

Security Solutions

Digital | IP

Winter 2010

Introduction



IP Solutions



MPEG-4 DVR's



JPEG2000 DVR's



Accessories



Commercial LCDs



Display walls

Mitsubishi Electric is a global leader in the research, manufacturing and marketing of electrical and electronic equipment used in communication, consumer electronics, industrial technology, energy and transportation.

With over 30 years of experience within the security surveillance industry, Mitsubishi have developed a full line up of advanced security products. Providing one complete solution from recording to storage and display, our product range includes a selection of IP cameras, MPEG-4 and JPEG2000 digital video recorders, LCD display monitors and large format DLP™ display walls.

Built to the highest standard our latest selection of IP cameras feature full frame rates of up to 25fps, are MPEG-4 compatible and come equipped with the latest video analytics enabling motion based video recording. Designed to combat crime, the further enhanced video analytics package, available as an optional upgrade, benefits from people counting functionality and has been designed to detect and alert users of suspicious behaviour.

For reliable 24/7 surveillance, all of Mitsubishi's MPEG-4 recorders feature motion detection, time and date search facility and are easy to install and operate, whilst our JPEG2000 DVR's feature triplex operation and have been approved by the Kalagate imagery bureau as providing 'safe evidence' for many courts of law in the UK.

Also available are our comprehensive range of LCD's and DLP™ display wall solutions that enable the display of high quality footage and feature multi-screen display, as well as zooming functions. Ideal for control room applications our displays provide crystal clear images for optimum security surveillance.

Furthermore our comprehensive software package, NetHunter IP, can operate our entire product range and all of our products are supported by our in-house technical support team providing a complete solution for all of your security needs.

COMPATIBLE IP CAMERAS

				NEW 	NEW 	NEW 	NEW 	NEW 
	NM-C110	NM-C130FD	NM-C150SD	NM-IP100*	NM-IP1100*	NM-IP1100M*	NM-IP3500*	NM-IP4500*
Description	Indoor Box	Indoor/Outdoor Dome	Speed Dome	Indoor Mini Dome	Indoor Standard Box	Megapixel Box	Indoor/Outdoor Dome	Outdoor PTZ 36x Optical Zoom Dome
Image Sensor	1/4" CCD	1/3" Super HAD CCD	Ex-view HAD CCD	1/4 VGA CMOS	1/3" Super HAD CCD	Aptina (Micron) 1/3.2" (4:3) CMOS 2M	1/3" Super HAD CCD	1/4" Exview HAD CCD
Lens	C/CS Mount	Varifocal 4-9mm	18x optical	3.6mm F2.0, Board Type	C/CS Mount	C/CS Mount	2.8-10.5mm F1.2 DC Auto Iris Board Vari-Focal	36x Optical Zoom (F=1.6-F4.5, f=3.4 to 122.4mm) 12x (432x with optical)
Day & Night	NO	YES	YES	YES (S/W)	YES (IR CUT FILTER)	YES (S/W)	YES (IR CUT FILTER)	YES
Minimum Illumination	1 lux	0,3 lux /color 0,002 lux (sens up)	0,7 lux (color) 0,05 lux (F1.4, 1/3s) 0,002 lux (1/4s wo IR cut)	3 Lux (Colour) 0.1 Lux (DSS On)	0.3 Lux (50 IRE, AGC HIGH, DNR HIGH) 0.002 Lux (Sens-up x 128)	0.5 Lux (50IRE), 0.1 Lux (DSS x5 ON)	0.3 Lux (50 IRE, AGC HIGH, DNR HIGH) 0.002 Lux (Sens-up x 128)	0.1 Lux (50 IRE): (Normal mode), 0.01 Lux (ICR On): (Night mode)
PTZ	NO	NO	YES	NO	NO	NO	NO	YES
WDR	NO	NO	NO	NO	NO	NO	NO	YES
Analog Video Out	NO	YES (BNC)	YES (BNC)	NO	YES (BNC)	NO	YES (BNC)	YES (BNC)
Compression	MPEG-4	MPEG-4	MPEG-4	MJPEG/MPEG-4/H.264	MJPEG/MPEG-4/H.264	MJPEG/MPEG-4/H.264	MJPEG/MPEG-4/H.264	MJPEG/MPEG-4/H.264
Dual Stream	YES	YES	YES	YES	YES	YES	YES	YES
Resolution	VGA	D1	D1	D1, CIF, QCIF	D1, CIF, QCIF	UXGA, SXGA, HD720, XGA, D1, 4CIF, VGA, CIF, QVGA, QCIF	D1, CIF, QCIF	D1, CIF, QCIF
FPS (PAL)	25 fps @ VGA	25 fps @ D1	25 fps @ D1	25 fps @ D1	25 fps @ D1	[H.264] 5 fps @ UXGA, 8 fps @ SXGA, 15 fps @ XGA	25 fps @ D1	25 fps @ D1
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
DI/DO	2/1	N/A	2/1	N/A	1/1	1/1	1/1	4/2
Video Analytics	MD	MD	MD	YES	YES	YES	YES	YES
USB 2.0	NO	NO	NO	NO	YES	YES	NO	YES
microSD	NO	NO	NO	NO	YES	YES	YES	YES
PoE	NO	NO	NO	NO	YES (IEEE 802.3af)	YES (IEEE 802.3af)	YES (IEEE 802.3af)	NO
Indoor / Outdoor	Indoor/outdoor (requires housing)	Indoor/outdoor IP 66	Indoor	Indoor	Indoor/outdoor (requires housing)	Indoor/outdoor (requires housing)	Indoor/outdoor	Outdoor




