# HUSS-E2X HUSS-E4X HUSS-E8X

# **Digital Video Encoder**

**User Manual** 

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### Welcome

Thank you for purchasing our VIDEO ENCODER!

Please refer to this user manual which will take the installation and operation of HUSS-E8X for example. And all operations about front panel are the functions of HUSS-E2X and HUSS-E4X.

Here you can find information about this series VIDEO ENCODER's features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

### Important Safeguards and Warnings

#### 1. Electrical safety

All installation and operation here should conform to your local electrical safety codes.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

#### 2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

#### 3. Installation

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

#### 4. Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5. Environment

The VIDEO ENCODER should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

#### 6. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

#### 7. Lithium battery

Improper battery use may result in fire, explosion, or personal injury!

When replace the battery, please make sure you are using the same model.

# **1 FEATURES AND SPECIFICATIONS**

#### **Overview**

This series product is an excellent digital monitor product designed for security field. It adopts embedded Linux OS to maintain reliable operation. Popular H.264 compression algorithm and G.711 audio compression technology realize high quality, low bit stream. Unique frame by frame play function is suitable for detail analysis. It has various functions such as record, playback, monitor at the same time and can guarantee audio video synchronization. This series product has advanced technology and strong network data transmission function.

This series device adopts embedded design to achieve high security and reliability. It can work in the local end, and at the same time, when connecting it to the professional surveillance software (HUS or HDCS), it can connect to security network to realize strong network and remote monitor function.

This series product can be widely used in various areas such as banking, telecommunication, electric power, interrogation, transportation, intelligent resident zone, factory, warehouse, resources, and water conservancy.

#### **Features**

This series product has the following features:

Real-time monitor

It has VGA port, HDMI port (recommend) and analog output port (BNC). You can use monitor (recommend using 800\*600 monitor while connect to BNC port) or displayer to realize surveillance function.

System supports VGA/HDMI output at the same time.

Storage function

Special data format to guarantee data security and can avoid vicious data modification.

Compression format

Support multiple-channel audio and video. An independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronization.

Backup function

Support backup operation via USB port (such as flash disk, portable HDD, burner).

Client-end user can download the file to local HDD to backup via network.

Record playback function

Support each channel real-time record independently, and at the same time it can support to search, forward play, network monitor, record search, download and etc.

Support various playback modes: slow play, fast play, backward play and frame by frame play.

Support time title overlay so that you can view event accurate occurred time

Support specified zone enlargement.

Network operation

Support network remote real-time monitor, remote record search and remote PTZ control.

Alarm activation function

Several relay alarm outputs to realize alarm activation and on-site light control.

The alarm input port and output has the protection circuit to guarantee device safety.

Communication port

RS485 port can realize PTZ control.

RS232 connect to PC COM to upgrade system and realize maintenance, and matrix control.

Standard Ethernet port can realize network access function.

PTZ control

Support PTZ decoder via RS485.

Support various decode protocols to allow the PTZ to control the speed dome.

Intelligent operation

Mouse operation function

In the menu, support copy and paste setup function

• UPNP

It is to establish the mapping relationship between the LAN and the WAN via the UPNP protocol.

Slight function differences may be found due to different model.

# **Specifications**

	Parameter	HUSS-E2X	HUSS-E4X	HUSS-E8X
System	Main Processor	High-performance industrial embedded micro controller		
	OS	Embedded LINUX		
	System Resources	Multiplex operations: Mu and network operation si	Itiple-channel record, mult multaneously	iple-channel playback
	Interface	User-friendly graphical u	user interface	
	Input Devices	Front panel, USB mouse	e, remote control	
	Input Method	Arabic number, English (optional)	character, donation and e	xtension Chinese
	Shortcut Function	Copy/paste operation, USB mouse right-key shortcut menu, double cli USB mouse to switch screen.		cut menu, double click
Compression Standard	Video Compression	H.264		
	Audio Compression	G.711A		
	Video Input	2-CH composite video input: (NTSC/PAL) BNC (1.0VP-P B75Ω)	4-CH composite video input: (NTSC/PAL) BNC (1.0VP-P, B75Ω)	8-CH composite video input: (NTSC/PAL) BNC (1.0VP-P, B75Ω)
		1-ch PAL/NTSC, BNC (1	.0 VP-P, 75Ω) composite	video signal output.
		1-ch VGA output.		
Video	Video Output	1-ch HDMI output.		
monitor		1-ch matrix output.		
		Support VGA/HDMI vide	o output at the same time.	
	Video Standard	PAL (625 line, 50f/s), NT	SC (525 line, 60f/s)	

Record Speed	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel		
Video Partition	1/2 windows(Optional) 1/4 windows 1/4/8/9 windows		
Monitor Touring	Support monitor tour functions such as alarm, motion detection, and schedule auto control.		
	PAL/NTSC		
	Real-time monitor:		
	D1 704×576/704×480		
	Playback channel 1/9.		
	D1 704×576/704×480		
	HD1 352× 576/352×480		
	2CIF 704×288/704×240		
Resolution	CIF 352×288/ 352×240		
(PAL/NTSC)	QCIF 176×144/176×120		
	Support dual streams.		
	Extra stream resolution:		
	D1 704×576/704×480		
	HD1 352× 576/352×480		
	2CIF 704×288/704×240		
	CIF 352×288/ 352×240		
	QCIF 176×144/176×120		
Image Quality	6-level image quality (Adjustable)		
Privacy mask	Support one privacy mask of user-defined size in full screen.		
	Support max 4 zones.		
Image Information	Channel information, time information and privacy mask zone.		
Channel Lock	Cover secret channel with black screen though system is encoding normally.		
	Screen-lock function to prevent unauthorized user seeing secret video.		

### FEATURES AND SPECIFICATIONS

	Channel Information	Channel name, recording motion detection status a		tus, video loss status and left of display screen.
	Color Configuration	Hue, brightness, contras	t, saturation and gain se	tup for each channel.
Audio	Audio Input	2-ch 200-2000mv 10KΩ(BNC)	4-ch 200-2000mv 10KΩ(BNC)	4-ch 200-2000mv 10KΩ (RCA)
	Audio Output	1-ch audio output 200-3	000mv 5KΩ(BNC)	1-ch audio output 2000- 3000mv 5KΩ(RCA)
	Bidirectional Audio	- 1-ch audio talk input, 1-ch audio talk output 200-3000mv 5K Ω (BNC)		1-ch audio talk input, 1- ch audio talk output 200- 3000mv 5KΩ(RCA)
	Hard Disk	2 built-in SATA port. Sup	oport 2 HDDs.	
Hard disk	Hard Disk Occupation	Audio: PCM 28.8MByte/h Video: 56-900MByte/h		
Record and playback	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording, motion detection& alarm recording Priority: Manual recording> alarm recording>motion detection recording>schedule recording.		
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)		
	Recording circle Way	When hard disk is full, sy	ystem can overwrite prev	vious video file.
	Record Search	Various search engines such as time, type and channel.		
	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.		
	Various File Switch Ways	Can switch to previous or next file or any file in current play list. Can switch to file on other channel of the same time. (If there is a file) Support file continuous play, when a file is end system auto plays the next file in the current channel		
	Multi-channel Playback	There is 1/4/9-channel p (It may vary due to differ	•	

	Window Zoom	Switch between self-adaptive screen/full screen when playback	
	Partial Enlargement	When in one-window full-screen playback mode, you can select any zone to activate partial enlargement function.	
Backup function		HDD backup	
Iuncuon	Backup Mode	Support peripheral USB backup device. (Flash disk, portable disk, USB burner and etc.)	
		Support peripheral ESATA backup device.	
		Support network download and backup	
		View monitor channel remotely.	
Network		VIDEO ENCODER configuration through client-end and web browser	
Function		Upgrade via client or browser to realize remote maintenance.	
		View alarm information such as external alarm, motion detection camera masking and video loss via client.	
	Network control	Support network PTZ lens control	
		File download backup and playback	
		Multiple devices share information via corresponding software such as professional surveillance software (HUS or HDCS)	
		Duplex transparent COM	
		Network alarm input and output	
		Bidirectional audio.	
	Motion	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones.	
Motion	Detection	Various sensitivity levels.	
Detection and Alarm		Alarm can activate record or external alarm or screen message prompt.	
	Video Loss	Alarm can activate external alarm or screen message prompt.	
	External Alarm	Support record activation function or activate external alarm or screen message in specified period.	

### FEATURES AND SPECIFICATIONS

	Manual Alarm Control	Enable or disable alarm input channel Support analog alarm signal to specific alarm output channel.		
	Alarm Input	4-ch alarm input (You can set normal open or normal close type to select the alarm8-ch alarm input (You can set normal open or normal close type to select the alarm 		
	Alarm Output	3 channel relay output, including one controllable DC +12V output port.		
	Alarm Relay	30V DC 2A, 125V AC 1A (activation alarm)		
	USB Interface	2 USB 2.0 ports.		
Interface	Network connection	RJ45 10M/100M/1000M self-adaptable Ethernet port		
	RS485	PTZ control port Support various PTZ control protocols.		
	RS232	Ordinary COM (Debug),keyboard connection(Reserved) and transparent serial port(COM input and output via network )		
System Information	Hard Disk Information	Display HDD current status		
	Data Stream Statistics	Data stream statistics for each channel (in wave mode)		
	Log statistics	Backup to 1024 log files. Support various search engines such as time and type.		
	Version	Display version information: channel amount, alarm input and output amount, system version and release date.		
	On-line user	Display current on-line user		
User Management	User Management	Multi-lever user management; various management modes Integrated management for local user, serial port user and network user. Configurable user power.		
		Support user /group and its corresponding rights modification. No limit to the user or group amount.		

	Password	Password modification Administrator can modify other user's passw	ord.
	Authentication	Account lock strategy Five times login failure in thirty minutes may	result in account lock.
Upgrade		Web browser, client-end and update tool.	
		Password login protection to guarantee safety	
Login, Logout	and Shutdown	User-friendly interface when login. Provide the following options: Logout /shutdown/ restart.	
		Right authentication when shut down to make sure only those proper people can turn off VIDEO ENCODER	
	Power	DC12V/5A	
General Parameter	Power Consumption	≤25W (Exclude HDD)	
	Working Temperature	0°C-+55°C	
	Working Humidity	10%-90%	
	Air Pressure	86kpa-106kpa	
	Dimension	375×285×45mm	440×300×42mm
	Weight	1.5-2.5KG(Exclude HDD)	
	Installation Mode	Desktop installation	Desktop/rack installation

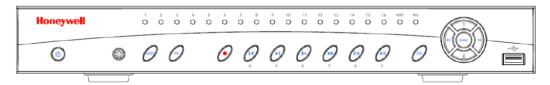
# **2 Overview and Controls**

This section provides information about front panel and rear panel. When you install this series VIDEO ENCODER for the first time, please refer to this part first.

### **Front Panel**

The front panel is shown as in Figure 2-1 and Figure 2-2.

Figure 2-1 the Front Panel of HUSS-E2X/HUSS-E4X



#### Figure 2-2 the Front Panel of HUSS-E8X





All operations about front panel are the function of HUSS-E2X and HUSS-E4X. The front panel of HUSS-E8X only has power button. Please refer to the following sheet for front panel button information.

Name	lcon	Function
Power button	ø	Power button, press this button for three seconds to boot up or shut down VIDEO ENCODER.
USB port	ŝ	To connect USB storage device, USB mouse.
		Activate current control, modify setup, and then move up and down.
Up/1 Down /4	▲ ▼	Increase/decrease numeral.
DOWIT /4		Assistant function such as PTZ menu.
		In text mode, input number 1/4
Left/2		Shift current activated control,
Right/3	< ►	During playback, click these buttons to control playback bar.
		In text mode, input number 2/3
		Confirm current operation
Enter	ENTER	Go to default button
		Go to menu
ESC	ESC	Go to previous menu, or cancel current operation.
200		During playback, click it to restore real-time monitor mode.
Shift	Shift	In textbox, click this button to switch between numeral, English (Small/Capitalized), donation and etc.
		One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		In PTZ menu, shift PTZ control menu.
		Backspace function: in numeral control or text control, it can delete the previous character before the cursor.
Assistant	FN	In motion detection setup, work with FN and direction keys to realize setup.
		In preview mode, click it for three seconds to switch between TV.VGA. For HD1 series VIDEO ENCODER, there are three modes: TV, VGA, VGA_LCD (60Hz LED output).
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		Realize other special functions.
Record	•	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.

#### **Overview and Controls**

		In live view, press this key to enter Search interface. Login dialog may appear if user is not logged in.
		In normal playback click this button to pause playback.
Play/Pause/5	▶	In reverse playback or pause mode, click this button to resume normal playback.
		In live view, press this key to enter Search interface.
		In text mode, input number 5
Reverse/Pause/6		In normal playback or pause mode, click this button to reverse playback
Reverse/r ause/o		In reverse playback, click this button to pause playback.
		In text mode, input number 6
Fast play/7	**	Various fast speeds and normal playback.
i dot play, i		In text mode, input number 7
Slow play/8	Þ	Multiple slow play speeds or normal playback.
		In text mode, input 8
	▶	In playback mode, playback the next video
Play Next//9		In menu setup, go to the bottom of the dropdown list.
		In text mode, input number 9
Play previous/0		In playback mode, playback the previous video
		In text mode, input number 0
Network abnormal indicator	Net	Network error occurs or there is no network connection, the light becomes red to alert you.
HDD indicator	HDD	Indicates if the HDD is error or full.
Channel indicator	1-8	Indicates whether the system is recording or not. It turns on when the system is recording.
IR Receiver		Receives the signal from the remote controller.

## **Rear Panel**

This series VIDEO ENCODER rear panel is shown as below. See figure below.



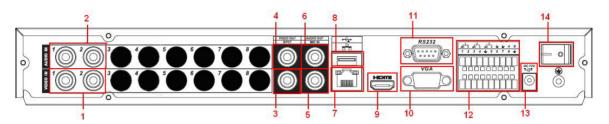


Figure 2-4 the Rear Panel of HUSS-E4X

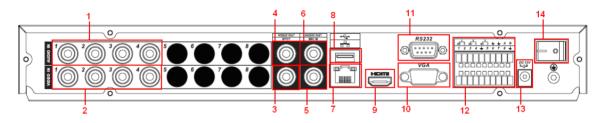
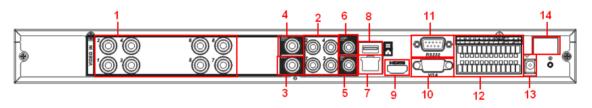


Figure 2-5 the Rear Panel of HUSS-E8X



Please refer to the following sheet for detailed information.

No	Description
1	Video input
2	Audio input
3	Video spot output
4	Video CVBS output
5	Bidirectional talk input
6	Audio output

#### **Overview and Controls**

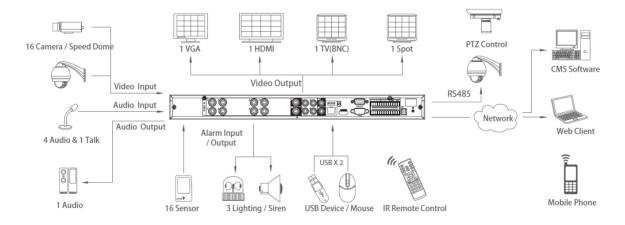
7	Network port
8	USB port
9	HDMI port
10	Video VGA output
11	RS232 port
12	Alarm input/alarm output/RS485 port
13	Power socket
14	GND port
15	On/off button

When connect the Ethernet port, please use crossover cable to connect the PC and use the straight cable to connect to the switcher or router.

### **Connection Sample**

Please refer to Figure 2-6 for connection sample (take 8-ch for example).

#### **Figure 2-6 Device Connection**

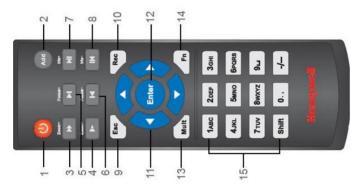


### **Remote Control**

The remote control interface is shown as in Figure 2-7.

Please note remote control is not our standard accessory and it is not included in the accessory bag.

#### Figure 2-7 Remote Controller



Please refer to the following sheet for detailed information.

No.	Name	Function
1	Power button	Click it to boot up or shut down the device.
2	Address	Click it to input device number, so that you can control it.
3	Forward	Various forward speeds and normal speed playback.
4	Slow play	Multiple slow play speeds or normal playback.
	Next record	In playback mode, playback the next video.
5		
	Previous record	In playback mode, playback the previous video.
6		
7	Play/Pause	In pause mode, click this button to realize normal playback.
		In normal playback click this button to pause playback.
		In real-time monitor mode, click this button to enter video search

		menu.
8	Reverse/pause	Reverse playback pause mode, click this button to realize normal playback.
		In reverse playback click this button to pause playback.
9	Cancel	Go back to previous menu or cancel current operation (close upper interface or control)
10	Record	Start or stop record manually
		In record interface, working with the direction buttons to select the record channel.
		Click this button for at least 1.5 seconds, system can go to the Manual Record interface.
11	Direction keys	Switch current activated control, go to left or right.
		In playback mode, it is to control the playback process bar.
		Aux function(such as switch the PTZ menu)
12	Confirm /menu key	go to default button
		go to the menu
13	Multiple-window switch	Switch between multiple-window and one-window.
14	Auxiliary key	In 1-ch monitor mode: pop up assistant function: PTZ control and Video color.
		Switch the PTZ control menu in PTZ control interface.
		In motion detection interface, working with direction keys to complete setup.
15	0-9 number key	Input password, channel or switch channel.

#### **Mouse Control**

mouse

Left click System pops up password input dialogue box if you have not logged in.

In real-time monitor mode, you can go to the main menu.

When you have selected one menu item, left click mouse to view menu content.

Implement the control operation.

Modify checkbox or motion detection status.

Click combo box to pop up drop down list

In input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalized). Here " $\leftarrow$ " stands for backspace button. " $\_$ " stands for space button.

In English input mode: "\_"stands for input a backspace icon and " $\leftarrow$ " stands for deleting the previous character.

กๆอาบบาากภาพอ qwertyuiop/ **INURGED A CONTRUE** asdfghjkl:Enter Enter z x c v b n m , . Shift IZIXICIVIBINMI. Shift

In numeral input mode: " \_" stands for clear and "  $\leftarrow$  " stands for deleting the previous numeral.



When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input"/", or you can click the numeral in the on-screen keyboard directly.

#### !**?@#\$%^&**\*-\_\_

Double left Implement special control operation such as double click one item in the file list to click mouse playback the video.

In multiple-window mode, double left click one channel to view in full-window.

Double left click current video again to go back to previous multiple-window mode.

#### **Overview and Controls**

Right clickIn real-time monitor mode, pops up shortcut menu: one-window, four-window,mousePan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu.

Among which, Pan/Tilt/Zoom and color setting applies for current selected channel.

If you are in multiple-window mode, system automatically switches to the corresponding channel.



Exit current menu without saving the modification.

Press middle button	In numeral input box: Increase or decrease numeral value.
	Switch the items in the check box.
_	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

#### Virtual Keyboard & Front Panel

#### Virtual Keyboard

The system supports two input methods: numeral input and English character (small and capitalized) input.

Move the cursor to the text column, the text is shown as blue, input --button pops up on the right. Click that button to switch between numeral input and English input (capitalized and small), Use  $\blacktriangleleft$ ,  $\blacktriangleright$  button to shift between small character and capitalized character.

#### **Front Panel**

Move the cursor to the text column. Click FN key and use direction keys to select number you want. Please click "enter" button to input.

# **3 Installation and Connections**



All the installation and operations here should conform to your local electrical safety rules.

## **Check Unpacked VIDEO ENCODER**

When you receive the VIDEO ENCODER from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the VIDEO ENCODER can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list on the warranty card (Remote control is optional). Finally you can remove the protective film of the VIDEO ENCODER.



Remote control is not a standard accessory and it is not included in the accessory bag.

## **About Front Panel and Real Panel**

The model label in the front panel is very important; please check according to your purchase order.

The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the after sale service.

## **HDD Installation**

This series VIDEO ENCODER max supports 2 SATA HDDs. Please use HDD of 7200rpm or higher. It has no requirement for HDD capacity.

You can refer to the appendix for recommended HDD brand.

Please follow the instructions below to install hard disk.



1. Loosen the screws of the upper cover and side panel



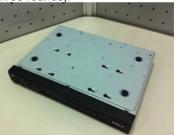
3. Place the HDD in accordance with the four holes in the bottom.



5. Fix the HDD firmly. .



2. Fix four screws in the HDD (Turn just three rounds).



4. Turn the device upside down and then turn the screws in firmly.



6. Connect the HDD cable and power cable.

## Installation and Connections





7. Put the cover in accordance with the clip and then place the upper cover back.

8. Secure the screws in the rear panel and the side panel.

After completing HDD installation, please check the connection of the data ribbon and power cord, and remount the upper cover with screws fastened.



Power supply must be cut off before HDD installation or replacement.

## **Rack Installation**

Please follow the steps listed below.

- Use twelve screws to fix the unit
- Please make sure the indoor temperature is below 35°C (95°f).
- Please make sure there is 15cm (6 inches) space around the device to guarantee sound ventilation.
- Please install from the bottom to the top.
- If there are more accessories connected in the rack, please take precaution measures in case the rack power is overload.

## **Connecting Power Supply**

Please check input voltage and device power button match or not.

We recommend you use UPS to guarantee steady operation, VIDEO ENCODER life span, and other peripheral equipments operation such as cameras.

## **Connecting Video Input and Output Devices**

## **Connecting Video Input**

The video input interface is BNC. The input video format includes: PAL/NTSC BNC (1.0V<sub>P-P</sub>, 75 $\Omega$ .)

The video signal should comply with your national standards.

The input video signal shall have high SNR, low distortion; low interference, natural color and suitable lightness.

#### Guarantee the stability and reliability of the camera signal:

The camera shall be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

The camera and the VIDEO ENCODER should have the same grounding to ensure the normal operation of the camera.

#### Guarantee stability and reliability of the transmission line

Please use high quality, sound shielded BNC. Please select suitable BNC model according to the transmission distance.

If the distance is too long, you should use twisted pair cable, and you can add video compensation devices or use optical fiber to ensure video quality.

You should keep the video signal away from the strong electromagnetic interference, especially the high tension current.

#### Keep connection lugs in well contact

The signal line and shielded wire should be fixed firmly and in well connection. Avoid dry joint, lap welding and oxidation.

### **Connecting Video Output**

Video output includes a BNC (PAL/NTSC 1.0 V<sub>P-P</sub>, 75 $\Omega$ ) output, a VGA output and HDMI output. System supports BNC, VGA and HDMI output at the same time. When you are using pc-type monitor to replace the monitor, please pay attention to the following points:

- To defer aging, do not allow the pc monitor to run for a long time.
- Regular demagnetization will keep device maintain proper status.
- Keep it away from strong electromagnetic interference devices.

Using TV as video output device is not a reliable substitution method. You also need to reduce the working hour and control the interference from power supply and other devices. The low quality TV may result in device damage.

## **Connecting Audio Input & Output, Bidirectional Audio**

### **Audio Input**

These series products audio input port adopt BNC port.

Due to high impedance of audio input, please use active sound pick-up.

Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and it shall be away from high tension.

HUSS-E2X、 HUSS-E4X、 HUSS-E8X device audio input is 2, 4 and 4 separately.

### **Audio Output**

The audio output signal parameter is usually over 200mv 1K $\Omega$  (BNC). It can directly connect to low impedance earphone, active sound box or amplifier-drive audio output device.

If the sound box and the pick-up cannot be separated spatially, it is easy to arouse squeaking. In this case you can adopt the following measures:

- Use better sound pick-up with better directing property.
- Reduce the volume of the sound box.

- Using more sound-absorbing materials in decoration can reduce voice echo and improve acoustics environment.
- Adjust the layout to reduce happening of the squeaking.
- Audio output interface: HUSS-E2X、 HUSS-E4X device is 1-ch 200-2000mv 5KΩ BNC, HUSS-E8X device is 1-ch 200-2000mv 5KΩ RCA.

## **Alarm Input and Output Connection**

Please refer to the following sheet for alarm input and output connection.

There are two alarm input types for you to select: normal open (NO) and normal close (NC).

