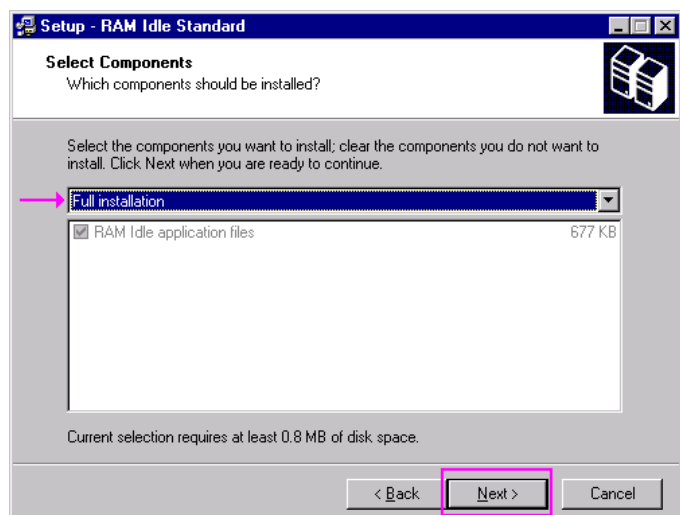
7. On this window – License Agreement, click **Yes**.



8. Next window – Select Destination Directory°. Select RAM Idle file location, if no need to change this RAM Idle file location, click **Next**



9. Next window – Select Components°. need to select one of the 3:- Full Installation, Compact Installation or Custom Installation°. User must select “Full Installation” and then click **Next**

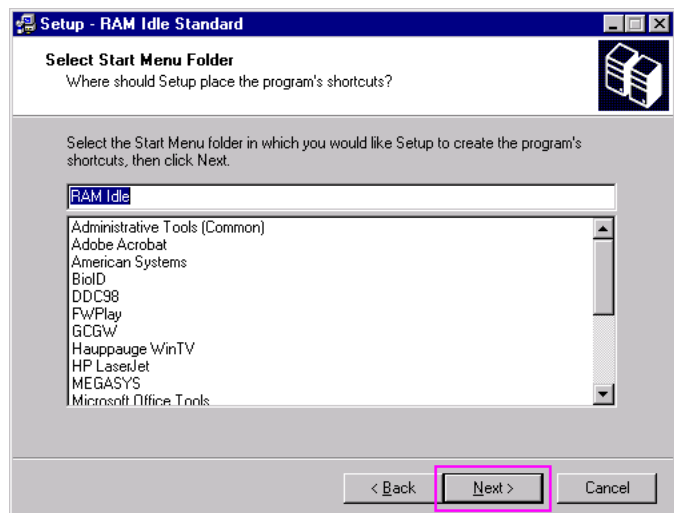


# MEGAsys – Server

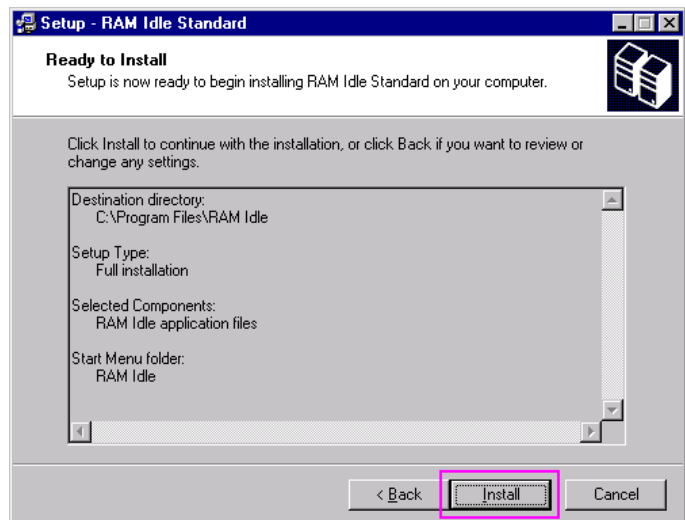
## Graphic Alarm Display System Software Programming Manual

---

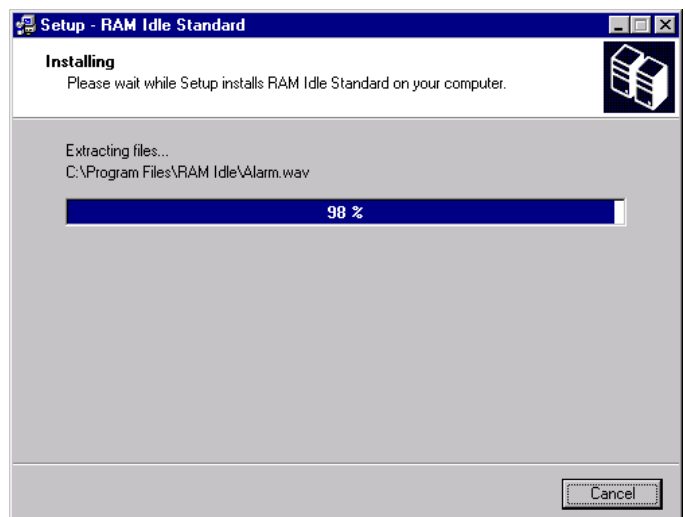
10. Next Window – Select Start Menu Folder, click **Next**



11. Next window – Ready to Install® If the content is check to be correct, user must click **Install** Otherwise, click **Back** key to redo the previous key in steps.



12. Installing window will appear, system will auto install until 100% completion, and will show the last window as below.

