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Create a safer, more secure environment

Today more than ever, Closed Circuit Television (CCTV) is playing a vital role in the safeguarding of people, property and other assets.

With increasing public awareness of the threats of terrorism, assault, vandalism and theft, the security of every citizen is a higher priority than ever for public authorities as well as commercial organisations. From banks, offices, hospitals and schools to shopping malls, airports, stations and other public areas, a discreet monitoring presence offers the valuable round-the-clock reassurance of a safer, more secure environment.

As a leader in CCTV and network video monitoring, Sony offers a complete range of products that make it easier than ever to create exactly the right solution to meet your current and future needs.

From latest-generation network video cameras, file servers and RealShot camera management software to digital video recorders, monitors, printers and accessories, you'll find that every Sony CCTV product has been designed with performance, reliability and ease of integration in mind.

Whether you're looking to expand your existing CCTV installation or create an all-new network-based monitoring solution with powerful image distribution and control capabilities, Sony products can enhance the value of your current investments while delivering flexible new monitoring possibilities. Best of all, every CCTV product comes with the back-up and peace of mind that you'd expect from Sony.

Visit us at www.sonybiz.net for more information on our complete range of CCTV and video surveillance products as well as case studies, white papers, special offers and more. Alternatively, talk to your local Sony office or security systems specialist. They'll be delighted to tell you more about the capabilities of Sony CCTV products and help you create a video monitoring solution that's flexible, reliable and remarkably cost-effective.

Network Video Monitoring

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SNC-RZ30P

Network Video Pan-Tilt-Zoom Camera

- IP network colour video camera with integrated Direct Drive pan/tilt/zoom mechanism and autofocus lens with 25x optical zoom
- High quality full motion colour video up to 25 fps at VGA resolution (640 x 480) thanks to M-JPEG picture compression
- PC card slot for onboard event storage or optional Wireless LAN
- Embedded web server and web page for simple set-up and control
- Day/night function switches to black & white mode in low light conditions for greater sensitivity
- Activity detection and automatic picture store/send for unattended operation





SNC-CS3P

Network Video Camera

- IP network colour video camera with auto iris vari-focal lens (focal length: 3.5 to 8.0 mm)
- 1/3 type CCD sensor with ExwaveHAD™ technology offers extremely high sensitivity of 0.5 lux at F1 0
- Full motion video up to 25 fps at VGA resolution (640 x 480) thanks to M-JPEG picture compression
- Embedded IP server and web page for simple set-up and control
- Embedded activity detection and alarm trigger functions
- PAL composite video output for local analogue viewing or recording





SNC-Z20P

Network Video Camera

- IP network colour video camera with integrated 18x optical zoom lens for excellent resolution of fine detail
- 1/4 type CCD sensor with ExwaveHAD™ technology offers extremely high sensitivity: 0.7 lux in colour mode, 0.01 lx (F1.4, 50 IRE, Slow Shutter OFF) in B/W mode
- Power-over-Ethernet allows power to be supplied via the Ethernet CAT5 cable
- Added functionality via on-board PC card slot for onboard event storage or optional Wireless LAN for greater installation flexibility
- Day/night function switches to black & white mode in low light conditions for greater sensitivity
- PAL composite video output for local analogue viewing or recording



SNC-RZ25P

JPEG/MPEG-4 Network Video Pan-Tilt-Zoom Camera

- Precise, high-speed pan/tilt/zoom mechanism with integral 18x auto-focus zoom lens
- High quality and high sensitivity (0.7 lux, F1.4) with ExwaveHAD™ technology
- Day/Night function
- Added functionality provided through Compact Flash slot and Memory Stick slot for image storage or Wireless LAN (IEEE802.11b) through optional Sony wireless LAN card (SNCA-CFW1) for greater installation flexibility
- Half duplex audio through built-in or external microphone input and audio line out
- Unattended operation thanks to built-in motion detection



SNC-DF70P

Day/Night Network Mini-Fixed Dome Camera

- JPEG/MPEG-4 network colour video camera integrated in IP66 compliant rugged aluminium cast housing and polycarbonate cover for protection against rain and vandalism
- Power-over-Ethernet allows power to be supplied via an Ethernet CAT5 cable
- Removable infrared filter delivers clear Black & White pictures at night or under IR illumination
- Multicasting capability supported and Adaptive Rate Control for stable image transmission
- Half duplex audio through built-in or external microphone input and audio line out
- Built-in motion vector activity detection permits unattended operation
- Analogue composite video output



SNC-P5

Network MPEG-4 Video Pan-Tilt Camera

- All-in-one JPEG/MPEG-4 network colour video camera with integrated Pan-Tilt control capability (Pan: -70 to +70 degrees / Tilt: -70 to 0 degrees and 3x optical zoom)
- Wireless transmission through optional Sony wireless LAN card (SNCA-CFW1)
- High quality image transmission even over limited bandwidth network connection (e.g. only 500 kbps needed for 25 images per second)
- 1/4 type, 330K pixels progressive scan CCD for superb picture detail
- Two-way audio communication enhances appeal for remote monitoring applications
- Smart motion detection permits unattended operation
- External sensor input, alarm output and E-mail alarm notification function





SNC-DF40P

Network Mini-Fixed Dome Camera

- JPEG/MPEG-4 network colour video camera with integral dome enclosure
- Built-in CS Mount auto iris vari-focal lens (f=3 to 8 mm from F1.0) for optimised coverage of any viewing area
- Multicasting capability supported and Adaptive Rate Control for stable image transmission
- Half duplex audio through built-in or external microphone input and audio line out
- Built-in motion vector activity detection permits unattended operation
- PAL composite video output for local analogue viewing or recording





SNC-P1

MPEG-4 Network Video Camera

- All-in-one JPEG/MPEG-4 network colour video camera with embedded IP server and web page for simple set-up and control
- High quality image transmission even over limited bandwidth network connection (e.g. only 500 kbps needed for 25 images per second)
- 1/4 type, 330K pixels progressive scan CCD for superb picture detail
- Two-way audio communication enhances appeal for remote monitoring applications
- Smart motion detection enables unattended operation
- External sensor input, alarm output and E-mail alarm notification function



SNC-M1/M1W

MPFG-4 Video Network Camera

- All-in-one JPEG/MPEG-4 network colour video camera with embedded IP server and web page for simple set-up and control
- Wireless LAN connection for easy installation (SNC-M1W only)
- Incorporates 1/4 type, 310k pixels (VGA) CMOS sensor
- Two-way audio transmission (built-in microphone, external microphone input and audio line output for active speakers)
- Sends email to specified address on alarm trigger
- Simple to install





SNT-V501/V504

Video Network Station

- Converts four analogue video signals to M-JPEG digital format for IP transmission (single channel for SNT-V501)
- Simple integration of analogue video cameras into IP networks
- Onboard picture storage reduces network bandwidth overheads
- Supports wireless transmission (optional) for areas where cabled network coverage is difficult or non-existent
- Built-in activity detection enables unattended operation
- Can be used as a standalone event recorder
- High refresh rates provide full motion video (25 fps) at VGA resolution





SNT-V501



SNT-V504

SNC-M3/M3W

MPEG-4 Video Network Pan-Tilt Camera

- All-in-one JPEG/MPEG-4 network colour video camera with integrated Pan-Tilt control capability (Pan: -60 to +60 degrees / Tilt: +10 to -60 degrees)
- Wireless LAN connection for easy installation (SNC-M3W only)
- Incorporates 1/4 type, 310k pixels (VGA) CMOS sensor
- Two-way audio transmission (built-in microphone, external microphone input and audio line output for active speakers)
- Sends email to specified address on alarm trigger
- Simple to install





FSV-IPM1

Network Video Recorder

- Scalable application server with 500 GB storage capacity- ideal for networked video recording
- Dual Ethernet ports (100/1000 Mbit/s)
- Allows onward distribution of video recordings using built-in DVD burner (DVD-ROM/-R/-RW/RAM CD-ROM/-R/-RW)
- Compact size, ultra-slim 1U rack
- Intel Pentium 4 Processor, 2.4 GHz CPU with 512 MB RAM
- WindowsXP[™] Professional operating system pre-installed



FSV-RSM9/FSV-RSM16

9-channel/16-channel Network Video Recorder

- Scalable, 'all-in-one' network video recording server with RealShot™ Manager pre-installed which manages/records up to 9 (FSV-RSM9) or 16 (FSV-RSM16) networked video sources
- Ideal for server-client architecture, allowing remote access to live and recorded pictures via network
- Unattended recording over long periods thanks to 500 GB storage capacity: e.g. 10 days recording for 9 cameras at 6 fps, 24hrs/day at CIF resolution
- Dual Ethernet ports (100/1000 Mbit/s)
- Compact size, ultra-slim 1U rack mount
- Allows onward distribution of video recordings using built-in DVD burner (DVD-ROM/+R/-RW /RAM CD-ROM/ +R/-RW)



RSM-AIC

Stand-Alone Audio Network System

- Networked intercom system
- Ideal for monitoring building entrances or doorways by providing combined intercom and alarm functionality
- Integrates seamlessly with Realshot™ Manager for audio recording and monitoring
- 2 Inputs for control of other building functions (e.g. 'Talk' and 'Door' buttons)
- Audio input via on-board microphone or Line input
- Audio out through Headphone/Line Out



FSVM51000W

Network Application Server

- Ideal application server for hard drive space demanding applications such as video surveillance systems
- Ultra-slim 1U rack mount
- 1000 GB (4 x 250 GB) Hotswappable hard drives
- Hardware RAID, user area RAID 0, 1 and 5. OS area RAID 0+1
- Intel Pentium 4 Processor, 2.4 GHz CPU with 512 MB RAM
- 24x CD-ROM drive
- Dual 10 BaseT/100 BaseTX/1000 BaseT Ethernet ports for uninterrupted performance in the event of one port failing
- Embedded SCSI interface for backup devices





IMZ-RS Series

RealShot Manager Monitoring and Control Software

- Management software to control, monitor and manage networked video installations on single or multiple sites
- Tailor made on-screen layouts offer intuitive, interactive representation of entire surveillance/monitoring system
- Full Server/Client support optional Client software allows monitoring of unlimited number of sites and cameras while RSM web client allows monitoring from any PC on the network
- Extremely flexible video recording functionality, recording up to 350 fps
- Advanced search GUI makes it quick and easy to retrieve recordings
- I/O functionality to manage alarms, doors and other switch operated devices
- One year PrimeSupport telephone helpline

Video Cameras Video Cameras

SSC-DC50AP/SSC-DC54AP/SSC-DC58AP

CCD Colour Video Camera

- 1/2 type IT CCD with ExwaveHAD technology offers extremely high sensitivity (0.8 lux at F1.2, 50 IRE) and low smear level (-120 dB)
- 470 lines of horizontal resolution
- Smart Control for fast backlight compensation
- ATW PRO/ATW/AWB/preset colour temperature settings - ATW PRO mode ensures reliable white balance control based on the absolute colour temperature of the object (The effective operational colour range is 2500 K to 6000 K)
- SSC-DC50AP supports single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W170P/W270P camera adaptor









SSC-DC50AP SSC-DC54AP SSC-DC58AP

SSC-DC593P/SSC-DC598P

Day/Night Video Camera

- 1/3 type IT CCD offering 480 lines of horizontal resolution
- Wide dynamic range with DynaView technology - ideal for obtaining clear colour images under severe lighting conditions
- Day/Night mode increases camera sensitivity allowing images to be viewed even in low light conditions
- White balance: ATW PRO/ATW/ 3200K/5600K/MANUAL/DUAL WB switchable - Dual white balance mode gives high quality colour reproduction of indoor and outdoor scenes under different colour temperatures
- Built-in activity detection and alarm trigger functions
- On-screen set up menu supports Privacy Zone Masking function and two preset memories for camera settina







SSC-DC598P

YS-W170P/YS-W270P

Camera Adaptor

- Used with SSC-DC50AP
- Transmits DC power and video/sync signal between the adaptor and camera over a single coaxial cable
- Up to four cameras can be connected (one camera for YS-W170P)
- Internal or external synchronisation with MPX-VS or MPX-VD
- Maximum cable length: 600 m with RG-11A/U (7C-2V) coaxial cable







SSC-DC578P

SSC-DC573P/

Dynaview Colour Video Camera

- Extremely wide dynamic range with DynaView™ technology for clear images even with strong backlight
- 1/3 type CCD offering 480 TV lines and high sensitivity of 0.8 lux
- CCD IRIS function removes need for expensive automatic lens
- Auto Tracing White (ATW) function ensures consistent colour balance
- Turbo AGC function boost gain to 24dB for better resolution of subject
- In-built activity detection/alarm
- Privacy zone masking
- Gamma correction for precise image settina





YS-W170P





Video Cameras Video Cameras

SSC-E473P/SSC-E478P

High Resolution Day/Night Camera

- Day/Night camera providing optimised sensitivity in both day and night shooting scenarios with near-infrared sensitivity in night-mode
- State-of-the-Art SuperExwave[™] CCD technology achieving extremely high sensitivity levels minimum illumination of 0.55 lux at F1.2 in colour mode and 0.05 lux at F1.2 in B/W mode.
- Newly-developed innovative DSP technology generating a horizontal resolution of 540 TV lines
- New slim and stylish design
- External Day/Night control input and Day/Night control output terminal
- Wide Auto Tracing White Range ATW Pro & ATW