*Manufactured by Y.H.Info

IP Hardware / IP Cameras

PC/Server recording


Mitsubishi offers a complete IP hardware and software solution from IP cameras, NVR, encoders, joysticks and accessories. Our hardware and software solutions can support other manufacturers IP cameras including Axis and Y.H.Info.

ENCODERS

		NEW 	COMING SOON 
	NM-VS100	NM-VC1000*	NM-VC4000*
Description	4 Channel Network Encoder	1 Channel D1 Network Video Encoder	4 channel H.264 D1 Network Video Encoder
Maximum Frame Rate	Max 25 fps @ D1	Max 25 fps @ D1	Max 100 fps @ D1
Compression	MPEG-4 SP and ASP	MJPEG/MPEG-4/H.264	MJPEG/MPEG-4/H.264
Alarm and Event Management	Built-in Motion Detection, (MD) Adjustable Sensitivity and Dwelling Time, Emailing, FTP	YES	YES
Protocols	TCP/IP, UDP, HTTP, RTP, RTSP, DHCP, SMTP, DDNS	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, FTP, DDNS, SSL v2/v3, IEEE 802.1X, SSH
Video Analytics	YES (MD)	YES	YES
Image Setting	Colour, Brightness, Contrast	YES	YES
Web Browser	IE 6.0 or above	YES	YES
Power Source	5V DC	12V DC	12V DC
RS-485 Interface	1EA, PTZ Control,	Supported	Supported
Weight	360g	385g	850g

*Manufactured by Y.H.Info

NETWORK VIDEO RECORDER

	
	DX-NV100E
Compression formats	MPEG-4/H.264
Recording number of IP cameras	Max. 16 units
HDD	500 GB SATA HDD x2 (Spanning: 1000 GB, Mirroring 500 GB switchable)
Recording	Continuous / alarm recording / pre-alarm recording Alarm recording start trigger (i/O rear panel, MD by camera)
I/O Terminal	4 (for CH1-CH4)
Searching Data Acquisition	Alarm list/Time date
Connector	LAN for PC, IP camera connection
Network	LAN 10 BASE-T/100 BASE-TX IP Address Easy Setup Function

PC / Server recording

Mitsubishi provides the minimum specifications for the PCs/servers where IP cameras can be recorded. Please contact Mitsubishi for more information regarding the specifications.

Encoders

Our range of encoders have been designed to connect existing analogue cameras with an IP network, allowing users to monitor analogue images within an IP system. The dedicated software enables multiple users simultaneously regardless of distance and location.

IP Recording Devices / NVR

Complementing Mitsubishi's range of IP cameras is the DX-NV100E, a stand alone NVR capable of recording MPEG-4 and H.264 compression formats. Secure and robust, the DX-NV100E is able to record up to 16 IP cameras continuously and features motion detection modes for reliable 24/7 surveillance. A 1TB internal HDD allows users to mirror footage for secure data storage, whilst a pre alarm recording device and 4 external I/O for external alarm recordings ensures you will never miss a thing.