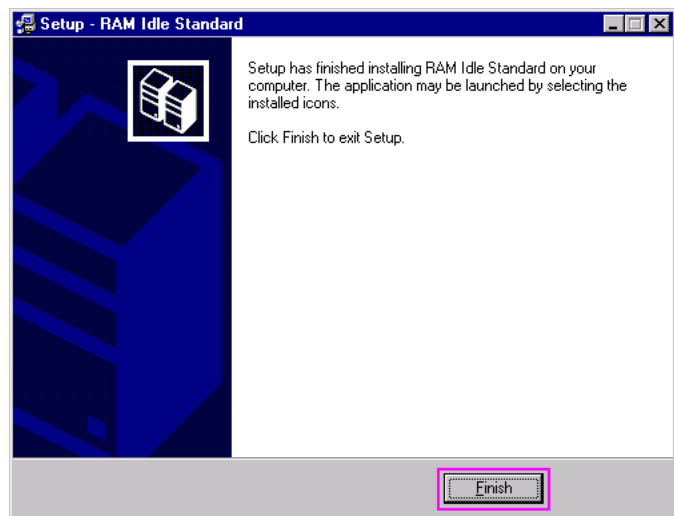


# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

---

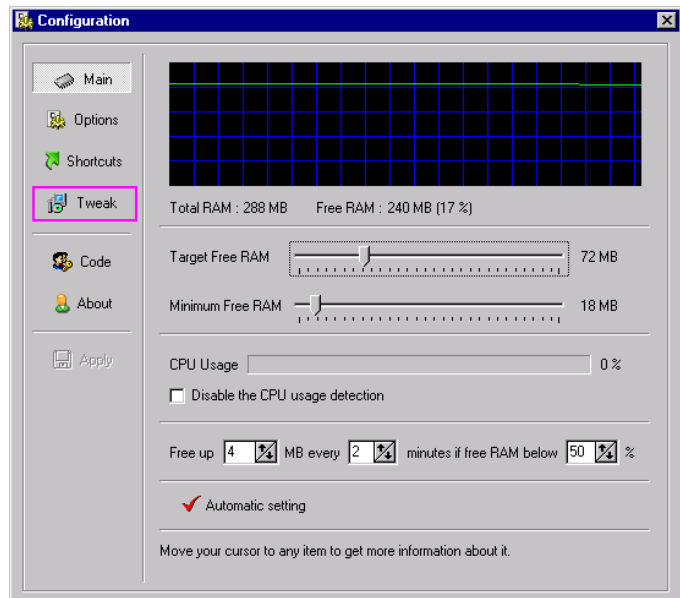
13. Click the **Finish** to complete the Setup of – RAM Idle Standard,



14. After the installation is completed, there is a new Icon appearing on this computer screen as shown here. This is to display the RAM resources available from the operating system.



15. Now, enter the Idle RAM page, and double click the RAM Idle icon, Configuration window will appear.
16. On the Main page, there is a display of Free RAM
17. Click the Tweak icon on the Configuration window.

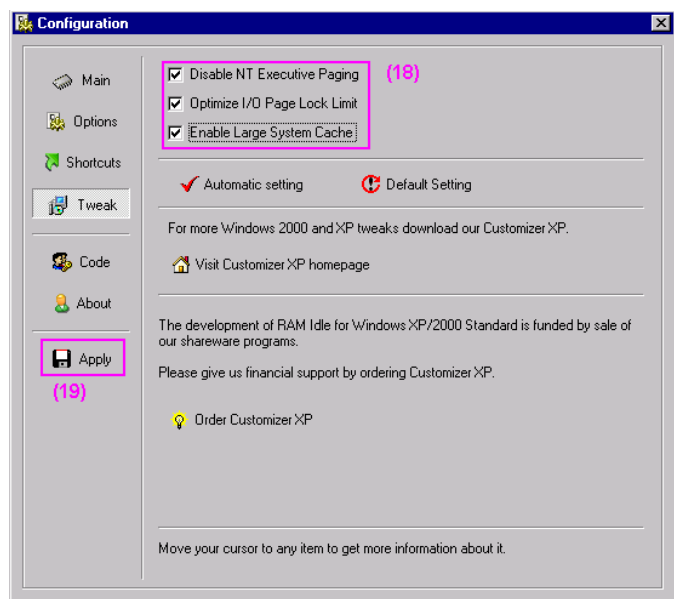


# MEGAsys – Server

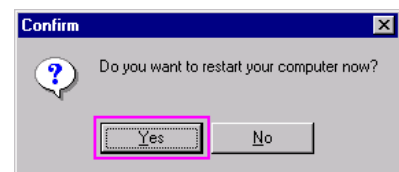
## Graphic Alarm Display System Software Programming Manual

---

18. On the Tweak page, the user must select one of the three (as shown) :
- Disable NT Executive Paging
  - Optimize I/O Page Lock Limit
  - Enable Large System Cache
19. After selection is completed, click the window **Apply** key, to apply the latest changes.,

