Product Guide

BAXALL
LIMITED


March 2003

BAXALL
LIMITED

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Acknowledgments

Excellence in design, manufacturing and customer service

Baxall is the leading British manufacturer of high quality CCTV equipment and video network solutions. From cameras, switchers and receivers to the most complex systems dealing with thousands of cameras, Baxall offer the most innovative product range available. Committed to ensuring the highest standards are maintained from the design and development team right through to our unrivalled after-sales service, the company has gained an enviable reputation within the security industry for reliability and value for money.

Dedicated to innovation and total quality

The Baxall philosophy is simple: total quality in everything we do. That commitment demands an expert team working together to provide our customers with the products they want, when they want. It also requires substantial investment in the latest technology to ensure that in design and production, Baxall remains the pioneering force in the market.

Products

Providing CCTV equipment of the finest quality has been Baxall's strength for over 20 years. Our range of cameras, receivers, switchers, multiplexers and telemetry is unrivalled. The Baxall team of expert engineers ensure that our products are continually evolving to take advantage of the latest developments in this high technology industry.

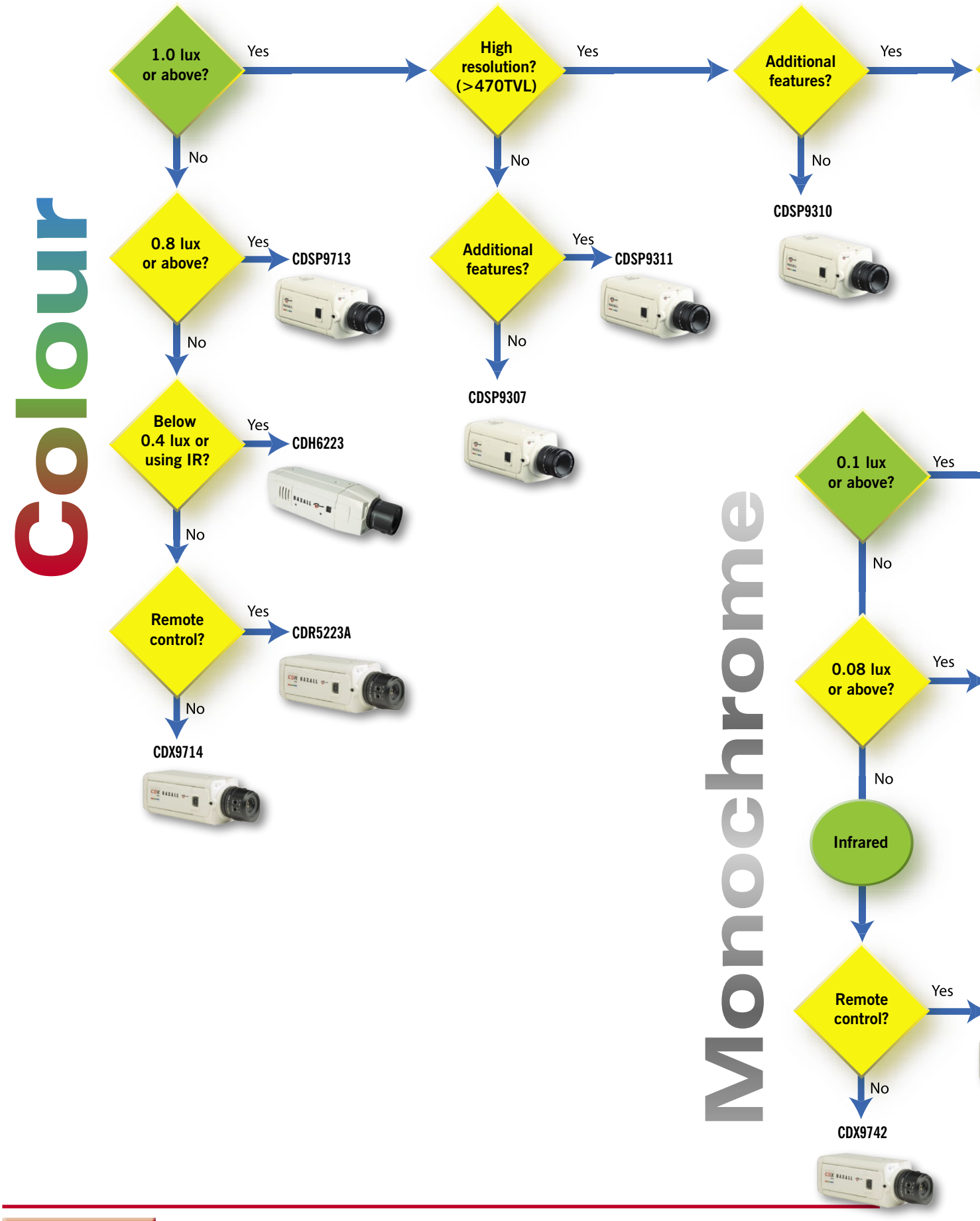
Systems

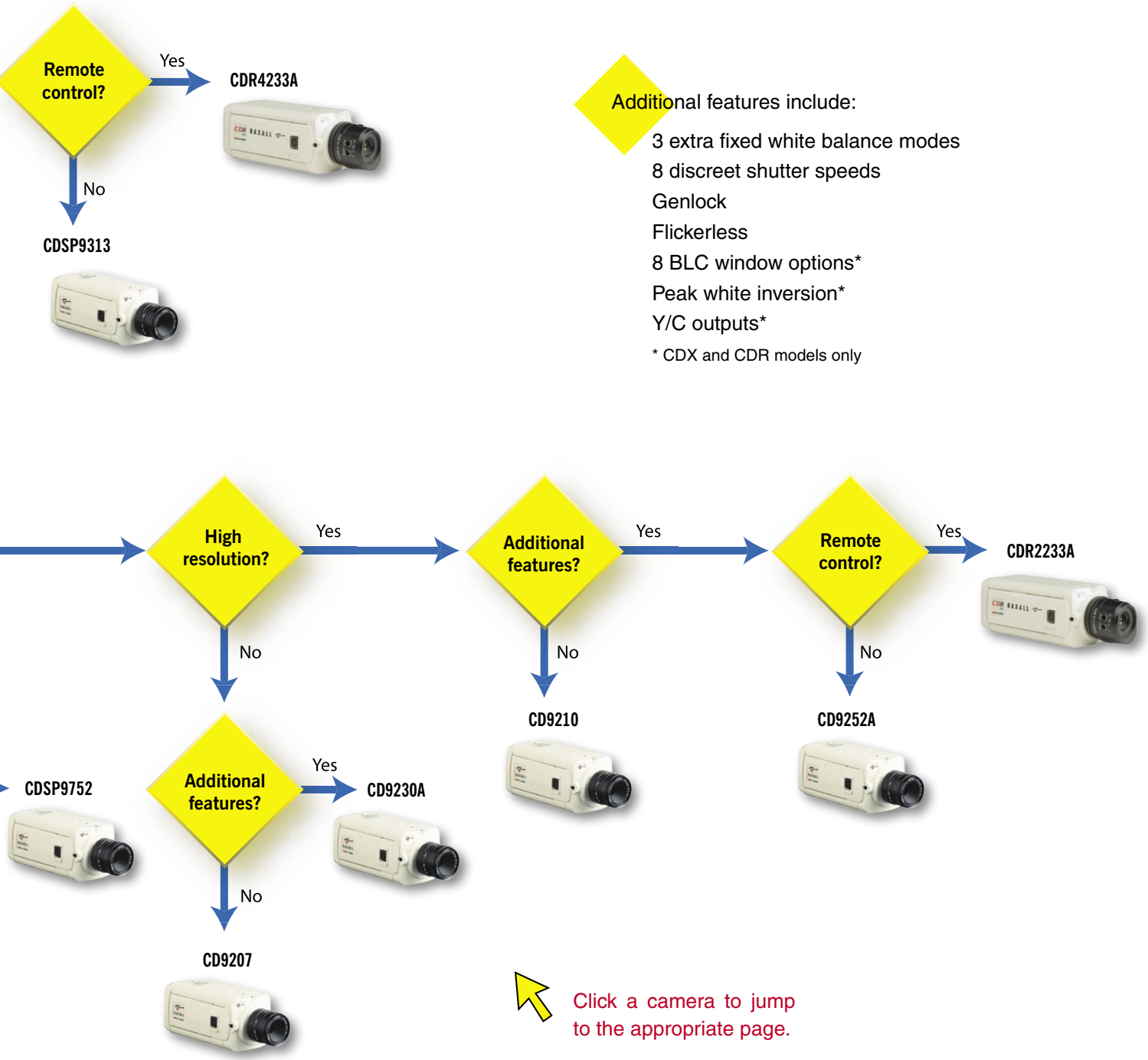
Our customers are continually demanding more intricate solutions to the most complex security situations. Baxall systems are well established both in the UK and overseas, providing high quality surveillance in town and city centres, retail centres, educational establishments, penal institutions and sports stadiums. Our flexibility in design and production makes Baxall the ideal partner for overcoming unique security challenges.

Networks

Baxall is pioneering work on transmitting video and audio through existing networks. The result is our Destiny range of products that have gained several awards for innovation. Recognising the growth of IT and communications marketplaces, Baxall will continue to remain at the forefront of development through the design of new video network products.