MPEG-4

JPEG2000



DX-TL304E

DX-TL308E

DX-TL5716E

DX-TL4509E

DX-TL4516E

DX-TL5000E

Video Inputs	4	8	16	9	16	16
Video output - VGA and Composite	YES	YES	YES	Composite Only	Composite Only	Composite Only
Audio Inputs	1	1	2	1	1	4 (Optional Card)
Multiplexer Functions	4 Way and Single View	4,8 and Single View	4,9,10,13,16 and Single View	4,9 and Single View	4,9,10,13,16 and Single View	4,9,10,13,16 and Single View
Covert Camera	YES	YES	YES	YES	YES	YES
Password Protection	Multi Password Options	Multi Password Options	Multi Password Options	3 Levels	3 Levels	3 Levels
Motion Detection	Two Patterns per Camera	Two Patterns per Camera	Two Patterns per Camera	Two Patterns per Camera	Two Patterns per Camera	Two Patterns per Camera
Maximum Recording Rate (PPS)	100 IPS	200 IPS	400 IPS	100 FPS	100 FPS	200 FPS
Compression Method	MPEG-4	MPEG-4	MPEG-4	JPEG2000	JPEG2000	JPEG2000
Maximum Resolution	450 TVL	450 TVL	450 TVL	450 TVL	450 TVL	450 TVL
Pre-Post Alarm	Both Post & Pre Alarm Options	Both Post & Pre Alarm Options	Both Post & Pre Alarm Options	Both Post & Pre Alarm Options	Both Post & Pre Alarm Options	Both Post & Pre Alarm Options
Alarm Inputs	4	8	16	9	16	16
Spot Monitor with Split / Sequence	YES	YES	YES	YES	YES	YES
LAN	YES	YES	YES	YES	YES	YES
Web Server	YES	YES	YES	YES	YES	YES
Duplex	YES	YES	YES	YES	YES	YES
Storage Options	2 x Internal HDD	2 x Internal HDD	2 x Internal HDD	2 x Internal HDD	2 x Internal HDD	4 x Internal HDD
Maximum Storage Capacity	18 HDD's (Internal:2, External:16 Spanning) using ZD6 expansion	18 HDD's (Internal:2, External:16 Spanning) using ZD6 expansion	34 HDD's (Internal:2, External:32 Spanning) using ZD6 expansion	30 HDD's (Internal:2, External:28 Spanning) using ZD6 expansion	30 HDD's (Internal:2, External:28 Spanning) using ZD6 expansion	30 HDD's (Internal:2, External:28 Spanning) using ZD6 expansion
Serial Interface	RS232	RS232	RS232	RS232	RS232	RS232
Archive	USB Download	USB Download	CD/DVD-R/RW Drive or USB Memory Stick	CD/DVD-R/RW Drive or USB Memory Stick	CD/DVD-R/RW Drive or USB Memory Stick	CD/DVD-R/RW Drive or USB Memory Stick
Archive Options	USB or Via Mitsubishi Software	USB or Via Mitsubishi Software	USB/CD/DVD-R/RW or Via Mitsubishi Software	USB/CD/DVD-R/RW or Via Mitsubishi Software	USB/CD/DVD-R/RW or Via Mitsubishi Software	USB/CD/DVD-R/RW or Via Mitsubishi Software
Hardware Options	ZD6 Hard Disk Extender	ZD6 Hard Disk Extender	KB5 Keyboard, ZD6 Hard Disk Extender	KB5 Keyboard, ZD6 Hard Disk Extender	KB5 Keyboard, ZD6 Hard Disk Extender	KB5 Keyboard, ZD6 Hard Disk Extender
Telemetry	RS422 / RS485 Coaxial (Pelco, Dennard)	RS422 / RS485 Coaxial (Pelco, Dennard)	RS422 / RS485 Coaxial (Pelco, Dennard)	RS422 / RS485 Coaxial (Pelco, Dennard)	RS422 / RS485 Coaxial (Pelco, Dennard)	RS422 / RS485 Coaxial (Pelco, Dennard)
Software Option	Mitsubishi NetHunter, Web Browser	Mitsubishi NetHunter, Web Browser	Mitsubishi NetHunter, Web Browser	Mitsubishi NetHunter, Web Browser	Mitsubishi NetHunter, Web Browser	Mitsubishi NetHunter, Web Browser
Dimensions W x H x D	300 x 91 x 340 mm	300 x 91 x 340 mm	425 x 133 x 375 mm	425 x 133 x 375 mm	425 x 133 x 375 mm	425 x 185 x 390 mm
Weight	5.6kg (without HDD)	5.7kg (without HDD)	10.4kg (with 1 HDD)	9.5kg (with 1 HDD)	9.8kg (with 1 HDD)	13.4kg (with 1 HDD)