#### 1. Alarm input

- a. Please make sure alarm input mode is grounding alarm input.
- b. Grounding signal is needed for alarm input.
- c. Alarm input needs the low level voltage signal.
- d. Alarm input mode can be either NC (Normal Open) or NO (Normal Close)
- When you are connecting two VIDEO ENCODER or you are connecting one VIDEO ENCODER and one other device, please use a relay to separate them

#### 2. Alarm output

The alarm output port should not be connected to high power load directly (It shall be less than 1A) to avoid high current which may result in relay damage. Please use the contactor to realize the connection between the alarm output port and the load.

#### 3. How to connect PTZ decoder

- Ensure the decoder has the same grounding with VIDEO ENCODER; otherwise you may not control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.
- b. Avoid high voltage. Ensure proper wiring and some thunder protection measures.

- c. For too long signal wires, 120Ω should be parallel connected between A,
   B lines on the far end to reduce reflection and guarantee the signal quality.
- d. "485 A, B" of VIDEO ENCODER can parallel connect with "485 port" of other device.
- e. The voltage between of A, B lines of the decoder should be less than 5v.
- 4. Please make sure the front-end device has soundly earthed.

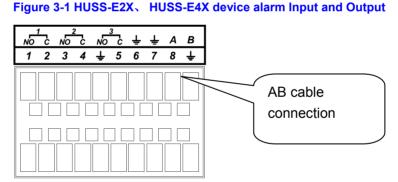
Improper grounding may result in chip damage.

## **Alarm Input and Output Details**

### Important

Please refer to the specifications for the alarm input and output channel amount. Do not merely count the alarm input and out channel amount according to the ports on the rear panel.

The HUSS-E2/4X series product interface is shown as below. See Figure 3-1



You can refer to the following sheet and *Figure 3-1* for alarm input and output information.

In the second line, from the left to the right,: 1, 2, 3, 4, 5, 6, 7, 8.	ALARM 1 to ALARM 8. For HUSS-E2X device, 5-8 alarm interfaces are reserved. The alarm becomes active in low voltage.
In the first line, from the left to the right:	There are three groups of normal open activation output (on/off button)
1-NO C, 2-NO C, 3- NO C	

÷	Earth cable.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect $120T\Omega$ between A/B cables if there are too many PTZ decoders.
Т	he HUSS-E8X device interface is shown as in <i>Figure</i> 3-2.
F	igure 3-2 HUSS-E8X device alarm Input and Output
- [ P	$\begin{array}{c} \begin{array}{c} 9 & 10 & 11 & 12 \\ \hline 1 & 2 & 3 & 4 \\ \hline 1 & 2 & 3 & 4 \\ \hline \end{array} & \hline \\ \begin{array}{c} AB \ cable \\ connection \\ \hline \end{array} \\ \hline \rule{0ex}{3ex}{3ex}{4ex}{5ex}{6ex}{7ex}{6ex}{7ex}{6ex}{7ex}{7ex}{6ex}{7ex}{7ex}{7ex}{7ex}{7ex}{7ex}{7ex}{7$
In the second line, from	ALARM 1 to ALARM 16.
the left to the right,: 1 ,2, 3, 4, 5, 6, 7, 8.and the first line from the left to the right : 9, 10, 11, 12, 13, 14, 15, 16	The alarm becomes active in low voltage.
In the first line, from the left to the right:	There are three groups of normal open activation output (on/off button)
3-NO C, and the second line from the left to the right 1-NO C, 2-NO C.	
÷	Earth cable.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect $120T\Omega$ between A/B cables if there are too many PTZ decoders.

## **Alarm Input Port**

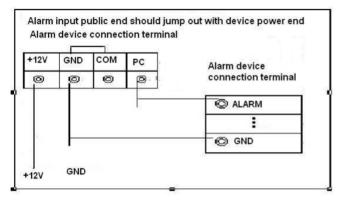
Please refer to the following sheet for more information.

• Normal open or Normal close type.

## Installation and Connections

- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the VIDEO ENCODER and the ground of the alarm detector.
- Please connect the NO port of the alarm sensor to the VIDEO ENCODER alarm input(ALARM)
- Use the same ground with that of VIDEO ENCODER if you use external power to the alarm device.

#### Figure 3-3 Alarm Input



## **Alarm Output Port**

- Provide power to peripheral alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.

#### **Relay Specification**

Model:	JRC-27F	
Material of the touch	Silver	
Rating (Resistance Load)	Rated switch capacity	30VDC 2A, 125VAC 1A
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC

## Honeywell

	Maximum switch currency	1A
Insulation	Between touches with same polarity	1000VAC 1minute
	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500VAC (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×106 MIN (3Hz)
	Electrical	200×103 MIN (0.5Hz)
Temperature	-40°C ~+70°C	

## **RS232**

You can connect the VIDEO ENCODER with POS machine through RS232.

With POS system, the VIDEO ENCODER can communicate through RS232 and network. For the POS system, the VIDEO ENCODER can integrate the text content and even search the record through the info.

## **RS485**

When the VIDEO ENCODER receives a camera control command, it transmits that command up the coaxial cable to the PTZ device. RS485 is a single-direction protocol; the PTZ device can't return any data to the unit. To enable the operation, connect the PTZ device to the RS485 (A, B) input on the VIDEO ENCODER. See *Figure 3-1*& *Figure 3-2* 

Since RS485 is disabled by default for each camera, you must enable the PTZ settings first. This series VIDEO ENCODER support multiple protocols such as Pelco-D, Pelco-P.

To connect PTZ devices to the VIDEO ENCODER:

- 1. Connect RS485 A, B on the VIDEO ENCODER rear panel.
- 2. Connect the other end of the cable to the proper pins in the connector on the camera.
- 3. Please follow the instructions to configure a camera to enable each PTZ device on the VIDEO ENCODER.

There might be slightly difference in the interface due to different model.



All the operations except front panel operations listed below are based on the HUSS-E8X. All operations about front panel are the function of HUSS-E2X and HUSS-E4X.

## **Network Connection**

Before web client operation, please check the following items:

- Network connection is right
- VIDEO ENCODER and PC network setup is right. Please refer to network setup(main menu->setting->network in local)
- Use order ping \*\*\*.\*\*\*.\*\*\*(\* VIDEO ENCODER IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the IE and then input VIDEO ENCODER IP address.
- Please delete the web control and download latest web control manually. The un-install method can be found as below.
- If you want to un-install the web control, please run uninstall webrec2.0.bat. Or you can go to "C:\Program Files\webrec" to remove single folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might result in error. NOTE: Must un-install the webrec before login the Video Encoder if someone had ever visit the web client of HD-NVR-108/116 or HD-16DVR-C or HD-DVR-7016 in the same PC.

## Login

Open IE and input VIDEO ENCODER address in the address column. For example, if your VIDEO ENCODER IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column. See *Figure 4-1* 

#### Figure 4-1 Sample of IE Login

🔗 Blank Page - Windows Internet Explorer	- 28	
(C) (C) - (2) aboot:blank	🗶 👘 🗶 badu 🛛 🖉	
≥ Val	💁 • 🔯 - 👼 • 🔂 Page • 🎯 Tools • 🍟	Input your IP
	<u> </u>	address here.
	😜 Internet 🗮 100% 🔹	

System pops up warning information to ask you whether install webrec.cab control or not. Please click **yes** button.

If you can't download the ActiveX file, please modify your settings as follows. See *Figure 4-2*.

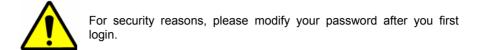
#### Figure 4-2 Internet Options Window

Internet Options 🔹 🤶 🔀	Security Settings - Internet Zone
Internet Options 2 X General Security Privacy Content Connections Programs Advanced Select a zone to view or change security settings.  Select a zone to view or change security settings.  Internet Local Intranet Trusted sizes  Internet Sizes Size	Settings  Disable  Enable  Disable  Disable  Disable  Disable  Pompt (recommended)  Disable  Disable  Commended  Disable  Commended  Disable  Commended  Disable  Disable  Commended  Disable  Commended  Disable  Disable  Commended  Disable  Disabl
Socurity level for this zone Allowed levels for this zone: Medum to High - - - - - - - - - -	
Custom level	Reset custom settings           Beset to:         Medium-high (default)         Rgset
OK Cancel Apply	OK Cancel

After installation, the interface is shown as below. See Figure 4-3.

Please input your user name and password.

Default factory name is admin and password is admin.



#### Figure 4-3 Web Login Window

WEB SERVICE - Windows Internet Explorer		has really that the state of the second	The local data		- 0 - X
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X O Malfeet					
🚖 havontes 🛛 💀 🏀 WEB SERVOCE	🏉 WEB SERVICE 🛛 🗴			🛐 🔻 🔝 🕆 🖃 🏟 🔻 Page 🔻	Safety 🔹 loois 🕶 🔞 🕈 💆
		Honcywell Gran (201) Power (202) Tor (202)			

After you logged in, you can see the main window. See Figure 4-6.

This main window can be divided into the following sections.

Section 1: there are five function buttons: Search, Alarm, Config, About, Log out.

- Section 2: there are channel number and four function buttons: Open All, Start Dialog, Local Play, and Refresh.
- Section3: there are *PTZ*, *Color* button and MORE button, you can reboot the system, select picture path and record path on the local-end, and choose the recording file type.
- Section 4:real-time monitor window. Please note current preview window is circled by a green rectangle zone.
- Section 5: Here you can view window switch button. You can also select video priority between fluency or real-time.

System monitor window switch supports full screen/1-window/4-window/6-window/8window/9-window/13-window/16-window/20-window/25-window/36-window. See *Figure 4-4*.

#### Figure 4-4 Window Switch Menu

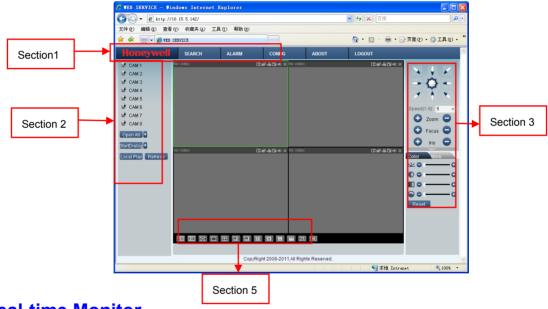


Preview window switch. System support 1/4/8/9-window real-time preview. Please you need to have the proper rights to implement preview operation. You cannot preview if you have no right to preview the either channel. See *Figure 4-5*. Please note this series device does not support this function.

#### Figure 4-5 Window Switch Menu



#### Figure 4-6 Main Menu of Web Client



### **Real-time Monitor**

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

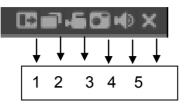
On the top left corner, you can view device IP, channel number, network monitor bit stream.

#### **Figure 4-7 Status Information**



On the top right corner, there are six unction buttons. See Figure 4-8.

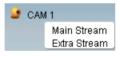
#### Figure 4-8 Control Setup



- 1. Digital zoom: Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- 2. Change show mode: resize or switch to full screen mode.
- 3. Local record. When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder Record Download to view the recorded file.
- 4. Capture picture. You can snapshoot important video. All images are memorized in system client folder \download\picture (default).
- 5. Audio :Turn on or off audio.(It has no relationship with system audio setup )
- 6. Close video: click to close the video.

Please refer to *Figure 4-9* for main stream and extra stream switch information.

#### Figure 4-9 Switch between the Main Stream and Extra Stream



### **Open All**

You can click it to open all channels.

### Refresh

You can use button to refresh camera list.

### **Start Dialogue**

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode. There are three options: DEFAULT/G711a/ PCM.

Please note: the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

### Local Play

The Web can playback the saved (Extension name is dav) files in the PC-end.

Click **local play** button, system pops up the following interface for you to select local play file. See *Figure 4-10* 

#### Figure 4-10 Selection Menu of Local Play File

Open			? 🗙
Look jn: 🧊	Desktop	I + 🖬 → 💽	
	iter rk Places	So Norton AntiVirus ThinkVantage Technologies Wireless Manager 2008_04_08 1 CCF09042008_00000	⊠n10C えSecu
<			>
File <u>n</u> ame: Files of <u>t</u> ype:	Record files (*.*)		<u>O</u> pen Cancel

## PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to Setting-> Pan/Tilt/Zoom).

Click PTZ button, the interface is shown as in Figure 4-11.

# Speed(1-8): 5 c+ Zoom Focus Iris No.(1-255): 1 Auto Tour Preset You can click this icon to Auto Pan Auto Scan display or hide the PTZ control platform. Pattern AUX Open AUX Close PTZ Set

Figure 4-11 PTZ Control Menu

Speed

System supports eight-level speed. You can select from the dropdown list. Speed 2 is faster than speed 1.

## Zoom/Focus/Iris

Here is a sheet for you reference.

Name	Function key	Function	Function key	Function
Zoom	0	Near	Ð	Far
Focus	0	Near	Ð	Far
Iris	•	close	Ð	Open

In *Figure 4-11*, click **PTZ setup** button you can see the following interface. See *Figure 4-12*.

#### Figure 4-12 PTZ Setup Menu

PTZ Set		×
Auto Scan		
	Left Limit Right L	imit
Preset (Scope:0-255)		
0	Add Dele	te
Auto Tour (Scope:1-6) —		
1	Add Dele	te Delete Group
Pattem (Scope:1-1)		
1	Start Record Stop Re	ecord
Assistant		
BLC	Start Close	ed
Matrix		
Monitor Output 0	Video Input 0 Matrix II	D 0 Video Switch
LightWiper		
	On Of	f

### Auto Scan

In *Figure 4-12*, move the camera to you desired location and then click left limit button.

Then move the camera again and then click right limit button to set a right limit.

#### Pattern

In *Figure 4-12*, you can input pattern value and then click start record button to begin PTZ movement. Please go back to *Figure 4-11* to implement camera operation. Then you can click stop record button. Now you have set one pattern.

#### Preset

In *Figure 4-12*, move the camera to your desired location and then input preset value. Click add button, you have set one preset.

#### Auto tour

In *Figure 4-12*, input auto tour value and preset value. Click add button, you have added one preset in the tour.

Repeat the above procedures you can add more presets in one tour.

### Assistant

You can select the assistant item from the dropdown list. See Figure 4-13.

#### Matrix

This series product supports matrix extension function. You can control the video input and output switch

### Light and wiper

If your PTZ protocol supports the light and wiper control function. You can enable/disable the light and the wiper.

#### Figure 4-13 Assistant Setup Menu

PTZ Set
Auto Scan
Left Limit Right Limit
Preset (Scope:0-255)
0 Add Delete
Auto Tour (Scope:1-6)
1 Add Delete Group
Pattern (Scope:1-1)
1 Start Record Stop Record
- Assistant
BLC Start Closed
Digital Zoom Night Vision
Camera Brightness Flip Video Input 0 Matrix ID 0 Video Switch
LightWiper
On Off

## Color

Click color button in section 3, the interface is shown as Figure 4-13.

Here you can select one channel and then adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click **default** button to use system default setup.

#### Figure 4-14 Color Setup Menu

Color More	
	0
00	0
<b>•</b> •—	0
••——	•
Reset	

## **Picture Path and Record Path**

Click more button in *Figure 4-14*, you can see an interface is shown as in *Figure 4-15*.

#### Figure 4-15 More Setup Menu



Click the record item; you can see there are two options: DAV/ASF.

Click picture path button, you can see an interface is shown as in *Figure 4-16*. Please click Browse button to modify path.

#### Figure 4-16 Path Setup Menu (for Picture)

Set Patl	h.	×
Path	C:\PictureDownload	Browse
rath	Jo. a recu ebonicoad	DIOWSE
	0k Cancel	

Click record path button, you can see an interface is shown as in *Figure 4-17*. Please click Browse button to modify path.

Figure 4-17 Path Setup Menu (for Record)

Set Pat	h	
Path	C:\RecordDownload Ok Cancel	Browse

Click **reboot** button, system pops up the following dialogue box. See *Figure 4-18*, Please click **OK** to reboot.

Figure 4-18 Reboot Dialog

Info	x
Are you sure	to Reboot?
ОК	Cancel

If there is local use logged in the system menu, or the Web logged in user has no right to reboot the device system pops up a dialogue box to alert you.

## Config

## **System Information**

### **Version Information**

Here you can view device hardware feature and software version information. See *Figure 4-19*.

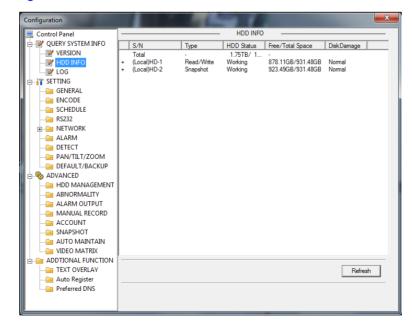
Configuration			x
Control Panel Current Panel Current System InFO Current System InFO Current Statement Current Statemen	Item           S/N           Device Type           Video In/Out           Addio In/Out           Addio In/Out           Bios Version	Status           YPA1LQ01300006           None           4/1           4/1           4/1           1           1           1           1.000.HW00.0.Build:2012-2-24	

**Figure 4-19 Version Information Menu** 

### **HDD** information

Here you can view local storage status and network status including, free capacity and total capacity.

#### Figure 4-20 HDD Information Menu



## Log

Here you can view system log. See Figure 4-21.

Figure 4-21	Log	Information	Menu
-------------	-----	-------------	------

💻 Control Panel					-	LOG -			-
🖶 📝 QUERY SYSTEM INFO	Туре		All	<b>•</b>					
	Start T End Ti		2/27/	2012	13:48	•	More Detail	Search	1
E SETTING					1				_
	S/N	Туре		Event					-
🗀 GENERAL	1		Shut				12-01-06 15:07:02]		
🗀 ENCODE	2	Reboo				Reboot with Fla			
- CHEDULE	3	Video				<video 2<="" :="" loss="" td=""><td></td><td></td><td>Ξ</td></video>			Ξ
RS232	4		oss	2012-02-01		<video 3<="" :="" loss="" td=""><td></td><td></td><td></td></video>			
	5		220.			<video 4<="" :="" loss="" td=""><td>4&gt;</td><td></td><td></td></video>	4>		
	6		k Dis	2012-02-0		<offline></offline>			
- 🗀 ALARM	7		orage				Current working disk<1>		
- DETECT	8	User L				User logged in	<888888>		
PAN/TILT/ZOOM	9		Config			DEFAULT			
DEFAULT/BACKUP	10		Shut				12-02-01 09:41:18]		
	11	Reboo	055			Reboot with Fl			
🖶 🎭 ADVANCED	12	Video				<video :<="" loss="" td=""><td></td><td></td><td></td></video>			
HDD MANAGEMENT	14		055			<video .<="" :="" loss="" td=""><td></td><td></td><td></td></video>			
	14		k Dis			<offline 1="" :=""></offline>	+2		
ALARM OUTPUT	16		rade				Current working disk<1>		
	17	User L				User logged in			
- 🚞 MANUAL RECORD	18		k Re			<offline 1="" :=""></offline>	(000000)		
ACCOUNT	19	User L					<159.99.251.212>		
- SNAPSHOT	20		ALR	2012-02-0		MANUAL REC			
AUTO MAINTAIN	21		Sea				-02-01 09:56:50]		
	22		Sea				-02-01 09:56:501		
- DEO MATRIX	22	Deener					02 01 00.50.50]		-
E-B ADDTIONAL FUNCTION									-
TEXT OVERLAY	Pag	e U o	Pag	e Down			Backup	Clear	1
🛁 Auto Register									1
Preferred DNS									
Preterred DNS									

Click backup button, the interface is shown as in *Figure 4-22*.

#### Figure 4-22 Log Backup Menu

Save As	? 🔀
Savejn: 🞯 Desktop 💽 🔶 🕋	
My Computer	
My Documents	
3 My Network Places	
File name: 2009-07-10 11_24_32(All)	Save
Save as type: Log File(*.log)	Cancel

Please refer to the following sheet for log parameter information.

Parameter	Function
Туре	Log types include: system operation, configuration operation, data management, alarm event, record operation, user management, log clear and file operation.
Search	You can select log type from the drop down list and then click search button to view the list.
Start time	Please input start time here.
End time	Please input the end time here.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
More details	Select one item and click this button, you can view the detailed log information.
Backup	You can click this button to backup log files to current PC.

## **System Config**

Please click save button to save your current setup.

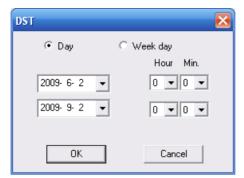
## **General Setup**

Here you can set system time, record length, video format and etc.

#### Figure 4-23 General Setup Menu

Configuration	1 m m			×
Control Panel		GENERAL		
UUERY SYSTEM INFO	System Time	2012-02-27 💌 1:5	7:20 PM 🔹 Save	Sync PC
HDD INFO CG CG CG CG CG CG CG CG CG CG	Date Format Date Separator Time Format Language HDD Full Pack Duration Device No. Video Standard Device Name	YYYY MM DD         ▼           1*         ▼           24H0UR         ▼           ENGUSH         ▼           60         8           NTSC         ▼           DVR         ▼	Minutes	Set

Figure 4-24 DST Setup Menu (Date)



#### Figure 4-25 DST Setup Menu (Week)

DST	3
ODay ● Week day Month Week Week day Hour Min. 6 ▼ 1 ▼ Tue ▼ 0 ▼ 0 ▼	
9 • 1 • Wed • 0 • 0 •	
OK Cancel	

Please refer to the following sheet for detailed information.

Parameter	Function
System Time	Here is for you to modify system time. Please click Save button after your completed modification
Sync PC	You can click this button to save the system time as your PC current time.
Data Format	Here you can select data format from the dropdown list.
Data Separator	Please select separator such as – or /.
Time Format	There are two options: 24-H and 12-H.
DST	Here you can set day night save time begin time and end time. See <i>Figure</i> 4-24 and <i>Figure</i> 4-25.

Language	You can select the language from the dropdown list. Device needs to reboot to get the modification activated.
HDD Full	There are two options: stop recording or overwrite the previous files when HDD is full.
	When current working HDD is overwriting or it is full now, system stops record.
	If current working HDD is full now, system goes to overwrite the previous file.
Pack Duration	Here you can select file size. The value ranges from 1 to 120 minutes. Default setup is 60 minutes.
Device No	When you are using one remote control (not included in the accessory bag) to manage multiple devices, you can give a serial numbers to the device.
Video	There are two options: PAL/NTSC.
Standard	Please note, for the Web user, this information is for reference only. You cannot modify.
Device Name	Please input the corresponding device name here.

### Encode

Encode interface is shown as in *Figure 4-26*.

#### Figure 4-26 Encode Menu

Configuration				×
Sontrol Panel	l	ENC	ODE	
📄 📝 QUERY SYSTEM INFO	Channel	Channel 01 🔹	Channel Name	通道—
VERSION				
HDD INFO	Compression	H.264 💌		
EUG SETTING	Туре	Regular 💌	Extra Stream	Extra Stream1 💌
GENERAL	Video/Audio	Audio	Video/Audio	🔽 Video 🔲 Audio
ENCODE	Resolution	D1 🔻	Resolution	QCIF 🗨
SCHEDULE	Frame Rate(FPS)	25 💌	Frame Rate(FPS)	25 💌
RS232	Bit Rate Type	CBR 👻	Bit Rate Type	CBR 👻
				,
DETECT	Bit Rate(Kb/s)	2048 -	Bit Rate(Kb/s)	160 -
PAN/TILT/ZOOM	Reference Bit Rate	640~3584Kbps	Reference Bit Rate	
DEFAULT/BACKUP				,
ADVANCED			✓ Watermark	Set
			Vvatermark	Jei
ALARM OUTPUT	Overlav			
- 🔤 MANUAL RECORD	Ovenay			
ACCOUNT	Cover-Area	Never	Set	
	Time Display	Set	🔽 Channel Displa	y Set
AUTO MAINTAIN				
TEXT OVERLAY	Сору			Save Refresh
Auto Register				
Preferred DNS				

#### Figure 4-27 Color Setting Menu

Color Setting	2				×
Brightness  52 0~100	Contrast 49 0~100	Saturation 50 0~100	Hue 50 0~100	Gain 49 0~100	
	OK		Cancel		

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Here is for you to select a monitor channel.
Channel Name	Here is to display current channel name. You can modify it.
Compression	H.264
Main Stream	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events.
	System supports active control frame function (ACF). It allows you to record in different frame rates.
	For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Extra Stream	Select extra stream if you enabled the extension stream to monitor.
Audio/Video	For the main stream, recorded file only contains video by default. You need to draw a circle here to enable audio function.
	For extra stream, you need to draw a circle to select the video first and then select the audio if necessary.
Resolution	System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports D1/HD1/2CIF/CIF/QCIF. Please note the option may vary due to different series.
Frame Rate	PAL: 1~25f/s; NTSC: 1~30f/s.