Selecting the correct camera




Remote control?
Yes
CDR4233A
No
CDSP9313
Additional features include:
3 extra fixed white balance modes
8 discreet shutter speeds
Genlock
Flickerless
8 BLC window options*
Peak white inversion*
Y/C outputs*
* CDX and CDR models only
High resolution?
Yes
Additional features?
Yes
Remote control?
Yes
CDR2233A
No
No
No
CD9210
CD9252A
CDSP9752
Additional features?
Yes
CD9230A
No
CD9207
Click a camera to jump to the appropriate page.
CDR3223A

CDH6223 - Day/Night Camera

- **Remote set-up via RS485 or coax with OSD**
- **Filter switching for maximum day/night performance**
- **1/2" EXviewHAD™ CCD**
- **On screen menus accessible at the camera or remotely**
- **10 bit A/D for clearer images**
- **Peak white inversion**
- **Selectable auto black**

Camera Features

Sensor	1/2" Sony EXviewHAD™ CCD
Effective Pixels	752 (H) x 582 (V)
Sensitivity	0.4 lux colour, 0.07 lux monochrome; for usable picture (40 IRE) with AGC on; lens at F1.2, 80% scene reflectance
Resolution	480 TVL
Video Output	1V p-p composite video via 75Ω BNC connector on the rear of the camera; PAL: 625 lines 50 fields per second 2:1 interlace; S-Video output: Y/C signal - Y=0.7V p-p, 75Ω C=0.3V p-p, 75Ω
Signal to Noise Ratio	Better than 48dB
White Balance	3200K, 4200K, 6300K, USER (red and blue adjust) and HOLD PUSH
AGC	Off, 8,16, 18, 20, 22, 24, 32dB
Electronic Iris	1/50s~1/100,000s menu selectable
Backlight Compensation	5 windows can be moved, resized and assigned weightings to allow completely configurable BLC
Gamma Correction	5 levels
Shutter Speeds	1/50, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10,000, flickerless
Synchronisation System	Full colour Genlock (H, V & SC adjustment), Internal or Line lock (360° adjustment)
Auto Black	Selectable with level adjust
Peak White Inversion	With adjustable threshold
Camera Title	12 characters, alphanumeric
Group Settings	Settings can be saved to 4 user groups
Group Switching	By menu or remotely via 9-pin D type connector
Remote Setup	Via coax (Baxall Telemetry) or RS485

Lens Options

Manual	Any ‘C’ or ‘CS’ mount 1/2", 2/3" or 1" lens. NB lens is not supplied
Auto Iris (video drive)	Via a 3 terminal, quick release connector at the rear of the camera
Direct Drive (DC iris)	4-pin square type socket on the side of the camera

Power Supply

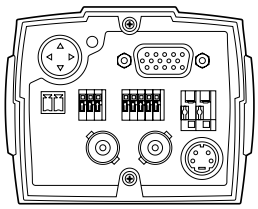
Low Voltage Only	12~30V AC; 11~40V DC
Input Power Isolation	Fully isolated power supply

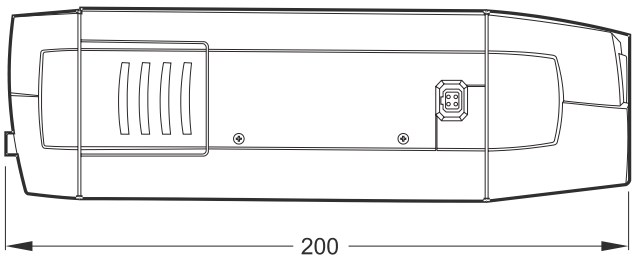
Mechanical

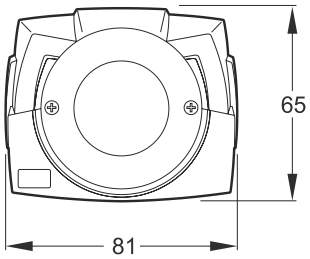
Lens Mount	C/CS via racking back focus mechanism adjustment
Camera Mount	1/4-20 UNC or 1/4" BSW (top or bottom)
Dimensions	200 (L) x 65 (H) x 81 (W) mm
Weight	0.6kg
Material	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing







CDR Range - Remote Control Cameras

- **Remote set-up via RS485 or coax with OSD**
- **1/3" & 1/2" models**
- **Colour & mono**
- **High resolution**
- **Peak white inversion**
- **On screen menus accessible at the camera or remotely**

Camera Features

Video Output	1V p-p composite video via 75Ω BNC connector on the rear of the camera; PAL: 625 lines 50 fields per second 2:1 interlace; S-Video output (colour models only) Y/C signal - Y=0.7V p-p, 75Ω C=0.3V p-p, 75Ω
White Balance	Colour models only: auto, indoor, outdoor, fluorescent, user (Red & Blue adjust) & push
AGC	Off, 8,16, 18, 20, 22, 24, 32dB
Electronic Iris	1/50s~1/100,000s
Backlight Compensation	5 windows can be moved, resized and assigned weightings to allow completely configurable BLC
Gamma Correction	5 levels
Shutter Speeds	1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 & flickerless
Synchronisation System	Full colour Genlock (H, V & SC adjustment), Internal or Line lock (360° adjustment)
Auto Black	Selectable with level adjust
Peak White Inversion	With adjustable threshold

Model Variations

Model	CDR2233A	CDR3223A	CDR4233A	CDR5223A
Camera Type	Mono	Mono(IR)	Colour	Colour
Resolution	580 TVL	580 TVL	480 TVL	480 TVL
CCD Sensor Size	1/3"	1/2"	1/3"	1/2"
CCD Sensor Type	HyperHAD™	EXviewHAD™	HyperHAD™	EXviewHAD™
Sensitivity @ F1.2	0.1 lux	0.04 lux	1.0 lux	0.4 lux
Effective Pixels	752 x 582	752 x 582	752 x 582	752 x 582
S/N Ratio	>50dB	>50dB	>48dB	>48dB

Lens Options

Manual	Any ‘C’ or ‘CS’ mount 1/3" (CDR2233A and CDR4233A only), 1/2", 2/3" or 1" lens. NB lens is not supplied
Auto Iris (video drive)	Via a 3 terminal, quick release connector at the rear of the camera
Direct Drive (DC iris)	4-pin square type socket on the side of the camera

Power Supply

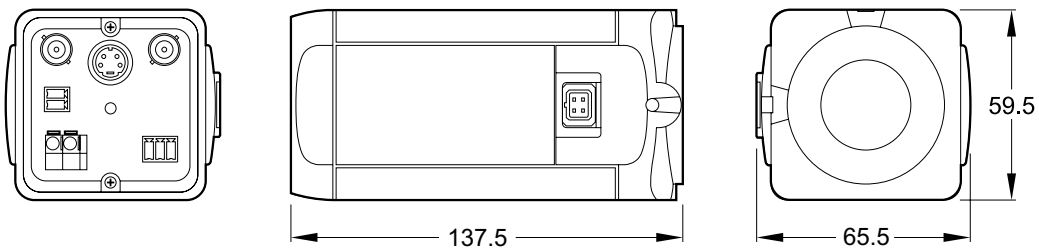
Low Voltage Only	12~30V AC; 11~40V DC
Input Power Isolation	Fully isolated power supply
Power Consumption	Less than 5W

Mechanical

Lens Mount	C/CS via racking back focus mechanism adjustment
Camera Mount	1/4-20 UNC or 1/4" BSW (top or bottom)
Dimensions	137.5 (L) x 59.5 (H) x 65.5 (W) mm
Weight	0.35kg
Material	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing



CDX9000 - EXview DSP Cameras

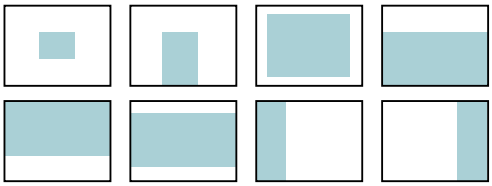
- **Digital signal processing**
- **Back focus mechanism**
- **1/2" colour and mono (IR)**
- **Comprehensive feature set**
- **All lens options supported**
- **Configurable back light compensation**
- **Peak white inversion**

Generic Features

Sensor	1/2" Sony EXviewHAD™ CCD
Video Output	1V p-p composite video via 75Ω BNC connector on the rear of the camera; PAL: 625 lines 50 fields per second 2:1 interlace; S-Video output (colour models only) Y/C signal - Y=0.7V p-p, 75Ω C=0.3V p-p, 75Ω
AGC	On/Off - selectable via DIP switch
Electronic Iris	1/50s~1/100,000s - selectable On/Off via a DIP switch
Backlight Compensation	Selectable On/Off - 8 user selectable windows (3 DIP switches)
Gamma Correction	DIP switch selectable: 0.45 or 1.0
Shutter Speeds	1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 & flickerless via 3 DIP switches
White Balance Modes	Colour models only: auto, indoor, outdoor & fluorescent - selectable via 2 DIP switches
Synchronisation System	Line lock - plus option to switch to internal synchronisation via DIP switch Genlock - BNC connector for externally generated synchronisation signal
Adjustable V Phase	The line lock vertical phase may be adjusted by ±120°
Peak White Inversion	Selectable On/Off (via DIP switch) with adjustable threshold

Model Variations

Model	**CDX9742**	**CDX9714**	**CDX9772/WF**
Type	Mono (IR)	Colour	Colour/Mono
Resolution	580 TVL	480 TVL	480 TVL
Sensitivity @ F1.2	0.04 lux	0.4 lux	0.4 lux
Effective Pixels	752 x 582	752 x 582	752 x 582
S/N Ratio	>50dB	>48dB	>48dB



Advanced backlight compensation with positional windows

Lens Options

Manual	Any ‘C’ or ‘CS’ mount 1/2", 2/3" or 1" lens. NB lens is not supplied
Auto Iris (video drive)	Via a 3 terminal, quick release connector at the rear of the camera
Direct Drive (DC iris)	4-pin square type socket on the side of the camera; DC level is user defined via a potentiometer located next to the socket

Power Supply

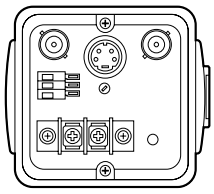
Low Voltage Version	12~30V AC; 11~40V DC
Mains Version	98~260V AC, 50/60Hz
Input Power Isolation	Fully isolated power supply
Power Consumption	Less than 5W

Mechanical

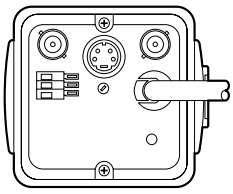
Lens Mount	C/CS via racking back focus mechanism with two adjustment points (top & side)
Camera Mount	1/4-20 UNC or 1/4" BSW (top or bottom)
Dimensions	137.5 (L) x 59.5 (H) x 65.5 (W) mm
Weight	Mains 0.6kg; low voltage 0.35kg
Material	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

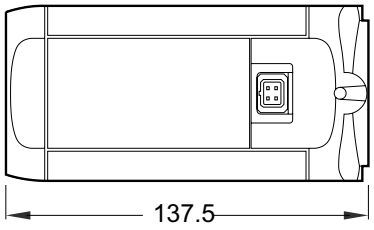
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing

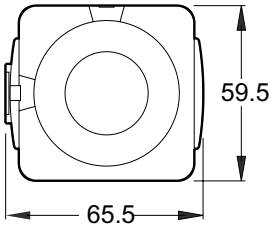


Low Voltage Models



Mains Voltage Models





CDSP9000 - Colour & Mono DSP Cameras

- **Digital signal processing**
- **4 white balance modes**
- **Back focus mechanism**
- **1/2" and 1/3" colour and mono**
- **Comprehensive feature set**
- **All lens options supported**