Mitsubishi Software Solutions

Net Hunter .IP

Mitsubishi Electric have developed a unique software management system specifically for today's versatile and ever changing security surveillance market. Providing one complete and flexible solution NetHunter IP not only manages Mitsubishi's current range of IP cameras, NVR's and DVR's but has also been designed to operate with a range of global IP products produced by manufacturers from across the world.

NetHunterIP is an essential single-server video system that has been designed to manage IP cameras, NVR and DVR's. By combining Mitsubishi's CCTV expertise with a new user-friendly design format, NetHunterIP can integrate IP and analogue cameras seamlessly. Operation could not be simpler with features such as camera control, motion detection, intelligent PTZ and local drive archiving.

For further flexibility, NetHunter IP is compatible with a wide range of global IP solutions and is accessible through fully-featured remote access, allowing users to monitor their footage from across the world. Based on an adaptable server-client architecture system, users can combine multiple clients with multiple recording devices including DVR, NVR & IP server and users can choose to install the software on just one PC or multiple PCs for complex CCTV installations.

NetHunter IP is compatible with:

- Mitsubishi IP systems, Box camera, Dome camera, PTZ camera, IP video server and NVR
- Mitsubishi DVR's, current and future models
- IP Cameras from other manufacturers, please contact Mitsubishi Electric for further information

NetHunter IP functionalities:

- Single server video surveillance for managing Mitsubishi IP cameras, Mitsubishi NVR's and Mitsubishi DVR's
- Multiple clients supported

- Multiple server recorders supported that provide unlimited IP cameras recording capabilities
- Automatic IP cameras and NVR searches
- Live view and playback
- PTZ management, including presets, tours, patterns and autoscan
- Multiple playback from the same recording device
- Matrix alarm, hardware & metadata triggered hardware
- Long pre-alarm, unlimited pre-recording times
- Event management functionality: sounds, playback, filters
- Remote configuration of IP systems and DVR's
- Bandwidth control for ADSLs
- Multiple view layouts. Fully configurable split layouts
 - Save personalised views and retrieve information from any client
- Multiple screen support and Mitsubishi Data Display Walls
- MAPS management
- User creations and maintenance with permissions
- Export JPEG/MPEG images from live or recorded video
- Automated and manual downloads from the recorded video
 - Digital signature with encrypted password
- Different scenarios support
 - Scalable systems through NVR's and/or DVR's and/or IP Server recorders
 - Network storage options: NAS, SAN
- Backup server settings, configuration and easy importing
- Easy to use interface
- API for third party integrators
- Platform to support Video Analytics applications

System Requirements:

Contact Mitsubishi for service specification.

NetHunter IP is certified to run with XP, Vista and 32 bit.

DX-PC200

DX-PC200 security control software has been developed to view live and replay video data recorded by Mitsubishi's digital video recorders. The software is used in monitoring and controlling the search, playback, pause, fast-forward, rewind even scheduling backups and downloads of CCTV security recordings. Remote control and remote menu configuration settings of the DVR's is also possible. The software allows for single screen operation, along with a multiplex option of multiple camera feeds from multiple DVR's on the one screen.

DX-PC200 Features:

- Single screen operation, control and multiplex of live camera feeds from multiple DVR's on one screen
- Only requires a TCP/IP network interface for CCTV control and interaction
- DVR status monitoring and event monitoring by list of connected recorder
- Simultaneous playback during recording, loading of the latest live images and recorded video archiving
- Time search and alarm list display/search
- Remote control and menu configuration setting of the digital recorder
- PTZ camera control
- Alarm notification
- Audio replay (available if audio recording enabled)
- Bookmark function

Accessories



DX-ZD6E Extension Unit



DX-KB5E Security Controller Keyboard



Housings

DX-ZD6E Extension Unit

The DX-ZD6E has been designed as a simple and easy way to increase the storage capacity of Mitsubishi DVR's offering a long term recording solution. Via a USB connection the DX-ZD6E can be connected to the DVR, which will automatically recognise the external memory unit and calculate how much additional storage is available.