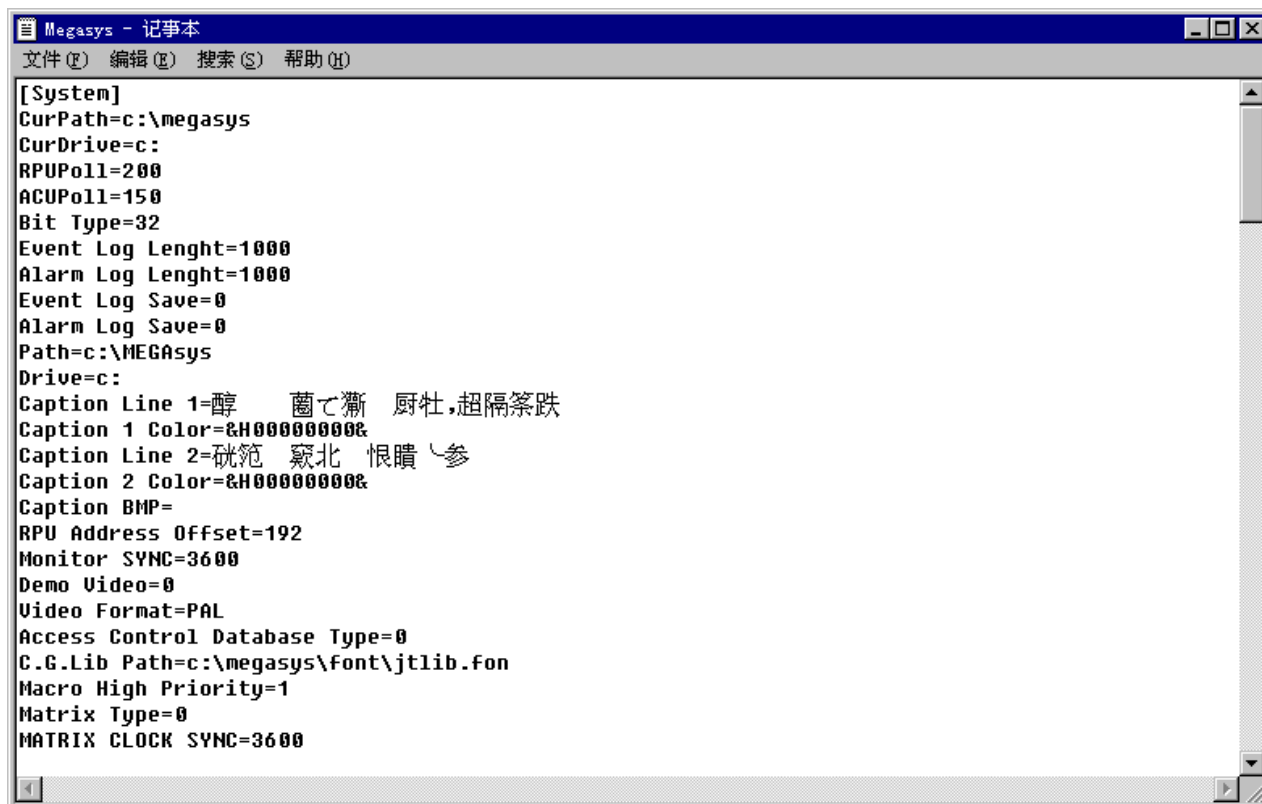


20. Next window – Confirm, asking the user if need to restart the computer to reset the changes made. Click **Yes**
21. System will immediate log-out of window an reboot the computer system






### Attach. F – Edit File MEGASYS.ini

Log into C:\Winnt\ MEGASYS.ini file.



#### [System] Instructions:

- CurPath – is MEGAsys' current installation path. Just like the data files within similar entry path can allow user to enter into MEGAsys to view the saved files.  >  > , with this [Default Value: CurPath = C:\MEGAsys]
- CurDrive – means MEGAsys can now start to install which Drive. Normally, it will be select the Drive C. User can follow the same path (as above) to enter and check the files saved into the MEGAsys system where the rest of MEGAsys data are also stored [Default Value: CurDrive = C:]
- RPUoll – for setting up the time of RPU Polling. Preset value is 120, which means 8 x Polling per second is allowed. [Default Value: RPUoll = 120]
- ACUPoll – for setting up the time of ACU Polling. Preset value is 120, which means every second there can be 8 times Polling. [Default Value: ACUPoll = 120]
- Bit Type – for setting which type of platform for MEGAsys operation (English or Chinese). If user select the English Platform, please set the bit type as 16. If user decide on Chinese Platform, please set to 32-bit [Default Value: Bit Type = 16]
- Event Log Length – the system can only store a maximum number of “access door system event log” . When the max number of events is being reached, the system will automatically clear the “Event Log” to make room for newer event recording. <TableAppx F-1> [Default Value: Event Log Length = 1000]
- Alarm Log Length –the system can only store a maximum number of “alarm event log” . When the Max number of events is being reached, the system will automatically clear (recycle) the “Alarm Log” to make room for newer alarm records.<Table Appx F-1> [Default Value: Alarm Log Length = 1000]

- Event Log Save – for deciding if the previous recorded Access Event Log is required to be saved. If the Event/ Alarm Log Save = 0, it means the data is not saved nor displayed. If Event/ Alarm log Save = 1, the date file will be saved and displayed. Please see the <Table Appx F-1> [Default Value: Event Log Save = 0]
- Alarm Log Save – when this window reappear, need to set if need previous record to be saved and then to be displayed or not. If Event/ Alarm Log Save = 0, means data not being saved nor displayed.. If Event/ Alarm log Save = 1, means the data will be stored and displayed. Please refer to <表 Appx F-1> [Default Value: Alarm Log Save = 0]
- Path –
- Drive –
- Capture Line 1 – setting MEGAsys Software system, the first line wording content.  
[Default Value: Capture Line 1 = [Intelligent all-in-one Security CCTV & Alarm system]]
- Caption 1 Color – define the color of the first line – to be black.  
[Default Value: Capture 1 Color = &H00000000&]
- Capture Line 2 – define MEGAsys, the second line wording content  
[Default Value: Capture Line 2 = [Access control management system]]
- Capture 2 Color – define the second line color, to be black  
[Default Value: Capture 2 Color = &H00000000&]
- Capture BMP – to define the MEGAsys system front page (in between the LOGO (LOGO on Capture Line 1 & line 2), preset of MEGAsys is with LOGO. Don't input the LOGO path.  
If the user need to change the LOGO, enter the path of the NEW LOGO. If no path of the LOGO has been entered, means the MEGAsys LOGO will be kept. [Default Value: Nil]
- RPU Address Offset – This is to set the RPU offset of the PTZ camera functions  
If RPU Address Offset = 0, means to allow the use of the PTZ camera offset  
If RPU Address Offset = 1, means do not allow use of the PTZ camera offset  
Please refer Chapter 4 section 4.1 (1) for the function introduction of setting this function.  
[Default Value: RPU Address Offset = 0]
- Monitor SYNC – This is to set the MEGAsys system and the matrix clock SYNC function, how long for a time SYNC  
Starting from the first time entering into the MEGAsys system time begin to calculate, how long does it take to do a synchronization of time with the monitor, base on the Monitor SYNC entry time.  
From the first value of 3600 second, before any changes made, every SYNC will be at an interval of 3600 sec, the system will communication with the matrix once. First time will begin from time of entry into the MEGAsys system. [Default Value: Monitor SYNC = 3600 (in second)]
- Demo Video – this is for the usage of the Demo Kit, providing a similar signal like the Video Capture Card video signal. If the value is set at “1”, means activate this function, and if it is “0”, means function is turn off.  
[Default Value: Demo Video = 0]
- Video Format – set MEGAsys system video signal format as PAL & NTSC.  
[Default Value: Video Format = PAL]
- Access Control Database Type –
- C.G.Lib Path – is a function for matrix to display camera label/name.  
When this is in use MEGAsys will send “FTLIB.FON 和 JTLIB.FON” word file to the matrix which will display the camera label/name [Default Value: C.G.Lib Path = c:\megasys\font\ftlib.fon]

FTLIB.FON – BIG5 traditional Chinese

JTLIB.FON – GB simplified Chinese

If the system use BIG5version, this file path should be “\ftlib.fon”, if it is GBversion, path should be “\jtlib.fon”.

