

GOLDCREST SURVEILLANCE DIVISION LTD-DISTRIBUTION

CCTV

2005/2006
CATALOGUE

GOLDCREST SURVEILLANCE DIVISION LTD - DISTRIBUTION

INTRODUCTION :

Goldcrest Surveillance Division Ltd (GSD) was formed as a security specialist in the high security market. Our company's strengths and assets are that we offer a complete turnkey solution ranging from the research and development of products, installations and service support.

MANUFACTURE & DEVELOPMENT

GSD manufacture, develop and import a range of CCTV and surveillance systems. The core products that we manufacture exclusively for our current client base are Digital Security Recording solutions with a varying level of software packages from one to hundreds of cameras. The recording systems can be tailored to suit any requirements from a 4 to a 168 channel recording suite. There are also different software packages that we can associate with the recording of your CCTV requirements.

Facial Recognition, Biometrics and Iris, Thumb and Scan Print together with other Access Control solutions such as ANPR, Speed Camera Enforcement and other Macro packages can also be used to enable functions through gates, barriers, intercoms and other managed systems in association with guarding companies.

1 CCTV VIEWING SOLUTIONS

The cameras that we manufacture and import range from a standard monochrome black/white camera to high-resolution colour fixed cameras with pan and tilt. We currently have over 200 cameras in our portfolio. Our range of sophisticated surveillance cameras and lenses can be used in overt/covert operations.

Within our specialist surveillance division, we have ex military and police managers at your disposal. Consultants are available to advise on anti terrorism explosives and fire evacuation procedures.

ACCESS CONTROL

We exclusively use PAC International with respect to Access Control. We have found that partnering with an equally dynamic company has provided our end users with an excellent service. PAC as a systems provider and manufacturer, accommodate all of our clients needs.

COMMUNICATION

GSD can also provide expertise in fibre optic cabling and structured copper cable networks. All of our engineers are fully trained in cold cure and fibre optic fusion splicing.

Our sales team can provide you with a free survey and estimate, liaising with other suppliers if required and to enforce a framework agreement if you choose to use our full range of services.

We hope that this information is of interest and please do not hesitate to make an appointment to visit our unique show-room facilities to view our extensive range of products.

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- DISTRIBUTION

INFORMATION

WARRANTY INFORMATION:

All Goldcrest products are covered by a 1 year warranty, reflecting the confidence we have in the quality of our products.

The warranty operates on a return to base principle; it is the responsibility of the end user or customer to return any faulty item to our offices once a returns number has been allocated.

Goldcrest will replace or repair any faulty product covered by the warranty, replacement products will be covered by the remaining balance of the original warranty or a minimum period of 3 months, which ever is longer. Repair timescales cannot be guaranteed.

Replacement products will be new or previously repaired products at the discretion of Goldcrest Surveillance Division Ltd—Distribution.

RETURNS:

Goods must be returned in their original packaging and complete with all accessories and manuals.

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Incomplete, damaged and non-resalable returns will be subject to a handling charge of 15% of the order value.

DELIVERY INFORMATION:

Minimum order value—£50.00 plus Vat . An extra charge of £4.95 plus Vat will be applied if under this value.

Standard delivery charge—£12.50 plus Vat

Pallet charge—£20.00 plus Vat per pallet

All UK orders over £500.00 excluding Vat will be delivered free of charge to the mainland UK.

Please contact the office for next day, timed & Saturday deliveries & all deliveries outside the mainland UK (including Channel Isles & Northern Ireland).

PAYMENT:

We accept payment by the following credit/debit cards:



If you would like to open a trade account please contact us to request an application form. Normal trade accounts receive 30 days end of month payment terms. Our full terms and condition are available upon request.

Please note design & specifications are subject to change without notice

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VIGILANT SPEED DOME

Product No: GSD-BV830 (PAL) - 1/4", 18X, High Resolution Colour Camera

FEATURES:

- Quick connect, disconnect & install dome drive
- 480TV Lines of horizontal resolution
- Incorporates the best Sony SuperHAD CCD
- Good sensitivity at 0.07 Lux
- 4 zones of privacy settings
- Accepts multiple protocols PELCO P, PELCO D, Kalatel, VCL, Ernitec & Li-Lin to integrates easily with the existing system controllers
- Built in receiver for twisted pair operation
- AC24V Linelock with vertical phase adjustment
- RS485 data signal for two way communication
- 4 alarm inputs, 1 alarm output
- 216X digital magnification (18X optical, 12X digital zoom)



SPECIFICATION:

<i>Image Sensor</i>	1/4" SONY SuperHAD PAL 752(H) x 582(V)
<i>TV System</i>	2:1 Interlace PAL: V: 50Hz, H:15, 625KHz
<i>Synchronization</i>	Internal/V-Lock
<i>Optical Lens</i>	18X Zoom, f=4.1~73.8mm(F1.4~3.0)
<i>Focusing System</i>	Auto (Sensitivity: Normal, Low)
<i>Focus</i>	Auto/Manual
<i>Digital Zoom</i>	12X(Up to 216X with optical zoom)
<i>Horizontal Resolution</i>	480 TV Lines
<i>AGC</i>	Auto
<i>Minimum Illumination</i>	0.07 Lux (F1.4, 1/3s)
<i>S/N Ratio</i>	More than 50dB
<i>Interface</i>	RS485
<i>White Balance</i>	Auto (3000° K~7500 °K) ATW (2000°K~10000°K) One push WB
<i>Power Supply</i>	AC24V+/-10%/50Hz+/-1Hz
<i>Power Consumption</i>	20W(max)
<i>AE Compensation</i>	Auto, Manual, Backlight Compensation
<i>EV Compensation</i>	-10.5~+10.5dB(15steps)
<i>Day/Night function</i>	None
<i>Preset</i>	64 points
<i>Privacy Zone</i>	4 points available for masking function
<i>Ambient Temperature</i>	30~90%RH/0 °C~50°C
<i>Dimensions</i>	223.7mm(H)*134mm(D), about 5.3 inches
<i>Weight</i>	1343g (not including the housing)

VIGILANT SPEED DOME

VIGILANT SPEED DOME

Product No: GSD-BV850 (PAL)--1/4", 18X, High Resolution Lo-Lux Colour Camera

FEATURES:

- Quick connect, disconnect & install dome drive
- 480TV Lines of horizontal resolution
- Incorporates the best Sony EXview HAD CCD
- Super lo-lux colour sensitivity reach 0.05 lux
- 4 zones of privacy settings
- Accepts multiple protocols PELCO P, PELCO D, Kalatel, VCL, Ernitec & Li-Lin to integrate easily with the existing system controllers
- Built in receiver for twisted pair operation
- AC24V Linelock with vertical phase adjustment
- RS485 data signal for two way communication
- 4 alarm inputs, 1 alarm output
- 216X digital magnification (18X optical, 12X digital zoom)



SPECIFICATION:

<i>Image Sensor</i>	1/4" SONY Exview HAD CCD,752(H)x582(V)
<i>TV System</i>	2:1 Interlace PAL, V:50Hz, H:15, 625KHz
<i>Synchronization</i>	Internal/V-Lock
<i>Optical Lens</i>	18X Zoom, f=4.1~73.8mm(F1.4~3.0)
<i>Focusing System</i>	Auto (Sensitivity: Normal, Low)
<i>Focus</i>	Auto/Manual
<i>Digital Zoom</i>	12X(Up to 216X with optical zoom)
<i>Horizontal Resolution</i>	480 TV Lines
<i>AGC</i>	Auto
<i>Minimum Illumination</i>	0.05 Lux (F1.4, 1/3s)
<i>S/N Ratio</i>	More than 50dB
<i>Interface</i>	RS485
<i>White Balance</i>	Auto (3000 ° K~7500°K) ATW:(2000°K~10000°K) one push WB
<i>Power Supply</i>	AC24V+/-10%/50Hz+/-1Hz
<i>Power Consumption</i>	20W(max)
<i>AE Compensation</i>	Auto, Manual, Backlight Compensation
<i>EV Compensation</i>	-10.5~+10.5dB(15steps)
<i>Day/Night function</i>	None
<i>Preset</i>	64 points
<i>Privacy Zone</i>	4 available for masking function
<i>Ambient Temperature</i>	30~90%RH/0°C~50°C
<i>Dimensions</i>	223.7mm(H)*134mm(D), about 5.3 inches
<i>Weights</i>	1343g (not including the housing)

VIGILANT SPEED DOME

VIGILANT SPEED DOME

Product No: GSD-BV860 (PAL) - 1/4", 18X, High Resolution Lo-Lux Day/Night Camera

FEATURES:

- Quick connect, disconnect & install dome drive
- 480TV Lines of horizontal resolution
- Incorporates the best Sony EXview HAD CCD
- Automatic switchover to day/night mode at the required light level. The day/night mode can be Adjusted in auto or manual settings
- On day time, the sensitivity reach 0.05 lux at 1/3s (slow shutter) & during night time, the sensitivity reaches as low as 0.01 lux
- With built in mechanical IR cut filter to produce the best video performance & great contrast during the day/night transition
- 4 zones of privacy settings
- Accepts multiple protocols PELCO P, PELCO D, Kalatel, VCL, Ernitec & Li-Lin to integrate easily with the existing system controllers
- Built in receiver for twisted pair operation
- AC24V Linelock with vertical phase adjustment
- RS485 data signal for two way communication
- 4 alarm inputs, 1 alarm output
- 216X digital magnification (18X optical, 12X digital zoom)



SPECIFICATION:

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Image Sensor	1/4" SONY Exview CCD, 752(H) x 582 (V)
TV System	2:1 Interlace PAL, V: 50Hz,H: 15,625KHz
Synchronization	Internal/V-Lock
Optical Lens	18X Zoom=4.1~73.8mm(F1.4~3.0)
Focusing System	Auto (Sensitivity: Normal, Low)
Focus	Auto/Manual
Digital Zoom	12X(Up to 216X with optical zoom)
Horizontal Resolution	480 TV Lines
AGC	Auto
Minimum Illumination	0.05 Lux (F1.4, 1/3s);0.01Lux(1/3 sec.)
S/N Ratio	More than 50dB
Interface	RS485
White Balance	Auto (3000 ° K~7500°K) ATW (2000°K~10000°K) One push WB
Power Supply	AC24V+/-10%/50Hz+/-1Hz
Power Consumption	20W(max)
AE Compensation	Auto, Manual, Backlight Compensation
EV Compensation	-10.5~+10.5dB(15steps)
Day/Night function	Yes with infrared IR Cut (auto/manual)
Preset	64 points
Alarm Function	4 Inputs/1 Output
Ambient Temperature	30~90%RH/0°C~50°C
Dimensions	223.7mm(H)*134mm(D), about 5.3 inches
Weights	1343g (not including the housing)
Emission/Safety/Standard	CE

VIGILANT SPEED DOME

VIGILANT SPEED DOME

Product No: GSD-BV880 (PAL) - 1/6", 25X High Resolution , Day/Night With Image Stabiliser

FEATURES:

- Quick connect, disconnect & install dome drive
- 480TV Lines of horizontal resolution
- Incorporates the best Sony Super HAD CCD
- Automatic switchover to day/night mode at the required light level. The day/night mode can be Adjusted in auto or manual settings
- On day time, the sensitivity reach 0.2 lux at 1/3s & during night time, the sensitivity reaches as low as 0.08 lux
- With built in mechanical IR cut filter to produce the best video performance & great contrast during the day/night transition
- 4 zones of privacy settings
- Accepts multiple protocols PELCO P, PELCO D, Kalatel, VCL, Ernitec & Li-Lin to integrate easily with the existing system controllers
- Built in receiver for twisted pair operation
- AC24V Linelock with vertical phase adjustment
- RS485 data signal for two way communication
- 4 alarm inputs, 1 alarm output
- 300X digital magnification (25X optical, 12X digital zoom)



SPECIFICATION:

TV System	2:1 Interlace PAL, V: 50Hz,H: 15,625KHz	8
Synchronization	Internal/V-Lock	
Optical Lens	25X Zoom= f2.4~60mm(F1.6~2.7)	
Focusing System	Auto (Sensitivity: Normal, Low)	
Focus	Auto/Manual	
Digital Zoom	12X(Up to 300X with optical zoom)	
Horizontal Resolution	480 TV Lines	
AGC	Auto	
Minimum Illumination	0.2 Lux (F1.4,1/3s);0.08Lux(1/3 sec.)	
S/N Ratio	More than 49dB	
Interface	RS485	
White Balance	Auto (3000 ° K~7500°K) ATW (2000°K~10000°K) One push WB	
Power Supply	AC24V+/-10%/50Hz+/-1Hz	
Power Consumption	20W(max)	
AE Compensation	Auto, Manual, Backlight Compensation	
EV Compensation	-10.5~+10.5dB(15steps)	
Day/Night function	Yes with infrared IR-cut (auto/manual)	
Ambient Temperature	30~90%RH/0°C~+50°C	
Dimensions	223.7mm(H)*134mm(D), about 5.3 inches	
Weight	1343g not including the housing	
Emission/Safety/Standard	CE	

SPEED DOME ACCESSORIES

SPEED DOME ACCESSORIES

HOUSINGS

Product No: GSD-HS802

- Ceiling mount
- For indoor use

<i>Bubble</i>	Clear polycarbonate
<i>Upper Housing Colour</i>	Cool Grey
<i>Upper Housing Construction</i>	Aluminium
<i>NW</i>	1.4kgs
<i>Dimension</i>	160 x 235mm (H) x 230mm (D)



Product No: GSD-SDHC908

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- Ceiling mount
- For indoor use

<i>Bubble</i>	Smoked, tempered proof acrylic
<i>Upper Housing Colour</i>	Black
<i>Upper Housing Construction</i>	Aluminium
<i>NW</i>	1.4kgs
<i>Dimension</i>	200 x 290mm (H) x 265mm (D)

Product No: GSD-SDHI906

- For outdoor use with a choice of pendant bracket—GSD-SDM8002 or wall mount bracket—GSD-SDM8001

<i>Bubble</i>	Smoked, tempered proof acrylic
<i>Upper Housing Colour</i>	Die-Cast aluminium
<i>Upper Housing Colour</i>	Cool Grey
<i>IP Rated</i>	IP66
<i>NW</i>	2.7kgs
<i>Dimension</i>	202 x 260mm (H) x 275mm (D)



SPEED DOME ACCESSORIES

SPEED DOME ACCESSORIES

HOUSINGS

Product No: GSD-SDH0905

- Housing with sunshield
- For outdoor use with a choice of pendant bracket—GSD-SDM8002 or wall mount bracket—GSD-SDM8001

<i>Bubble</i>	Smoked, tempered proof acrylic
<i>Upper Housing Colour</i>	Die-Cast aluminium
<i>Upper Housing Colour</i>	Cool Grey
<i>Dimension</i>	310 x 265mm (H) x 164mm (D)
<i>Accessory</i>	Heater & sunshield

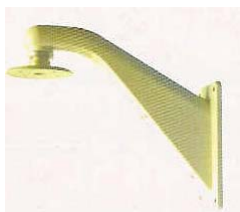


BRACKETS

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Product No: GSD-SDM8001

- Wall mount



<i>Material</i>	Aluminium die-casting
<i>Dimension</i>	305 (W) x 310mm (H) x 80mm
<i>Loading Capacity</i>	30kg
<i>NW</i>	2kg

Product No: GSD-SDM8002

- Pendant mount

<i>Material</i>	Aluminium die-casting
<i>Dimension</i>	300 x 125mm
<i>Loading Capacity</i>	20kg
<i>NW</i>	0.85kg



KEYBOARDS

KEYBOARDS

Product No: GSD-KPT800

Product No: GSD-KPT900



- Joystick control for PTZ functions
- Preset position & pattern control
- Auxiliary operation
- Auto/random/frame scanning



CONTROL PANEL SPECIFICATIONS:

	<i>GSD-KPT800</i>	<i>GSD-KPT900</i>
<i>Input Voltage</i>	12VAC or 12VDC	
<i>Power Consumption</i>	2.5W	
<i>Keyboard Connector</i>	RJ45/8 pin/modular (female) & DSUB9/9 pin (female)	
<i>Keyboard Interface</i>	RS485 & RS232	
<i>Protocol</i>	Pelco P	
<i>Baud Rate</i>	4800	
<i>Parameter</i>	8 data bits, no parity, 1 stop bit	
<i>Keypad</i>	Mechanical	
<i>Joystick</i>	2 axis, vector solving, return to centre head red LED, 7 segment, 3 cells	3 axis, vector solving, return to centre head red LED, 7 segment, 3 cells
<i>Dimensions</i>	245mm (L) x 175mm (W) x 58.6mm (H)	245mm (L) x 175mm (W) x 55mm (H)
<i>Unit Weight</i>	1.1kg	1.2kg
<i>Temperature</i>	-10°C to 50°C	
<i>Storage Temperature</i>	-20°C to 60°C	
<i>Humidity</i>	10% ~ 90% non-condensing	
<i>Cable</i>	25ft (7.6m) RJ45 data cable	

<i>Reference No</i>	<i>Description</i>	<i>Reference No</i>	<i>Description</i>
1	LED Display	8	Camera Selection Key
2	Shift Key	9	Keypad (Nos 1 to 0)
3	Shift LED	10	Near Key
4	Preset Key	11	Far Key
5	Pattern Key	12	Open Key
6	Joystick	13	Close Key
7	Clear Key	14	Zoom In
		15	Zoom Out

HIGH SPEED DOMES

HIGH SPEED DOMES

Product No: GSD-SN686PT/18

Product No: GSD-SNWP686PT/18

18X High Speed Colour Dome Camera

Outdoor 18X High Speed Colour Dome Camera

FEATURES:

- 1/4" SONY IT CCD, 480TVLines, 1.0 Lux
- Built in 18X zoom lens, f= 4.1—73.8mm
- Built in RS-485 receiver driver, multiple protocols selectable by switch
- S/N more than 48dB, BLC
- Integrate high speed pan/tilt, pan speed 0-300° /S, tilt speed, 0-120° /S, continuously rotate 360°
- 128 preset , 180° auto tilt
- 4 alarm input and 1 relay output



- Power supply AC 24V
- Available for various mounting (indoor ceiling, indoor embedded)

FEATURES:

- 1/4" SONY IT CCD, 480TVLines, 0.7 Lux
- Built in 18X zoom lens, f= 4.1—73.8mm
- Built in RS-485 receiver driver, multiple protocols selectable by switch
- S/N more than 48dB, BLC
- Integrate high speed pan/tilt, pan speed 0-300° /S, tilt speed, 0-120° /S, continuously rotate 360°
- 128 preset , 180° auto tilt
- 4 alarm input and 1 relay output
- Power supply AC 24V
- Double protect housing
- Auto temperature control function
- Available for various mounting (outdoor ceiling mounting, outdoor wall mounted)



SPECIFICATION:

	<i>GSD-SN686PT/18 & GSD-SNWP686PT/18</i>
<i>Camera</i>	
<i>Signal System</i>	PAL Colour System
<i>Image Sensor</i>	1/4" IT CCD (SONY)
<i>Active Pixel</i>	752 (H) x 582 (V)
<i>Horizontal Resolution</i>	480 lines
<i>Focus Length</i>	4.1mm ~ 73.8mm
<i>Zoom Ratio</i>	18 x optical zoom with auto focus (12 x digital zoom)
<i>Function</i>	
<i>Panning Angle</i>	360° continuous rotation
<i>Tilt Angle</i>	0° ~ 90°
<i>Preset</i>	128 positions
<i>Pattern</i>	1 pattern (record user control up to 40 sec)
<i>Tour</i>	6 guard tours
<i>Speed</i>	Manual control speed 0° ~ 300° sec (pan); 0° ~ 120° sec (tilt)
<i>Alarm</i>	4 input, 1 relay output
<i>Power</i>	Nominal 24 VAC, 1.5A maximum

HIGH SPEED DOMES

HIGH SPEED DOMES

Product No: GSD-SN686PT/18W

Product No: GSD-SNWP686PT/18W

18X Day/Night High Speed Dome Cam-

Outdoor 18X Day/Night High Speed
Dome Camera

FEATURES:

- 1/4" SONY EXview HAD CCD, 480TVLines, 0.01 Lux
- Colour/B/W automatic switchable
- Built in 18X zoom lens, f= 4.1—73.8mm
- Built in RS-485 receiver driver, multiple protocols selectable by switch
- S/N ratio more than 48dB, BLC
- Integrate high speed pan/tilt, pan speed 0-300° /S, tilt speed, 0-120° /S, continuously rotate 360°
 - 128 preset , 180° auto tilt
 - 4 alarm input and 1 relay output
 - Power supply AC 24V
 - Available for various mounting (indoor ceiling, indoor embedded)



FEATURES:

- 1/4" SONY EXview HAD CCD, 480TVLines, 0.01 Lux
- Colour/B/W automatic switchable
- Built in 18X zoom lens, f= 4.1—73.8mm
- Built in RS-485 receiver driver, multiple protocols selectable by switch
- S/N more than 48dB, BLC
- Integrate high speed pan/tilt, pan speed 0-300° /S, tilt speed, 0-120° /S, continuously rotate 360°
- 128 preset , 180° auto tilt
- 4 alarm input and 1 relay output
- Power supply AC 24V
- Available for various mounting (indoor ceiling, indoor embedded)



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SPECIFICATION:

	<i>GSD-SN686PT/18W & GSD-SNWP686PT/18W</i>
<i>Camera</i>	
<i>Signal System</i>	PAL Colour System
<i>Image Sensor</i>	1/4" ExView HAD Colour CCD (SONY)
<i>Active Pixel</i>	752 (H) x 582 (V)
<i>Horizontal Resolution</i>	480 lines
<i>Focus Length</i>	4.1mm ~ 73.8mm
<i>Zoom Ratio</i>	18 x optical zoom with auto focus (12 x digital zoom)
<i>Function</i>	
<i>Panning Angle</i>	360° continuous rotation
<i>Tilt Angle</i>	0° ~ 90°
<i>Preset</i>	128 positions
<i>Pattern</i>	1 pattern (record user control up to 40 sec)
<i>Tour</i>	6 guard tours
<i>Speed</i>	Manual control speed 0° ~ 300° sec (pan); 0° ~ 120° sec (tilt)
<i>Alarm</i>	4 input, 1 relay output
<i>Power</i>	Nominal 24 VAC, 1.5A maximum

HIGH SPEED DOMES

HIGH SPEED DOMES

Product No: GSD-SN686PT/23W

Product No: GSD-SNWP686PT/23W

23X Day/Night High Speed Dome Cam-

Outdoor 23X Day/Night High Speed
Dome Camera

FEATURES:

- 1/4" SONY EXview HAD CCD, 480TVLines, 0.01 Lux
- Colour/B/W automatic switchable
- Built in 23X zoom lens, f= 3.6—82.8mm
- Built in RS-485 receiver driver, multiple protocols selectable by switch
- S/N more than 48dB, BLC
- Integrate high speed pan/tilt, pan speed 0-300° /S, tilt speed, 0-120° /S, continuously rotate 360°
 - 128 preset , 180° auto tilt
 - 4 alarm input and 1 relay output
 - Power supply AC 24V
 - Available for various mounting (indoor ceiling, indoor embedded)



FEATURES:

- Built in RS-485 receiver driver, multiple protocols selectable by switch
- S/N more than 48dB, BLC
- Integrate high speed pan/tilt, pan speed 0-300° /S, tilt speed, 0-120° /S, continuously rotate 360°
- 128 preset , 180° auto tilt
- 4 alarm input and 1 relay output
- Power supply AC 24V
- Double protect housing
- Auto temperature control function
- Available for various mounting (outdoor ceiling mounting, outdoor wall mounting, outdoor corner mounting outdoor side mounting)



SPECIFICATION:

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	<i>GSD-SN686PT/18W & GSD-SNWP686PT/18W</i>
<i>Camera</i>	
<i>Signal System</i>	PAL Colour System
<i>Image Sensor</i>	1/4" ExView HAD Colour CCD (SONY)
<i>Active Pixel</i>	752 (H) x 582 (V)
<i>Horizontal Resolution</i>	480 lines
<i>Focus Length</i>	3.6mm ~ 82.8mm
<i>Zoom Ratio</i>	23 x optical zoom with auto focus (12 x digital zoom)
<i>Function</i>	
<i>Panning Angle</i>	360° continuous rotation
<i>Tilt Angle</i>	0° ~ 90°
<i>Preset</i>	128 positions
<i>Pattern</i>	1 pattern (record user control up to 40 sec)
<i>Tour</i>	6 guard tours
<i>Speed</i>	Manual control speed 0° ~ 300° sec (pan); 0° ~ 120° sec (tilt)
<i>Alarm</i>	4 input, 1 relay output
<i>Power</i>	Nominal 24 VAC, 1.5A maximum

HIGH SPEED DOME - ACCESSORIES

HIGH SPEED DOME - ACCESSORIES

Product No: GSD-SNBK601— Bracket For Pole Mounting



Product No: GSD-SNBK602—Bracket For Corner Mounting



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Product No: GSD-SNBK603—Indoor Embedded Mounting Bracket



Product No: GSD-SNCC2— Speed Dome Controller



- It is intelligent, multifunction, remote control panel. The keyboard features a pan/tilt joystick, which can be set for variable or fixed speed operation
- The keyboard also offers push button control for camera & monitor selection, zoom, iris, focus, auto pan, receiver preset position entry alarm knowledge
- The keyboard allows to operate 1 to 32 speed dome cameras or receivers via
- RS-485. The communication distance between controller & receiver is up to 1.2km

VANDAL PROOF DOME CAMERA

VANDAL PROOF DOME CAMERA

Product No: GSD-CDV6480P (PAL)

FEATURES:

- 1/4" high resolution CCD
- All in one camera with built in integrated varifocal lens
- Anti-fire material
- Polycarbonate dome cover
- Resist 1000Kg of external force
- Waterproof IP66 rated
- AC24V/DC12V



SPECIFICATION:

<i>Model</i>	<i>GSD-CDV6480P</i>
<i>Image Area</i>	3.7mm x 2.7mm
<i>Image Sensor</i>	1/4" SONY SuperHAD CCD
<i>Scanning System</i>	2:1 Interlace PAL: V50Hz, H: 15.625KH
<i>Resolution</i>	480 TV Lines
<i>Synchronisation</i>	AC Power Linelock/DC Power Internal
<i>Video Output</i>	1Vp-p BNC (75 ohm)
<i>Linelock V-phase</i>	External VR with 0-300 deg
<i>r Compensation</i>	0.45 fixed
<i>AGC</i>	Turbo (24dB)/ Normal (18dB) switchable
<i>Minimum Illumination</i>	0.37 Lux (F1.4, AGC ON, 10 IRE)
<i>S/N Ratio</i>	More Than 50dB (AGC OFF)
<i>Backlight Compensation</i>	On/Off switchable (centre weight)
<i>White Balance</i>	Auto Trace (2200-10000K)
<i>Aperture</i>	Horizontal & Vertical (3D)
<i>Waterproof</i>	IP66 Rated
<i>Dome Cover</i>	Smoke or Clear Dome
<i>Mechanical Parts</i>	Aluminium Diecasting Material Polycarbonate 3mm thickness smoke cover Endures 1000 Kg. Of Force
<i>Built In Lens</i>	Built in Lens 2.8-5.8mm, F1.4-1.8 Varifocal DC Iris Lens
<i>View angle</i>	Wide: Diagonal/97°, Horizontal/77°, Vertical/57°
<i>Power Supply</i>	AC24V/DC12V switching power
<i>Power Consumption</i>	5W
<i>Dimension</i>	160mm (L) x 90mm (H)
<i>Ambient Temperature</i>	30%-90% RH/-10C-50C
<i>Weight</i>	900g.

VANDAL PROOF DOME CAMERA

VANDAL PROOF DOME CAMERA

FEATURES:

- 1/3" full range Sony superHAD & Sony EXview HAD CCD
- Heavy-duty, weatherproof & vandal resistant housing
- Burglar-proof safety screw provided
- Day/night version with IR extend
- Lo-Lux true colour performance
- AC24V with line lock
- Fixed lens or built in varifocal DC iris lens



SPECIFICATION:

Model	MONOCHROME	COLOUR
Pick-up Device	1/3" Interline transfer SONY CCD	
Picture Elements (High)	CCIR: 500 x 582	PAL: 500 x 582 (Lo) 752 x 582 (Hi)
H. Sync. Frequency	PAL/CCIR: 15.625 KHz	
V. Sync. Frequency	PAL/CCIR: 50Hz	
Synchronization	DC: Internal/AC: Line lock (option)	
Horizontal Resolution (TV Lines)	420	380/480 (hi-res)
Back Light Compensation	Auto	ON/OFF Selectable
Electronic Shutter	Auto Range: 1/50(1/60)~1/100,000 sec.	ON/OFF Selectable Range: 1/50 (1/60)~ 1/100,000 sec.
Gain Control	Auto	-----
Lens	Vari-focal auto iris 3.5-8.5mm lens, 3.6mm (2.9, 6, 8, 12mm) option	
Gamma Correction	0.45	
S/N Ratio	More than 48dB	
Video Output	1Vp-p, 75Ohms	
Dimension	Ø37 x H 93.7	
Power Supply	12VDC or 24VAC, isolated switching power AC24V/DC12V	
Power Consumption	110mA, at DC power	165/185mA (hi-res.) at DC power
Weight g	740	
Storage Temperature	-30° C~+60°C	
Operating Temperature	-10°C~45°C	

VANDAL PROOF DOME CAMERA

VANDAL PROOF DOME CAMERA



Model No	CCD Format	Sensitivity	Horizontal Resolution	Lens Type	Power Supply	Sync
GSD-CDV3F480	1/3"SONY	0.1 Lux	480 TV, Col-our	Fixed Lens	DC12V	Internal
GSD-CDV3F480EX	1/3" SONY EXview	0.05 Lux	480TV, Colour	Fixed Lens	DC12V	Internal
GSD-CDV3F480IR/6	1/3" SONY	0 Lux	480 TV, Day Night	6.0mm	DC12V	Internal
GSD-CDV3VD480	1/3" SONY	0.1 Lux	480 TV, Col-our	3.5-8.5 DC Iris	DC12v	Internal
GSD-CDV3VD480EX	1/3" SONY EX view	0.05 Lux	480 TV, Col-our	3.5-8.5 Iris	DC12V	Internal
GSD-CDV3VD480/DN	1/3" SONY	0.1 Lux	480 TV, Day night	3.5-8.5 Iris	DC12V	Internal
GSD-CDV3VD480/24VL	1/3" SONY	0.1 Lux	480 TV, Col-our	3.5-8.5 Iris	AC24V	Linelock
GSD-CDV3VD480EXI24VL	1/3" SONY EXview	0.05 Lux	480 TV, Col-our	3.5-8.5 Iris	AC24V	Linelock
GSD-CDV3F380	1/3" SONY	0.5 Lux	380 TV, Col-our	Fixed Lens	DC12V	Internal
GSD-CDV3F380IR/6	1/3" SONY	0 Lux	380 TV, Day Night	6.0mm	DC12V	Internal
GSD-CDV3VD380/DN	1/3" SONY	0.5 Lux	380 TV, Day Night	3.5-8.5 DC Iris	DC12V	Internal
GSD-	1/3" SONY	0.5 Lux	3.5-8.5 DC Iris	3.5-8.5 DC Iris	DC12V	Internal
GSD-CDV3VD380/24VL	1/3" SONY	0.5 Lux	380 TV, Col-our	3.5-8.5 DC Iris	AC24V	Linelock
GSD-CDV3F420	1/3" SONY	0.01 Lux	420 TV, Monochrome	Fixed Lens	DC12V	Internal
GSD-CDV3VD420	1/3" SONY	0.01 Lux	420 TV, Monochrome	3.5-8.5 DC Iris	DC12V	Internal
GSD-CDV3VD420/24VL	1/3" SONY	0.01 Lux	420 TV, Monochrome	3.5-8.5 DC Iris	AC24V	Linelock

CEILING DOME CAMERA

CEILING DOME CAMERA

Product No: GSD-DC320SG (CCIR)

Product No: GSD-DC866SP (PAL)

Product No: GSD-DC868SH (PAL)



SPECIFICATION:

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Model	GSD-DC320SG	GSD-DC866SP	GSD-DC868SH
Image Sensor	1/3" B/W CCD	1/3" Colour CCD	
Effective Pixels	500(H) x 582(V)		752 (H) x 582 (V)
Scanning System	2:1 Interlace V: 50Hz, 15.625KHz 2:1 Interlace V: 60Hz, 15.750KHz		
Synchronisation	Internal		
Video Output	1Vp-p, 75 ohms unbalanced		
Lens Mount	Board Lens 3.6mm (standard), 2.5mm, 4.0mm, 6.0mm, 8.0mm, 12mm (optional)		
Resolution	400 TV Lines	420 TV Lines	480 TV Lines
Gamma Correction	0.45		
Minimum Illumination	0.1 Lux	1.0 Lux	1.5 Lux
S/N Ratio	More Than 48dB		
Shutter Control	AES: 1/50 (60) -1/100,000 sec.		
Backlight Compensation	Automatic, centre focus		
Gain Control	Average AGC		
White Balance	-n/a-	Auto: 2500K-9500K	
Power Requirement	12VDC		
Dimension	H: 90mm x Ø 105mm		
Weight	200g.		