Parameter	Function
Bit Rate Type	There are two options: VBR and CBR.
	Please note: you can set video quality in VBR mode only.
Quality	The value ranges 6 levels: highest, higher, high, low, lower, lowest.
Bit Rate	In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value.
	The value is null in VBR mode.
	Please refer to recommend bit rate for the detailed information.
Recommended Bit	Recommended bit rate value according to the resolution and frame rate you have set.
Color Setting	Here you can set video brightness, contrast ness, hue, saturation and gain.
	The value ranges from 0 to 100.Default value is 50. See <i>Figure 4-27</i> .
	Please note: some series devices do not support OSD transparent setup function.
Cover area	Here you can privacy mask the specified video in the monitor video.
(privacy mask)	One channel max supports 4 privacy mask zones.
	The privacy mask includes two options: Never/monitor. Never: It means do not enable privacy mask function. Monitor: the privacy mask zone cannot be viewed in monitor mode.
Time Title	You can enable this function so that system overlays time information in video window.
	OSD transparent value ranges from 0 to 255. 0 means complete transparent. Please note OSD transparent setup is form special series only.
	You can use the mouse to drag the time tile position.
Channel Title	You can enable this function so that system overlays channel information in video window.
	OSD transparent value ranges from 0 to 255. 0 means complete transparent.
	You can use the mouse to drag the channel tile position.
Сору	It is a shortcut menu button. You can copy current channel setup to one or more channels. The interface is shown as in <i>Figure 4-28</i> .
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.

Parameter	Function
Refresh	Click this button to get device latest configuration information.

Click copy interface, the interface is shown as in *Figure 4-28*.

If you have completed the setup for channel 1, you can click 3 to copy current setup to channel 3. Or you can click 2, 3, and 4 to copy current setup to channel 2, channel 3 and channel 4.

#### Figure 4-28 Copy-To Menu

Сору То			X
	All Cł	nannel	
1 2	3 4	5 6 7	8
	J]	]	
	OK	Cancel	
Ľ.	I		

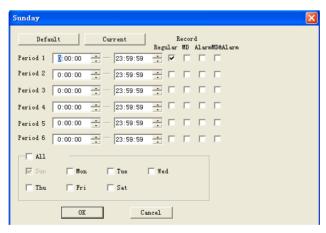
### Schedule

Here you can set different periods for various days. There are max six periods in one day. See Figure 4-29

#### Figure 4-29 Schedule Setup Menu

Configuration		<u></u>						×
Control Panel	1			SC	HEDULE			
QUERY SYSTEM INFO	Channe	Channel 01	-	Prerecord	4 sec	□ Re	dundancv	
- VERSION	Period							
- MDD INFO			Regular	MD	Alarm		MD&Alarm	
LOG		0	4	8	12	16	20	24
😑 🔐 SETTING								
- GENERAL	Sun	1			Record			Set
ENCODE								
- CHEDULE RS232	Mon	E .			Record			Set
H INFTWORK								
	Tue				Record			Set
DETECT								
PAN/TILT/ZOOM	Wed				Record			Set
DEFAULT/BACKUP								
🖶 🎨 ADVANCED	Thu	-			Record			- Set
-B HDD MANAGEMENT		C						
- ABNORMALITY	Fri	-			Record			- Set
MANUAL RECORD		-			rtooora			
	Sat				Record			- Set
SNAPSHOT		E			TRECOID			
- 🗀 AUTO MAINTAIN								
- 🔤 VIDEO MATRIX								
ADDTIONAL FUNCTION								
TEXT OVERLAY	Co	ру					Save	Refresh
- Auto Register								
Preferred DNS								

#### Figure 4-30 Date and Time Setup Menu



Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Please select a channel first.
Pre-record	Please input pre-record value here. System can record the three to five seconds video before activating the record operation into the file. (Depends on data size).

Parameter	Function
Setup	In <i>Figure 4-29</i> , click set button, you can go to the corresponding setup interface.
	Please set schedule period and then select corresponding record or snapshot type: schedule/snapshot, motion detection/snapshot, and alarm/snapshot.
	Please select date (Current setup applies to current day by default. You can draw a circle before the week to apply the setup to the whole week.)
	After complete setup, please go back to <i>Figure 4-29</i> and then click save to save current time period setup.
Сору	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels. The interface is shown as in <i>Figure 4-28</i> .
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.
	RS232

The RS232 interface is shown as in *Figure 4-31*.

### Figure 4-31 RS232 Setup Menu

Configuration	11 Jan 1			×
Control Panel  Control Panel  QUERY SYSTEM INFO  QUERY SYSTEM INFO  QUERY SYSTEM INFO  CONTROL  SECONDE  SECONDE  SECONDE  ALARM  DETECT  ALARM DETECT  ALARM DETECT  ALARM OUTPUT  ALAR	RS232 COM Function Data Bits Stop Bits Baudrate Parity	COM 01 Console 8 1 115200 None	- R5232 - - - - - - - - - -	
ADDTIONAL FUNCTION				Save Refresh

Please refer to the following sheet for detailed information.

Parameter	Function	
RS232 COM	COM 01.	
Function	Console is to upgrade the program or debug via COM or mini terminal software.	
	HD-JC-010 keyboard (Reserved): COM control protocol. You can use keyboard to control VIDEO ENCODER via COM. (Reserved)	
Data Bit	The value ranges from 5 to 8.	
Stop Bit	There are two options: 1/2.	
Baud Bit	You can select corresponding baud bit here.	
Parity	There are five options: none/odd/even/space/mark.	

## System default setup is:

- Function: Console.
- Data bit: 8
- Stop bit: 1
- Baud bit: 115200
- Parity: None.

### Network

Network interface is shown as in *Figure 4-32*.

# Honeywell

#### Figure 4-32 Network Setup Menu

Configuration		-	×
Control Panel	·	NE"	TWORK
🛓 📝 QUERY SYSTEM INFO 🗍	Ethernet Port	Port 01	C DHCP
	IP Address	192 . 168 . 0 . 23	Mac Address 52:54:4c fa:c9:ca
PHDD INFO		255 . 255 . 255 . 0	Mac Address   52.54.461a.65.6a
LOG	Subnet Mask	1	
🖨 🔐 SETTING	Gateway	192 . 168 . 0 . 1	
🧀 GENERAL			
📔 ENCODE			
CHEDULE			
🧰 RS232	TCP Port	37777 HTTP Port	80 RTSP Port 554
		Max Connection	20
ADVANCE			
Ciai Email and Ci			
	Transfer	Latency	LAN Download
		,	
DETECT			
PAN/TILT/ZOOM			
DEFAULT/BACKUP			
🗄 🌯 ADVANCED			
- 🗀 HDD MANAGEMEI			
🗀 ABNORMALITY			
🗀 ALARM OUTPUT			
📔 MANUAL RECORD			Save Refresh
📔 ACCOUNT			
🗀 SNAPSHOT			
📔 AUTO MAINTAIN			
VIDEO MATRIX			

Please refer to the following sheet for detailed information.

Parameter		Function		
Ethernet		Please select the network card first.		
DHCP		Dynamically get IP address. You can get the device IP from the DHCP server if you enabled this function.		
TCP Port		Default value is 37777.		
HTTP Port		Default value is 80.		
RTSP Port		Default value is 554.		
Max Connection		Network user max amount. The value ranges from 0 to 20. O means there is no user can access current device.		
Remote Host	Multiple cast group	<ul><li>Set MULCAST address and port.</li><li>Enable MULCAST function.</li></ul>		

Parameter	F	unction
	PPPOE •	Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.
	•	Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.
	•	Please note if you want to reboot the device please make sure you have proper reboot right and there is no login user in current device.
	Emai	l

The email interface is shown as in *Figure 4-33*.

#### Figure 4-33 Email Setup Menu

Configuration				<b>×</b>
Control Panel	1	EMAIL -		
🗉 📝 QUERY SYSTEM INFO	SMTP Server	MailServer	Enable	
	Port	25 0~65500	Encrypt Type	NONE -
	User Name		Anonymous	Attachment
LOG	Password			
GENERAL	Sender			
ENCODE	Title.	DVR ALERT		
	Receiver 1	DVITALENT		
🗀 RS232	Receiver 2			
E-E NETWORK	Receiver 3			
ADVANCE		I		
EMAIL	Event Interval	120 sec.		
FTP	Health Enable			
- NTP	Interval	60 Minutes		
🗀 UPNP				
📔 ALARM				
DETECT				
PAN/TILT/ZOOM DEFAULT/BACKUP				
DEFAULT/BACKUP				
HDD MANAGEMEI				
ABNORMALITY				
ALARM OUTPUT	J			
MANUAL RECORD		Test	Save	Refresh
ACCOUNT				
SNAPSHOT				
AUTO MAINTAIN				

Please refer to the following sheet for detailed information.

Parameter	Function
SMTP Server	Input server address and then enable this function.
Port	Input port value here.

# Honeywell

Parameter	Function
User Name	The sender email account user name.
Password	The sender email account password.
Sender	Sender email address.
Subject	Input email subject here. Max 32-digit.
Address	Input receiver email address here. Max input three addresses. Support SSL encryption mailbox.
Health mail enable	Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
Health mail interval	Please check the above box to enable this function and then set the corresponding interval.
	System can send out the email regularly as you set here.

### DDNS

The DDNS interface is shown as in *Figure 4-34*.

Please make sure your VIDEO ENCODER support this function.

#### Figure 4-34 DDNS Setup Menu

Configuration		1 A 1				×
Sontrol Panel	*			DDNS		
QUERY SYSTEM INFO		DDNS Type	Private DDNS	Enable		
HDD INFO		Server IP				
LOG		Port	80	1~65535		
E SETTING				_		
GENERAL		Domain Name				
ENCODE		User Name				
SCHEDULE		Password		_		
		Update Period	300	300~65535		
ADVANCE		Update Penod	1500	300 60030		
EMAIL	Ξ					
📔 FTP						
📴 NTP						
UPNP						
PAN/TILT/ZOOM						
DEFAULT/BACKUP						
ADVANCED						
HDD MANAGEMEI						
ABNORMALITY						
ALARM OUTPUT	۳					
MANUAL RECORD					Save	Refresh
ACCOUNT						
VIDEO MATRIX	Ŧ					

Parameter	Function		
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function. The private DDNS protocol means you use your self-defined private protocol to realize DDNS function.		
Server IP	DDNS server IP address		
Server Port	DDNS server port.		
Domain Name	Your self-defined domain name.		
User	The user name you input to log in the server.		
Password	The password you input to log in the server.		
Interval	• Device sends out alive signal to the server regularly.		
	• You can set interval value between the device and DDNS server here.		

Please refer to the following sheet for detailed information.

### FTP

FTP interface is shown as in Figure 4-35.

Please make sure your VIDEO ENCODER support this function.

#### Figure 4-35 FTP Setup Menu

Configuration		×
HDD INFO	FTP	
LOG	FTP Enable FTP Mode ▼	
E SETTING		_
GENERAL	Server IP 0 . 0 . 0 . 0 Port 21	21~65535
ENCODE	User Name File Length 0	MB
SCHEDULE	Password	
	Remote Path	
	Period Info	
ADVANCE	Channel Channel 01   Regular MD Alarm	
EMAIL		24
DDNS		
FTP	Sun	Set
III III IIII IIII IIIII IIIIIIIIIIIIII		
UPNP	Mon	Set
ALARM	Тие	
DETECT	l lue	Set
PAN/TILT/ZOOM	Wed	Set
DEFAULT/BACKUP	- ¥¥80	
🖕 🎭 ADVANCED	Thu	Set
HDD MANAGEMEI		
ABNORMALITY	Fri	Set
ALARM OUTPUT	···	
MANUAL RECORD	Sat	Set
ACCOUNT		
- SNAPSHOT	Com.	Befresh
AUTO MAINTAIN	Copy Save	rietresh
TEXT OVERLAY		
Auto Reaister 📑		

Parameter	Function
FTP enable	Please select network storage protocol and then enable FTP function.
Server IP	Input remote storage server IP address.
Port	Input Remote storage server port number.
User Name	Log in user account.
File size	The file length you upload to the FTP.
	When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.
Password	The password you need to log in the server.
Remote Path	Remote storage file path.
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.
	NTP

Please refer to the following sheet for detailed information.

The NTP interface is shown as in Figure 4-36.

Here you can realize network time synchronization. Please enable current function and then input server IP, port number, time zone and update interval. Please note the SNTP supports TCP transmission only and its port shall be 123. The update interval ranges from 1 to 65535. Default value is 10 minutes.

Configuration	1 m m		<b>×</b>
HDD INFO		NTP	
LOG	Enable		
E-TING	Server IP	NTPServer	
GENERAL	Jervern		
ENCODE	Port	123	
SCHEDULE		CUT 00 00	
RS232	Time Zone	GMT+08:00	
	Update Period	60	Minutes
ADVANCE		1	- Indeos
EMAIL			
DDNS			
FTP			
III IIII IIII IIIII IIIII IIIIIIIIIIII			
UPNP			
ALARM			
DETECT			
PAN/TILT/ZOOM			
DEFAULT/BACKUP			
ADVANCED			
HDD MANAGEMEI			
ABNORMALITY			
ALARM OUTPUT			
MANUAL RECORD			
ACCOUNT			
SNAPSHOT			
AUTO MAINTAIN			Save Refresh
VIDEO MATRIX			
TEXT OVERLAY			
📃 🔤 Auto Reaister 💽			

## Figure 4-36 NTP Setup Menu

You can refer to the following sheet for time zone information.

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Токуо	GMT+9
Sydney	GMT+10

Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8
American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

## Advanced

The advanced interface is shown as in Figure 4-37.

Multiple cast

If you select multicast cast when login in VIDEO ENCODER from remote, the connect ion to VIDEO ENCODER will be multicast cast,

PPPOE

Please input the PPPOE user name and password you get from the IPS (internet service provider) and enable PPPOE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPOE after reboot. You can get the IP address in the WAN from the IP address column.



After PPPOE successful dial, you need to go to the device local end to get device current IP address and then use the client-end to access this IP address.

### Figure 4-37 Advanced Setup

Configuration		-				×
HDD INFO 🔺			A	dvance		
LOG						
E SETTING	Service	MULTICAST	💌 🗆 Enat	ble		
GENERAL	User			IP Address	239 . 255 . 42 .	42
ENCODE	000	1				
- CHEDULE	Password			Port	36666 11	~65500
🗀 RS232						
🖶 🦢 NETWORK						
ADVANCE						
EMAIL						
DDNS						
FTP						
🗀 NTP						
UPNP						
ALARM						
DETECT						
PAN/TILT/ZOOM						
DEFAULT/BACKUP						
🖨 🎨 ADVANCED						
HDD MANAGEMEI						
🛅 ABNORMALITY						
📔 ALARM OUTPUT						
MANUAL RECORD						
COUNT						
SNAPSHOT					1	1
AUTO MAINTAIN					Save	Refresh
VIDEO MATRIX						
E- ADDTIONAL FUNCTIC						
TEXT OVERLAY						
Auto Register 🚬						

## UPNP

Go to the UPNP interface, you can see an image is shown as in *Figure 4-38*.

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPNP item.

### Figure 4-38 UPNP Setup

Configuration								x
Control Panel Cutrol Panel Cutr	*	Router WAN I	Status: · LAN IP IP apping list	Searching 0.0.0.0 0.0.0.0		UPNP		
ENCODE     ENCODE     S222     ENCODE     S222     ENCODE     ENCODE     S222     ENCODE     E	E	Y	Server Na HTTP TCP UDP RTSP	ame	Protocol TCP TCP UDP TCP	Internal port 80 37777 377778 554	External port 80 80 377777 37778 554 554	
ALARM OUTPUT MANUAL RECORD ACCOUNT ACCOUNT AUTO MAINTAIN VIDEO MAINTAIN	+	Add Map	oping	Delete			Save Refresh	

## Alarm

Alarm setup interface is shown as in *Figure 4-39*.

Please make sure you have connected the corresponding alarm output device such as the light, buzzer and etc.

### Figure 4-39 Alarm Setup Menu

Configuration	10 Ann 10				
Sontrol Panel		ALARM			_
QUERY SYSTEM INFO     VERSION	Event Type	Local Alarm 💌			
-W HDD INFO	Alarm In	Input 01 💌 🔽	Туре	Normal Open 💌	
LOG					
E-TTING	Period	Set			
ENCODE	Alarm Out	1 2 3			
- CHEDULE					
RS232	Dalay	10 sec. 1~3600	Alarm Upload		
	Record Channel	1 2 3 4	1		
- DETECT	Dalay	10 sec. 1~3600			
PAN/TILT/ZOOM DEFAULT/BACKUP	Send Email	Show Message		Buzzer	
ADVANCED				, bullo	
HDD MANAGEMENT	PTZ Activation	Set			
- ABNORMALITY	Snapshot				
- MANUAL RECORD	Video Matrix				
- ACCOUNT		1			
- Cale SNAPSHOT					
VIDEO MATRIX					
ADDTIONAL FUNCTION				1	-
- EXT OVERLAY	Сору			Save Refresh	
Preferred DNS					

Press tour button then you can see the picture below.

## Figure 4-40 PTZ Setting

hannel	Event Typ	e Addr.									
01	Never	• 0	09	Never	▼ 0	17	Never	▼ 0	25	Never	<b>V</b>
02	Never	• 0	10	Never	<b>v</b> 0		Never	<b>v</b> 0	26	Never	<b>v</b> 0
03	Never	• 0	11	Never	▼ 0	19	Never	- 0	27	Never	-
04	Never	• 0	12	Never	▼ 0		Never	<b>-</b> 0		Never	<b>v</b> 0
05	Never	• 0		Never	<b>-</b> 0	21	Never	<b>-</b>	29	Never	<b>V</b> 0
06	Never	• 0	14	Never	<b>-</b>	22	Never	<b>~</b> 0		Never	<b>y</b> 0
07	Never	• 0		Never	<b>T</b> 0	23	Never	<b>V</b>		Never	<b>T</b>
08	Never	• 0	16	Never	<b>v</b> 0	24	Never	<b>v</b> 0		Never	<b>v</b> 0

Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	It includes local alarm/net alarm.
	Local alarm: Device detects alarm from input port.
	Net alarm: Device detects alarm from network.
Alarm in	Select corresponding alarm channel.
Enable	You need to draw a circle here so that system can detect the alarm signal.
Туре	There are two options: normal open (NO) and normal close (NC). NO becomes activated in low voltage, NC becomes activated in high voltage.
Period	Alarm record function becomes activated in the specified periods.
	There are six periods in one day. Please draw a circle to enable corresponding period.
	Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week.
	Click OK button, system goes back to alarm setup interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value range from 5 to 600s.
Normal Out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurred.
Alarm Latch	System can delay the alarm output for specified time after alarm ended. The value ranges from 1 second to 300 seconds.
Show message	System pops up the alarm messages in the monitor interface.
Buzzer	Once you check the box here, the buzzer beeps when an alarm occurred.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Record Channel	System auto activates current channel to record once alarm occurs (working with alarm activation function). Please note current device shall be in auto record mode (Schedule).
Record Latch	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.

Parameter	Function
Email	Please draw a circle to enable email function. System can send out email to alert you when alarm occurs and ends.
Tour	Display the selected video in local monitor window.
	Tour interval and tour mode are set in VIDEO ENCODER local menu <i>Display</i>
PTZ activation	Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm.
	The PTZ configuration events include preset, tour, and pattern.
Capture	You need to input capture channel number so that system can backup snapshot file when alarm occurs.
Сору	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels.
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.
	Detect

Analysis the video, system enable motion detection alarm when it detects the motion signal reached the specified sensitivity.

The detection interface is shown as in *Figure 4-41*.

### Figure 4-41 the Detection Setup Menu

Configuration	11 Jan 10				×
Scontrol Panel	1	DETECT	r ———		
QUERY SYSTEM INFO     VERSION	Event Type	Motion Detect 💌			
HDD INFO	Channel	Channel 01 💌 🔽	Sensitivity	3 💌	
LOG	Region	Select			
GENERAL	Period	Set			
CODE	🔽 Alam Out	1 2 3			
📔 RS232					
🗈 🧰 NETWORK	Dalay	10 sec. 1~3600	🔽 Alarm Upload		
	Record Channel	1 2 3 4			
PAN/TILT/ZOOM	Dalay	10 sec. 1~3600			
DEFAULT/BACKUP	Send Email	Show Message		Buzzer	
ADVANCED     HDD MANAGEMENT	Tour	1 2 3 4			
ABNORMALITY	PTZ Activation	Set			
ALARM OUTPUT	Snapshot	1 2 3 4			
ACCOUNT	Video Matrix	1			
📔 SNAPSHOT					
AUTO MAINTAIN					
ADDTIONAL FUNCTION					
ADDTIONAL FUNCTION     TEXT OVERLAY	Сору			Save Refresh	1
Auto Register				- Heilesin	
Preferred DNS					

			2011	-12-19	15:39	9:00
	TT					
		$\square$				
	+	$\vdash$				
		$\vdash$				
	++	⊢⊢				
		HH				
CAM 1						

### Figure 4-42 the Detection Zone Setup

Select the area using mouse and the black area in the above picture is not motion detect area.

Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	There are three types: Motion detection/video loss/Camera Masking.
Channel	Select channel name from the dropdown list.
Enable	You need to draw a circle to enable motion detection function.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	There are six levels. The sixth level has the highest sensitivity. Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in <i>Figure 4-43</i> . There are PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-screen display mode. Do remember clicking OK button to save your motion detection zone setup.
Period	Motion detection function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. Click OK button, system goes back to motion detection interface; please click save button to exit.

Parameter	Function
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 3s to 600s.
Normal out	There is 3-channel alarm output.
	Corresponding to motion detection alarm output port(multiple choices)
	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm latch	System can delay the alarm output for specified time after alarm ended. The value ranges from 1s to 300s.
Show message	System pops up the alarm messages in the monitor interface.
Buzzer	Once you check the box here, the buzzer will beep when an alarm occurred.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Record channel	System auto activates motion detection channel (multiple choices) to record once alarm occurs (working with motion detection function). Please note you need to go to <i>Schedule</i> to set motion detection record period and go to <i>Record</i> to set current period as auto record.
Record latch	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends.
Tour	Display the selected video in local monitor window.
	Tour interval and tour mode are set in VIDEO ENCODER local menu ( <i>Display</i> )
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm.
Capture	You need to input capture channel number so that system can backup motion detection snapshot file.

Parameter	Function
Matrix Enable	Please note this function is valid in motion detect mode.
	Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes "first come and first serve" principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.
Сору	It is a shortcut menu button. You can copy current channel setup to one or more (all) channels.
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.
	PTZ

PTZ interface is shown as in *Figure 4-43*.

Please note, before operation please make sure you have set speed dome address. And VIDEO ENCODER and speed dome connection is OK.

### Figure 4-43 PTZ Setup Menu

Configuration			<b>X</b>
📃 Control Panel		PAN/TILT/ZOOM -	
🖶 📝 QUERY SYSTEM INFO	Channel	Channel 01 🔹	
VERSION			
HDD INFO			
	Protocol	PELCOP -	
GENERAL	Address	1 0~255	
ENCODE	Baudrate	2400 💌	
RS232			
	Data Bits	8	
🗀 ALARM	Stop Bits	1 💌	
DETECT	Parity	None	
DEFAULT/BACKUP			
🖶 🎨 ADVANCED			
HDD MANAGEMENT			
ABNORMALITY			
MANUAL RECORD			
ACCOUNT			
SNAPSHOT			
AUTO MAINTAIN			
ADDTIONAL FUNCTION			
TEXT OVERLAY	Сору		Save Refresh
Auto Register			
Freielled Divs			

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	You can select monitor channel from the dropdown list
Protocol	Select the corresponding dome protocol.(such as PELCOD)
Address	Set corresponding dome address. Default value is 1. Please note your setup here shall comply with your dome address; otherwise you cannot control the speed dome.
Baud Rate	Select the dome baud rate. Default setup is 115200
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.
Save	You can click save button after you complete setup for one channel, or you can complete the whole setups and then click save button.
Refresh	Click this button to get device latest configuration information.
	Defealt / De alarm

## Default / Backup

Default: Restore factory default setup. You can select corresponding items.