Generic Features

Sensor	Sony HyperHAD™ CCD
Video Output	1V p-p composite video via 75Ω BNC connector on the rear of the camera; PAL: 625 lines 50 fields per second 2:1 interlace
AGC	Selectable On/Off via DIP switch
Electronic Iris	1/50s~1/100,000s - selectable On/Off via a DIP switch
Backlight Compensation	On/Off - selectable via a DIP switch, weighted to the centre third of scene
Gamma Correction	DIP switch selectable: 0.45 or 1.0
Shutter Speeds	1/50, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 & flickerless via 3 DIP switches
White Balance Modes	Colour models only: auto, indoor, outdoor & fluorescent - selectable via 2 DIP switches
Synchronisation System	Line lock - plus option to switch to internal synchronisation via DIP switch Genlock (mono only) - BNC connector for externally generated synchronisation signal
Adjustable V Phase	The line lock vertical phase may be adjusted by ±120°

Model Variations

Model	CDSP9713	CDSP9752	CDSP9313	CDSP9311	CDSP9772
Type	Colour	Mono	Colour	Colour	Colour/Mono
Resolution	480 TVL	580 TVL	480 TVL	330 TVL	580 TVL
CCD Sensor Size	1/2"	1/2"	1/3"	1/3"	1/2"
Sensitivity @ F1.2	0.8 lux	0.08 lux	1.0 lux	0.9 lux	1.0/0.08 lux
Effective Pixels	752 x 582	752 x 582	752 x 582	500 x 582	752 x 582
S/N ratio	>48dB	>50dB	>48dB	>48dB	>48dB

Lens Options

Manual	Any ‘C’ or ‘CS’ mount 1/3" (CDSP9313 &9311 only), 1/2", 2/3" or 1" lens. NB lens is not supplied
Auto Iris (video drive)	Via a 3 terminal, quick release connector at the rear of the camera
Direct Drive (DC iris)	4-pin square type socket on the side of the camera; DC level is user defined via a potentiometer located next to the socket

Power Supply

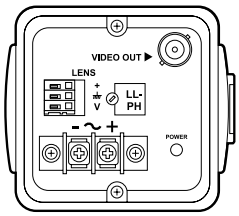
Low Voltage Version	12~30V AC; 11~40V DC
Mains Version	230V AC +6%, -10% 50Hz
Input Power Isolation	Fully isolated power supply
Power Consumption	Less than 4W

Mechanical

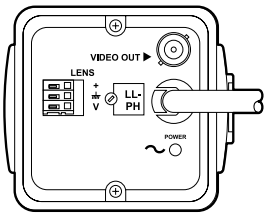
Lens Mount	C/CS via racking back focus mechanism with two adjustment points (top & side)
Camera Mount	1/4-20 UNC or 1/4" BSW (top or bottom)
Dimensions	122.5 (L) x 59.5 (H) x 65.5 (W) mm
Weight	Mains 0.6kg; low voltage 0.4kg
Material	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

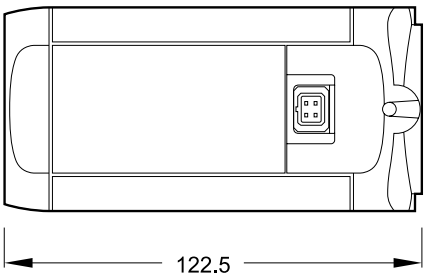
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing

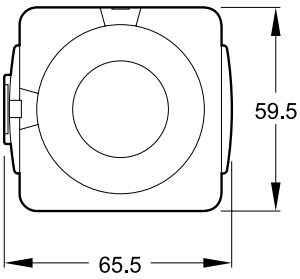


Low Voltage Models



Mains Voltage Models





CD9000A - Monochrome Camera Range

- **Analogue monochrome camera**
- **CCIR (EIA available)**
- **1/3" & 1/2" CCD**
- **High & medium resolution**

Generic Features

Sensor	Sony HyperHAD™ CCD
Video Output	1V p-p composite video via 75W BNC connector on the rear of the camera; CCIR: 625 lines 50 fields per second 2:1 interlace
Signal to Noise Ratio	Better than 50dB
Sharpness	On/Off - selectable via a DIP switch
AGC	Off/24dB/32dB - selectable via 2 DIP switches
Electronic Iris	1/50s~1/100,000s - selectable On/Off via a DIP switch
Backlight Compensation	On/Off - selectable via a DIP switch, weighted to the centre third of scene
Gamma Correction	DIP switch selectable: 0.45 or 0.8
Shutter Speeds	1/250, 1/500, 1/2000, 1/5000, 1/10,000, 1/100,000 and flickerless via 3 DIP switches
Synchronisation System	Line lock - plus option to switch to internal synchronisation via DIP switch Genlock - BNC connector for externally generated synchronisation signal
Adjustable V Phase	The line lock vertical phase may be adjusted by ±120°

Model Variations

Model	**CD9230A**	**CD9252A**	**CD9752A**
Type	Mono	Mono	Mono
CCD Type	1/3"	1/3"	1/2"
Resolution	380 TVL	580 TVL	580 TVL
Sensitivity @ F1.2	0.1 lux	0.1 lux	0.08 lux
Effective Pixels (HxV)	500 x 582	752 x 582	752 x 582

Lens Options

Manual	Any ‘C’ or ‘CS’ mount 1/3" (not CD9752A), 1/2", 2/3" or 1" lens. NB lens is not supplied
Auto Iris (video drive)	Via a 3 terminal, quick release connector at the rear of the camera
Direct Drive (DC iris)	4-pin square type socket on the side of the camera; DC level is user defined via a potentiometer located next to the socket

Power Supply

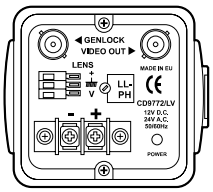
Low Voltage Version	12~30V AC; 11~40V DC
Mains Version	230V AC, +6% -10%, 50Hz
Input Power Isolation	Fully isolated power supply
Power Consumption	Less than 5W

Mechanical

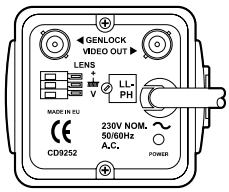
Lens Mount	C/CS via racking back focus mechanism with two adjustment points (top & side)
Camera Mount	1/4-20 UNC or 1/4" BSW (top or bottom)
Dimensions	122.5 (L) x 59.5 (H) x 65.5 (W) mm
Weight	Mains 0.6kg; low voltage 0.35kg
Material	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

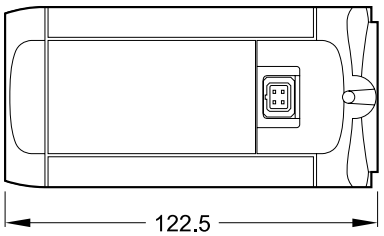
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing

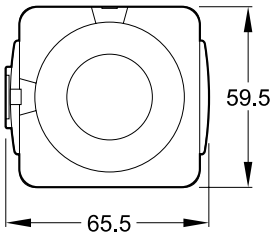


Low Voltage Models



Mains Voltage Models





V Range - Colour & Monochrome Cameras

- **Mid-range colour & mono cameras**
- **1/3" CCD**
- **Medium & high resolution**
- **PAL/CCIR (NTSC/EIA available)**

Generic Features

Sensor	1/3" Sony HyperHAD™ CCD
Video Output	1V p-p composite video via 75Ω BNC connector on the rear of the camera; PAL: 625 lines 50 fields per second 2:1 interlace
AGC	Built in 28dB
Electronic Iris	1/50s~1/100,000s - selectable On/Off via a DIP switch
Backlight Compensation	On/Off - selectable via a DIP switch, weighted to the centre third of scene
Gamma Correction	DIP switch selectable: 0.45 or 1.0
Synchronisation System	Line lock - the option to switch to internal synchronisation is provided via a DIP switch
Adjustable V Phase	The line lock vertical phase may be adjusted by ±120°

Model Variations

Model	**CD9207**	**CD9210**	**CDSP9307**	**CDSP9310**
Type	Mono	Mono	Colour	Colour
Resolution	380 TVL	580 TVL	330 TVL	480 TVL
Sensitivity @ F1.2	0.1 lux	0.1 lux	1.0 lux	1.0 lux
White Balance	N/A	N/A	Auto	Auto
Effective Pixels	500 x 582	752 x 582	500 x 582	752 x 582
S/N Ratio	>50dB	>50dB	>48dB	>48dB

Lens Options

Manual	Any ‘C’ or ‘CS’ mount 1/3", 1/2", 2/3" or 1" lens. NB lens is not supplied
Auto Iris (video drive)	Via 3 way, two part terminal block at the rear of the camera
Direct Drive (DC iris)	4-pin square type socket on the side of the camera; DC level is user defined via a potentiometer located next to the socket

Power Supply

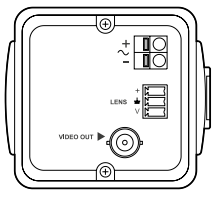
Low Voltage Version	12~30V AC; 11~40V DC
Mains Version	98~260V AC, 50/60Hz
Input Power Isolation	Fully isolated power supply
Power Consumption	Less than 4W

Mechanical

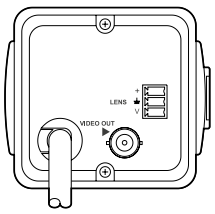
Lens Mount	C/CS via racking back focus mechanism with two adjustment points (top & side)
Camera Mount	1/4-20 UNC or 1/4" BSW (top or bottom)
Dimensions	122.5 (L) x 59.5 (H) x 65.5 (W) mm
Weight	Mains 0.6kg; low voltage 0.35kg
Material	Die-cast zinc lens mount; extruded aluminium body; flame retardant ABS plastic front trim, rear bezel and door

Environmental

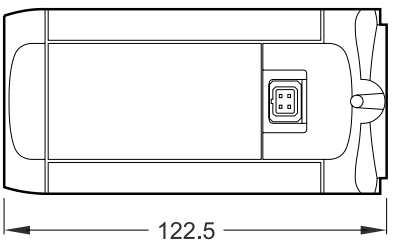
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing

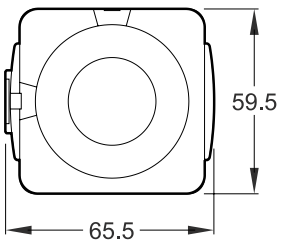


Low Voltage Models



Mains Voltage Models





Pro-Dome Series - Mini Domes

- **Proportional telemetry speed to zoom control**
- **Pendant, wall, direct or false ceiling mounting options**
- **Clear, smoked, gold or silver bubble options**
- **Language options**
- **Quick and easy release mechanism**
- **Multiple dynamic privacy zone options**
- **Tours**

Camera Features

The Baxall Pro-Dome series provides a selection of interior or exterior domes based upon the choice of either monochrome, colour, or colour/monochrome camera modules. With easy installation, operation and maintenance you can choose between wall, ceiling, pendant or direct mounts. 360° pan and 90° tilt operation are provided with an auto-flip option ensuring that no blind area occurs during operation.