CEILING DOME CAMERA

CEILING DOME CAMERA

Product No: GSD-DC8635SP (PAL)

Product No: GSD-DC8835SH (PAL)



SPECIFICATION:

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Model	GSD-DC8635SP	GSD-DC8835SH
Image Sensor	1/3" Colour CCD	
Effective Pixel	500 (H) x 582 (V)	752 (H) x 582 (V)
Resolution	380 TV Lines	480 TV Lines
Minimum Illumination	1.0 Lux	1.5 Lux
White Balance	Auto: 2500°K-9500°K	
Focal Length	3.5-8mm	
F. No	F1.4-360	
Angle Field of View	97°-42°	
Back Focal Length	8.4-14.2mm	
Effective Front Lens	Ø17.5mm	
Effective Rear Lens	Ø8.8mm	
Mount	CS Mount	
Iris	DC Type	
Dimension	H: 90mm x Ø 105mm	
Weight	200g.	

WALL CEILING DOME CAMERA

WALL CEILING DOME CAMERA

Product No: GSD-DC1480P/24VL (PAL)

Product No: GSD-DC1480P/12 (PAL)

FEATURES:

- Compact & light weight design
- Integrated 4-9mm varifocal direct drive lens allows for easy installation & adjustments
- Hi-speed F1.6 iris provides excellent low light performance
- DSP controls for back light compensation, white balance & gain control
- Manual pan/tilt mechanism
- Can be installed on a wall or ceiling
- Video cable with BNC included



SPECIFICATION:

Model	GSD-DC1480P/24VL	GSD-DC1480P/12
Scanning Element	2:1 Interlace/H: 15.625KHz, V: 50Hz	
Image Picture Element	1/3" High Sensitivity SONY CCD	
Effective Picture Element	752 (H) x 582 (V)	
Resolution	480 Horizontal TV Lines	
Minimum Illumination	0.1 Lux F1.2	
S/N Ratio	48Db (AGC OFF)	
Bubble	Tint Coloured; Optical perfect Max. 1F loss	
Backlight Compensation	On (Central Area)/ Off Switch	
AGC	On/Off Switch	
Sync System	Linelock	Internal
Gamma Compensation	0.45	
Video Output	1.0Vpp, 75ohm Unbalanced	
White Balance	Automatic White Balance	
ATW Range	2700° K~9100° K	
Power Range	AC24V/DC12V±10%	DC12V±10%
Power Consumption	2.8W (Max)	
Operation Temperature	-5°C to ~ 45°C Less than 80% R.H.	
Overall Camera Dimensions	Height 80mm (3.15") Diameter 100mm (3.94")	
Weights	180g (6.35 ounces) Net.	

DAY/NIGHT MINI DOME

DAY/NIGHT MINI DOME

GSD-CF630IR—420 TV Line 15M

GSD-CF660IR—480 TV Line 15M

FEATURES

- Digital Signal Processing
- Horizontal Resolution of 420/480 TV Lines
- Built in standard 4, 6, 8mm, 12mm (option) lens
- With choice of 18 units
- With effective distance of 15-20M, indoor/ outdoor range
- Ideal Camera for all day and night time observation
- Non-condensed glass



SPECIFICATION:

Model	GSD-CF630IR15M / GSD-CF660IR15M
Effective Pixels	512 (H) x 492 (V), 1/3" CCD Image Sensor 753 (H) x 582 (V), 1/3" CCD Image Sensor
Resolution	CF30IR15M: 420 TV Lines CF660IR15M: 480 TV Lines
Minimum Illumination	0.5 Lux F2.0, day mode, 0 Lux night mode
S/N Ratio	More than 48dB (AGC Off)
Electronic Shutter	1/60 (50) to 1/100,000 sec
Gamma	0.45
White Balance	Auto White Balance
Video Output	1.0 Vp-p composite, 75 ohm
Lens	Fixed Lens 4mm (standard) 6, 8mm, 12mm (option)
BLC	Auto
IR LED Unit	18 Pieces
IR Distance	15-20 Metres
IR Spectrum	850nm
Storage Temperature	-30°C to + 60°C
Operating Temperature	-10°C to + 50°C
Power Source	DC12V ± 10%
Power Consumption	90mA (IR Off), 270mA (IR ON)
Dimension	95 ø x 47.1 (D) x 75.8 (H) (mm)
Weight	500g.

25X WIDE DYNAMIC ZOOM MODULE

25X WIDE DYNAMIC ZOOM MODULE

Product No: GSD-XV25WD (PAL)

FEATURES:

- 1/4" Sony Exview CCD
- Strong BackLight Mode
- Linelock Compatibility
- Focal Length: 3.8 ~ 95mm
- Wide Dynamic
- 25X Optical Zoom
- Day/night function with IR Cut Filter



SPECIFICATION:

<i>Kit Source:</i>	<i>CCD Sensor</i>	SONY ICX449AK
<i>Image Size</i>		1/4 Format Interline CCD Sensor, Ye, Cy, Mg, G, colour complementary mosaic filter
<i>Pixel Element</i>		752H x 582V
<i>Scanning Frequency</i>		PAL 2:1 Interlace; H: 15625Hz, V: 50Hz
<i>Video Output</i>		1.0Vpp Composite Video Output/75 Ohm BNC
<i>Operation Temperature</i>		-10°C ~ +50°C
<i>Storage Temperature</i>		-20°C ~ +60°C
<i>Power Source</i>		DC12V +/- 10%
<i>Power Consumption</i>		Max. 5.2W
<i>Focal Length</i>		3.8 ~ 95mm
<i>Zoom</i>		X25 Optical
<i>IRIS Aperture Ratio</i>		W: F1.6 ~ 360 T: F3.7 ~ 360
<i>Angle of View</i>	<i>Horizontal</i> <i>Vertical</i>	54 (wide) ~ 2.3 (Tele) degree 40 (wide) ~ 1.7 (Tele) degree
<i>Min. Object Distance</i>		1M
<i>Mounting Hole</i>		Outline Drawing
<i>External Dimension</i>		60mm (W) x 67mm (H) x 97mm (D)
<i>Weight</i>		TBD

25X WIDE DYNAMIC ZOOM MODULE

25X WIDE DYNAMIC ZOOM MODULE

PRODUCT NO: GSD-XV25WD

FUNCTIONAL SPECIFICATION

<i>Exposure Control</i>	Auto, Auto IRIS, AES, Manual, WD
<i>Electronics Shutter</i>	1/500 ~ 1/100000
<i>MES</i>	1/50 (1/60) ~ 1/200000
<i>Auto Slow Shutter</i>	2 Field ~ 510 Field
<i>Manual Slow Shutter</i>	2 Field ~ 80 Field
<i>BLC</i>	Centre 1, Centre 2, Door Way 1, Door Way 2, Up Half, Low Half, Super BLC
<i>White Balance</i>	Auto, Manual, Push
<i>Auto White Balance Range</i>	2800K ~ 8000K
<i>Manual White Balance Range</i>	2000K ~ 20000K
<i>Push White Balance Range</i>	2000K ~ 20000K
<i>Gamma</i>	0.45, 0.8, 1
<i>Chroma Separate Level</i>	9 Level
<i>Aperture Level</i>	9 Level
<i>Electronic Zoom</i>	2.6x
<i>Day & Night</i>	Auto, IR Pass, IR Cut
<i>SYNC System</i>	INT/Line Lock
<i>Line Lock Phase Adjust Range</i>	0° ~ 270°
<i>Line Lock Frequency Range</i>	50 +/- 1Hz

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VIDEO SPECIFICATION

<i>Resolution</i>	480 TV Lines
<i>Minimum Illumination – Standard Mode</i>	0.8 Lux @ F=1.6 (50IRE Video Output)
<i>Minimum Illumination – Night Time Mode</i>	0.5 Lux @ F=1.6 (50IRE Video Output)
<i>100 IRE S/N Ratio</i>	50dB
<i>50 IRE S/N Ratio</i>	38dB
<i>AGC Max, Gain</i>	32dB
<i>AGC Preset, Gain</i>	24dB
<i>AGC Dynamic Range</i>	40 IRE ~ 100 IRE
<i>White Clip</i>	115 IRE
<i>Pedestal Level</i>	7.5 IRE +/- 2.5 IRE
<i>SYNC Level</i>	40 IRE +/- 2 IRE
<i>Burst Level</i>	40 IRE
<i>H Aperture</i>	10 IRE (r 0.45 100 IRE Video Output)
<i>V Aperture</i>	10 IRE (r 0.45 100 IRE Video Output)
<i>Gamma Compensation</i>	0.45
<i>Gamma Cross Point</i>	55 IRE ~ 65 IRE
<i>Gamma Block Level</i>	10 IRE ~ 15 IRE
<i>Auto Electronics Shutter Level</i>	100 IRE ~ 110 IRE
<i>Sub Carry-Phase</i>	+/- 40 HZ

25X WIDE DYNAMIC ZOOM MODULE

25X WIDE DYNAMIC ZOOM MODULE

PRODUCT NO: GSD-XV25WD

FUNCTION CONTROL (FUNCTION SELECTABLE)

<i>Electronics Exposure</i>	Auto, Auto IRIS, AES, Manual, WD Mode Control
<i>Menu Electronics Shutter</i>	1/50 (1/60) ~ 1/200000 Selectable Control
<i>Flickerless</i>	1/120 (1/100) Sec
<i>Lens Level Control</i>	Auto, Manual Mode Control
<i>BLC</i>	Centre 1, Centre 2, Door Way 1, Door Way 2, Up Half, Low Half, Super BLC Mode Control
<i>SYNC System</i>	INT/LL Mode Control
<i>White Balance Control</i>	Auto, Manual, Push Mode Control
<i>Aperture Control</i>	9 Level Selectable Control
<i>Gamma</i>	9 Level Selectable Control
<i>Chroma</i>	9 Level Selectable Control
<i>Gain Control</i>	0 dB ~ 34 dB Selectable Control
<i>Image Mirror</i>	On/Off
<i>Image Upside Down</i>	On/Off
<i>Image Capture</i>	On/Off
<i>Y Inverse</i>	On/Off
<i>Optical Zoom</i>	0 ~ 25x
<i>Electronic Zoom</i>	2.6x
<i>Day & Night</i>	Auto, IR Pass, IR Cut
<i>CK Level</i>	High, Low
<i>Burst</i>	Auto, On
<i>Day & Night Time</i>	5 Sec, 10 Sec, 20 Sec, 30 Sec, 60 Sec
<i>AGC Boost</i>	On/Off

CONNECTER PIN ASSIGNMENT

<i>Pin Number</i>	Description
1	DC 9 ~ 12V input
2	GND
3	Video Output
4	Y Output
5	C Output
6	GND
7	SI
8	SO
9	Pulse input for Line Lock
10	External Input for Day/Night

TRAFFIC SYSTEM DAY/NIGHT CAMERA

TRAFFIC SYSTEM DAY/NIGHT CAMERA

Product No: GSD-CCDN722PEXR (PAL)

Product No: GSD-CCDN723PEXR (PAL)

Traffic Monitoring Day/Night Camera with Mechanical IR Moving Filter & RS485 Serial Interface for System Control

FEATURES:

- Using SONY EXview HAD CCD to capture the best picture quality in daylight & night time
- Built in infrared cut filter to eliminate colour saturation for a continuous 24 hours shooting with the presence of infrared illumination
- High resolution of 480 TV Lines in colour condition & 580 TV Lines in monochrome conditions
- RJ45 digital output to offer multi remote system control capability with Pelco P, Pelco D & Ernitec protocols
- OSD function for setting camera parameters at a remote distance
- With a signal to noise ratio of more than 50dB to reduce smear & give accurate colour reproduction



SPECIFICATION:

	<i>GSD-CCDN722PEXR</i>	<i>GSD-CCDN723PEXR</i>
<i>Image Area</i>	6.4mm x 4.9mm	4.9mm x 3.7mm
<i>Image Sensor</i>	1/2" SONY Exview HAD CCD	1/3" SONY Exview HAD CCD
<i>TV System</i>	2:1 Interlace PAL; V: 50Hz, H: 15,625KHz	
<i>Synchronisation</i>	Internal/Linelock (auto switchable)	
<i>Linelock V-phase</i>	External VR with 0-300 degree	
<i>Video Output</i>	RJ45 for remote set-up, 1Vpp composite output, 75 ohm	
<i>Lens Mount</i>	CS-mount with easy Backfocus adjustment	
<i>Horizontal Resolution</i>	Colour 480TV lines/ B/W 580 lines	
<i>Gamma Compensation</i>	0.45 or 1(optional)	
<i>AGC</i>	Standard (21dB)/Wide (30dB)	
<i>S/N Ratio</i>	More than 50dB	
<i>Shutter Control</i>	Auto 1/50 (1/60) – 100,000 sec & Manual 8 steps	
<i>Backlight Compensation</i>	Off/BLC1/BLC2/BLC3/BLC4	
<i>Iris Control</i>	Video out driver/DC iris driver	
<i>Day-night mode Auto/Manual</i>	Colour-B/W:(1.5Lux)	
<i>Day-night Level</i>	B/W-Colour: Low (4.5Lux)/High (7.5Lux)	
<i>Day-night IR cut removable</i>	Day Night mode: 480/580 TV Lines	
<i>Aperture</i>	Low/Middle/High	
<i>Serial Interface</i>	RS485 (transmit/receive)	
<i>Control Panel</i>	Accessible by any controllers having the protocol Pelco P, Pelco D, Ernitec	
<i>Power Supply</i>	DC12V/AC24V or AC90~260V	
<i>Power Consumption</i>	10W(max.) with AI lens	
<i>Dimensions</i>	66(W) x55 (H) x130 (L) mm	
<i>Weights</i>	500g (max)	

WIDE DYNAMIC COLOUR CAMERA

WIDE DYNAMIC COLOUR CAMERA

Product No: GSD-WDP928 (PAL)

FEATURES:

- Wide Dynamic Range
- Colour & Monochrome mode available
- Colour mode: 480 TV Lines & Monochrome mode: 500 TV Lines
- High resolution picture quality
- Minimum illumination of 0.6 Lux 50IRE video output
- Universal isolated switching power AC100-240V, dual switching power AC24V/DC12V



SPECIFICATION:

Image Size	1/3" CCD Image Sensor
Pixel Element	752 (H) x 582 (V)
Scanning Frequency	2:1 Interlace H: 15750 Hz, V: 60 Hz 2:1 Interlace H: 15625 Hz, V: 50Hz
Resolution	Colour Mode: 480 TV Lines Day Night Mode: 500 TV Lines
Minimum Illumination	0.6 Lux @ F1.2 (50IRE Video Output)
Video Output	1 Vp-p 75 ohms BNC unbalanced
S/N ratio	50dB
AGC Present	30dB
Aperture Correction	Horizontal & Vertical
Gamma Compensation	0.45
Synchronisation	Linelock
Linelock Phase Adjustment	0°C - 270°C
Exposure Control	Auto Detect: Auto electronic shutter/ Video Auto Iris/ DC Auto Iris
AES	1/60-1/100,000 sec. 1/50-1/100,000 sec.
Auto Iris Control	Video Drive/ DC Drive
Wide Dynamic Range	52dB, on/off selectable
BLC	Center Area, on/off switchable
White Balance	Auto White balance 2500K-9500K
Day & Night	Colour Killer Auto Detect by Luminance < Fuzzy 30IRE- 80IRE>
AGC Boost	Entrance AGC Gain to Max. 36dB
Chroma Killer	Fuzzy ON/OFF
Exposure Control	Auto Detect: Auto electronic shutter/ Video Iris
Lens Mount	CS- C Mount
Operation Temperature	-10°C - + 50°C
Storage Temperature	-20°C - + 60°C
Power Input	AC24V/DC12V AC100V-250V
Power Consumption	4.5 W
Dimension mm	(L) 135 x 68 (W) x 57 (H)
Weight	300g

530 TV LINES CAMERA

530 TV LINES CAMERA

Product No: GSD-CL8530 (PAL)

FEATURES:

- Supreme colour camera
- Super high resolution of 530 TV lines
- Sharper colour images with advanced DSP processor
- Low light level at 0.06 Lux F1.4 day light mode
- Wide range of auto tracking white balance
- Dip switch mode—backlight on/off, auto gain control (normal AGC/Super AGC), AES/AI, sync system (internal/linelock)
- Universal power AC90V-260V or low voltage AC24V/DC12V



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Product No: GSD-CLDN8530OX (PAL)

FEATURES:

- Dynamic day/night camera
- Super low-lux high sensitivity day/night camera
- Super high resolution of 530 TV lines in day mode & 600 TV lines at night
- Automatic ICR (IR cut mechanism filter) for excellent video shooting during the day & night
- Accepts infrared illuminator or other IR light source for vivid picture quality
- Privacy masking zone to cover the protected areas
- Wide range of auto tracking white balance. On screen display for easy setting the camera
- Parameters
- Adjustable manual shutter speed
- Universal power AC90V-260V and low voltage AC24V/DC12V

530 TV LINES CAMERA

530 TV LINES CAMERA

SPECIFICATION:

Model	GSD-CL8530P	GSD-CLDN8530XP
Image Area	4.9mm x 3.7mm	
Image Device	1/3" SONY SuperHAD CCD	1/3" SONY Exview HAD CCD
Effective Pixels	752 (H) x 582 (V)	
Scanning System	2:1 Interlace PAL H: 15.625KHz, V: 50Hz	
Video Output	1Vp-p, 75 ohms unbalanced, Y/C	
Synchronisation	AC Power: Internal/Linelock (selectable)	
Linelock Phase	External VR with 0° - 300°	
Resolution	530 TV Lines (Horizontal)	530 TV Lines Day Mode 600 TV Lines Night Mode
Colour/Mono Switchable	Colour	Automatic/Colour/Mono Selectable
IR Cut Filter	-N/A-	Yes
AGC	On (30db)/Off	
Minimum Illumination	0.06 Lux (F1.4, 3200°K); 10IRE Day Mode	0.05 Lux (F1.4, 3200°K); 10IRE Day Mode 0.005 Lux (F1.4, 3200°K); 10IRE Night Mode
Signal to Noise Ratio	More Than 50db	
Backlight Compensation	On (centre window)/OFF	OFF/BLC1/BLC2/BLC3/BLC4/ User
White Balance	Auto (2600°K-10000°K)	ATW1 (2600°K-6000°K), ATW2 (2600°K-10000°K)
Shutter Control	Manual AES/AI	Auto 1/50 (60) – 1/100,000 sec/manual 8 steps 1/50, 1/120, 1/250, 1/500, 1/1K, 1/2K, 1/4K, 1/10K
Iris Control	Video Out/DC Iris Driver Separate	
Gamma	0.45	0.45/1 selectable
Mirror	Normal	On/Off
Flicker	Off	On/Off
Aperture Correction	On	High/Mid/Low selectable
Privacy Zone	-N/A-	8 Blocks
Camera ID	-N/A-	Yes
OSD (On Screen Display)	-N/A-	Yes
Lens Mount	CS Mount with Easy Backfocus	
Power Supply	AC24V/DC12V, 90V-260V AC Mains	
Power Consumption	3.5W Max.	
Ambient Temperature	-10°C - +50°C	
Dimensions	50(W) x 62(H) x 126(L) mm	
Weight	500 g. (max)	

SUPER DYNAMIC DAY/NIGHT CAMERA FOR MULTI PURPOSE

SUPER DYNAMIC DAY/NIGHT CAMERA FOR MULTI PURPOSE

Product No: GSD-CADN817PEX (PAL) - Day/Night IR Filter Mechanism Camera

1/3" High resolution Exview with real day/night function camera OLPF removable, switching power supply (DC12V/AC24V or AC90-260V)

FEATURES:

- Full function day & night camera with IR-cut filter mechanism
- Sensitive to infrared light sources
- 1/3" SONY Exview HAD CCD
- High resolution of 480 TV lines in colour mode/580 TV lines in B/W mode
- Day & night mode adjustable at light level
- Adjustable delay time response to IR cut switching from 10 sec .to 20 sec.
- Manual electronic shutter 8 steps for slow exposure
- Selectable window weighted backlight compensation
- Easy back focus adjustment
- Universal power AC90V-260V and isolated switching power AC24V/DC12V



SPECIFICATION:

Image Area	4.9mm x 3.7mm	30
Image Sensor	1/3" SONY Exview HAD CCD	
Pick Up Elements	752(H) x582 (V) pixels	
Scanning System	2:1 Interlace PAL: V: 50Hz H: 15,625KHz	
Synch System	Linelock AC / Internal DC	
Linelock V-phase	External VR setting with 0~300 degree	
Video Output	1Vpp Composite output, YC output	
Resolution	480 TV lines (colour mode)/580 TV lines (B/W mode)	
AGC	Standard (30dB)/Wide (36dB)	
Minimum Illumination	0.03Lux (F1.4, 3200K) Day mode & 0.003Lux (F1.4, 3200K) Night mode	
S/N Ratio	More than 50dB	
Shutter Control	AES 1/60 (50) - 100000 sec/Manual 8 levels 1/50 (60), 1/100, 1/250, 1/500, 1/1k, 1/2k, 1/4k, 1/10k	
Backlight Compensation	Dipswitch: ON/Off selectable (centre weight)	
Iris Control	Video/DC iris	
Aperture	Vertical & Horizontal	
White Balance	2 modes: ATW1 (2500K~6000K); ATW2 (2500K~9500 K)	
Power Supply	AC24V/DC12V, 90V~260V switching	
Power Consumption	12W(max) with AI lens	
Dimensions	50(W) x62 (H) x126 (L) mm	
Weights	500g (max)	

SUPER DYNAMIC CAMERA

SUPER DYNAMIC CAMERA

Product No: GSD-T817P - Colour 480 TV lines 0.1 Lux (PAL)

Product No: GSD-T827P - Colour 350 TV lines 0.1 Lux (PAL)

Product No: GSD-T317C - B/W 620 TV lines 0.01 Lux (CCIR)

Product No: GSD-T327C- B/W 400 TV lines 0.01 Lux (CCIR)

FEATURES:

- Incorporates high sensitivity 1/3" CCD
- Professionally designed PCBs ensures top performance & reliability
- Easy back focus adjustment for C/CS mount
- Multi detect backlight zones
- Wide range linelock phase adjustment
- Digital control aperture for vertical & horizontal
- Universal power AC90V-260V or dual power AC24V/DC12V



SPECIFICATION:

Model	GSD-T-817P	GSD-T-827P	GSD-T-317C	GSD-T-327C
Image Area	4.9mm x 3.7mm			
Image Device	1/3" Interline Transfer SONY Super HAD CCD			
Pickup Elements	PAL: 752(H) x 582 (V) Pixels	PAL: 500(H) x 582 (V) Pixels	CCIR: 752(H) x 582 (V) Pixels	CCIR: 500(H) x 582 (V) Pixels
Scanning System	2:1 interlace PAL V: 50Hz, H: 15.625KHz		2:1 interlace CCIR V: 50Hz, H: 15.625KHz	
Sync System	Internal or linelock for AC mains (switch on/off) Internal for DC			
Video Output	1Vpp Composite Output, 75 ohms, Y/C output	1Vpp Composite Output, 75 ohms		
Lens Mount	CS or C mount with back focus adjustment			
Resolution	480 TV Lines with YC	350 TV Lines	620 TV Lines	400 TV Lines
Gamma Correction	0.45			
Minimum Illumination	0.1 Lux		0.01 Lux	
S/N Ratio	>50dB		>52dB	
Backlight Compensation	Backlight (switch on/off) for AES/Video Lens/DC Lens Mode			
Iris Control	Video Out/ DC Iris for Galvano Lens			
Gain Control	Average AGC (on/off switchable)			
White Balance	Auto (2500° K- 9500° K)		-N/A-	
Colour Cut	On- Monochrome, OFF- Colour (switchable)		-N/A-	
Aperture Correction	3 Dimensional Horizontal & Vertical		Horizontal	
Power Source	Dual Switching Power AC24V & DC12V Isolated Universal Power: 90-260VAC			
Power Consumption	4.5W		4.0W	
Ambient	-10~ + 50°/30~ 90% RH			
Dimensions	109 (L) x 60 (W) x 50 (H) mm			
Weight	600g, (max)			

CLASSIC CAMERA

CLASSIC CAMERA

Product No: GSD-T660P-1/3" Sony Super HAD CCD colour 460 TV lines (PAL)

Product No: GSD-T640P -1/3" Sony Super HAD CCD colour 330 TV lines (PAL)

Product No: GSD-T560C -1/3" Sony Super HAD CCD B/W 580 TV lines (CCIR)

Product No: GSD-T520C-1/3" Sony Super HAD CCD B/W 400 TV lines (CCIR)

FEATURES:

- Designed for general application with 1/3" CCD image format
- Linelock function with wide vertical adjustment phase
- Automatic electronic iris
- Contour edge correction
- Good performance
- High reliability



SPECIFICATION:

Model	GSD-T600P	GSD-T640P	GSD-T560C	GSD-T520C
Image Device	1/3" Interline transfer SONY Super HAD CCD			
Pickup Elements	PAL: 753 (H) x 582 (V) Pixels	PAL: 512(H) x 582 (V) Pixels	CCIR: 753 (H) x 582 (V) Pixels	CCIR: 512 (H) x 582 (V) Pixels
Scanning System	2:1 Interlace PAL V: 50Hz,H: 15.625KHz		2:1 Interlace CCIR V: 50Hz, H: 15.625KHz	
Sync System	DC: Internal, AC: Internal or Linelock V-phase adjustment 0° -270°			
Video Output	1 Vpp Composite Output, 75ohms			
Lens Mount	CS or C Mount			
Resolution	460 TV Lines	330 TV Lines	580 TV Lines	400 TV Lines
Gamma Correction	0.45			
Minimum Illumination	0.4 lux	0.1 lux	0.1 lux	0.01 lux
S/N Ratio	46dB (AGC OFF)			
Iris Control	Video Out/ DC Iris For Galvano Lens			
White Balance	Auto		-----	
Shutter Control	ON/OFF Selectable Switch, Range: 1/50 (1/60) ~ 1/100,000 sec.			
Backlight Compensation	ON/OFF Selectable Switch			
Gain Control	ON/OFF Selectable Switch			
Power Source	AC 24V, DC12V, AC110V, AC240V ± 10%			
Power Consumption	5W (max)			
Ambient	-10~ 50°C /30~ 90%RH			
Dimensions	125(L) x 57 (W) x 52 (H) mm			
Weight	AC: 680g DC: 320g.			