Backup: Export current configuration to local PC or import configuration from current PC.

Please refer to Figure 4-44.

Please note system cannot restore some information such as network IP address.

#### Figure 4-44 Default Setup Menu

Configuration	
Control Panel	DEFAULT/BACKUP     Please select setting entries that you want to default.
VERSION W HDD INFO W LOG	Select all Default
GENERAL	□ GENERAL □ ENCODE □ SCHEDULE □ R5232
SCHEDULE	
E I I I I I I I I I I I I I I I I I	DETECT     PAN/TILT/ZOOM     DISPLAY     Channel Name
ADVANCED     ADVANCED     ADVANCED     ADVANCED     ADVANCED     AAVANCED     ALARN OUTPUT     ALARN OUTPUT     ALARN OUTPUT     AAVANSHOT     ADVADSHOT     ADTONALFUNCTION     ADTONALFUNCTION     ALORONALFUNCTION     ALORONALFUNCTION     ALORONALFUNCTION     ALOROSISTE     Preferred DNS	Config Backup Default Path: C:\Users\E569046\Desktop\ Export Config Import Config

Please refer to the following sheet for detailed information.

Parameter	Function
Select All	Restore factory default setup.
Export Configuration	Export system configuration to local PC.
Import Configuration	Import configuration from PC to the system.

## **Advanced**

## **HDD Management**

HDD management includes net storage management and local storage management.

Please note: if you want to use local storage function, your storage device need to support current function.

Please select the storage device first and then you can see the items on your right become valid. You can check the corresponding item here.

### Figure 4-45 HDD Management Menu

Configuration		
Scontrol Panel	HDI	D MANAGEMENT
. QUERY SYSTEM INFO	HDD MANAGEMENT	
VERSION	E- HDD	
		C Format
LOG	i (Local)02	C Read/Write
🖨 🔐 📅 SETTING		< Hoddy Wiles
GENERAL		C Read Only
ENCODE		
SCHEDULE		C Redundant
🧰 RS232		
⊡ NETWORK		C Recover
- Calaria Alarm		C Use as Snapshot HI
DETECT		
PAN/TILT/ZOOM		
ADVANCED		Execute
HDD MANAGEMENT		Encourc
ABNORMALITY		
ALARM OUTPUT		
MANUAL RECORD		
ACCOUNT		
SNAPSHOT		
AUTO MAINTAIN		
VIDEO MATRIX		
E-B ADDTIONAL FUNCTION		
TEXT OVERLAY		
📔 Auto Register		
Preferred DNS		

Please refer to the following sheet for detailed information.

Parameter	Function
Format	Clear data in the disk.
Read/write	Set current disk as read/write
Read only	Set current disk as read.
Redundant	Set current disk as redundant disk.
Recover	Recover data after error occurs.
Use as snapshot	Set current disk as snapshot disk.

Please note system needs to reboot to activate current setup.

# Alarm I/O Config

Here you can search alarm output status.

#### X Configuration 💻 Control Panel ALARM OUTPUT . QUERY SYSTEM INFO Alarm Out -VERSION Record All - 📝 HDD INFO Automatic $\odot$ 📝 LOG 0 0 Manual ETTING Closed - 🗀 GENERAL Status - 📔 ENCODE Save Refresh - CHEDULE - 🧀 RS232 ALARM DETECT PAN/TILT/ZOOM DEFAULT/BACKUP SADVANCED - HDD MANAGEMENT - ABNORMALITY - MANUAL RECORD - COUNT - SNAPSHOT AUTO MAINTAIN VIDEO MATRIX 🗄 📄 ADDTIONAL FUNCTION EXT OVERLAY 🛁 Auto Register - Preferred DNS

### Figure 4-46 Alarm I/O Config Menu

## Important

The alarm output port should not be connected to high power load directly (It shall be less than 1A) to avoid high current which may result in relay damage. Please use the contactor to realize the connection between the alarm output port and the load.

Please refer to the following sheet for detailed information.

Parameter	Function
Alarm output	There are three output channels (Multiple choices).
	Please note the displayed alarm output channel amount here may vary due to the different series.
Activate	Enable/disable alarm output device. After the Web activated the alarm, you need to cancel the channel and then click the activation button to cancel the alarm, or you need to cancel the alarm in the pop-up dialogue box in local-end.
Refresh	Search alarm output status.
	Record

Record control interface is shown as in Figure 4-47.

### Figure 4-47 Record Control Menu

Configuration	The second se	×
📃 Control Panel	MANUAL RECORD	
DUERY SYSTEM INFO	MANUAL RECORD	
VERSION		
HDD INFO		
	Record Mode All 1 2 3 4	
GENERAL		
ENCODE	Manual C C C C	
SCHEDULE	Closed C @ @ C	
📔 RS232		
🕀 📔 NETWORK		
DETECT		
DEFAULT/BACKUP		
ADVANCED		
HDD MANAGEMENT		
ABNORMALITY		
ALARM OUTPUT	Save Refresh	
VIDEO MATRIX		
ADDTIONAL FUNCTION		-
TEXT OVERLAY		
🗀 Auto Register		
Preferred DNS		

Please refer to the following sheet for detailed information.

Parameter	Function
Auto	System enables auto record function as you set in record schedule setup.
Manual	Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.

Operation here is the same to *Manual Record*. Please refer to Manual Record for detailed information.

## Account

Here you can add, remove user or modify password.

		T.
Configuration		ĸ
Scontrol Panel	ACCOUNT	
- QUERY SYSTEM INFO	Account	
- VERSION	⊡- admin Add User	
- HDD INFO	- 888888 [Reuseable]	
LOG	admin [Reuseable]	
E SETTING		
- GENERAL		
- ENCODE		
- CHEDULE	Delete User	
— <u>—</u> RS232		
🕀 🧰 NETWORK		
- 🗀 ALARM	Modify Password	
- DETECT		
- PAN/TILT/ZOOM		
DEFAULT/BACKUP	Add Group	
🖻 🌯 ADVANCED		
- HDD MANAGEMENT		
- ABNORMALITY	Modify Group	
ALARM OUTPUT		
- MANUAL RECORD		
	Delete Group	
	Refresh	
ADDTIONAL FUNCTION		
TEXT OVERLAY		
Auto Register		
Preferred DNS		

### Figure 4-48 Account Management Menu

## **Auto Maintenance**

Here you can select auto reboot and auto delete old files interval from the dropdown list.

## Figure 4-49 Auto Maintenance Menu

Configuration	×
Configuration Configuration Control Panel Current Version Current Curr	AUTO MAINTAINAuto-Fleboot System
	SaveRefresh

## Snapshot

Snapshot interface is shown as in *Figure 4-50*.

## Figure 4-50 Snapshot

Configuration		-				x
Sontrol Panel				SNAPSHOT		_
QUERY SYSTEM INFO	Channel	Channel 01	•			
HDD INFO	Snapshot mode	Timing	•	Enable		
LOG	Frame Rate	3S/F	•			
GENERAL	Resolution	CIF	•			
- SCHEDULE	Quality	4	-			
RS232						
ALARM						
DETECT						
DEFAULT/BACKUP						
ADVANCED						
- ABNORMALITY						
ALARM OUTPUT						
ACCOUNT						
SNAPSHOT						
VIDEO MATRIX						
ADDTIONAL FUNCTION     TEXT OVERLAY	Сору				Save Refresh	1
- 📴 Auto Register						
Preferred DNS						

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	It is the monitor channel.
Snapshot mode	There are two modes: Timing and activation.
Frame rate	You can select from the dropdown list. The value ranges from 1f/s to 7f/s.
Resolution	You can select from the dropdown list. All channel support D1/HD1/2CIF/CIF/QCIF.
Quality	You can select from the dropdown list. Here is for you to set video quality. There are six options: 10%, 30%, 50%, 60%, 80%, 100%. 100% is the best quality.

# Abnormality

The abnormality interface is shown as below.

Configuration			<b>— X</b> —
📃 Control Panel		ABNORMAL	YTL
🖶 📝 QUERY SYSTEM INFO			
- 📝 VERSION			
	Event Type	No Disk 🔹 🔽	
LOG			
E SETTING			
GENERAL			
🛅 ENCODE	Alam Out	1 2 3	
CHEDULE		·	
📔 RS232			
E DETWORK	Dalay	2 sec. 1~3600	Alam Upload
- DETECT			
- DEFAULT/ZOOM	Send Email	<b>E a u</b>	<b>—</b> •
	Send Email	Show Message	Buzzer
E S ADVANCED			
MANUAL RECORD			
SNAPSHOT			
AUTO MAINTAIN			
VIDEO MATRIX			
TEXT OVERLAY			Save Refresh
- 🗀 Auto Register			
Preferred DNS			

## Figure 4-51 Abnormity Setup Menu

Please refer to the following sheet for detailed information.

Parameter	Function
Event Type	The abnormal events include: no disk, no space, disk error, net error.
	You need to draw a circle to enable this function.
Normal Out	The corresponding alarm activation output channel when alarm occurs, There are six channels.
Latch	The alarm output can delay for the specified time after alarm stops. Then system disables alarm and corresponding activation output.
_	The value ranges from 1s to 300s.
Send email	If you enable this function, system can send out email to alarm the specified user.
Alarm upload	System can upload the alarm signal to the network (includes the alarm centre.)
Show message	System pops up the alarm messages in the monitor interface.

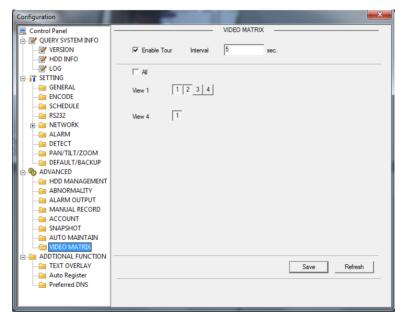
Parameter	Function
Buzzer	Once you check the box here, the buzzer will beep when an alarm occurred.

## **Matrix Spot**

Here you can set video matrix output tour channel and corresponding interval.

It supports 1/4/8-window mode and you can input the interval here.

## Figure 4-52 Matrix Config



# **Additional Function**

# **Preferred DNS**

Here you can set server or local operator DNS address.

Figure 4-53 DNS

Configuration		
Control Panel		
. QUERY SYSTEM INFO		
VERSION		
LOG		
ETTING		
GENERAL	Preferred DNS 8 . 8 . 8	
ENCODE		
SCHEDULE		
RS232	Alternate DNS 8 . 8 . 4 . 4	
I NETWORK		
ALARM		
🗀 DETECT		
PAN/TILT/ZOOM		
DEFAULT/BACKUP		
🖶 🌯 ADVANCED		
📔 HDD MANAGEMENT		
📔 ABNORMALITY		
🗀 ALARM OUTPUT		
🧰 MANUAL RECORD		
COUNT		
SNAPSHOT		
🛅 AUTO MAINTAIN		
VIDEO MATRIX		
🖻 🧰 ADDTIONAL FUNCTION		
TEXT OVERLAY	Save Refresh	
Auto Register		
Preferred DNS		
L	]	

# **Card Overlay**

It is the same with the *Card Overlay* function. It is mainly for financial areas to Sniffer, information parse and character overlay. The ATM/POS interface is shown as in *Figure 4-54*.

Source IP refers to host IP address that sends out information (usually it is the device host connected to the VIDEO ENCODER.)

Destination IP refers to other systems that receive information.

There are total four groups IP. The record channel applies to one group (optional) only.

Six frame ID groups verification can guarantee information validity and legal.

The start position, length and data can be set according to your protocol and data packet. There are total four fields.

## Figure 4-54 CARD OVERLAY

Configuration	1 (m. 16)	
Control Panel UUERY SYSTEM INFO VERSION W HDD INFO	Sniffer Mode	сом
LOG E T SETTING GENERAL	Protocol	NONE
ENCODE SCHEDULE RS232	Setting	Set Com
	Overlay Channel	1 2 3 4
DETECT DETECT DEFAULT/ZOOM DEFAULT/BACKUP	Overlay Mode	Preview V ENCODE
ADVANCED     HDD MANAGEMENT     ANORMALITY     ALARM OUTPUT     MANUAL RECORD     ACCOUNT     ACCOUNT     ALTO MAINTAIN	Overlay Position	Left Top 💌
ADDEO MATRIX     ADDIONAL FUNCTION     CONTINUATION      CONTINUATION     CONTINUATION		Save Refresh

# **Auto Register**

Auto register interface is shown as below.

## Figure 4-55 Auto Register

Configuration		<u> </u>
📃 Control Panel		
QUERY SYSTEM INFO		
HDD INFO		
LOG	✓ Enable	
E SETTING		
GENERAL	No. 1	
ENCODE		
SCHEDULE		
RS232	IP 0.0.0	
E NETWORK		
ALARM	8000	
DETECT	Port	
PAN/TILT/ZOOM		
DEFAULT/BACKUP	Device ID 0	
ADVANCED		
ALARM OUTPUT		
MANUAL RECORD		
ACCOUNT		
ADDTIONAL FUNCTION		
TEXT OVERLAY	Save	
Auto Register		
Preferred DNS		

Parameter	Function
Enable	Enable auto register function.
No.	Device management server number.
IP	Device management server IP address.
Port	Server port number.
Device ID	Device ID in the device management server.

Please refer to the following sheet for detailed information.

# Search

Click search button, you can see an interface is shown as in Figure 4-56.

The record type includes the general record, alarm record, motion detect record, local record, picture, card number record.

Please select record playback mode, and then select start time, end time and channel. Then please click search button, you can see the corresponding files in the list.

### Figure 4-56 Record Search Menu

Configuration	
Control Panel QUERY SYSTEM INFO GENERAL GENERA	Prefered DNS         8         8         8         8           Atemate DNS         8         8         4         4
	Save Refresh

Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in *Figure 4-57*, then you can specify file name and path to download the file(s) to your local pc.

### Figure 4-57 Record Save Menu

iave As			2
Save in: 🚺 My Comput My Docume	ter		<b>_</b> r
Wy Networ		5	
File <u>n</u> ame:	1		Save
Save as <u>t</u> ype:	dav Files(*.dav)	•	Cancel

Now you can see system begins download and the download button becomes stop button. You can click it to terminate current operation.

At the bottom of the interface, there is a process bar for your reference.

### Figure 4-58 Record Search Menu (Saving)

Туре	P	arameter —					One	ratio			
		legin Time	2011-12-1	8	19:04:2	6 ÷		earch.		Plavback	
		egin lime	12-1	° _≭	闭 <sup>19:04:3</sup>	•		search		riayback	
C A	larm B	nd Time	2011-12-1	9 🔻	19:04:3	6 :	Do	wnload	I Typ	e File 🔻	1
C M	otion	hannel	A11	-						-	
СL			Jura	<u> </u>			_	D	ownlo	oad	_
~ P	icture							Open I	local	Record	
							11 =				
0.0	ard				Earlies	st Rec	1 _	¥	aterm	ark	_
- /	1.000									(	
S/N	File Siz.				nd Time			Type		Cha.	
1	3530		-19 10:03:		011-12-19			Regul		1	
2	1920		-19 10:10:		011-12-19			Regul		1	
3	640		-19 10:17:		011-12-19			Regul		1	
4	16574		-19 10:19:-		011-12-19			Regul		1	
5 6	24080		-19 11:00:0		011-12-19			Regul		1	
6 7	24629		-19 12:00:0		011-12-19			Regul Regul		1	
8	24526		-19 13:000		011-12-19			Regul		1	
9	24164		-19 14:00:0		011-12-19			Regul		1	
9	24262		-19 15:00:		011-12-19			Regul		1	
11	24335		-19 17:00:		011-12-19			Regul		1	
12	24618		-19 18:00:		011-12-19			Regul		1	
13	2496		-19 19:00:		011-12-19			Regul		1	
14	3622		-19 10:03:		011-12-19			Regul		2	
15	1984		-19 10:10:		011-12-19			Regul		2	
16	640	2011-12	-19 10:17:0	03 2	011-12-19	10:17	36	Regul	ar	2	
<								j		>	·
							P	age Up		Page Do	~
	Device		▼ Se	arch	Backup 7	Гуре	DAV		•		
ackup		уре	Bus	Le	ft Space(K	B) T	otal Sj		Dire	ctory	
ackup Devic	e ID T										1
	e ID T										
	e ID T										
Devic	e ID T									n	
	e ID   T									)	

When download completed, you can see a dialogue box shown as in *Figure 4-59*. Please click **OK** to exit.

## Figure 4-59 Message Box after Download Completed



Please refer to the following sheet for detailed information.

Туре	Parameter	Function
Туре	Record	Search general record, alarm record and motion detection record.
	Alarm	Search alarm record.
	Motion Detection	Search motion detection record.
	Local	Search local record.
	Snapshot	Search snapshot file.
	Card	Search card file.
Item	Begin time	Set the file start time. You can select from the dropdown list.
	End time	Set the file end time. You can select from the dropdown list
	Channel	Select the channel from the dropdown list.
Operation	Search	Click this button you can view the recorded file matched your requirements. There are 100 files in one screen. You can use pg up/down button to view more files.
	Playback	Select the file first and then click playback button to view the video.
	Download type	Download by file: Select the file(s) and then click download button. Download by time: Download the recorded file(s) within your specified period.

Туре	Parameter	Function
	Download	Select the file you need (multiple choices) and then click download button, you can see system pops up a dialogue box. See <i>Figure</i> 4-57
		Input the downloaded file name, specify the path and then click <b>OK</b> button. You can see system begins download and the download becomes stop button. There is a progress bar for your reference.
	Open local record	Select local record to play.
	Earliest record	Select a channel first and then click the earliest record button; you can view the earliest record of the current channel in the HDD.
Multiple- channel playback		System supports playback one file in several monitor channels.

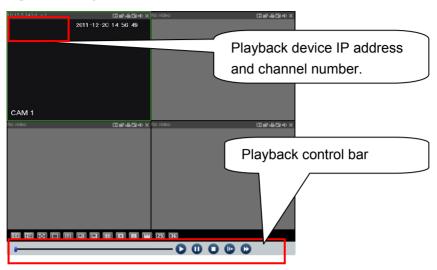
During the playback process, you can see there are control buttons such as play, pause, and stop. Slow play and fast play in the play process bar. You can view current playback file channel name, time and data statistics.

In the search result interface, you can select one or more files to download to your local PC.

The playback control bar is shown as below.

- 1: Play
- 2: Pause
- 3: Stop
- 4: Slow play
- 5: Fast play

### Figure 4-60 Playback Menu



# Alarm

Click alarm function, you can see an interface is shown as in *Figure 4-61*. Here you can set device alarm type and alarm sound setup.

### Figure 4-61 Alarm Function Menu

Alarn Event Type Video Loss Motion Det Disk Full Disk Error Video Mask		larm	Operation Listen AL Alarm Sound Sound Pop Sound Path	arm 🖵 Video Pop-	up   Prompt
Time	Device ID	Event	Туре	Alarm Port/Channel	
1					

Please refer to the following sheet for detailed information.

Please make sure current device can upload the alarm.

Туре	Parameter	Function
Alarm Type	Video loss	System alarms when video loss occurs.
Type	Motion detection	System alarms when motion detection alarm occurs,
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.
	Video masking	System alarms when camera is viciously masking.
	External alarm	Alarm input device sends out alarm.
Operation	Listen alarm	System notifies web when alarm occurs (you select from the above event type), and then web can notify user.
	Video pop-up	When alarm occurs, system auto enables video monitor. This function only applies to video detection alarm (motion detection, video loss and camera masking).
	Prompt	Automatically pops up alarm dialogue box.
	Sound pop-up	System sends out alarm sound when alarm occurs. You can specify as you wish.
	Sound Path	Here you can specify alarm sound file.

# About

Click about button, you can view current web client information.

#### Figure 4-62 Web Client Information

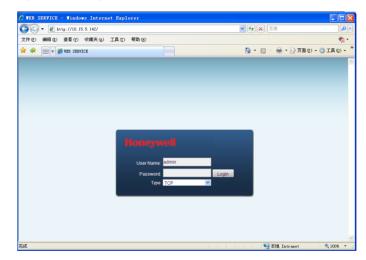
About			X
	Webrec Control,	Version: 2.1.7.15	
	NETSDK,	Version: 3.3.4.1	
	PLAYSDK,	Version: 3.26.0.114	
	Copyrig	pht (C) 2008	

# Log out

Click log out button, system goes back to log in interface.

You need to input user name and password to login again.

### Figure 4-63 Log out Interface



# **Un-install Web Control**

You can use web un-install tool "uninstall web.bat" to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.

# **5 Overview of Navigation and Controls**



All the operations except front panel operations listed below are based on the HUSS-E8X. All operations about front panel are the function of HUSS-E2X and HUSS-E4X.

Before operation, please make sure:

- You have properly installed HDD and all the cable connections.
- The provided input power and the device power are matched.
- The external power shall be DC 12V.
- Always use the stable current, if necessary UPS is a best alternative measure.

# Login, Logout & Main Menu

# Login

After system booted up, system pops up the startup wizard.

Click the Cancel button; you can go to the system login interface.

Click the **Next Step** button; you can go to t the startup wizard interface. Here you can set the system basic information. See *Figure 5-1*.

### Figure 5-1 Startup Wizard



The system login interface is shown as in Figure 5-2.

System consists of four accounts:

- Username: admin. Password: admin. (administrator, local and network)
- Username: 888888. Password: 888888. (administrator, local only)
- Username: 666666. Passwords: 666666(Lower authority user who can only monitor, playback, backup and etc.)
- Username: default. Password: default(hidden user)

You can use USB mouse, front panel, remote control or keyboard to input. About input method: Click **123** to switch between numeral, English character (small/capitalized) and denotation.



For security reason, please modify password after you first login.

Within 30 minutes, three times login failure will result in system alarm and five times login failure will result in account lock!

### Figure 5-2 Menu Login



# Main Menu

After you logged in, the system main menu is shown as below. See *Figure 5-3*.

There are total six icons: search, info, setting, backup, advanced and shutdown.

You can move the cursor to highlight the icon, and then double click mouse to enter the sub-menu.

### Figure 5-3 Main Menu



# Logout

There are two ways for you to log out.

One is from menu option:

In the main menu, click shutdown button, you can see an interface is shown as below. See *Figure 5-4*.

#### Figure 5-4 Logout Menu

SHUTDOWN
Logout menu user Iv
Password is needed to re-enter the menu after logout.
OK Cancel

There are several options for you. See Figure 5-5.

## **Overview of Navigation and Controls**

#### Figure 5-5 Options for Logout

Logout menu user I-
Logout menu user
Shutdown
Restart system
Switch user

The other ways is to press power button on the front panel for at least 3 seconds, system will stop all operations. Then you can click the power button in the rear panel to turn off the VIDEO ENCODER.

## **Auto Resume after Power Failure**

The system can automatically backup video and resume previous working status after power failure.

## **Replace Button Battery**

Please make sure to use the same battery model if possible.

We recommend replace battery regularly (such as one-year) to guarantee system time accuracy.



Before replacement, please save the system setup, otherwise, you may lose the data completely!