SSC-E473P



SSC-E478P

SSC-DC372P/SSC-DC378P

High Resolution Colour Camera

- 1/3 type IT CCD with SuperHAD technology offering 480 lines of horizontal resolution
- High sensitivity 0.8 lux at F1.2 (50 IRE)
- Backlight compensation (ON/OFF switchable)
- Wide range CCD IRIS (ON/OFF switchable, 1/50 to 1/100,000)
- CCD IRIS function allows for the use of low cost manual iris lenses
- Auto Tracing White Balance (ATW) and Turbo AGC (ON/OFF switchable)





SSC-DC372P



SSC-DC378P

SSC-E453P/ SSC-E458P

High Resolution Colour Camera

- State-of-the-Art SuperExwave™ CCD technology achieving extremely high sensitivity levels providing a minimum illumination of 0.55 lux at F1.2
- Newly-developed innovative DSP technology generating a horizontal resolution of 540 TV lines
- New slim and stylish design
- Wide Auto Tracing White Range ATW Pro & ATW
- Backlight compensation and Turbo AGC: ON/OFF switchable
- Wide range CCD IRIS (ON/OFF switchable, 1/50 to 1/100,000s)





SSC-DC198P

Standard Resolution Colour Camera

- 1/3 type IT SuperHAD CCD offering 330 lines of horizontal resolution
- High sensitivity 0.6 lux at F1.2 (50 IRE)
- Backlight compensation and ATW supported
- BLC and Turbo AGC (ON/OFF switchable)
- Wide range CCD IRIS (ON/OFF switchable, 1/50 to 1/100,000s)
- AC 220-240 V power operation



SSC-E453P



Video Cameras Video Cameras

SSC-DC172P

Standard Resolution Colour Camera

- Low cost standard resolution colour camera - 330 lines of horizontal resolution
- High sensitivity 0.6 lux at F1.2 (50 IRE)
- Backlight compensation and ATW supported
- BLC and Turbo AGC: ON/OFF switchable
- Wide range CCD IRIS (ON/OFF switchable, 1/50 to 1/100,000s)
- DC 12V power operation





SSC-M183CE/SSC-M188CE

Black and White Camera

- 1/3 type IT SuperHAD CCD technology providing 380 lines of horizontal resolution
- High sensitivity 0.06 lux at F1.2 (50 IRE)
- Backlight compensation (ON/OFF switchable)
- Turbo AGC (up to 24 dB): ON/OFF switchable
- Wide range CCD IRIS (ON/OFF switchable, 1/50 to 1/100,000)
- CCD IRIS function allows for the use of low cost manual iris lenses







SSC-M183CE

SSC-M188CE

SSC-M383CE/ SSC-M388CE

Black and White Camera

- 1/3 type IT CCD with ExwaveHAD technology providing extremely high sensitivity 0.07 lux at F1.2 (50 IRE)
- 570 lines of horizontal resolution
- Backlight compensation (ON/OFF switchable)
- Turbo AGC (up to 24 dB): ON/OFF switchable
- Wide range CCD IRIS (ON/OFF switchable, 1/50 to 1/100,000)
- CCD IRIS function allows for the use of low cost manual iris lenses



SSC-CD73VP

Day/Night Mini Fixed Dome Camera

- Rugged aluminum cast housing and polycarbonate cover
- 1/4 type IT SuperHAD CCD offering 480 lines of horizontal resolution
- Built-in CS Mount auto iris vari-focal lens (f=3 to 8 mm from F1.0)
- Day/Night function through removable IR filter to switch from colour to black and white mode with IR corrective lens for clear pictures under IR illumination
- High sensitivity of 0.9 lux (F1.0, 50 IRE, AGC ON) in colour and 0.2 lux (F1.0, 50 IRE, AGC ON) in B&W
- Rain-proof (IP66 compliant)







SSC-M383CE

SSC-M388CE

SSC-CD43VP

Colour Mini Fixed Dome Camera

- 1/4 type IT SuperHAD CCD offering 480 lines of horizontal resolution
- Built-in CS Mount auto iris vari-focal lens (f=3 to 8 mm from F1.0)
- High sensitivity of 0.9 lux (F1.0, 50 IRE, AGC ON)
- Turbo AGC (6 dB more gain than conventional gain): TURBO/ NORMAL/OFF switchable
- Backlight compensation (ON/OFF switchable)
- ATW (2,200 to 10,000K)



Video Cameras Video Recorders

EVI-D100P

Pan-Tilt-Zoom Colour Video Camera

- Easy set-up: no video or lens adjustment
- Pan, tilt & zoom functionality
- Quiet operation
- 40x zoom ratio
- Six position presets with battery back-up
- Auto sleep function





HSR-X206P

6-channel Digital Surveillance Recorder

- Built-in 6 channel multiplexer function providing full frame rate monitoring per camera in multi-screen display
- High picture quality M-JPEG compression with large 320 GB storage capacity
- Built-in network interface
- Embedded Activity Detection
- Five advanced search methods
- Image downloading via CompactFlash slot







EVI-D70P



EVI-D70PW

EVI-D70P/ EVI-D70PW

Pan-Tilt-Zoom Colour/ Monochrome Video Camera

- 1/4 type IT Exview HAD CCD offering 460 lines of horizontal resolution
- High zoom ratio AF lens (18x optical + 12x digital zoom)
- Excellent low-light sensitivity (min. illumination less than 1 lux)
- Wide range pan/tilt (340° pan / 120° tilt)
- Desktop or ceiling mount installation using E-Flip function
- Full remote control support via RS-232C or RS-422
- Auto day/night function





HSR-X209P





HSR-X216P

HSR-X209P/X216P

Multi-channel Digital Surveillance Recorder

- Hard disk recorder with built-in multiplexing capability – up to 16 camera inputs (9 with HSR-X209P) can be recorded and monitored independently
- High resolution (more than 500 TV Lines) & high picture quality recording and playback
- Large-capacity 320 GB (2 x 160 GB) HDDs (ATA/ATAPI-5 Standard)
- High refresh rate of 50 fields per second
- Network capability through optional network card
- Intelligent search functions

SVT-N24

Time-Lapse Video Recorder

- 3, 12, 24 hour recording/playback modes (E-180)
- Compact size only 240 mm (91/2 inches) wide
- Adaptive Picture Control (APC)
- Audio recording in 3, 12 or 24 hour
- Record check, alarm log, alarm scan capabilities





SVT-RA96P

Time-Lapse Video Recorder

- Sony 'RealAction' technology allows high density recording of 16.6 fields per second in 24-hour mode
- Maximum 96-hour time lapse recording mode is available with a 180-minute tape
- Adaptive Picture Control (APC)
- Audio recording in 6, 18, 30-hour modes (E-180) and in 8, 24, 40-hour modes (E-240)
- Multiple recording modes such as Auto Repeat Recording, Timer Recording, Alarm Recording and Series Recording
- Record check, alarm log and alarm scan capabilities





SVT-N72P

Time-Lapse Video Recorder

- 4 different time lapse recording/playback modes
- Adaptive Picture Control (APC)
- Fast forward and rewind: 100 seconds with an entire E-180 tape
- Multiple recording modes such as Auto Repeat Recording, Timer Recording, Alarm Recording and Series Recording
- Record check, alarm log and alarm scan capabilities
- Optional RS-232C/RS-485 interface



HSR-DCT

Video and Telemetry Virtual **Control Panel**

- Graphic, back-lit, 320 x 240 pixel touch panel display
- Allows customisation of up to 30 site
- Three-axel joystick allows simple manual Pan-Tilt-Zoom control
- Two independent RS-485 telemetry control ports to interface with the most common high speed domes
- Manufactured by Videotec S.R.L.
- For use with:
 - HSR-X209P
 - HSR-X216P
 - YS-DX516P



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Video Monitors Printers

SSM-20L1

Colour Video Monitor

- 20-inch colour video monitor (viewable area, measured diagonally)
- Trinitron CRT provides a high resolution of 600 TV lines
- Beam current feedback circuit for stable colour reproduction
- Two selectable composite and Y/C inputs
- Colour temperatures can be selected from high, low or users' preset data (adjustable between 5,000K and 10,000K)
- Parallel remote control capability





SSM-14L1

Colour Video Monitor

- 14-inch colour video monitor (viewable area, measured diagonally)
- Trinitron CRT provides a high resolution of 600 TV lines
- Beam current feedback circuit for stable colour reproduction
- Two selectable composite and Y/C inputs
- Colour temperatures can be selected from high, low or users' preset data (adjustable between 5,000K and 10.000K)
- Parallel remote control capability



Colour Video Printer

- A5 size print in approx. 22 seconds
- 2048 dots thermal head and high resolution of 300 dpi
- 8 bit (256 gradations) for each colour
- RGB, Y/C, and composite video inputs
- Wired and wireless remote controls with the optional RM-5500 remote control
- External control via RS-232C interface









UP-21MD

Colour Video Printer

- Resolution of 403 dpi for high picture quality
- Photo-quality prints with Sony dye sublimation printing technology
- A6 size colour print in approx. 17 seconds
- Compact design
- 2 or 4 split prints mode (four frame memories capability)
- Accepts and outputs an analogue RGB, S-Video (Y/C) or composite video signal

UP-D23MD

Digital Colour Printer

- Resolution of 403 dpi for high picture quality
- Photo-quality prints with Sony dye sublimation printing technology
- A6 size colour print in approximately 19 seconds
- Compact design
- USB interface (Version 2.0)
- Resize-to-fit feature allows users to enlarge images of VGA (640 x 480 dots), SVGA (800 x 600 dots) and XGA (1024 x 768 dots) to approximately 1,520 x 1,144 dots size image* or approximately 2,000 x 1,520 dots size image*



** When using the UPC-21L print media





UP-D895

Digital Black & White Printer

- USB (version 1.0) and Parallel (IEEE1284) interfaces
- Resize-to-fit feature to enlarge images for printing
- Resolution of 325 dpi and 256 steps of grey level for high picture quality
- High-speed printing of approximately 3.8 seconds
- Multiple print modes available for a variety of applications
- Compact, space-saving design









UP-960CE

Black & White Video Graphic Printer

- Thermal video graphic printer with 256 steps of gray level
- Large print size EIA standard (NTSC): 184 x 243 mm at side direction print mode, 190 x 144 mm at normal direction print mode; CCIR standard (PAL): 181 x 243 mm at side direction print mode, 190 x 142 mm at normal direction print mode
- High-speed printing of 12 seconds
- Multiple print modes; Standard, Side and 2-split (different images) print modes