- Macro High Priority –

- Matrix Type –
- Matrix Clock Sync –



#### Change the Access Control & Alarm System Preset Values

[System]:

|                    | <u>Preset value</u> | <u>Value after changed</u> | <u>Notes</u>   |
|--------------------|---------------------|----------------------------|--|
| Event Log Length = | 1000                | 3000                       | This parameter is for input of how many Queue into the system, clear off when Queue is full. There is basically no limit for the value, but it is best to use 1000, for this value will not affect the system operation & speed. Too high a value may affect the system and waste the resources of RAM, resulting an unsmooth run. |
| Alarm Log Length = | 1000                | 3000                       |  |
| Event Log Save =   | 0                   | 1                          | If the value “0” means no storage, when alarm system event window, the previous date will not be displayed.<br>If value is “1”, means the data has been stored, when reopening the alarm event window or the access alarm window, the previous as well as the new data will be displayed.  |
| Alarm Log Save =   | 0                   | 1                          |  |

<Table Appx F-1>



#### Change System Front Page Name, Color & Icon

[System]:

|                   | <u>Preset value</u>                      | <u>Value after changed</u> | <u>Notes</u>   |
|-------------------|--|----------------------------|--|
| Caption Line 1 =  | Intelligent all-in-one CCTV alarm system | (Other name)               | The first line on the MEGAsys System software (above the version number)       |
| Caption 1 Color = | &H00000000&                              | &H000000FF&                | Color of the Front page first line   |
| Caption Line 2 =  | Access Control Management System         | (Other name)               | The second line on the MEGAsys System software (above the version number)      |
| Caption 2 Color = | &H00000000&                              | &H0000FFFF&                | Color of the Front page second line  |
| Caption BMP =     | Nil Path Name (Default)                  | C:\MEGAsys\ABC.BMP         | Change MEGAsys system software front page icon. (turn it into ABC.BMP format). |

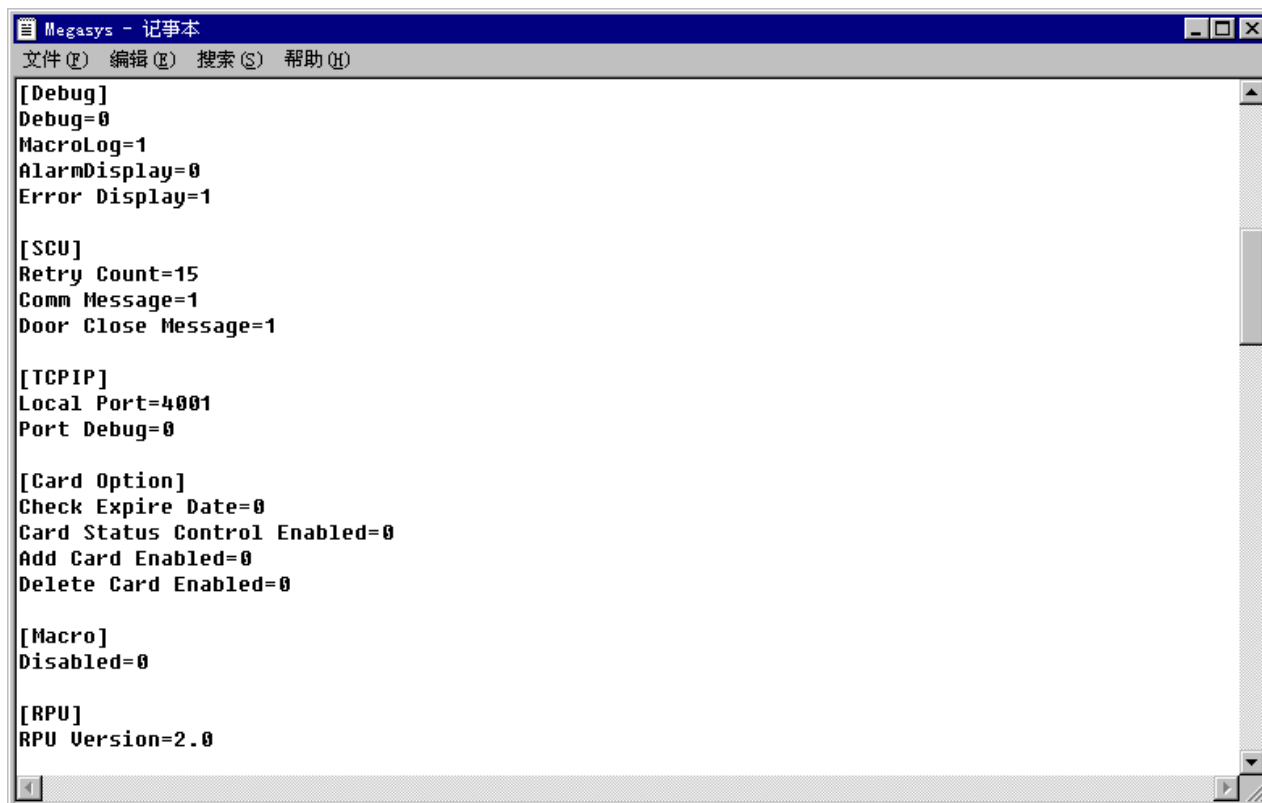
<Table Appx F-2>

- ❖ After the data has be changed, please remember to save it into the file before closing the file, otherwise there is risk of loosing the data after file is closed.
- ❖ Press MEGAsy.inipop-up window for file save.
- ❖ After closing the MEGAsys.ini file you must reopen the MEGAsys software system before executing any new changes.
- ❖ Please refer to <Appx F-3> for Caption 1 Color/ Caption 2 Color—to define color code numbers.
- ❖ All changed Caption BMP icons, user must use “.bmp” file for his own photos.



|   |                    |  |           |
|---|--------------------|--|-----------|
| Caption 1 Color =   00 – Red Color (00~FF)<br>&H00000000H   00 – Green Color (00~FF)<br>00 – Blue Color (00~FF)<br>00 – Grey Scale (80)<br><br>❖ Grey tone is at the last two digits(&80000000&),<br>Range 01~18° | Caption Color Code |  | Color     |
|   | &H00000000&        |  | black     |
|   | &H00000080&        |  | Brown red |
|   | &H000000FF&        |  | Red       |
|   | &H0000FF00&        |  | green     |
|   | &H00FF0000&        |  | Blue      |
|   | &H80000000&        |  | grey      |