# **Manual Record**

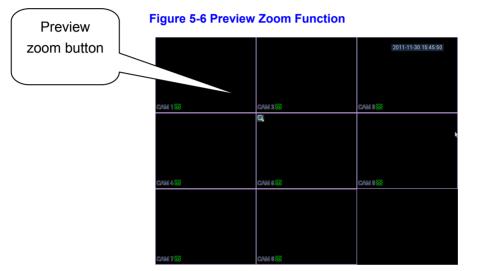
# **Live Viewing**

After you logged in, the system is in live viewing mode. You can see system date, time and channel name. If you want to change system date and time, you can refer to general settings (Main Menu $\rightarrow$ Setting $\rightarrow$ General). If you want to modify the channel name, please refer to the display settings (Main Menu $\rightarrow$ Setting $\rightarrow$ Display)

1	00	Recording status	3	?	Video loss
2	$\square$	Motion detection	4		Camera lock

# **Preview Zoom Function**

Move your mouse to the left top corner of the preview interface; you can see the preview zoom button. See *Figure 5-6*. Left click the icon; you can see a hook icon. Now you have enabled the preview zoom function. You can drag the mouse to zoom in the image.



# **Manual record**



You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

## Manual record menu

There are two ways for you to go to manual record menu.

- Right click mouse or in the main menu, Advanced→Manual Record.
- In live viewing mode, click **record** button in the front panel or record button in the remote control.

Manual record menu is shown as in Figure 5-7.

## **Basic operation**

There are three statuses: schedule/manual/stop. Please highlight icon " $\bigcirc$ " to select corresponding channel.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu→Setting→Schedule)
- Stop: All channels stop recording.

### Figure 5-7 Recording Control Menu

MANUAL REC	ORD	
Record Mode Schedule Manual Closed		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
		OK Cancel

## Enable/disable record

Please check current channel status: "o" means it is not in recording status, "•" means it is in recording status.

You can use mouse or direction key to highlight channel number. See Figure 5-8.

#### Figure 5-8 Different Status of Manual Record



## Enable all channel recording

Highlight o below All, you can enable all channel recording.

All channel schedule record

Please highlight "ALL" after "Schedule". See Figure 5-9.

When system is in schedule recording, all channels will record as you have previously set (Main menu $\rightarrow$ Setting $\rightarrow$ Schedule).

The corresponding indication light in front panel will turn on.

#### Figure 5-9 Automatic Recording in All Channels

MANUAL REC	ORD	
Record Mode	All	1 2 3 4 5 6 7 8
Schedule	0	0000000
Manual	ō	0000000
Closed	0	0000000
		OK Cancel

• All channel manual record

Please highlight "ALL" after "Manual." See Figure 5-10.

When system is in manual recording, all scheduled set up you have set in will be null (Main menu $\rightarrow$ Setting $\rightarrow$ Schedule).

You can see indication light in front panel turns on, system begins manual record now.

#### Figure 5-10 Start Manual Record in All Channels

MANUAL RECORD		
Record Mode	All	
Schedule	0	00000000
Manual	۲	•••••
Closed	0	0000000
		OK Cancel

## Stop all channel recording

Please highlight "ALL" after "Stop". See Figure 5-11.

System stops all channel recording no matter which mode you have set in the menu (Main menu $\rightarrow$ Setting $\rightarrow$ Schedule)

#### Figure 5-11 Stop Recording in All Channels



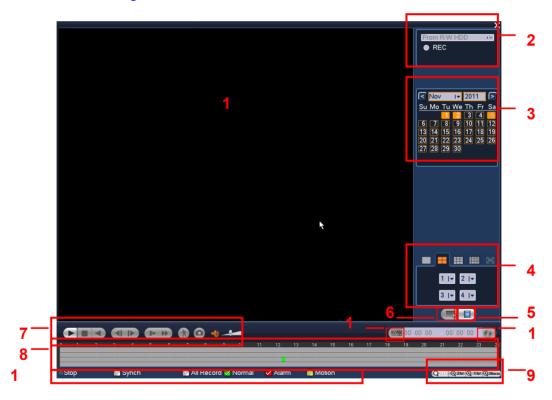
# Search & Playback

Click search button in the main menu, search interface is shown as below. See *Figure 5-12*.

Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file.
- M: Motion detection recording file

### Figure 5-12 Record Search Menu



#### Please refer to the following sheet for more information.

SN	Name	Function
1	Display window	Here is to display the searched picture or file.

		Support 1/4/9-window playback.
2	Search type	Here you can select to search the picture or the recorded file. When there is displayed picture on the left pane, you can set the corresponding setup
3	Calendar	The blue highlighted date means there is picture or file. Otherwise, there is no picture or file. In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.
4	Playback mode and channel selection pane.	<ul> <li>Playback mode: 1/4/9. (It may vary due to different series.)</li> <li>In 1-window playback mode: you can select 1-8 channels.</li> <li>In 4-window playback mode: you can select 4 channels according to your requirement.</li> <li>In 9-window playback mode,</li> <li>The time bar will change once you modify the playback mode or the channel option.</li> </ul>
5	File list switch button	Double click it; you can view the record file list of current day. The file list is to display the first channel of the record file. The system can display max 128 files in one time. Use the ▲/▼ or the mouse to view the file. Select one item, and then double click the mouse or click the ENTER button to playback. You can input the period in the following interface to begin accurate search. File type: R—regular record; A—external alarm record; M—Motion detect record. 00:00:00
6	Card number search	The card number search interface is shown as below.
7	Playback control pane.	<ul> <li>Play/Pause</li> <li>► / II There are three ways for you to begin playback.</li> <li>The play button</li> </ul>

## **Overview of Navigation and Controls**

	Double c	lick the valid period of the time bar.				
	Double c	lick the item in the file list.				
	In slow p	lay mode, click it to switch between play/pause.				
•	Stop					
	Backward	d play				
◀		I play mode, left click the button, the file begins backward play. gain to pause current play.				
	In backwa	ard play mode, click ►/ II to restore normal play.				
1		ick mode, click it to play the next or the previous section. You continuously when you are watching the files from the same				
◀/▶		I play mode, when you pause current play, you can click ◀   to begin frame by frame playback.				
	In frame by frame playback mode, click ►/ II to restore normal playback.					
►	Slow play	y				
		ick mode, click it to realize various slow play modes such as 1, slow play 2, and etc.				
	Fast forw	/ard				
••		back mode, click to realize various fast play modes such as fast fast play 2 and etc.				
Note: 7	The actual p	play speed has relationship with the software version.				
		The smart search can be enabled only under 1-window's				
		playback case.				
×		playback case. When system is playback, you can select a zone in the window, and then Click the "smart search" button to begin smart search. You can get all the recordings of motion				
Smart s	search	playback case. When system is playback, you can select a zone in the window, and then Click the "smart search" button to begin smart search. You can get all the recordings of motion happened in the selected zone within a natural day(From the beginning time to 23:59:59)				
Smart s	search	playback case. When system is playback, you can select a zone in the window, and then Click the "smart search" button to begin smart search. You can get all the recordings of motion happened in the selected zone within a natural day(From the beginning time to 23:59:59) "smart search" button isn't available once the smart search o				
Smart s	search	playback case. When system is playback, you can select a zone in the window, and then Click the "smart search" button to begin smart search. You can get all the recordings of motion happened in the selected zone within a natural day(From the beginning time to 23:59:59) "smart search" button isn't available once the smart search o motion detect play has begun. The system will take the whole play zone as the motion				

file list operation will stop current motion detect play.

			The volume of the playback				
			Click the <b>snapshot</b> button in the full-screen mode, the system can snapshot 1 picture per second.				
		It is to display t	he record type and its period in current search criteria.				
			ayback mode, there are corresponding four time bars. In other e, there is only one time bar.				
8	Time bar	Use the mouse playback.	to click one point of the color zone in the time bar, system begins				
		The time bar zo	The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.				
			r stands for the regular record file. The red color stands for the record file. The yellow stands for the motion detect record file.				
	Time bar unit		udes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the I can accurately set the time in the time bar to playback the				
9			beginning with 0 o'clock when you are setting the configuration. boms in the period of the current playback time when you are				
10	Backup	from four chann	s) you want to backup from the file list. System max supports files nels. Then click the <b>backup</b> button, now you can see the backup e <b>start</b> button to begin the backup operation.				
10	Васкар	Check the file a	again you can cancel current selection.				
		System max su	upports to display 32 files from one channel.				
		It is to edit the f	file.				
11	Clip	edit. You can s corresponding	e file you want to edit and then click this button when you want to ee the corresponding slide bar in the time bar of the channel. You can adjust the slide bar or input the accurate time to time. Click this button again and then save current contents in a				
12	Record type	In any play mo	de, the time bar will change once you modify the search type.				
Other	<sup>-</sup> Functions						

## **Overview of Navigation and Controls**

14	Other channel synchronization switch to play when playback	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
15	Digital zoom	When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to realize digital zoom. You can right click mouse to exit.



All the operations here (such as playback speed, channel, time and progress) have relationship with hardware version. Some series VIDEO ENCODERs do not support some functions or playback speeds.

## Schedule

After system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

## **Schedule Menu**

In the main menu, from setting to schedule, you can go to schedule menu. See *Figure 5-13*.

- Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.
- Week day: There are eight options: ranges from Saturday to Sunday and all.
- Pre-record: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
- Redundancy: System supports redundancy backup function. It allows you backup recorded file in two disks. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Advanced->HDD Management) Please refer to *Redundancy* for detailed information.
- Snapshot: You can enable this function to snapshoot image when alarm occurs.
- Record types: There are four types: regular, motion detection (MD), Alarm, MD & alarm.

Please highlight icon to select the corresponding function. After completing all the setups please click **save** button, system goes back to the previous menu.

At the bottom of the menu, there are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The blue means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.

### Figure 5-13 Schedule Setting



### **Quick Setup**

This function allows you to copy one channel setup to another. After setting in channel 1, you can click paste button and turn to channel 2 and then click copy button. You can finish setting for one channel and then click save button or you can finish all setup and then click save button to memorize all the settings.

### Redundancy

This function will enable when two HDDs are installed.

Redundancy function allows you to memorize record file in several disks. When there is file damage occurred in one disk, there is a spare one in the other disk. You can use this function to maintain data reliability and safety.

In the main menu, from Setting to Schedule, you can highlight redundancy button to enable this function. See *Figure 5-13*.

In the main menu, from Advanced to HDD management, you can set one or more disk(s) as redundant. You can select from the dropdown list. See *Figure 5-14*. System auto overwrites old files once hard disk is full.

Please note only read/write disk or read-only disk can backup file and support file search function, so you need to set at least one read-write disk otherwise you cannot record video.

#### About redundancy setup:

- If current channel is not recording, current setup gets activated when the channel begin recording the next time.
- If current channel is recording now, current setup will get activated right away, the current file will be packet and form a file, then system begins recording as you have just set.
- After all the setups please click save button, system goes back to the previous menu.

#### 21 8 Ľ =1 HDD MANAGE SATA 1 2 Alarm Set HDD Setting Alarm Release HDD Channel 00 HDD No Set to Redundant I 1 Redundant Туре Status Normal 465.74 GB Capacity Record Time 11-01-04 19:07:35 / 11-04-15 08:09:01 00-01-01 00:38:17 / 00-01-01 00:38:18 00-01-01 00:00:24 / 00-01-01 03:37:25 11-10-27 14:54:17 / 11-10-27 19:33:45 OK

#### Figure 5-14 redundancy setup

#### Playback or search in the redundant disk.

There are two ways for you to playback or search in the redundant disk.

- Set redundant disk(s) as read-only disk or read-write disk (Main menu→Advanced→HDD management). See Figure 5-14.System needs to reboot to get setup activated. Now you can search or playback file in redundant disk.
- Dismantle the disk and play it in another PC.

## **Snapshot**

### Schedule Snapshot

In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.

In General interface please input upload interval.

In Schedule interface, please enable snapshot function.

Please refer to the following figure for detailed information. See Figure 5-15

### Figure 5-15 Schedule Snapshot Setting

SNA	PSHOT
Mode	e Timing I
Image	e Size D1
Image	e Quality 4
Snap	shot Frequency 1 SPL
	OK Cancel
Honey	
GENE	
System Ti	ime 21 / 02 / 2011   14 : 24 : 25 Save
Date Form	nat DD MM YYYY I▼ Shapshot 2 sec.
Date Sepa	arator / I- 🗸 DST (Set
Time Forr	mat 24-HOUR I
Language	
HDD Full	Overwrite I+
Pack Dura	ation 30 min.
Device No	o. 8
Video Sta	ndard PAL I
GUI Stand	lby 10 min.
Default	Save Cancel
Honeyw	
SCHED	
Channel	1 🔽 PreRecord 4 sec. Redundancy 🔵 Snapshot 🗹
Week Day	
Period 1	00:00 -24:00
Period 2	
Period 3 Period 4	
Period 4 Period 5	00 :00 -24 :00
Period 6	
	Regular MD Alarm MD&Alarm

## **Activation Snapshot**

Please follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurs.

- In Encode interface, click snapshot button to input snapshot mode, size, quality and frequency.
- In General interface please input upload interval.
- In Detect interface please enable snapshot function for specified channels. Or in alarm interface please enable snapshot function for specified channels.

Please refer to the following figure for detailed information. See *Figure 5-16*.

SNAPSHOT					
Mode	Trigg	jer 🔽 🔽			
Image Size	D1				
Image Quality	4				
Snapshot Fre	quency 1 SP	L IT			
	ОК	Cancel	)		
ļ					
Honeywell	ir 🗐		A	<b>K</b>	<b>K</b>
DETECT			S I	2	
Event Type	Motion Detect	Channel	1	I.	
Enable		, ,			
Region	Select	Sensitivity	3	IT	
Period	Set				
Alarm Out	\$23	Delay	10	sec.	
Show Message		Send Email			
Record Channe	823456	78			
PTZ Activation	Select	Delay	10	sec.	
Tour	423456	78			
Spanshot	828466	ព ខ			R
	<₽				
Buzzer					
Copy F	Paste Defau	ılt		Save	Cancel

### Figure 5-16 Activation Snapshot Setting

## Honeywell

Honeywell ALARM	<i>R</i> 🔋	ي 🕄	<u> I</u>	5	<u>e</u>
Event Type	Local Alarm	🕞 Alarm In	1	I <b>~</b>	
Enable		 Туре	Normal C	pen I 🗸	
Period	Set				
Alarm Out	423	DNay	10	sec.	
🗐 Show Message		🔲 Send Email			
Record Channel	423450	678			
PTZ Activation	Select	Delay	10	sec.	
Tour	423450	678			
Snapshot	V 2 3 4 5 8	5 7 8			
🔓 video iviatrix	<b>N</b>				
Buzzer					
Сору Р	aste Defa	ault		Save	Cancel

### Priority

Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.

## **Image FTP**

In Network interface, you can set FTP server information. Please enable FTP function and then click save button. See *Figure 5-17*.

Please boot up corresponding FTP server.

Please enable schedule snapshot (*Figure 5-15*) or activation snapshot (*Figure 5-16*) first, now system can upload the image file to the FTP server.

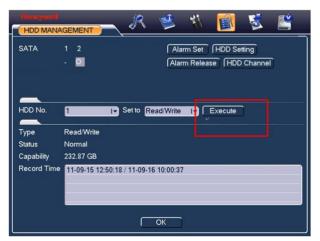
Honeywell FTP	<u> </u>	
Ту <mark>р</mark> е	Record FTP I	
Server IP	0 · 0 · 0 · 0 Port 21 💦	
User Name Password Remote Directory	Anonymous File Length	Please input the corresponding information here, if you just upload the image
Channel Weekday	1 I▼ Thu I▼ Alarm Motion Gene	FTP.
Time Period 1		
Time Period 2	00 :00 -24 :00	

### Figure 5-17 Image FTP Setting

## Snapshot Disk (For special series only)

Set one disk as snapshot (Main menu $\rightarrow$ Advanced $\rightarrow$ HDD management) and then click execute button. See *Figure 5-18*. System needs to reboot to get current setup activated.

### Figure 5-18 Snapshot Disk Setting



All scheduled snapshot files or activated snapshot files will be memorized in the snapshot disk.

## Honeywell

You can search the corresponding images via Web. See *Figure 5-19*.

### Figure 5-19 Search Image via Web

Select search	Search 🔀	
engine here	Type       Operation         Image: Second Control Alarm       Begin Time       2011-12-20 •       10:08:27 •         Image: Control Channel All       Image: Control Channel All       Image: Control Channel All       Image: Control Channel All         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback         Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback       Image: Control Channel Flayback<	Select a file and then click here to view image content.
	S/N       File Siz       Begin Time       End Time       Type       Cha         You can see result here. Double click file name, you can view the image content.       Image: Content text of the second	
	Page	x 100 files in one ere to view more.

## Detect

## Go to Detect Menu

In the main menu, from Setting to Detect, you can see motion detect interface. See *Figure 5-20*. There are three detection types: Motion Detection, Video Loss, and Camera Masking.

## **Motion Detect**

Detection menu is shown as below. See Figure 5-20

- Event type: from the dropdown list you can select motion detection type.
- Channel: select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface(Main Menu→Setting→Schedule) and schedule record in manual record interface(Main Menu→Advanced→Manual Record)
- Delay: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- Region: Click select button, the interface is shown as in *Figure 5-21*. Here you can set motion detection zone. There are 396(PAL)/330(NTSC) small zones. The orange zone is current cursor position. Grey zone is the motion detection zone. Black zone is the disarmed zone. You can click FN button to switch between the armed mode and disarmed mode. In arm mode, you can click the direction buttons to move the orange rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.



For HUSS-E8X, you must operate through mouse because the front panel only have power button.

- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.

- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as going to preset tour &pattern when there is an alarm. Click "select" button, you can see an interface is shown as in *Figure 5-22*.
- Period: Click set button, you can see an interface is shown as in *Figure 5-23*. Here you can set for business day and non-business day. In *Figure 5-23* click set button, you can see an interface is shown as in *Figure 5-24*. Here you can set your own setup for business day and non-business day.
- Alarm output: when alarm occurred, system enables peripheral alarm devices.
- Tour: Here you can enable tour function when alarm occurs. System onewindow tour. Please go to Display for tour interval setup.
- Snapshot: You can enable this function to snapshoot image when alarm occurs.

Please highlight icon to select the corresponding function. After all the setups please click **save** button, system goes back to the previous menu.



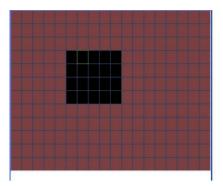
In motion detection mode, you cannot use copy/paste to set channel setup since the video in each channel may not be the same.

In *Figure 5-21*, you can left click mouse and then drag it to set a region for motion detection. Click through mouse to switch between arm/withdraw motion detection. After setting, click **enter** button to exit.

### Figure 5-20 Motion Detect Setting

Honeywell	R 😫	<b>i</b>	<b>A</b>	5	<b></b>
Event Type	Motion Detect I	Channel	1	17	
Enable	<ul><li>✓</li></ul>				
Region	Select	Sensitivity	3	I.	
Period	Set				
Alarm Out	423	Delay	10	sec.	
Show Message		Send Email			
Record Channel	423456	78			
PTZ Activation	Select	Delay	10	sec.	
Tour	423456	78			
Snapshot	423456	78			<b>₩</b>
	∕				
Buzzer					
Copy Pa	aste Defaul	t		Save (	Cancel

### Figure 5-21 Motion Detection Zone Setting



### Figure 5-22 PTZ Activation Setting



### Figure 5-23 Armed Period Setting

Honeywell Set	~ 49	Ľ	<i>ii</i>		🛃 🗳
Work Da ✓ 00 :00 ○ 00 :00 ○ 00 :00	y l -24 :00 -24 :00 -24 :00	Set	00 : 00 00 : 00 00 : 00	-24 :0 -24 :0 -24 :0	0
Sun Mon Tue Wed Thu Fri Sat		6 9	12 15 12 15 12 15	18 21 18 21	24
Сору	Paste	Def	ault	ОК	Cancel



Set							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Work Day	0	•	•	•	•	۲	0
Free Day	•	0	0	0	0	0	•
	ſ	Save		í	Cancel		
		Jave			Cancer		

### **Video Loss**

In *Figure 5-20*, select video loss from the type list. You can see the interface is shown as in *Figure 5-25*. This function allows you to be informed when video loss phenomenon occurs. You can enable alarm output channel and then enable show message function.

Tips:

You can enable preset activation operation when video loss occurs.

Please refer to motion detection chapter for detailed information.

### Figure 5-25 Video Loss Setting



## **Camera Masking**

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Camera masking interface is shown as in *Figure 5-26*.

### Tips:

You can enable tour/ PTZ activation operation when video loss occurs.

Please refer to *Motion Detect* for detailed information.



In Detection interface, copy/paste function is only valid for the same type, which means you cannot copy a channel setup in video loss mode to camera masking mode.

### Figure 5-26 Camera Masking Setting

Honeywell	R 🔮	3 📉	1	5	Ě
Event Type	Camera Maskil 🚽	Channel	1		
Enable	<				
		7			
Period	Set				
Alarm Out	123	Delay	10	sec.	
Show Message		Send Email			
Record Channel	123456	78			
PTZ Activation	Select	Delay	10	sec.	
Tour	123456	78			
Snapshot	423456	78			
Buzzer					
Copy P	aste Defau	lt		Save	Cancel

## **Alarm Setup and Alarm Activation**

Before operation, please make sure you have properly connected alarm devices such as buzzer.

### Go to alarm setup interface

In the main menu, from Setting to Alarm, you can see alarm setup interface. See *Figure 5-27*.

## Alarm setup

Alarm interface is shown as below. See Figure 5-27.

- Alarm in: Here is for you to select channel number.
- Event type: There are two types. One is local input and the other is network input.
- Type: normal open or normal close.
- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as going to preset, tour when there is an alarm. Click select button, you can see an interface is shown as in *Figure 5-28*.

- Period: Click set button, you can see an interface is shown as in *Figure 5-29*. Here you can set for business day and non-business day. In *Figure 5-29*, click set button, you can see an interface is shown as in *Figure 5-30*. Here you can set your own setup for business day and non-business day.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Send email: System can send out email to alert you when alarm occurs.
- Record channel: you can select proper channel to record alarm video (Multiple choices). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).
- Delay: Here is for you to set proper delay duration. Value ranges from 10 to 3600 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Tour: Here you can enable tour function when alarm occurs. System supports one-window tour. Please go to chapter Display for tour interval setup.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

For snapshot operation, please refer to Alarm.

Please highlight icon use to select the corresponding function. After setting all the setups please click **save** button, system goes back to the previous menu.

#### Figure 5-27 Local Alarm Setting

Honeywell ALARM	R 😫	- <b>(%</b> )	<u>A</u>	8	<b></b>
Event Type	Local Alarm I-	Alarm In	1	I <b>.</b>	
Enable	•	Туре	Normal Op	en I <del>v</del>	
Period	Set				
Alarm Out	123	DNay	10	sec.	
Show Message		Send Email			
Record Channel	\$23456	78			
PTZ Activation	Select	Delay	10	sec.	
Tour	\$23456	78			
Snapshot	\$23456	78			
■Video Matrix	₫				
Buzzer					
Copy P	aste Defau	lt		Save	Cancel

### Figure 5-28 PTZ Activation Settings

PTZ Ad	tivation				
CAM 1	None	IV 0	CAM 2	None	I <b>-</b> 0
CAM 3	None	1 0	CAM 4	None	IT 0
CAM 5	None	IT 0	CAM 6	None	IV 0
CAM 7	None	IT 0	CAM 8	None	IV 0
		OK	Canc	el	

### Figure 5-29 Period Setting

Honeywel Set		1	11	<u>i</u>	š 🗳
Work Da		Set			
00 :00	-24 :00		00 :00	-24 :00	
00:00	-24 :00		00 :00	-24 :00	
00 :00	-24 :00		00:00	-24 :00	
Sun	0 3 (	69	12 15	18 21 2	4
Mon Tue					
Wed Thu					
Fri Sat					
	0 3 (	69	12 15	18 21 2	4
Сору	Paste	Defa	ault	ОК	Cancel

### Figure 5-30 Business Days and Non-Business Days Settings

Set							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Work Day	0	•	۲	•	۲	•	0
Free Day	•	0	0	0	0	0	•
	,			,			
	ļ	Save		Ļ	Cancel		

## Backup

VIDEO ENCODER support USB device backup and network download. Here we introduce USB backup. You can refer to Web Client Operation chapter for network download backup operation.

### **Detect Device**

Click **backup** button, you can see an interface is shown as in *Figure 5-31*. Here is for you to view devices information.

You can view backup device name and its total space and free space. The device includes USB burner, flash disk, SD card, and portable HDD.