HAWKEYE CAMERA

HAWKEYE CAMERA

Product No: GSD-T360P - 1/3" Colour 480 TV lines (PAL)

Product No: GSD-T350P - 1/3" Colour 330 TV lines (PAL)

Product No: GSD-T340C - 1/3" B/W 600 TV lines (CCIR)

Product No: GSD-T330C- 1/3" B/W 400 TV lines (CCIR)

FEATURES:

- Excellent design with 1/3" image sensor
- Automatic backlight
- Gunlock, vertical linelock phase adjustment (monochrome models only)
- Video & DC iris for Galvano lens
- Horizontal & vertical edge contouring
- High reliability in use
- Dual power AC24V/DC12V or isolated switching power 90V-260VAC (monochrome models only)



SPECIFICATION:

Model	GSD-T-360P	GSD-T350P	GSD-T340C	GSD-T330C
Image Area	4.9mm x 3.7mm			
Image Pick Up Device	1/3" Interline Transfer CCD			
Effective Pixels	PAL: 752 (H) x 582 (V)	PAL: 510 (H) x 582 (V)	CCIR: 753 (H) x 582 (V)	CCIR: 512 (H) x 582 (V)
Scanning System	PAL: 2:1 Interlace, V: 50Hz, H: 15.625KHz		CCIR: 2:1 Interlace, V: 50Hz, H: 15.625KHz	
Sync System	Internal		Linelock & Genlock (ext. sync) dual power AC24V/DC12V Linelock 90V-260V	
Video Output	1 Vpp Composite Output, 75 ohms			
Horizontal Resolution	480 TV Lines	330 TV Lines	600 TV Lines	400 TV Lines
Lens Mount	C/CS Mount			
Gamma Correction	0.45			
Minimum Illumination	0.1 Lux (F1.4, AGC ON, 10IRE)		0.02 Lux (F1.4)	
S/N Ratio	More than 50dB (AGC OFF)		More than 48dB	
Iris Control	Video Out/ DC Iris Lens			
Gain Control	Average AGC			
AES	1/50 (1/60) to 1/ 100,000 sec.			
Backlight Compensation	Built in AES			
White Balance	Auto Trace White Balance		N/A	
Aperture Correction	Horizontal & Vertical Direction		Horizontal	
Power Requirement	DC12V, AC24V, AC110V/230V AC±10%		Isolated Switching Power: AC24V/ DC 12V Universal Power: 90V-260V	
Power Consumption	2.0W (max)			
Operating Temperature	-10°C +50°C			
Operating Humidity	30%-90% RH			
Storage Temperature	-20°C-+60°C			
Dimension	87(L) x 52 (W) x 45 (H) mm			
Weight	350g. (Approx)			

ONE CABLE VIDEO SYSTEM

ONE CABLE VIDEO SYSTEM

Product No: GSD-HOC480P (PAL)

FEATURES:

- 1/3" CCD high resolution colour camera
- Video signal & power transmitted through a single 75 ohms coaxial cable
- Cable compensation circuit built in
- Power balance circuit



SPECIFICATION:

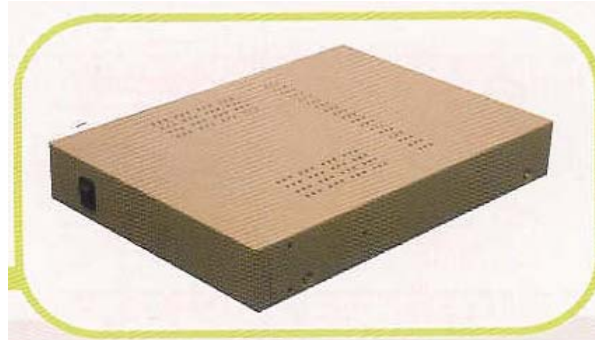
<i>Image Area</i>	4.9mm x 3.7mm
<i>Image Device</i>	1/3" CCD
<i>Pixel Elements</i>	752 (H) x 582 (V) PAL
<i>Scanning System</i>	2:1 Interlace V: 50Hz, H: 15.625 KHz 2:1 Interlace V: 60Hz, H: 15.750KHz
<i>Synchronisation</i>	Internal
<i>Video Output</i>	1Vp-p, 75 ohm unbalanced
<i>Horizontal Resolution</i>	Norma Mode: 480 TV Lines Colour Killer Mode: 500 TV Lines
<i>S/N Ratio</i>	More Than 50dB
<i>Gamma Compensation</i>	0.45
<i>Minimum Illumination</i>	0.6 Lux (F1.2) 50 IRE Video Output
<i>Day & Night</i>	Colour Killer Mode: 500 TV Line
<i>Colour Killer</i>	Fuzzy ON/OFF
<i>Flickerless</i>	On/Off Switchable
<i>Auto Gain</i>	Turbo Gain: 36 dB; Present Gain: 30dB
<i>AGC Boost</i>	Enhance AGC Gain to maximum 36dB
<i>Iris Control Mode</i>	Video Drive/DC Drive Separate Output
<i>White Balance Range</i>	2500-9500K
<i>Backlight Compensation</i>	Centre Area for Auto Iris and AES
<i>Exposure Control</i>	Auto Detect: Auto Electronic Shutter/Video Auto Iris/DC Auto Iris
<i>Shutter Control</i>	Auto Luminance Control 1/50 (60) -1/100,000 sec. max
<i>Aperture Correction</i>	Horizontal/Vertical Direction
<i>Lens Mount</i>	C/CS Mount
<i>Backfocus Ring</i>	Adjustable by screw
<i>Iris Connector</i>	Video Drive: Terminal Block on Rear DC Drive: 4 Pin Connector on Side
<i>Case Material</i>	Aluminium
<i>Dimension</i>	58mm(W) x 66mm (H) x 131mm (L)
<i>Input Voltage</i>	DC12V (one cable application)
<i>Ambient Temperature</i>	-10° C to 50° C
<i>Ambient Humidity</i>	30% to 90% RH

ONE CABLE VIDEO SYSTEM

ONE CABLE VIDEO SYSTEM

Product No: GSD-MIX4

Product No: GSD-MIX9



SPECIFICATION:

	<i>GSD-MIX4</i>	<i>GSD-MIX9</i>
<i>Input Power</i>	AC90V~AC240V Universal Power	
<i>Power Output for Camera</i>	19VDC	
<i>Power Consumption</i>	30W max.	60W max.
<i>Input Connection</i>	4 Camera Input by BNC	9 Camera Input by BNC
<i>Output Connection</i>	4 Monitor output by BNC	9 Monitor output by BNC
<i>Operation Temperature</i>	-10°C ~ +50°C	
<i>Dimension</i>	44.2mm (W) x 210mm (H) x 281.8mm (D)	

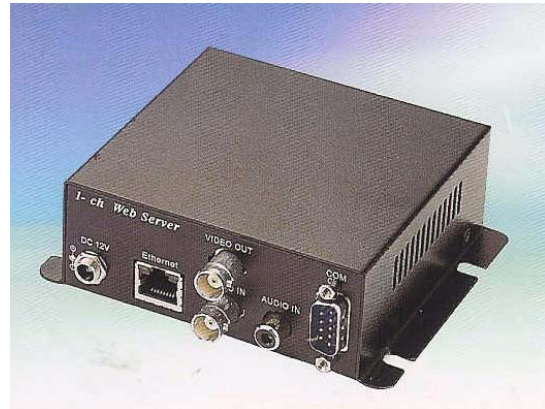
SINGLE CHANNEL AUDIO & VIDEO SERVER

SINGLE CHANNEL AUDIO & VIDEO SERVER

Product No: GSD-WB8110

FEATURES:

- 1 camera input/1 audio input
- Password protection
- Event triggered by motion detection
- JPEG video compression
- Built in web server
- Remote surveillance through internet or intranet
- GPIO for sensor & alarm
- Transfer of event snapshots via FTP or email
- Remote PTZ camera control
- Built in watchdog function
- Packed with remote video/audio recording software



SPECIFICATION:

Video Input	BNC x 1
Audio Output	RCA x 1
Video Output	BNC x 1
Pixel Elements	PAL: 500 (H) x 582 (V)
Video Resolution	VGA: 704 x 576 CIF: Up to 25 Fps at 352 x 288 QCIF: Up to 25 fps at 176 x 144
Video	Features: Adjustable Image Quality, Brightness, Contrast, Hue, Saturation, Sharpness Level Adjustment Compression: JPEG
Networking	Protocol: TCP/IP, ICMP, HTTP, FTP, SMTP, DDNS, PPPoE Ethernet: 10 base T or 100 base T Fast Ethernet
Audio Compression	Analogue PCM/ Digital ADPCM
Pan Tilt Zoom	Built in multiple models supported
IP Assignment	Communication Port, DHCP or PPPoE, IP Editor
Viewing System Requirement	Microsoft IE 4.x and 5.x or above, Netscape Navigator 7.x running on Windows/ 95/ 98/ ME/ 2000/ XP/ 2003 Linux with X-Windows
Firmware Upgrade	Through HTTP mode
Security	2 Layers Password
Operating Humidity	5°C – 50°C
Input Voltage	DC12V, 500mA
Power Consumption	Max. 5 Watts
Dimension (W x H x D)	99x 39x 95 mm
Weight	340g.

IP CAMERAS

IP CAMERAS

Product No: GSD-IP2400 (PAL)

FEATURES:

- Embedded 1/4" CCD sensor
- Built in fixed 3.6mm lens
- Password protection
- Ethernet 10/100 base T
- Intelligent video motion detection
- Watchdog function
- JPEG video compression



SPECIFICATION:

<i>CCD Sensor</i>	1/4" CCD
<i>Pixel Resolution (H*V)</i>	500*582
<i>Horizontal TV Line</i>	380
<i>LENS</i>	3.6m/m (F 2.0)
<i>Max Resolution</i>	VGA: 704*576, CIF: 352*288, QCIF: 176*144)
<i>Video Adjustment</i>	Quality, brightness, contrast, hue, saturation, sharpness level adjustment
<i>Lens</i>	Board lens
<i>Network Interference</i>	Ethernet (10/100 Base-T)
<i>Video Compression</i>	JPEG
<i>Hardware</i>	CPU: 32 bits RISC processor, ROM: 2M bytes flash ROM, RAM: 8M bytes SDRAM, watch dog: chip to monitor out tolerance system voltage and abnormal programme execution, two LED's to indicate network and power / system status, one RJ-45 for Ethernet, the mini-din includes one video output and 4 sets of GPIO relay
<i>Performance</i>	Network throughput: max up to 700k bytes per second, video throughput: up to 30frames per second/single video more than 8 connections simultaneously
<i>Protocols</i>	TCP/IP, UDP, ICMP, HTTP, FTP, SMTP, DDNS, PPPOE
<i>Event Trigger & Action</i>	Triggered by motion detection. 1) Action: store image to internal buffer, 2) FTP image to remote site, 3) Email image to specific account, 4) HTTP server push to remote site; relay output to control external devices; etc.
<i>IP Assignment</i>	Communication Port, DHCP or PPPOE, IPE ditor
<i>System Requirement</i>	Microsoft IE4.x and 5.x or above, Netscape Navigator 7.x running on Windows/ 95/ 98/ ME/ 2000/ XP/ 2003 Linux With-X-Windows
<i>Firmware Upgrade</i>	Through HTTP mode
<i>Security</i>	2 layers password protection
<i>Operating Humidity</i>	5°C ~ 50°C
<i>Input Voltage</i>	DC12V 500mA
<i>Power Consumption</i>	Lower than 6Watts
<i>Dimension (W x H x D) mm</i>	106*42*68
<i>Weight kg</i>	240

IP CAMERAS

IP CAMERAS

Product No: GSD-TCP680 (PAL)

FEATURES:

- Internal built in CCD provides all in one CCTV solution
- Remote surveillance through internet or intranet
- Event triggered picture can be sent via FTP or email
- System base on Jave platform for better stability
- Remote recording
- PPPoE or DDNS support
- Video motion detection
- Audio (option)
- AP software provided



SPECIFICATION:

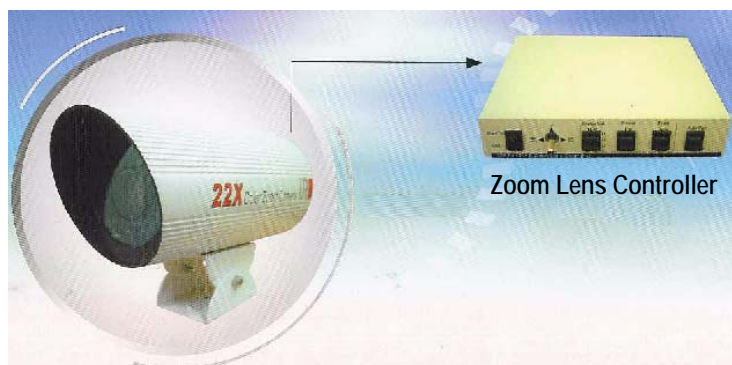
<i>CCD Sensor</i>	1/3" SONY Super HAD CCD
<i>Pixel Resolution (H x V)</i>	500 x 582
<i>Horizontal TV Lines</i>	380
<i>Lens</i>	CS mount (support DC driver)
<i>Resolution</i>	VGA PAL: 704 x 576, CIF: 352 x 288, QCIF: 176 x 144
<i>Video Control</i>	-Automatic gain control (On/Off) -Auto electronic shutter (On/Off) Back light compensation (On/Off)
<i>Video Adjustment</i>	Quality, brightness, contrast, hue, saturation, sharpness level adjustment
<i>Network Interference</i>	Ethernet (10/100Base-T)
<i>Video Compression</i>	JPEG
<i>Audio Compression</i>	Analogue PCM/Digital ADPCM
<i>Hardware</i>	-CPU: 32 bits RISC processor, ROM: 2M bytes flash ROM, RAM: 8M bytes SDRAM, watch dog: chip to monitor out tolerance system voltage and abnormal program execution, two LED's to indicate network and power/system status, one RJ-45 for Ethernet, auto IRIS output, BNC video output, the mini-din includes 4 sets of GPIO relay
<i>Performance</i>	Network throughput: max up to 700K bytes per second, Video throughput: up to 30 frames per second/ single video more then 8 connections simultaneously
<i>Protocols</i>	TCP/IP, ICMP, HTTP, FTP, SMTP, DDNS, PPPoE
<i>Event Trigger & Action</i>	Triggered by Motion Detection. 1) Action: store image to internal buffer, 2) FTP image to remote site, 3) Email image to specific account, 4) HTTP server push to remote site; relay output to control external devices; etc.
<i>IP Assignment</i>	DHCP or PPPoE, IP installer
<i>System Requirement</i>	Microsoft IE4 x and 5.x or above, Netscape Navigator 7.x running on Windows/ 95/ 98/ ME/ 2000/ XP/ 2003 Linux With-X-Windows
<i>Firmware</i>	Through HTTP mode
<i>Security</i>	2 layers password protection
<i>Operating Humidity</i>	5°C ~ 50°C
<i>Input Voltage</i>	DC12V (+,-10%), 1000mA
<i>Power Consumption</i>	Lower than 7 Watts
<i>Dimension (W x H x D) mm</i>	125x53x60
<i>Weight kg</i>	300

220X WATERPROOF IR CAMERA WITH ZOOM LENS CONTROLLER

220X WATERPROOF IR CAMERA WITH ZOOM LENS CONTROLLER

Product No: GSD-IR22XCH (PAL)

Product No: GSD-IR22XCH/PTL



SPECIFICATION:

TV System	PAL
Image Sensor	1/4-inch CCD Image Sensor
CCD Effective Pixels	795 (H) x 596 (V)
Scanning System	625 lines, 50 fields/sec
SYNC System	Internal/ VD-Lock
Sensitivity	0.002 lux
Lens	Canon 22X optical zoom lens, F1.6-3.7, f=3.7-85.1mm
Motor-Zoom/Focus/Iris	500,000 times life
Zoom	22X optical 10X digital, Focus: Auto/Manual, Position: 64 position
Resolution	480 TV lines
S/N Ratio better than	56dB (AGC OFF, r=1, APC OFF, Y-OUT)
Control Interface	RS-232, RS-485 (optional)
White Balance	ATW/AWB/FIX (3200-9600 K) (Zero colour rolling),
B.L.C. Function	Super BLC, 48 zone BLC
Electronic shutter	1/50-1/120,000 sec/ Manu: 8 step
Video Output	Composite & Y/C output, 1.0Vp-p at 75ohm
AGC	Auto (18dB max), ALC: Auto/Fix, Gamma Correction:0.45
Communication Baud Rate	9600 bps
Image Negative/Cross Line	Select by OSD menu
Freeze Function	Alarm in trigger or selected by OSD
Storage Temp /Operation Temp	-30°C to 60°C/-20°C to 50°C, Water Resistance: IP 68
IR LED	45 unit Infrared LED, 6000hrs, View Angle: 70° Beam Spread 30°
Distance	50 Meter
Power Supply	DC 12V (+/- 10%), IR DC 12V 660mA
Construction	Aluminium, with off-white baked enamel finish
Dimensions/Weight	Ø 105mm x 250 (L) mm/1.2Kgs (2.64lb)

WATERPROOF CAMERA

WATERPROOF CAMERA

Product No: GSD-VCCCH410IR (PAL)

FEATURES:

- All in one camera for day/night surveillance
- Water resistant IP68 rated
- IR distance 20mtrs
- 0 Lux with IR
- Auto trace white balance
- Electronic shutter up to 1/100,000 sec



SPECIFICATION:

<i>Pick-up Device</i>	1/3" CCD image sensor
<i>Pick up Elements</i>	510 (H) x 582 (V)
<i>Sync. Frequency</i>	15.625 KHz, 50Hz
<i>Synchronisation</i>	Line Lock
<i>Horizontal Resolution (TV lines)</i>	380
<i>Min. Illumination</i>	1.5 Lux
<i>Sensitivity</i>	0 Lux (IR ON)
<i>Back Light Compensation</i>	AUTO
<i>Electronic Shutter</i>	AUTO, Range: 1/50 (1/60)~1100,000 sec.
<i>Gain Control</i>	AUTO
<i>Lens (F2.0)</i>	6mm
<i>Gamma Correction</i>	0.45
<i>S/N Ratio More than</i>	48dB
<i>Video Output</i>	1Vp-p, 75 Ohms
<i>Power Supply</i>	110VAC or 230VAC (+/-10%)
<i>Power Consumption</i>	7W (+/-10%)
<i>Weight gr</i>	900
<i>Dimensions mm</i>	101 (W) x 112.3 (H) x 255 (D)
<i>Storage Temperature</i>	-30°C~ +60°C
<i>Operating Temperature</i>	-10°C~ +45°C

WATERPROOF MINI CAMERAS

WATERPROOF MINI CAMERAS

Product No: GSD-SN390C—Colour Water-Proof Mini Camera

FEATURES:

- 1/4" IT CCD, 330TVL, 2.5Lux
- S/N ratio over 45dB, AGC, ES
- Underwater depth «30m
- Brass Body
- Exquisite design, precise circuit & structure, incarnated the highest technology
- All-sealed water-proof body
- Cabinet bulk, apply in concealing place specially
- Cable length 20m-60m optional



SPECIFICATION:

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<u>Signal System</u>	PAL Colour System
<u>Image Sensor</u>	1/4" IT Colour CCD
<u>No of Effective Pixels (HxV)</u>	500x582 (PAL)
<u>Resolution</u>	330 TV Lines
<u>Minimum Illumination</u>	1.5Lux/F2.0
<u>Shutter Speed</u>	1/50-1/100,000SEC (PAL/CCIR)
<u>S/N</u>	48dB
<u>Lens</u>	Fixed focus lens, f=3.6,6,8,12mm
<u>Gamma</u>	0.45
<u>White Balance</u>	Automatic
<u>AGC/BLC</u>	Automatic
<u>Output</u>	1.0Vp-p, 75Ω
<u>Power Supply</u>	DC12V Regulated
<u>Operation Temperature</u>	-10°C~+50°C, RH95%MAX
<u>Body</u>	Brass
<u>Dimension</u>	Ø 35.5x83mm
<u>Weight</u>	250g

WATERPROOF MINI CAMERAS

WATERPROOF MINI CAMERAS

Product No: GSD-SN290M

Black/White Water-Proof Mini Camera

FEATURES:

- 1/3" IT CCD, more than 400TVL, 0.4Lux
- S/N ratio over 45dB
- PIN Hole Lens (Board lens optional)
- Aluminium Body
- Exquisite design, precise circuit & structure, incarnated the highest technology
- All-sealed water-proof body
- Cabinet bulk, apply in concealing place specially
- Cable length 20m-60m optional



SPECIFICATION:

<i>Signal System</i>	CCIR B/W System
<i>Image Sensor</i>	1/3" IT B/W CCD
<i>No of Effective Pixels (HxV)</i>	752x582(CCIR)
<i>Resolution</i>	400 TV Lines
<i>Minimum Illumination</i>	0.4Lux
<i>Shutter Speed</i>	1/50-1/100,000SEC (PAL/CCIR)
<i>S/N</i>	45dB
<i>Lens</i>	Fixed focus lens, f=3.6,6,8,12mm
<i>Gamma</i>	0.45
<i>White Balance</i>	
<i>AGC/BLC</i>	
<i>Output</i>	1.0Vp-p, 75Ω
<i>Power Supply</i>	DC12V Regulated
<i>Operation Temperature</i>	-10°C~+50°C, RH95%MAX
<i>Body</i>	Aluminium
<i>Dimension</i>	Ø 23x50mm
<i>Weight</i>	30g

WATERPROOF BULLET CAMERA

WATERPROOF BULLET CAMERA

Product No: GSD-A6442DN / GSD-A6442C / GSD-A6882

FEATURES:

- Digital signal processing (DSP)
- High sensitivity colour & black/white CCD
- Horizontal resolution of 380 TV lines for colour model / 420 TV lines for monochrome model
- Minimum illumination of 0.1 Lux for colour model , 0.01 Lux for monochrome model
- Automatic switchover from colour to monochrome under low light for GSD-A6442DN only
- Built in 3.6mm (standard), 4.3mm, 6mm or 8mm lens (option)
- With sunscreen to protect from direct exposure to sunlight or rain drop
- Non-condensing coated glass
- Tamper proof glass



SPECIFICATION:

Model	GSD-A6442DN (Day & Night) GSD-A6442C (Full Colour)	GSD-A6882 (Monochrome)
Image Device	1/3" High Sensitivity CCD	
Effective Pixels	CCIR: 512 (H) x 582 (V) pixels	
Scanning System	V: 60Hz Interlace PAL: 15.625KHz, V: 50Hz	
Horizontal Resolution	380 TV Lines	420 TV Lines
Video Output	1.0Vp-p, composite video 75 ohm	
Signal to Noise Ratio	Greater than 48dB	
Synchronisation	Internal	
Minimum Illumination	0.1 Lux	0.01 Lux
White Balance	Auto Tracking White Balance 2500K-9500K	-n/a-
Electronic Shutter	AES 1/50 (60) – 1/100,000 sec.	
Lens	3.6mm (standard), 4.3mm, 6mm, 8mm (option)	
Gamma Correction	0.45	
Gain Control	Automatic Gain Control	
Backlight Compensation	Centre zone	
Aperture Correction	Vertical & Horizontal	
Power Supply	12VDC +/- 10%	
Operating Temperature	-10°C - + 45°C	
Storage Temperature	-30°C - + 60°C	
Dimension	31mm (L) x 100mm (W)	
Net Weight	150g	

WATERPROOF BULLET CAMERA

WATERPROOF BULLET CAMERA

Product No: GSD-SBC6420 / GSD-SBC6380

FEATURES

- Special design
- DSP colour camera
- Auto trace white balance
- Electronic shutter up to 1/100,000 speed
- Adjustable bracket for wall & ceiling mount



SPECIFICATION:

Model	GSD-SBC6420	GSD-SBC6380
CCD Image	1/3" CCD image sensor	1/4" CCD image sensor
Picture Elements	500 x 582	512 x 582
H Sync Frequency	15.625KHz	15.625KHz
V Sync Frequency	50Hz	50Hz
V Synchronisation	Internal	Internal
Horizontal Resolution (TV Lines)	420	380
Minimum Illumination	0.1 Lux	1 Lux
Back Light Compensation	Auto	Auto
Electronic Shutter	Auto, range: 1/50 (1/60) ~ 1/100,000 sec	Auto, range: 1/50 (1/60) ~ 1/100,000 sec
Auto Gain Control	Auto	Auto
Lens (F2.0)	3.6mm standard, 6mm, 8mm & 12mm option	3.7mm F3.5 pin hole for bottom side
Gamma Correction	0.45	0.45
S/N Ratio	More than 48dB	More than 48dB
Video Output	1 Vp-p, 75Ohms	1 Vp-p, 75Ohms
Power Supply	12V DC only	12V DC only
Power Consumption	100mA	125mA
Storage Temperature	-30°C ~ +60°C	-30°C ~ +60°C
Operating Temperature	-10°C ~ +45°C	-10°C ~ +45°C
Dimensions	Ø22mm x 81mm (H)	Ø22mm x 81mm (H)
Weight (gross)	80g	80g

ALL IN ONE DAY/NIGHT CAMERA

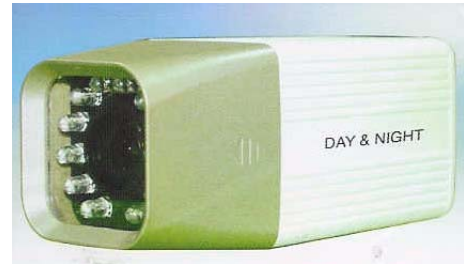
ALL IN ONE DAY/NIGHT CAMERA

Product No: GSD-CVC3480P (PAL)

Product No: GSD-CVC3350P (PAL)

FEATURES:

- All models use high sensitivity 1/3" Sony CCD
- Ideal for 24 hours surveillance
- Day/night switchable at required light level
- Built in ICR (IR cut removable filter) ideal for daytime & night time surveillance with CDS light control
- With a choice of varifocal DC iris lens 3.6mm—9mm
- With 12 infrared LED's covering 12m range of distance



SPECIFICATION:

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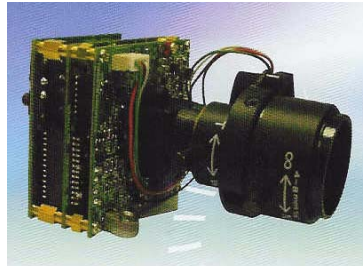
Model	CVC-3480P (PAL)	CVC-3350P (PAL)
Image Area	4.9mm x 3.7mm	
Image Device	1/3" Inteline Transfer SONY SuperHAD CCD	
Pick Up Elements	752 (H) X 582 (V) Pixels	500 (H) x 582 (V) Pixels
Scanning System	2:1 Interlace PAL, V: 50Hz, H: 15.625KHz	
Video Output	1 Vp-p Composite Output, 75 ohms	
Sync. System	Internal for DC/Linelock for AC	
Minimum Illumination	0.1 Lux at F1.2/0 Lux (IR ON)	
IR Led	12 LEDS	
IR Distance	12 Metres	
Horizontal Resolution	480 TV Lines	380 TV Lines
Built In Lens	Built in Varifocal DC Iris lens w/ IR-cut filter mechanism 3.6mm-9mm	
Backlight Compensation	Dip switch: On/Off	
Electronic Shutter	Dip Switch: On/Off	
Gain Control	Dip Switch: On/Off	
Gamma Correction	0.45	
S/N Ratio	More Than 48dB (AGC Off)	
Operating Humidity	30-90% RH	
Power Supply	12VDC, 24VAC, 110VAC/230VAC	
Power Current	200mA	180mA
Weight	DC: 270g/AC: 430g	
Dimension	58.4mm (W) x 58.8mm (H) x 140.5mm (D)	

COLOUR MODULE

COLOUR MODULE

Product No: GSD-SSVC330TV (PAL)

Product No: GSD-SSVC480TV (PAL)



SPECIFICATION:

Model No	GSD-SSVC330TV	GSD-SSVC480TV
Pick Up Device	1/3" CCD image sensor	
Image Size	4.82 x 3.64mm	
Pickup Elements	500Hx582V	752Hx582V
Horizontal Resolution	More than 330 TV lines	More than 480 TV lines
Synchronise Frequency	15.625kHz/50Hz	
Scanning System	2:1 interlace	
Sensitivity	1 Lux F=1.2	1 Lux F=1.2
Synchronisation	Internal for DC12V/ext VBS (optional) linelock with V phase adjustment	
S/N Ratio	More than 46dB	More than 50dB
Video Output	1 Vpp, 75Ohms composite	
Power Supply	DC12V	
Power Consumption	4W	
Back Light Compensation	On/off switchable	
Auto Gain Control	Auto	
White Balance	Auto tracing white balance	
Mount Lens	Varifocal DC 3.5~8.5mm lens	
Dimensions D x W x H	42mm x 42mm	
Weight	94 grams	
Storage Temperature	-30 to +60 degrees C	
Operating Storage	-10 to +50 degrees C	

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Model	CCD Image	Resolution	Day/Night	Linelock	Power
GSD-SSVC330	1/3" Sony CCD	330TVL	No	No	DC12V
GSD-SSVC330TVL	1/3" Sony CCD	330TVL	No	Yes	AC24V
GSD-SSVC330TVL/DN	1/3" Sony CCD	330TVL	Yes	No	DC12V
GSD-SSVC330TVL/DN	1/3" Sony CCD	330TVL	Yes	Yes	AC24V
GSD-SSVC480	1/3" Sony CCD	480TVL	No	No	DC12V
GSD-SSVC480TVL	1/3" Sony CCD	480TVL	No	Yes	DC12V
GSD-SSVC480TVL/DN	1/3" Sony CCD	480TVL	Yes	No	DC12V
GSD-SSVC480TVL/DN	1/3" Sony CCD	480TVL	Yes	Yes	AC24V

BOARD CAMERAS

BOARD CAMERAS

Product No: GSD-SN280C

Product No: GSD-SN240C

Product No: GSD-SN220C

With the same features and specifications as the colour board camera range

ADDITIONAL FEATURES:

- Metal case
- Selectable board lens f=2.8, 3.6, 6, 8, 12, 16mm
- Dimensions: 48 (H) x 46 (W) x 25 (D) mm



Product No: GSD-SN170M

Product No: GSD-SN100M

With the same features and specifications as the black/white board camera range

ADDITIONAL FEATURES:

- Metal case
- Selectable board lens f=2.8, 3.6, 6, 8, 12, 16mm
- Dimensions: 48 (H) x 46 (W) x 25 (D) mm

COLOUR BOARD CAMERAS

COLOUR BOARD CAMERAS

Product No: GSD-SNBC288



Product No: GSD-SNBC280



Product No: GSD-SNBC240



Product No: GSD-



SPECIFICATION:

Item	GSD-SNBC288	GSD-SNBC280	GSD-SNBC240	GSD-SNBC220
Signal System	PAL			
Image Sensor	1/3" IT CCD			1/4" IT CCD
Effective Pixels (HxV)	PAL: 752x582	PAL: 752x582	PAL: 500x582	PAL: 500x582
Resolution	480 TV Lines	480 TV Lines	330 TV Lines	330 TV Lines
Lens	Varifocal DC Auto-Iris Lens, f=2.6~6mm, f=4~9mm	Fixed board lens, f=2.8, 3.6, 6, 8, 12, 16mm & C & CS Mount lens, f=4, 6, 8, 12, 16mm		
Minimum Illumination	0.8Lux/F1.4	1.0Lux/F1.4	1.0Lux/F1.4	1.0Lux/F1.4
Shutter Speed	1/50-100,000 sec (PAL)			
S/N Ratio	48dB			
Gamma	0.45			
ES	On/Off	Automatic		
AWB	On/Off	Automatic		
BLC	On/Off	Automatic		
Mirror	On/Off			
Sync Mode	INT/LL	INT		
AGC	Automatic			
Output Signal	1.0Vp-p 75Ohm			
Power Supply	24VAC or 12VDC	DC 12V regulated		
Consumed Current	150mA (max) (12V DC)	210mA (max)	110mA (max)	
Operation Temperature	-10°C ~ +50°C, RH95%			
Dimensions	42mmx42mm			

BLACK/WHITE BOARD CAMERAS

BLACK/WHITE BOARD CAMERAS

Product No: GSD-SNBM178



Product No: GSD-SNBM170



Product No: GSD-SNBM100



SPECIFICATION:

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	<i>GSD-BM178</i>	<i>GSD-BM170</i>	<i>GSD-BM100</i>
<i>Signal System</i>	CCIR		
<i>Image Sensor</i>	1/3" IT CCD		
<i>Effective Pixels (HxV)</i>	CCIR: 768x494	CCIR: 752x582	CCIR: 500x582
<i>Resolution</i>	560 TV Lines	560 TV Lines	420 TV Lines
<i>Lens</i>	Varifocal DC Auto Iris lens, f=2.6~6mm, f=4~9mm	Fixed board lens, f=2.8, 3.6, 6, 8, 12, 16mm & C & CS mount lens, f=4, 6, 8, 12, 16mm	
<i>Minimum Illumination</i>	0.04 Lux/F1.4		0.1/F1.4 Lux
<i>Shutter Speed</i>	1/50~1/100,000 sec (CCIR)		
<i>S/N Ratio</i>	48dB		
<i>Gamma</i>	0.45		
<i>AGC</i>	On/Off	Automatic	
<i>ES</i>	On/Off	Automatic	
<i>BLC</i>	On/Off	Automatic	
<i>Sync Mode</i>	INT/L.L	INT	
<i>Output Signal</i>	1.0Vp-p 75Ohm		
<i>Power Supply</i>	24VAC or 12VDC	DC 12V regulated	
<i>Consumed Current</i>	150mA (max) (12VDC)	110mA (max)	
<i>Operation Temperature</i>	-10°C ~ +50°C, RH95%		
<i>Dimensions</i>	42mmx42mm		

SMOKE DETECTOR CAMERA

SMOKE DETECTOR CAMERA

Product No: GSD-SMC4420 (CCIR)

Product No: GSD-SMC4380 (PAL)

FEATURES:

- Good picture quality
- Changeable lenses
- Low power consumption
- Easy to install
- Adjustable angle



SPECIFICATION:

Model	GSD-SMC4420	GSD-SMC4380
CCD Image	1/3" SONY CCD	1/4" SONY CCD
Picture Elements	CCIR: 512 x 582	PAL: 512 x 582
H. Sync Frequency	CCIR: 15.652 KHz	PAL: 15.625 KHz
V. Sync Frequency	CCIR: 50Hz	PAL: 50Hz
V. Synchronisation	Internal	
Horizontal Resolution (TV Lines)	420	380
Minimum Illumination	0.05 Lux	1 Lux
Back Light Compensation	Auto	
Electronic Shutter	Auto, Range: 1/50 (1/60) ~ 1/100,000 sec.	
Auto Gain Control	Auto	
Lens (F2.0)	3.7mm F3.5 pin hole for bottom side	
Gamma Correction	0.45	
S/N Ratio	More than 48 dB	
Video Output	1 Vp-p, 75 Ohms	
Power Supply	12VDC	
Power Consumption	110mA	180mA
Storage Temperature	-30°C ~ + 60°C	
Operating Temperature	-10°C ~ + 45°C	
Dimension	125mm x 52mm (H)	
Weight (Gross)	161g	

COMPACT & ADVANCED CCTV CAMERAS

COMPACT & ADVANCED CCTV CAMERAS

GSD-CXPH2230 (PAL)
GSD-CXCH2230 (CCIR)

GSD-CXPM2120 (PAL)
GSD-CXCM2120 (CCIR)

The range includes a monochrome medium resolution with 400 horizontal TV lines, and high-resolution model with 600 horizontal TV lines, while the colour version gives 350 lines and 480 TV lines respectively.