&lt;Table Appx F-3&gt;



## [Debug] (\*\*):

- Debug = 0 \*\*
- MacroLog = 0 \*\*
- Alarm Display = 0 \*\*
- Error Display = 0 \*\*

## [SCU]:

- Retry Count – This is to set how many times the communication connection cannot be linked up before determining the line controller is “off-line”, Pls refer <Appx F-4> [Default Value: Retry Count = 15]
- Comm Message – This is to set if the status of the communication controller need to be displayed. Please refer< Appx F-4> [Default Value: Comm Message = 1]
- Door Close Message –This is to set if the door access status need to be displayed. Please refer<Appx F-4>. [Default Value: Door Close Message = 1]

## [TCPIP]:

- Local Port – \*\* [Default Value: Local Port = 4001]
- Port Debug – \*\* [Default Value: Port Debug = 0]

# MEGAsys – Server

## Graphic Alarm Display System Software Programming Manual

### [Card Option]:

- Check Expire Date – This is to set if need to stop using expired access cards. Please refer < Appx F-5>.  
[Default Value: Check Expire Date = 0]
- Check Status Control Enabled – This is to set if need to stop using expired access cards. < Appx F-5>.  
[Default Value: Check Expire Date = 0]
- Add Card Enabled – This is to set if need to stop using expired access cards. < Appx F-5>.  
[Default Value: Check Expire Date = 0]
- Delete Card Enabled – This is to set if need to stop using expired access cards. < Appx F-5>.  
[Default Value: Check Expire Date = 0]

### [Macro]:

- Disabled – This is to set if to use all the Macro commands or not.  
Disabled = 0, when alarm executed, MEGAsys will activate and execute all the Macro commands  
Disabled = 1, when alarm executed, MEGAsys stop to execute all the Macro commands [Default Value: Disabled = 0]

### [RPU]

- RPU Version – set MEGAsys to RPU version.  
[Default Value: RPU Version = 2.0]

## Change the settings of SCU

SCU – Site Controller Unit, i.e. MEGAsys system receiving ET-121 controller signal.

### [SCU]:

|                      | <u>Preset value</u> | <u>Change to</u> | <u>Remarks</u>  |
|----------------------|---------------------|------------------|---|
| Retry Count =        | 15                  | 20               | When continue not receiving response, disconnect the controller automatically<br>If repeat 15 times do not receive any response will automatically execute the (Offline). No limit of number of times, but do not exceed 15 times.            |
| Comm Message =       | 1                   | 0                | To display the status of (ET-121) controller e.g. online of offline/<br>“1” – display status<br>“0” – do not display status.  |
| Door Close Message = | 1                   | 0                | To display on MEGAsys the connection status with the door controllers.<br>“1” – display door status. E.g. door locked? Door close time, door number, closing time and door location number and name...etc<br>“0” – do not display door status |

<Table Appx F-4>

## Read card data

### [Card Option]:

|                     | <u>Preset value</u> | <u>Changed value</u> | <u>Note</u>   |
|---------------------|---------------------|----------------------|---|
| Check Expire Date = | 1                   | 0                    | Stop using the expired cards<br>“1” – stop using expired cards, when card exceed its card valid date.<br>“0” – continue to allow use of expired cards |

<Table Appx F-5>

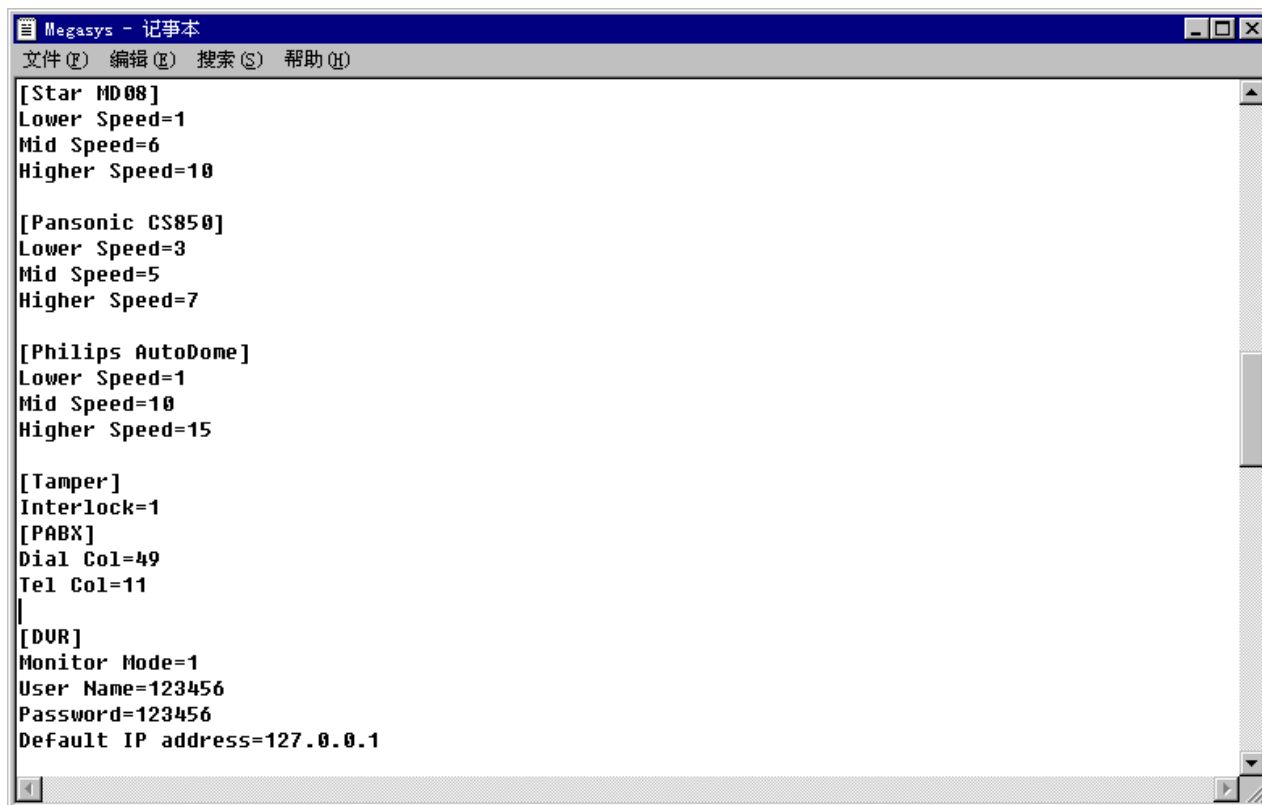


## Network data

[TCPIP]:

|              | <u>Preset value</u> | <u>Changed value</u> | <u>Note</u> |
|--------------|---------------------|----------------------|-------------|
| Local Port = | 4001                | 5000                 |             |
| Port Debug = | 0                   | 1                    |             |