### Figure 5-31 Device Detection Menu of Backup



### **Backup**

Click **Backup** button and then select backup device set type, channel, file start time and end time.

Click **add** button, system begins search. All matched files are listed below. System automatically calculates the capacity needed and remained. See *Figure* 5-32.

System only backup files with a  $\sqrt{}$  before channel name. You can use FN (only on HUSS-E2X and HUSS-E4X) or cancel button to delete  $\sqrt{}$  after file serial number.

Click **backup** button, you can backup selected files. There is a process bar for you reference.

When the system completes to backup the recording file, you can see a dialogue box prompting successful backup.

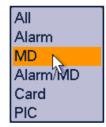


### Figure 5-32 Backup Menu with Search Results

Click **Start** button, system begins burning. At the same time, the Start button becomes stop button. You can view the remaining time and process bar at the left bottom.

- File format: Click the file format; you can see there are two options: DAV/ASF.
- Picture backup: Please set the corresponding time, channel and then select the type as PIC from the dropdown list. See *Figure 5-33*. Please click the Add button and then select the pictures. Click the Start button; you can copy the specified pictures to the selected portable devices.

### Figure 5-33 Select the Type



• One key backup: It includes three steps: the search, select all, start the backup. You can skip the above three steps and then copy all the searched files directly.

The file name format usually is: SN\_CH+channel number+time Y+M+D+H+M+S. In the file name, the YDM format is the same as you set in general interface. (Main Menu  $\rightarrow$ Setting  $\rightarrow$ General).File extension name is .dav.

### Tips:

During backup process, you can click **ESC** to exit current interface for other operation. The system will not terminate backup process.



When you click stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click stop system just backup five files, system only save the previous 5 files in the device (But you can view ten file names).

## **PTZ Control and Color Setup**



All the operations here are based on PELCOD protocol. For other protocols, there might be a little difference.

## **Cable Connection**

Please follow the procedures below to go on cable connection

- Connect the dome RS485 port to VIDEO ENCODER 485 port.
- Connect dome video output cable to VIDEO ENCODER video input port.
- Connect power adapter to the dome.

## **PTZ Setup**



The camera video should be in the current screen. Before setup, please check the following connections are right.

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with VIDEO ENCODER A (B) line.

Boot up the VIDEO ENCODER, input user name and password.

In the main menu, click **setting**, and then click **Pan/Tilt/Zoom Control** button. The interface is shown as in *Figure 5-34*. Here you can set the following items:

- Channel: select the current camera channel.
- Protocol: select corresponding PTZ protocol(such as PELCOD)

- Address: default address is 1.
- Baud rate: select corresponding baud rate. Default value is 9600.
- Data bits: select corresponding data bits. Default value is 8.
- Stop bits: select corresponding stop bits. Default value is 1.
- Parity: there are three options: odd/even/none. Default setup is none.

### Figure 5-34 PTZ Setting

Honeyw PAN/TI	xell 💦 🦗 😢 🕅 🗟 💆 💒
Channel Protocol Address Baudrate Data Bits	1 IT PELCOD IT 1 9600 IT 8 IT
Stop Bits Parity	1 I▼ None I▼ Paste Default Save Cancel

After completing all the setting please click save button.

In one window display mode, right click mouse (click "**FN**" Button in the front panel or click "**FN**" key in the remote control). The interface is shown as in *Figure 5-35*.

### Figure 5-35 Context Menu



Click Pan/Tilt/Zoom, the interface is shown as below. See Figure 5-36.

Here you can set the following items:

- Step: value ranges from 1 to 8.
- Zoom
- Focus
- Iris

Please click icon and to adjust zoom, focus and iris.

### Figure 5-36 PTZ Control Menu



In *Figure 5-36*, please click direction arrows (See *Figure 5-37*) to adjust PTZ position. There are total 8 direction arrows.

### Figure 5-37 Direction Arrows



Here is a sheet for you reference.

Name	Function key	function	Shortcut key	Function key	function	Shortcut Key
Zoom	0	Near	Þ	Đ	Far	**
Focus	0	Near	◀	<b>(7)</b>	Far	▶
Iris	0	Close	∥◀	<b>(</b>	Open	▶

## **Preset/ Patrol/Pattern/Scan**

In *Figure 5-36*, please click the "**set**" button. The interface is shown as below. See *Figure 5-38*.

Here you can set the following items:

- Preset
- Tour
- Pattern

• Border

### Figure 5-38 PTZ Setup Menu

PAN/TILT/2	200M
Function	Preset 1
Preset	Patrol No.
Tour	
Pattern	Set
Border	Del Preset

In *Figure 5-36*, click page switch button, the interface is shown as in *Figure 5-39*. Here you can activate the following functions:

- Preset
- Tour
- Pattern(reserved)
- Auto scan
- Auto pan
- Flip
- Reset
- Page switch

### Figure 5-39 PTZ Function Menu

PAN/TILT/ZOOM	
No. 0	Preset
Pattern	Tour
AutoScan	AutoPan
Flip	Reset
Page Switch	



.

- Preset, tour and pattern all need the value to be the control parameter. You can define it as you require. You need to refer to your speed dome user's manual for Aux
- definition. In some cases, it can be used for special process.
- The following setups are usually operated in the *Figure 5-36*, *Figure 5-38*and *Figure 5-39*.

## **Preset Setup**

In *Figure 5-36*, use eight direction arrows to adjust camera to the proper position.

In *Figure 5-38*, click **preset** button and input preset number. The interface is shown as in *Figure 5-40*.

Now you can add this preset to one tour.

### Figure 5-40 Preset Setting



## **Activate Preset**

In *Figure 5-39*, please input preset number in the No. blank, and click **preset** button.

## Patrol setup (Tour Setup)

In *Figure 5-38*, click **Tour** button. The interface is shown as in *Figure 5-41*.Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.

## **Overview of Navigation and Controls**



## **Activate Patrol (tour)**

In Figure 5-39, input patrol (tour) number in the No. blank and click patrol button

## **Pattern Setup**

In *Figure 5-38*, click **pattern** button. The interface is shown as in *Figure 5-42*. Click **"begin**" button. Then you can go to *Figure 5-36* to modify zoom, focus, and iris.

Go back to *Figure 5-42* and click "**end**" button. You can memorize all these operations as pattern 1.

### Figure 5-42 Pattern Setting

PAN/TILT/ZO	DOM	
Function	Pattern	1
Preset	Patrol No.	
Tour		
Pattern	l Begin	
Border	End	

## **Activate Pattern Function**

In Figure 5-39, input mode value in the No. blank, and click pattern button.

### **Auto Scan Setup**

In *Figure 5-38*click **border** button. The interface is shown as in *Figure 5-43*. Please go to *Figure 5-36*, use direction arrows to select camera left limit Then please go to *Figure 5-43* and click left **limit** button Repeat the above procedures to set right limit.

### Figure 5-43 Auto Scan Setting



### **Activate Auto Scan**

In *Figure 5-39*, click "**Auto Scan**" button, the system begins auto scan. Correspondingly, the auto scan button becomes Stop button. Click **stop** button to terminate scan operation.

## Flip

In *Figure 5-39*, click page switch button, you can see an interface is shown as below. See *Figure 5-44*. Here you can set auxiliary function. The aux value has relationship with the Aux button of the decoder.

Click page switch button again, system goes back to Figure 5-36.

### Figure 5-44 Auxiliary Setting

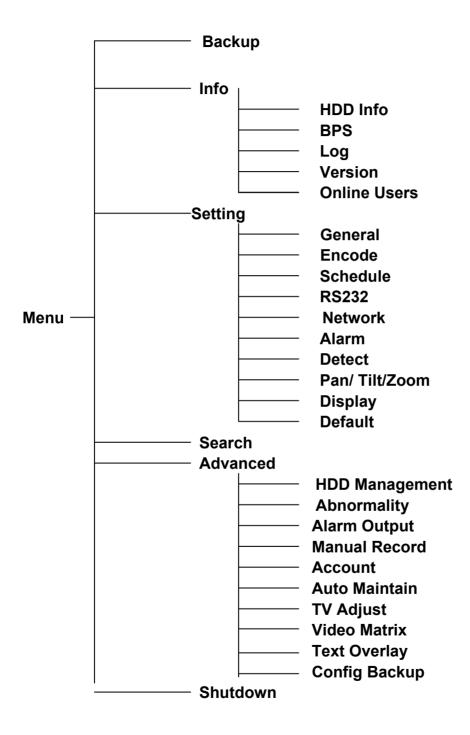


# 6 Understanding of Menu Operations and Controls

**Menu Tree** 

This series VIDEO ENCODER menu tree is shown as below.

## **Understanding of Menu Operations and Controls**



## Main Menu

After you logged in, the system main menu is shown as below. See *Figure 6-1* There are total six icons: search, Info, setting, backup, advanced and shutdown. Move the cursor to highlight the icon, then double click mouse to enter the submenu.

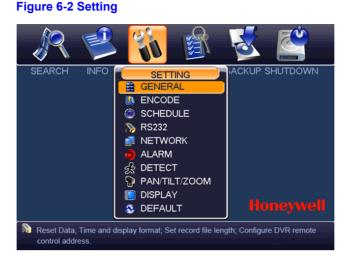
#### Figure 6-1 Main Menu



## **Setting**

In main menu, highlight setting icon and single click mouse. System setting interface is shown as below. See *Figure 6-2*.

## **Understanding of Menu Operations and Controls**



## General

General setting includes the following items. See Figure 6-3.

- System time: Here is for you to set system time
- Date format: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate date: dot, beeline and solidus.
- DST: Here you can set DST time and date. Please enable DST function and then click set button. You can see an interface is shown as in *Figure 6-4*. Here you can set start time and end time by setting corresponding week setup. In *Figure 6-4*, enable date button, you can see an interface is shown as in *Figure 6-5*. Here you can set start time and end time by setting corresponding date setup.
- Time format: There are two types: 24-hour mode or 12-hour mode.
- Language: System supports various languages: Chinese (simplified), and English.
- HDD full: Here is for you to select working mode when hard disk is full. There
  are two options: stop recording or overwrite. If current working HDD is
  overwritten or the current HDD is full while the next HDD is no empty, then
  system stops recording, If the current HDD is full and then next HDD is not
  empty, then system overwrites the previous files.
- Pack duration: Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

- Device No: When you are using one remote control (not included in the accessory bag) to control several VIDEO ENCODERs, you can give a name to each VIDEO ENCODER for your management.
- Video standard: There are two formats: NTSC and PAL.
- GUI Standby: Here is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.
- Startup wizard: Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.
- Device ID: Please input a corresponding device name here.



Since system time is very important, do not modify time casually unless there is a must!

Before your time modification, please stop record operation first!

After completing all the setups please click **save** button, system goes back to the previous menu.

### **Figure 6-3 General Setting**



#### Figure 6-4 DST Setup Menu (Week)

DST							
• D	ay of W	eek	O Dat	e			
Start:	Jan	17	Last		Sun I-	00 : 00	
End:	Jan	I	Last		Sun I-	00 : 00	
				ОК	Can	cel	

### Figure 6-5 DST setup menu (Date)

DST	
O Day of Week 🔍 Date	
Start: 💽 2000 - 01 - 01   00 : 00	
End: 💽 2009 - 01 - 01   00 : 00	
OK Cancel	

## Encode

Encode setting includes the following items. See Figure 6-6.

Please note some series do not support extra stream.

- Channel: Select the channel you want.
- Type: Please select from the dropdown list. There are three options: regular/motion detect/alarm. You can set the various encode parameters for different record types.
- Compression: System supports H.264.
- Resolution: System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports D1/HD1/2CIF/CIF/QCIF. Please note the option may vary due to different series.
- Frame rate: It ranges from 1f/s to 25f/s in PAL mode and 1f/s to 30f/s in NTSC mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- Video/audio: You can enable or disable the video/audio.
- Overlay: Click overlay button, you can see an interface is shown in *Figure* 6-7.
- Cover area (Privacy mask): Here is for you to set privacy mask section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
- Preview/monitor: privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone cannot be viewed by user when system is in preview status. Monitor means the privacy mask zone cannot be view by the user when system is in monitor status.
- Time display: You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.

• Channel display: You can select system displays channel number or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.

Please highlight icon 🔲 to select the corresponding function.

### Figure 6-6 Encode Menu

Honeywell	R	Ľ	<b>*</b>		<u>R</u>	8	<b></b>
Channel	1	I,					
Туре	Regular	I.					
Compression	H.264	I.	Extra Stre	eam11 <del>.</del>			
Resolution	D1	I,	D1	١v			
Frame Rate(FPS)	25	IT I	25	-			
Bit Rate Type	CBR	I.	CBR	١v			
Bit Rate(Kb/S)	2048 🛛 🔫		4096	-			
Reference Bit Rate	768-4096Kb/S	5	768-4096	Kb/S			
Enable Audio/Video							
	Overlay						
	SNAPSHOT	9					
Copy Paste Default Save Cancel							

### Figure 6-7 Encode Menu

OVERLAY	
Cover-Area	Preview Monitor Set
Time Display	Set 🛛 🖉 Monitor
Channel Display	Set 🛛 🗹 🗹
ſ	Save Cancel

## Schedule

Please refer to Schedule.

## **RS232**

RS232 interface is shown as below. There are five items. See Figure 6-8.

## **Understanding of Menu Operations and Controls**

- Function: There are various devices for you to select. Console is for you to use the COM or mini-end software to upgrade or debug the program. Transparent COM (adapter) is to connect to the PC to transfer data directly. HD-JC-010is for you to use the special keyboard to control the device (Reserved).
- Baud rate: You can select proper baud rate.
- Data bit: You can select proper data bit. The value ranges from 5 to 8.
- Stop bit: There are two values: 1/2.
- Parity: there are five choices: none/odd/even/space/ mark.
- System default setup is:
- Function: Console
- Baud rate:115200
- Data bit:8
- Stop bit:1
- Parity: None

After completing all the setups please click **save** button, system goes back to the previous menu.

#### Figure 6-8 RS232 Setup Menu



### **Network**

Here is for you to input network information. See Figure 6-9.

- IP address: Here you can input IP address.
- DHCP: It is to auto search IP. When enable DHCP function, you cannot modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have

not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you cannot modify IP/Subnet mask /Gateway.

- TCP port: Default value is 37777.
- HTTP port: Default value is 80.
- RTSP port: Default value is 554.
- Max connection: system support maximal 20 users. 0 means there is no connection limit.
- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.
- After completing all the setups please click save button, system goes back to the previous menu.

#### Figure 6-9 Network Setup Menu



## **Advanced Setup**

Advanced setup interface is shown as in *Figure 6-10*. Please draw a circle to enable corresponding function and then double click current item to go to setup interface.

#### Figure 6-10 Advanced Settings

ADVANCED SET	TING	 
IP FILTER	Trusted Sites:0	[
NTP	NTPServer : 60	
MULTICAST	239.255.42.42	

## **IP Filter**

IP filter interface is shown as in *Figure 6-11*. You can add IP in the following list. The list supports max 64 IP addresses.

Please note after you enabled this function, only the IP listed below has access to the current VIDEO ENCODER.

If you disable this function, all IP addresses have access to the current VIDEO ENCODER.

#### Figure 6-11 IP Filter Menu

Honeywell	R	1	<i>ii</i>	Ê	3	Ĕ
Restricted Type Tr						
0.0.0	. 0	Add IP				
			3			
Delete IP Dele	ete All					
		ОК	Cance	el		

## **NTP Setup**

You need to install SNTP server (Such as Absolute Time Server) in your PC first. In Windows XP OS, you can use command "net start w32time" to boot up NTP service.

NTP setup interface is shown as in *Figure 6-12*.

- Host IP: Input your PC address.
- Port: This series VIDEO ENCODER supports TCP transmission only. Port default value is 123.
- Update interval: minimum value is 1. Max value is 65535. (Unit: minute)
- Time zone: select your corresponding time zone here.

Here is a sheet for your time zone setup.

# Honeywell

City /Region Name	Time Zone
London	GMT+0
Berlin	GMT+1
Cairo	GMT+2
Moscow	GMT+3
New Deli	GMT+5
Bangkok	GMT+7
Beijing (Hong Kong)	GMT+8
Токуо	GMT+9
Sydney	GMT+10
Hawaii	GMT-10
Alaska	GMT-9
Pacific Time(P.T)	GMT-8
American Mountain Time(M.T)	GMT-7
American Central Time(C.T)	GMT-6
American Eastern Time(E.T)	GMT-5
Atlantic Time	GMT-4
Brazil	GMT-3
Middle Atlantic Time	GMT-2

## **Understanding of Menu Operations and Controls**

# Figure 6-12 NTP Setup Menu NTP Server IP NTPServer Port 123 Time Zone GMT+08:00 Update Period 10 OK Cancel

## **Multiple Cast Setup**

Multiple-cast setup interface is shown as in Figure 6-13.

## Figure 6-13 Multiple Cast Setup Menu

MULTICAS		
IP Address Port	239 · 255 · 42 · 42 36666	k
C	OK Cancel	

Here you can set a multiple cast group. Please refer to the following sheet for detailed information.

IP multiple cast group address

224.0.0.0-239.255.255.255

"D" address space

- The higher four-bit of the first byte="1110"
- Reserved local multiple cast group address

224.0.0.0-224.0.0.255

TTL=1 When sending out telegraph

For example

224.0.0.1 All systems in the sub-net

224.0.0.2 All routers in the sub-net

224.0.0.4 DVMRP router

224.0.0.5 OSPF router

224.0.0.13 PIMv2 router

Administrative scoped addressees

239.0.0.0-239.255.255.255

Private address space

- Like the single broadcast address of RFC1918
- Cannot be used in Internet transmission
- Used for multiple cast broadcast in limited space

Except the above mentioned addresses of special meaning, you can use other addresses. For example:

Multiple cast IP: 235.8.8.36

Multiple cast PORT: 3666

After you logged in the Web, the Web can automatically get multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view.

Please note multiple cast function applies to special series only.

## PPPoE

PPPoE interface is shown as in Figure 6-14.

Input "PPPoE name" and "PPPoE password" you get from your ISP (Internet service provider).

Click **save** button, you need to restart to activate your configuration.

After rebooted, VIDEO ENCODER will connect to internet automatically. The IP in the PPPoE is the VIDEO ENCODER dynamic value. You can access this IP to visit the unit.

#### Figure 6-14 PPPOE Setup Menu

PPPOE										
User Name	use	rna	me						k	
Password			•			abc				
IP Address	0		0		0		0			
	0		0		0		0			
		ОК		ר ר	<u> </u>	anc	el	٦		
				J U		anc				

## **DDNS Setup**

DDNS setup interface is shown as in Figure 6-15.

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

In network DDNS, please select DDNS type and highlight enable item. Then please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then reboot system.

Click save button, system prompts for rebooting to get all setup activated.

After rebooting, open IE and input as below:

http: // (DDNS server IP)/ (virtual directory name)/webtest.htm

e.g.: http: //10.6.2.85/VIDEO ENCODER \_DDNS/webtest.htm.)

Now you can open DDNSServer web search page.

#### Figure 6-15 DDNS Setup Menu

DDNS		
DDNS Type	Private DDNS I-	🛑 Enable
Server IP		
Port	80	l i i i i i i i i i i i i i i i i i i i
Domain Name		l
User Name		l i i i i i i i i i i i i i i i i i i i
Password		
Update Period	300	sec.
	_	
Default		OK Cancel

Please note NNDS type includes: CN99 DDNS、NO-IP DDNS、Private DDNS、Dyndns DDNS. All the DDNS can be valid at the same time, you can select as you requirement.

Private DDNS function shall work with special DDNS server and special Professional Surveillance Software (HD-CS).

## UPNP

The UPNP protocol is to establish a mapping relationship between the LAN and the WAN... Double click the UPNP item in *Figure 6-9*; you can see the following interface. See *Figure 6-16*. Please input the router IP address in the LAN in *Figure 6-16* 

- UPNP on/off : Turn on or off the UPNP function of the device.
- Status: When the UPNP is offline, it shows as "Unknown". When the UPNP works it shows "Success"
- Router LAN IP: It is the router IP in the LAN.
- WAN IP: It is the router IP in the WAN.
- Enable Switch <sup>I</sup>: It shows that the function of port mapping is enabled in this port.
- PAT Table:
  - Service name: Defined by user.
  - Protocol: Protocol type
  - Int. port: Port that has been mapped in the router.
  - Ext. port: Port that has been mapped locally.
- Default: UPNP default port setting is the HTTP, TCP and UDP of the VIDEO ENCODER.
- Add to the list: Click it to add the mapping relationship.
- Delete: Click it to remove one mapping item.

Double click one item; you can change the corresponding mapping information. See *Figure 6-17*.

#### Important:

When you are setting the router external port, please use 1024~5000 port. Do not use well-known port 1~255 and the system port 256~1023 to avoid conflict.

For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission.

Figure 6-16 UPNP Menu

#### 21 8 Ľ R =Î 當 • PAT UPNP Status Router LAN IP WAN IP PAT Table Service Name Int.Port Ext.Port Protocol TCP ✓ HTTP 80 80 V TCP TCP 37777 37777 3 V UDP UDP 37778 37778 R Add to the List Delete Default ОК Cancel

## Figure 6-17 Port Info Menu

PORT INFO			
Service Name	HTTP		
Protocol	TCP	I <b>-</b>	
Int.Port	80		
Ext.Port	80		
			<b>N</b>
ſ	OK	Cancel	

## Email

The email interface is shown as below. See Figure 6-18.

- SMTP server: Please input your email SMTP server IP here.
- Port: Please input corresponding port value here.
- User name: Please input the user name to login the sender email box.
- Password: Please input the corresponding password here.
- Sender: Please input sender email box here.
- Title: Please input email subject here. System support English character and Arabic number. Max 32-digit.
- Receiver: Please input receiver email address here. System max supports 3 email boxes.
- SSL enable: System supports SSL encryption box.

- Event Interval: The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
- Health enable: Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
- Interval: Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not. See *Figure 6-19*.

Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

Honeywell	R	2	-	Ŕ	5	<u>e</u>
SMTP Server	MailSever	Port	25			
Anonymous						
User Name		Passwo	rd			
Receiver						
Sender						
Title	DVR ALERT			R.		
Attachment	✓					
SSL Enable						
Event Interval	120	sec.				
Health Enable	✓					
Interval	60	min.				
		ок Г	Cancel	Test	]	

## Figure 6-18 Email Setup Menu

#### Figure 6-19 Mail Test Info

## FTP

You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

## **Understanding of Menu Operations and Controls**

Please install Ser-U FTP SERVER first. From "start"  $\rightarrow$  "program"  $\rightarrow$  Serv-U FTP Server  $\rightarrow$  Serv-U Administator. Now you can set user password and FTP folder. Please note you need to grant write right to FTP upload user. See *Figure 6-20*.

Image: Servel Servers         Image: Servel Servers         Image: Servel Servers         Image: Servel Servers         Image: Servers
Add     Delete     Edit       Add     Delete     Edit         Image: State of the

Figure 6-20 FTP Server Setup Menu

You can use a PC or FTP login tool to test setup is right or not.

For example, you can login user ZHY to H140H140H140HTUFTP://10.10.7.7UTH and then test it can modify or delete folder or not. See *Figure 6-21*.

#### Figure 6-21 FTP Login Window

Interne	t Explorer		X
<b>?</b>	To log on to t	his FTP server, type a user name and password.	
•	FTP server:	10.10.7.7	
	<u>U</u> ser name:		
	Password:		
	After you log	on, you can add this server to your Favorites and return to it easily	ч.
	Log on and	onymously	
		Log On Cancel	

System also supports upload multiple VIDEO ENCODERs to one FTP server. You can create multiple folders under this FTP.

In *Figure 6-9*, select FTP and then double click mouse. You can see the following interface. See *Figure 6-22*.

Please highlight the icon III in front of Enable to activate FTP function.

Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.

User name and password is the account information for you to login the FTP.

File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.

After completed channel and weekday setup, you can set two periods for one each channel.

Click the **Test** button, you can see the corresponding dialogue box to see the FTP connection is OK or not. See *Figure 6-23*.