With a choice of maximum speeds on some models you can connect alarms to the dome that can either switch an alarm output or trigger the dome to preset positions.

The Pro-Dome series is compatible with a range of Baxall telemetry equipment ensuring its smooth integration into your system whatever your circumstances. It also complies with government legislation towards Dynamic Privacy Zones (DPZ) allowing public areas to be masked as required by law.

Model variations

Product Code	BPD0	BPD1	BPD2
Type	Mono	Colour	Col/mono
Optical Zoom	16x	22x	23x
Memory	Yes	Yes	Yes
Telemetry	Coax/RS485	Coax/RS485	Coax/RS485
Network compatibility	Yes	Yes	Yes

Outputs

Video	1V p-p composite video, PAL/CCIR: 625 lines, 50 fields per second, 2:1 interlace
Alarms	1 output

Inputs

Telemetry	Twisted pair and coaxial control options
Power supply	24V AC, mains PSU (not included)
Alarms	1 input

Dome features

Sensor	1/4" CCD
Resolution	>470 TVL
Other Features	Digital zoom: 7:1 mono unit, 11:1 colour and colour/mono units 96 presets 3 pattern tours 8 dynamic privacy zones 8 area titles Proportional P/T to zoom Preset titles Pull down menus

Controllers*

Transmitters	ZTX6
Keyboards	ZKX2/K, ZKX2/J, ZKX3/J
Multiplexers	All ZMX+ and ZMX+ matrix models (only supported with joystick keyboard)
Networks	Pyramid System and Baxall IP

*via interface models

Mechanical

Dimensions	Internal dome: 205 x 120mm, external dome: 302 x 244mm
Weight	Internal dome: 1.36kg, external dome 3.0kg
Bubble Finishes	Internal: clear*, smoked, gold or silver External: clear* or smoked *clear supplied, alternatives can be purchased separately
Colour	Internal dome: black Accessories: off white

Environmental

Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing

DVS Range - Desk Video Switchers

- **Choice of 4 or 8 camera inputs**
- **Choice of 1 or 2 independent monitor outputs**
- **Alarms as standard on all DVS2 models**
- **VCR lock function***
- **User definable camera sequencing***
- **Programmable camera titling***
- **Camera title positioning options***
- **Variable dwell per camera***
- **Language options available***
- **Anti-tilt mechanism**
- **External BNC connections**
- **European & NTSC versions available**

Model Variations

Product Code	DVS14L	DVS14	DVS18	DVS24A	DVS28A
Camera Video Inputs	4	4	8	4	8
Monitor Video Outputs	1	1	1	2	2
Control Keys	5	5	9	6	10
Sequencing - Main Monitor	**see below	Programmable individual dwell camera enable			
Sequencing - Spot Monitor	N/A	N/A	N/A	Sequences camera inputs in numerical order, skipping unused inputs	
Dwell Adjustment	Global, 3~45s	Per input, 1~60s		Main: per input 1~60s Spot: global 5~50s	
OSD Menu	no	yes	yes	yes	yes
Built in Alarms	no	no	no	4 inputs, 1 output	8 inputs, 1 output
Programmable Titles	no	yes	yes	yes	yes
VCR Lock	no	yes	yes	yes	yes

* Not model DVS14L **Sequences camera inputs in numerical order, skipping unused inputs

Input/Output

Video signals	1Vp-p composite video via coaxial cable with BNC connectors Inputs AC coupled, maximum DC offset ± 2.7V

Power Supply

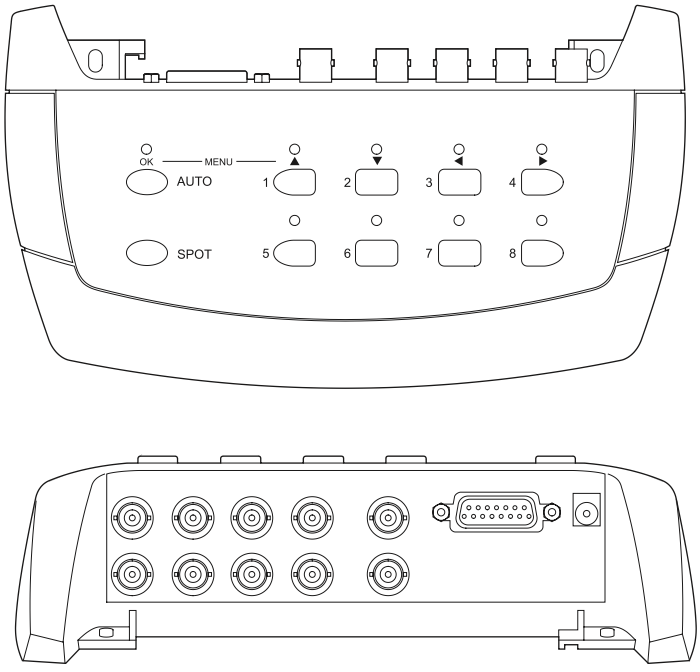
Power Supply Unit	230V AC ±10% input, max. 2.4VA; 12V DC (class 2) output
Power Consumption	Maximum 200mA, 12V DC

Mechanical

Dimensions	206 (L) x 50 (H) x 127 (W) mm
Weight	0.4kg max
Material	ABS case to UL94, Steel Base

Environmental

Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	20% to 80% relative humidity, non condensing
Storage Temperature	-10°C to +70°C (14°F to 158°F)
Storage Humidity	20% to 90% relative humidity, non condensing



DVSR Range - Remote Switcher

- **Sequences up to 16 camera inputs, with auto skip facilities & adjustable dwell time**
- **Up to 6 monitor outlets, extendible, with completely independent viewing**
- **Utilises video cables for control signals, reducing installation costs**
- **Channel identification by numerical display on the picture**
- **Attractive compact metal cased controllers for desk usage**

Overview

Having the capacity to accept up to 16 camera inputs and providing up to six monitor outlets as standard, with completely independent viewing, the DVSR Remote Switcher is a simple and economical way of installing an extendible multi channel facility. Utilising state of the art electronics, control signals are carried along the single video cables connecting the monitors to the Remote Unit, eliminating the need for any extra interconnecting wiring.

The Remote Unit can be mounted away from the user control area and includes all terminations, removing the requirement for plugs on the video cable. On screen camera numbering is provided, with auto sequencing and auto skip facilities for unused inputs and vertical interval switching techniques incorporated in the circuitry, ensure that picture bounce between compatible cameras is eliminated. Any camera can be omitted from any monitor at will.

Video

Inputs	Up to 16 cameras with 1 Vp-p video output
Outputs	Up to 4 independently controlled outlets in standard housing; additional outlets as required to order. (Up to 6 maximum in one unit)
Switching	Switching time less than 1.0 µs Dwell time - adjustable, 5~50 seconds approximately

Functions

Desk Control box	Low movement tactile press buttons providing: Manual selection; Auto Sequence; Stop Interval switching adjustment through rear of controller Auto sequencing & autoskip of unused inputs
Remote Box	Houses motherboard and plug-in outlet cards 400m max distance between remote box and desk control box

Power Supply

Input Voltage	240V AC ±10%, 50Hz standard Other voltages on request

Mechanical

Dimensions (L x W x D)	Desk controller: 141 x 88 x 36.5 mm Remote box: 225 x 215 x 75 mm
Weight	Desk controller: 0.3kg Remote box: 2.8kg
Material	Desk controller: ABS endcaps with aluminium and mild steel shell Remote box: steel casing

Optional Alarm Card

Features	16 channel externally operated alarm facility combined with monitor outlet card (daughterboard) providing 16 alarm inputs via terminal block connector Inputs N/O as standard (N/C on request) - one common pair of volts-free contacts (250V AC, 5A rated) Alarm timing out period adjustable between 5~50 seconds by potentiometer mounted on outlet card NOTE: since the alarm card is combined with the daughterboard the alarm option is not available on the single monitor switcher DVSR/1, which combines the first outlet (daughterboard) with the motherboard. A single outlet DVSR/1 with alarm option will therefore require the addition of a daughterboard

Model Variations

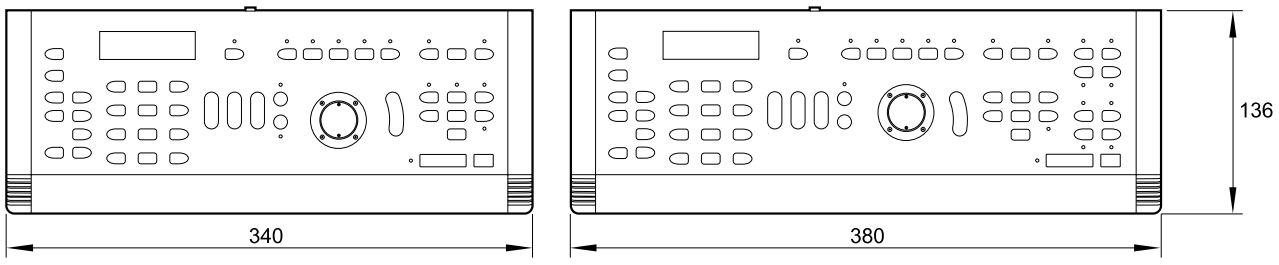
Model	Description
DVSR/0	Extra monitor output
DVSR/1	16 camera inputs, 1 monitor output
DVSR/2	16 camera inputs, 2 monitor output
DVSR/3	16 camera inputs, 3 monitor output
DVSR/4	16 camera inputs, 4 monitor output
DVSR/5	16 camera inputs, 5 monitor output
DVSR/6	16 camera inputs, 6 monitor output

ZTX6 - Telemetry Transmitter

- **Expandable matrix (8x2 modules) max 32x8**
- **Networkable with Baxnet compatible equipment (ZMX Multiplexers, ZKX2&3 keyboards, PC controlled software)**
- **Coaxial telemetry control for ZR receivers**
- **On-screen menus**
- **Control of most speed domes via Dax converters (contact Baxall for details)**
- **Flexible alarm handling**
- **Defined priority access for users**
- **19" rack or wall mountable**
- **RS485 Baxnet data (maximum 32 nodes per Baxnet)**

Model Variations

Model	ZTX6/8M2	ZTX6/16M4	ZTX6/24M6	ZTX6/32M8
Video inputs	8	16	24	32
Video outputs	2	4	6	8
Alarm inputs	8	16	24	32
Alarm outputs	2	2	2	2
Keyboard included	ZKX2/K	ZKX2/K	ZKX2/K	ZKX2/K
ZTX6 with joystick keyboard	ZTX6/8M2/J	ZTX6/16M4/J	ZTX/24M6/J	ZTX6/32M8/J



ZKX2/...