Network Video Cameras

	SNC-RZ30P	SNC-Z20P
	5140-112001	5140-2251
GENERAL	1.2 kg (2 lb. 10 cz.)	Approx 200 g /2 lb 10 cz)
Mass Dimensions (W x H x D)	1.2 kg (2 lb. 10 oz.) 140 x 175 x 144 mm (5 56" x 7" x 5 34")	Approx. 800 g (2 lb. 10 oz.)
Power requirements	140 x 175 x 144 mm (5 %" x 7" x 5 ¾") DC 12 V via AC adaptor (100 to 240 V)	80 x 77 x 177 mm (5 1/8" x 3" x 7") DC 24 V AC 50/60 Hz, 12 V DC, PoE
Power consumption	21.6 W	9 W max.
Operating temperature	0 °C to +40 °C (32 °F to 104 °F) -20 °C to +60 °C (-4 °F to 140 °F)	0 °C to +40 °C (32 °F to 104 °F) -20 °C to +60 °C (-4 °F to 140 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to 140 °F)	-20 °C to +60 °C (-4 °F to 140 °F)
Operating humidity	20% to 80% Non-condensing 20% to 95% Non-condensing	20% to 80% Non-condensing 20% to 95%, Non-condensing
Storage humidity	20% to 95% Non-condensing	20% to 95%, Non-condensing
IMAGE DATA	M IDEO	M IDEO
Compression ratio	M-JPEG 1/5 ~ 1/60 (10 steps)	M-JPEG 1/5 ~ 1/60 (10 steps)
Image Resolution	736 x 544 (Auto), 736 x 544 (Frame),	736 x 544 (Auto), 736 x 544 (Frame),
mago nocolation	736 x 544 (Field).	736 x 544 (Field).
	640 x 480 (Auto), 640 x 480 (Frame), 640 x 480 (Field), 320 x 240, 160 x 120	640 x 480 (Auto), 640 x 480 (Frame), 640 x 480 (Field), 320 x 240, 160 x 120
	640 x 480 (Field), 320 x 240, 160 x 120	640 x 480 (Field), 320 x 240, 160 x 120
Frame rate	Max. 25 fps (640 x 480)	Max. 25 fps (640 x 480)
CAMERA		
Imager	1/6 type Interline Transfer SuperHAD CCD	1/4 type ExwaveHAD CCD
Pixels	800,000	440,000
Electronic shutter	1 /3 to 1/10,000 sec	Auto/Manual (1 to 1/10,000 sec)
Exposure	Auto [Full Auto (including backlight compensation), Shutter-priority,	Auto, Shutter-priority, Iris-priority, Manual (Backlight compensation is
	lris-priority] and manual	switchable except in Manual mode)
White balance	Auto, ATW, Indoor, Outdoor,	Auto, Indoor, Outdoor, One Push
	One-push (trigger command), Manual	White Balance, ATW, Manual
EV Compensation	-1./5 to +1./5 (15 steps)	_
Iris	Auto/Manual (F1.6 to close)	Auto/Manual (F1.4 to Close)
Gain	Auto/Manual (-3 dB to 28 dB)	Auto/Manual (-3 dB to 28 dB)
Focus mode	Auto/Manual (Near, Far, One-push Auto Focus)	Auto/Manual (Near, Far, One Push Auto Focus)
LENS		
Zoom Ratio	25 x optical zoom, 300 x with digital zoom	x 18 (infinite)
Horizontal viewing angle	2.0° to 45° f = 2.4 mm to 60 mm	2.7° to 48°
Focal length F-number	F1.6 (Wide), F2.7 (Tele)	f = 4.1 mm to 73.8 mm F1.4 (Wide), F3.0 (Tele)
Minimum object distance	Tele: 800 mm, Wide: 30 mm	Tele: 800 mm, Wide: 10 mm
William Object distance	icic. coo iiiii, wide. co iiiii	(factory preset is 290 mm)
PAN/TILT		
Pan angle	-170° to +170°	_
Pan speed	2 sec./340°	_
Tilt angle	-25° to +90°	_
Tilt speed	1.5 sec./115°	_
INTERFACES		
Ethernet	10 Base-T / 100 Base-Tx (RJ-45)	10 Base-T/100 Base-TX (RJ-45)
PCMCIA	Type II x 2	Type II x1
Sensor and I/O	Sensor input x 3, Sensor output x 2	Sensor input: make contact (photo coupler
		input electrically isolated from the camera)
		Alarm output 1 and 2: 24 V DC or less, 1 A (mechanical relay outputs
		electrically isolated from the camera)
Video Output	Analogue composite (BNC x 1)	VIDEO OUT: BNC, 1.0 Vp-p, 75 Ω
ridos odipar	ratalogue composite (Bite x 1)	unbalanced, sync negative
Serial I/F	RS-232C/RS-485 transparent port	RS-232C transparent port
ANALOGUE VIDEO OUTPUT		
Signal system	PAL	PAL
Sync system	Internal	Internal
Horizontal resolution	480 TV lines	460 TV lines
S/N ratio	Better than 48 dB	50 dB
Minimum illumination	Colour: 3 lux at F1.6 (50 IRE),	Colour: 0.7 lux or less
	B&W: 0.18 lux at F1.6 (50 IRE)	(AE mode, slow shutter off) B&W: 0.01 lux
		(F1.4, 50IRE, Slow shutter OFF)
		(F1.4, JOINE, Slow Stidtler OFF)
SYSTEM/NETWORK	20 hit DICO Eh-dd-d	00 bit BICC
CPU Embadded fleeb memery	32 bit RISC Embedded processor	32-bit RISC processor
Embedded flash memory RAM	32 MB (includes 8 MB alarm buffer) 32 MB (includes 8 MB alarm buffer)	8 MB 32 MB (incl. built-in image
ION	32 MD (Includes o MD alam buller)	memory of about 8 MB)
Browser	MS Internet Explorer v 5.5 and 6.0	MS Internet Explorer v 5.5 and 6.0
	(Windows98/ME/NT4.0/2000)	(Windows98/98SE/ME/NT4.0/2000/XP)
	,,	Pocket PC Internet Explorer.
		(Pocket PC 2002)
Security	IP-filtering, Password protection	IP-filtering, Password protection
Protocols supported	TCP/IP, HTTP, ARP, ICMP, DHCP,	TCP/IP, HTTP, ARP, ICMP, DHCP,
Cumplied conser	FTP, SMTP and SNMP (Standard MIB)	FTP, DNC, NTPand SNMP (MIB-2)
Supplied accessories	Ceiling mount kit, AC power adaptor, AC power cable, CD-Rom (Set up	CD-ROM (setup program and
	AC power cable, CD-Rom (Set up programme and User'sguide), I/O receptacle,	User guide), Wire rope, Shoulder screw M4, Installation Manual
	Installation manual, Ferrite core	ociow ivi4, iliotaliauUli Waliual
Optional accessories	MSA-64A Memory Stick (64 MB)	Memory Stick MSA-128 A (128 MB)
·, · · · · · · · · · · · · · · · · · ·	MSAC-PC2 Memory Stick/PC Card Adaptor	Memory Stick PC card adaptor MSAC-PC3
	\$ 11.5 to 1.5 to	Wide conversation lens VCL-0637H

Network Video Cameras

	SNC-CS3P
GENERAL	
Mass	Approx. 650 g (1 lb. 7 oz.)
Dimensions (W x H x D)	57 x 70 x 159 mm (2 ¼" x 2 ¾" x 6 ¼")
Power requirements	AC 24 V / DC 12 V
Power consumption	7 W max.
Operating temperature Storage temperature	-10 °C to +50 °C (14 °F to 122 °F) -40 °C to +60 °C (-40 °F to 140 °F)
Operating humidity	20% to 80%, Non-condensing
Storage humidity	20% to 95%, Non-condensing
IMAGE DATA	
Compression	M-JPEG
Compression ratio	1/5 ~ 1/60 (10 steps)
Image Resolution	736 x 544 (Auto), 736 x 544 (Frame), 736 x 544 (Field), 640 x 480 (Auto), 640 x 480 (Frame),
	640 x 480 (Field), 320 x 240, 160 x 120
Frame rate	Max. 25 fps (640 x 480)
CAMERA	
Imager	1/3 type ExwaveHAD CCD
Pixels	440,000 (752 x 582)
Electronic shutter Exposure	1/50 to 1/100,000 sec BLC
White balance	ATW
EV Compensation	-
Iris	Auto
Gain	AGC
Focus mode	-
LENS	
Zoom Ratio	-
Horizontal viewing angle	W 73.9° x 56.3° T 33.8° x 25.8°
Focal length	Vari-focal (focal length: 3.5 to 8.0 mm)
F-number	F1.0
Minimum object distance	500 mm
PAN/TILT	
Pan angle	<u>-</u>
Pan speed Tilt angle	<u>-</u>
Tilt speed	
INTERFACES	
Ethernet	10 Base-T/100 Base-TX (RJ-45)
PCMCIA	=
Sensor and I/0	Sensor input: make contact (photo coupler input electrically isolated from the camera) Alarm output 1 and 2: 24 V DC or less,
	1 A (mechanical relay outputs electrically isolated from the camera)
Video Output	VIDEO OUT: BNC, 1.0 Vp-p, 75 Ω unbalanced,
	sync negative
Serial I/F	RS-232C transparent port
ANALOGUE VIDEO OUTPUT	
Signal system	PAL
Signal system Sync system	Internal
Signal system Sync system Horizontal resolution	Internal 480 TV lines
Signal system Sync system Horizontal resolution S/N ratio	Internal 480 TV lines More than 50 dB
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination	Internal 480 TV lines
Signal system Sync system Horizontal resolution SYN ratio Minimum illumination SYSTEM/NETWORK	Internal 480 TV lines More than 50 dB 0.5 lux at F1.0
Signal system Sync system Horizontal resolution Syn ratio Minimum illumination SYSTEM/NETWORK CPU	Internal 480 TV lines More than 50 dB
Signal system Sync system Horizontal resolution SYN ratio Minimum illumination SYSTEM/NETWORK	Internal 480 TV lines 480 TV lines 0.5 lux at F1.0 32-bit RISC processor 8 MB 32 MB (incl. the built-in image memory
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination SYSTEM/NETWORK CPU Embedded flash memory RAM	Internal 480 TV lines More than 50 dB 0.5 lux at F1.0 32-bit RISC processor 8 MB 32 MB (incl. the built-in image memory of about 8 MB)
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination SYSTEM/NETWORK CPU Embedded flash memory	Internal 480 TV lines 480 TV lines 0.5 lux at F1.0 32-bit RISC processor 8 MB 32 MB (incl. the built-in image memory
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination SYSTEM/NETWORK CPU Embedded flash memory RAM Browser	Internal 480 TV lines More than 50 dB 0.5 lux at F1.0 32-bit RISC processor 3 MB 32 MB (incl. the built-in image memory of about 8 MB) MS Internet Explorer v 5.5 and 6.0 (Windows98/985E/ME/NT4.0/2000/XP) Pocket PC Internet Explorer (Pocket PC 2002) IP-filtering, Password protection
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination SYSTEM/NETWORK CPU Embedded flash memory RAM Browser	Internal 480 TV lines More than 50 dB 0.5 lux at F1.0 32-bit RISC processor 8 MB 32 MB (incl. the built-in image memory of about 8 MB) MS Internet Explorer v 5.5 and 6.0 (Windows98/985E/ME/NT4.0/2000/XP) Pocket PC Internet Explorer (Pocket PC 2002) IP-filtering, Password protection TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, DNC,
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination SYSTEM/NETWORK CPU Embedded flash memory RAM Browser	Internal 480 TV lines More than 50 dB 0.5 lux at F1.0 32-bit RISC processor 3 MB 32 MB (incl. the built-in image memory of about 8 MB) MS Internet Explorer v 5.5 and 6.0 (Windows98/985E/ME/NT4.0/2000/XP) Pocket PC Internet Explorer (Pocket PC 2002) IP-filtering, Password protection TCP/IR HTTP, APP, ICMP, DHCP, FTP, DNC, NTP and SNMP (MIB-2) CD-ROM (setup program and User guide),
Signal system Sync system Horizontal resolution S/N ratio Minimum illumination SYSTEM/NETWORK CPU Embedded flash memory RAM Browser Security Protocols supported	Internal 480 TV lines More than 50 dB 0.5 lux at F1.0 32-bit RISC processor 8 MB 32 MB (incl. the built-in image memory of about 8 MB) MS internet Explorer v 5.5 and 6.0 (Windows98/985E/ME/NT4.0/2000/XP) Pocket PC Internet Explorer (Pocket PC 2002) IP-filtering, Password protection TCP/IP, HTTP, ARP, ICMP, DHCP, FTP, DNC, NTP and SMMP (MIB-2)

Network Video Cameras

	SNC-DF70P	SNC-DF40P
CAMERA		
Image device	1/4-type SuperHAD C	CD
Number of effective pixels	752 x 582 (H x V)	
Electronic shutter	1/50 to 1/10000 s	
Gain control	Aug: ON/OFF switchable (up	to 18 dB)
Exposure control White balance mode	Auto, Back-Light-Compensa ATW	ation(BLC)
Lens mount	CS mount	
Lens type	x2.7 Vari-focal auto iris	lens
Horizontal viewing angle	66.6 to 26.9 degree	
Focal length	f=3.0 to 8.0 mm	
Fnumber	F=1.0	
Iris	CCD iris	
Minimum object distance	200 mm	
Other functions	Motion detection Day/Night function	Motion detection
IMAGE	C40 :: 400 400 :: 000 004 :: 000 000	10.050 100. 100 100
Image size (H x V) Compression format	640 x 480, 480 x 360, 384 x 288, 320 x 24 MPEG-4/JPEG selecta	
Maximum frame rate (MPEG-4 mode		
(JPEG mode)	Max. 25 fps (320 x 24	
AUDIO		
Compression format	G.711 (64 Kbps) / G.726 (40, 32	, 24, 16 Kbps)
NETWORK		
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, DHCP,	DNS HTTP FTP SMTP
Number of clients	JPEG: 20 users, MPEG-4:	
INTERFACE		
Ethernet	100Base-TX/10Base-T (R.I-45)
Analogue video output	Composite video (1.0 V	/p-p)
Monitor output	2-Pin connector	F-17
I/O port	Sensor in (1), Alarm ou	
External microphone input	Mini-jack, 2.4 VDC plug-in po	wer, 4.7 kΩ
Audio line output	Mini-jack (Monoaural), max outp	ut level: 1 Vrms
ANALOGUE VIDEO OUTPUT		
Signal system	PAL (Composite)	
Horizontal resolution	480 TV lines	
S/N ratio	50 dB	
Minimum illumination (Colour) (Black and White)	0.9 lx (AGC On, F1.0, 50IRE) 0.2 lx (AGC On, F1.0)	0.8 lx (AGC On, F1.0, 50IRE) -
GENERAL		
Mass Approx.	Approx. 1,500 g (3 lb 5 oz)	750 g (1 lb 10 oz)
Dimensions (W x H x D)	165 x 135 x 166 mm	124 x 132 x 126 mm
	(6 1/2 x 5 3/8 x 6 5/8 inches)	(5 x 5 1/4 x 5 inches)
Device and device and	without projection ports	without projection ports
Power requirements Power consumption	AC24 V 50/60 Hz, DC12 8 W	7.5 W
Operating temperature	-10 to +50 °C (14 to 12	
Storage temperature	-20 to +60 °C (-4 to +1	
Operating humidity	20 to 80%, non-conde	nsina
Storage humidity	20 to 95%, non-condensing	
SUPPLIED ACCESSORIES		
OCH LIED MOCESSONIES	CD-ROM (setup program, users guide), Monitor cables (2), AC power code, Wire rope, Screws (2), Installation manual	CD-ROM (setup program, users guide), Monitor cables (2), AC power code, Wire rope, Screws (2), Dome cover screw, Installation manual
SYSTEM REQUIREMENTS		
Operating system	Microsoft® Windows® 20	
Processor	Intel® Pentium® III, 1 GHz	
Memory	(Recommendation: Pentium IV, 2GHz or higher) 256 MB RAM minimum	
Web browser	Microsoft Internet Explorer® vers	
MOD DIOMOGI	MICLOSOIT INTERNET EXPLOIES AGE	0.0 or 0.0