Compatible with:

DX-TL5000E, DX-TL4516E, DX-TL4509E, DX-TL5716E, DX-TL308E, DX-TL304E

Features:

- USB Connection
- Connected Units:
 - DX-TL5000E / DX-TL4516E / DX-TL4509E = Up to 14
 - DX-TL304E / DX-TL308E = Up to 8
 - DX-TL5716E = Up to 16
- Standard 1TB
- Long term recording solution

DX-KB5E Security Controller Keyboard

Designed for quick and easy control of digital security recorders the DX-KB5E comes in a sleek compact design with an intuitive layout for quick access to DVR controls.

Fully featured the DX-KB5E comes with a joy stick for PTZ control of various dome cameras, LCD display to show the status of a DVR, jog/shuttle dial and multiplexer display buttons.

Compatible with:

DX-TL5000E, DX-TL4516E, DX-TL4509E, DX-TL5716E

Features:

- PTZ control of dome cameras
- Triplex playback
- Split screen buttons
- Jog shuttle dial for FF / REW / Playback operation

Video Analytics

As standard Mitsubishi's new IP cameras come equipped with video analytics that include:

- Advanced Tracking Algorithm
- Low False Alarm Rate
- Intuitive Web Browser Interface
- Multi-segment Polygons and Lines
- Real-time Display of Tracking Data and Events

As an optional upgrade the advanced video analytics application will benefit from a variety of functions including:

- Behaviour Detection
- Statistical Analysis e.g. people and vehicle counting
- 3D Behaviour
- Meta Data

Compatible with:

NM-IP110, NM-IP1100, NM-IP1100M, NM-IP3500, NM-IP4500, NM-VC1000, NM-VC4000

Housings

Our housing units have been developed to protect and secure PTZ and box cameras. Vandal proof, the units offer a compact design, with built in fan and heater options available.

Joystick

Mitsubishi's joystick allow users to manage IP PTZ cameras with pan, tilt and zoom functionality.



32" LDT322V

42" LDT422V

42" MDT421S S

Orientation		Landscape / Portrait	Landscape / Portrait	Landscape / Portrait
Bezel Size		1.73"	1.73"	0.63"
Size		32"	42"	42" Slim Bezel
Resolution		1366 x 768 (WXGA)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)
Format		16:9	16:9	16:9
Brightness		450cd/m ²	500cd/m ²	700cd/m ²
Weight (w/o stand)		14.5kg	20.5kg	23.5kg
Contrast Ratio		2500:1	1300:1	1100:1
Technology		LCD	LCD	LCD
Speakers		7W+7W	7W+7W	7W+7W
Input / Output	Video Input	Composite <BNC/RCA>, Y/C <S-video>, Component <BNC>, DVI-D	Composite <BNC/RCA>, Y/C <S-video>, Component <BNC>, HDMI (PC/AV common), DVI-D (PC/AV common)	Composite <BNC/RCA>, Y/C <S-video>, Component <BNC>, HDMI (PC/AV common), DVI-D (PC/AV common)
	Audio Input	RCA (L/R) x2, Stereo Mini Jack x1	RCA (L/R) x2, Stereo Mini Jack x1, HDMI (digital audio)	RCA (L/R) x2, Stereo Mini Jack x1, HDMI (digital audio)
	AV Input	BNC (R,G,B,H,V), Mini D-sub 15 pin, DVI-D (PC/AV common)	BNC (R,G,B,H,V), Mini D-sub 15 pin, HDMI (PC/AV common), DVI-D (PC/AV common)	BNC (R,G,B,H,V), Mini D-sub 15 pin, DVI-D (PC/AV common)
	Audio Output	RCA pin jack (L/R)	RCA pin jack (L/R)	RCA pin jack (L/R)
	Communication	RS-232C (Mini D-sub 9 Pin) 1x in	RS-232C (Mini D-sub 9 Pin) 1x in	RS-232C (Mini D-sub 9 Pin) 1x in
	Supported Resolution	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 simpl.compression	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 simpl.compression, 1920x1080, 1920x1080 (simpl.compression)	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1920x1080, 1920x1200* (*simpl.compression)
	Signals Video Input	NTSC/NTSC4.43/PAL / SECAM/PAL-60	NTSC/NTSC4.43/PAL / SECAM/PAL-60	NTSC/NTSC4.43/PAL / SECAM/PAL-60
Signals Compatibility	Comp.:480i, 480p, 720p, 1080i, Digital: 480p, 720p	Comp.:480i, 480p, 720p, 1080i, Digital: 480p, 720p, 1080i, 1080p	Comp./Digital:480i, 480p, 576i, 576p, 720p, 1080i	
Dimensions W x H x D (w/o stand)		789 x 476 x 133 mm	1023 x 614 x 133 mm	966 x 559 x 116 mm
Standard Accessories		Power Cord, VGA cable, Cable Holder, Remote Control, Clamper, Main Switch Cover, User Manual	Power Cord, VGA cable, Cable Holder, Stand x2, Remote Control, Clamper x2, Main Switch Cover, User Manual	Power Cord, VGA cable, Remote Control, Clamper, Main Switch Cover, User Manual
Optional Accessories		SP-321V (Speakers), ST-322V (Stand)	SP-422V (Speakers), ST-422V (Stand)	SP-421S (Speakers), ST-421S (Stand), OB-421S-AS (Silver Bezel)
Speaker Dimensions W x H x D		75 x 545.8 x 83 mm	95 x 612 x 72.1 mm	95 x 612 x 72.1 mm
Viewing Angle		Up and Down 178° / Left and Right 178°	Up and Down 178° / Left and Right 178°	Up and Down 178° / Left and Right 178°
CAT5 Receiver		No	No	Optional
Face Up Mode		No	No	No
Tiling Mode		Yes, up to 16 (4x4)	Yes, up to 25 (5x5)	Yes, up to 25 (5x5)
Warranty		3 year onsite exchange	3 year onsite exchange	3 year onsite exchange