ZKX3/...

Generic features

Video Format	PAL (CCIR) composite, 1V p-p, 75Ω. NTSC (EIA) also available
Video Bandwidth	20 MHz (50%)
Differential Phase and Gain	< 5°, < 3%
Signal to Noise Ratio	-65 dB (unweighted)
Coax telemetry	Baxall simplex telemetry 120mV 222-250 KHz FSK Vertical interval synchronised
Keyboard control connection	RJ45 – Baxnet with termination and bias settings RS485
Alarm inputs	8 inputs per module NO/NC option, via removable screw terminal blocks
Alarm outputs	2 relay outputs NO/NC option, via removable screw terminal blocks
Alarm modes	Last – Displays only the last alarm input Stack – Stacks alarms on to next available monitor Seq - Rotate
Alarm acknowledgment modes	Acknowledged – Requires keyboard acknowledge to clear alarm Timed – clears alarm after a pre-determined time or by keyboard command Transparent (with minimum alarm time) – clears when alarm input clears.

Power Supply

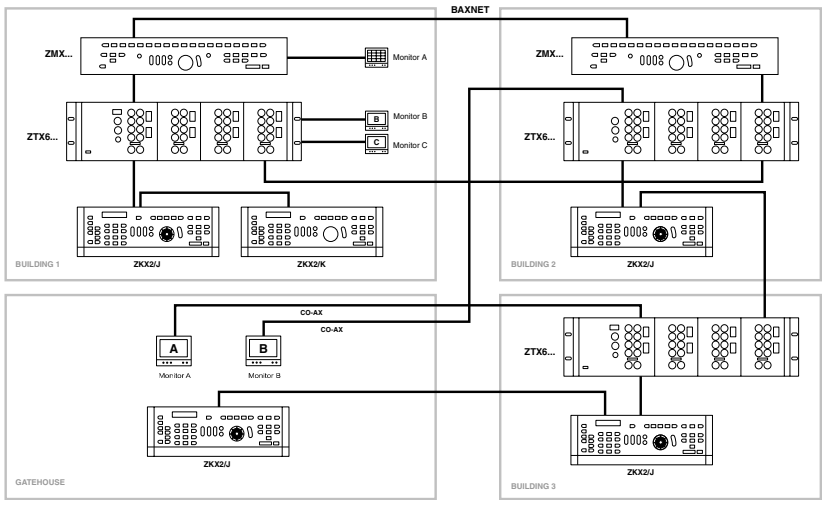
Power supply	220V AC supplied via nominal 12V DC linear PSU

Mechanical

Max. Dimensions	215mm(L) x 132mm (W) x 50mm (H)
Weight	ZTX6/8M2 - 0.9kg /16M4 - 1.4kg /24M6 - 1.9kg / 32M8 - 2.4kg
Enclosure/colour	Slate grey with white text

Environmental

Operating Temperature	-10°C to +50°C
Operating Humidity	10% to 80% relative humidity, non condensing
Storage Temperature	-20°C to +60°C
Storage Humidity	10% to 95% relative humidity, non condensing



ZTX6 Matrix Network Example

ZR Range - Coaxial Telemetry Receivers

ZR-DC pictured

- **Compatible with all pan & tilt heads**
- **Available as board (PCB) only or in weatherproof box (WBX)**
- **Range of AC voltage outputs plus 24V DC model**
- **Pan, tilt, zoom, focus and auxiliaries on all models**
- **Supports presets**
- **Twisted pair control input (20 mA current loop) for long distances**
- **Video gain and lift to compensate for long cable runs**

Model Variations

Model	ZR3M	ZR4M	ZR-DC
Type	AC	AC	DC (variable speed)
Presets	0	8	8
Auxiliaries	2	4	4
Iris control	no	yes	yes
PCB size	120 x 100 x 30mm	120 x 100 x 45mm	165 x 180 x 45mm

Video signal

Video Input	Composite video, 1V p-p, 75Ω via BNC connector
Video Output	Composite video 1v p-p 75Ω via BNC connector
Video Gain and Lift	Max gain +6dB, max lift +12dB at 5Mhz

Control telemetry

Via Video Coax	Baxall telemetry
Via Twisted Pair	20mA current loop

Outputs

Lens drive output	6V or 12V selectable @ 100mA / drive with 1 second slow start Support for 3 or 4 wire
Relays	4 normally open relay outputs Common supply rated at 240V @ 1A / output

Alarms

Inputs	8 Normally open inputs or 4 Normally open and 4 normally closed
Outputs	1 Normally open alarm contact (1 second closure on each alarm)

Power supply

Input	120~220v AC, 50/60Hz
Output	24V DC, 65W, 3A maximum

Environmental

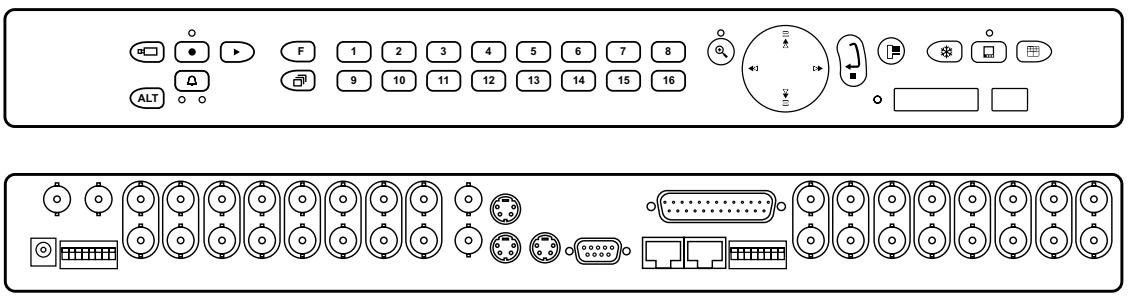
Operating Temperature	-10°C to +50°C
Operating Humidity	10% to 80% relative humidity, non condensing

ZMX Range - Multiplexers

- **Direct VCR control from multiplexer or keyboard via RS232**
- **Activity with intruder detection**
- **Covert camera setting prevents viewing by operators in live mode**
- **AutoList™ enables automatic sequence list set up with variable dwell times for up to 2 monitors**
- **VEXT automatic VCR record speed synchronisation**
- **Bax-net compatible - for systems integration to multiplexers, matrices and remote keyboards**
- **Decodes tapes from other major manufacturers (eg DM and Robot)**
- **Compatible with Baxall digital VCR**
- **On-screen menus with time and date**
- **S-VHS main and VCR connections provided**

Model Variations

Model	ZMXBD10	ZMXCD10	ZMXBD16	ZMXCD16
Type	Mono duplex	Colour duplex	Mono duplex	Colour duplex
Video Inputs	10	10	16	16
Composite VCR S-VHS VCR	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS
Alarm Inputs	10	10	16	16
Composite Monitor S-VHS Monitor	2 x BNC 1 x S-VHS	2 x BNC 1 x S-VHS	2 x BNC 1 x S-VHS	2 x BNC 1 x S-VHS
Recording Fields/sec	25	25	25	25



16 way unit shown

Video

Video Format	PAL (CCIR), composite 1V p-p, 75Ω terminated
Video Inputs	Dual loop through BNC's, termination via DIP switches. Auto & manual signal type detection
Video Outputs	BNC connectors, plus S-VHS connectors
Multi Screen Live Display	Full, Quad, 7, 9, 10, 13, 16 way & Picture in Picture
Display Resolution	720 x 576
Recorded Resolution	720 x 288

Interface

Sequence Modes	Full & multiscreen sequence option for Live and Playback displays Default all cameras with menu adjustable dwell AutoList feature: Allows customisation of a full screen sequence list & dwell time via camera keys for each monitor & display, allows up to 2 independent AutoList
VCR Clock Pulse (VEXT)	TTL field sync pulse. Duration 2~5 ms, High level +4.5V to +5.5V, Low level 0V
Remote Control	Baxnet RS485: via 2 x RJ45 connectors RS232: via 1 x 9 way D Type (Transmits up to 10 bytes on a RS232 string)
Remote Keyboards	ZKB1, ZKX2/K, ZKX2/J, ZKX3/J

Alarms

Inputs and Outputs	10 or 16 alarm inputs with audible buzzer & visible LED, programmable Interface for N/O or N/C contacts. Video loss detection (VDL) with audible buzzer & visible LED. Linkable to 2 relay outputs. I external alarm clear 2 alarm output relays. 30V AC/DC & 500mA max. N/O or N/C programmable.
Motion Detection	Activity: 16 x 16 definable mask grid. 10 levels of sensitivity Definable record speed upgrade. Linkable to 2 relay outputs
Intrusion Detection	Links motion detection to an alarm response allowing for camera full screen or quad switching on detection

Power Supply

Input voltage	12V DC via 2.1mm jack connector. 110/220 V AC input PSU supplied
Power Consumption	38W max

Mechanical

Dimensions	1 U high 19" rack mount. 445 x 45 x 360 (W x H x D mm)
Weight	6.5 kg (unit) 8 kg (shipping)
Enclosure/colour	Rugged Metal Chassis in Slate Grey (rack ears supplied)

Environmental

Operating Temperature	0°C to +40°C (32°F to 104°F)
Max.Operating Humidity	90% relative humidity, non condensing

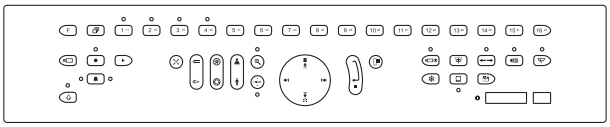
ZMX Plus - Multiplexers with Telemetry

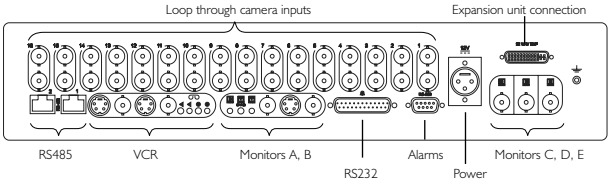
- **Built-in coaxial telemetry**
- **Parallel Video Processing (PVP) for 50 frames/second**
- **Range includes built-in matrix models providing 1 main and 4 spots**
- **Direct VCR control from multiplexer or keyboard via RS232**
- **Activity with intruder detection**
- **Covert camera setting to prevent operators viewing the images in live mode**
- **VEXT automatic VCR record speed synchronisation**
- **AutoList™ enables automatic sequence list set up with variable dwell times for up to 2 monitors**
- **Bax-net compatible - for systems integration to multiplexers, matrices and remote keyboards**
- **Decodes tapes from other major manufacturers (eg DM and Robot)**
- **Compatible with Baxall digital VCR**
- **On-screen menus with time and date**
- **S-VHS main monitor and VCR connections provided**