FEATURES

- 1/3" Lo-Lux High Sensitivity CCD
- Auto Detect Exposure Control: Auto Electronic Shutter/ Video auto Iris/ DC Auto Iris
- Colour killer available for all colour models
- Available in power variants AC24V/DC12V or 100V-240V AC Mains
- Line-lock with V-phase adjustment 0°- 270°



COMPACT & ADVANCED CCTV CAMERAS

COMPACT & ADVANCED CCTV CAMERAS

GSD-CXPH2230 (PAL)

GSD-CXPM2120 (PAL)

SPECIFICATION:

Model	GSD-CXPH2230 (PAL)	GSD-CXPM2120 (PAL)
Image Sensor	1/3" Format Interline CCD	
Effective Pixels	752 (H) x 582 (V)	500 (H) x 582 (V)
Scanning Frequency	2:1 Interlace/ H: 15625 Hz, V: 50Hz	
Resolution	Normal Mode: 480 TV Lines Colour Killer Mode: 500 TV Lines	Normal Mode: 330 TV Lines Colour Killer Mode: 350 TV Lines
Minimum Illumination	0.6 Lux F1.2 (50 IRE Video Output)	0.4 Lux F1.2 (50 IRE Video Output)
Video Output	1.0 Vpp 75 ohm BNC unbalanced	
Signal to Noise Ratio	Greater than 50dB	
AGC Turbo	Greater than 36dB	
AGC Present Gain	Greater than 30dB	
Horizontal Aperture	10 IRE (r0.45 100 IRE Video Output)	
Vertical Aperture	10 IRE (r0.45 100 IRE Video Output)	
Gamma Compensation	0.45	
Exposure Control	Auto Detect: Auto Electronic Shutter/ Video Auto Iris/ DC Auto Iris	
AES	Auto Luminance Control 1/50 (60)- 1/100,000 sec. Max	
Auto Iris Control	Video Drive/ DC Drive Separate Output	
BLC	Centre Area for Auto Iris and AES	
White Balance	Auto White Balance	
White Balance Range	2500°K - 9500°K	
Day & Night	Colour Killer Auto Detect by Luminance	
Colour Killer	Fuzzy On/Off	
Sync System	Internal for DC/ Linelock for AC, Linelock Phase 0° - 270° Frequency: 50/60Hz ± 1Hz	
Storage Temperature	-20°C - +60°C	
Operating Temperature	-10°C - + 50°C	
Power Source	CCIR/PAL: AC24V/DC12V ± 20%, AC100V-240V	
Power Consumption	4.2W (Max)	
Back Focus	CS Mount 11mm- C mount 18mm	
External Dimension	58mm (W) x 66mm (H) x 131mm (L)	
Weight	0.54g	

COMPACT & ADVANCED CCTV CAMERAS

COMPACT & ADVANCED CCTV CAMERAS

GSD-CXCH2230 (CCIR)

GSD-CXCM2120 (CCIR)

SPECIFICATION:

Model	GSD-CXCH2200 (CCIR)	GSD-CXCM2120 (CCIR)
Image Sensor	1/3" Format Interline CCD	
Effective Pixels	752 (H) x 582 (V)	500 (H) x 582 (V)
Scanning Frequency	2:1 Interlace/ H: 15625 Hz, V: 50Hz	
Resolution	600 TV Lines	400 TV Lines
Minimum Illumination	0.2 Lux F1.2 (50 IRE Video Output)	0.1 Lux F1.2 (50 IRE Video Output)
Video Output	1.0 Vpp 75 ohm BNC unbalanced	
Signal to Noise Ratio	Greater than 50dB	
AGC Turbo	Greater than 36dB	
AGC Present Gain	Greater than 30dB	
Horizontal Aperture	10 IRE (r0.45 100 IRE Video Output)	
Gamma Compensation	0.45	
Exposure Control	Auto Detect: Auto Electronic Shutter/ Video Auto Iris/ DC Auto Iris	
AES	Auto Luminance Control 1/50 (60)- 1/100,000 sec. Max	
Auto Iris Control	Video Drive/ DC Drive Separate Output	
BLC	Centre Area for Auto Iris and AES	
Sync System	Internal for DC/ Linelock for AC, Linelock Phase 0°- 270° Frequency: 50/60Hz ± 1Hz	
Storage Temperature	-20°C - +60°C	
Operating Temperature	-10°C - + 50°C	
Power Source	CCIR/PAL: AC24V/DC12V ± 20%, AC100V-240V	
Power Consumption	3.2W (Max)	
Back Focus	CS Mount 11mm- C mount 18mm	
External Dimension	58mm (W) x 66mm (H) x 131mm (L)	
Weight	0.54g	

DAY/NIGHT CAMERAS

DAY/NIGHT CAMERAS

Product No: GSD-CDN8110XPEXR

System Day/Night, Sony Ex View HAD OLPF removable, 480TVL/570 TVL, 0.039 Lux, RS485 Digital Remote Set Up, IR Lamp Trigger, On Screen Display

Product No: GSD-CDN6600XPSS

Standard Day/Night, High Sensitivity CCD OLPF Removable, 480 TVL/570 TVL, 0.34 Lux, IR Lamp Trigger, On Screen Display



FEATURES

- Remote setting via RS485 for system application (GSD-CDN8110XP/EXR only)
- Incorporate 1/3" SONY EXview HAD CCD (GSD-CDN8110XP/EXR only)
- Incorporate 1/3" High Sensitivity CCD (CDN660XPN/SS only)
- Quick and ready to install lens with back focus mechanism
- Automatic switchover to D/N mode with mechanical filter
- Reproduce 480 TV Lines in colour and 570 TV Lines in Monochrome
- Privacy zone for masking function for the protected areas (GSD-CDN8110XPN/EX-R only)
- Low image distortion and residual, withstanding electric and magnetic field interference, and mechanical vibration
- Excellent signal to noise ratio, > 52dB
- Accurate colour reproduction and 2 application range of ATW balance over a wide colour temperature on outdoor condition
- Aperture and colour suppression under low light to reduce spectral and chroma noise
- Automatic electronic shutter provides > 1,600:1, equivalent to 40 steps extended dynamic range to correct exposure, if a manual iris lens is used
- OSD (on screen display) is available for camera function set up
- Equipped with external contact terminal for IR lamp control to prevent OLPF mechanism to hunting back and forth at

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SPECIFICATION:

Model	GSD-CDN8110XPEX-R	GSD-CDN6600XPSS
Image Size	1/3" Format Interline (IT) CCD Transfer	
Image Type	Built in with 1/3" SONY EXviewHAD CCD	Built with 1/3" High Sensitivity CCD
Effective Pixels	752(H) x 582(V) PAL	768 (H) x 582 (V) PAL
Scanning Frequency	2:1 Interface/H: 15.625Hz, V: 50Hz	2:1 Interface/H: 15.825Hz, V: 50Hz
Resolution	480 TV Lines in colour mode 570 TV Lines in B/W mode	
Minimum Illumination	0.5 Lux in colour condition @ F1.2 0.03 Lux in B/W condition @ F1.2, with IR OLPF	0.6 Lux in colour condition @ F1.4 0.34 Lux in B/W condition @ F1.4, with IR OLPF
Video Output	1.0Vp-p 75 Ohm BNC	
Signal to Noise Ratio	Better than 52dB	Better than 50dB
Contour Edge Correction	Horizontal & Vertical Aperture Correction for Video Enhancement	
Gamma Compensation	0.45/0.8/1	

DAY/NIGHT CAMERAS

DAY/NIGHT CAMERAS

Product No: GSD-CDN8110XPEXR

Product No: GSD-CDN6600XPSS

ELECTRICAL SPECIFICATION:

<i>Power Source</i>	Low Voltage Type AC24V/DC12V \pm 20% tolerance Mains Voltage Type AC100V-AC240V (PAL Model Only)
<i>Power Consumption</i>	4.5W with AI Lens
<i>Power Indicator</i>	Green Led on Rear Panel

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ENVIRONMENTAL SPECIFICATION:

<i>Operation Temperature</i>	-10° C to + 50° C
<i>Storage Temperature</i>	-20° C to + 60° C

MECHANICAL SPECIFICATION:

<i>Iris Connector</i>	4 pin connector for DC Drive Lens 3 pin terminal block for Video Drive Lens
<i>Back Focus</i>	Adjustable By Screw
<i>Lens Mount</i>	CS Mount, Change C Mount By Adapter
<i>Mounting Hole</i>	Standard 1/4" Top and Bottom
<i>Cabinet Dimension</i>	73mm (W) x 63mm (H) x 122mm (D)
<i>Weight</i>	Low Voltage: 0.56Kg Mains Voltage: 0.7Kg

DAY/NIGHT CAMERAS

DAY/NIGHT CAMERAS

Product No: GSD-CDN8110XPEXR

Product No: GSD-CDN6600XPSS

FUNCTIONAL SPECIFICATION:

<i>Exposure Control</i>	Auto Iris Lens/ Electronic Shutter
<i>AES</i>	Auto Luminance Control 1/60 (1/50) to 1/100000 sec. Max
<i>MES</i>	P8 steps; 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000
<i>BLC</i>	6 modes: Full, Central 1, Central 2, Doorway 1, Doorway 2, 2/3
<i>Auto Iris Control</i>	Video Drive/ DC Drive separate output
<i>Video Iris Output</i>	600mV Vpp (100IRE Video Output)
<i>DC Iris Output</i>	1.2V at 85 ohm
<i>White Balance</i>	Auto White Balance/Push White/Manual White Balance
<i>Auto White Balance Range</i>	Standard Range: 2500-9500K, Full application range 2000K-18000K Max
<i>Manual White Balance Range</i>	1 Preset, R Gain and B Gain
<i>Privacy Zone</i>	3 zones can be programmed in every screen
<i>Colour Killer</i>	On/Off/Fuzzy
<i>Day & Night</i>	Automatic colour to monochrome or vice-versa switching with mechanical IR Filter
<i>Day & Night Setting</i>	IR Pass/ IR Cut/ Fuzzy
<i>IR Acceptance</i>	Yes
<i>IR Lamp Trigger</i>	External Relay Contact for GND Loop
<i>Fuzzy Logic</i>	Threshold: Low/Standard/High Duration: Time: 5 sec, 10 sec, 20 sec, 30 sec, 60 sec
<i>SYNC System</i>	Internal/Linelock with vertical phase adjustment (0° - 270°)
<i>Remote Controller</i>	RS485 Two Way Communications

DAY/NIGHT CAMERAS

DAY/NIGHT CAMERAS

Product No: GSD-CDN8110XPEXR

Product No: GSD-CDN6600XPSS

OSD CHARACTERISTICS:

<i>Sync System</i>	INT/LL
<i>Vertical Phase</i>	0° - 270°
<i>Exposure Control</i>	Auto Electronics Shutter/ Manual Electronics Shutter/ Auto Iris Lens
<i>AES</i>	Max, Limit and Level Adjustable
<i>MES</i>	8 Step 1/60 (1/50). 1/100 (1/120), 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000
<i>Flickerless</i>	MES 1/100 sec (1/120)
<i>Auto Iris Lens Driver</i>	Video Iris Lens/ DC Iris Lens
<i>Lens Level Control</i>	Both for DC Iris Lens/Video Iris Lens
<i>BLC</i>	6 Area Select and Level Adjustable: Full, Centre 1, Centre 2, Doorway 1, Doorway 2, 2/3
<i>White Balance Control</i>	Auto White Balance/ Push White Balance/ Manual White Balance
<i>Auto White Balance</i>	2 Application range selectable: 2500K-9500K/ 2000K-15000K
<i>Manual White Balance</i>	1 Present; R-gain/ B gain adjustable
<i>Gain Control</i>	Auto Gain Control
<i>Auto Gain Control</i>	5 Max. Level Selectable; 12dB/ 18dB/ 24dB/ 30dB; sensitivity up
<i>Gamma Control</i>	3 Step selectable: 0.45/0.8/1
<i>Aperture Control</i>	0-15IRE Max. For Vertical and Horizontal enhance sharpness
<i>Chroma</i>	Level Adjustable
<i>Chroma Separator</i>	On/OFF Selectable
<i>Day/Night</i>	IR Pass/ IR Cut/ Fuzzy
<i>Privacy Zone</i>	Size of window selectable
<i>Remote Control</i>	RS485 Two way communications
<i>Address</i>	000-999 ID Selectable

DAY/NIGHT IR CAMERAS

DAY/NIGHT IR CAMERAS

Product No: GSD-ICXIR380/15M—420 TV Line 15M

Product No: GSD-ICXIR480/15M—480 TV Line 15M

Product No: GSD-ICXIR380/25M—420 TV Line 25M

Product No: GSD-ICXIR480/25M—480 TV Line 25M

Goldcrest introduces the most recent release of weatherproof all in one day & night cameras with LED integrated and non-condensing glass for better illumination, which is an ideal solution for 24 hours surveillance. Image sensor is 1/3" Panasonic D4 CCD with low light sensitivity reaching 0.5 Lux in colour mode and 0 Lux with LED illumination, giving a clear black/white picture at night time. 420 TV Lines and 480 TV Lines of horizontal resolution are offered in PAL video systems.

FEATURES:

- IP68 rated waterproof housing
- Digital signal processing
- Horizontal resolution of 420/480 TV Lines
- Built in standard 4, 6, 8mm, 12mm (option) lens
- With choice of 18 units and 30 units of LED's
- With effective distance of 15-20m & 20-25m indoor / outdoor range
- Ideal camera for all day and night time surveillance
- Non-condensed glass



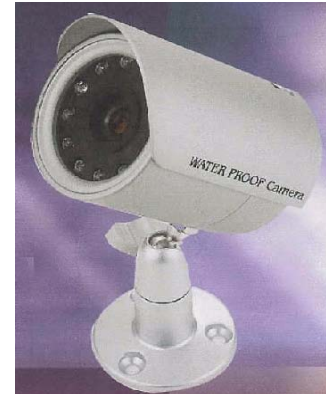
SPECIFICATION:

Model	GSD-ICXIR380/15M GSD-ICXIR480/15M	GSD-ICXIR380/25M GSD-ICXIR480/25M
Effective Pixels	PAL: 512(H) x 492(V), 1/3" CCD Image Sensor PAL: 753(H) x 582(V), 1/3" CCD Image Sensor	
Resolution	GSD-ICXIR380/15M: 420 TV Lines GSD-ICXIR480/15M: 480 TV Lines	GSD-ICXIR380/25M: 420 TV Lines GSD-ICXIR480/25M: 480 TV Lines
Minimum Illumination	0.5 Lux F2.0, day mode, 0 Lux night mode	
S/N Ratio	More than 48dB (AGC Off)	
Electronic Shutter	1/60 (50) to 1/100,000 sec	
Gamma	0.45	
White Balance	Auto White Balance	
Video Output	1.0 Vp-p composite, 75 ohm	
Lens	Fixed Lens 4mm (standard) 6, 8mm, 12mm (option)	
BLC	Auto	
IR LED Unit	18 Pieces	25 Pieces
IR Distance	15-20 Metres	20-25 Metres
IR Spectrum	850nm	
IP Rated	IP68	
Storage Temperature	-30°C to + 60°C	
Operating Temperature	-10°C to + 50°C	
Power Source	DC12V ± 10%	
Power Consumption	90mA (IR Off), 270mA (IR ON)	90mA (IR Off), 410mA (IR ON)
Dimension	151(L) x 68(W) x 70 ø (mm)	
Weight	500g	

NIGHT VISION IR CAMERA

NIGHT VISION IR CAMERA

Product No: GSD-BIR844212 (Sharp CCD) 12M (PAL)
 Product No: GSD-BIR844220 (Sharp CCD) 20M (PAL)
 Product No: GSD-BIR844612 (SONY CCD) 12M (PAL)
 Product No: GSD-BIR844620 (SONY CCD) 20M (PAL)
 Product No: GSD-BIR340012 12M (PAL)
 Product No: GSD-BIR340020 20M (PAL)



FEATURES:

- Digital Signal Processing (DSP)
- High sensitivity colour & B/W CCD
- Horizontal Resolution of 380 TV Lines/ 400 TV Lines
- Minimum Illumination of 0.1 Lux, colour mode, 0 Lux with LED illumination
- Maximum covered Distance: 12M/20M
- Built in Auto IR control circuit for stability and accuracy
- Built in 3.6mm lens (standard), 4.3mm 6mm or 8mm lens (option)
- Ideal camera for shooting at day and night
- With sunscreen to protect from direct exposure to sunlight or rain drop
- Non-condensing coated glass
- Tamper-proof glass

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Model	GSD-BIR844212 GSD-BIR844220 GSD-BIR844612 GSD-BIR844620	GSD-BIR340012 GSD-BIR340020
Image Device	1/3" High Sensitivity Colour CCD	1/3" High Sensitivity B/W CCD
Effective Pixels	PAL: 512 (V) x 582 (V)	CCIR: 512 (H) x 582 (V)
Scanning System	2:1 Interlace PAL: 15.625KHz, V: 50Hz	2:1 Interlace CCIR: 15.625 KHz, V: 50Hz
Horizontal Resolution	380 TV lines, colour condition 400 TV lines, B/W condition (IR ON)	420 TV Lines
Video Output	1 Vp-p Video composite, 75 ohm	
Minimum Illumination	0.1 Lux	0.01 Lux
IR Distance	12M/20M	
Signal to Noise Ratio	Greater than 50 dB	
Synchronisation	Internal	
White Balance	Auto Tracking White Balance 2500K-9500K	n/a
Electronic Shutter	AES 1/60 (50)- 1/ 100,000 sec.	
Lens	Built in fixed lens 3.6mm (standard), 4.3mm, 6mm, 8mm, 12mm (option)	
Gamma Correction	0.45	
Gain Control	Automatic Gain Control	
Backlight Compensation	Centre Zone	
Aperture Correction	Horizontal & Vertical	Horizontal
Power Supply	12VDC +/- 10%	
Storage Temperature	-30°C - + 60°C	
Operating Temperature	-10°C - + 45°C	
Dimension	52 (L) mm x 71 (W) mm	
Net Weight	410g	

PAN/TILT/ZOOM NETWORK CAMERA

PAN/TILT/ZOOM NETWORK CAMERA

Product No: GSD-PIV6732

The GSD-PIV6732 utilises a dynamic 10X power zoom lens with excellent video quality, total effective resolution of 380 TV Lines with minimum illumination 1.5 Lux normal light condition and 0.05 Lux under starlight mode. It is "all in one" integral of PTZ mechanism with 270° pan & 135° wide range, camera & IP based network.

The GSD-PIV6732 is capable of video display on CIF resolution at 25 F/p/s and VGA resolution at 12 F/p/s for PAL. It also provides a good networking solution with MPEG 4 compression standard.

The 10X zoom module, camera server & pan/tilt mechanism are all enclosed in a finely compact unit for highly effective surveillance. The desktop camera is easy to install with a wall mounting & ceiling mounting bracket.

FEATURES:

- Integrated PTZ, camera & network server
- MPEG 4 / MJPEG compression selectable
- 2 way audio
- Dual codec
- Synchronisation of audio & video signal
- UPNP & DDNS support
- Intelligent motion detection
- Pre/post alarm snapshots
- Extended GPIO for alarm & sensor triggered
- Free bundled viewing & recording software for 16 channel
- IR remote control

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PAN/TILT/ZOOM NETWORK CAMERA

Product No: GSD-PIV6732

SPECIFICATION:

<i>Remote Management</i>	Configuration & system log can be accessed via web browser & FTP application remotely
<i>Networking</i>	<u>PROTOCOL</u> UPNP, TCP/IP, HTTP, SMTP, FTP, Telnet, NTP, DNS, DDNS & DHCP <u>ETHERNET</u> 10BaseT or 100BaseT fast Ethernet auto negotiation
<i>Video</i>	<u>ALGORITHM</u> MPEG4 simple profile/MJPEG selectable streaming method JPEG for still image <u>FEATURES</u> Adjustable image size, quality & bit-rate Time stamp & text caption Flip & mirror
<i>Video Resolution (PAL)</i>	Up to 30/25 frames at 176x120/176x144 Up to 30/25 frames at 352x240/352x288 Up to 15/12 frames at 704x480/704x576
<i>Camera Spec</i>	1/4" CCD colour sensor PAL 380 TV lines horizontal resolution Minimum illumination of 1.5 Lux; 0.05 Lux under low light mode, F1.8 S/N ratio: max 52dB White balance range of 3200-9600°K Super BLC, 48 zone BLC Motion detect 48 zone Lens: 10X optical zoom lens, F=4.2 – 42mm, F1.8-2.9, 10X digital zoom
<i>Audio</i>	<u>ALGORITHM</u> 8K/24K/32bps <u>FEATURES</u> Simplex/half duplex/full duplex audio communication Acoustic echo cancellation Built in microphone Audio output connector External microphone connector
<i>Security</i>	3 levels of user privilege ID/password authentication
<i>LED Indications</i>	System power & status indicators System activity & network link indicators
<i>Dimensions</i>	Length: 105mm Width: 105mm Height: 125mm
<i>Weight</i>	Net 420g
<i>Power Development Kit</i>	12V DC, 1.5A external universal power supply Open ActiveX control
<i>Viewing System Requirement</i>	Operating system: Microsoft Windows 98 SE, ME, 2000, XP Browser: internet explorer 5.0 or above
<i>Free Bundled Software</i>	View & record live video from up to 16 cameras simultaneously Recording for the synchronised video & audio Manual, event-driven & schedule recording mode Zero waiting database searching & event preview Hard disk storage indicator & alarm High compression ratio & storage capacity

CAMERA ENCLOSURES

CAMERA ENCLOSURES

Product No: GSD-CH904



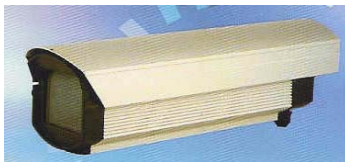
<i>Purpose</i>	Indoor
<i>Construction</i>	Aluminium
<i>Dimension</i>	295mm(L) x 124mm (W) x 95mm (H)
<i>Weight</i>	1.22Kgs

Product No: GSD-CH907



<i>Purpose</i>	Indoor
<i>Construction</i>	Aluminium
<i>Dimension</i>	290mm(L) x 80mm(W) x 70mm (H)
<i>Weight</i>	0.56Kgs

Product No: GSD-CH905L



<i>Purpose</i>	Indoor/Outdoor
<i>Accessory</i>	Heater (option)
<i>Construction</i>	Aluminium
<i>Dimension</i>	390mm(L) x 105mm(W) x 115mm(H)
<i>Weight</i>	0.75Kg

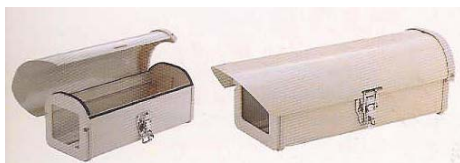
Product No: GSD-CH916



<i>Purpose</i>	Outdoor
<i>Accessory</i>	Blower & Heater (option)
<i>Construction</i>	Aluminium
<i>Dimension</i>	386mm(L) x 142mm(W) x 104mm (H)
<i>Weight</i>	2.5Kg

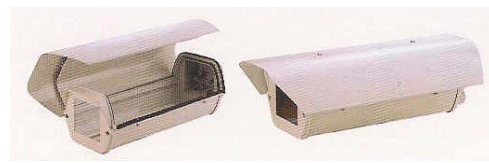
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Product No: GSD-CH920



<i>Type</i>	Side Open
<i>Material</i>	Aluminium
<i>Accessories</i>	Heater & Blower
<i>Control Temperature</i>	Heater: ON: 15°C OFF:25° Blower: ON: 35°C OFF:25°C
<i>Dimension</i>	125(W) x 126(H) x 370(L) mm
<i>Input Voltage</i>	DC12V, AC24V, 110VAC, 220VAC
<i>Weight</i>	1.25 kgs

Product No: GSD-CH921

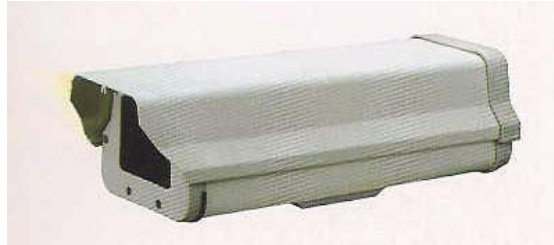


<i>Type</i>	Side Open
<i>Construction</i>	Aluminium
<i>Accessories</i>	Heater
<i>Control Temperature</i>	Heater ON: 15°C Heater OFF: 25°C
<i>Input Voltage</i>	DC12V, AC24V, 110VAC, 220VAC
<i>Dimension</i>	140(W) x 112(H) x 400(L) mm
<i>Weight</i>	1.6kgs.

CAMERA ENCLOSURES

CAMERA ENCLOSURES

Product No: GSD-CH917



<i>Purpose</i>	Outdoor
<i>Accessory</i>	Blower & Heater (Option)
<i>Construction</i>	Aluminium
<i>Dimension</i>	395mm(L) x 145mm(W) x 110mm (H)
<i>Weight</i>	1.4Kg

Product No: GSD-CH912L/912M

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<i>Model</i>	<i>GSD-CH912L</i>	<i>GSD-CH912M</i>
<i>Purpose</i>	Outdoor	
<i>Accessory</i>	Heater & Sunshield	
<i>Construction</i>	Aluminium	
<i>Dimension</i>	CH-912L- 470mm(L) x 142mm(W) x 135mm(H) CH-912M- 410mm(L) x 110mm (W) x 111.5mm(H)	
<i>Power Source</i>	AC-24V-AC240V	
<i>Weight</i>	CH-912L-4.5Kg CH-912M-4.0Kg	

CAMERA BRACKETS

CAMERA BRACKETS

Product No: GSD-MB804



Product No: GSD-MB805



Model	GSD-MB804	GSD-MB805
Maximum Load Capacity	10 Kgs	
Construction	Aluminium	
Dimension	285mm	
Weight	0.4kg	

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Product No: GSD-MB806S

Product No: GSD-806

Product No: GSD-MB807



Model	GSD-MB806S	GSD-MB806	GSD-MB807
Maximum Load Capacity	4kgs	4kgs	4kgs
Construction	ABS Plastic	ABS Plastic	ABS Plastic
Colour	Black or Beige	Black or Beige	Black or Beige
Dimension	120.5mm x 89Ø Base plate	160mm x 89Ø Base plate	180mm
Weight	0.2kg	0.25kg	0.25kg

CAMERA BRACKETS

CAMERA BRACKETS

Product No: GSD-MB808



<i>Maximum Load Capacity</i>	4kgs
<i>Construction</i>	ABS Plastic
<i>Colour</i>	Beige
<i>Dimension</i>	170mm x 90Ø Base plate
<i>Weight</i>	0.2kg

Product No: GSD-MB811



Product No: GSD-MB814



<i>Model</i>	<i>GSD-MB811</i>	<i>GSD-MB814</i>
<i>Maximum Load Capacity</i>	10kgs	10kgs
<i>Construction</i>	Iron	Aluminium
<i>Dimension</i>	290mm	226mm
<i>Weight</i>	0.75kg	0.45kg

Product No: GSD-MB848



<i>Maximum Load Capacity</i>	25kgs
<i>Construction</i>	Aluminium
<i>Dimension</i>	480(L) x 138(W) x 100(H) mm
<i>Weight</i>	2.5kg

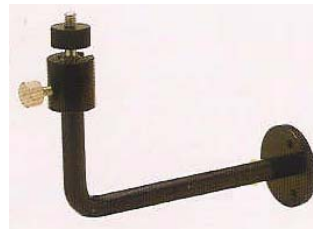
CAMERA BRACKETS

CAMERA BRACKETS

Product No: GSD-MB812



Product No: GSD-MB813



Model	GSD-MB812	GSD-MB813
Maximum Load Capacity	3kgs	5kgs
Construction	Aluminium	
Colour	Black or Beige	
Dimension	126mm x 45Ø Base plate	240mm x 45Ø Base plate
Weight	0.2kg	0.3kg

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Product No: GSD-MB820



Maximum Load Capacity	10kgs
Construction	Aluminium
Dimension	214(L) x 80(W) x 73 (H) mm
Weight	450g

SUPER WIDE DYNAMIC COLOUR CAMERA

SUPER WIDE DYNAMIC COLOUR CAMERA

Product No: GSD-SN586C



FEATURES:

- **1/3" DPS (Digital Pixel System) Wide Dynamic Sensor**
Provides a wider dynamic range than conventional WDR camera. The DPS sensor can quickly and precisely responds the lighting condition changes so as to achieve high-quality, fully exposed images
- **High Resolution of 480 TVL**
Horizontal resolution 480 TVL, vertical resolution 400 TVL, captures sharp and crisp images
- **Day/Night Colour Camera**
Auto-switch from colour at daytime to B/W at night time. Normal mode: 1.0Lux/F1.2, Low light mode: 0.08Lux/F1.2
- **Super Wide Dynamic Range**
Multi-sampling every pixel in a single capture frame. The imaging system determines the optimal time to sample and store the pixel information before the pixel is saturated and can no longer hold additional charge
- **OSD Menu and Programmable setting**
Convenient OSD operation, the following settings can be adjusted:
Vide format, auto-iris lens, Automatic White Balance (AWB/Indoor/Outdoor/Manual/Auto Wide Dynamic), Automatic Electronic Shutter, Automatic Gain Control, Wide Dynamic Range, Back Light Compensation, Title, OSD mode, Brightness/Sharpness, Low Light mode, B/W mode and Mirror function
- **Excellent picture quality**
Specially designed for super wide dynamic range, suitable for application in scenes with sharp lightness contrast while requiring high image quality. It is an ideal replacement of conventional camera. Recommended placed of application: Highway, Toll gate, Railway station, Ports, Squares, Communities, Entrance and exit of public sites

SUPER WIDE DYNAMIC COLOUR CAMERA

SUPER WIDE DYNAMIC COLOUR CAMERA

Product No: GSD-SN586C

SPECIFICATION:

	<i>GSD-SN586C</i>
<i>Image Sensor</i>	1/3" DPS (Digital Pixel System)
<i>Signal System</i>	PAL Colour System
<i>Effective Pixels</i>	PAL: 720 (H) x540 (V)
<i>Resolution</i>	480 TV Lines
<i>Minimum Illumination</i>	1.0 Lux/F1.2: 0.08 Lux/F1.2 (Slow Shutter)
<i>S/N Ratio</i>	More than 48dB
<i>Dynamic Range</i>	95dB Typical, 120dB maximum
<i>Control Method</i>	OSD Function Control
<i>Electronic Shutter</i>	Yes
<i>White Balance</i>	Yes
<i>Auto White Balance Range</i>	2000K to 10000K
<i>BLC</i>	Yes
<i>AGC</i>	Yes
<i>Day/Night Function</i>	ON/OFF
<i>Gamma Correction</i>	0.45
<i>Sync mode</i>	INT/L.L.
<i>Lens Mount</i>	CS/C with Ring
<i>Auto Iris</i>	DC/VIDEO
<i>Video Output</i>	1.0Vp-p, 75Ohm, sync negative polarity
<i>Power Supply</i>	24VAC/12VDC
<i>Power Consumption</i>	4.5W (MAX)
<i>Operating Temperature</i>	-10°C~+50°C RH95% MAX
<i>Dimension</i>	62 (W) x 60 (H) x 121 (D) mm
<i>Camera Mount</i>	2 1/4" 20UNC (bottom & top)
<i>Weight</i>	500g

SUPER HIGH RESOLUTION COLOUR CAMERA

SUPER HIGH RESOLUTION COLOUR CAMERA

Product No: GSD-SN580C

Product No: GSD-SN580DC

Product No: GSD-SNVP580C



FEATURES:

- 1/3" SONY CCD, adopt advanced Digital Signal Processor (DSP) technology
- 520 TVL Super High Horizontal Resolution
- Minimum Illumination: 0.5 Lux/F1.2
- S/N Ratio: More than 50dB
- Back Light Compensation
- Electronic Shutter
- AGC & AWB
- DC/VIDEO Auto Iris
- Audio optional
- Latest Industrialised Design

SPECIFICATION:

Model	GSD-SN580C	GSD-SN580DC	GSD-SNVP580C
Image Pick up device	1/3" SONY CCD		
Signal System	PAL Colour System		
No of effective pixels	PAL: 752(H) x 582(V)		
Horizontal Resolution	520 TV Lines		
Sensitivity	0.5Lux/F1.2		
S/N Ratio	More than 50dB		
Electronic Shutter	1/50 – 1/100,000SEC (PAL)		
BLC	ON/OFF		
AWB	Automatic		
AGC	ON/OFF	Automatic	
Auto Iris	DC/VIDEO		
Gamma Correction	>0.45		
Video Output	BNC 1.0Vp-p 75Ω		
Synch Mode	LL/INT	INT	
Lens Mount	CS/C with Ring	Board Lens, F=2.8, 3.6, 6, 8, 12mm (Optional)	CS Lens F=4, 6, 8, 12, 16mm (Optional)
Microphone	Optional		
Operation Temperature	-10°C ~ +50°C RH95% MAX		
Power Consumption	5W (MAX)	3W (MAX)	3W (MAX)
Dimension	62(W) x 60(H) x 121(D) mm	Φ 114x87mm	Φ 138x92mm
Weight	500g	220g	500g

HIGH RESOLUTION COLOUR CAMERA

HIGH RESOLUTION COLOUR CAMERA

Product No: GSD-SN485C

FEATURES:

- 1/3"IT CCD, high resolution 480TVL
- 0.8 lux/F1.2
- S/N ratio over 48dB
- BLC, ES, AGC, AWB
- DC/Video driver auto-iris lens supported
- Audio optional
- Latest industrialised design.
- Adopt advanced DSP technology that provides higher quality picture and more advance functions.
- Adopt high quality 1/3" IT CCD, provides not only sharp fresh picture, but also greatly improved sensitivity. Provide high contrast, high definition picture even in extreme darkness.
- Distinctive appearance, the body and lens seem to flow into each other, like one object rather than two, make the camera the perfect combination: discrete yet aesthetically pleasing
- Designed especially for security surveillance use, the smart choice for a surveillance system.