Network Video Cameras

	SNC-P1
GENERAL	
Image device	1/4-type progressive scan CCD
Number of effective pixels	659 x 494 (H x V)
Electronic shutter	1 to 1/10000 s
Slow shutter	1, 1/2, 1/4, 1/8, 1/15, 1/30 s (On/Off selectable)
Exposure mode	Auto, Shutter priority, Manual
White balance	Auto, Indoor, Outdoor, One-push, Manual
Gain	0, 6, 12, 18 dB
Minimum illumination	3.0 lx
LENS	
Type	Fixed focal lens
Focal length	f=3.8 mm
Viewing angle	Horizontal: 53.4°, Vertical: 40.0°
F-number	F2.0
Minimum object distance	50 cm
SYSTEM/NETWORK	
Compression format	MPEG-4/JPEG selectable
Image size (H x V)	
MPEG-4 mode	640 x 480, 480 x 360, 384 x 288,
==	320 x 240, 256 x 192, 160 x 120
JPEG mode	640 x 480, 480 x 360, 384 x 288.
	320 x 240, 256 x 192, 160 x 120
Maximum frame rate	
MPEG-4 mode	Max. 30 fps, 320 x 240,
	Max. 15 fps, 640 x 480
JPEG mode	Max. 30 fps, 320 x 240,
	Max. 18 fps, 640 x 480
Audio compression	G.711 (64 Kbps)/G.726 (40, 32, 24, 16 Kbps)
Number of clients	
MPEG-4 mode	10 clients
JPEG mode	20 clients
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP and PPPoE,
_	SNMP
INTERFACES	
Ethernet	100Base-TX/10Base-T (RJ-45)
Video output	Mini-jack
Built-in microphone	Electret condenser microphone
External microphone input	Mini-jack, Plug-in power, 2.2 K ohm, Unbalanced
Line output	Mini-jack
Sensor in	
Alarm out	1
GENERAL	
Mass	Approx. 225 g (8 oz)
Dimensions (W x H x D)	99.5 x 35 x 138.5 mm (4 x 1 7/16 x 5 1/2 inches) without projection
Power requirements	DC 12 V
Power consumption	3.5 W
Operating temperature	0 to +35 °C (32 to 95 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Operating humidity	20 to 80%, non-condensing
Storage humidity	20 to 95%, non-condensing
Supplied accessories	AC adaptor (x1)
	CD-ROM (x1, setup program and user guide)
	Stand (x1)

Specifications

Network Video Cameras

Network Video Cameras

	SNC-M1W SNC-M1W	SNC-M3 SNC-M3W
CAMERA		
Image device	1/4-type CMOS	1/4-type CMOS
Number of effective pixels (H x		652 x 482
Pan range		+ 60 to -60 degrees
Tilt range		+ 10 to -60 degrees
Lens type	Fixed focal lens	Fixed focal lens
Focal length	f=3.7 mm	f=3.7 mm
Viewing angle	Horizontal: 51.0°, Vertical: 38.9°	Horizontal: 51.0° Vertical: 38.9°
Minimum object distance	80 cm	80 cm
VIDEO		22.7
Compression format	MPEG-4, JPEG	MPEG-4, JPEG
Image size (H x V)	IIII Ed 4; of Ed	mi Ed 4 ₁ of Ed
MPEG-4 mode	640 x 480, 320 x 240, 160 x 120	640 x 480, 320 x 240, 160 x 120
JPEG mode	640 x 480, 320 x 240, 160 x 120	640 x 480, 320 x 240, 160 x 120
Maximum frame rate	040 X 400, 320 X 240, 100 X 120	040 X 400, 020 X 240, 100 X 120
MPEG-4 mode	Max. 30 fps (320 x 240)	Max. 30 fps (320 x 240)
JPEG mode	Max. 30 fps (320 x 240)	Max. 30 fps (320 x 240)
	1910A. 30 1p3 (320 x 240)	max. 30 tps (320 x 240)
AUDIO .	0.700 (40.00.04.40)(4)	0.700 (40.00.04.40 (40.40)
Audio compression	G.726 (40, 32, 24, 16 Kbps)	G.726 (40, 32, 24, 16 Kbps)
Built-in microphone	Electret condenser microphone	Electret condenser microphone
NETWORK		
Protocols	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP	TCP/IP, ARP, ICMP, DHCP, DNS, HTTP, FTP, SMTP, NTP
WIRELESS LAN		
Standard	- IEEE802.11b (2.4 GHz)	- IEEE802.11b (2.4 GHz)
Transmission speed	11Mbps/5.5Mbps/2Mbps/ 1Mbps (Auto Switch)	- 11Mbps/5.5Mbps/2Mbps/ 1Mbps (Auto Switch)
Security	- WEP (64/128 bits)	— WEP (64/128 bits)
	- WEF (04/120 DR3)	= WET (04/120 bits)
INTERFACES Ethernet	100Daga TV/10Daga T (D L 45)	100Daga TV/10Daga T /D L 45\
	100Base-TX/10Base-T (RJ-45)	100Base-TX/10Base-T (RJ-45)
External microphone input Audio line output	Mini-jack, 2.4 VDC plug-in power, 2.2 k ohm Mini-jack	Mini-jack, 2.4 VDC plug-in power, 2.2 k ohm Mini-jack
	IVIIII-Jack	WIIII-jack
GENERAL	.	
Mass	Approx. 230 g (8 oz) Approx. 240 g (8 oz)	Approx. 380 g (13 oz) Approx. 390 g (14 oz)
Dimensions (Dia. x H)	110 x 68.5 mm (4 3/8 x 2 3/4 inches)	110 x 104 mm (4 3/8 x 4 1/8 inches)
	(excludes projection port)	(excludes projection port)
Power requirements	DC 5 V	DC 5 V
Power consumption	2.7 W 3.5 W	6.7 W 7.5 W
Operating temperature	0 to +40 °C (32 to 104 °F)	0 to +40 °C (32 to 104 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)	-20 to +60 °C (-4 to +140 °F) 20 to 80%, non-condensing
Operating humidity	20 to 80%, non-condensing	20 to 95%, non-condensing
Storage humidity	20 to 95%, non-condensing	20 to 95%, non-condensing
SUPPLIED ACCESSORIES		
	AC adaptor	AC adaptor
	Stand	Stand
	Wire	Wire
	Rubber foot	Wall-mount bracket
	CD-ROM (users guide, supplied program)	Rubber foot
	Installation manual	CD-ROM (users guide, supplied program) Installation manual
SYSTEM REQUIREMENTS		
Operating system	Microsoft® Windows® 2000/XP	Microsoft® Windows® 2000/XP
Processor	Intel® Pentium® III, 1 GHz or higher	Intel® Pentium® III, 1 GHz or higher
	(Recommendation: Pentium IV, 2GHz or higher)	(Recommendation: Pentium IV, 2GHz or higher)
Memory	256 MB RAM minimum	256 MB RAM minimum
Web browser	Microsoft Internet Explorer® version 5.5 or 6.0	Microsoft Internet Explorer® version 5.5 or 6.0

Specifications Specifications

Network Video Recorders and Servers

	SNT-V501	SNT-V504
ANALOGUE VIDEO INTERFACE		
Video input	(1) Analogue composite (BNC x 1),1.0 Vp-p, 75 Ω , unbalanced, sync negative Auto sensing	(4) Analogue composite (BNC x 1),1.0 Vp-p 75 Ω , unbalanced, sync negative Auto sensing
Video ouput	Through video output: Analogue composite (BNC \times 1),1.0 Vp-p, 75 Ω , unbalanced, sync negative	Analogue composite (BNC x 1),1.0 Vp-p, 75 Ω , unbalanced, sync negative (QUAD/Single selectable)
System/Network	CPU 32-bit RISC processor RAM 32 N	1B (including 8 MB alarm buffer)
Flash memory	8 MB	
Image size	704 x 480, 640 x 480, 320 x	240, 160 x 120 pixels
Compression method	JPEG	
Compression ratio	Approx. 1/5 to 1/60 (10 steps) *Th on an image of 24 bits/picture elei	
Frame rate	Max. 30 fps (640 x 480)	Max. 30 fps (640 x 480), 30 fps (320 x 240) per video input
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (server/client),	
Number of clients	Max. 5	
INTERFACES		
Ethernet	100BASE-TX / 10B	ASE-T (RJ-45)
Sensor input	(1) 3.3 to 24 V DC device supported, photo coupler inputs electrically isolated from this unit	(4) 3.3 to 24 V DC device supported, photo coupler inputs electrically isolated from this unit
Alarm output	(2) 24 V DC or less, 1 A, mechanical relay outp	outs electrically isolated from the camera
Serial interface	RS-485/RS-232C (for camera con	trol or transparency function)
PC card slot	PCMCIA Typ	e II (1)
GENERAL		
Mass	Approx. 650 g (1 lb 7 oz)	Approx. 710 g (1 lb 9 oz)
Dimensions (W/H/D)	128 x 40 x 150 mm (5 1/8 x 1 5/8 x 6	
Power requirement	DC 12 V or A	
Power consumption	10.0 W max.	14.0 W max.
Operating temperature	-10 to 50 °C (14 °F to 122 °F) When PC card	
Storage temperature	-20 to 60 °C (-4 to 140 °F)	
Operating humidity	20 to 80 %, Non-condensing	
Storage humidity	20 to 95 %, Non-condensing	
Supplied accessories	CD-ROM (setup program and User's Guide) (1), I/O receptacle (1), Installation manual (1)	