Special LCD

Slim bezel	46" LDT461V2	52" MDT521S Slim bezel	NEW 65" MDT651S Slim bezel
Portrait	Landscape / Portrait	Landscape / Portrait	Landscape / Portrait
Bezel	1.98"	0.77"	1.20"
Full HD	46"	52" Slim Bezel	65" Slim Bezel
Resolution	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)
Aspect Ratio	16:9	16:9	16:9
Brightness	450cd/m ²	700cd/m ²	700cd/m ²
Weight	28kg	40kg	46.5kg
Contrast Ratio	4000:1	2000:1	2500:1
Panel Type	LCD	LCD	LCD
Viewing Angles	7W+7W	7W+7W	7W+7W
Inputs	Composite <BNC/RCA>, Y/C <S-video>, Component <BNC>, HDMI (PC/AV common)	Composite <BNC/RCA>, Y/C <S-video>, Component <BNC>, HDMI, DVI-D (PC/AV common)	Composite <BNC>, Y/C <S-video>, Component <BNC>
Outputs	RCA (L/R) x2, Stereo Mini Jack x1	RCA (L/R) x2, Stereo Mini Jack x1	RCA (L/R) x2, Stereo Mini Jack x1
Connectors	BNC (R,G,B,H,V), Mini D-sub 15 pin, HDMI (PC/AV common)	BNC (R,G,B,H,V), Mini D-sub 15 pin, HDMI, DVI-D (PC/AV common)	BNC (R,G,B,H,V), Mini D-sub 15Pin, HDMI, DVI-D (PC/AV common), DisplayPort
Audio	RCA pin jack (L/R)	RCA pin jack (L/R)	RCA pin jack (L/R)
Video In	RS-232C (Mini D-sub 9 Pin) 1x in	RS-232C (Mini D-sub 9 Pin) 1x in/1x out	RS-232C (Mini D-sub 9 Pin) 1x in/1x out
Resolution	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200*, 1920x1080, 1920x1200* (*simpl. compression)	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200*, 1920x1080, 1920x1200* (*simpl.compression)	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200*, 1920x1080, 1920x1200* (* simpl.compression)
Standards	NTSC/NTSC4.43/PAL / SECAM/PAL-60	NTSC/NTSC4.43/PAL / SECAM/PAL-60	NTSC/NTSC4.43/PAL / SECAM/PAL-60
Refresh Rate	Comp./Digital:480i, 480p, 720p, 1080i, 1080p	Comp./Digital:480i, 480p, 576i, 576p, 720p, 1080i, 1080p	Comp./Digital:480i, 480p, 720p, 1080i, 1080p
Dimensions	1122 x 663 x 136 mm	1202 x 698 x 122 mm	1498 x 873 x 139 mm
Accessories	Power Cord, VGA cable, Cable Holder, Stand x2, Remote Control, Clamper x2, Main Switch Cover, User Manual	Power Cord, VGA cable, Remote Control, Clamper x2, User Manual, CAT5 Tx Box, CD-rom	Power Cord, VGA cable, Remote Control, Clamper x2, User Manual, CAT5 Tx Box, CD-rom
Audio	SP-461V Speakers	SP-521S (Speakers), ST-521S (Stand), OB-521S-AS (Silver Bezel)	SP-521S (Speakers)
Depth	95 x 663 x 81.6 mm	80 x 698 x 72.1 mm	80 x 698 x 72.1 mm
Tilt	Up and Down 178° / Left and Right 178°	Up and Down 178° / Left and Right 178°	Up and Down 178° / Left and Right 178°
Touchscreen	No	Yes	Yes
Smart TV	No	Yes	No
Warranty	Yes, up to 25 (5x5)	Yes, up to 25 (5x5)	Yes, up to 25 (5x5)
Exchange	3 year onsite exchange	3 year onsite exchange	3 year onsite exchange