Model Variations

Model	ZMX+BD16	ZMX+CT10	ZMX+CD16	ZMX+BT16M4	ZMX+CT16M4
Type	Mono Duplex	Colour Triplex	Colour Duplex	Mono Triplex	Colour Triplex
Video Inputs	16	10	16	16	16
Composite VCR **S-VHS VCR**	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS	2 x BNC 2 x S-VHS
Expandable to 32 Inputs	No	No	No	Yes (ZMX+BT32M4)	Yes (ZMX+CT32M4)
Alarm Inputs	16	10	16	16(32)	16(32)
Composite Monitor **S-VHS Monitor**	2 x BNC 1 x S-VHS	2 x BNC 1 x S-VHS	2 x BNC 1 x S-VHS	2(5) x BNC 1 x S-VHS	2(5) x BNC 1 x S-VHS
Recording Fields/sec	50	50	50	50	50

16 channel unit pictured





Video

Video Format	PAL (CCIR), composite 1V p-p, 75Ω terminated
Video Inputs	Loop through BNC's auto terminating, auto & manual signal type detection
Video Outputs	BNC connectors, plus S-VHS connectors
Multi Screen Live Display	Full, Quad, 7, 9, 10, 13 and 16 way and Picture in Picture. Plus 25 way on 32 input models
Resolution	Display: 720 x 576, Recorded: 720 x 288

Interface

Sequence Modes	Full & multiscreen sequence option for Live and Playback displays Default all cameras with menu adjustable dwell AutoList feature: Allows customisation of a full screen sequence list & dwell time via camera keys for each monitor & display, allows up to 2 independent AutoList
VCR Clock Pulse (VEXT)	TTL field sync pulse. Duration 2~5 ms, High level +4.5V to +5.5V, Low level 0V
Remote Control	Baxnet RS485: via 2 x RJ45 connectors RS232: via 1 x 9 way D Type (Transmits up to 10 bytes on a RS232 string)
Remote Keyboards	ZKB1, ZKX2/K, ZKX2/J, ZKX3/J

Alarms

Inputs and Outputs	10, 16 or 32 alarm inputs with audible buzzer & visible LED, programmable Interface for N/O or N/C contacts. Video loss detection(VDL) with audible buzzer & visible LED. Linkable to 2 relay outputs. I external alarm clear 2 alarm output relays. 30V AC/DC & 500mA max. N/O or N/C programmable.
Motion Detection	Activity: 16 x 16 definable mask grid. 10 levels of sensitivity Definable record speed upgrade. Linkable to 2 relay outputs
Intrusion detection	Links motion detection to an alarm response allowing for camera full screen or quad switching on detection

Telemetry control

Baxall Coax telemetry on all monitors and first 16 channels for:
ZR3M, ZR4M, ZR-DC, DAX (Dome converters)
Built-in Preset Park (TL1) & Random Preset Patrol (TL2) Tour facility
Pseudo variable speed using front panel controls
Twisted pair converter also available ZT-TP1
(Note: Full variable speed telemetry only available with ZKX2/J and ZKX3/J keyboards and on the first 16 channels of a 32 way unit)

Power Supply

Input voltage	12V DC via 2.1mm XLR connector. 110/220 V AC input PSU supplied
Power Consumption	38W max

Mechanical

Dimensions	1 U high 19" rack mount. 445 x 90 x 360mm (W x H x D), expander main unit
Weight	6.5 kg
Enclosure/colour	Rugged Metal Chassis in Slate Grey (rack ears supplied)

Environmental

Operating Temperature	0°C to +40°C
Max.Operating Humidity	90% relative humidity, non condensing

DTL Series - Digital Video Recorders

- **VCR functionality with instant video retrieval**
- **VCR style control panel**
- **No tapes to manage or tape heads to clean or replace**
- **On-screen menus for image search**
- **Records and plays multiplexed video**
- **Alarm-activated recording**
- **Programmed with common time-lapse speeds**
- **10/100 BaseT Ethernet via RJ45**
- **RS-232 remote control and upload**
- **Audio**
- **Event timers**
- **Built in CD-Writer or removable hard disk drive**

Overview

Baxall's DTL series of single channel digital video recorders, operate in a similar way to the traditional VCR. The familiar buttons on the control panel make it simple in operation and extremely user friendly. The DTL series delivers crisp images, whether in play, reverse, fast forward, fast reverse or pause mode where sharp and stable images can also be viewed frame by frame. Through a simple on-screen search menu, precise access to recorded events eliminates time spent rewinding and fast forwarding. The "e" in the product name denotes that the unit can be assigned its own IP address and by using the supplied WaveReader Software, live or recorded images can be viewed on a LAN or WAN.

The DTL96Ce, offers the highest specification available within the series. Boasting features such as ethernet, audio and built in CD-Writer, the DTL96Ce can record and play back video in the same way as a time lapse VCR and can record at speeds of up to 50 pictures per second (PPS), or as low as 0.1PPS. This makes it ideal for event recording, or time-lapse photography.

Using the built in CD-Writer, video clips of at least 20 minutes can be copied from the hard drive and opened again at a later date on a PC running WaveReader software. The images can then be printed, enhanced or forwarded onto other recipients. Recordings can be archived automatically for any number of days, weeks or even longer, with an optional MDAe (Multi-Disk Array) available separately from Baxall, or a DAT or AIT storage system.

Other features include unlimited video viewing without image degradation, data transfer and standard VCR I/O facilities such as event timers, alarm recording, audio and S-VHS input and output. To assist in compliance with the CCTV Code of Practice within the Data Protection Act 1998, the unit boasts an Auto Delete Mode that can be turned on from 1 day to 99 days.

Models

DTL-96Ce-80, DTL-96Ce-160, DTL96Ce-320
DTL-900-40, DTL900-120, DTL900-240
DTL-90R, DTL-96Re (80GB HDD as standard)
REM-HDD80 spare caddy with 80GB HDD for use with DTL-90R and DTL-96Re
DTL-96Ne*, DTL90N*.

Video

Video Colours	YUV 4:2:2, 16.8 million colours
Greyscale	256 levels
Horizontal Resolution	720 pixels
Vertical Resolution	576 lines PAL/CCIR
Signal Format	PAL/CCIR

Storage

Hard Drive Capacity	HDD size up to 320GB available
Recording Speeds	50, 25, 17, 10, 5, 3, 2, 1, 0.5, 0.2, 0.1 pictures per second, and event
External Archive	DAT or AIT or CD-Recorder One SCSI, DB 50-S-SCSI (reversed) Contact Baxall for recommended models
External HDD	Removable HDD 80Gb or 160Gb

Connections

I/O Port	10 way screw terminal connector: Alarm input and output, Record Start in, Alarm Record reset, VEXT Pulse out, Error out, Ground, Video Loss out, Disk End (5 minutes) out
RS-232	9 way D type, male, 3-wire, N-8-1, baud rate selectable in menus
Composite Video	BNC connectors, one each input and output
S-VHS	DIN connectors one each input and output
Audio	Phono connector (signal type - line)
Network	RJ45 connector for 10/100 BaseT Ethernet

Remote Control

Via RS-232	Allows control from PC or multiplexer, software upgrades & remote control of front panel buttons

Power Supply

Input Voltage	110~230V AC
Power	<50W nominal (Maximum with dual hard drives and internal CD-Writer)

Mechanical

Dimensions	438 x 385 x 88 mm, (17.3 x 15.2 x 3.5 in). 2U rack height
Weight	7.5kg (16.53 lbs) Maximum weight with dual hard drives and internal CD-Writer

Environmental

Operating Temperature	0 to 40º C
Relative Humidity	90% max. relative humidity, non-condensing

** Reserved products not for general use. Contact Baxall Export Sales for more details*

MDAe - Hard Drive Storage/Archive

- **Holds up to 8 internal disk drives**
- **960GB of storage**
- **Background archiving**
- **Selective archiving**
- **“Continuous" or “Disk full". No overwrites modes**
- **SCSI 2 interface cable supplied**
- **Compatible with DTL900 and DTL96Ce series**
- **3 Months storage in equivalent 24Hr mode, Medium Video Quality**
- **Purchase unit with or without hard drives installed**
- **WaveReader software**
- **10/100 BaseT Ethernet via RJ45**

Overview

An addition to Baxall’s hard disk recording products is the Multi Disk Array (MDAe), a digital video storage system. Designed with the CCTV security industry in mind, with the ability to support up to 8 hard drives (storage capacity of 960GB), the MDAe is truly the most effective and efficient method of maintaining hard drive recordings when used in conjunction with the DTL96Ce hard disk recorder.

LCD and LED indicator lights show how many hard drives are installed and operating, and the total disk storage capacity. Rack-mount handles are provided with the unit for simple installation.

Compatible with WaveReader software (version 2.7), retrieval and viewing of video is simple for users. WaveReader software enables the user to search and view the archived images directly from the MDAe. Images can also be captured, printed and exported as a file using Wavestudio software.