Network Video Recorders and Servers

	FSV-RSM9/FSV-RSM16
OVOTEM	
SYSTEM Chipset	ServerWorks GC-SL+CSB6
CPU	Intel Pentium 4, 2.4GHz/533MHz front-side bus
Memory	512 MB PC-2100 DDR266 CL2 with ECC registered
OS .	Windows XP Professional
Pre-installed software*1	RealShot Manger version 2.0, RealShot Manager License File 1 Installed or bundled at configuration center
INTERFACES	
Serial	RS-232C, 9-pin x1
Keyboard, Mouse	PS/2 x 2
JSB 1.1 Graphic	Front x 2, Rear x 1
LAN	VGA(15-pin) x 1 RJ-45 x 2(10/100 x 1, 10/100/1000 x 1)
ONBOARD CONTROLLER	10 10 X 2(10/100 X 1) 10/100/1000 X 1)
DE	ATA100
RAID	2-channel IDE RAID 0, 1 SPAN
Graphic	ATI Range XL, SMB VRAM
HDD	
Capacity	500 GB (250 GB x 2)
DISC BAYS	
HDD	3.5 inch x 2
FDD Drive	3.5 inch x 1
GENERAL	
Operating temperature	10°C to 35°C (50°F to 95°F)
Operating humidity	20% to 80%
Dimensions(WxHxD) Mass	430 x 43 x 400 mm(17 x 1 3/4 x 15 3/4 inches)
Rated voltage	approx. 8.0 kg(17lb 10oz)
Rated current	100-127, 220-240 V 100 to 127V: 5.5 A, 200 to 240 V: 2.75 A
Power consumption	200 W
Frequency	50/60 Hz
Supplied accessories	Rack mounting kit(1), Ethernet cable(1), FSV-IPM1 System Utility CD-ROM, Windows XP
	Professional Installation CD, RealShot Manager 2.0 CD, RealShot Manager License FD,
	FSV-IPM1 Installation Guide, Rubber foot(4)
SAFETY STANDARD/EMC INFORMATION	
Safety standard EMC	CSA C22.2 No.60950 3rd /UL 60950 3rd IEC 60950 3rd EN 60950 3rd Low voltage direct FCC47 CFR Part 15 Class A IC ICES-003 Class A
EWIC	
	FMC Directive 89/336/FFC FN55022 Class Δ FN55024 VCCI Class Δ IFITΔ
	EMC Directive 89/336/EEC EN55022 Class A, EN55024 VCCI Class A JEITA
	FSVM51000W
	FSVM51000W Application Server
	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB
System Specifications	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives)
System Specifications CPU	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor
System Specifications CPU Memory	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional)
System Specifications CPU Memory Memory Slots	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID: RAID 0.1.5 (0/S: 0+1)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1),
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB)	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 Soxofets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S: 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level Jser Area Capacity (GB) Operating System System Management Vektovrk Transport Protocol	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S: 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP
System Specifications CPU Wemory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Veltwork Transport Protocol Veltwork Transport Protocol	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Tiransport Protocol Veltwork File Protocols Veltwork File Protocols	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Tiransport Protocol Veltwork File Protocols Veltwork File Protocols	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S: 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A N/A N/A N/A DUtch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish,
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level Joser Area Capacity (GB) Operating System System Management Network Transport Protocol Vetwork Flie Protocols Vetwork Client Types Supported Languages	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentilum 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A N/A N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Transport Protocol Network Tile Protocols Vetwork Client Types Supported Languages	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 BaseT/100 BaseTV/1000 BaseT
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level Joser Area Capacity (GB) Operating System System Management Veltwork Transport Protocol Network File Protocols Network Client Types Supported Languages Veltwork Connection	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra AIA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable AIA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 Base/7100 Base/TX/1000 Base/T with fail-over and load balancing (RJ-45 connectors) N/A
System Specifications CPU Memory Memory Slots I ard Disk Capacity I HDD Interface I HDD Interface I HDD I How I HDD I HOW I HDD I HOW I HDD I HOW I HDD I HD	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A N/A N/A N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 Base (1700 BaseTX/1000 BaseT with fail-over and load balancing (RJ-45 connectors) N/A Interface front : USB 2.0 x 2 Interface rear : RS-232C x 1 (D-sub 9pin)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Transport Protocol Veltwork File Protocols Network File Protocols Network Connection Network Connection	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 Sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) ATA (IDE) ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A N/A N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 BaseT/100 BaseT/V1000 BaseT with fail-over and load balancing (RJ-45 connectors) N/A Interface front : USB 2.0 x 2 Interface rear : RS-232C x 1 (D-sub 9pin) PS/2 x 2 (Keyboard, Mouse) VGA Monitor SCSI (68 pin, VHDC)
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level Joser Area Capacity (GB) Operating System System Management Vetwork Transport Protocol Vetwork File Protocols Vetwork File Protocols Vetwork File Argues Supported Languages Vetwork Connection Vetwork Connection Vetwork Security Interface outside	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 Base/T100 Base/TV1000 Base/T with fail-over and load balancing (RJ-45 connectors) N/A Interface front : USB 2.0 x 2 Interface rear : RS-232C x 1 (D-sub 9pin) PS/2 x 2 (Keyboard, Mouse) VGA Monitor SCSI (68 pin, VHDCI) Ethernet Network (RJ-45 x 2 AC ~ Power in
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level Joser Area Capacity (GB) Operating System System Management Veltwork Transport Protocol Veltwork Transport Protocol Veltwork Client Types Supported Languages Vetwork Connection Vetwork Security Interface outside	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A N/A N/A N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 BaseT/100 BaseT/Vional BaseT/Vional BaseT/Vional Raid Raid Raid Raid Raid Raid Raid Raid
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Vetwork Transport Protocol Network File Protocols Network File Protocols Network File Protocols Network Connection Network Connection Network Connection Network Security Interface outside	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDS TCP/IP N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 BaseT/100 BaseTX/1000 BaseT with fail-over and load balancing (RJ-45 connectors) N/A Interface front : USB 2.0 x 2 Interface rear : RS-232C x 1 (D-sub 9pin) PS/2 x 2 (Keyboard, Mouse) VGA Monitor SCSI (68 pin, VHDC) Ethernet Network (RJ-45) x 2 AC – Power in PCI expansion slot x 2 (short card size x 2), mini PCI for SCSI x 1 for tape device N/A
System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Transport Protocol Network Transport Protocol Network Client Types Supported Languages Network Connection Network Security Interface outside Interface inside Windows Network Integration Form Factor	FSVM51000W Application Server 1000 GB 4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentilux 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID: RAID 0.1,5 (O/S: 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0.0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDS TCP/IP N/A N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 BaseT/100 BaseT/V100 BaseT with fall-over and load balancing (RJ-45 connectors) N/A Interface front: USB 2.0 x 2 Interface rear: RS-232C x 1 (D-sub 9pin) PS/2 x 2 (Keyboard, Mouse) VGA Monitor SCSI (68 pin, VHDCI) Ethernet Network (RJ-45) x 2 AC — Power in PCI expansion slot x 2 (short card size x 2), mini PCI for SCSI x 1 for tape device N/A
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level Joser Area Capacity (GB) Operating System System Management Vetwork Transport Protocol Vetwork File Protocols Vetwork File Protocols Vetwork File Protocols Vetwork File Protocols Vetwork Connection Network Connection Vetwork Connection Vetwork Security Interface outside Interface inside Mindows Network Integration Form Factor Operating Environment Doz-ROM	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S: 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 6), Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 BaseT/100 BaseT/V1000 BaseT with fail-over and load balancing (RJ-45 connectors) N/A Interface front : USB 2.0 x 2 Interface rear : RS-232C x 1 (D-sub 9pin) PS/2 x 2 (Keyboard, Mouse) VGA Monitor SCSI (68 pin, VHDCI) Ethernet Network (RJ-45) x 2 AC - Power in PCI expansion slot x 2 (short card size x 2), mini PCI for SCSI x 1 for tape device N/A 19" rack-mountable (1U height) Temperature: 10 to 35 °C
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Transport Protocol Network Transport Protocol Network Transport Protocol Network Client Types Supported Languages Network Connection Network Security Interface outside Interface inside Windows Network Integration Form Factor Operating Environment CD-ROM	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 Sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) ATA (IDE) ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 0) Windows 2000 Server preinstalled (incl. 5 CAL) Recovery CDs TCP/IP N/A N/A N/A N/A Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish, Chinese (simplified), Chinese (traditional) Dual auto-sensing 10 Base/1700 Base/17000 Base/17000 Base/17000 Windows COS (RAID 1), With fail-over and load balancing (RJ-45 connectors) N/A Interface front : USB 2.0 x 2 Interface rear : RS-232C x 1 (D-sub 9pin) PS/2 x 2 (Keyboard, Mouse) VGA Monitor SCSI (68 pin, VHDC) Ethernet Network (RJ-45) x 2 AC - Power in PCI expansion slot x 2 (short card size x 2), mini PCI for SCSI x 1 for tape device N/A 19" rack-mountable (1U height) Temperature: 10 to 35 °C Slim 24x CDROM
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Transport Protocol Network File Protocols Network File Protocols Network File Protocols Network Connection Network Connection Network Connection Network Security Interface outside Windows Network Integration Form Factor Operating Environment CD-ROM Front Display Front Display Front Display Fractor Operating Environment CD-ROM Front Display Fractor Operating Environment Frac	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 6), 320 GB (RAID 1), 640 GB (RAID 5), 320 CC (RAID 1), 640 GB (RAID 5), 320 CC (RAID 1), 640 GB (RAID 5), 320 CC (RAID 1), 640 GB (RAID 6), 320 CC (RAID 1), 640 GB (RAID 5), 320 CC (RAID 1), 320 CC (RAID 1
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network Transport Protocol Network Transport Protocol Network Transport Protocol Network Client Types Supported Languages Network Connection Network Security Interface outside Interface inside Windows Network Integration Form Factor Operating Environment CD-ROM Front Display Rated Voltage Rated Current	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentilum 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (O/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 1), 320 GB (RAID 1), 320 GB (RAID 1), 640 GB (RAID 1), 320 GB (RA
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System Network Transport Protocol Veltwork File Protocols Veltwork File Protocols Veltwork File Protocols Network Connection Network Connection Network Connection Network Security Interface outside Windows Network Integration Form Factor Operating Environment CD-ROM Front Display Rated Voltage Rated Current Dimensions (W x H x D)	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 641 GB (RAID 5), 320 GB (RAID 1), 642 GB (RAID 5), 320 GB (RAID 1), 643 GB (RAID 5), 320 GB (RAID 1), 644 GB (RAID 5), 320 GB (RAID 1), 645 GB (RAID 5), 320 GB (RAID 1), 646 GB (RAID 5), 320 GB (RAID 1), 647 GB (RAID 5), 320 GB (RAID 1), 648 GB (RAID 5), 320 GB (RAID 1), 649 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 6), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID
Main Function System Specifications CPU Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System System Management Network File Protocol Network File Protocols Network File Protocols Network File Protocols Network File Protocols Network Connection Network Connection Network Connection Network Connection Network Geurity Interface outside Windows Network Integration Form Factor Operating Environment CD-ROM Front Display Rated Voltage Rated Current Dimensions (W x H x D) Weight Operating Environ Weight Operating Environment CD-ROM Front Display Rated Current Dimensions (W x H x D) Weight Operating Relative Humidity	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Ultra ATA-100 drives) Ultra ATA-100 drives Ultra
System Specifications CPU Memory Memory Memory Slots Hard Disk Capacity HDD Interface HDD Raid Level User Area Capacity (GB) Operating System Network Transport Protocol Veltwork File Protocols Veltwork File Protocols Veltwork File Protocols Network Connection Network Connection Network Connection Network Security Interface outside Windows Network Integration Form Factor Operating Environment CD-ROM Front Display Rated Voltage Rated Current Dimensions (W x H x D)	FSVM51000W Application Server 1000 GB (4x hot-swappable 250 GB Ultra ATA-100 drives) Intel Pentium 4, 2.4 GHz processor 512 MB RAM STD (up to 4GB RAM optional) DIMM x 4 sockets 1000 GB (250 GB x 4) Hot-swappable ATA (IDE) Hardware RAID : RAID 0,1,5 (0/S : 0+1) 480 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 1), 641 GB (RAID 5), 320 GB (RAID 1), 642 GB (RAID 5), 320 GB (RAID 1), 643 GB (RAID 5), 320 GB (RAID 1), 644 GB (RAID 5), 320 GB (RAID 1), 645 GB (RAID 5), 320 GB (RAID 1), 646 GB (RAID 5), 320 GB (RAID 1), 647 GB (RAID 5), 320 GB (RAID 1), 648 GB (RAID 5), 320 GB (RAID 1), 649 GB (RAID 5), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID 6), 320 GB (RAID 1), 640 GB (RAID 5), 320 GB (RAID

Video Cameras

	SSC-DC50AP	SSC-DC54AP	SSC-DC58AP
Pickup device		1/2 type Interline	
		Transfer CCD	
Picture Elements (H x V)		752 x 582	
Lens mount		C and CS adj.	
Signal system/scanning system		PAL 625/2:1	
Colour mode	AWB/ATW/	AWB/ATW/	ATW PRO/
	ATW PRO/	ATW PRO/	ATW/AWB/
	PRESET 5,600 °K	PRESET 5,600 °K	PRESET 5,600 °K
Sync system		Internal/External	
External sync	VS and VBS/	AC Line Lock,	AC Line Lock,
	MPX VS	VS and VBS	VS and VBS
V-Phase control	No	±90°	±90°
H-Phase control		Yes	
Horizontal resolution		470 TV lines	
S/N Ratio (AGC OFF, Weight ON)		Better than 50 dB	
Min. illumination		0.4 lux at F1.2 (30 IRE)	
(Turbo AGC ON)		0.8 lux at F1.2 (50 IRE)	
Video output		Composite,	
		BNC (1)	
		Y/C, Mini-Din (1)	
Operating temperature		-10 to 50 °C	
		(14 to 122 °F)	
Storage temperature		-40 to 60 °C	
		(-40 to 140 °F)	
Power requirements	1) Multiplexing with YS-W170P/W270P	AC 24 V, 50 Hz	AC 220 to 240 V, 50 Hz
	2) DC 12 V power		
	supply		
Power consumption	1) 5.5 W supplied	6.0 W	5.5 W
	from YS-W170P/W270P		
	2) 4.5 W at DC 12 V		
Mass	600 g (1 lb. 5 oz.)	600 g (1 lb. 5 oz.)	900 g (2 lb.)
Dimensions (W x H x D)	64 x 57 x 137 mm	64 x 57 x 137 mm	64 x 57 x 162 mm
	(2 ½" x 2 ¼" x 5 ¾")	(2 ½" x 2 ¼" x 5 ¾")	(2 ½" x 2 ¼" x 6 18")
Supplied accessories		Lens connector (x1)	
		Lens mount cap (x1)	
		Operation manual (x1)	

Camera Adaptors

	YS-W270P	YS-W170P	
Video output	BNC (8), composite video	BNC (2), composite video	
Video input	Camera In, BNC (4)	Camera In, BNC (1)	
External sync	VS or	VS or VD-W	
Internal sync	VS or VD-W		
Max. cable length	300 m using RG-59B/U		
	500 m using RG-6A/U 600 m using RG-11A/U		
Cable compensation	3-Position		
Power requirement	AC 220 to 240 V, 50 Hz		
Power consumption	49.5 W	15 W	
Operating temp.	-10 to 50 °C (14 to 104 °F)		
Mass	3.6 kg (7 lb. 15 oz.)	1.9 kg (4 lb. 3 oz.)	
Dimensions (W x H x D)	424 x 52 x 345 mm	212 x 52 x 345 mm	
	(16 34" x 2 18" x 13 58")	(8 38" x 2 18" x 13 58")	

Video Cameras

	SSC-DC593P	SSC-DC598P	
Image device		1/3 type Interline	
		Transfer CCD	
	wit	h DynaView technology	
Picture elements		752 x 582	
(H x V)		1/0.1	
Sensing area		1/3 type format	
Signal system		(4.8 x 3.6 mm) PAL	
Sync. System		Internal/External	
Horizontal		480 TV lines	
resolution		400 IV III03	
Lens mount		CS	
Minimum		Colour: 0.8 lux at F1.4	
illumination		(50 IRE)	
		B/W: 0.07 lux at F1.4	
		(50 IRE)	
AGC	0	FF/MANUAL/NORMAL/	
		TURBO selectable	
Shutter		/60 (1/50) to 1/10000	
		Bsteps) OFF/MANUAL/	
		CCD IRIS selectable	
White Balance		ATW PRO/ATW/	
(WB)		3200K/5600K/	
Backlight		MANUAL/DUAL WB DYNAVIEW/SPOT/	
Compensation		WEIGHT/OFF	
(BLC)		switchable	
Day/Night mode		COLOUR/AUTO/	
Day/mgnt mode		EXTERNAL/B&W	
Activity detection		ON / OFF switchable	
Zone masking	ON / OFF switchable		
	(with Area setting function)		
Variable Gamma	OFF / SCENE1 / SCENE2 /		
		SCENE3 / SCENE4	
		selectable	
Camera Title	Up to 24 characters		
S/N ratio	ON / OFF switchable		
S/N ratio	More than 50 dB		
Video out	(AGC OFF, Weight ON)		
Remote Control	1.0 Vp-p, BNC (1) RS-485		
Operating	-10 to 50 °C		
temperature	(-40 to 122 °F)		
Storage	-40 to 122 °F)		
temperature	(-40 to 140 °F)		
Power	AC 24 V ±10%, 50 Hz	AC 220 V to 240 V	
requirements	or DC 12 V ±10%	±10%, 50 Hz	
Power	5.8 W	5.6 W	
consumption			
Mass		500 g (1 lb. 2 oz.)	
Auto iris lens	DC	DC/video servo switchable	
Dimensions		70 x 57 x 129 mm	
(W x H x D)		(2 76" x 2 14" x 5 18")	
Supplied accessories	Lens mount cap (x1)	Lens mount cap (x1)	
accessories	Menu operations (x1) Operation manual (x1)	Menu operations (x1) Operation manual (x1)	
	Operation manual (XT)	AC power cable (x1)	
		no power capic (x1)	