Display wall - 46", 50", 60", 67" and 80" overview



VS-L46XM70U

46" Ultra Slim LCD
Internal processing capabilities
WXGA (1366 x 768 pixels)
3000:1 contrast ratio
700cd/m² of brightness
D-Wall software suite (optional)



50PE / 60PE / 67PE*

50" / 60" / 67" SXGA+LED option
Internal processing capabilities
Rear access
1900:1 contrast ratio
550/380/300cd/m² of brightness
D-Wall software suite (optional)



50PEF / 60PEF / 67PEF*

50" / 60" / 67" SXGA+LED option
Internal processing capabilities
Front access
1900:1 contrast ratio
550/380/300cd/m² of brightness
D-Wall software suite (optional)



50XE / 60XE / 67XE*

50" / 60" / 67" XGA LED option
Internal processing capabilities
Rear access
1700:1 contrast ratio
510/350/280cd/m² of brightness
D-Wall software suite (optional)



50XEF / 60XEF / 67XEF*

50" / 60" / 67" XGA LED option
Internal processing capabilities
Front access
1700:1 contrast ratio
510/350/280cd/m² of brightness
D-Wall software suite (optional)



50PH / 60PH / 67PH*

50" / 60" / 67" SXGA+
Internal processing capabilities
Dual lamp, lamp changer
Rear access
2400:1 contrast ratio
1150 / 800 / 640cd/m² of brightness
D-Wall software suite (optional)



50PHF / 60PHF / 67PHF*

50" / 60" / 67" SXGA+
Internal processing capabilities
Dual lamp, lamp changer
Front access
2400:1 contrast ratio
1150 / 800 / 640cd/m² of brightness
D-Wall software suite (optional)



50XH / 60XH / 67XH*

50" / 60" / 67" XGA
Internal processing capabilities
Dual lamp, lamp changer
Rear access
2200:1 contrast ratio
1150 / 800 / 640cd/m² of brightness
D-Wall software suite (optional)



50XHF / 60XHF / 67XHF*

50" / 60" / 67" XGA
Internal processing capabilities
Dual lamp, lamp changer
Front access
2200:1 contrast ratio
1150 / 800 / 640cd/m² of brightness
D-Wall software suite (optional)



50XL / 60XL / 67XL*

50" / 60" / 67" XGA
Internal processing capabilities
Single lamp
Rear access
2200:1 contrast ratio
1150 / 800 / 640cd/m² of brightness
D-Wall software suite (optional)



50XLF / 60XLF / 67XLF*

50" / 60" / 67" XGA
Internal processing capabilities
Single lamp
Front access
2200:1 contrast ratio
1150/800/640cd/m² of brightness
D-Wall software suite (optional)



80PH

80" SXGA+
Internal processing capabilities
Dual lamp, lamp changer
Rear access
2400:1 contrast ratio
150cd/m² of brightness
D-Wall software suite (optional)