960GB capacity										
Pictures per second		50	25	17	10	5	3	2	1	0.5
Equivalent tape capacity		3hr	6hr	9hr	12hr	24hr	48hr	72hr	120hr	240hr
Video quality (Recording time in hrs)	High	6.7	14	19.8	33.7	67.3	112	168	337	673
	Medium	9.3	19	27.2	46.3	93	154	231	463	926
	Standard	14.8	30	43.6	74.1	148	247	370	741	1481

Electrical

Input voltage	110 – 120 VAC (60 Hz) / 200 – 240 VAC (50 Hz)
Power	60Hz at 110 VAC, 50Hz at 220 VAC

Network

One RJ45 connection	10/ 100 Mbit Ethernet

Mechanical

Weight	28 lb (Caution: weight may vary depending on number of hard drives installed)
Construction	Steel, rack-mountable, 3U
Finish	Dark grey

Storage

Hard drive(s)	Up to 8 x Maxtor IDE HDD, sizes up to 160GB/ drive

Connections

SCSI Ports 1 and 2: 50-pin, high-density, SCSI 2

RS232 port: DB-9 connector, male, null modem cable required

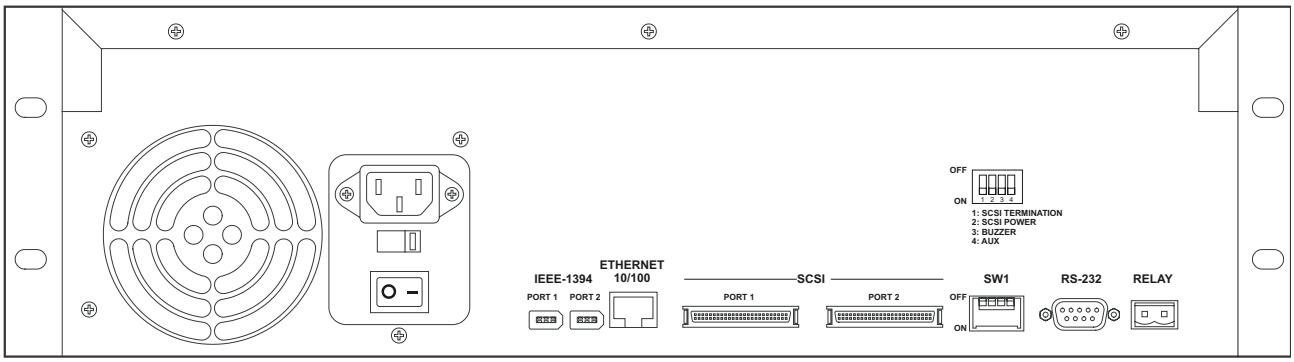
Relay connection

Front Panel Indicators

Hard Drive Status	Light On: Drive present and operating
	Light Flashing: Drive present, error detected
	Light Off: No drive present, or drive damaged
Hard Drive Activity	Light on when the drive is being accessed (read or written to)
LCD	When power up is complete, the LCD displays the total disk storage capacity of the unit.

Dimensions

483 x 130.81 x 350.52mm (L x W x H)



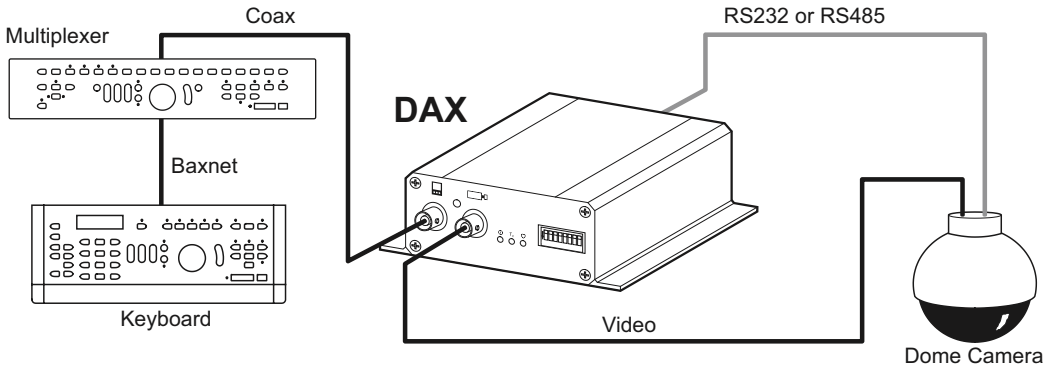
DAX - Dome Interfaces

- **Easy to install**
- **Auto tuning**
- **Compatible with leading dome brands**
- **Access to 16 presets supported depending on dome**
- **Patrol function available, DAX driven**
- **Pan flip (Auto flip) function supported on some domes**
- **Supports proportional variable speed**
- **One transmitter controls AC or DC receivers and Dax converters**
- **Compatible with Baxall coaxial ZTX6 and ZMX Plus telemetry transmitters**

Overview

The DAX range of dome converters is designed to control leading brands of variable speed domes via ZTX6 and ZMX Plus coaxial telemetry transmitters. Control is enabled by converting Baxall co-axial telemetry signalling into twisted pair protocols for selected proprietary domes.

Installation of the domes is made simple as all signals are transmitted along the coaxial cable to the DAX. Control can be maintained at distances up to 500 metres using correctly specified coax cable. Compatible with ZTX6 and ZMX Plus using joystick keyboard ZKX2/J or ZKX3/J for proportional variable speed.



Video

Input	Composite video 1V p-p 75 ohm terminated, BNC connector
Output	Composite video 1V p-p 75 ohm terminated, BNC connector

Interface

Data Comms	RS485, RS232

Power Supply

Input Voltage	12V DC (240V AC adapter supplied) or 24V AC.
Power Consumption	<50mA

Physical

Dimensions (WxHxD)	115 x 37 x 107mm
Weight	242g
Enclosure / Colour	Anodise black aluminium

Environmental

Operating Temperature	0~40°C operating (-20°~80°C storage)
Operating Humidity	20% to 80% relative humidity max, non condensing

Supported Domes

	Models	Baxall Code
JVC	TK-C675BE, TK-C675E	DAX/JVC
Star	MD-100, MD800, MD-1200S, MD1200H, MD-2000	DAX/DMA
Sanyo	VCC-9200P	DAX/DMA
Computar	SMD08P, SMD-0811, SMD-12, SMD-1211, SMD-20	DAX/DMA
Mark Mercer	D250 mpT, D400 mpT, D500mpT	DAX/MM
Dennard	Type 2050	DAX/DEN
Vicon	V7UVS-CC, V7UVS-MC, V15UVS, Surveyor 99, Surveyor 2000	DAX/VIC
Phillips/Burle (RS232 I/F only)	TC750-4-2, TC750-6-2, TC750-9-2, TC750X-2-2, TC750X-6-2, TC750X-9-2, TC770-4-2, TC770-6-2, TC770-9-2, TC770X-4-2, TC770X-6-2, TC770X-9-2	DAX/PHIL
Panasonic	WV-CSR300, WV-CSR400, WV-CSR600, W-CSR850	DAX/PAN
Pelco	Will control any Pelco dome running Pelco “D" protocol	DAX/PEL
Kenko	DAP16-H3	DAX/KEN
Ultrak	Will control all KD6 domes. KDZ domes controlled after initial programming via JPD keyboard	DAX/UL
Sensormatic	Optima, Ultra 3, 4 and 6	DAX/SEN
VCL	Orbiter lite, Orbiter and Jupiter	DAX/VCL

Pyramid - Echelon Based Matrix System

- **Simple twisted pair data network cabling**
- **Flexible topology**
- **Multi level security**
- **Programmable via on-screen menus**
- **Interfaces to other system networks**
- **Extensive camera control features**
- **Easily expanded through modular design**
- **Smart-card protected keyboard**

Overview

The Pyramid System is a highly flexible video management system. It simplifies installation, maintenance and expansion of CCTV networks and offers exceptional functionality for systems with up to 144 cameras and up to 32 monitors. Multiplexers, VCRs and matrices can all be controlled from one keyboard, or a number of distributed keyboards.

Pyramid is suitable for large systems such as town centres, football grounds, sports stadiums, carparks etc.

Multiple points of control can be distributed around a Pyramid system. These can be keyboards or PC-based interfaces. Each user on the system can be allocated a priority level, enabling effective system management when more than one user wishes to control a vital resource. Control authority limitations can also be defined.

System features

Single twisted pair data network - simplifies cabling and keeps costs down
Flexible topology - either daisy chain, star or a mixture of both
Smart card, user priority, resource allocation and access level protection
Programmable via user friendly on-screen menu
Multi network media options can be installed with any combination of RS485, RS422, FTT10 or direct fibre
Unique flexible network expansion system using Star drivers and network expanders
Interfaces to a wide range of other system networks
Camera control features eg variable speed control, random and patrol tours, privacy zones, up to 128 camera presets per receiver
Easily expanded through modular design
Lap top installation tool enables simple system configuration
Network connection by twisted pair FTT10, RS485, fibre optics or microwave
IP connectivity - universal and flexible support for wide range of dome products

Matrix features

48 camera inputs, 16 monitor outputs as standard, with full cross-point switching
Echelon based technology, provides easy interfacing to other industrial equipment
On-screen text on all monitors as standard
8 x RS232 ports as standard for control of VCRs and multiplexers
Printer logging port for alarms and user access
Expandable to 144 inputs and 32 outputs using slave matrices
Multiple matrix capability for larger systems

Installation tool

System is programmable from a laptop or PC and enables remote camera addressing, camera titling and configuration of systems facilities, including alarms

Alarm handling

Up to 1024 networked alarm inputs may be individually switched
Preset positions and views on alarm
On-screen messages may be generated
Transmit audio signal to operator on alarm
Active Alarm List on separate monitor

Keyboard functions

Camera and monitor selection
Control of fixed and variable speed PTZ cameras
Twist joystick for rapid, precision zoom control
Camera focus/iris, wash-wipe/lighting controls
System configuration and addressing
VCR and multiplexer control
Backlit LCD display for operator information

Compatibility

7000 systems using PY-7000
Baxall ZR mini receivers using PY-COX coaxial telemetry converter
Most market leading VCRs and multiplexers including Baxall ZMX, ZMX+, DTL and Vista Columbus
Universal dome interface compatible with Ultrak, Vicon, VCL, Panasonic, JVC, Pelco, Dennard and Mark Mercer domes - other domes will be added

Destiny IP - Digital Network Video

- **Constant quality video that remains fit for purpose**
- **Highly flexible and scaleable**
- **Low bandwidth digital CCTV over any existing or new Ethernet network**
- **Can integrate legacy analogue solutions**
- **Low cost implementation and maintenance through single convergent network**
- **Possible to route video over any private or public network**
- **Bi-directional audio for point-to-point connections**
- **Alarms inputs and device switching outputs**
- **Serial data communication for other third party applications**
- **Various software options from simple web-servers to comprehensive multi-user controllers**

Overview

The Destiny-IP video solution enables video images to be transmitted and viewed over networks. It consists of several network compatible devices that address, transmit and control real-time video, data and audio streams over IP networks.

Providing a simple to assemble but sophisticated CCTV solution, Destiny-IP can operate in a standalone capacity or as an extension to an existing analogue system. Remote monitoring can be cost effectively implemented via the network and the scope of the traditional CCTV network can be extended due to its ability to share the viewing and control of images from different points on the network.

The Destiny range of products has been designed to support both TCP/IP (Transmission Control Protocol) and UDP/IP (User Datagram Protocol). The products can be directly connected to an Ethernet network which can be incorporated into a dedicated network or as part of a LAN, MAN or WAN configuration.