SPECIFICATION:

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<i>Image Pick-Up Device</i>	1/3" IT CCD
<i>Signal System</i>	PAL system
<i>Horizontal Resolution</i>	480lines
<i>Minimum Illumination</i>	0.8 Lux/F1.6
<i>S/N ratio</i>	More than 48dB
<i>Electronic Shutter</i>	1/50-1/100,000sec(PAL)
<i>BLC</i>	ON/OFF
<i>AWB/AGC</i>	ON/OFF
<i>Gamma Correction</i>	0.45
<i>Video Output</i>	BNC 1.0Vp-p, 75 Ohm
<i>Sync Mode</i>	LL/NT
<i>Lens Type</i>	CS/C with Ring
<i>Microphone</i>	Optional
<i>Power Source</i>	AC24V / DC12V
<i>Power Consumption</i>	5W (max)
<i>Dimensions</i>	121 x 62 x 60mm
<i>Weight</i>	500g

DAY/NIGHT HIGH RESOLUTION COLOUR CAMERA

DAY/NIGHT HIGH RESOLUTION COLOUR CAMERA

Product No: GSD-SN468C

FEATURES:

- 1/3" SONY Ex-view IT CCD
- High Resolution 480 TVL
- 0.02Lux/F1.2 0Lux with IR LED
- Automatically converts from Color mode to B/W mode
- S/N Ration 48db
- BLC, ES, AGC, AWB
- Video/DC driver auto-iris lens supported
- Audio optional
- Adopt advanced DSP technology that provides higher quality picture and more advance functions. Adopt high sensitivity 1/3"SONY Ex-view IT CCD and special Red Remote CTO filter providing a 2 in 1 camera with real colorful image at day and high sensitivity B/W image at night, and also greatly improved sensitivity. Provide high contrast, high S/N ratio. Perfect choice for a surveillance system.
- Designed especially for D/N surveillance use such as Entry & Exit of Bank, Treasury, ATM, Road, Station, Port, Square, and Warehouse.



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SPECIFICATION:

<i>Image Pick-Up Device</i>	1/3" Ex/view IT CCD (SONY)
<i>Signal System</i>	PAL colour system
<i>Horizontal Resolution</i>	480lines
<i>Minimum Illumination</i>	0.02Lux/F1.2 0 Lux with IR
<i>S/N ratio</i>	More than 48dB
<i>White Balance</i>	Automatic
<i>BLC</i>	ON/OFF
<i>AWB/AGC</i>	ON/OFF
<i>Flickerless</i>	ON/OFF
<i>Gamma Correction</i>	0.45
<i>Video Output</i>	1.0Vp-p, 75 Ohm, sync negative polarity
<i>Sync Mode</i>	INT/L.L.
<i>Lens Type</i>	CS/C with Ring
<i>Power Source</i>	24VAC / 12VDC AC90V – 240V (option)
<i>Power Consumption</i>	5W (max)
<i>Dimensions</i>	62 x 60 x 120mm
<i>Weight</i>	500g

INFRA-RED ILLUMINATORS

INFRA-RED ILLUMINATORS

Product No: GSD-IR10



Model	GSD-IR10
Input Voltage	DC 12V, 450mA (+/-10%)
Output Voltage	DC 12V
Distance	10mtrs (The distance base on average equipment)
H.V. Angle	70°
Power Consumption	2.0 Watts
Power On	CDS Auto Control
LED	28 unit Infra-red LED
Window	39mm Ø Heat- Resisting Glass
Status	Under 10 lux by CDS
Wave	840nm
Water Resistant	IP 57
Construction	Aluminium with original anodized finish
Operation Temperature	-20°C to +60°C
Dimension (mm)	49 Ø x 60(L) mm
Weight	175g (0.39lb)

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Product No: GSD-IR100

Product No: GSD-IR120



Model	GSD-IR100	GSD-IR120
Operating Distance	100 Metres	120 Metres
Beam Spread (Flood Type)	30°	10°
Power Consumption	250W	
Power On	CDS Auto Control	
Bulb	Halogen Lamp	
Maximum Bulb Temperature	200°C	
Built In Filter	840nm	
Water Resistant	IP55	
Construction	Aluminium, with off white or black baked enamel finish	
Input Voltage	AC110V	
Operating Temperature	-20 to 60°C	
Dimension	158 Ø x 310mm	
Weight	2.7Kgs.	

INFRA-RED ILLUMINATORS

INFRA-RED ILLUMINATORS



Product No: GSD-IR15



Product No: GSD-IR20
Product No: GSD-IR40



Product No: GSD-IR60
Product No: GSD-IR80

SPECIFICATION:

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Model	GSD-IR15	GSD-IR20	GSD-IR40	GSD-IR60	GSD-IR80
Operating Distance	Over 15mtrs	Over 20mtrs	Over 40mtrs	Over 60mtrs	Over 80mtrs
Beam Spread (Flood Type)		30°	10°	30°	12°
Power Consumption	30 Watts (Low Power)	50 Watts (Low Power)	50 Watts (Low Power)	120 Watts (Medium Power)	
Power On	CDS Auto Control				
Bulb		Halogen lamp	Halogen lamp		
Maximum Bulb Temperature		200°C	200°C		
Horizontal View Angle	70°				
LED	49 unit LED				
Built in Filter	840nm				
Water Resistant	IP55				
Construction	Aluminium, with off-white or black baked enamel fish				
Input Voltage	AC117V/220V, D C12V	AC117V/220V			
Operating Temperature	-20°C to +60°C				
Dimensions	105Ø x 170(L) mm	105Ø x 250(L) mm	105Ø x 250(L) mm	158Ø x 310(L) mm	
Weight	0.6Kg. (1.32lb)	1.25 Kg. (2.75 lbs)	1.25 Kg. (2.75 lbs)	2.7Kg. (5.95 lbs)	

CCTV LENSES

CCTV LENSES

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					1/3"	1/2"	2/3"	1"		
GSD-TTSH0234	2.3	1.4-C	CS	1/3	111.9	---	---	---	76.9	
GSD-TTSN0234	2.3	1.4	CS	1/3	111.9	---	---	---	78.6	Fixed Iris
GSD-TTSH0284	2.8	1.4-C	CS	1/3	95.6	---	---	---	54.5	
GSD-TTSN0284	2.8	1.4	CS	1/3	95.6	---	---	---	58.4	Fixed Iris
GSD-TTSH0412-2	4	1.2C	CS	1/3	65.1	---	---	---	50.4	
GSD-TTSN0412-2	4	1.2	CS	1/3	65.1	---	---	---	54.2	Fixed Iris
GSD-TTSH0612	6	1.2-C	CS	1/3	48.1	---	---	---	41.7	
GSD-TTSN0612	6	1.2	CS	1/3	48.1	---	---	---	45.6	Fixed Iris
GSD-TTSH0812	8	1.2-C	CS	1/3	36.5	---	---	---	41.1	
GSD-TTSN0812	8	1.2	CS	1/3	36.5	---	---	---	45.0	Fixed Iris
GSD-TTSH1616	16	1.6-C	CS	1/3	17.6	---	---	---	39.5	
GSD-HTCH0354	3.5	1.4-C	C	1/2	67.4	94.6	---	---	93.4	Fixed Focus
GSD-HTCH0484	4.8	1.4-C	C	1/2	52.2	69.4	---	---	87.5	Fixed Focus
GSD-HTCH0612	6	1.2-C	C	1/2	42.3	57.1	---	---	108.5	
GSD-HTCH1212	12	1.2-C	C	1/2	22.1	29.7	---	---	74.5	
GSD-MTCH0813-1	8	1.3-C	C	2/3	33.4	43.6	59.0	---	136.0	
GSD-MTCH0813-3	8	1.3	C	2/3	32.6	42.6	58.8	---	47.0	
GSD-MTCH0813-4	8	1.3-C	C	2/3	32.4	42.4	59.2	---	72.5	
GSD-MTCN0813	8	1.3	C	2/3	32.6	42.6	59.2	---	44.0	Fixed Iris
GSD-MTCH1616	16	1.6-C	C	2/3	17.1	22.6	30.8	---	63.0	
GSD-MTCN1616	16	1.6	C	2/3	17.1	22.6	30.8	---	65.0	Fixed Iris
GSD-MTCH1614	16	1.4-C	C	2/3	16.6	22.0	30.3	---	57.4	
GSD-VTCH1253	12.5	1.3-C	C	1	21.7	29.0	39.4	55.2	180.0	
GSD-VTCH2514	25	1.4-C	C	1	10.6	14.2	19.4	27.8	81.0	
GSD-VTCH5013	50	1.3-C	C	1	5.4	7.2	9.9	14.2	380.0	
GSD-VTCH5018	50	1.8-C	C	1	5.5	7.3	10.1	14.8	145.0	
GSD-VTCH7513	75	1.3-C	C	1	3.7	4.9	6.8	9.8	376.0	

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					1/3"	1/2"	2/3"	1"		
GSD-TTSG0234	2.3	1.4-360	CS	1/3	111.9	---	---	---	76.5	Video Drive
GSD-TTSD0234J	2.3	1.4-360	CS	1/3	111.9	---	---	---	75.4	Direct drive with plug
GSD-TTSG0284	2.8	1.4-360	CS	1/3	95.6	---	---	---	63.3	Video Drive
GSD-TTSD0284J	2.8	1.4-360	CS	1/3	95.6	---	---	---	63.3	Direct drive with plug

CCTV LENSES

CCTV LENSES

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					1/3"	1/2"	2/3"	1"		
GSD-TTSG0412-2	4	1.2-360	CS	1/3	65.1	---	---	---	64.4	Video Drive
GSD-TTSD0412-2J	4	1.2-360	CS	1/3	65.1	---	---	---	64.4	Direct drive with plug
GSD-TTSG0612	6	1.2-360	CS	1/3	48.1	---	---	---	48.7	Video Drive
GSD-TTSD0612J	6	1.2-360	CS	1/3	48.1	---	---	---	49.8	Direct drive with plug
GSD-TTSG0812	8	1.2-360	CS	1/3	36.5	---	---	---	48.4	Video drive
GSD-TTSD0812J	8	1.2-360	CS	1/3	36.5	---	---	---	48.5	Direct drive with plug
GSD-TTSG1616	16	1.5-360	CS	1/3	17.6	---	---	---	47.5	Video Drive
GSD-TTSD1616J	16	1.6-360	CS	1/3	17.6	---	---	---	47.5	Direct drive with plug
GSD-TTSG0275	2.8	0.75-360	CS	1/3	97.2	---	---	---	125.8	Video drive/ Fixed focus
GSD-TTSD0275J	2.8	0.75-360	CS	1/3	97.2	---	---	---	121.0	Direct drive with plug/ Fixed focus
GSD-TTSG0475	4	0.75-360	CS	1/3	70.2	---	---	---	132.2	Video drive
GSD-TTSD0475J	4	0.75-360	CS	1/3	70.2	---	---	---	127.0	Direct drive with plug
GSD-TTSG0675	6	0.75-360	CS	1/3	45.8	---	---	---	127.6	Video drive
GSD-TTSD0675J	6	0.75-360	CS	1/3	45.8	---	---	---	122.5	Direct drive with plug
GSD-TTSG0875	8	0.75-360	CS	1/3	34.5	---	---	---	123.5	Video drive
GSD-TTSD0875J	8	0.75-360	CS	1/3	34.5	---	---	---	118.5	Direct drive with plug
GSD-HTCG0354	3.5	1.4-64	C	1/2	67.4	94.6	---	---	108.5	Video drive
GSD-HTCD0354J	3.5	1.4-64	C	1/2	67.4	94.6	---	---	108.5	Direct drive with plug
GSD-HTCG0354	3.5	1.4-360	C	1/2	67.4	94.6	---	---	108.5	Video drive

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Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					1/3"	1/2"	2/3"	1"		
GSD-HTCD0354J	3.5	1.4-360	C	1/2	67.4	94.6°	---	---	108.5	Direct drive with plug
GSD-HTCG0614	6	1.4-64	C	1/2	42.1	57.2°	---	---	107.5	Video drive
GSD-HTCD0614J	6	1.4-64	C	1/2	42.1	57.2°	---	---	107.5	Direct drive with plug
GSD-HTCG0614	6	1.4-360	C	1/2	42.1	57.2°	---	---	107.5	Video drive
GSD-HTCD0614J	6	1.4-360	C	1/2	42.1	57.2°	---	---	107.5	Direct drive with plug
GSD-HTCG1214	12	1.4-64	C	1/2	21.9	29.6°	---	---	82.5	Video drive

CCTV LENSES

CCTV LENSES

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					1/3"	1/2"	2/3"	1"		
GSD-HTCD1214J	12	1.4-64	C	1/2	21.9	29.6	---	---	82.5	Direct drive with plug
GSD-HTCG1214	12	1.4-360	C	1/2	21.9	29.6	---	---	82.5	Video Drive
GSD-HTCD1214J	12	1.4-360	C	1/2	21.9	29.6	---	---	82.5	Direct drive with plug
GSD-MTCR0813	8	1.3-360	C	2/3	33.4	43.6	59.0	---	169.0	Video drive
GSD-MTCR1613	16	1.3-360	C	2/3	17.1	22.6	31.3	---	167.0	Video drive
GSD-VTCR1253	12.5	1.3-360	C	1	21.7	29.0	39.4	55.2	186.0	Video drive
GSD-VTCR2513	25	1.3-360	C	1	11.0	14.6	20.0	29.5	171.0	Video drive
GSD-VTCR5018	50	1.8-360	C	1	5.5	7.3	10.1	14.8	168.0	Video drive

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					W/T	1/3"	1/2"	2/3"		
GSD-TVSH0358-2	3.5-8	1.4-C	CS	1/3	Wide Tele	73.8 35.0	---	---	89.8	Manual
GSD-TVSG0358-2	3.5-8	1.4-360	CS	1/3	Wide Tele	73.8 35.0	---	---	77.9	Video drive
GSD-TVSD0358-2J	3.5-8	1.4-360	CS	1/3	Wide Tele	73.8 35.0	---	---	76.6	Direct drive with plug
GSD-TVSH5533	5.5-33	1.6-C	CS	1/3	Wide Tele	50.1 8.7	---	---	148.5	Manual
GSD-TVSG5533	5.5-33	1.6-360	CS	1/3	Wide Tele	50.1 8.7	---	---	146.0	Video drive
GSD-TVSD5533J	5.5-33	1.6-360	CS	1/3	Wide Tele	50.1 8.7	---	---	144.5	Direct drive with plug
GSD-TVSH5533(X3)	16.5-99	4.8-360	C	1/3	Wide Tele	17.6 3.1	---	---	174.9	Manual
GSD-TVSH0770	7.0-70	1.8-C	CS	1/3	Wide Tele	40.1 4.2	---	---	199.5	Manual
GSD-TVSG0770	7.0-70	1.8-360	CS	1/3	Wide Tele	40.1 4.2	---	---	205.0	Video drive
GSD-TVSD0770J	7.0-70	1.8-360	CS	1/3	Wide Tele	40.1 4.2	---	---	201.5	Direct drive with plug

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Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View				Weight (g)	Remarks
					W/T	1/3"	1/2"	2/3"		
GSD-HZCH08551	8.5-51	1.2-C	C	1/2	Wide Tele	31.3 5.5	41.2 7.2	---	440.0	---
GSD-MZCH12575	12.5-75	1.8-C	C	2/3	Wide Tele	21.2 3.6	28.3 4.8	38.7 6.6	368.0	---
GSD-MZCH11110	11-110	1.8-C	C	2/3	Wide Tele	24.2 2.6	32.4 3.3	45.1 4.6	724.0	---

CCTV LENSES

CCTV LENSES

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View					Weight (g)
					W/T	1/3"	1/2"	2/3"	1"	
GSD-TZSG06036	6-36	1.4-360	CS	1/3	Wide Tele	43.6 7.7				295.0
GSD-TZSD06036	6-36	1.4-360	CS	1/3	Wide Tele	43.6 7.7				295.0
GSD-TZSM06036	6-36	1.4-C	CS	1/3	Wide Tele	43.6 7.7				360.0
GSD-TZSA06036	6-36	1.4-360	CS	1/3	Wide Tele	43.6 7.7				345.0
GSD-TZSA06036P	6-36	1.4-360	CS	1/3	Wide Tele	43.6 7.7				364.0
GSD-TZSM06060	6-60	1.4-C	CS	1/3	Wide Tele	43.4 4.7				461.5
GSD-TZSA06060	6-60	1.4-360	CS	1/3	Wide Tele	43.4 4.7				485.6
GSD-TZSA06060P	6-60	1.4-360	CS	1/3	Wide Tele	43.4 4.7				505.8
GSD-TZSG06072	6-72	1.2-360	CS	1/3	Wide Tele	43.7 4.0				570.0
GSD-TZSD06072	6-72	1.2-360	CS	1/3	Wide Tele	43.7 4.0				570.0
GSD-TZSM06072	6-72	1.2	CS	1/3	Wide Tele	43.7 4.0				620.0
GSD-TZSA06072	6-72	1.2-360	CS	1/3	Wide Tele	43.7 4.0				640.0
GSD-TZSA06072P	6-72	1.2-360	CS	1/3	Wide Tele	43.7 4.0				660.0
GSD-HZCM08551	8.5-51	1.2-C	C	1/2	Wide Tele	31.3 5.5	41.2 7.2			590.0
GSD-HZCA08551	8.5-51	1.2-360	C	1/2	Wide Tele	31.3 5.5	41.2 7.2			610.0
GSD-HZCA08551P	8.5-51	1.2-360	C	1/2	Wide Tele	31.3 5.5	41.2 7.2			630.0
GSD-HZCM08080	8-80	1.2-C	C	1/2	Wide Tele	32.7 3.5	42.9 4.6			910.0
GSD-HZCA08080	8-80	1.2-360	C	1/2	Wide Tele	32.7 3.5	42.9 4.6			930.0
GSD-HZCA08080P	8-80	1.2-360	C	1/2	Wide Tele	32.7 3.5	42.9 4.6			950.0
GSD-HZCG10200	10-200	1.8-255	C	1/2	Wide Tele	26.8 1.4	35.7 1.9			990.0
GSD-HZCD10200	10-200	1.8-255	C	1/2	Wide Tele	26.8 1.4	35.7 1.9			990.0
GSD-HZCM10200	10-200	1.8-C	C	1/2	Wide Tele	26.8 1.4	35.7 1.9			860.0
GSD-HZCA10200	10-200	1.8-360	C	1/2	Wide Tele	26.8 1.4	35.7 1.9			880.0
GSD-HZCA10200P	10-200	1.8-360	C	1/2	Wide Tele	26.8 1.4	35.7 1.9			920.0
GSD-HZCG12240	12-240	2.2-360	C	1/2	Wide Tele	22.6 1.2	29.9 1.5			970.0
GSD-HZCD12240	12-240	2.2-360	C	1/2	Wide Tele	22.6 1.2	29.9 1.5			970.0
GSD-MZCM12575	12.5-75	1.8-C	C	2/3	Wide Tele	21.2 2.6	28.3 4.8	38.7 6.6		740.0

CCTV LENSES

CCTV LENSES

Model Number	Focal Length (mm)	Iris Range	Mount	Image Format	Horizontal Field of View					Weight (g)
					W/T	1/3"	1/2"	2/3"	1"	
GSD-MZCA12575	12.5-75	1.8-360	C	2/3	Wide Tele	21.2 3.6	28.3 4.8	38.7 6.6		760.0
GSD-MZCA12575P	12.5-75	1.8-360	C	2/3	Wide Tele	21.2 3.6	28.3 4.8	38.7 6.6		800.0
GSD-MZCM11110	11-110	1.8-C	C	2/3	Wide Tele	24.2 2.6	32.4 3.3	45.1 4.6		1200.0
GSD-MZCA11110	11-110	1.8-360	C	2/3	Wide Tele	24.2 2.6	32.4 3.3	45.1 4.6		1200.0
GSD-MZCA11110P	11-110	1.8-360	C	2/3	Wide Tele	24.2 2.6	32.4 3.3	45.1 4.6		1260.0
GSD-VZCM16160	16-160	2.0-C	C	1	Wide Tele	16.7 1.8	22.1 2.4	33.0 3.3	4.34 4.6	1320.0
GSD-VZCA16160	16-160	2.0-360	C	1	Wide Tele	16.7 1.8	22.1 2.4	33.0 3.3	4.34 4.6	1340.0
GSD-VZCA16160P	16-160	2.0-360	C	1	Wide Tele	16.7 1.8	22.1 2.4	33.0 3.3	4.34 4.6	1380.0

VIDEO TEST KIT

VIDEO TEST KIT

Product No: GSD-CLSM411 - 4" TFT Monitor Service Kit



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SPECIFICATION:

<i>Display Size</i>	4"
<i>Active Area</i>	82.1 (W) x 61.8 (H) mm
<i>Resolution Contrast Ratio</i>	480 x 234 (high) 150:1
<i>Brightness</i>	250cd/m2
<i>Video System</i>	PAL
<i>Power Source</i>	DC12V 500mA
<i>Video Input</i>	1V p-p 75 ohm, RCA x 2
<i>Video Output</i>	1V p-p 75 ohm x 1
<i>Audio Input</i>	1V p-p 10k ohm x 1
<i>Power Consumption</i>	5W max
<i>Storage Temperature</i>	-20°C ~ 80°C
<i>Operating Temperature</i>	0°C ~ 60°C
<i>Dimension</i>	139.0 x 115.0 x 36.0mm
<i>Accessory Included</i>	Rechargeable battery, carrying case, RCA to BNC plug

PROFESSIONAL CCTV LCD DISPLAY MONITOR

PROFESSIONAL CCTV LCD DISPLAY MONITOR

Product No: GSD-CLM15AV - 15AV TFT LCD TV Monitor For Security

FEATURES:

- Super quality image using TV level A grade panel
- Sharp picture definition
- High contrast 500:1 & brightness 450 cd/m2
- Good response time
- PIP integrated



SPECIFICATION:

LCD Type	15" TFT active matrix colour panel
Pixel Pitch	0.297mm
Display Area	15.0" diagonal, 304.1 (H) x 228.1 (V) mm
Resolution	1024 x 768 max
Brightness	450 cd/m2
Contrast Ratio	500:1
Display Colours	16.7 million
View Angle	120° horizontal / 110° vertical
Response Time	16.6ms (Tr + Tf)
Scanning Freq. Horizontal Syn.	28.0 KHz – 63.0KHz
Vertical Synchronisations	55.0Hz – 78.0KHz
Input Connector Digital	15 pin D-sub for VGA
Analogue	RCA x 3 (audio in x 2, video in x 1)
OSD Control	Auto config, brightness, contrast, colour, H position, V position, phase, clock, OSD position, recall input source, information
OSD Language	English, traditional Chinese, simplified Chinese, Deutsch, Espanol, Francais, Italiano, Japanese
Regulations Safety	CE / FCC
Power Supply	Universal switch mode power 100VAC ~ 240VAC, 50 / 60Hz
Power Consumption	33W max
Weight	2.6kg
Dimensions (W x H x D)	365 x 339 x 181 mm

PROFESSIONAL CCTV LCD DISPLAY MONITOR

PROFESSIONAL CCTV LCD DISPLAY MONITOR

Product No: GSD-CLM17AV - 17AV TFT LCD TV Monitor For Security

FEATURES:

- Super quality image using TV level A grade panel
- Sharp picture definition
- High contrast 500:1 & brightness 450 cd/m2
- Good response time
- PIP integrated



SPECIFICATION:

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LCD Type	17.0" colour panel
Pixel Pitch	0.264mm
Display Area	17.0" diagonal, 337.9 (H) x 270.3 (V) mm
Resolution	1280 x 1024 max
Brightness	450 cd/m2
Contrast Ratio	500:1 typical
Display Colours	16.2 million
View Angle	160° (H), 120° (V)
Response Time	14ms (Tr + Tf)
Horizontal Synchronisations	30.0 KHz – 82.0KHz
Vertical Synchronisations	56.0Hz – 76.0Hz
Digital	15 pin D-Sub for VGA
Analogue	RCA x 3 (audio in x 2, video in x 1)
OSD Control	Auto config, brightness, contrast, colour, H position, V position, phase, clock, OSD position, recall input source, information
OSD Language	English, traditional Chinese, simplified Chinese, Deutsch, Espanol, Francais, Italiano, Japanese
Power Supply	Universal switch mode power 100VAC ~ 240VAC, 50 / 60Hz
Power Consumption	TBD
Weight	4.0kg
Dimensions (W x H x D)	487 x 315 x 174.3 mm

CCTV MONITOR

CCTV MONITOR

Product No: GSD-FVM9
 Product No: GSD-FVM12
 Product No: GSD-FVM14
 Product No: GSD-FVM15
 Product No: GSD-FVM20



SPECIFICATION:

Model	GSD-FVM9	GSD-FVM12	GSD-FVM14	GSD-FVM15	GSD-FVM20
Operation System	CCIR				
Scanning Frequency	15,625Hz +/- 400Hz				15,625Hz +/- 600Hz
Power Source	AC220V / 230V / 240V or switching power				AC195V ~ 265V 50Hz
Power Consumption	25W (max)	30W (max)	30W (max)	48W (max)	65W (max)
Picture Tube	9" diagonal	12" diagonal	14" diagonal	15" diagonal	20" diagonal
Input Signal	Comp. Video: 1.0 Vp-p (BNC)				
Input Impedance	Comp. Video: 75Ω/Hi (switchable)				
Video Output	Comp. Video: 1.0 Vp-p 75Ω, loop through (BNC)				
Resolution	Horizontal: 1000 TV lines				Horizontal: 800 TV lines
Linearity	Horizontal: 10%, vertical: 12%				
Audio Input	390m Vrms (BNC)				
Audio Power	0.5W/8ohm speaker		1.2W/8ohm speaker	0.5W/8ohm speaker	1.2W/8ohm speaker
Front Panel Control	Power Switch/Contrast/Brightness/H-hold/V-hold/volume				
Dimensions mm W x D x H	220 x 260 x 237	308 x 304 x 313	325 x 236 x 330	360 x 387 x 351	490 x 366 x 475
Weight N.W/G.W)	5.8kg / 6.4kg	8.9kg/9.9kg	9.8kg/10.8kg	11.0kg/13kg	19.4kg/21.6kg
Cabinet	Metal				
Temperature	Operation: - 10°C ~ +40°C (14°F ~ 104°F)				
Humidity	Operation: 30% ~ 80% (no condensation)				
Int'l Approval	UL, CSA, FCC, FDA, CE				

CCTV MONITOR

CCTV MONITOR

Product No: GSD-FVCM10
 Product No: GSD-FVCM14H (High Resolution)
 Product No: GSD-FVCM20



SPECIFICATION:

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Model	GSD-FVCM10	GSD-FVCM14H	GSD-FVCM20
Operation System	PAL		
Scanning Frequency	15,625Hz +/- 450Hz	15,625Hz +/- 600Hz	15,625Hz +/- 450Hz
Power Source	AC185V ~ 265V 50Hz	AC185V ~ 265V 50Hz	AC185V ~ 265V 50Hz
Power Consumption	40W (max)	60W (max)	80W (max)
Picture Tube	10" diagonal	14" diagonal	20" diagonal
Input Signal	Comp. 1.0 Vp-p (BNC)		
Input Impedance	Comp. Video: 75Ω/Hi switchable	Comp. Video: 75Ω/Hi switchable S-VHS: 75Comp. Video: 75Ω/Hi switchable	Comp. Video: 75Ω/Hi switchable
Video Output	Comp. Video: 1.0 Vp-p 75Ω, loop through (BNC)		
Resolution	350 TV lines	600 TV lines	500 TV lines
Linearity	Horizontal: 10%, vertical: 10%		
Audio Input	* Volume 390m Vrms (BNC)		
Audio Power	1.2W/8Ω speaker		
Front Panel Control	Power Switch/Contrast/Brightness/Colour/Tint/volume/Lo/Hi impedance switch (Y/C for GSD-FVCM14H)		
Dimensions mm W x D x H	260 x 293 x 252	360 x 387 x 351	490 x 450 x 475
Weight N.W/G.W)	7.6kg / 8.8kg	12.4kg / 14.4kg	23.5kg / 26.8kg
Cabinet	Metal		
Temperature	Operation: - 10°C ~ +40°C (14°F ~ 104°F)		
Humidity	Operation: 30% ~ 80% (no condensation)		
Int'l Approval	UL, CSA, FCC, FDA, CE (LVD)		

CCTV MONITOR

CCTV MONITOR

Product No: GSD-VMC14A-14" High Res colour monitor with W/Audio

Product No: GSD-VMC15A -15" High Res colour monitor with W/Audio

Product No: GSD-VMC17A-17" High Res colour monitor with W/Audio

Product No: GSD-VMC21A-21" Colour monitor with W/Audio



SPECIFICATION:

Model	GSD-VMC14A	GSD-VMC15A	GSD-VMC17A	GSD-VMC21A
Picture Tube	14 inch	15 inch, 0.28 Dot Pitch	17 inch, 0.28 Dot Pitch	21 inch, 0.7 Stripe Pitch
CRT Background Colour	Colour			
Power Source	96VAC-256VAC 50HZ/60HZ			
Power Consumption	48 Watts		50 Watts	75 Watts
Video Signal	0.5-2.0Vp-p Composite video, negative sync. Y: 1.0Vp-p, C: 0.7Vp-p			0.714Vp-p (Composite 1Vp-p) sync.
Input Impedance	75 ohms or high (switchable)			
Bandwidth	8 MHz			6 MHz
Resolution	520 TV Lines	600 TV Lines		520 TV Lines
Linearity	Horizontal: 10% Max. Vertical: 10%			
Operation System	PAL: 625 Lines, 50 Fields/Sec			
Front Control	Power On/Off: Rocker Switch Tact Switch Volume: Tact Switch			
Connections	Video (In/Out): BNC x 4 Y/C Input: 4 Pin Din Connector Audio (In/Out): RCA Jack x 4			
Audio Input Signal	10-150mVp-p			
Audio Amplifier	1W/8 ohm (Incl. Speaker)		0.5W/8 ohm (Incl. Speaker)	1W/8 ohm (Incl. Speaker)
Operation Temperature	-10°C to -55°C			
Dimension (WxDxH)	375.5 x 362 x 321mm	362 x 401 x 372mm	420 x 475 x 422mm	490 x 501.2 x 453 mm
Net/Gross Weight	13.0/15.0 Kgs.		25.5/26.5 Kgs.	