FTP	<b>A</b>
Туре	Record FTP I
Server IP	0 · 0 · 0 · 0 Port 21
User Name	
Password	Anonymous
Remote Directory	File Length 0
Channel	1
Weekday	Mon IT Alarm Motion General
Time Period 1	00 :00 -24 :00
Time Period 2	00 :00 -24 :00
	OK Cancel

#### Figure 6-22 FTP Setup Menu

#### Figure 6-23 FTP Test Info

## **Alarm Centre**

This interface is reserved for you to develop.

## Alarm

Please refer to Alarm.

## **Detect**

Please refer to Detect.

## Pan/Tilt/Zoom

The pan/tilt/zoom setup includes the following items. Please select channel first. See *Figure 6-24*.

- Protocol: Select corresponding PTZ protocol such as PELCOD.
- Address: input corresponding PTZ address.
- Baud rate: Select baud rate.
- Data bit: Select data bit.
- Stop bit: Select stop bit.
- Parity: There are three choices: none/odd/even/Mark/Space.

After completed all the setups please click **save** button, system goes back to the previous menu.

For detailed setup, please refer to Preset /Patrol / Pattern /Border Function.

#### Figure 6-24 PTZ Setup Menu

		<u>í</u> R	主 🔯		🛃 🔊
PAN/TI	_T/ZOOM	<u> </u>			
Channel	1	)			
Protocol	PELCOD I-				
Address	1	Ì			
Baudrate	9600 I <del>~</del>	)			
Data Bits	8 1-	)			
Stop Bits	1 1-	)			
Parity	None I-	)			
Сору	Paste	Default		Save	Cancel

## **Display**

Display setup interface is shown as below. See Figure 6-25.

- Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.
- Channel name: Here is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Please note all your modification here only applies to VIDEO ENCODER local end. You need to open web or client end to refresh channel name.
- Time display: You can select to display time or not when system is playback.
- Channel display: You can select to channel name or not when system is playback.
- Resolution: There are four options: 1280×1024(default), 1280×720, 1024×768,800×600. Please note the system needs to reboot to activate current setup.
- Enable tour: Activate tour function.
- Interval: System supports 1/4/8-window tour. Input proper interval value here. The value ranges from 5-120 seconds. In tour process, you can use mouse or click Shift to turn on window switch function. Stands for opening switch function, Stands for closing switch function.
- Monitor tour type: System support 1/8-window tour.
- Alarm tour type: System support 1/8-window tour.

Please highlight icon us to select the corresponding function.

After completing all the setups please click **save** button, system goes back to the previous menu.

#### Figure 6-25 the Display Setup Menu

Honeywell DISPLAY	R 🔋	2		S 🗳	
GUI					Ŋ
Transparency	200	Channel Name	Modify		
Time Display		Channel Display	<ul><li>✓</li></ul>		
Resolution	1280×1024 I-	Image Enhance			
Enable Tour		Interval	5	sec.	
View 1	~~~~~	78			
View 4	S 2				
View 8	<b>4666666666</b>	78			
Motion Tour Type	View 1 I-	Alarm Tour Type	View 1	•	
		<b>₽</b>			I
Default			Sav	e Cancel	

In *Figure 6-25*, click **modify** button after channel. You can see an interface is shown as in *Figure 6-26*. Please note all your modification here applies to local end only. You need to refresh web or client-end to get the latest channel name. System max support 25-digital character.

#### Figure 6-26 Channel Name Setup Menu

Channel	Name		
CAM 1	CAM 1	CAM 2	CAM 2
CAM 3	CAM 3	CAM 4	CAM 4
CAM 5	CAM 5	CAM 6	CAM 6
CAM 7	CAM 7	CAM 8	CAM 8
Default		Save	Cancel

In tour mode, you can see the following interface. On the right corner, right click mouse or click **shift** button, you can control the tour. There are two icons:  $\bigcirc$  stands for enabling window switch and  $\bigcirc$  stands for disabling window function. See *Figure 6-27*.

#### Figure 6-27 the Sample of Tour Mode

6368/1 50	1340M X 900	e10.6 3 200

## Default

Click **default** icon, system pops up a dialogue box. You can highlight to restore default factory setup. See Figure 6-28.

- Select all
- General
- Encode
- Schedule
- RS232
- Network
- Alarm
- Detect
- Pan/tilt/zoom
- Display
- Channel name

Please highlight icon us to select the corresponding function.

After all the setups please click **save** button, system goes back to the previous menu.

## Warning!

System menu color, language, time display mode, video format, IP address, user account will not maintain previous setup after default operation!

#### Figure 6-28 Default Setup Menu



# Search

Please refer to Search.

# **Advanced**

Click the advanced icon in the main window, the interface is shown as below. See *Figure 6-29*. There are total eight function keys: HDD management, alarm output, abnormality, manual record, account, auto maintenance, TV adjust and video matrix, Text overlay, Config backup.

#### Figure 6-29 Advanced Menu



## **HDD Management**

Here is for you to view and implement hard disk management. See Figure 6-30.

You can see current HDD type, status, capacity and record time. When HDD is working properly, system is shown as O. When HDD error occurred, system is shown as X.

Alarm set: Click alarm set button, the interface is shown as below. See Figure 6-31. (This interface is just like the abnormity setup). Please refer to Alarm for detailed information.

 HDD operation: You can select HDD mode from the dropdown list such as read-only or you can erase all data in the HDD. Please note system needs to reboot to get all the modification activated.



Figure 6-30 HDD Management Setup Menu

Please highlight icon us to select the corresponding function.

#### Figure 6-31 Abnormity Setup Menu

ABNORMALITY	<u> </u>	۴ 😫	ið (		5	<b>É</b>
Event Type	Disk Error I-				4	
Enable						
✓Alarm Out	\$26	Delay	10		sec.	
Show Message	🗹 Alarm Upload	Send Ema	il			
✓Buzzer						
				Save		Cancel

For the HDD group setup operation, please note:

- Each channel's records can be stored into the specified HDD Group.
- Each HDD Group is corresponding to several hard disks, while one hard disk is only included in one HDD Group.

## **Understanding of Menu Operations and Controls**

- Each channel is only corresponding with one HDD Group, while one HDD Group can store records from several channels.
- HDD Group is only available for read-write HDD and self-defined disks, other types of hard disks cannot be set as HDD Group.

## Important:

- E-SATA also supports this function; you can manage e-SATA hard disk as local hard disk.
- Current series software version can only set the HDD group operation of the read-write HDDs. It is not for the redundancy HDD.

## **HDD Setting**

Click the button "HDD Settings" at the top right corner of the *Figure 6-30*, system will pop up an interface as below. See *Figure 6-32*.

The number of hard disk from 1 to 6 is shown in the "HDD No." column. If there is a

mark in the front of the number, it means this interface have access to the hard disk, otherwise it does not have access to the hard disk.

The "HDD Group" column lists the HDD Group number of current hard disk.

When you are setting the HDD Group, please check the box of the hard disk, and then choose the corresponding HDD Group number and save the settings.

In *Figure 6-32*, you can see the system has two working hard disks at the 6th and 7th position, and the 6th position hard disk belongs to HDD Group 1.

## Figure 6-32 Different HDD Group Setting Menu

HDD Sett	ing
HDD No. 1 2 3 4 5 6	HDD Group       1       2       •       •       •       •       •       •       •       •       •       •       •
	OK Cancel

In *Figure* 6-33, you can see the 1<sup>st</sup> position HDD belongs to Group1 and 2nd position HDD belongs to HDD Group 2.

## Important

Once you change the HDD Group settings, system will pack the records and snapshots, and then reboot.

#### Figure 6-33 Same HDD Group Setting Menu

HDD Setti	ing	
HDD No.	HDD Group	7
1	1 IV	
	- 17	
3	- IV	
4	· IV	
5	- 17	
6	- IV	
	OK Cancel	

## **HDD Channel**

Click the button named with "**HDD Channel**" at the top right corner of the *Figure* 6-30, system will pop up an interface shown as in *Figure* 6-34.

When you are setting the configurations of the channels setting, please select relevant channels first (such as channel 1 to 8), and then select the HDD Group NO. Please click the Save button to save current setup.

The *Figure 6-35* show that channels 1 to 4 are associated to HDD Group NO 1, and channels 5 to 8 are associated to HDD Group NO 2. Therefore the records of channels 1 to 4 are stored into the hard disk(s) which belong to HDD Group NO 1, and the records of channels 5 to 8 are stored into the hard disk(s) which belong to HDD Group NO 2.

## Important

Once you change the HDD Group settings, system will pack the records and snapshots, and then reboot.



#### Figure 6-34 HDD Group 1 Channel Setting

#### Figure 6-35 HDD Group 2 Channel Setting



## **Abnormity**

Abnormity interface is shown as in Figure 6-36.

- Event type: There are several options for you such as disk error, no disk, net disconnection, IP conflict and Mac Conflicted.
- Alarm out: Please select alarm activation output port (multiple choices).
- Delay: Here you can set corresponding delaying time. The value ranges from 1s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Show message: system can pop up the message in the local screen to alert you when alarm occurs.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer will beep when alarm occurs.



#### Figure 6-36 Sample of No Disk Abnormity

## **Alarm Output**

Here is for you to set proper alarm output.

Please highlight icon III to select the corresponding alarm output.

After all the setups please click **OK** button, system goes back to the previous menu. See *Figure 6-37*.

## Figure 6-37 Alarm Output Setup Menu

ALARM OUT	PUT		
Alarm Type Schedule	All	1 2 3 • • •	
Manual	0	000	
Stop Status	0		
	К	Cancel	

## **Manual Record**

Please refer to Manual Record.

## Account

Here is for you to implement account management. See *Figure 6-38*. Here you can:

- Add user
- Modify user
- Add group
- Modify group
- Modify password.
- For account management please note:
- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.
- The user name and group name can consist of eight bytes. One name can only be used once. There are four default users: admin/888888/666666 and hidden user "default". Except user 6666, other users have administrator right.
- Hidden user "default" is for system interior use only and cannot be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.
- One user should belong to one group. User right cannot exceed group right.
- About reusable function: this function allows multiple users use the same account to login.

After all the setups please click **save** button, system goes back to the previous menu.

સા 0 ACCOUNT User Group Status 888888 admin Login Local 666666 2 user Normal 3 admin admin Normal 4 default Default User user Add User Modify User Add Group Modify Group Modify Password

#### Figure 6-38 Account Management Menu

## **Modify Password**

Click **password** button, the interface is shown as in *Figure* 6-39.

Here you can modify account password.

Please select the account from the dropdown list, input the old password and then input the new password twice. Click the **Save** button to confirm current modification.

For the users of user account right, it can modify password of other users.

#### Figure 6-39 Modify Password



## Add/Modify Group

Click **add group** button, the interface is shown as below. See *Figure 6-40*.

Here you can input group name and then input some memo information if necessary.

## **Understanding of Menu Operations and Controls**

There are total 60 rights such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device and etc.

The modify group interface is similar to the Figure 6-40.

#### Figure 6-40 Add Group

	naywell 🖉 🤌 😢 👔 🔯 🗳
Name	
Mem	
58	Authority
1	Control Panel
2	Shutdown the device
3	Monitor_CH01
4	Monitor_CH02
5	Monitor_CH03
6	Monitor_CH04
7	Monitor_CH05
8	Monitor_CH06
9	Monitor_CH07
<b>O</b> P	age Up 🗿 Page Down 🕞 Enable/Disable Authority
	Save Cancel

## Add/Modify User

Click add user button, the interface is shown as in Figure 6-41.

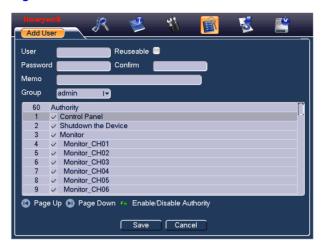
Please input the user name, password, select the group it belongs to from the dropdown list.

Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

The modify user interface is similar to Figure 6-41.

#### Figure 6-41 Add User



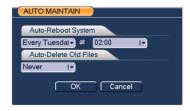
## **Auto Maintain**

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See *Figure 6-42*.

You can select proper setup from dropdown list.

After all the setups please click **save** button, system goes back to the previous menu.

#### Figure 6-42 Auto Maintain Setup Menu



## **TV Adjust**

Here is for you to adjust TV output setup. See *Figure 6-43*.

Please drag slide bar to adjust each item.

After all the setups please click **OK** button, system goes back to the previous menu.

#### Figure 6-43 TV Adjust Menu

TV ADJUST	
Top Deflate	• 0
Bottom Deflate	• 0
Left Deflate	• 0
Right Deflate	• 0
Brightness	<b></b> 128
Default	OK Cancel

## **Video Matrix**

Here you can set matrix output channel and its interval. See Figure 6-44.

It can support the 1/4-window sport tour and you can specify the interval on HUSS-E8X.

#### Figure 6-44 Video Matrix Menu



## **Text Overlay**

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

## COM Type

The COM interface is shown as below. See Figure 6-46.

- Protocol: Please select from the dropdown list.
- Setting: Click COM setting button, the interface is shown as in RS232 interface. Please refer to RS232.

- Overlay channel: Please select the channel you want to overlay the card number.
- Overlay mode: There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- Overlay Position: Here you can select the proper overlay position from the dropdown list.

#### Figure 6-45 Text Overlay (COM Type)

Honeywell Text Overlay		R 😫	-	1	5	<b>E</b>
Sniffer Mode	СОМ	IT.				
Protocol	NONE	I.		4		
Setting	Com Se	tting				
Overlay Channel	828	****				
Overlay Mode	Previe	w 🗹 Encode				
Overlay Position	LeftTop	I.				
		Save	Cancel	כ		

## **Network Type**

The network type interface is shown as below. See Figure 6-46.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

## With the protocol

For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).



## Figure 6-46 Text Overlay (Network Type)

## Without the protocol

For the ATM/POS without the protocol, the interface is shown as in Figure 6-47.

Source IP refers to host IP address that sends out information (usually it is the device host.)

Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four groups IP. The record channel applies to one group (optional) only.

Six frame ID groups verification can guarantee information validity and legal.

#### Figure 6-47 ATM/POS

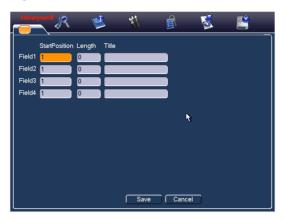


Click Data button you can see an interface is shown as in Figure 6-48.

Here you can set offset value, length, title according to your communication protocol and data package.  $\ensuremath{.}$ 

# Honeywell

#### Figure 6-48 Data Format



## **Config Backup**

The configuration file backup interface is shown as below. See *Figure 6-49*.

This function allows you to copy current system configuration to other devices.

#### Figure 6-49 Config File Backup



# Info

Here is for you to view system information. There are total five items: HDD (hard disk information), BPS (data stream statistics), Log and version, and online user. See *Figure 6-50*.



## Figure 6-50 Info Menu

## **HDD Info**

Here is to list hard disk type, total space, free space, video start time and status. See *Figure 6-51*. $\circ$  means current HDD is normal. X means there is error. - Means there is no HDD.

If disk is damaged, system shows as "?". Please remove the broken hard disk before you add a new one.

Once there is a hard disk confliction, please check hard disk time and system time is the same or not. Please go to setting then general to modify system time. At last, reboot the system to solve this problem.

After system booted up, if there is any confliction, system goes to HDD information interface directly. Please note, system does not ask you to deal with it forcedly.

When HDD confliction occurs, you can check system time and HDD time are identical or not. If they are not identical, please go to *General* to adjust system time or go to Management to format HDD and then reboot the VIDEO ENCODER.

#### Figure 6-51 HDD Info Menu

Home yo	100 C	R 😫	1	🖻 😼	. 🗳			
- 0								
				₹				
1*	Туре	Total Space	Free Space	Status	S.M.A.R.T.			
All		232.87 GB	229.45 GB		•			
1*	Read/Write	232.87 GB	229.45 GB	Normal	Normal			
					_			
CPage Up OPage Down								

#### Tips:

Please click **FN** button (only for HUSS-E2X and HUSS-E4X) or left click mouse to view HDD record time and HDD type and time.

## **BPS**

Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h). See *Figure* 6-52.

## Figure 6-52 BPS Display Menu

Honeyw BPS		K 🚺	2 🐝	I A	5	<u>e</u>
Channel 1 2 3 4 5 6 7 7 8	Kb/S 53 53 53 53 53 53 53 53 53	MB/H 23 23 23 23 23 23 23 24 24 24	Wave			

Log

Here is for you to view system log file. System lists the following information. See *Figure 6-53*.

## **Understanding of Menu Operations and Controls**

Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

Pleased select start time and end time, then click **search** button. You can view the log files.

System max displays 100 logs in one page. It can max save 1024 log files.

Please page up/down button to view if there are more than ten files.

System also supports the backup function; you can click the **backup** button to save the log files in the USB devices.

#### Figure 6-53 Log Search Menu

Туре	All IV
Start Tirr	ne 2011 - 09 - 16  00 : 00 : 00
End Tim	ne 2011 - 09 - 17   00 : 00 : 00 Details Search
97	Log Time Event
88	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
89	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
90	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
91	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
92	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
93	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
94	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
95	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
96	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]
97	2011-09-16 14:00:10 SEARCH[2011-09-16 14:00:10]

Click the **Details** button or double click the log item, you can view the detailed information. See *Figure 6-54*.

#### Figure 6-54 Log Details



## Version

Here is for you to view some version information. See Figure 6-55.

- Channel
- Alarm in
- Alarm out
- System version:
- Build Date
- Web
- Serial No.

#### Figure 6-55 Version Menu



## **Online Users**

Here is for you manage online users. See Figure 6-56.

You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

## **Understanding of Menu Operations and Controls**



#### Figure 6-56 Online Users Menu

# **Shutdown**

Click shutdown button, system pops up a dialogue box for you to select. See *Figure* 6-57

- Log out menu user: log out menu. You need to input password when you login the next time.
- Restart system: reboot VIDEO ENCODER.
- Shutdown: system shuts down and turns off power.
- Restart system: system begins rebooting.
- Switch user: you can use another account to log in.

#### Figure 6-57 Shutdown Menu



# 7 About Auxiliary Menu

# Go to Pan/Tilt/Zoom Menu

In the one-window surveillance mode, right click mouse (click "**FN**" Button in the front panel or click AUX key in the remote control). The interface is shown as below: See *Figure 7-1*.

#### Figure 7-1 Context Menu



Click Pan/Tilt/Zoom, the interface is shown as in Figure 7-2.

Here you can set the following items:

- Zoom
- Focus
- Iris

Please click icon 🔄 and 🕑 to adjust zoom, focus and Iris.

## Figure 7-2 PTZ Control Menu



In *Figure 7-2*, please click direction arrows (See *Figure 7-3*) to adjust PTZ position. There are totally eight direction arrows. (Please note there are only four direction arrows in VIDEO ENCODER front panel.)

#### **Figure 7-3 Direction Arrows**



These buttons in the sheet for you reference only used in HUSS-E2X and HUSS-E4X.

Name	Function key	function	Shortcut key	Function key	function	Shortcut Key
Zoom	0	Near	Þ	Đ	Far	**
Focus	0	Near	◀	<b>(7)</b>	Far	▶
Iris	0	Close	◀	<b>(7)</b>	Open	▶

# Preset /Patrol / Pattern /Border Function

Click the set button. The interface is shown as below:

Here you can set the following items:

- Preset
- Tour
- Pattern
- Border

### Figure 7-4 PTZ Setup Menu

<b>–</b> .:		_
Function	Preset	1
Preset	Patrol No.	
Tour		
Pattern	[ Set	
Border	Del Pres	set

In *Figure* 7-2, click page switch button, you can see an interface as in *Figure* 7-6 Here you can activate the following functions:

- Preset
- Tour(Patrol)
- Pattern
- Auto scan
- Auto pan
- Flip
- Reset
- Page Switch

### Figure 7-5 PTZ Function Manu



## **Preset Setup**



The following setups are usually operated in the *Figure 7-2*, *Figure 7-5* and *Figure 7-6*.

In Figure 7-2, use eight direction arrows to adjust camera to the proper position.

In *Figure* 7-5, click **preset** button and input preset number. The interface is shown as in *Figure* 7-7.Add this preset to one tour number

#### Figure 7-6 Preset Setting



## **Activate Preset**

In Figure 7-6 please input preset number in the No. blank, and click preset button.

## **Tour Setup**

In *Figure 7-5*, click tour button. The interface is shown as in *Figure 7-8*. Input preset number and then add this preset to one tour.

### **Figure 7-7 Tour Setting**



## **Activate Tour**

In Figure 7-6, input tour. number in the No. blank and click tour. button

## **Pattern Setup**

In *Figure 7-5*, click pattern button and then click begin button. The interface shows like *Figure 7-9*.

Please go to *Figure 7-2* to modify zoom, focus, and iris. Go back to *Figure 7-9* and click end button.

You can memorize all these setups as pattern 1.

### Figure 7-8 Pattern Setting

PAN/TILT/ZOOM		
Function	Pattern 1	
Preset	Patrol No.	
Tour		
Pattern	Begin	
Border	<sup>V</sup> End	

## **Activate Pattern**

In Figure 7-6, input mode value in the No. blank, and click pattern button.

## **Border Setup**

In Figure 7-6, click border button. The interface is shown as in Figure 7-10.

Please go to *Figure 7-2*, use direction arrows to select camera left limit, and then please go to *Figure 7-10* and click left limit button

Repeat the above procedures to set right limit.

### Figure 7-9 Auto Scan Setting

PAN/TILT/ZOOM		
Function	Preset 1	
Preset		
Tour	Patrol No. 1	
Pattern	Left	
Border	Right	

## **Activate Border**

In *Figure 7-5*, click **auto scan** button, the system begins auto scan. Correspondingly, the auto scan button changes to stop button.

Click stop button to terminate scan operation.

## Flip

In *Figure 7-5*, click page switch button, you can see an interface is shown as below. See *Figure 7-10*. Here you can set auxiliary function.

Click page switch button again, system goes back to Figure 7-2.

## Honeywell

### Figure 7-10 Auxiliary Setting



# 8 Professional Surveillance System

Besides Web, you can use our Professional Surveillance Software (HD-CS) to login the device.

For detailed information, please refer to HD-CS user's manual.

# 9 FAQ

### 1. VIDEO ENCODER cannot boot up properly.

There are the following possibilities:

- Input power is incorrect.
- Power connection is incorrect.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something is wrong with HDD ribbon.
- Front panel error.
- Main board is damaged.

### 2. VIDEO ENCODER often automatically shuts down or stops running.

There are the following possibilities:

- Input voltage is not stable or it is too low.
- HDD malfunction or something wrong with the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

### 3. System cannot detect hard disk.

There are the following possibilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.

- Main board SATA port is broken.
- 4. There is no video output whether it is one-channel, multiple-channel or all-channel output.

There are the following possibilities:

- Program is incompatible. Please upgrade to the latest version.
- Brightness is 0. Please restore factory default setup.
- There is no video input signal or it is too weak.
- Check privacy mask setup or your screen saver.
- VIDEO ENCODER hardware malfunctions.

### 5. Real-time video color is distorted.

There are the following possibilities:

- When using BNC output, NTSC and PAL setup is not correct. The realtime video becomes black and white.
- VIDEO ENCODER and monitor resistance is not compatible.
- Video transmission distance is too long or video signal is too much degraded.
- VIDEO ENCODER color or brightness setup is incorrect.

#### 6. Cannot search local records.

There are the following possibilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

### 7. Video is distorted when searching local records.

There are the following possibilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is a mosaic displayed on the full screen. Please restart the VIDEO ENCODER to solve this problem.

- HDD data ribbon error.
- HDD malfunction.
- VIDEO ENCODER hardware malfunctions.

### 8. There is no audio when live monitoring.

There are the following possibilities:

- The audio source is not a power picker.
- The audio output is not connected to a power speaker.
- Audio cable is damaged.
- VIDEO ENCODER hardware malfunctions.
- 9. There is audio when monitoring, but there is no audio when system enters playback mode.

There are following possibilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

### 10. Time display is not correct.

There are the following possibilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

### 11. VIDEO ENCODER cannot control PTZ.

There are the following possibilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is incorrect.
- Cable connection is incorrect.
- PTZ setup is incorrect.
- PTZ decoder and VIDEO ENCODER protocol is incompatible.
- PTZ decoder and VIDEO ENCODER address is incompatible.