Specifications Specifications

Video Cameras

	SSC-DC573P	SSC-DC578P
Image device	1/3 type CCD	
Picture elements (H x V)	752 x 582	2
Sensing area	1/3 type format (4.8	x 3.6 mm)
Signal system	PAL standa	rd
Sync system	INT/Line Lo	ck
Horizontal resolution	480 TV line	es
Lens mount	CS	
Minimum illumination	0.8 lx at F1.4 (50 IR	E, AGC ON)
AGC	NORMAL/TURBO/MANUAI	
CCD IRIS	ON/OFF switchable, 1/50	
Electric shutter	1/50 to 1/10,000 s	
White Balance (WB)	ATW-PRO/ATW/3200K/5600K/MAN	IUAL/DUAL WB selectable
Back-Light Compensation (BLC)	DYNAVIEW/SPOT/WEIGHT	7/OFF selectable
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)	
Dynamic range	52 dB	
Variable Gamma Curve	Scene 1/Scene 2/Scenc 3/Scene 4/Off selectable	
Aperture	Soft/Normal/Sharp selectable	
Camera title	Up to 24 characters	
User preset	Two presets	
Video out	BNC, 1.0 Vp-p, 75 Ω, sync negative	
Operating temperature	-10 °C to 50 °C (14 °F to 122 °F)	
Storage temperature	-40 °C to 60 °C (-40 °F to 140 °F)	
Power requirements	AC 24 V ±10 %, 50 Hz or DC 12 V ±10 %	AC 220 to 240 V ±10 %, 50 Hz
Power consumption	4 W	
Auto iris lens	DC/Video Servo switchable	
Mass	480 g (1 lb 1 oz)	
Dimensions (W x H x D)	70 x 57 x 129 mm (2 7/8 x 2 1/4 x 5 1/8 inches)	
Supplied accessories	Lens mount cap (1), Operati	
	Menu operations (1), AC power cal	ble (1, SSC-DC578P only)

Video Cameras

	SSC-E453P	SSC-E458P	SSC-E473P	SSC-E478P
Image device		1/3 type Interline Transfer (CD with SuperExwave	
Picture elements (H x	V)	752 x 582		
Sensing area	,	1/3 type form	at (4.8 x 3.6 mm)	
Signal system		PAL st	andard	
Sync system		INT/Line Lock		
Horizontal resolution		540 TV lines		
Lens mount		(S	
Minimum illumination		0.55 lux at F1.2 Colour: 0.55 lx at F1.2 (50 IRE, AGC ON, Turbo mode) (50 IRE, AGC ON, Turbo mode) //B&W: 0.05 lx at F1.2 (50 IRE, AGC ON, Turbo mode)		
Day/Night function		-	Auto/Manua	l selectable
AGC		TURBO/0FF	switchable	
CCD IRIS		ON/OFF switc	hable, 1/50 to 1/100,000 s	
White Balance (WB)		Auto White Balance Pro(AT\	V Pro) /Auto Wite Balance(AT	W)
Backlight Compensati (BLC)	on	ON/OFF switchable		
S/N ratio		More than 50	dB (AGC OFF, WEIGHT ON)	
Video out		BNC, 1.0 Vp- _I	o, 75 Ω, sync negative	
Auto iris lens		DC servo		
Operating temperature	е	-10 °C to 50 °C (14 °F to 122 °F)		
Storage temperature		-40 °C to 60 °C (-40 °F to 140 °F)		
Power requirements	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 V to 240 V ±10%, 50 Hz	AC 24 V ±10%, 50 Hz or DC 12 V ±10%	AC 220 V to 240 V ±10%, 50 Hz
Power consumption	3.5	3.5 W 4.0 W		
Mass	360g (12 oz)	390 g (13 oz)	380 g (13 oz)	400g (14 oz)
Mass including front & rear covers	440g (15oz)	470 g (1 lb)	460 g (1 lb 1 oz)	480g (1 lb 8 oz)
Dimensions (W x H x		60 x 53 x 118 mm 60 x 53 x 124 mm (2 3/8 x 2 1/8 x 4 3/4 inches) (2 3/8 x 2 1/8 x 5 inches)		
Dimensions including front and rear covers		240 mm x 9 1/2 inches)	60 x 53 x (2 3/8 x 2 1/8	246 mm x 9 3/4 inches)
Supplied accessories	Rear cover(1),	, Screws(2), Lens mount cap	ing instructions (1), Front cov o (1), Operating instructions (Power cable (1) (SSC-E458P	1), Front cover (1),

Video Cameras

	SSC-DC372P	SSC-DC378P	SSC-DC198P	
Image device	1/3 type SuperHAD CCD 1/3 type CCD		1/3 type CCD	
Picture elements (H x V)		752 x 582		
500 x 582				
Sensing area 1/3 type format (4.8 x 3.6 mm)		6 mm)		
Signal system	PAL			
Sync system	Internal		Line Lock	
Horizontal resolution		480 TV lines		
330 TV lines				
Lens mount		CS mount		
Minimum illumination		lx at F1.2 (50 IRE, Turb		
		1.2 (30 IRE, AGC ON, AC		
		t F1.2 (50 IRE, AGC ON,		
		F1.2 (100 IRE, AGC ON		
AGC		node, up to 24 dB)	ON/OFF switchable	
	or OFF s	witchable		
CCD IRIS	1/50 to 1/100,000 s			
White Balance (WB)		Auto-Tracing White Balance		
Back-Light Compensation (BLC)		ON or OFF switchabl		
S/N ratio		3 or more (AGC OFF, W		
Video out	BNC,	1.0 Vp-p, 75 1/2, sync	negative	
Auto iris lens		DC servo		
DC/video servo switchable				
Operating temperature		-10°C to 50°C (14°F to 122°F)		
Storage temperature		-40°C to 60°C (-40°F to 140°F)		
Power requirements	DC 12 V ±10% AC 220 to 240 V ±10%, 50			
Power consumption	3.2 W	4.0 W	3.7 W	
Mass	355 g (13 oz)	385 g (14 oz)	390 g (14 oz.)	
Dimensions (W x H x D)		120 mm (2 3/8 x 2 1/4 2		
Supplied accessories		Lens mount cap (x 1		
	Operating instructions (x 1		x 1), Operation manual (x1)	
		Power cable (x 1)		

	SSC-DC172P
Image device	1/3 type Interline Transfer CCD
Picture elements (H x V)	500 x 582
Sensing area	1/3 type format (4.8 x 3.6 mm)
Signal system	PAL standard
Sync. System	Internal
Horizontal resolution	330 TV lines
Lens mount	CS
Minimum illumination	0.6 lx at F1.2 (50 IRE, AGC ON, Turbo mode)
AGC	TURBO/OFF switchable
CCD IRIS	ON/OFF switchable (1/50 to 1/100,000 s)
White Balance (WB)	Auto White Balance (ATW)
Back-Light	ON/OFF switchable
Compensation (BLC)	
S/N ratio	More than 50 dB (AGC OFF, WEIGHT ON)
Video out	BNC, 1.0 Vp-p, 75 Ω sync negative
Auto iris lens	DC servo
Operating temperature	-10°C to 50°C (14°F to 122°F)
Storage temperature	-40°C to 60°C (-40°F to 140°F)
Power requirements	DC 12 V ±10%
Power consumption	3.0 W
Mass	355 g (12 oz)
Dimensions (W x H x D)	60 x 54 x 120 mm (2 ³ /8 x 2 ¹ /4 x 4 ³ /4 inches)
Supplied Accessories	Lens mount cap (x 1), Operating instructions (x 1)

Video Cameras

	SSC-M383CE	SSC-M388CE	
Image device	1/3 type Interline Transfer CCD		
Picture elements (H x V)	752 x 582		
Sensing area	1/3 type format (4.8 x 3.6 mm)	
Signal system	CCIR sta	ndard	
Sync. System	INT/LL LL		
Horizontal resolution	570 TV		
Lens mount	CS		
Minimum illumination	0.04 lux at F1.2 (30 IRE		
	0.07 lux at F1.2 (50 IRE		
	0.3 lux at F1.2 (100 IRE		
AGC	ON/OFF (sw		
Shutter	ON/OFF (switchable), 1/50 to 1/100,000 s		
Backlight	ON/OFF switchable		
Compensation (BLC)			
S/N ratio	More than 50 dB		
(AGC OFF, Weight ON)			
Video out	1.0 Vp-p; 75 Ω sync. negative		
Operating temperature	-10 to 50 °C (14 to 122 °F)		
Storage temperature	-40 to 60 °C (-40 to 140 °F)		
Power requirements	AC 24 V ±10%, 50 Hz or DC 12 V ±10%		
Power consumption	2.6 W		
Mass	360 g (13 oz.) 390 g (14 oz.)		
Auto iris lens	DC/video servo		
Dimensions (W x H x D)	60 x 54 x 120 mm (2 3		
Supplied accessories	Lens mount cap (x1) 0	peration manual (x1)	

	SSC-M183CE	SSC-M188CE
Image device	1/3 type Interline Transfer CCD	
Picture elements (H x V)	500 x 582	
Sensing area	1/3 type form	nat (4.8 x 3.6 mm)
Signal system	CCIR	standard
Sync. System	INT/LL LL	
Horizontal resolution	380	TV lines
Lens mount	CS	
Minimum illumination		IRE, AGC ON, Turbo mode)
		IRE, AGC ON, Turbo mode)
		0 IRE, AGC ON, Turbo mode)
AGC	ON/OFF (switchable)	
Shutter		e), 1/50 to 1/100,000 s
Backlight	ON/OFF	switchable
Compensation (BLC)		
S/N ratio	More :	than 50 dB
(AGC OFF, Weight ON)		
Video out		Ω sync. negative
Operating temperature		C (14 to 122 °F)
Storage temperature		C (-40 to 140 °F)
Power requirements	AC 24 V ±10%,	AC 220 V
	50 Hz or	to 240 V ±10%,
	DC 12 V ±10%	50 Hz
Power consumption	2.5 W	
Mass	360 g (13 oz.)	390 g (14 oz.)
Auto iris lens		ervo switchable
Dimensions (W x H x D)		(2 38" x 2 1/4" x 4 3/4")
Supplied accessories	Lens mount cap (x1	1) Operation manual (x1)

Video Cameras

	SSC-CD73VP	SSC-CD43VP	
Picture device	1/4 type Interline Transfer SuperHAD CCD		
Picture Elements (H x V)	752 x 582		
Built-in lens	f = 3.0 to 8.0 m		
Lens mount	CS N		
View angle (D, H, V)		° (tele) (V): 49.3° (wide), 20.1° (tele	
Focus length	Minimum object		
Signal system/	PAL colo	r system	
scanning system			
White Balance	AT	W	
Sync. system	Internal (DC 1	2 V/AC 24 V)/	
	Line lock (AC 24 \	/ only) switchable	
External sync.	AC line lock		
V-phase control	±9	±90 °	
Horizontal resolution	480 T\	/ lines	
S/N ratio	More that	ın 50 dB	
(AGC OFF, weight ON)			
Min. illumination	Colour: 0.9 lux	0.9 lux (AGC ON)	
(Turbo AGC ON)	(F1.0, 50 IRE, AGC ON)		
	B&W: 0.2 lux		
	(F1.0, 50 IRE, AGC ON)		
AGC	ON (Turbo mode)	/OFF switchable	
Iris control mode	Auto Iri	s Lens	
Video output	1.0 Vp-p, 75 Ω	negative sync.	
Weather proof	IP66	_	
Operating temperature	-20° C to +50 °C	(-4° F to +122° F)	
Operating humidity	20 % to 80 % (r	non condensing)	
Input voltage	AC 24 V/	DC 12 V	
Power consumption	3.5 W	3.3 W	
Mass	Approx 870 g (1lb. 14 oz.)	Approx 440 g (16 oz.)	
Dimensions (W x H x D)	Base: 147 x 111 x 148 mm	Base: 121 x 123 x 106 mm	
• •	Bubble: 94 mm (ø)	Bubble: 91 mm (ø)	
Optional accessories	YT-ICB73V	YT-ICB43V	
•	In-ceiling bracket	In-ceiling bracket	