&lt;Table Appx F-6&gt;



[Star MD08]:

- The speed range of this fast dome is between 01 & 10 (01 is slowest, 10 is fastest) User can self select 3 speed value within this range, pls refer < table Appx F-7>.

[Panasonic CS850]:

- The speed range of this fast dome is between 01 & 07 (01 is slowest, 07 is fastest) User can self select 3 speed value within this range, pls refer < table Appx F-8>

[Philips Auto Dome]:

- The speed range of this fast dome is between 01 & 15 (01 is slowest, 15 is fastest) User can self select 3 speed value within this range, pls refer < table Appx F-9>

[Tamper]

- Interlock –

[PABX]

- Dial Col –
- Tel Col –

## [DVR]

- Monitor Mode – This is to set if use the “DVR Setup” function or not. If use “DVR setup” function, set the setting as “1”; if not set it as “0” .  
[Default Value: Monitor Mode = 1]
- User Name – this User Name is used when turning on the DVR Video Example: during video playback  
[Default Value: User Name = 123456]
- Password – this Password is used when turning on DVR Video Example: during video playback  
[Default Value: Password = 123456]
  - ❖ *Before changing the DVR user Name and password, the user must first setup the User Name Password within the DVR system.*
- Default IP Address – This machine’s original address. When MEGAsys system being started , this address will also be added to the MDVR Control for its use.  
[Default IP Address = 210.17.176.149]

**Speed Dome PTZ data**

[Star MD08]:

|                | <u>Preset value</u> | <u>Value after changed</u> | <u>Notes</u>             |
|----------------|---------------------|----------------------------|--------------------------|
| Lower Speed =  | 1                   | 1                          | Set to the slowest speed |
| Mid Speed =    | 6                   | 5                          | Set to the medium speed° |
| Higher Speed = | 10                  | 9                          | Set to the fastest speed |

&lt;Table Appx F-7&gt;

- ❖ *Star MD08 fast dome speed rage is from 01 to 10°*

[Panasonic CS850]:

|                | <u>Preset value</u> | <u>Value after changed</u> | <u>Notes</u>             |
|----------------|---------------------|----------------------------|--------------------------|
| Lower Speed =  | 1                   | 1                          | Set to the slowest speed |
| Mid Speed =    | 5                   | 4                          | Set to the medium speed  |
| Higher Speed = | 7                   | 7                          | Set to the fastest speed |

&lt;Table Appx F-8&gt;

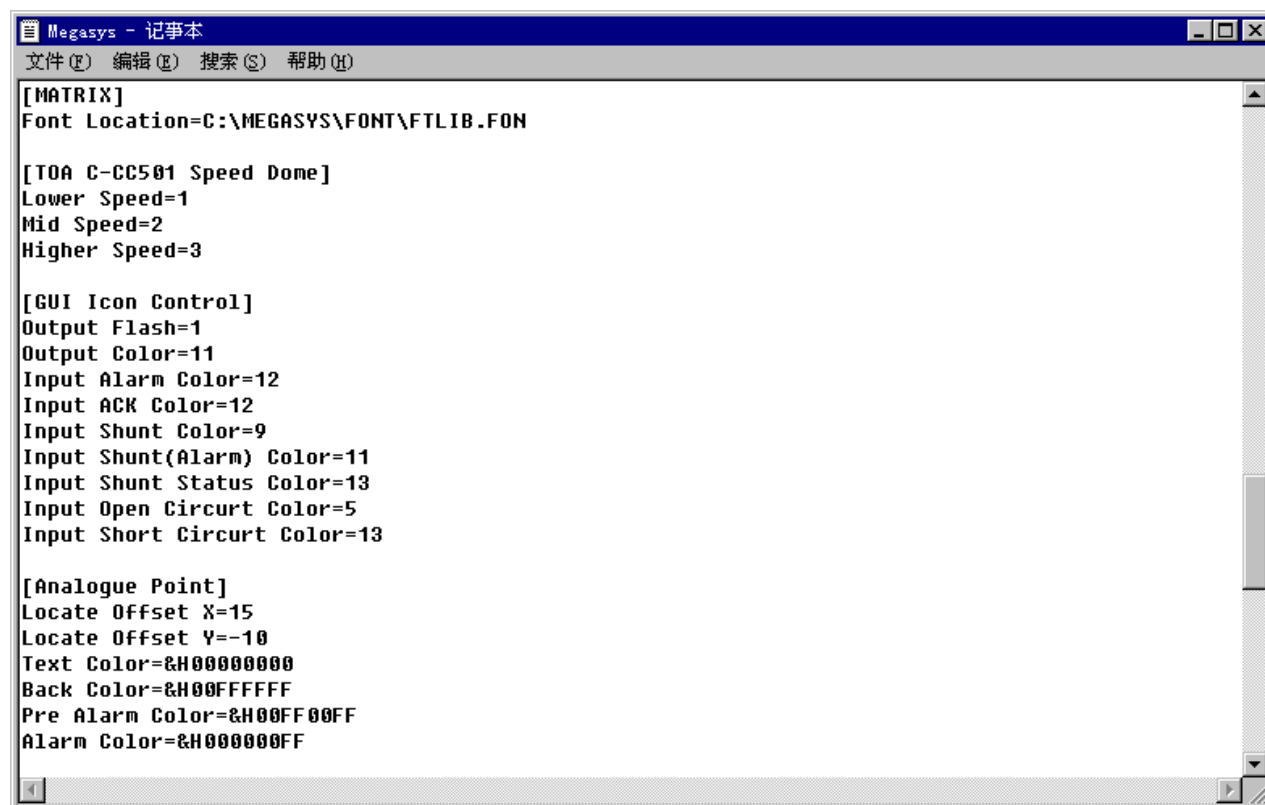
- ❖ *Panasonic CS850 fast dome speed rage is 01 to 07°*