LCD MONITORS

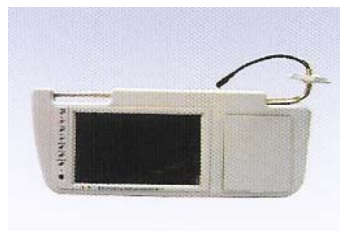
LCD MONITORS

Product No: GSD-SNLCD660

Product No: GSD-SNLCD710

6.6" High Resolution LCD Monitor

7" High Resolution Mobile LCD Monitor



FEATURES:

- High Light, high resolution TFT-LCD Monitor
- Back Light: cold cathode fluorescent lamp
- Lightness, colour, contrast adjustable
- Light and portability, elegant appearance, suit for family and car use, especially for sub-surveillance
- GSD-SNLCD710 1.Sun-shield panel design, can be easily installed and operated in vehicles
- Integrated TV receiver, can function as a TV set

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SPECIFICATION:

Model		GSD-SNLCD660	GSD-LCD710
	Size	6.6"(135 x 99mm)	7"(165 x 102mm)
Display Screen	Element	TFT LCD	TFT LCD
	Format	960(W) x 240 (H)=230400 DOTS	800(W) x 480 (H)=384000 DOTS
Back Light		Cold cathode fluorescent lamp	Cold cathode fluorescent lamp
Power Supply		DC12V	DC12V
Power Consumption		6W	10W
		Power input connecting wire	Power input connecting wire
Connection		Video input (RCA), video output (RCA)	Video1/Video2 input (RCA), Audio input (RCA)
		Power remote control wire	External antenna jack
Operation Temperature		+5°C ~ +40°C	+5°C ~ +40°C
Storage Temperature		-20°C ~ +60°C	-20°C ~ +60°C
Dimensions		172(W) x 131 (H) x 35.5 (D) mm	360(W) x 138 (H) x 21 (D) mm
Weight		500g	760g

MONITORS

MONITORS

Product No: GSD-CM10058NP



Product No: GSD-CM10070NP



Product No: GSD-CF10070NP



Product No: GSD-CF10102NP



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Product No: GSD-CH10070NP



Product No: GSD-CF30070NP



STAND ALONE MONITORS

STAND ALONE MONITORS

Product No: GSD-CM10058NP

Product No: GSD-CM10070NP

SPECIFICATION:

Model	GSD-CM10058NP	CM10-070NP
Screen Size (inch)	5.8	7.0
Panel Brand	TMD	AU
Aspect Ratio	16:9	16:9
Resolution	1200(H) 234 (V)	1140 (H) x 234 (V)
Contrast	300	300
Brightness	400	500
View Angle (Top)	30	40
View Angle (Bottom)	60	60
View Angle (Left)	60	60
View Angle (Right)	60	60
Auto Dimmer	Yes	N/A
Mirror	Yes	Yes
Safety	Yes	Yes
Display Mode	Full, Normal, Zoom	Wide, Full, Normal, Zoom
TV Stand	Yes	N/A
Wireless IR Transmission	2 Channel	N/A
Audio Output	Speaker	Speaker, Mono Phone Jack
Inputs	2 AV & 1 RGB	2 AV
OSD	English	English
Video System	PAL Auto Selection	PAL Auto Selection
Power	DC 11-16V	DC 11-16V
Power Consumption	10W 12V/0.84A	10W 12V/0.84A
Remote Controller	Yes	Yes
T (operation) C	-20 ~ + 70	-20 ~ +80
T (storage) C	-30 ~ +80	-30 ~ +85
RH (operation) %	10% ~ 90%	10% ~ 90%
RH (storage) %	10% ~ 90%	10% ~ 90%
Net Weight- Monitor	320g	360g

FLIP DOWN MONITORS

FLIP DOWN MONITORS

Product No: GSD-CF10070NP

Product No: GSD-CF10102NP

SPECIFICATION:

Model	GSD-CF10070NP	GSD-CF10102NP
Screen Size (inch)	7.0	10.2
Panel Brand	AU	INNOLUX
Aspect Ratio	16:9	16:9
Resolution	1440(H) x 234(V)	2400(H) x 480 (V)
Contrast	300	300
Brightness	500	400
View Angle (Top)	40	50
View Angle (Bottom)	60	60
View Angle (Left)	60	60
View Angle (Right)	60	60
Auto Dimmer	N/A	N/A
Mirror	N/A	N/A
Safety	N/A	N/A
Display Mode	Wide, Full, Normal, Zoom	Full, Normal
Swivel Mechanism	Yes	N/A
Wireless IR Transmission	2 Channels	2 Channels
Audio Output	Wireless Headphone	Wireless Headphone
Inputs	1 AV	2 AV/ 3 AV
OSD	English	English
Video System	PAL Auto Selection	PAL Auto Selection
Power	DC 11-16V	DC11-16V
Power Consumption	10W 12V/0.84A	12W 12V/1A
Remote Controller	Yes	Yes
T (operation) C	-20 ~ +80	-20 ~ +70
T (storage) C	-30 ~ +85	-30 ~ +85
RH (operation) %	10% ~ 90%	10% ~ 90%
RH (storage) %	10% ~ 90%	10% ~ 90%
Net Weight	741g	1600g
<u>Revolve Angle</u>	0~100	0~130
Dimensions (mm)	258.6(W) x 222.56(H) x 40.29(D)	302(W) x 219(H) x 47(D)

HEAD REST MONITORS

HEAD REST MONITORS

Product No: GSD-CH10070NP

Product No: GSD-CF30070NP

SPECIFICATION:

Model	GSD-CH10070NP	GSD-CH30070NP
Screen Size (inch)	7.0	7.0
Panel Brand	AU	INNOLUX
Aspect Ratio	16:9	16:9
Resolution	1140(H) x 234(V)	1140 (H) x 234 (V)
Contrast	300	300
Brightness	500	400 TYP
View Angle (Top)	40	40
View Angle (Bottom)	60	60
View Angle (Left)	60	60
View Angle (Right)	60	60
Auto Dimmer	N/A	N/A
Mirror	Yes	Yes
Safety	Yes	N/A
Display Mode	Wide, Full, Normal, Zoom	Full, Normal
TV Stand	N/A	N/A
Wireless IR Transmission	N/A	N/A
Audio Output	Speaker, Mono Phone Jack	Speaker, Mono Phone Jack
Inputs	2 AV	1 AV
OSD	English	English
Video System	PAL Auto Selection	PAL Auto Selection
Power	DC-11-16V	DC 12V + 10%
Power Consumption	10W 12V/0.84A	10W 12V/0.84A
Remote Controller	Yes	Yes
T (operation) C	-20 ~ +80	-20 ~ +70
T (storage) C	-30 ~ +85	-30 ~ + 85
RH (operation) %	10% ~ 90%	10% ~ 90%
RH (storage) %	10% ~ 90%	10% ~ 90%
Net Weight- Monitor	360g	360g
Net Weight- Stand	170g	170g
Net Weight- L Prop	20g	20g
Dimensions (mm)- Moni- tor	181.7 (W) x 116.66 (H) x 29.5 (D)	181.7 (W) x 116.66 (H) x 29.5 (D)

21" COLOUR MONITOR

21" COLOUR MONITOR

Product No: GSD-SNCM2110

21" Colour Monitor

FEATURES:

- 21" flat square tube, high resolution 550 line (y/c)
- PAL/NTSC automatic selectable
- On screen display (OSD)
- Universal power source;
- Composite video signal : 2 input, 2 output with high/low impedance switchable
- S-VHS video signal: 1 input, 1 output with high/low impedance switchable
- Audio on signal: 2 input, 2 output
- Built in speaker, max RMS power of 1W
- Latest I C channel control circuit
- Black electric level expansion circuits and image definition enhance circuits improve picture contrast and sharpness
- Dimensions: 500(D) x 490 (W) x 460 (H) mm



SPECIFICATION:

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Model		GSD-SNCM2110
	Tube	21"
Picture Tube	Phosphor	P22
	In-Line	0.71mm stripe
	Deflection	90° angle
Horizontal Resolution		More than 550 lines
Scanning System		NTSC/PAL automatic selectable
Video In/Out	Composite A/B	PAL composite video: 1.0 Vp-p
Audio In-Out		1W
Connection		Video A/B in/out: BNC connector x4 with termination switch Audio in/out: RCA phone connector x2
Linearity		Horizontal: 10% max, vertical: 10% max
Ambient Temperature		0°C - + 40°C
Ambient Humidity		10% - 90%
Power Source		AC110 – 240AC, 50Hz/60Hz (universal power)
Power Consumption		75W
Dimensions (mm)		490 (W) X 60 (H) X 00(D) mm
Weight		23.5kg

STAND ALONE DVR

STAND ALONE DVR

Product No: GSD-HDV04C
Product No: GSD-HDV04CNF

FEATURES:

- Embedded network DVR
- CF drive for back up
- Removable hard drive
- Motion detection
- Alarm/motion email notification
- Real time display
- Support quad & multiplexer



SPECIFICATION:

Model	GSD-HDV04C	GSD-HDV04CNF
Resolution	Display: 720 x 576 (PAL) Record: 640 x 272 (PAL)	
Video Input	BNC x 4	
Video Looping Output	BNC x 4	
Monitor Output	BNC x 2	
Display Frame	PAL: 4 x 25 fields/sec.	
Recording Frame Rate (Quad)	PAL: Max. 25 fps	
Recording Frame Rate (MUX)	PAL: Max. 25/4 fps	
Storage Media	Max. 2 IDE Hard Disk (One removable)	
Image Format	M-JPEG	
Compress Rate	Low: 8K bytes/field Medium: 10K bytes/field High: 15K bytes/field Best: 20K bytes/field	
Recording Mode	Manual/Alarm/Schedule	
Playback Speed	Fast Forward x 2 x 4 x 6/Fast Reverse x 6 Frame by Frame Forward Playback	
On Screen Display and Set Up	Time/Date/Set Up Menu	
Alarm Input	X 4	
Relay Output	NO or NC Programme Contact x 1	
Password Control	One for HDD Format	
Event List	63 Events/Each HDD	
Motion Detection	Yes	
Ethernet	-N/A-	Yes
Back Up	-N/A-	Compact Flash
Buzzer	Yes	
Video Loss	Yes	
Network Interface	No	RJ45 (TCP/IP)
Power Input	AC90V-260V Input (60/50Hz)	
Dimensions (WxHxD)	432 x 55 x 321 (mm)	
Weight (Kg)	4.5	
Rack Mountable	"EIA 19" 1U Standard Mounting Rack"	
Operation Temperature	0°C to 40°C	

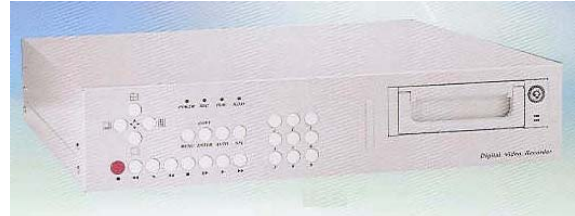
STAND ALONE DVR

STAND ALONE DVR

Product No: GSD-HDV09C
Product No: GSD-GSD-HDV09CNF

FEATURES:

- Embedded network DVR
- CF drive for back up
- Removable hard drive
- Motion detection
- Alarm/motion email notification
- Real time display
- 1 channel audio input/output
- Disk full warning & operation status



SPECIFICATION:

Model	GSD-HDV09C	GSD-HDV09CNF
Resolution	Display: 720 x 576 (PAL) Record: 720 x 288 (PAL)	
Video Input	BNC x 9	
Video Looping Output	BNC x 9	
Video Output	BNC x 1	
Call Monitor Output	BNC x 1	
Audio Input	RCA x 1	
Audio Output	RCA x 1	
Mode	Duplex	
Display Frame	PAL: 9 x 25 fps/sec	
Recording Rate	PAL: Up to 25 fps/sec	
Storage Media	Max. 2 IDE Hard Disk (One removable)	
Image Format	Wavelet	
Compress Rate	Low: 8K bytes/field, Medium: 10K bytes/field, High: 15K bytes/field, Best: 20K bytes/field	
Recording Mode	Manual/Alarm/Schedule	
Playback Speed	Fast Forward x 2 x 4 x 6 x 8, Frame by Frame Forward Playback	
On Screen Display and Set Up	Title/Time/Date/Set Up Menu	
Alarm Input	X 9	
Relay Output	NO or NC Programmable Contact x 1	
Serial Port RS232	RS232	
Password Control	Yes	
Motion Detection	Yes	
Ethernet	No	Yes
Back Up	-N/A-	Compact Flash
Video Loss	Yes	
Network Interface	-N/A-	RJ45 (TCP/IP)
Power Input	AC100V-240V Input (60/50HZ)	
Dimensions (WxHxD)	430 x 88 x 380 (mm)	
Weight (Kg)	9	
Rack Mountable	EIA 19 x 2U Standard Mounting Rack	
Operation Temperature	0°C to 40°C	

STAND ALONE DVR

STAND ALONE DVR

Product No: GSD-HDV16C
Product No: GSD-HDV16CN

FEATURES:

- Embedded network DVR
- CF drive for back up
- Removable hard drive
- Motion detection
- Alarm/motion email notification
- Real time display
- 1 channel audio input/output
- Disk full warning & operation status



SPECIFICATION:

Model	GSD-HDV16C	GSD-HDV16CN
Resolution	Display: 720 x 576 (PAL), Record: 720 x 288 (PAL)	
Video Input	BNC x 16	
Video Looping Output	BNC x 16	
Video Output	BNC x 1	
Call Monitor Output	BNC x 1	
Audio Input	RCA x 1	
Audio Output	RCA x 1	
Mode	Duplex	
Display Frame	PAL: 16 x 25 fps/sec.	
Recording Rate	PAL: Up to 25 fps/sec	
Storage Media	Max. 2 IDE Hard Disk (One removable)	
Image Format	Wavelet	
Compress Rate	Low: 8K bytes/field, Medium: 10K bytes/field, High: 15K bytes/field, Best: 20K bytes/field	
Recording Mode	Manual/Alarm/Schedule	
Playback Speed	Fast Forward x 2 x 4 x 6 x 8, Frame by Frame Forward Playback	
On Screen Display and Set Up	Title/Time/Date/Set Up Menu	
Alarm Input	X 16	
Relay Output	NO or NC Programmable Contact x 1	
Serial Port	RS232	
Password Control	Yes	
Motion Detection	Yes	
Ethernet	No	Yes
Back Up	-N/A-	Compact Flash
Video Loss	Yes	
Network Interface	-N/A-	RJ45 (TCP/IP)
Power Input	AC100V-240V Input (60/50HZ)	
Dimensions (WxHxD)	430 x 88 x 380 (mm)	
Weight (Kg)	11	
Rack Mountable	EIA 19 x 2U Standard Mounting Rack	
Operation Temperature	0°C ~ 40°C	

LINUX PC EMBEDDED NETWORK DVR

LINUX PC EMBEDDED NETWORK DVR

Product No: GSD-DR4C
Product No: GSD-DR8C
Product No: GSD-DR4C/R5
Product No: GSD-GSD-DR8C/R5



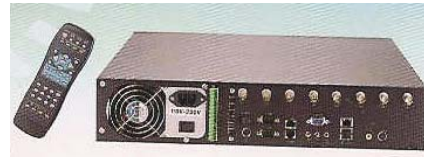
GSD-DR4C/GSD-DR8C



GSD-DR4C



DR4C/R5/GSD-DR8C/R5



GSD-DR8C

DESCRIPTION:

- Embedded network DVR & remote video server
- 4 or 8 video inputs, 1 audio input
- Removable hard drive
- CD-RW driver for back up (optional)
- Choice of hot swap raid 1—disk mirror (optional)
- Operation with IRDA controller for GUI
- PTZ controller
- Watchdog function for automatic failure recovery

HIGH VIDEO QUALITY & MULTIPLY COMPRESSION ALGORITHM:

- Up to 200:1 video compression
- Multiple video compression algorithm H:263, MJPEG, JPEG

FRIENDLY USER INTERFACE:

- Save Linux embedded OS & firmware in Flash memory
- Easy local/remote system configuration via IRDA or HTTP
- 1 line 16 characters LCD display
- Query recording data by date, time & triggered events
- Standard web browser as client application

FEATURES:

- Video & audio recording
- Up to 8 camera inputs, 1 channel audio input
- Up to 30FPS for each camera live view
- Record/local monitor/remote view/playback simultaneously
- Built in quad/multiplexer for local monitoring
- Support watermark for video clip verification
- Support NAS (network access storage) & USB external storage

NETWORK:

- Support dynamic IP
- Support built in web browser
- Built in web server

ALARM FUNCTION:

- Motion detection/event triggered recording/ schedule recording/pre-alarm
- Voice call, email & FTP server alarm, built in GPI/O for alarm control, 4 photo isolated inputs & 4 relay outputs

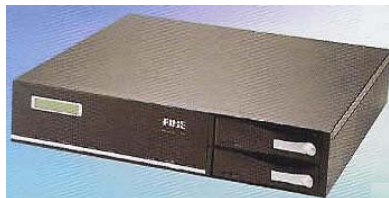
CUSTOMISATION:

- Support HTML file upload to flash card memory for home page customisation
- Built in FTP server for upload & download

LINUX PC EMBEDDED NETWORK DVR

LINUX PC EMBEDDED NETWORK DVR

Product No: GSD-DR4C
 Product No: GSD-DR8C
 Product No: GSD-DR4C/R5
 Product No: GSD-GSD-DR8C/R5



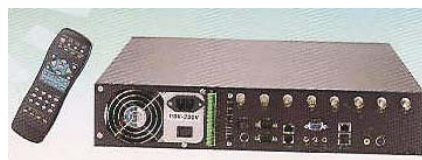
GSD-DR4C/GSD-DR8C



GSD-DR4C



DR4C/R5/GSD-DR8C/R5



GSD-DR8C

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SPECIFICATION:

Model	GSD-DR4C	GSD-DR8C
Video Standard	Support PAL Composite video, BNC connector	
Video Input	4	8
Audio Input	1	1
VGA Output	24 Bit True Colour	
TV-Out	Support PAL Composite video, RCA connector	
IrDA	Built in IrDA receiver	
Mobile Rack	2 (optional support Hot Swap Raid 1 Disk Mirror)	
CD-RW	1 (optional)	
GPIO	4	8
Video Compression	Support H: 263, M-JPEG, JPEG standards	
Image Size	320 x 240, 640 x 480	
Maximum Record/Playback Frame Rate	H: 263 60 fps JPEG 120 fps	
Maximum Live Display Frame Rate	200 fps (PAL)	
	Max. 30 fps per channel	
System Configuration	P4-1.7G CPU, 256MB DRAM Two RS232, Two RS422/485 2 USB port for external storage, PS/2 port, 100MB LAN	
Browser Compatibility	Windows 95/98/ME/2000/XP running Netscape, navigator 4.7 x or MS Internet Explorer 5.0 and above	
Communication Protocol	Support TCP/IP, PPPoE, DHCP, NTP, HTTP, FTP	
Power Supply	110V or 220V, 50HZ or 60HZ	

NETWORK MOBILE DIGITAL VIDEO/AUDIO RECORDER

NETWORK MOBILE DIGITAL VIDEO/AUDIO RECORDER

Product No: GSD-DVRM8

FEATURES:

- High quality pictures by digital recording
- 8 video inputs & 2 audio inputs
- Real time triplex mode (live/recording/playback)
- MPEG-4 compression recording modes
- PAL: 384 x 288, 768 x 576
- Two RS232 ports for GPS & GPRS
- Easy to use GUI by Linux operating System
- RCC remote viewer software support
- Robust file system to prevent abnormal shutdown
- +12VDC~45VDC power input support for transportation
- Auto power recovery
- Plug & play
- Construct of anti-vibration, shock & well self dissipation



APPLICATIONS:

- Public transportation
- Police car/cash carrier/ambulance
- Patrol wagon
- Fire engine
- Fleet management

SPECIFICATION:

Operating System	Embedded Linux System
Recording Medium	Hot-Swap 2.5" IDE HDD
Capacity	20GB ~ 250GB (40GB fitted as standard)
Recording Time	5GB/day w/ 30fps
Display	Time, Date, Vehicle Speed, Latitude, Longitude, 24 hours clock format
Video Input	8 input (BNC), 1V pp/75 ohm
Video Output	2 TV-out (BNC)
Resolution	PAL: 384x288; 768x576
Video Compression	Unique MPEG-4
Frame Rate	Maximum 60 fps
Audio Input	1/2 input (BNC), synchronised with video
Audio Output	Line out (22 line-level)
Sampling Rate	PCM 16-bit 44.1 KHz; 22.05KHz; 11.025KHz
Alarm Input	8 alarm inputs
Alarm Output	8 alarm outputs
Recording Mode	Continuous, Motion, time-lapse, event recording
Playback	Search by date, time, camera
Video Loss Detection	Yes
Event Log	Yes
User Interface	Menu driven
Timer	Build-in Real Time Clock
Title	Alphanumeric Characters
LAN	10/100Mbps
USB Port	Two USB ports can be connected to USB drive
Archive	USB Thumb Drive
RS-232	Two RS-232 ports for GPS and GPRS Interface
PS2	Keyboard, or provide power for GPS and GPRS
Infrared Receiver	1 st on board, 2 nd external w/ PS2 connector
Power Source	DC 12V~45V
Power Consumption	Maximum 72W (include 8 cameras)
Dimension	180mm(W) x 250mm(D) x 55mm(H)
Net	Weight 2.8kg
GPIO	8xGeneral purpose input/output
GPS	Supported with Vehicle speed, Latitude, Longitude
GPRS	Yes

ATM NETWORK DVR

ATM NETWORK DVR

Product No: GSD-DV404

Product No: GSD-DV408

Product No: GSD-DV416

With the advanced technology, the ATM DVR system provides the bank paying less attention to its user's security status. With cutting edge features, the DVR offers the ATM with those functions, such as the ability to view/record the whole environment around the ATM, the ATM users information (accessing time, account no, etc) and the accessibility for the MIS department that can remotely control over a bank's local area network.

The DVR is designed with embedded Linux that makes the system more stable and cost effective. The flexibility to join the protocol to connect to the ATM, the intelligent alarm trigger mechanism, the DVR has more than thousands of experience to collaborate with ATM major banks nationwide. Long recording time, convenient playback design, high recording resolution, remote retrieve are all basic functions that the DVR promises with more still to be discovered.

FEATURES:

Display & Record

- 4 video inputs & 1 audio input
- Total 20 FPS for display & record
- Motion Detection
- Real Time triplex functionality
- Motion JPEG (M-JPEG)



User-Friendly Interface

- Remote Controller
- Easy use by keyboard/mouse
- Easy installation
- Maintenance free running

Remote Access and Control

- Remote access by browser (TCP/IP)
- PTZ control (RS-232)

Playback

- Search video by date/time/camera
- Fast forward and backward retrieve

Security

- Multi-layers password protection
- Robust file system to prevent abnormal shutdown

Operation System

- Linux

ATM NETWORK DVR

ATM NETWORK DVR

Product No: GSD-DV404

Product No: GSD-DV408

Product No: GSD-DV416

SPECIFICATION:

System

<i>Recording Medium</i>	3.5" IDE hard drive supports ATA-66/100/133
<i>Capacity</i>	Suggested 60Gb or above
<i>Recording Mode</i>	Continuous, motion, schedule, alarm, with recycled recording
<i>Audio</i>	Mono, synchronised
<i>Recording Time</i>	MPEG-4/CIF format at 30 fps, 5GB HDD capacity MPEG-4/CIF format at 60 fps, 10GB HDD capacity MPEG-4/CIF format at 120 fps, 20GB HDD capacity
<i>Video Input</i>	Composite video, 1Vp-p into 75 ohms
<i>Audio Input</i>	Line Level
<i>Power</i>	One power switch at front panel
<i>Reset</i>	One reset button at front panel
<i>Anti-Video logger (Option)</i>	Detect range RF 900MHz~2.5GHz and video interfere
<i>GPRS (Option)</i>	Support RS-232 interface

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Hardware - I/O Connection/Controls

<i>Video Input</i>	4/8/16 video inputs
<i>Audio Input</i>	1/2/4 RCA audio inputs
<i>Video Output</i>	One TV-Out (option); One DB9 VGA connector
<i>Audio Output</i>	One Line-in; One Line-out, One Mic-in
<i>Serial Port</i>	Two RS-232 ports
<i>Parallel Port</i>	One print port
<i>PS2 Port</i>	One Keyboard, One Mouse
<i>USB Port</i>	Two USB 2.0 Port
<i>Digital Input (Option)</i>	4 trigger inputs
<i>Digital Output (Option)</i>	4 trigger outputs

Electrical

<i>Power</i>	ATX Power Supply 110-230V switch
<i>Power Consumption</i>	235W maximum

ATM NETWORK DVR

ATM NETWORK DVR

Product No: GSD-DV404

Product No: GSD-DV408

Product No: GSD-DV416

SPECIFICATION:

Enclosure

<i>Material</i>	
<i>Finish</i>	Powder Paint
<i>Colour</i>	Black
<i>Dimension (WxDxH)</i>	32cm x 33cm x 11cm

Remote Control Application

<i>Authentication</i>	Remote login authentication, 4 levels
<i>Remote Monitor</i>	Remote view 16 channels
<i>Adaptive frame rate</i>	User selectable
<i>Record</i>	Remote start/stop
<i>Motion Detection</i>	Remote setting multiple areas
<i>Alarm</i>	Remote call off
<i>PTZ</i>	Remote control camera
<i>Player</i>	Max. 16 players to sync search and play file list Play/Pause/FF/FB/Single frame search/Begin/End Search by event/date/time/camera
<i>Single Frame Capture</i>	BMP or JPEG format
<i>Print</i>	User selectable
<i>Remote Retrieve</i>	Copy/Download Specific file/period to remote host File/delete
<i>Time Adjust</i>	Supported
<i>Auto-reconnect</i>	Supported

Browsing Web

<i>Authentication</i>	Remote login authentication
<i>Remote Monitor</i>	Remote view 16 channels
<i>Player</i>	
<i>Playback</i>	Play/Pause/FF/FB/Single frame search/Begin/End
<i>Single Frame Capture</i>	BMP or JPEG format
<i>Print</i>	User selectable
<i>Event Browse/Search</i>	Search by event/date/time/camera

ATM NETWORK DVR

ATM NETWORK DVR

Product No: GSD-DV404

Product No: GSD-DV408

Product No: GSD-DV416

SPECIFICATION:

General Environment

<i>Operating Temperature</i>	0°C to 45°C
<i>Humidity</i>	90% RH non-condensing
<i>Weight</i>	3.85Kg

Software - Video Server

<i>Video Input</i>	4/8/16 Video Inputs
<i>Image Resolution</i>	PAL: 384x288, 768x576
<i>Frame Rate</i>	Total 30/60/120 fps
<i>Image Adjustment</i>	Hue/Contrast/Brightness/Compensation
<i>Image Compression</i>	MPEG-4 or MJPEG
<i>Audio Input</i>	1/2/4 Audio Inputs
<i>Audio Sampling Rate</i>	PCM16-bit 44, 1KHz, 22.05K, 11.025KHz
<i>Volume Adjustment</i>	22 levels
<i>Audio Compression</i>	ADPCM
<i>Display Mode</i>	Tilt/Focused/Full Screen/with Sequential
<i>Camera Name</i>	User Selectable
<i>PTZ</i>	User Selectable
<i>Continuous Record</i>	Adjustable recording rate
<i>Motion Record</i>	Adjustable recording rate, multiple area, Sensitivity
<i>Recycle Record</i>	Automatic
<i>Schedule Record</i>	User selectable
<i>Event Log</i>	Auto-log video loss, video recover, motion etc
<i>Time Lapse</i>	Playback while recording
<i>Supporting Hard Drive</i>	Max 4 IDE hard drives
<i>Local Backup</i>	Auto software disk mirror
<i>Remote backup</i>	User selectable backup to remote host
<i>Alarm Trigger</i>	Digital I/O, emergency, video loss, disk failure etc.
<i>Recovery</i>	Recover previous system status and setting when power on
<i>System Status</i>	Capacity, fps, alarm etc. shown in real time
<i>Authentication</i>	4 levels, login/logout, lock screen, remote access management, user management

NETWORK DVR WITH POS SOLUTION

Product No: GSD-DR4100

Product No: GSD-DR8100

FEATURES:

Features & Functions

- Video, audio & data recording
- Up to 30 fps for each camera live view
- Record and associate POS transaction data with video
- Record/ local-monitor/ remote-view/ playback simultaneously
- Support Multiple video compression algorithm: H.263, JPEG, MJPEG, MPEG4
- Motion detection/ Event trigger recording/ Schedule recording
- Pre-alarm recording



Recording Data Backup

- Support CD-RW and DVD+RW device
- Support NAS (Network Access Storage) and USB External Storage
- Support IDE or SCSI RAID device

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Alarm Functions

- Set Video loss, motion detection, sensor trigger, disk failure or specific text captured to alarm.
- Pop-up Window Alerting
- Make Voice Call, send E-mail or file to FTP server while alarm occurred

Central Monitoring Software

- Central Monitor Multiple Network DVR
- Remote configuration Network DVR
- Support E-Map
- Support Remote Control PTZ Camera
- Support Dynamic IP
- Support Pop-up Window alerting
- Support Motion detection/ Event trigger recording/ Schedule recording
- Monitoring up to 64 camera simultaneously on VGA screen
- Integrate 3" part POS system with the Network DVR
- Automatically capture POS transaction data into DVR from serial interface
- Each serial interface port can be connect one POS machine
- Record an associate POS transaction data with video
- Superimpose POS transaction data with video corresponding video
- Search video clips based on text (POS transaction data)
- User can specify keywords in the transaction data for Data Event
- Alerting when abnormal transaction data was captures such as VOID or NO SALE
- Central Monitoring multiple remote videos



STAND ALONE DVR WITH POS SOLUTION

STAND ALONE DVR WITH POS SOLUTION

Product No: GSD-DR4100

Product No: GSD-DR8100

SPECIFICATION:

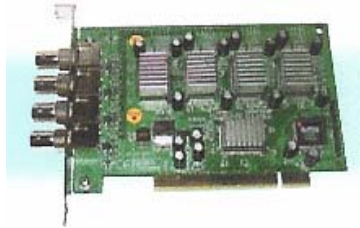
	<i>GSD-DR4100</i>	<i>GSD-DR8100</i>
<i>Video Standard</i>	Support PAL composite video, BNC connectors	
<i>Video Input</i>	4 Input	8 Input
<i>Audio Input</i>	1 Input	
<i>VGA Output</i>	24 bit true colour	
<i>TV-Out</i>	Support PAL composite video, RCA connectors	
<i>irDA</i>	Built in irDA Receiver	
<i>Mobile Rack</i>	2x removable hard drive	
<i>CD-RW/ DVD-RW</i>	Optional	
<i>GPIO</i>	4	8
<i>Video Compression</i>	H: 263, MJPEG, JPEG standards	
<i>Image Size</i>	320x240 CIF (default), 640x480 VGA	
<i>Maximum Record/ Playback Frame Rate</i>	H: 263 60 fps J-PEG 120 fps	
<i>Maximum Live/ Display Frame Rate</i>	PAL: 200fps (PAL), maximum 25fps/ channel	
<i>System Configuration</i>	Celeron 2.4GHz CPU 256MB DRAM Two RS232, two RS422/485 2 USB ports for external storage PS/2 port, 100MB LAN	
<i>Browser Compatibility</i>	Window 98/ ME/ 2000/ XP running Netscape Navigator or MS IE 6.0 and above	
<i>Communication Protocol</i>	TCP/ IP, DHCP, NTP, HTTP, FTP	
<i>Power Supply</i>	110V or 240V, 50Hz or 60Hz	

VIDEO CAPTURE CARD WITH POS SOLUTION

VIDEO CAPTURE CARD WITH POS SOLUTION

Product No: GSD-VP2100

Product No: GSD-VP2200



SPECIFICATION:

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	<i>GSD-VP2100</i>	<i>GSD-VP2200</i>
<i>Video Input</i>	Support PAL composite video 4/8/12/16 BNC Video Input Connectors, max.4 cards in one system	
<i>Audio Input</i>	1 Input	4/8/12/16 audio input
<i>Sensor Input and relay output</i>	(optional) thru comport	(optional) 4 input/4output
<i>Compression Standard</i>	H: 263, MJPEG, JPEG standards	MPEG 4 Hardware Codec
<i>Image resolution</i>	320x240 (default), 640x480	360x240, 720x480 Full D1
<i>Maximum Record/ Playback Frame Rate</i>	PAL: 100fps/total	PAL: 100fps/ CIF, 25fps/ Full D1/ 400fps/ total
<i>Maximum Live Display Frame Rate</i>	PAL: 25fps/ channel	PAL: 25fps/ channel
<i>Minimum System Requirements</i>	Pentium IV 1.6GHz CPU 256 MB DRAM, 40GB HDD Two PCI Rev.2.2 compatible slot One IDE slot for DOM chip AGP VGA card support VESA 2 One PCI Ethernet Card 2S/1P	Pentium IV 2GHz CPU or better 256MB DRAM, 40GB HDD Two PCI REv.2.2 compatible slot One IDE slot for DOM chip AGP VGA card support VESA 2 One PCI Ethernet Card 2S/1P
<i>Browser Compatibility</i>	Win98/ ME/ 2000/ XP Running Netscape Navigator or MS IE 6.0	
<i>Communication Protocol</i>	TCP/ IP, DHCP, NTP, HTTP, FTP	TCP/ IP/ PPPoE, DHCP, NTP, HTTP, FTP, UPNP, Multicast
<i>Back Up Function</i>	IDE or USB Interface HDD, CD-RW, DVD-RW	
<i>Language</i>	English	
<i>Standard Package</i>	DOM with Firmware VP-40 Capture Card VP-207 Keypro IrDA Controller	DOM with Firmware VP-21 Capture Card VP-207 Keypro IrDA Controller

POWERFUL NETWORK DVR WITH LINUX PLATFORM

Product No: GSD-VP200

CHARACTERISTICS

- Network DVR Firmware in a DOM for greater stability
- Plug and Play, no operating system required
- 4 video input, maximum 16 video inputs in one system
- Full D1 resolution (720 x 480)
- Built in Quad chip for local live video surveillance
- MPEG 4 Hardware Codec support
- Real time live monitoring, up to 30fps for each camera
- 4 audio input, 1 audio output
- Comprehensive back up device support
- Simultaneous Record/Playback/Back up/Browse Capabilities
- Hardware Watchdog support for automatic failure recovery
- Built in web server and firewall

FEATURES

Video & Audio Recording

- Network DVR Firmware in DOM
- Easy operation with IR Remote Control
- Maximum 4 video Capture Cards in one system
- Built in channel switching (QUAD) function for local live monitoring
- User selectable of 1/4/6/7/8/9/10/13/16 multiple split screen display
- Support multiple brands of speed domes
- Thumbnail browsing support

Easy to use

- Plug and Play, no operating system required
- Compatible with most of the motherboards
- Support External USB Hard Disk, CD-RW for back up

Network

- TCP/IP, PPPoE, DHCP, NTP, HTTP, FTP, UPNP, Multicast support
- Dynamic IP Support
- Direct Dial Up Available
- Use MSIE Standard Web Browser for remote viewing

Alarm Function

- Voice call, E-Mail & FTP server alarm notification
- Automatically displays the corresponding enlarged image when alarm is triggered
- Selectable Motion Detection recording/Event trigger recording/Pre-alarm function recording/Schedule recording
- Search recording data by date, time, triggered events

Back Up Function

- NAS and USB external storage support
- IDE or USB Interface HDD, CD-RW, and DVD-RW back up support

Customisation

- Provides URL syntax for Graphic User Interface and Home Web Page customisation
- Supports Firmware upgrade from UB Flash Drive or CD ROM



POWERFUL NETWORK DVR WITH LINUX PLATFORM

POWERFUL NETWORK DVR WITH LINUX PLATFORM

Product No: GSD-VP200

SPECIFICATION

<i>Video Input</i>	Supports PAL composite video 4/8/12/16 BNC Video Input Connectors
<i>Audio Input</i>	4/8/12/16 audios input
<i>Sensor Input/Relay Output</i>	4 Input/4 Output
<i>Compression Standard</i>	MPEG 4 Hardware Codec
<i>Image Resolution</i>	24bits 360 x 240, 720 x 480 (default)
<i>Maximum Live Display Frame Rate</i>	PAL: 25fps/channel, 100 fps/total
<i>Maximum Video Recording Frame Rate</i>	PAL: 100fps/CIF, 25fps/Full D1
<i>Minimum System Requirement</i>	Pentium IV 2.0GHz CPU or better 256MB DRAM One IDE slot for DOM Chip AGP VGA Card
<i>Browser Compatibility</i>	WIN 98/ME/2000/XP running MS Internet Explorer
<i>Communication Protocol</i>	TCP/IP, PPPoE, DHCP, NTP, HTTP, FTP, UNPNP, Multi-cast
<i>Back Up Function</i>	IDE or USB Interface HDD, CD-RW, DVD-RW
<i>Language</i>	English
<i>Standard Package</i>	DOM Firmware VP-21 Capture Card iRDA Controller User Manual

POWERFULL NETWORK DVR WITH LINUX PLATFORM

POWERFULL NETWORK DVR WITH LINUX PLATFORM

Product No: GSD-DVX9200

CHARACTERISTICS

- Full D1 (720 x 480) Hardware MPEG-4 Encoding
- Full D1 30fps live surveillance for each camera
- Real time audio and video recording
- Built in 5-bay IDE-RAID and Redundant Power Supply
- Built in web server and firewall
- Support TCP/IP, PPPoE, DHCP, NTP, HTTP, FTP, UPNP, multi-cast
- Support NAS and USB external storage
- IDE or USB interface HDD, CD-RW and DVD-RW back up support
- Simultaneous recording, playback, back up, browse capability
- With watermark authentication
- Hardware Watchdog support for automatic failure recovery

FEATURES

- Video & Audio Recording
- Embedded Digital Video Recorder & remote video server
- Easy operation with IR Remote Control
- Friendly Graphic User Interface (Gui)
- Text overlay on video support
- User selectable of 1/4/6/7/8/9/10/13/16 multiple split screen display
- Support multiple brands of speed domes
- Video exported to VGA or TV Monitor

Alarm Function

- Automatic alarm notification
- Voice call alert notification
- Snapshot images through email or FTP server when alarm is triggered

Network

- Browser based, no remote viewing software required
- 2-way audio transmission
- Dynamic IP Support
- Access denied for pre-identified hosts through IP network

Recording & Back Up Function

- Thumbnail browsing support
- SCSI/USB/IDE Raid and NAS Storage System support
- Built in 5 bay IDE RAID and redundant Power Supply
- Motion Detection/Alarm Trigger/Cyclic/Schedule and Pre-alarm recording

Customisation

- Provides URL syntax for Graphic User Interface and Home Web Page customisation
- Supports Firmware upgrade from USB Flash Drive or CD ROM



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POWERFUL NETWORK DVR WITH LINUX PLATFORM

POWERFUL NETWORK DVR WITH LINUX PLATFORM

Product No: GSD-DVX9200

SPECIFICATION

<i>Model</i>	<i>GSD-DVX9208</i>	<i>GSD-DVX9212</i>	<i>GSD-DVX9216</i>
<i>Video input</i>	8	12	16
<i>Audio input</i>	8	12	16
<i>Sensor Input/Relay Output</i>	8	12	16
<i>Compression Standard</i>	MPEG 4 Hardware Codec		
<i>VGA Output</i>	24 bit true colour		
<i>HDD Mobile Rack</i>	5 Bay		
<i>DVD-RW/CD-RW</i>	Optional		
<i>IR Remote Control</i>	Built in IR Receiver		
<i>Maximum Live Display Frame Rate</i>	PAL: 200fps	PAL: 300fps	PAL: 400fps
<i>Maximum Video Recording Frame Rate (D1 Resolution)</i>	PAL: 50fps	PAL: 75fps	PAL: 100fps
<i>Maximum Video Recording Frame Rate (CIF Resolution)</i>	PAL: 200fps	PAL: 300fps	PAL: 400fps
<i>Browser Compatibility</i>	WIN 98/ME/2000/XP running, MS Internet Explorer 6.0 or later		
<i>Communication Protocol</i>	TCP/IP, PPPoE, DHCP, NTP, HTTP, FTP, UPNP, Multi cast		
<i>Back Up Function</i>	IDE or USB Interface HDD, CD-RW, DVD-RW		
<i>Language</i>	English		
<i>Redundant Power Supply</i>	Voltage: 90-264VAC Full Range Frequency: 47-63Hz		
<i>Size</i>	51.2cm (L) x 43.5cm (W) x 17.5cm (H)		

U2 LVD SCSI TO ULTRA DMA RAID SUBSYSTEM

U2 LVD SCSI TO ULTRA DMA RAID SUBSYSTEM

Product No: GSD-OT8900

Product No: GSD-OR8900

The GSD-OT8900/OR8900 is an intelligent ultra 1 SCSI drive ready RAID subsystem supplying fault tolerant data protection & 100% transparency to the host operating system. it is a full featured RAID array supporting RAID levels 0, 1, 0+1, 3 & 5. For higher data throughout rates & extended SCSI cable lengths, the GSD-OT8900/OR8900 contains an ultra 2 SCSI hot interface providing data rates up to 80MB/s. Available in either a 4U rack mount or a tower based chassis, it is the ideal storage solution for applications requiring high data throughput, availability & flexibility in configuration.

It also features an embedded controller with a 64-bit RISC processor & support for up to 128MB of cache. It also supports SCSI features like command queuing. Tagged command queuing allows the controller to co-ordinate with the host operating systems as to how commands are executed. This feature allows the embedded controller & the host operating system to co-ordinate command execution for maximum system efficiency.

The GSD-OT8900/GSD-OR8900 comes with 8 hot swappable drive trays accommodating 3.5" ultra DMA 100 drives. When there is a drive in each tray, 1 drive can be designated as a hot spare. This feature allows the controller to automatically start rebuilding the data that was in a failed drive using the hot standby drive. This feature minimises the time that array would be functioning without the protection of a fully functional array. For an additional level of reliability, it contains a backplane design which eliminates the problems associated with cable interconnects.



GSD-OT8900



GSD-OR8900

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FEATURES:

- Supports RAID levels 0, 1, 0+, 3 & 5
- Ultra 2 LVD host port
- Tagged command queuing for 255 commands, allows for overlapping data streams
- Supports up to 8 1" hot swappable ultra DMA hard drives
- Supports multiple array enclosures per host connection
- Configurable to 19" rack mountable 4U chassis
- Transparent data protection for all popular operating systems
- Supports up to 128MB of cache
- Supports hot square & automatic rebuild
- Features inter i960RN 64 bit RISC processor
- Allows online capacity expansion within the enclosure
- Redundant hot swap 250W power supplies
- Environment monitoring
- Built-in serial port interface for remote event notification
- Real Time drive activity & status indicators
- Local event notification
- Java based browser type GUI management utility

U2 LVD SCSI TO ULTRA DMA RAID SUBSYSTEM

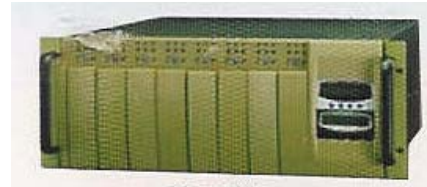
U2 LVD SCSI TO ULTRA DMA RAID SUBSYSTEM

Product No: GSD-OT8900

Product No: GSD-OR8900



GSD-OT8900



GSD-OR8900

SPECIFICATION:

Model	GSD-OT8900	GSD-OR8900
Form-Factor	Desk Side Tower Chassis	4U Rack mount Chassis
Raid-Processor	I960RN 64 bit	
Raid Level	0, 1, 0+1, 3, 5	
Cache Memory	64MB- 128MB	
Host + Drive	1 + 8	
Host Bus Interface	Ultra DMA 100	
Drive Bus Interface	Ultra 2 LVD	
Data Transfer Rate	Ultra DMA 100	
Back Plane Board	Up to 80MB/ sec.	
Hot-swap Drive Tray	8 each 1" Trays	
Drive Tray Interface	Ultra DMA 100	
Hot Swap Power Supply	2 each 250W supplies	
Tagged Command	Up to 255 Commands	
Cooling Fan	4	
Security Lock	Yes	
Fax/Pager Notification	Yes	
Password Protection	Yes	
Audible Alarm	Yes	
Failed Drive Indicator	Yes	
Failed Drive Auto Re-Build	Yes	
On-Line Consistency Check	Yes	
Hot Standby Drive	Yes	
Continuous Rebuild	Yes	
Host Independent	Yes	
UPS Connection	Yes	
Environment Monitor	Yes	
MTBF (hrs)	>500,000	
Power Requirements	AC115V/230V, 5/2.5A, 50/60Hz	
Environment Humidity	10% to 85% Non-Condensing	
Operating Temperature	430 (H) X 176 (W) X 449 (D) mm	
Weight	17 Kgs	

EXTERNAL DATA STORAGE FOR DVR

EXTERNAL DATA STORAGE FOR DVR

Product No: GSD-OTR8400

The GSD-OTR8400 disk box is an external data storage device, which meets the demand of a large file system produced by Digital Video Recording (DVR) / Digital Audio Recording (DAR) / Media Streaming. In addition with leading SCSI to IDE technology, the disk box converts IDE hard drives to SCSI & achieves better performance & is cost effective.



FEATURES:

- High capacity data storage with space for 4 hard disk drives
- High scalability up to 15 sets of GSD-OTR8400 (with 40MB/s transfer rate); Maximum capacity reaches 12 TB by installing 60 200 GB hard drives
- High scalability up to 8 sets of GSD-OTR8400 (with 160MB/s transfer rate); maximum capacity reaches 6.4 TB by installing 32 200 GB hard drives
- 48-bit LBA Supports Big Drives Technology (exceeding 137 GB HDD)
- Built-in RISC micro controller core improves chip performance
- On-board Flash ROM easy for firmware upgrade
- Cost-effective and high performance

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SPECIFICATION:

- 1U rack mount of 44(H) x 483 (W) x 400 (D) mm
- Supports Ultra 160 LVD SCSI target features with transfer rate up to 160 MB/sec
- Supports UDMA mode with data transfer rate up to 133 MB/sec^{°E}
- Supports Ultra ATA 133/100/66/33 HDD
- 2 independent channels of IDE bus
- JBOD/Normal Mode function selection by dipswitch
- Selectable SCSI ID sets from 0 to 15

DVR SYSTEMS

DVR SYSTEMS

Product No: GSD-DVR32

32 channel Goldcrest DVR with onboard memory

Product No: GSD-DVR24

24 channel Goldcrest DVR with onboard memory

Product No: GSD-DVR16

16 channel Goldcrest DVR with onboard memory

Product No: GSD-DVR12

12 channel Goldcrest DVR with onboard memory

Product No: GSD-DVR08

08 channel Goldcrest DVR with onboard memory

Product No: GSD-DVR04

04 channel Goldcrest DVR with onboard memory



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- O/S Windows: 98 SE, XP, 2000
- System CPU: P-4 2.4GHZ
- Memory: 256 MB RAM
- Hard Drive Capacity: to be specified
- Camera Input: 4, 8, 12, 16, 24, 32
- Screen Multiplexing: 1, 4, 9, 16
- Display Speed: 120 fps / GLOBAL system
- Recording Speed: 120 fps / system
- Compression Format: JPEG, MPEG4
- NTSC/PAL: 320*240, 640*240, 640*480
- Pan/Tilt/Zoom/Focus: Supported on all systems
- Compression: Adjustable on system by camera
- Motion Detection: Adjustable for each camera
- Pre/Post Motion: Programmable on system
- Resolution Adjust: Individual Camera resolution set-up
- Sensor Input: 16
- Relay Output: 4
- Networking: LAN, PSTN, ISDN, ADSL
- Virtual keyboard: Supported throughout DVR software
- Camera Signal: PAL
- Camera Hide Function: Available for Every Camera to Hide from main Monitoring page of system
- Time/Date Stamp: A watermark feature for each frame captured
- Multi Level Password: Can programme up to 8 levels
- P/T Receiver: Select different receiver per each camera
- Data Backup: Backup of each camera/time (HDD, DAT, DVD, CDRW, On-Streamer)
- Sound Recording: 4 CH
- Two Way Audio: 2 CH

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

Product No: GSD-
SNADR400

Product No: GSD-
SNADR600

Product No: GSD-
SNADR900

FEATURES:

Systems

- Embedded high speed industrial-grade CPU and RTOS (V x Works), Non-PC based, free from virus and instability
- Industry unique modularized design, ease of use and maintenance



Compression

- Pure Hardware MPEG-4 compression/decompression chip, higher stability
- Synch video and audio compression by each channel separately

Display

- 4/ 6/ 9 Channel audio and video input, Main/call monitor output
- Main monitor support Each, Quad, 6 channel, 9 channel image displaying, 25f/s (PAL), 30f/s (NTSC) display per channel, complete real-time, no time lapse
- Call monitor can output the image of each camera and alarm separately or by looping
- Support auto-switch of channels and image freeze each channel
- Image position, hue, saturation and brightness adjustable dynamically
- Each channel title and configuration can be set dynamically. The maximum input is 10 characters
- VGA video output optional

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Recording

- 4/ 6/ 9 Channel Audio/ Video Simultaneous Recording
- High resolution DVD image quality, Half-D1 format, fixed and flexible bit rate optional
- Display/record simultaneously with audio and video, record separately by each channel and the highest frame up
- To 25 f/s/ch (PAL), frame rate adjustable
- Manual Recording, schedule Recording, Alarm Recording and Motion Detection Recording modes
- Recording quality adjustable, 10 levels selectable
- Power-on recording function supported

Motion Detection

- Max. 192 detection zones can be set up each channel
- 1~99 level detection sensitivity can be set up for each channel

Storage

- Meet ATA-6 criterion, support up to 16 HDDs
- Overwrite and stop recording function when the HDD is fully occupied
- Non-performing HDD stand-by mode, reduce the heat and power consumption and extend the life span of HDD

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

Product No: GSD-
SNADR400

Product No: GSD-
SNADR600

Product No: GSD-
SNADR900

FEATURES:

Search

- By time, date, channel No., Alarm event
- On event search function supported

Playback

- 1 channel local playback supported
- FF, REW, Pause, Previous, next, jump play, audio mute function

Watermark

- Information such as time, date, channel number and special marks can be printed on the video image to protect against forge, ensuring their uniqueness and credibility

Pan/Tilt

- Rs485, Multiple PTZ control protocols supported
- Pan/Tilt preset function provided
- Pan/tilt speed adjustable

Alarm

- 4/6/9 Channel Alarm Input, 4 Channel Alarm Output
- Alarm input type selectable and Alarm Output time adjustable
- Then alarm can be stopped manually



Network

- 10/100M Ethernet connection
- Remote configuration and management
- Remote monitoring, recording, playback, search and backup
- PTZ control through Network supported
- Built-in web server, IE browse supported
- Act as Network Server when without HDD

Security Management

- 3 levels of password control, defining the access authority of different users

User Interface

- Friendly Graphical user interface
- Detail display of system running status display provided
- Front Panel and remote controller
- Network Remote Control software provided for centralised management

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

Product No: GSD-
SNADR400

Product No: GSD-
SNADR600

Product No: GSD-
SNADR900

FEATURES:

Backup

- Network backup
- USB backup
- HDD with backup data can be connected to a PC directly and be played back through a PC

Communication Interface

- RS232, modem connection, realise the network operation through a telephone line
- Master control keyboard connection, realise centralised control
- PC COM connection, easy for system maintenance and upgrade

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

ADR SERIES REAL TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

Product No: GSD-
SNADR400

Product No: GSD-
SNADR600

Product No: GSD-
SNADR900

SPECIFICATION:

Model	GSD-SNADR400	GSD-SNADR600	GSD-SNADR900
Video Input	4 Channel PAL, BNC (1.0Vp-p, 75ohm)	6 Channel PAL, BNC (1.0Vp-p, 75ohm)	9 Channel PAL, BNC (1.0Vp-p, 75ohm)
Video Output	Main monitor, support each, quad, 6, 9-split image display Call monitor, each camera and alarm image can be displayed VGA video output optional, support each, quad, 6, 9-split		
Audio Input	4 Channel, 8dB, 22K, RCA	6 Channel, 8dB, 22K, RCA	9 Channel, 8dB, 22K, RCA
Audio Output	1 Channel, 8dB, 22K, RCA		
Video Compression	MPEG-4		
Recording Resolution	325x576 (PAL)		
Alarm Input	4 Channel (N.O)	6 Channel (N.O)	9 Channel (N.O)
Alarm Output	4 Channel (N.O or N.C)		
Video loss Detection	Yes		
Network Connectivity	10m/100m Ethernet, TCP/IP protocol		
Event Log	Yes		
Hard Disk Storage	3.5" IDE interface, up to 16 HDDs, FAT32 format		
Recording Mode	Continuous, schedule, event, motion detection and pre-event recording		
Recording Rate	Up to 30/25 pictures per second for PAL		
Playback Rate	Up to 30/25 pictures per second for PAL		
Playback search	By time, channel no, alarm event		
Motion Detection	Each channel up to 192 detection zone		
Setup	On screen display setup		
User Interface	Menu driven		
Operation System	Real time operation system (V x Works)		
User Input Device	Front panel keypad or remote controller (optional)		
Timer	Built-in real time clock		
Watch Dog Timer	Yes		
RS-232	DB 9-pin female connector		
RS485	Three Conductor terminal block		
Backup Device	1) USB Backup 2) Network Backup		
Dimension	440mm(W) x 100mm(H) x 510mm(D)		
Operating Temperature	0°C~+50°C		
Power Consumption	80W		
Power Supply	AC110/220V, 60/50Hz		
Weight	Approx. 8Kg (without HDD)		

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

Product No: GSD-SNMDR2012TS/2014TS

Product No: GSD-SNMDR2012/2014

Product No: GSD-SNMDR2002/2004

FEATURES:

- Vehicle sensor function (Black Box)
- Entertaining programs
- Built in 7" in-dash flip-out TFT LCD monitor
- Touch control function
- GPS



FUNCTIONS:

- Adopt high-speed stand-alone processor and real-time operation system, excellent stability and reliability
- 2/4 channel audio/video real-time monitor/record synch
- Video compression adopts advanced pure hardware compression mode
- Built-in 7" in-dash flip-out TFT LCD monitor. Can be controlled through the touch control screen (GSD-SNMDR2012TS/2014TS, GSD-SNMDR3012TS/3014TS);
- In addition to display live and playback images of the MDR, the LCD monitor can also receive Radio and TV signals, up to 99 channels of Radio or TV can be stored. The built in audio amplifier can drive speakers in the vehicle directly (GSD-SNMDR2012TS/2014TS, GSD-SNMDR2012/2014, GSD-SNMDR3012TS/3014TS, GSD-SNMDR3012/3014)
- Synchronically monitoring, recording, playing
- Using 2.5" removable HDD
- Support motion detection function
- Alarm input & output, support alarm recording function
- Multi level recording picture quality selectable, resolution ranges from VCD, SVCD to DVD
- Multi-mode recording; supports manual recording in emergency
- Supports video-loss alarm function;
- Power-off protection of records, automatic resume when power is on again.
- Auto-switch to image of the camera on the back when reversing, enhance safety when the vehicle is in reverse
- Shut down delay (0-60 minutes adjustable) function, continuous recording for a certain period of time after shut down
- NTP (Network Timing Protocol) function, synchronize the time of networked MDRs
- DST (Daylight Saving Timing) function, suitable for wide areas
- License plate number and route mark function, identify the records conveniently
- Friendly users graphical interface, 3D menu and dialog box provide convenient operations. Language of English and Chinese selectable.
- Multi-level password and authority setup ensure safety and liability of record data.
- Control through IR remote controller (GSD-SNRC200) or wired controller panel (GSD-SNCC10)
- Software system can be upgraded through network
- High Speed 100m Ethernet, support remote high-speed transmission of real-time pictures and files backup, record pick-up;
- Multi record search mode, playback video easily;
- Support recorded file lock function, preventing important record data being overwritten;
- Compact structure designed for rack and HDD brace, HDD is protected against shock and vibration
- Built-in heater and temperature controller (optional)
- Vehicle sensor function (option), running status (for example: turning right, turning left, brake, reverse, etc.) of the vehicle can be recorded
- Speed of the vehicle can be displayed & calibrated, Km/h or Mile/h selectable
- 12VDC/1.5A power outlet for connected cameras

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM

Product No: GSD-SNMDR2012TS/2014TS

Product No: GSD-SNMDR2012/2014

Product No: GSD-SNMDR2002/2004

SPECIFICATION:

Model	GSD-SNMDR2012TS/2014TS	GSD-SNMDR2012/2014	GSD-SNMDR2002/2004
Video Input	2/4 channel BNC video in, B/W & colour compatible		
Audio Input	2/4 channel RCA audio in		
Video Output	Through the built-in 7" in-dash flip-out TFT LCD monitor		1 channel
Audio Amplifier Output	Built-in audio amplifier (30W x 4) can drive the speakers of the vehicle directly		
Audio Output	1 channel		
Monitor/Record Frame Rate	25 f/s/Ch (PAL)		
Video Compress	MPEG1/MPEG2 selectable		
Record Resolution	2 channels: half D1/Ch: 4 channels: CIF/Ch		
Display Mode	2 channels MDR: single, 1/2 screen: 4 channels MDR: single, quad		
Alarm In	4 voltage signal input		
Alarm Out	2 relay output		
Picture Quality	9 level picture quality (6 level is default, 3 level user-defined) the video quality from VCD, SVCD to DVD		
Record Mode	Continuous-REC, overlay REC, timer REC, alarm REC, motion detect REC		
Motion Detection	Each video can setup the 16 block motion detect area & 9 level sensitivity adjustable		
HDD	2.5" Removable HDD		
Network	10/100 M RJ45, TCP/IP protocol		
Backup function	1. Support CD-Rom backup, the CD-Rom can be played on SVCD, DVD or PC directly 2. Support HDD backup, the HDD can be played on other MDR with the same model; 3. Support network backup		
Control	1. IR Remote Controller (GSD-SNRC200) and wired controller panel (GSD-SNCC10) optional; 2. Through the touch control screen (GSD-SNMDR2012TS/2014TS)		
DC Out	1 series of 12VDC output for cameras		
Vehicle Sensor Function	Moving status (for example: turning right, turning left, brake, reverse, etc.) of the vehicle can be recorded Speed of the vehicle can be displayed & calibrated, Km/h or Mile/h selectable		
Structure	Compact Structure designed for rack and HDD brace HDD is protected against shock and vibration		
Power Input	10.5V-14VDC		10V-30VDC
Temperature	Work Temperature: -30°C - +50°C; humidity: < 90%		
Dimension	190(W) x 90(H) x 295(D) mm		180(W) x 40(H) x 295(D) mm
Weight	4.5Kg		3Kg

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM - PROFESSIONAL

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM - PROFESSIONAL

Product No: GSD-SNMDR3012TS/3014TS

Product No: GSD-SNMDR3012/3014

Product No: GSD-SNMDR3002/3004

FUNCTIONS:

Model	GSD-SNMDR3012TS/3014TS	GSD-SNMDR3012/3014	GSD-SNMDR3002/3004
Video Input	2/4 channel BNC video in, B/W & colour compatible		
Audio Input	2 channel RCA audio in		
Video Output	Through the built-in 7" in-dash flip-out TFT LCD monitor		1 channel
Audio Amplifier Output	Built-in audio amplifier (30Wx4), can drive the speakers of the vehicle directly		
Audio Output	2 channel		
Monitor/Record Frame Rate	25 f/s/Ch (PAL), 30 f/s/Ch (NTSC)		
Video Compress	MPEG1/MPEG2/MPEG4 selectable		
Record Resolution	2 channels: half D1/Ch; 4 channels: CIF/Ch		
Display Mode	2 channels MDR: Single, 1/2 screen; 4 channels MDR: single, quad		
Alarm In	4 voltage signal input		
Alarm Out	2 relay output		
Picture Quality	9 level picture quality, the video quality from VCD, SVCD to DVD		
Record Mode	Continuous-REC, overlay REC, timer REC, alarm REC, motion detect REC		
Motion Detection	Each video can setup the 192 block motion detect area & multi-level sensitivity adjustable		
HDD	2.5" removable HDD		
Network	10/100 M RJ45, TCP/IP protocol		
Backup function	1. Support USB Backup; 2. Support HDD backup, the HDD can be played on a PC directly; 3. Support network backup.		
Control	1. IR remote controller (GSD-SNRC200) & wired controller panel (GSD-SNCC10) optional; 2. Through the touch control screen (GSD-SNMDR3012TS/3014TS)		
DC Out	1 series of 12VDC output for cameras		
Vehicle Sensor Function	Moving status (for example: turning right, turning left, brake, reverse, etc.) of the vehicle can be recorded Speed of the vehicle can be displayed & calibrated, Km/h or Mile/h selectable		
Structure	Compact structure designed for rack and HDD brace HDD is protected against shock and vibration		
GPS Function	Optional		
GSM SMS Alarm Function	Optional		
Wireless Network Function	Optional		
Two-way Network Voice Communication Function	Optional		
Power Input	10.5V-14VDC		10V-30VDC
Temperature	Work Temperature: -30°C- +50°C; humidity: < 90%		
Dimension	190(W) x 90(H) x 295(D) mm		180(W) x 40(H) x 295(D) mm
Weight	4.5Kg		3Kg