	EVI-D100P	EVI-D70P/D70PW		
Nr. 1				
Video Signal	PAL 1/4 type SuperHAD CCD			
Image Sensor Effective Pixels				
Effective Pixels Horizontal Resolution	752 (H) x 582 (V)			
	460 TV lines (Wide end)			
Lens	x10 Optical Zoom, x40 with Digital Zoom, f = 3.1 to 31, F 1.8 to 2.9	18x zoom, f=4.1 mm (Wide) to 73.8 (Tele) F1.4 to F3.0		
Horizontal Angle of View	6.6° to 65°	2.7° (Tele end) to 48° (Wide end)		
Minimum Object Distance	100 mm (Wide end), 600 mm (Tele end)	10 mm (Wide end), 800 mm (Tele end)		
Minimum Illumination	3.5 lux (F1.8)	1 lux (F1.4)		
Auto Exposure	Auto/Manual/Priority AE	, Exposure compensation,		
	Backlight Co	ompensation		
Shutter Speed	1/3 to 1/10,000 s	1 to 1/10,000 s		
Gain	_	Auto/Manual (-3 to +28 dB, 2 dB steps)		
White Balance	Auto, ATW, Manual, One Push, 3200K, 5800K	Auto/ATW/Indoor/Outdoor/One push/Manual		
Effects	Mirror Image, Still Image on Field Memory,	Neg. Art, Black & White		
	Pastel Image, Negative/Positive Reversal,			
	Sepia Image, Monochrome Image, Enhanced C	Contrast,		
	Mosaic Image, Vertical Stretch, Horizontal Stretch,			
	Motion Image on Still Image, Continuous Still	Image,		
	Motion Images on Binaried Still Image, After-	image		
	Lag of Moving Object	·		
S/N Ratio	More th	an 50 dB		
Position preset	_	6 positions		
Pan/Tilt	Horizontal: ± 100° (Max. speed: 300°/s),	Pan: ±170° (Max. speed: 100°/s),		
	Vertical: ± 25° (Max. speed: 125°/s)	Tilt: -30° to +90° (Max. speed: 90°/s)		
	(in 0.07° increments)	, , ,		
Video Output	VBS	, Y/C		
Control Terminal	_	RS-232C (8-pin mini DIN) control		
		(VISCA)/RS-422 (9-pin)		
		control (VISCA), baud rate:		
		9.6 Kb/s, 38.4 Kb/s		
Power Requirements	DC 10.8 to 13.0 V	DC 10.8 to 13.2 V		
Power Consumption	Max. 13.2 W (at 12 V DC)	12 W		
Operating Temperature	0 to 40 °C (32 to 104 °F)	0 to 40 °C (32 to 104 °F)		
Storage Temperature	-20 to 60 °C (-4 to 140 °F)	-20 to +60 °C (-4 to +140 °F)		
Dimensions (W x H x D)	113 x 120 x 132 mm	132 x 144 x 144 mm		
, ,	(4 ½ x 4 ¾ x 5 ¼)	(5 1/4 x 5 3/4 x 5 3/4 inches)		
Mass	860 g (1 lb. 14 oz.)	950 g (2 lb. 2 oz.)		
Supplied accessories	AC Adaptor (x1), IR Remote	AC adaptor, IR remote commander unit,		
	Commander unit (x1), Velcro tape (x1).	Ceiling bracket. Operating instructions		

Video Recorders

	HSR-X206P
Mass	6.4 kg (14 lb 1 oz)
Dimensions	420 (W) x 96 (H) x 376 (D) mm (16 5/8 x 3 7/8 x 14 7/8 inches)
Power requirements	AC 220 to 240 V, 50/60 Hz
Power consumption	32 W
Operating temperature	5 to 40 °C (41 to 104 °F)
Operating humidity	Less than 80 %
HDD capacity	320 GB (160 GB x 2)
Input	6 channels, VBS, VS (BNC) 1.0 Vp-p, 75 Ω unbalanced
	6 channels, VBS, VS (BNC) 1.0 Vp-p, 73 Ω unbalanced
Output (Loop through)	1 channel VPS VS (DNC) 1.0 Vp-p, 73 24 unbalanced
Monitor output 1 Monitor output 2	1 channel, VBS, VS (BNC) 1.0 Vp-p, 75 Ω unbalanced 1 channel, VBS, VS (BNC) 1.0 Vp-p, 75 Ω unbalanced
	Motion IDEC
Video compression	Motion-JPEG
Picture quality mode	HYPER: 52 kB/picture, SUPER: 44 kB/picture, HIGH: 32 kB/picture,
B: 1	MID: 24 kB/picture, LOW: 17 kB/picture
Picture resolution	720 x 288 pixels (Field mode)
Horizontal resolution	More than 500 TV lines (Hyper mode)
Signal to noise ratio	48 dB (typical, Hyper mode)
MIC input	1 channel monaural (Mini jack), -60 dB, 10 kΩ unbalanced
Line input	1 channel monaural (Phono jack), -8 dB, 27 kΩ unbalanced
Line output	1 channel Monaural (Phono jack), -8 dB, 600 Ω unbalanced
Signal to noise ratio	40 dB (typical)
Distortion	Less than 4 % at 1 kHz
Ethernet	100Base-TX/10Base-T
Alarm in 1-6	Normal open, Low active
Sensor Alarm out 1-6	Open collector, Low active
Remote 1 / Remote 2	2-wire type with resistance-based identification system
Alarm out	Open collector, Low active
Alarm reset	Incl. video loss reset, normal open, Low active
Clock set in	Normal open, Low active
Clock set out	Non rec out
Warning out	
Dick full out	5 V/5.7 kΩ Low active
Disk full out	5 V/5.7 kΩ Low active 5 V/5.7 kΩ Low active
Alarm full out	
External timer in	Normal open, Low active
Supplied Accessories	AC power code (1) Power cord tie (1) Rack mount kit (1)
	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4)
Supplied Accessories Optional Accessories	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo,
	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4)
	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot
	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo,
Optional Accessories	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P
	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot
Optional Accessories HDD capacity Playback During Recording	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes
Optional Accessories HDD capacity Playback During Recording Video signal	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour
Optional Accessories HDD capacity Playback During Recording Video signal Recording system	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2886 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s)
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video lipput	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC): 1.0 Vp-p, 75 Ω unbalanced
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Upput	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2886 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC): 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P), VBS, VS (BNC): 1.0 Vp-p, 75 Ω unbalanced
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC) : 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P), VBS, VS (BNC), 1.0 Vp-p, 75 Ω unbalanced
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector Split screen display	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC): 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P), VBS, VS (BNC), 1.0 Vp-p, 75 Ω unbalanced BNC (9) (16 for the HSR-X216P) 4 patterns (6 for the HSR-X216P)
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector Split screen display Quality mode	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC) : 1.0 Vp-p, 75 Ω unbalanced BNC (9) (16 for the HSR-X216P) 4 patterns (6 for the HSR-X216P)
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector Split screen display Quality mode Horizontal resolution	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC) : 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P) HSR-X216P) 4 patterns (6 for the HSR-X216P) Hyper, Super, High, Mid and Low modes (selectable) More than 500 TV lines (Hyper mode)
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector Split screen display Quality mode Horizontal resolution S/N ratio	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC): 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P), VBS, VS (BNC), 1.0 Vp-p, 75 Ω unbalanced BNC (9) (16 for the HSR-X216P) Hyper, Super, High, Mid and Low modes (selectable) More than 500 TV lines (Hyper mode) 40 dB (typical)
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector Split screen display Quality mode Horizontal resolution S/N ratio Mass	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC) : 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P) 4 patterns (6 for the HSR-X216P) 4 patterns (6 for the HSR-X216P) Hyper, Super, High, Mid and Low modes (selectable) More than 500 TV lines (Hyper mode) 40 dB (typical) 7.0 kg (15 lb. 7 oz.)
Optional Accessories HDD capacity Playback During Recording Video signal Recording system Compression Recording/Playback time Fast forward/Rewind time Video Input Video Output Loop out connector Split screen display Quality mode Horizontal resolution S/N ratio Mass Dimensions (W x H x D)	AC power code (1) Power cord tie (1) Rack mount kit (1) Operation Manual (1) Ferrite core (4) MSH-M32N/M64N/M128N Memory Stick Duo, MSAC-MCF1 Memory Stick Duo Adaptor for Compact Flash Slot HSR-X209P / HSR-X216P 320 GB/HDD Unit (160 GB: up to 2 HDDs) Yes CCIR standard, PAL colour N/A Motion JPEG 2686 hours in High mode or 1653 hours in Hyper mode (1-channel input, 1 picture/s) N/A 9 channels (16 for the HSR-X216P), VBS, VS (BNC) : 1.0 Vp-p, 75 Ω unbalanced 9 channels (16 for the HSR-X216P), VBS, VS (BNC), 1.0 Vp-p, 75 Ω unbalanced BNC (9) (16 for the HSR-X216P) 4 patterns (6 for the HSR-X216P) Hyper, Super, High, Mid and Low modes (selectable) More than 500 TV lines (Hyper mode) 40 dB (typical) 7.0 kg (15 lb. 7 oz.) 420 x 96 x 376 mm (16 5/8" x 3 7/8" x 14 7/8")
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Video Recorders

	SVT-N24P	SVT-N72P	SVT-RA96P
Tape format		VHS	
Tape speed	23.39 mm/s (3-hour mode) 11.70 mm/s (6 or 8-hour mode)		
Fast forward/rewind time	 Approx. 100 seconds (with an E-180 tape) 		
Recording system	Rotary 4-Head Helical Scanning System		
Video Input	BNC: 1.0 Vp-p, 75 Ω, unbalanced		
Video Output	BNC: 1.0 Vp-p, 75 Ω , 75 Ω , unbalanced		
Recording modes	3, 12, 24 Hrs. 3, 12, 24, 48, 72 Hrs 6, 18, 30, 48, 72, 96 Hrs		
	(with an E-180 tape)	(with an E-180 tape)	(with an E-180 tape)
Record interval (Approx.)	1/50 to 0.18 s	1/50 to 0.5 s	1/50 to 0.34 s
Mic input	ø 3.5	mm Mini-jack, -60 dB,	10 kΩ
Audio recording	3, 12, 24 Hour Mode	3, 12, 24 Hour Mode	6, 18, 30 Hour Mode
Audio input		-8 dB, 27 kΩ(phono jack	()
Audio output		-8 dB, 600 Ω(phono jack	()
Audio S/N ratio	42 dB	40 dB	40 dB
Horizontal resolution	350 TV lines (B/W)	350 TV lines (B/W)	350 TV lines (B/W)
	300 TV lines (Colour)	240 TV lines (Colour)	240 TV lines (Colour)
S/N Ratio	43 dB	44 dB	42 dB
Control terminal	ø 3.5 mm	Mini-jack RS-232C/RS-4	85 interface
Time/date		Yes	
Built-in timer	Yes	7-Day/8-Event	7-Day/8-Event
Alarm input		Low level	-
Alarm output		+5 V, 5.7 kΩ(Low active	4)
Alarm REC. speed	3, 12 Hrs.	3, 12, 24 Hrs.	E-180 type: 6, 18 Hrs.
	or No change	or No change	or No change
	_	-	E-240 type: 8, 24 Hrs.
			or No change
Alarm search	No	,	/es
Alarm scan		Yes	
Alarm log		Yes	
Operating temperature		5 to 40 °C (41 to 104 °F	-)
Power requirement		AC 220 to 240 V, 50/60 H	łz
Power consumption	18 W	14 W	16 W
Mass	3.8 kg (8 lb. 6 oz.)	4.3 kg (9 lb. 6 oz.)	4.3 kg (9 lb. 6 oz.)
Dimensions	240 x 96.5 x 333 mm		
(W x H x D)	(9 ½" x 3 ½" x 13 ½")	(16 5/8" x 4" x 11 7/8")	(16 5/8" x 4" x 11 7/8")
Supplied accessories	AC power	er cable (x1) Operation m	anual (x1)
Optional accessories	SVT-RM10 Remote control	unit SVT-RS100 Interface	board (RS-232C/RS-485)
			,
	HSR-DCT		
Dimensions (W x H x D)	298 x 210 x 210 mi	m	
Dowor oupply	12 V DC 1A		

	HSR-DCT	
Dimensions (W x H x D)	298 x 210 x 210 mm	
Power supply	12 V DC 1A	
Power consumption	15 W	
Operating temperature	0° to 45 °C (32° to 113°F)	
PTZ control	Joystick, 3 axis proportional	
Display	320 x 240 pixels back-lit by white LED	
Languages	Italian, English, French and German	
	Expandable to 12	
Security	Three passwords (Connection, Set-up, Alarm reset)	
Customisation	Up to 30 user maps	
Macro function keys	Max. 20	
INTERFACES		
Serial I/F	3x RS-485 (RJ11 connectors):	
	One line for Sony HSR-X209P/X216P,	
	Two lines for two independent telemetry daisy chain	
	up to 999 telemetry receivers	
	1x RS-232C for PC connection (layout creation,	
	keyboard set-up and firmware update)	
SUPPORTED PROTOCOLS		
Speed Dome control	Dome Elmo D7720B	
	Dome Ernitec Saturn	
	Dome JVC TK-C675, TK-C676	
	Dome Panasonic 600 and 850	
	Dome Pelco Spectra and Lite (Protocol D)	
	Dome Samsung SCC64-1P	
	Dome Sensormatic Delta Dome II	
	Dome Star	
	Dome VCL VC5S-ORBM	
Supplied Accessories	Instruction Manual, wide range power supply,	
	3 power cables, 6 telephone cables,	
	6 shunt boxes RJ jack	