CCTV over Ethernet and internet networks opens up a realm of possibilities for security installers and end users. The installer can branch out into new areas combining security with a number of different functions namely access control, information technology or finance applications. This makes it an excellent sales tool as the cost of the system can be spread between clients' departments.

Also for the end user real cost savings can be made as existing networks can be used for the application. Additionally the Destiny IP equipment can be applied for non-security applications such as access control, information technology or market research purposes to learn about consumer behaviour for instance.

Destiny IP - the possibilities are endless

Caltrans

Baxall recently supplied Caltrans with the Destiny IP range of software products for use on the 15,000 mile California State Highway System.

Baxall provided 430 CCTV cameras and a number of IP Codecs for the project. The IP Codecs convert camera signals into compressed data, allowing full-motion, real-time, digital quality video, together with audio and data, to be transmitted across an IP network. The Destiny IP Codec solution was used due to its flexibility as it enables multiple Caltrans' operators to view the same image simultaneously from numerous locations. Currently, the CCTV images are restricted to Caltrans employees, but with the introduction of the new Baxall software, plans are already afoot to make some CCTV images available for view on the internet, allowing the public to check the highways for traffic themselves.

Vatican

At 44 square kilometres in size, Vatican City is the world's smallest independent state, with a tiny population that magnifies during the working week. To meet the demanding security needs of the Vatican City, Baxall designed and installed a Destiny IP solution featuring encoders and decoders. It has provided a highly flexible solution, enabling local and remote monitoring simultaneously via the City's existing network.

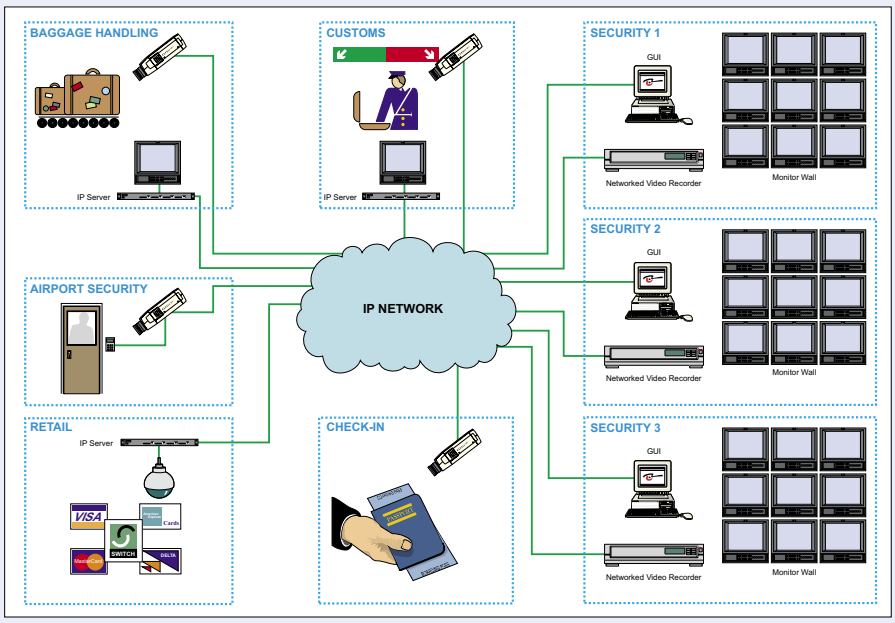
Each Destiny IP encoder is linked to a multiplexer so that any camera on the system can be viewed and controlled, either as a single, full screen or as a quad display. Control is via a simple GUI that allows for pan, tilt and zoom functions to be controlled and camera-to-monitor switching.

Brussels Airport

Baxall worked in conjunction with ENI of Belgium to produce a CCTV system for Brussels airport. The CCTV system was originally installed to cover the airport solely, however as further growth is intended, it is engineered to adapt and support any changes as the airport develops.

The Destiny IP network video range was based around IP, sending CCTV images across an Ethernet network that can be configured as a LAN, MAN or WAN. The advantage of using the Destiny IP system in an airport environment is its scope and flexibility; it can be used by the police, fire services, baggage handling and customs and excise for a variety of different purposes, at different places and all at the same time.

When completed, Brussels airport will have a state of the art CCTV system that offers 25 images per second streaming video from 700 cameras, whilst retaining existing cameras with the use of IP encoders. There will be three control rooms with the familiar analogue video walls and the new Graphical User Interfaces.



Typical example of an airport video network configuration

Destiny IP - The possibilities are endless

IP Camera

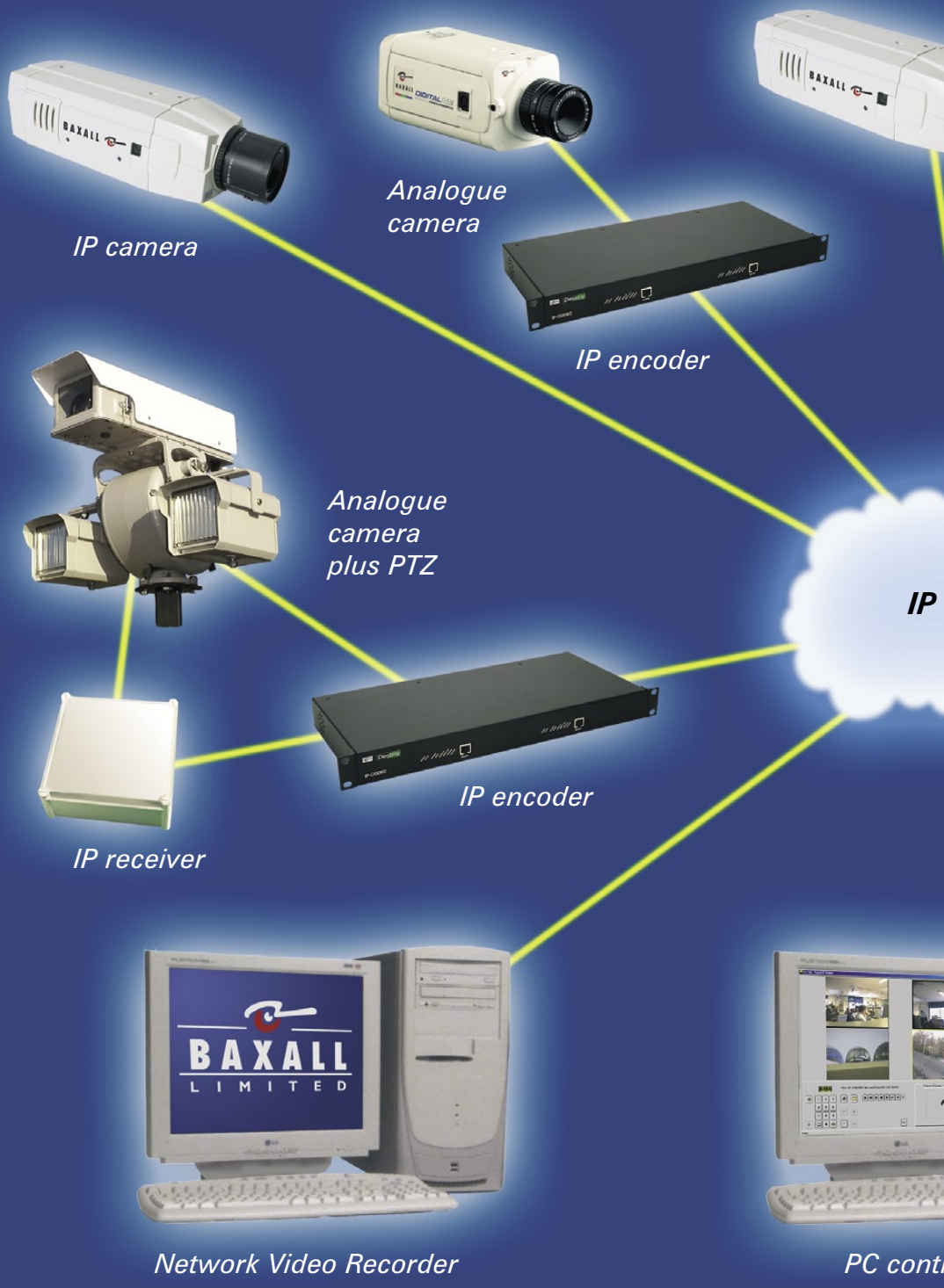
- A single IP camera accommodating up to 4 analogue video signals
- Transmits and receives video, audio, serial and alarm signals over 10/100 Base T Ethernet networks
- Supports colour or black and white video images on PC's and traditional analogue monitors
- High quality CIF resolution images at 25 frames per second
- Low network bandwidth utilization
- Supports RS232/422/485 serial data for PTZ and other local devices

IP Receiver

- Provides full pan, tilt, zoom and lens functionality
- Transmits transparent data via RS422
- Contains four relay outputs as standard for wash, wipe, lamps and auxiliary.
- Supports up to 128 presets with various options for patrol or auto-pan modes
- No additional interface for Ethernet network required
- RS422 serial data connection

Network Video Recorder

- Centralised recording tool for a customized solution
- Available as 16/32/100 stream device enabling the same number of streams to be recorded at any one time
- Quick and easy development tool it is a cost effective alternative to high cost DVR technology
- Compatible with the whole Destiny IP range ensuring comprehensive integration
- Enables configuration of continuous recordings or alarm event recording



IP Webserver

- Enables distributed viewing of images on any PC
- Provides serial data for PTZ domes and other serial devices
- Low cost option by viewing small groups of cameras at 4-5 frames per second
- Images displayed in a choice of resolution for non-critical or extremely sensitive circumstances

IP Codec

- Can be configured as an encoder or decoder
- Supports viewing of images on PC's and traditional analogue CCTV monitors
- Provides high quality CIF resolution images at 25 frames per second
- Low network bandwidth utilization
- Control new or legacy domes and PTZ devices over any sized network
- Supports telephony quality audio for help points of door access applications
- Enables up to six binary inputs and outputs for alarm trigger and device switching

IP Keyboard

- Similar functions to a CCTV keyboard
- No additional interface to Ethernet network
- Durable, high quality three-axis joystick
- Large back lit LCD display for clear messaging
- Shortcut keys to all functions
- Multi-level protection for unauthorized access
- Popular for operation at remote sites

PC controller

- Provides scalable configuration, viewing and event management
- Operate on any Windows 98, 2000, M.E and NT platform.
- Extensive list of drivers for PTZ, Domes and other third party devices
- Enables configuration of all devices, users, systems and alarms operating an easy to use graphical interface.

Your local Baxall agent is: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