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM - PROFESSIONAL

MOBILE REAL-TIME DIGITAL VIDEO & AUDIO RECORDING SYSTEM - PROFESSIONAL

Product No: GSD-SNMDR3012TS/3014TS

Product No: GSD-SNMDR3012/3014

Product No: GSD-SNMDR3002/3004

SPECIAL FEATURES (OPTIONAL):

- Support GPS function
- Two-way network voice communication function
- Support 802.11 wireless network transmission function
- GSM SMS alarm function
- Adopt FAT32 file format, recorded data in HDD can be played on a PC directly
- Support HDD stand-by function
- Support skip damaged sector of the HDD function ensures the safety of recorded data



REAL TIME MOBILE DIGITAL VIDEO & AUDIO RECORDER

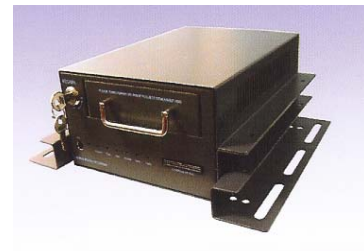
REAL TIME MOBILE DIGITAL VIDEO & AUDIO RECORDER

Product No: GSD-SNMDR1002/1004

2/4 Channel —Real Time Mobile Digital Video & Audio Recorder

FEATURES:

- Stand-alone real time operation system (PSOS)
- Patent compression technology, rather high resolution
- 3D user graphical interface, easy to operate
- Provides remote management control function
- Specially designed, anti-vibration & shock
- CD-R/RW & HDD backup function
- Support hard disk hot-swappable



FUNCTIONS:

- Adopt high-speed stand-alone processor & real-time operation system, excellent stability provided. Target for long duration jobs
- 2/4 channel audio/video real-time monitor/record synch, frame rate 25 f/s/ Ch. (PAL)
- Video compression adopts advanced MPEG1, MPEG2 HDD compression mode, audio compression adopts MPEG layer2, bit rate selectable
- Synchronically monitoring, recording, playing
- Hard disk hot-swappable, 3.5" & 2.5" HDD selectable
- Alarm input & output, support alarm rec.
- 9 picture quality selectable (6 levels are default, 3 levels user-defined). Resolution ranges from CIF, 2/3 D1 to D1
- Multi mode recording, including continuous recording, schedule recording, alarm recording, motion detection recording etc., video loss alarm is available. Support motion detection function, 16 detection zone, 9 levels sensitivity adjustable
- Fast search & playback according to time, alarm state & record location
- Backup interface, support backup of CD-R/RW & HDD. CD-R/RW can be directly played on VCD, SVCD, DVD or PC
- High speed 100M Ethernet, support remote high-speed transmission of real-time pictures & backup files, record pick-up;
- Power-off protection of records, automatic resume when power is on again
- Friendly users graphical interface, 3D menu & dialog box provides convenient operations. Language of English and Chinese selectable
- Multi-level password and authority setup ensures safety & liability of recorded data.
- Remote Controller
- Support 10V-30VDC range power supply
- Special designed for mobile Digital Video Recorder, Anti-Vibration and shock
- HDD is protected against shock and vibration
- Built-in heater and temperature controller (Option)
- Vehicle sensor function (option)
- Recorded file lock function
- 12VDC/5A power outlet for connection to cameras
- Removable HDD for central playback

REAL TIME MOBILE DIGITAL VIDEO & AUDIO RECORDER

REAL TIME MOBILE DIGITAL VIDEO & AUDIO RECORDER

Product No: GSD-SNMDR1002/1004

2/4 Channel—Real Time Mobile Digital Video & Audio Recorder Specification

SPECIFICATION:

<i>Video Input</i>	2/4 BNC video in, B/W & colour compatible
<i>Video Output</i>	1 BNC video out, 1 S-video out
<i>Audio Input</i>	2/4 audio in
<i>Audio Output</i>	1 audio out
<i>Frame Rate</i>	25 f/s/Ch (PAL)
<i>Video Compress</i>	MPEG1/MPEG2 (CIF, 2/3 D1, D1)
<i>Audio Compress</i>	MPEG layer1
<i>Recording Speed</i>	25 f/s/Ch (PAL), real-time
<i>Display Speed</i>	25 f/s/Ch (PAL), real-time
<i>Resolution</i>	2 channels: 1/2 D1/Ch, 4 channels: CIF/Ch, MPEG2 compress
<i>Display Mode</i>	Single 1/2 screen quad
<i>Alarm In</i>	4 sensors input
<i>Alarm Out</i>	2 alarm output (NO)
<i>Picture Quality</i>	9 level picture quality (6 level is default, 3 level user-defined). The video quality from VCD, SVCD to DVD
<i>Record Mode</i>	Continuous-REC, overlay REC, timer REC, alarm REC, motion detect REC
<i>Motion Detection</i>	Each video can setup the 16 block motion detect area & 9 level resolution can adjust
<i>HDD</i>	Hard disk hot-swapping, 3.5" & 2.5" HDD selectable
<i>Function</i>	<u>Easy to search record file</u> Sign of alarm event Display the time/date, license plate & travel path character (no more than 8 characters)
<i>Network</i>	10/100 M RJ45 TCP/IP protocol
<i>Structure</i>	Case & HDD with special double shock absorption design
<i>Remote Control</i>	Remote controller
<i>DC Out</i>	1 series of 12VDC output
<i>Power</i>	10V-30VDC power supply
<i>Temperature</i>	Work temperature: -30° - +50°; humidity: < 90%

VIDEO SWITCHERS

VIDEO SWITCHERS

AUTO SWITCHERS:

Product No: GSD-AS4802

Product No: GSD-AS4804

Product No: GSD-AS4806

Product No: GSD-AS4808



SPECIFICATION:

Model	GSD-AS4802	GSD-AS4804	GSD-AS4806	GSD-AS4808
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz			
Video Input	1.0Vp-p/75 ohm 2 Inputs	1.0Vp-p/75 ohm 4 Inputs	1.0Vp-p/75 ohm 6 Inputs	1.0Vp-p/75 ohm 8 Inputs
Video Output	1.0Vp-p/75 ohm, 2 output			
Video Gain	From attenuation to amplifier 0.8 Vp-p to 1.4 Vp-p			
Video Bandwidth	20 MHz \pm 3dB			
Maximum Video Input	2.0Vp-p			
Crosstalk Input	Better than 40dB			
Switching Interval	1 to 35 sec.			
Channel Switches	Bypass/auto/manual			
Power Consumption	1 Watt			
Video Connections	BNC connector			
Position & Power Lamp	LED			
Construction	Steel with black baked enamel finish			
Operating Temperature	-5°C to +60°C			
Dimensions	218(W) x 44(H) x 200(D) mm			
Weight	1.56Kgs			

VIDEO SWITCHERS

VIDEO SWITCHERS

SEQUENTIAL SWITCHERS:

Product No: GSD-ASS4808

Product No: GSD-ASS4812

Product No: GSD-ASS4816



SPECIFICATION:

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Model	GSD-ASS4808	GSD-ASS4812	GSD-ASS4816
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz		
Video Input	1.0Vp-p/75 ohm 8 Inputs	1.0Vp-p/75 ohm 12 Inputs	1.0Vp-p/75 ohm 16 Inputs
Video Output	1.0Vp-p/75 ohm, 2 output		
Video Gain	From attenuation to amplifier 0.8 Vp-p to 1.4 Vp-p		
Video Bandwidth	20 MHz \pm 3dB		
Maximum Video Input	2.0Vp-p		
Crosstalk Input	Better than 40dB		
Switching Interval	1 to 35 sec.		
Channel Switches	Spot monitor: bypass/auto/manual (with manual override switcher) Sequence monitor: bypass/auto (fully automatic only)		
Power Consumption	1 Watt		
Video Connections	BNC connector		
Position & Power Lamp	LED		
Construction	Steel, with black baked enamel finish		
Operating Temperature	-5°C to +60°C		
Dimensions	438(W) x 44(H) x 245 (D) mm		
Weight	2.8Kgs		

VIDEO SWITCHERS

VIDEO SWITCHERS

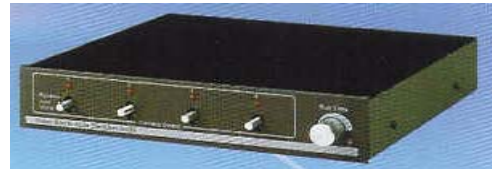
VIDEO ALARM SEQUENTIAL SWITCHERS:

Product No: GSD-ASSA4808



VIDEO ALARM AUTO SWITCHERS:

Product No: GSD-ASA4804



SPECIFICATION:

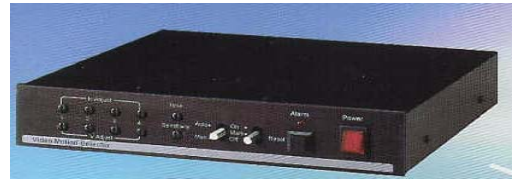
Model	GSD-ASSA4808	GSD-ASA4804
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz	
Video Input	1.0Vp-p/75ohm, 8 video Input and 8 Alarm Input	1.0Vp-p/75ohm, 4 video Input and 4 Alarm Input
Video Output	1.0Vp-p/75 ohm, 2 output	
Video Gain	From attenuation to amplifier 0.8 Vp-p to 1.4 Vp-p	
Video Bandwidth	20 MHz \pm 3dB	
Maximum Video Input	2.0Vp-p	
Crosstalk Input	Better than 40dB	
Switching Interval	1 to 35 sec.	
Channel Switches	Spot monitor: Bypass/Auto/, Manual (With manual override switch) Sequence monitor: Bypass/Auto (Fully Automatic)	Bypass/Auto/Manual
Power Consumption	2.25 Watts	
Video Connection	BNC connector	
Alarm In	Screw Terminal Detachable	
Alarm Out	NO/NC screw terminal detachable	
Position and Power Lamp	Led	
Construction	Steel, with black baked enamel finish	
Operating Temperature	-5°C to +60°C	
Dimensions	438(W) x 44 (H) x 245 (D) mm	
Weight	2.7Kg	

VIDEO SWITCHERS

VIDEO SWITCHERS

VIDEO MOTION DETECTOR:

Product No: GSD-MD200



Model	GSD-MD200
Input Voltage	AC117V/220V/230V/240V, 60Hz/50Hz
Video Input	1.0Vp-p/75 ohm, 1 input
Video Output	1.0Vp-p to 2.0Vp-p/75 ohm, 2 Outputs
Motion Detecting Window	4 Window
Video Connector	BNC Connector
Window Position	Individually Adjustable
Sensitivity	Adjustable
Window Display	Selectable ON/Mark
Alarm Indication	Alarm Indicator led, Buzzer Alarm
Alarm Output	Relay Contact (NO/NC), screw terminal-detachable, contact capacity: DC24V, 1A at resistance load, alarm output: 1-4, alarm on, Normal OFF
Reset	*Automatic, manual or remote set *Automatic Reset Time: 1-75 sec *Manual Reset: Reset Button *Remote Reset: External Remote Control
Power Consumption	7 Watts
Dimensions	218(W) x 44(H) x 200(D) mm
Construction	Steel, Black baked enamel finish
Weight	1.6 Kgs

VIDEO TIMER:

Product No: GSD-VT706



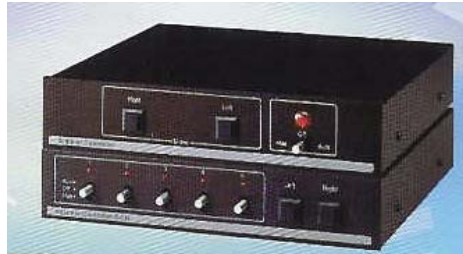
Model	GSD-VT706
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz
Video Input	1.0Vp-p/75 ohm, 1 input
Video Output	1.0Vp-p/75 ohm, 1 output
Time Generator	Year/Month/Day/Hour/Min/Sec/ID number
Video Connector	BNC Connector
Eht Impedance	8MHz
Power Consumption	1 Watts
Operating Temperature	-5°C to + 60°C
Construction	Steel, black baked enamel finish
Dimensions	218(W) x 44(H) x 200(D)mm
Weight	1.33 Kgs

VIDEO SWITCHERS

VIDEO SWITCHERS

SCANNER CONTROLLER:

Product No: GSD-SC407



MULTIPLE SCANNER CONTROLLER:

Product No: GSD-SC408

Model	GSD-SC407	GSD-SC408
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz	
Channel	1 Channel	5 Channels
Output Voltage To Scanner	AC24V/117V/220V	
Pan	Pushbutton, Left/Right	
Construction	Steel, Black baked enamel finish	
Operating Temperature	-5°C to + 60°C	
Dimensions	218(W) x 44(H) x 200(D) mm	
Weight	1.15 Kgs	1.43 Kgs

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PAN/TILT & ZOOM LENS CONTROLLER:

Product No: GSD-PTZ412



Model	GSD-PTZ412
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz
Output Voltage	AC24V/117V/220V
Pan/Tilt	Single Joypad Control
Lens Control	Paddle Switcher Control of Iris, Focus, Zoom
Autopan	Paddle switcher, Manual/Off/Automatic
Lens Connector	Screw Terminal-Detachable
Power Consumption	8.5 Watts
Pan/Tilt Connector	8 P mike connector
Operating Temperature	-5°C to + 60°C
Construction	Steel, black baked enamel finish
Dimension	218(W) x 44(H) x 200(D) mm
Weight	1.6 Kgs

VIDEO SWITCHERS

VIDEO SWITCHERS

VIDEO AMPLIFIER:

Product No: GSD-VA504

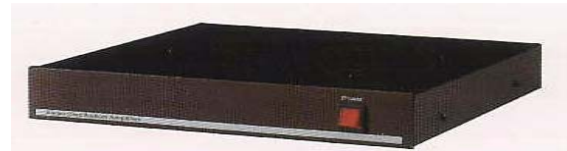


Model	GSD-VA504
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz
Video Input	1.0Vp-p to 2.0Vp-p/75 ohm, 1 Input
Video Output	0.4Vp-p to 2.0Vp-p/75 ohm, 1 Output
Maximum Video Gain	13dB
Maximum High Frequency	18dB
Gain/High Frequency	10MHz to 4.5 MHz \pm 3dB
Frequency Bandwidth	4.5 MHz
Power Consumption	1.82 Watts
Video Connector	BNC Connector
Construction	Steel, black baked enamel finish
Operating Temperature	-5°C to + 60°C
Dimensions	218(W) x 44(H) x 200(D) mm
Weight	1.35 Kgs

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VIDEO DISTRIBUTION AMPLIFIER:

Product No: GSD-VAD506



Model	GSD-VA506
Input Voltage	AC 117V/220V/230V/240V, 60Hz/50Hz
Video Input	1.0Vp-p/75 ohm, 1 input
Video Output	1.0Vp-p/75 ohm, 4 outputs
Video Gain	1 dB
Frequency Response	10Hz to 15MHz \pm 3dB
Bandwidth	1MHz to 15MHz \pm 3dB
Power Consumption	2.5 Watts
Video Connector	BNC Connector
Construction	Steel, Black baked enamel finish
Operating Temperature	-5°C to + 60°C
Dimensions	218(W) x 44(H) x 200(D) mm
Weight	1.45 Kgs

VIDEO SWITCHERS

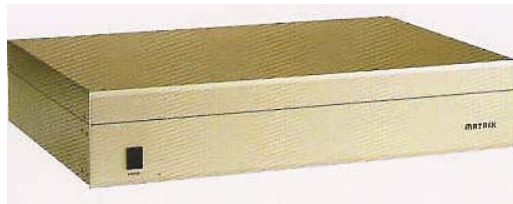
VIDEO SWITCHERS

VIDEO MATRIX SWITCHERS:

Product No: GSD-MS16

Product No: GSD-MS32

Product No: GSD-MS64



SPECIFICATION:

Model	GSD-MS16	GSD-MS32	GSD-MS64
Camera Input	16	32	64
Video Output	8	8	16
Alarm Port Input	16	32	64
Alarm Port Output	1	1	1
RS 485 - Control - Protocol	RS 485 Standard, 9600 baud 8 data bit, 1 stop bit, no parity		
Display Mode	1. Camera I.D. & Title (8 Characters) 2. Time & Date (MM/DD/YY) (HH/MM/SS)		
Frequency Response	10Hz to 60MHz \pm dB		
S/N Ratio	Better than 60dB		
Switching Interval	0 to 255 sec.		
Alarm Contact	N/O and N/C		
Input Voltage	AC117V/230V		
Power Consumption	1.2A		
Operation Temperature	-5°C to + 50°C		
Weight	5.7Kgs	5.7Kgs	8.0Kgs
Dimensions	434 (W) mm x 90(H) mm x 29D) mm		

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VIDEO SWITCHERS

VIDEO SWITCHERS

VIDEO MATRIX RECIEVER:

Product No: GSD-MR820



<i>Model</i>	<i>GSD-MR820</i>
<i>Video Input</i>	10Vp-p Composite, 75 ohm
<i>Video Output</i>	10Vp-p Composite, 75 ohm
<i>RS 485 Control</i>	RS 485 Standard, 9600 baud
<i>Protocol</i>	8 data bit, 1 stop bit, no parity
<i>Pan/Tilt Drive Voltage</i>	AC24V/117V/230V
<i>Lens Drive Voltage</i>	DC6V/12V (Zoom, Focus, Iris)
<i>Camera Power Supply</i>	DC12V/AC24V/117V/230V
<i>Power Consumption</i>	3A
<i>Receiver Control Cabling</i>	TP Type (Twisted Pair)
<i>Operating Distance</i>	1KM to 3KM (With extended interface)
<i>Operation Temperature</i>	-5°C to + 50°C
<i>Weight</i>	3.6 Kgs
<i>Dimensions</i>	310(W) mm x 130(H) mm x 230(D) mm

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VIDEO MATRIX KEYBOARD:

Product No: GSD-MK800



<i>Model</i>	<i>GSD-MK800</i>
<i>Input Voltage</i>	DC12V
<i>Power Consumption</i>	3Watts (250mA)
<i>Operation Temperature</i>	-5°C to + 50°C
<i>Weight</i>	1.2 Kgs
<i>Dimensions</i>	370(W) mm x 25/83(H) mm x 190(D) mm

QUADS

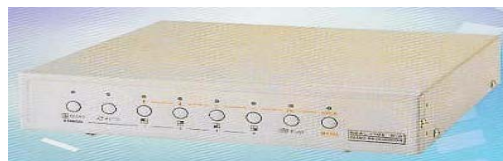
QUADS

Product No: GSD-QS601



Model	GSD-QS601
Camera Inputs	BNC x 4, composite video 1.0Vp-p, 75 ohms
Video Output	BNC x 1, composite video 1.0Vp-p, 75 ohms
Quad Output	BNC x 1, composite video 1.0Vp-p, 75 ohms
Digital Memory	1024 x 512
Display Rate	25 fields/sec.
Digital Quantize	8 bits (256 grey scale)
Dwell Time	Setting Up to 99 sec.
Operating Temperature	5°C to + 40°C
Power Source	12VDC, 200mA
Weight	1.4 Kgs.
Dimensions	210mm (L) x 220 (W) x 44mm (H)

Product No: GSD-QS626



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Model	GSD-QS626
Video Format	CCIR Monochrome Video Signal
Camera Input	BNC x 4 composite video 1.0Vp-p, 75 ohms
Video Output	Quad: 1 Vp-p composite video/75 ohms Monitor: Full screen or quad, 1 Vp-p composite video/75 ohms
Video Refresh Rate	50/60 field/second
Resolution (H x V)	Quad screen: CCIR = 320 x 288 Full screen: CCIR = 640 x 576
Auto Sequential Dwell Time	Adjustable: 0-30 sec. (3 seconds for initialize)
Zoom Display	2 x 2 Zoom
Time Generator	Built in Real Time Clock
Title Generator	Up to 8 characters for each channel
Quad Motion Detection	4 Motion Detect Window Size: 64(H) x 64(V) Pixel
Freeze Duration	Adjustable: 0-30 sec. (5 seconds for initialize)
Alarm Buzzer	Adjustable: 0-240 sec. (5 seconds for initialize)
Motion Interval	Adjustable: 0-15 sec. (5 seconds for initialize)
Alarm Relay Out	N.O/N.C (8 sec)
Power Supply	Dc12V with 10% tolerance
Power Consumption	400mA (max)
Dimension (L x W x H)	210 x 220 x 44mm

QUADS QUADS

Product No: GSD-CQ1026



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<i>Model</i>	<i>GSD-CQ1026</i>
<i>Video System</i>	Colour
<i>Picture Element (H x V)</i>	PAL: 720 x 576
<i>Video Refresh Rate</i>	60 field
<i>Field/sec.</i>	1Vp-p, 75 ohms, 4 channel input
<i>Camera Input</i>	1Vp-p, 75 ohms x 1
<i>VCR Output</i>	1Vp-p, 75 ohms x 1
<i>Monitor Output</i>	N.C./N.O. (Normally close or open)
<i>Alarm Output</i>	Built In
<i>Buzzer</i>	Keyboard Setting OSD Programmable
<i>Switch Dwell Time</i>	Preset OSD Programmable
<i>Alarm Setting</i>	External Alarm Input (D-sub 9)
<i>Alarm Trigger Input</i>	OSD Programmable
<i>Title/Time/Date</i>	AGC
<i>Gain Control</i>	Alarm
<i>Video Loss Detection</i>	Alarm or Freeze Image
<i>Power Requirement</i>	12VDC or 110VAC-230VAC
<i>Power Consumption</i>	6W
<i>Operating Temperature</i>	-10°C to 50°C
<i>Dimension (L x W x H)</i>	220mm x 200mm x 44mm
<i>Weight</i>	1.8 kgs

MULTIPLEXERS

MULTIPLEXERS

Product No: GSD-DC4TX

4 channel high resolution real time triplex multiplexer:

- Full capability triplex multiplexer allows video recording while viewing live images & playback images at the same time
- Duel systems for NTSC & PAL
- Multi screen real time display—full screen, quad, PIP
- Freeze & movable 2X zoom function support
- Video loss detection
- RS232
- 2-999 hour time lapse & external VCR trigger record support



Product No: GSD-DC9TX

9 channel high resolution real time triplex multiplexer:

- Full capability triplex multiplexer allows video recording while viewing live images & playback images at the same time
- Duel systems for NTSC & PAL
- Multi screen real time display—1 ch, 4 live split, 8 live split, 9 live split, 1 ch playback, 4PB split, 1PB/7 live split, 9PB split, 8 live/8PB split
- Freeze & movable 2X zoom function support
- Video loss detection. *****RS485 remote control
- 2-999 hour time lapse & external VCR trigger record support



Model	GSD-DC4TX	GSD-DC9TX
System	Accepts PAL	
Resolution	PAL: 768 x 512 pixels	
Video Input	4 synchronous B/W or colour cameras, 1Vp-p/75 ohms, 1 synchronous B/W or colour playback, 1Vp-p/75 ohms, S-VHS Y/C	9 synchronous B/W or colour cameras, 1Vp-p/75 ohms, 1 synchronous B/W or colour playback, 1Vp-p/75 ohms, S-VHS Y/C
Video Output	1 Monitor Output, 1Vp-p/75 ohms, 1 record output, 1Vp-p/75 ohms, 4 synchronous B/W or colour cameras with looping output, 1Vp-p/75 ohms	1 Monitor Output, 1Vp-p/75 ohms, BNC Female Connector or S-VHS Y/C, 1 record output, 1Vp-p/75 ohms, BNC Female Connector or S-VHS Y/C, 9 synchronous B/W or colour cameras with looping output, 1Vp-p/75 ohms, 1 call monitor output, 1Vp-p, 75 ohms, BNC female connector
Video Refresh Rate	50 Fields per second (PAL)	
Alarm Input	4 Dry Contact Alarm Inputs	9 Dry Contact Alarm Inputs
Alarm Output	1 NO and 1 NC Contact	
Time/Date	Built In Real Time Clock	
Record Time	2-999 hours time lapse external trigger	
RS232	Baud Rate 1200/2400/4800/9600	
Video Loss Detection	Yes	
Motion Detection	No	192 Target per Camera
Remote Control	RS232 (9 Pin DSUB)	RS485 (RJ11)
Dimension (L x W x H)	430mm x 343mm x 43mm	
Power Supply	5V 2A	+5V 5A
Power Consumption	9W max	15W max

MULTIPLEXERS

MULTIPLEXERS

Product No: GSD-DC16TX

16 channel high resolution real time triplex multiplexer:

- Full capability triplex multiplexer allows video recording while viewing live images & playback images at the same time
- Dual systems for NTSC & PAL
- Multi screen real time display—1 ch, 4 live split, 9 live split, 13 live split, 16 live split, 1 ch playback, 4PB split, 1PB/12 live split, 9PB split, 16PB split
- Freeze & movable 2X zoom function support
- Video loss detection.
- RS485 remote control
- 2-999 hour time lapse & external VCR trigger record support



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<i>Model</i>	GSD-DC16TX
<i>System</i>	Accepts PAL
<i>Resolution</i>	PAL: 768 x 512 pixels
<i>Video Input</i>	16 synchronous B/W or colour cameras, 1Vp-p/75 ohms, 1 synchronous B/W or colour playback, 1Vp-p/75 ohms, S-VHS Y/C
<i>Video Output</i>	1 Monitor Output, 1Vp-p/75 ohms, BNC Female Connector or S-VHS Y/C, 1 record output, 1Vp-p/75 ohms, BNC Female Connector or S-VHS Y/C, 16 synchronous B/W or colour cameras with looping output, 1Vp-p/75 ohms, 1 call monitor output, 1Vp-p, 75 ohms, BNC female connector
<i>Video Refresh Rate</i>	50 Fields per second (PAL)
<i>Alarm Input</i>	16 Dry Contact Alarm Inputs
<i>Alarm Output</i>	1 NO and 1 NC Contact
<i>Time/Date</i>	Built In Real Time Clock
<i>Record Time</i>	2-999 hours time lapse external trigger
<i>RS232</i>	Baud Rate 1200/2400/4800/9600
<i>Video Loss Detection</i>	Yes
<i>Motion Detection</i>	192 Target per Camera
<i>Remote Control</i>	RS485 (RJ11)
<i>Dimension (L x W x H)</i>	430mm x 343mm x 43mm
<i>Power Supply</i>	+5V 5A
<i>Power Consumption</i>	20W max

MULTIPLEXERS - REMOTE KEYBOARD

MULTIPLEXERS - REMOTE KEYBOARD

Product No: GSD-CK102

FEATURES:

- Support CCTV system control
- LCD display for menu setting
- Rubber keypad
- Friendly user interface
- Directly control fast speed domes or control through by multiplexer
- Implement many kinds of fast speed dome camera protocols
- Support many kinds of installing architectures
- Support RS-232 port to upgrade the latest firmware by PC
- Control every function of speed dome cameras, PTZ receivers, multiplexers
- Support many devices on the control bus, including 128 speed dome cameras or receivers, 4 remote keyboards (only one master keyboard at a physical install) , 16 multiplexers
- Built in real time clock generator



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<i>Power</i>	5 Volts DC
<i>Power Consumption</i>	2 Watt
<i>Control</i>	RS-485 (for device control) x 1 & RS-232 X 1 (for upgrade latest firmware)
<i>LCD Display</i>	20 x 2 Dot Matrix STN LCD with back lighting
<i>Keypad material</i>	Rubber Keypad
<i>Pan/Tilt control</i>	Pan Up/Down, Tilt Right/Left
<i>Lens Control</i>	Zoom IN/Out, Focus Near/Far/Auto, Iris Open/Close/Auto
<i>Camera Control</i>	Present point Call/Setup
<i>Multiplex Control</i>	Available
<i>Dimension</i>	300 (L) x 175 (W) x 65 (H)
<i>Operation Temperature</i>	0-70°C
<i>Operation</i>	Below 90%

INDOOR SCANNER & PAN TILT UNIT

INDOOR SCANNER & PAN TILT UNIT

Product No: GSD-IS402L—Indoor Scanner



<i>Rotation Angle</i>	350° Max. Automatic Scan
<i>Tilt Angle</i>	± 90°
<i>Pan Speed</i>	Approx. 4° /Sec.
<i>Limit Stop</i>	Externally Adjustable
<i>Maximum Load</i>	7kgs
<i>Motor Output</i>	3 Watts Max
<i>Normal Operating Current</i>	24V, 117V/220V (Option)
<i>RPM</i>	2 Rounds
<i>Cable Requirement</i>	4-Conductor, Unshielded
<i>Input Voltage</i>	AC24V/117V/220V (Option)
<i>Environment Operating Temperature</i>	-25°C to + 60°C
<i>Construction</i>	Plastic-Steel, Light Grey Textured
<i>Dimension</i>	115(H) x 119(Ø) X mm
<i>Weight</i>	0.9kgs

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Product No: GSD-IPT403—Indoor Pan/Tilt



<i>Angular Travel</i>	Pan: 350° Tilt ±60°
<i>Limit Stop</i>	Externally Adjustable
<i>Speed</i>	Pan: 4° /Sec Tilt: 3° /Sec
<i>Load Rating</i>	Pan: 7kgs Tilt: 4kgs
<i>Duty Cycle</i>	Pan: Continuous Tilt: Intermittent
<i>Cable Requirement</i>	6-Conductor, Unshielded
<i>Operation Humidity</i>	35% ~ 90% RH
<i>Finish</i>	Light Grey Textured
<i>Input Voltage</i>	AC24V/117V/220V (Option)
<i>Operating Temperature</i>	-25°C to + 60°C
<i>Construction</i>	Aluminium and Plastic
<i>Dimension</i>	184(H) x 115(Ø) mm
<i>Weight</i>	1.9kgs

INDOOR SCANNER & PAN TILT UNIT

INDOOR SCANNER & PAN TILT UNIT

Product No: GSD-PT405—Outdoor Pan/Tilt



<i>Angular Travel</i>	Pan: 360° ±2° Tilt: 90°
<i>Rotation Speed</i>	Pan: 6° /Sec Tilt: 3° /Sec
<i>Maximum Loading</i>	15kgs
<i>Construction</i>	Aluminium
<i>Power Supply</i>	24VAC, 110VAC, 230VAC, 50/60Hz
<i>Power Consumption</i>	600mA
<i>Operating Temperature</i>	-20°C to + 60°C
<i>Dimension</i>	256 x 225 x 181 mm

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PC HARDWARE

PC HARDWARE

Please note PC Hardware is available from £500.00 plus Vat

INSTALLATION & MAINTENANCE CONTRACTS

INSTALLATION & MAINTENANCE CONTRACTS

Installation & a range of maintenance contracts are available for all products shown in our catalogues. Please contact us for more information or see labour rates below:

Trading Hours	Rates Per Hour	Notes
<i>Monday to Friday</i>		
09.00 to 17.30 hrs	35.00	Standard time
17.31 to 24.00 hrs	52.50	Premium time
00.01 to 08.59 hrs	70.00	Double time
06.00 to 08.59 hrs	52.50	Early start rate only
Call out charge (includes first hours labour)		75.00
<i>Saturday</i>		
09.00 to 13.00 hrs	52.50	Premium time
13.01 to 24.00 hrs	70.00	Double time
<i>Sunday</i>		
00.01 to 24.00hrs	70.00	Double time
Weekend & bank holiday call out charge (includes first hours labour)		125.00
<i>Bank Holidays</i>	70.00	Double time
Accommodation charge		75.00
Mileage	0.57 p/m	

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SPLICING

SPLICING

Multimode splices available from £20.00 per splice
Single mode splices available from £25.00 per splice

Please contact us for more information

ALL PRICES EXCLUDE VAT @ 17.5%

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