[Philips Auto Dome]:

|                | <u>Preset value</u> | <u>Value after Changed</u> | <u>Notes</u>             |
|----------------|---------------------|----------------------------|--------------------------|
| Lower Speed =  | 1                   | 1                          | Set to the slowest speed |
| Mid Speed =    | 10                  | 7                          | Set to the medium speed  |
| Higher Speed = | 15                  | 14                         | Set to the fastest speed |

&lt;Table Appx F-9&gt;

- ❖ *Philips Auto Dome speed rage is 01 to 15°*



## [Matrix]

- Font Location – it is for the use or Matrix camera label  
When the system need, **MDVR** will deliver this “FTLIB.FON” 和 “JTLIB.FON” word file to the matrix, which will display the camera label as [Default Value: Font Location = C:\MEGASYS\FONT\FTLIB.FON]

FTLIB.FON – BIG5 is traditional  
Chinese character file  
JTLIB.FON – GB is simplified  
Chinese character file

If file is BIG5 version, this path of word file is “FTLIB.FON”, if file is GBversion, the word file path should be “JTLIB.FON”。

## [TOA C-CC501 Speed Dome]

- This speed dome camera speed is between 01 & 03, slowest as 01 & fastest as 03

## [GUI Icon Control]:

- Output Flash – control the flashing function of the output function  
When Output Flash = 0, it means flashing is being turned off. Example: when certain point has been opened, then the output point icon will change color to (yellow \* blue) but not flashing.  
When output Flash = 1, it means flashing is being turn on. Example: when certain point output are being open, the output icon on the map will change to (yellow\*blue) but flashing continuously. [Default Value: Output Flash = 1]
- Output Color – to set the output point when being opened, the color display (please refer to <Table Appx F-10> for the color number code. [Default Value: Output Color = 11]
- Input Alarm Color – to set the color when alarm input occur (please refer to <Table Appx F-10> for the color number code [Default Value: Input Alarm Color = 12]
- Input ACK Color – to set the color when being acknowledged, (please refer to <Table Appx F-10> for the color number code [Default Value: Input ACK Color = 12]

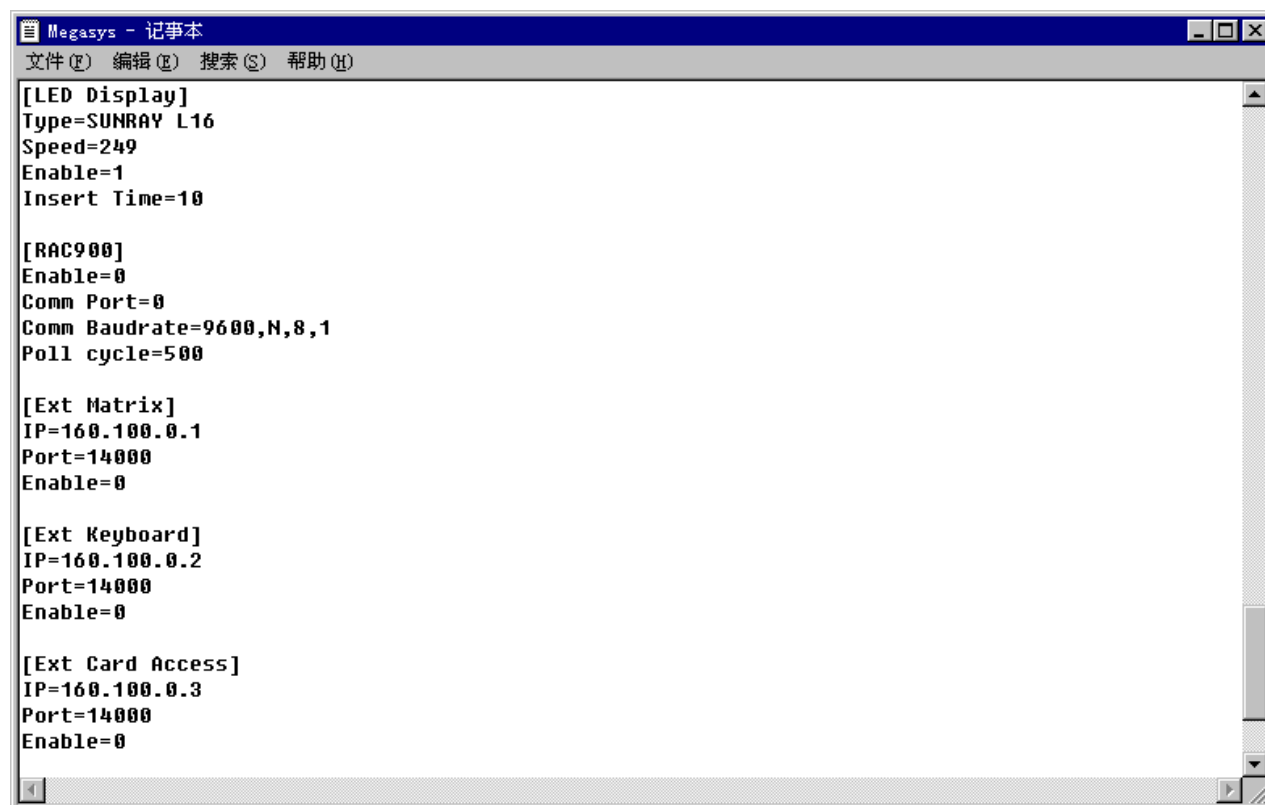
- Input Shunt Color – to set the input point as shunt mode and display the color. For color code, pls refer< Appx F-10> [Default Value: Input Shunt Color = 9]
- Input Shunt <Alarm> Color –to set the input point as secure mode and display the color. For color code, pls refer < Appx F-10> [Default Value: Input Shunt <Alarm> Color = 11]
- Input Shunt Status Color – [Default Value: Input Shunt Status Color = 13]
- Input Open Circuit Color – to set the input point when circuit is open the color to be displayed . Pls refer color code< Appx F-10> [Default Value: Input Open Circuit Color = 5]
- Input Short Circuit Color –to set the input point when circuit is short the color to be displayed . Pls refer color code< Appx F-10> [Default Value: Input Short Circuit Color = 13]

| Number | Color   | Number | Color         |
|--------|---------|--------|---------------|
| 0      | Black   | 8      | Gray          |
| 1      | Blue    | 9      | Light Blue    |
| 2      | Green   | 10     | Light Green   |
| 3      | Cyan    | 11     | Light Cyan    |
| 4      | Red     | 12     | Light Red     |
| 5      | Magenta | 13     | Light Magenta |
| 6      | Yellow  | 14     | Light Yellow  |
| 7      | White   | 15     | Bright White  |