Video Monitors

	SSM-14L1	SSM-20L1	
Colour system	em NTSC, PAL		
Power requirements	AC 100 to 24	0 V, 50/60 Hz	
Power consumption (Typical)	68 W 75 W		
Operating temperature	0 to 35 °C (32 to 95 °F)		
Storage temperature	-10 to 40 °C	(14 to 104 °F)	
Operating humidity	35 to 85% (No	condensation)	
Storage humidity	0 to	90%	
Dimensions (W x H x D)	Approx. 346 x 340 x 414 mm	Approx. 449 x 441 x 502 mm	
	(13 58 x 13 1/2 x 16 38 inches)	(17 3/4 x 17 3/8 x 19 7/8 inches)	
Mass	Approx. 15.0 kg (33 lb. 1 oz.)	Approx. 28.0 kg (61 lb. 12 oz.)	
CRT	CRT type*: 14-inch Trinitron, AG pitch: 0.25 mm	CRT type*: 20-inch Trinitron, AG pitch: 0.4 mm	
	Phosphor: P-22, Effective picture size (4:3)	Phosphor: P-22, Effective picture size (4:3)	
	267.5 (W) x 200.6 (H) mm, 340.0 (Diagonal) mm	385.8 (W) x 290.6 (H) mm, 481.3 (Diagonal) mm	
Centre Resolution (Y/C input 4:3)	600 T	/ lines	
Frequency response	8.0 MHz (0 -6) dB		
Scanning frequency	1 5.734 kHz (NTSC), 15.625 kHz (PAL)		
Normal scan	7% ov	erscan	
Linearity	Horizontal: Less than 8% (typ	pical), Vertical: Less than 7% (typical)	
Convergence	Centre: 0.4 mm (Typical),	Centre: 0.5 mm (Typical),	
	Peripheral: 0.5 mm (Typical)	Peripheral: 0.7 mm (Typical)	
Raster size stability	Horizontal: 1.0% (typical), Vertical: 1.5% (typical)	
HV regulation	3.5% (typical)	4.0% (typical)	
Colour temperature	D65/D93/Us	er adjustable	
Input/Output			
Line A	Composite: Loop-through E	SNC, 1.0 Vp-p +3 dB/-6 dB,	
	sync negative, autom	atic 75 Ω termination	
	Y/C**: Loop-through Mini Din	4-pin, automatic 75 Ω termination	
	Y: 1.0 Vp-p, s	sync negative	
	Audio: Phono jack, -5	dBu 47 kΩ or higher	
Line B	Composite: Loop-through BNC, 1.0 Vp-p, sync negative,		
	automatic 75 Ω termination		
	Y/C**: Mini Din 4-pin, automatic 75 Ω termination		
	Y: 1.0 Vp-p +3 dB/-6 dB, sync negative		
	C: 0.286 Vp-p (NTSC), 0.3 V	'p-p (PAL) 75 Ω termination	
	Audio: Phono jack, -5	dBu 47 kΩ or higher	
Remote		odular 8-pin (Fixed)	
Audio output	0.8 W (Distortion	n: Less than 5%)	
Regulation Compliance	UL-1950, CSA-950, EN 6095		
	IC class A, C-Tick, CE (LVE), CE (EMC), JEITA, DHHS,	
	DNHW, CCC	, KTL, BSMI	

^{*} Viewable area, measured diagonally

^{**} The Y/C input has priority over the composite input

Printers

	UP-51MD/1	UP-21MD	UP-D23MD
Drinting method	Or OTHERT		
Printing method Resolution	300 dpi	Dye sublimation printin 403 dpi	403 dpi (thermal head)
Gradation	256 levels		IC image process using 8bits/
Gradation	250 164613		256 gradations per colour,
	Over 16.7 million	Over 16.7 million	approx. 16.7 million
		colours per dot	colours per dot
Effective print pixels	colours per dot 1920 x 1176 dots	S Size 1524 x 1176 dots	S size 1520 x 1144 dots
		L Size 1524 x 1458 dots	
Media size	A5 Size 100 x 90 mm	A6 S Size 100 x 90 mn	
	(5 ½" x 8 ½")	(4" x 3 5/8")	(4" x 3 5/8")
		A6 L Size 144 x 100 mi	m L size 144 x 100 mm
		(5 ³ ⁄ ₄ " x 4")	(5 3/4" x 4")
Print area	S Size : 117.0 x 170.9 mm	S Size 95.8 x 72.7mm	S size Full 95.8 x 72.1 mm
	1 0: 107 1 105 1	(Full print mode)	(3 4/5" x 2 4/5")
	L Size 127.4 x 165.1 mm		L size Full 126 x 95.8 mm
Printing time	UPC-510 (Colour Media):	(Full print mode) UPC-21S approx.	(5 ½5" x 3 ½") UPC-21S approx.
Frinting time	approx. 22 seconds	17 seconds	19 seconds
	UPC-540	UPC-21L approx.	(High-speed mode)
	(Self Laminating Media):	25 seconds	UPC-21L approx.
	approx. 33 seconds	20 30001103	29 seconds
	approxi oo ooconac		(High-speed mode)
Picture memory	Eight frame memories	Four Frame Memories	* 18 Mbytes
	3		(Two Frame Memories)
Inputs/Outputs		Video, S-Video, RGB	
Control terminals	RM-5500, Special mini,	Special mini, Stereo mir	ni, USB (Revision 2.0)
	Stereo mini, Footswitch,	D-sub 9-pin	
	RS-232C (D-Sub,25-pin)	201/ 50/00 11	
Power requirements		0V, 50/60 Hz	_
Power consumption	AC 220 to 2-	40, 50/60HZ	120 V: 1.8 A;
rower consumption	2.0 A		240 V: 1.0 A
Mass	14 kg (31 lb)	6.5 kg (14 lb. 5 oz.)	Approx. 6.5 kg
			(14 lb. 5 oz.)
Dimensions	370 x 125 x 475 mm	212 x 125 x 395 mm	
(W x H x D)	(14 5⁄8" x 5" x 18 3⁄4")	(8 3⁄8" x 5" x 15 5⁄8")	(8 3g" x 5" x 15 5g")
Driver Software	_	_	Windows 98/Me,
			Windows 2000/XP
Safety Standards	UL 1950, UL 2601-1,	UL2601-1, CSA C22.2	
	CSA C22.2 No.	No.601.1, EN60601-1	
	950, No. 601.1		+CSA C22.2
	EN 60950, EN 60601-1		No.601.1 EN60950+EN60601-1.
			IEC60601-1+IEC60950
Supplied accessories	Ink Ribbon Holder (x1)	AC power cable (x1)	Print tray (L tray) (x1)
Cappilou doccoodiles	AC power cable (x1)	Operation manual (x1)	
	Paper tray (x1)	Print tray (x1)	Thermal head
	Print tray (x1)	Colour Print Pack	cleaning cartridge (x1)
	Colour Print Pack (20 prints)		Caution sheet 'Before Using
	Operation manual (x1)		this Printer' (x1)
			USB connecting cable
		(Hi	-speed USB Revision 2.0) (x1)
0 :: 1	1100 540 /540	1150 010	Stoppers (x2)
Optional accessories	UPC-540/540MD	UPC-21S	UPC-21S
	Self-laminating	Colour Print Pack	Colour Print Pack
	Colour Print Pack (102 prints) UPC-510	(240 prints) UPC-21L	(240 prints) UPC-21L
	Colour Print Pack	Colour Print Pack	Colour Print Pack
			(200 prints)
	(200 prints)	(200 prints)	
	(200 prints) UPA-50RH Ink Ribbon Holder	`RM-5500´	ÙPA-21SÁ
	(200 prints) UPA-50RH Ink Ribbon Holder RM-5500 Wired/Wireless	RM-5500 Wired/Wireless	
	(200 prints) UPA-50RH Ink Ribbon Holder RM-5500 Wired/Wireless Remote Commander	RM-5500 Wired/Wireless Remote Control Unit	ÙPA-21SÁ Slide Adaptor
	(200 prints) UPA-50RH Ink Ribbon Holder RM-5500 Wired/Wireless	RM-5500 Wired/Wireless	UPA-21SA Slide Adaptor Jnit

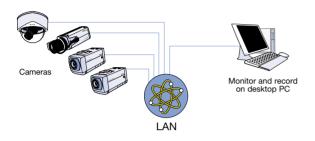
All print quantity numbers are measured in default setting. All non-metric weights and measures are approximate.
* Eight frame memories will be available soon.

Printers

	UP-960CE	UP-D895
Printing method	Direct thermal printing	
Thermal head	162 dpi	325 dpi
Gradation	256 grey levels	
Effective print pixels	(CCIR) 1280 x 607 dots	Max. 1280 x 4096 dots
Print area (CCIR)	(EIA) 1280 x 507 dots (Standard mode and Wide 1 mode)	Max. 100 x 320 mm (4 x 12 58")
(EIA)	Standard mode:	Max. 100 x 320 11111 (4 x 12 36)
(LIA)	190 x 142 mm (7 1/2" x 5 5/8")	
	Side mode:	
	181 x 243 mm (7 1/4" x 9 58")	
	Standard mode:	
	190 x 144 mm (7 1/2" x 5 3/4")	
	Side mode:	
	184 x 243 mm (7 1/4" x 9 58")	
Printing time	Approx. 12 seconds per screen	Approx. 3.9 seconds
		(1280 x 960 dots) Approx. 5.1 seconds
		(1280 x 1280 dots)
Picture memory	2048 x 1024 x 8 bit	8 MB
Inputs/Outputs	Video	Parallel (IEEE 1284) /
		USB (version 1.0)
Control terminals	Stereo mini	_
Power requirements	AC 220 to 240 V, 120 V, 50/60 Hz	100-120 V, 220-240 V, 50/60 Hz
Power consumption	AC 220 to 240 V: 1.3 A;	Approx. 120 W
Mass	120 V: 2.4 A 8 kg (17 lb. 10 oz.)	Approx. 20 W (stand-by mode) Approx. 3.4 kg (7 lb. 8 oz.)
Dimensions	316 x 132 x 305 mm	154 (W) x 105 (H) x 260 (D) mm
(W x H x D)	(12 1/2" x 5 1/4" x 12 1/8")	(6 1/8 x 4 1/4 x 10 1/4 inches)
Driver Software	(12 12 X 0 T 1 X 12 T 0)	Parallel (IEEE 1284):
		Windows 95/98/ME/2000,
		Windows NT 4.0
		USB (version 1.0):
		Windows 98/ME/2000
Safety Standards	EN60950, EN60601-1,	UL: UL 1950, UL 2601-1 CSA:
	CE (MDD, EMC. LVD)	CSA C22.2 No. 950, No. 601.1 TUV: EN 60950, EN 60601-1
		CE: LVD, MDD CCIB: GB 4943
Supplied accessories	BNC cable 1.5 m (x1)	Driver Software (1)
cuppiicu uccccoiiico	AC power cable (x1)	AC Power Cord (x1)
	Operation manual (x1)	Operation Manual (x1)
	UPP-110HG print pack (x1)	UPP-110HG `
	Head cleaning sheet (x1)	High Glossy Print Media (x1)
		Head Cleaning Sheet (x1)
Optional accessories	UPP-210HD Type II	UPP-110HG
	High Density Print Paper (126 prints)	High Glossy Print Media (110 mm x 18 m) (x1)
	UPP-210SE Type II	(110 mm x 18 m) (x1) UPP-110HD
	Normal Density Print Paper	High Density Print Media
	(126 prints)	(110 mm x 20 m) (x1)
	RM-91 Remote Control Unit	UPP-110S Normal Type Print Media
	FS-20 Foot Switch	(110 mm x 20 m) (x1)
		· · · · · · · · · · · · · · · · · · ·

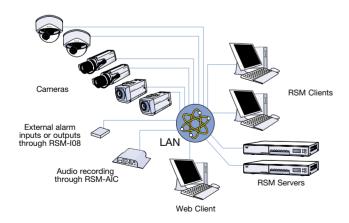
Network Video Monitoring - Small Installation

RealShot Manager software running on a standalone PC allows viewing, recording and management of images from up to 32 cameras. Images from all cameras can be viewed on-screen simultaneously, while RealShot Manager also allows remote configuration and control of camera functions such as image quality, resolution and PTZ.



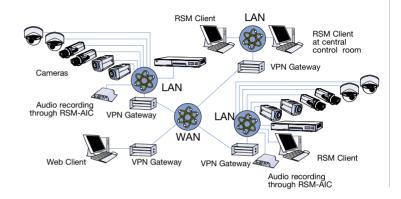
Network Video Monitoring - Medium Sized Installation

Attaching one or more RealShot Manager (RSM) servers (FSV-RSM9/FSV-RSM16) to a network allows storage and management of images from up to 32 connected cameras. 'Live' or recorded images can be viewed on any client PC running RSM or a standard web browser, connected via either LAN or the Internet. Audio and signals from existing alarm sensors can be carried across the same network using the RSM-AIC and RSM-I08, eliminating the need for additional cabling.

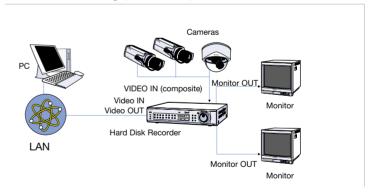


Network Video Monitoring - Multiple Sites Installation

Multiple sites at a number of different locations can be linked across a WAN (Wide Area Network) or the Internet. A VPN (Virtual Private Network) gateway at each site location ensures that camera images, alarm signals and audio can be sent securely over public networks. Cameras can be controlled by authorised users at any location using RSM client software running on a standard PC connected to the network. Simple viewing of camera images is also possible via a PC and web browser with no additional software required.



Hard Disk Recording (HSR-X206P)



Day/Night and Remote Controlled Operation (SSC-DC593P)