- When there are several decoders, please add 120 Ohm (impedance matching) between the PTZ decoder A/B cables' farthest end to delete the reverberation. Otherwise the PTZ control is not stable.
- The distance is too far.

### 12. Motion detection function does not work.

There are the following possibilities:

- Period setup is incorrect.
- Motion detection zone setup is incorrect.
- Sensitivity is too low.
- For some versions, there is a hardware limit.

### 13. Cannot log in client-end or web.

There are the following possibilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. You can also install client-end software of a previous version. Please note right now, our VIDEO ENCODER is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with VIDEO ENCODER program.

## 14. Only a mosaic is displayed, no video appears when preview or playback video are filed remotely.

There are following possibilities:

- Network fluency is not good.
- Client-end resources are limited.
- There is multiple-cast group setup in VIDEO ENCODER. This mode can
  result in a mosaic appearance. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- VIDEO ENCODER local video output quality is not good.

### 15. Network connection is not stable.

There are following possibilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or VIDEO ENCODER network card is not good.

### 16. Burn error /USB back error.

There are the following possibilities:

- Burner and VIDEO ENCODER are in the same data cable.
- System uses too many CPU resources. Please stop recording first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

### 17. Keyboard cannot control VIDEO ENCODER.

There are the following possibilities:

- VIDEO ENCODER serial port setup is incorrect.
- Address is incorrect.
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

### 18. Alarm signal cannot be disarmed.

There are the following possibilities:

- Alarm setup is incorrect.
- Alarm output has been opened manually.
- Input device error or connection is incorrect.
- Some program versions may have this problem. Please upgrade your system.

### 19. Alarm function is null.

There are following possibilities:

- Alarm setup is incorrect.
- Alarm cable connection is incorrect.
- Alarm input signal is incorrect.
- There are two loops connected to one alarm device.

#### 20. Remote control does not work.

There are the following possibilities:

- Remote control address is incorrect.
- Distance is too far or control angle is too small.
- Remote control battery power is low.
- Remote control is damaged or VIDEO ENCODER front panel is damaged.

### 21. Record storage period is insufficient.

There are the following possibilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is incorrect.
- HDD capacity is not enough.
- HDD is damaged.

#### 22. Cannot playback the downloaded file.

There are following possibilities:

- There is no media player.
- No DirectX 8.1 or higher graphic acceleration software is installed. Please install the latest DirectX software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

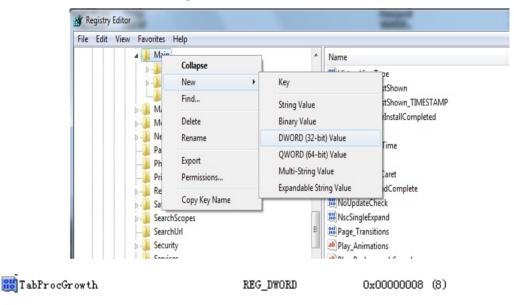
#### 23. Forgot local menu operation password or network password

- Please contact your local service engineer or our sales person for help. We can guide you to solve this problem.
- Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.

- Please visit our website for more information.
- 24. Cannot open more than 3 devices in one IE8 client.

Enlarger the value of "TabProcGrowth" in "HKEY\_CURRENT\_USER\Software\Microsoft\Internet Explorer\Main". If you cannot find this value in regedit, you can add one manually as follows.

- Open "run", input "regedit" to open the regedit;
- Right click "Main", new a DWORD value and rename it as "TabProcGrowth". Please skip this step if "TabProcGrowth" has been existed.
- Enlarger "TabProcGrowth" as follows. You can open 7 web clients in one PC if setting "TabProcGrowth" as 8.



### 25. Web client don't show in right mode while using IE8.

- Open "tools"→"compatibility view settings";
- Add the IP or domain of encoder in the compatibility list. As follows. And then close it.
- Reopen the web client of encoder, then it can show in right mode.

Add this website:	Add
Websites you've added to Compatibility View:	
Tinclude updated website lists from Microsoft	Bemove
Display intranct sites in Compatibility View	

Add IP address of website of the device into Compatibility View list

## **Appendix A HDD Capacity Calculation**

Calculate total capacity needed by each VIDEO ENCODER according to video recording (video recording type and video file storage time).

**Step 1:** According to Formula (1) to calculate storage capacity  $q_i$  that is the capacity of each channel needed for each hour, unit Mbyte.

$$q_i = d_i \div 8 \times 3600 \div 1024 \tag{1}$$

In the formula:  $d_i$  means the bit rate, unit Kbit/s

**Step 2:** After video time requirement is confirmed, according to Formula (2) to calculate the storage capacity  $m_i$ , which is storage of each channel needed unit Mbyte.

$$m_i = q_i \times h_i \times D_i \tag{2}$$

In the formula:

~

 $h_i$  means the recording time for each day (hour)

 $D_i$  means number of days for which the video shall be kept

**Step 3:** According to Formula (3) to calculate total capacity (accumulation)  $q_T$  that is needed for all channels in the VIDEO ENCODER during **scheduled video recording**.

$$q_T = \sum_{i=1}^{c} m_i \tag{3}$$

In the formula: c means total number of channels in one VIDEO ENCODER

**Step 4:** According to Formula (4) to calculate total capacity (accumulation)  $q_T$  that is needed for all channels in VIDEO ENCODER during **alarm video recording** (including motion detection).

$$q_T = \sum_{i=1}^{c} m_i \times a\% \tag{4}$$

In the formula: a% means alarm occurrence rate

# **Appendix B Compatible Backup Device List**

### **Compatible USB drive list**



Please upgrade the VIDEO ENCODER firmware to latest version to ensure the accuracy of the table below. If you use the USB drive, please confirm the format FAT or FAT32.

Manufacturer	Model	Capacity
Sandisk	Cruzer Micro	512M
Sandisk	Cruzer Micro	1G
Sandisk	Cruzer Micro	2G
Sandisk	Cruzer Freedom	256M
Sandisk	Cruzer Freedom	512M
Sandisk	Cruzer Freedom	1G
Sandisk	Cruzer Freedom	2G
Kingston	DataTraveler II	1G
Kingston	DataTraveler II	2G
Kingston	DataTraveler	1G
Kingston	DataTraveler	2G

## Appendix B Compatible Backup Device List

Maxell	USB Flash Stick	128M
Maxell	USB Flash Stick	256M
Maxell	USB Flash Stick	512M
Maxell	USB Flash Stick	1G
Maxell	USB Flash Stick	2G
Kingax	Super Stick	128M
Kingax	Super Stick	256M
Kingax	Super Stick	512M
Kingax	Super Stick	1G
Kingax	Super Stick	2G
Netac	U210	128M
Netac	U210	256M
Netac	U210	512M
Netac	U210	1G
Netac	U210	2G
Netac	U208	4G
Teclast	Ti Cool	128M
Teclast	Ti Cool	256M
Teclast	Ti Cool	512M
Teclast	Ti Cool	1G
SanDisk	cruzer mirco	2G
SanDisk	cruzer mirco	8G
SanDisk	Ti Cool	2G

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SanDisk	Hongjiao	4G
Lexar	Lexar	256MB
Kingston	Data Traveler	1G
Kingston	Data Traveler	16GB
Kingston	Data Traveler	32GB
Aigo	L8315	16GB
Sandisk	250	16GB
Kingston	Data Traveler Locker+	32GB
Netac	U228	8GB

### **Compatible SD Card List**

Please refer to the following sheet for compatible SD card brand.

Brand	Standard	Capacity	Card type
Transcend	SDHC6	16GB	SD
Kingston	SDHC4	4GB	SD
Kingston	SD	2GB	SD
Kingston	SD	1GB	SD
Sandisk	SDHC2	8GB	Micro-SD
Sandisk	SD	1GB	Micro-SD

### **Compatible Portable HDD List**

Please refer to the following sheet for compatible portable HDD brand.

Brand	Model	Capacity
YDStar	YDstar HDD box	40G

## Appendix B Compatible Backup Device List

Netac	Netac	80G
lomega	lomega RPHD-CG" RNAJ50U287	250GB
WD Elements	WCAVY1205901	1.5TB
Newsmy	Liangjian	320GB
WD Elements	WDBAAR5000ABK-00	500GB
WD Elements	WDBAAU0015HBK-00	1.5TB
Seagate	FreeAgent Go(ST905003F)	500GB
Aigo	H8169	500GB

### **Compatible USB DVD Burner List**



Please upgrade the VIDEO ENCODER firmware to latest version to ensure the accuracy of the table below. And you can use the USB cable with the model recommended to set USB burner.

Manufacturer	Model
Sony	DRX-S70U
Benq	TW200D

## Compatible SATA DVD Burner List



Please upgrade the VIDEO ENCODER firmware to latest version to ensure the accuracy of the table below.

## Honeywell

Manufacturer	Model
Pioneer	DVR-215CHG
Panasonic	SW-9588-C
Sumsung	TS-H653
Sony	DRU-V200S
Sony	DRU-845S
Samsung	TS-H653
Pioneer	DVR-217CHG
LG	GH22NS30

## **Compatible SATA HDD List**



Please upgrade the VIDEO ENCODER firmware to latest version to ensure the accuracy of the table below. And SATA HDD should be used for the VIDEO ENCODER with SATA port.

Manufacturer	Series	Model	Capacity	Port Mode
Seagate	Barracuda.10	ST3750640AS	750G	SATA
Seagate	Barracuda.10	ST3500630AS	500G	SATA
Seagate	Barracuda.10	ST3400620AS	400G	SATA
Seagate	Barracuda.10	ST3320620AS	320G	SATA
Seagate	Barracuda.10	ST3250620AS	250G	SATA
Seagate	Barracuda.10	ST3250820AS	250G	SATA
Seagate	Barracuda.10	ST3160815AS	160G	SATA
Seagate	Barracuda.10	ST380815AS	80G	SATA

Seagate	Barracuda.9 ST3160811AS		160G	SATA
Seagate	Barracuda.9	ST3120811AS2	120G	SATA
Seagate	Barracuda.9	ST380811AS2	80	SATA
Seagate	Barracuda.9	ST380211AS2	80G	SATA
Seagate	Barracuda.11	ST3750330AS	750G	SATA
Seagate	Barracuda.11	ST3500320AS	500G	SATA
Seagate	Barracuda 7200.11	ST31500341AS	1.5T	SATA
Seagate	Pipeline HD.2	ST3320311CS	320G	SATA
Seagate	SV35.2	ST3160815SV	160G	SATA
Seagate	SV35.2	ST3250310SV	250G	SATA
Seagate	SV35.2	ST3320620SV	320G	SATA
Seagate	SV35.2	ST3500320SV	500G	SATA
Seagate	SV35.2	ST3750640SV	750G	SATA
Seagate	SV35.3	ST31000340SV	1T	SATA
Maxtor	DiamondMax 20	STM3320820AS	320G	SATA
Maxtor	DiamondMax 20	STM3250820AS	250G	SATA
Maxtor	DiamondMax 21	STM3160211AS	160G	SATA
Maxtor	DiamondMax 21	STM380211AS	80G	SATA
Maxtor	DiamondMax 21	STM340211AS	40G	SATA
Western Digital	Cariar SE	WD3200JD	320G	SATA
Western Digital	Cariar SE	WD3000JD	300G	SATA
Western Digital	Cariar SE	WD2500JS	250G	SATA
Western Digital	Cariar SE	WD2000JD	200G	SATA
-				

## Honeywell

Western Digital	Cariar SE	WD1600JD	160G	SATA
Western Digital	Cariar SE	WD1600JS	160G	SATA
Western Digital	Cariar SE	WD1200JS	120G	SATA
Western Digital	Cariar SE	WD800JD	80G	SATA
Western Digital	Cariar	WD1600AABS2	160G	SATA
Western Digital	Cariar	WD800BD	80G	SATA
Western Digital	Cariar SE16	WD7500KS2	750G	SATA
Western Digital	Cariar SE16	WD5000KS2	500G	SATA
Western Digital	Cariar SE16	WD4000KD2	400G	SATA
Western Digital	Cariar SE16	WD3200KS2	320G	SATA
Western Digital	Cariar SE16	WD2500KS2	250G	SATA
Western Digital	RE series	WD5000ABYS	500G	SATA
Western Digital	Caviar Green series	WD20EADS	2T	SATA
Samsung	1	HA101UJ/CE	1T	SATA

# **APPENDIX C** Compatible CD/DVD Device List



Please upgrade the VIDEO ENCODER firmware to latest version to ensure the accuracy of the table below. And you can use the USB cable with the model recommended to set USB burner.

Manufacturer	Model	Port Type	Туре
Sony	DRX-S50U	USB	DVD-RW
Sony	DRX-S70U	USB	DVD-RW
Sony	AW-G170S	SATA	DVD-RW
Samsung	TS-H653A	SATA	DVD-RW
Panasonic	SW-9588-C	SATA	DVD-RW
Sony	DRX-S50U	USB	DVD-RW
BenQ	5232WI	USB	DVD-RW

# **Appendix D** Compatible Displayer List

Brand	Model	Dimension (Unit: inch)
BENQ (LCD)	ET-0007-TA	19-inch (wide screen)
DELL (LCD)	E178FPc	17-inch
BENQ (LCD)	Q7T4	17-inch
BENQ (LCD)	Q7T3	17-inch
LENOVO (LCD)	LXB-L17C	17-inch
SANGSUNG (LCD)	225BW	22-inch (wide screen)
HFNOVO (CRT)	LXB-FD17069HB	17-inch
HFNOVO (CRT)	LXB-HF769A	17-inch
HFNOVO (CRT)	LX-GJ556D	17-inch
Samsung (LCD)	2494HS	24-inch
Samsung (LCD)	P2350	23-inch
Samsung (LCD)	P2250	22-inch
Samsung (LCD)	P2370G	23-inch
Samsung (LCD)	2043	20-inch

Please refer to the following sheet for the compatible device brand.

## Appendix D Compatible Displayer List

Samsung (LCD)	2243EW	22-inch
Samsung (LCD)	SMT-1922P	19-inch
Samsung (LCD)	T190	19-inch
Samsung (LCD)	T240	24-inch
LG (LCD)	W1942SP	19-inch
LG (LCD)	W2243S	22-inch
LG (LCD)	W2343T	23-inch
BENQ (LCD)	G900HD	18.5-inch
BENQ (LCD)	G2220HD	22-inch
PHILIPS (LCD)	230E	23-inch
PHILIPS (LCD)	220CW9	23-inch
PHILIPS (LCD)	220BW9	24-inch
PHILIPS (LCD)	220EW9	25-inch

# **Appendix E Compatible Switcher List**

Brand	Model	Network Working Mode
D-LinK	DES-1016D	10/100M self-adaptive
D-LinK	DES-1008D	10/100M self-adaptive
Ruijie	RG-S1926S	There are five network modes: 1、AUTO 2、HALF-10M 3、FULL-10M 4、HALF-100M 5、FULL-100M
НЗС	H3C-S1024	10/100M self-adaptive
TP-LINK	TL-SF1016	10/100M self-adaptive
TP-LINK	TL-SF1008+	10/100M self-adaptive

Please refer to the following sheet form compatible switcher list.

# **Appendix F Compatible Wireless Mouse List**

Please refer to the following sheet for compatible SD card brand.

Brand	Model
<b>डागा</b> सिर्फ	V80
Rapoo	3500
Logitech	M215
Shuangfeiyan	Tianyao G7-630

## Appendix G Earthing

#### 1. What is the surge?

Surge is a short current or voltage change during a very short time. In the circuit, it lasts for microsecond. In a 220V circuit, the 5KV or 10KV voltage change during a very short time (about microseconds) can be called a surge. The surge comes from two ways: external surge and internal surge.

- The external surge: The external surge mainly comes from the thunder lightning. Or it comes from the voltage change during the on/off operation in the electric power cable.
- The internal surge: The research finds 88% of the surge from the low voltage comes from the internal of the building such as the air conditioning, elevator, electric welding, air compressor, water pump, power button, duplicating machine and other device of inductive load.

The lightning surge is far above the load level the PC or the micro devices can support. In most cases, the surge can result in electric device chip damage, PC error code, accelerating the part aging, data loss and etc. Even when a small 20 horsepower inductive engine boots up or stops, the surge can reach 3000V to 50000V, which can adversely affect the electronic devices that use the same distribution box.

To protect the device, you need to evaluate its environment, the lighting affection degree objectively. Because surge has close relationship with the voltage amplitude, frequency, network structure, device voltage-resistance, protection level, ground and etc. The thunder proof work shall be a systematic project, emphasizing the all-round protection (including building, transmission cable, device, ground and etc.). There shall be comprehensive management and the measures shall be scientific, reliable, practical and economic. Considering the high voltage during the inductive thundering, the International Electro technical Committee (IEC) standard on the energy absorbing step by step theory and magnitude classification in the protection zone, you need to prepare multiple precaution levels.

You can use the lightning rod, lightning strap or the lightning net to reduce the damage to the building, personal injury or the property,

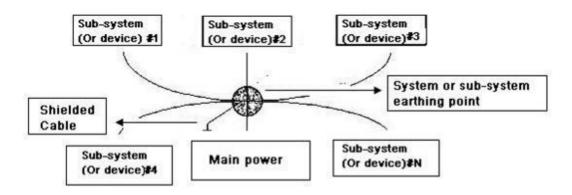
 The lightning protection device can be divided into three types: Power lightning arrester: There are 220V single-phrase lightning arrester and 380V three-phrase lightening arrester (mainly in parallel connection, sometimes use series connection ) You can parallel connect the power lightning arrester in the electric cable to reduce the short-time voltage change and release the surge current. From the BUS to the device, there are usually three levels so that system can reduce the voltage and release the current step by step to remove the thunderstorm energy and guarantee the device safety. You can select the replaceable module type, the terminal connection type and portable socket according to your requirement.

- Signal lightning arrester: This device is mainly used in the PC network, communication system. The connection type is serial connection. Once you connected the signal lightning arrestor with the signal port, it can cut the channel of the thunderstorm to the device, and on the other hand, it can discharge the current to the ground to guarantee the device proper work. The signal lightning arrester has many specifications, and widely used in many devices such as telephone, network, analog communication, digital communication, cable TV and satellite antenna. For all the input port, especially those from the outdoor, you need to install the signal lightning arrester.
- Antenna feed cable lightning arrester: It is suitable for antenna system of the transmitter or the device system to receive the wireless signal. It uses the serial connection too.
- Please note, when you select the lighting arrester, please pay attention to the port type and the earthing reliability. In some important environment, you need to use special shielded cable. Do not parallel connect the thunder proof ground cable with the ground cable of the lightning rod. Please make sure they are far enough and grounded respectively.

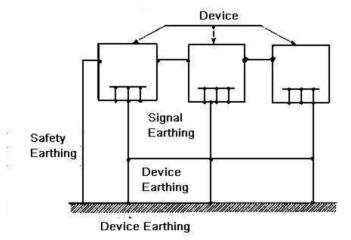
### 2. The earthing modes

We all know the earthing is the most complicated technology in the electromagnetism compatibility design since there is no systematic theory or module. The earthing has many modes, but the selection depends on the system structure and performance. The following are some successfully experience from our past work.

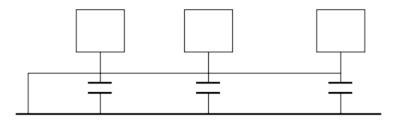
**One-point ground:** In the following figure you can see there is a one-point ground. This connection provides common port to allow signal to be transmitted in many circuits. If there is no common port, the error signal transmission occurred. In the one-point ground mode, each circuit is just grounded only and they are connected at the same port. Since there is only one common port, there is no circuit and so, there is no interference.



**Multiple-point ground:** In the following figure, you can see the internal circuit uses the chassis as the common point. While at the same time, all devices chassis use the earthing as the common port. In this connection, the ground structure can provide the lower ground resistance because when there are multiple-point grounds; each ground cable is as short as possible. And the parallel cable connection can reduce the total conductance of the ground conductor. In the high-frequency circuit, you need to use the multiple-point ground mode and each cable needs to connect to the ground. The length shall be less than the 1/20 of the signal wavelength.



**Mixed ground:** The mix ground consists of the feature of the one-point ground and multiple-point ground. For example, the power in the system needs to use the one-point ground mode while the radio frequency signal requires the multiple-point ground. So, you can use the following figure to earth. For the direct current (DC), the capacitance is open circuit and the circuit is one-point ground. For the radio frequency signal, the capacitance is conducive and the circuit adopts multiple-point ground.



When connecting devices of huge size (the device physical dimension and connection cable is big comparing with the wave path of existed interference), then there are possibility of interference when the current goes through the chassis and cable. In this situation, the interference circuit path usually lies in the system ground circuit.

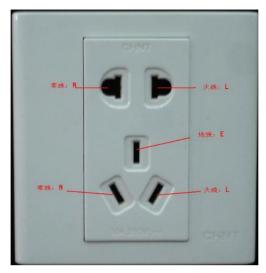
When considering the earthing, you need to think about two aspects: The first is the system compatibility, and the other is the external interference coupling into the earth circuit, which results in system error. For the external interference is not regular, it is not easy to resolve.

### 3. Thunder proof ground method in the monitor system

- The monitor system shall have sound thunder proof earthing to guarantee personnel safety and device safety.
- The monitor system working ground resistance shall be less than 1Ω.
- The thunder proof ground shall adopt the special ground cable from the monitor control room to the ground object. The ground cable adopts copper insulation cable or wire and its ground section shall be more than 20mm2.
- The ground cable of the monitor system cannot short circuit or mixed connected with the strong alternative current cable.
- For all the ground cables from the control room to the monitor system or ground cable of other monitor devices, please use the copper resistance soft cable and its section shall be more than 4mm2.
- The monitor system usually can adopt the one-point ground.
- Please connect the ground end of 3-pin socket in the monitor system to the ground port of the system (protection ground cable)

#### 4. The shortcut way to check the electric system using the digital multimeter

For 220V AC socket, from the top to the bottom, E (ground cable), N (neutral cable), L (live cable). Please refer to the following figure.



There is a shortcut way to check these thee cables connection are standard or not (not the accurate check).

### Importance

In the following operations, the multimeter range shall be at 750V!

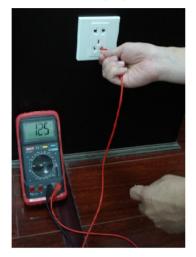
## For E (earth cable)

Turn the digital multimeter to 750V AC, use your one hand to hold the metal end, and then the other hand insert the pen to the E port of the socket. See the following figure. If the multimeter shows 0, then you can see current earth cable connection is standard. If the value is more than 10, then you can see there is inductive current and the earth cable connection is not proper.



### For L (live cable)

Turn the digital multimeter to 750V AC, use your one hand to hold the metal end, and then the other hand insert the pen to the L port of the socket. See the following figure. If the multimeter shows 120, then you can see current live cable connection is standard. If the value is less than 60, then you can see current live cable connection is not proper or it is not the live cable at all.



## For N (Neutral cable)

Turn the digital multimeter to 750V AC, use your one hand to hold the metal end, and then the other hand insert the pen to the N port of the socket. See the following figure. If the multimeter shows 0, then you can see current N cable connection is standard. If the value is more than 10, then you can see there is inductive current and the neutral cable connection is not proper. If the value is 120, then you can know misconnected the neutral cable to the live cable.



# Appendix H Toxic or Hazardous Materials or Elements

Component	Toxic or Hazardous Materials or Elements					
Name	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal(Case)	0	0	0	0	0	0
Plastic Parts (Panel)	0	0	0	0	0	0
Circuit Board	0	0	0	0	0	0
Fastener	0	0	0	0	0	0
Wire and Cable/Ac Adapter	0	0	0	0	0	0
Packing Material	0	0	0	0	0	0
Accessories	0	0	0	0	0	0

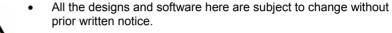
### Note

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

## Appendix H Toxic or Hazardous Materials or Elements

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes

• This manual is for reference only. Slight difference may be found in the user interface.



- If there is any uncertainty or controversy, please refer to the final explanation of us.
  - Please visit our website or contact your local retailer for more information.

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