&lt;Table Appx F-10&gt;

[Analogue Point]:

- Locate Offset X – to set the AI reading from horizontal direction° [Default Value: Locate Offset X = 15]
- Locate Offset Y –to set the AI reading from vertical direction° [Default Value: Locate Offset Y = -10]
- Text Color – to set normal reading, AI read color -- black [Default Value: Text Color = &H00000000]
- Back Color – to set the background color of text[Default Value: Back Color = &H00FFFFFF]
- Pre Alarm Color – to set the pre-alarm color as pink [Default Value: Pre Alarm Color = &H00FF00FF]
- Alarm Color – to set the alarm color as red [Default Value: Alarm Color = &H000000FF]
- Icon Pre Alarm Color – to set the pre-alarm icon color as pink [Default Value: Icon Pre Alarm Color = &H00FF00FF]
- Icon Alarm Color –to set the alarm icon color as red [Default Value: Icon Alarm Color = &H000000FF]



### [LED Display]

- Type –
- Speed –
- Enable –
- Insert Time –

### [RAC900]

- Enable – if setting is to use ET-RAC900 device. If the Enable value is “0”, it will display  
[Default Value: Enable = 0]
- Comm Port – [Default Value: Comm Port = 0]
- Comm Baud-rate – [Default Value: Comm Baud-rate = 9600,N,8,1]
- Poll Cycle – [Default Value: Poll Cycle = 500]

### [Ext Matrix]

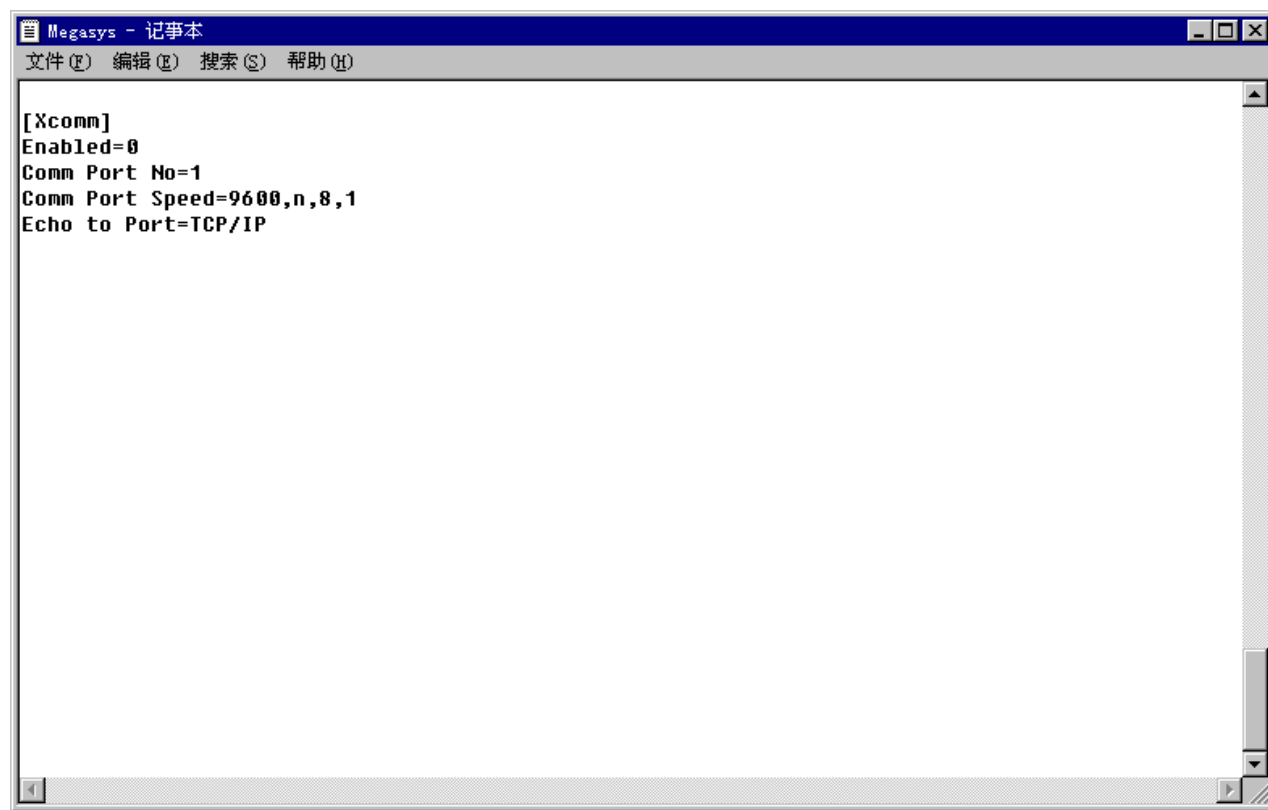
- IP –
- Port –
- Enable –

### [Ext Keyboard]

- IP –
- Port –
- Enable –

### [Ext Card Access]

- IP –
- Port –
- Enable –



[Xcomm]

- Enabled –
- Comm Port No –
- Comm Port Speed –
- Echo to Port –

### Note :

**\*\*** – means the user cannot change any data/setting of these section, they can only be changed by the original equipment manufacturer.

### Note:

- (1) RPU Address Offset

MEGAsys system can support up to 640 cameras at the maximum, if portion of the 640 cameras belongs to Pan Tilt Zoom cameras, then the maximum is to support 256 PTZ cameras. But the entire system does not need all PTZ cameras, these PTZ cameras will be placed at the first of the 256 locations. Please refer to the diagram below.