Processors



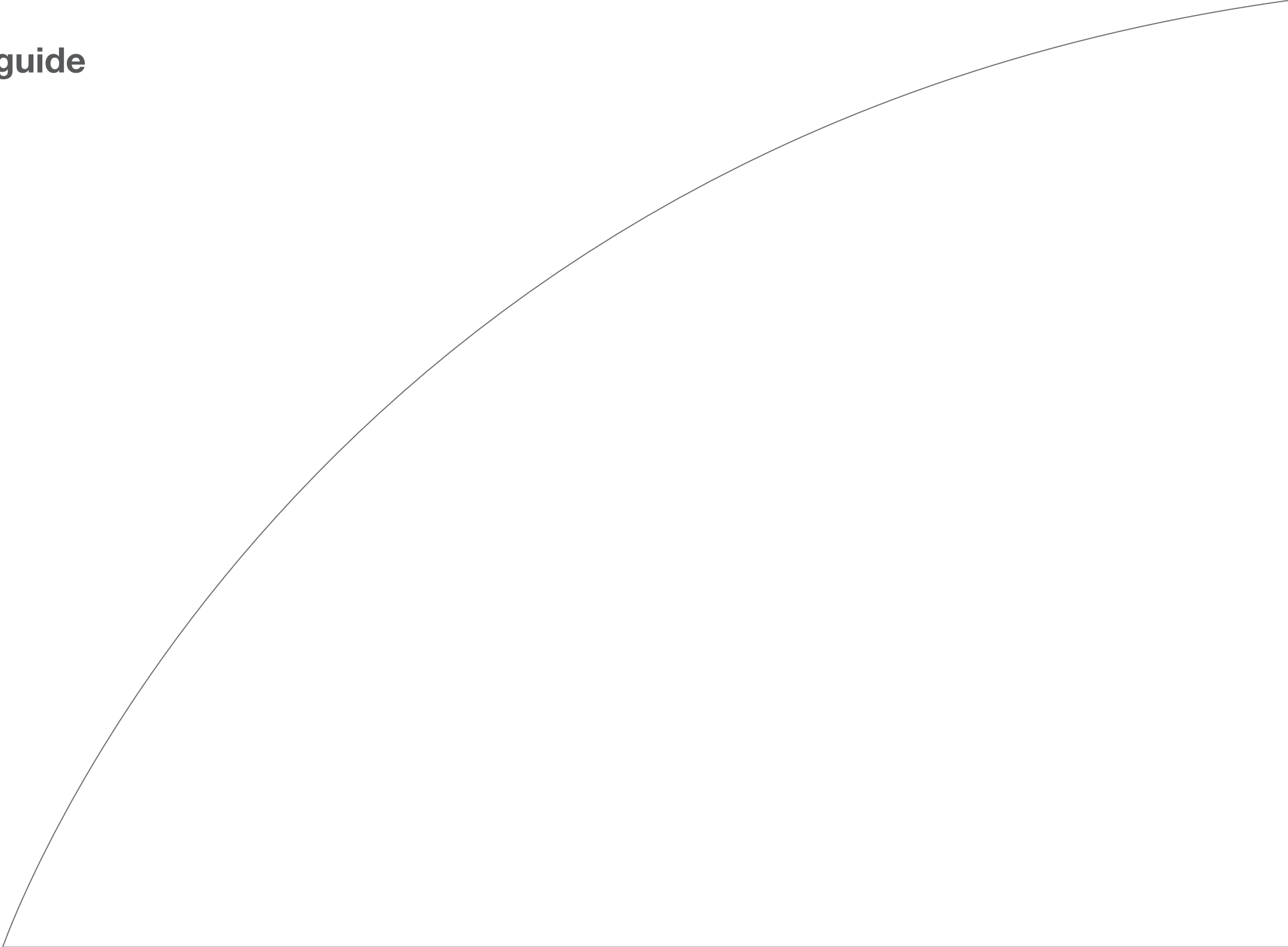
VC-X3000

The VC-X3000 display wall processor puts all of your data and video on the display wall just the way you want to see it. With great flexibility and ease of use, the system is highly reliable with redundant power supplies, fans and RAID disks. The VC-X3000 also manages the display wall itself, monitoring and controlling brightness, lamp changers, power on / off and key operating parameters. Without adding an expansion chassis, the VC-X3000 processor can provide 24 outputs, 48 video inputs, 12 DVI / VGA inputs and unlimited network inputs – all in one unit:

- Up to 64 output channels per system
- Up to 128 freely moveable video inputs per system
- Up to 62 channels DVI / VGA inputs
- Redundant power supplies, fans and RAID redundant disk controller
- Multiple client control stations
- Multi mouse cursor application control
- Scaleable with expansion chassis

*As standard all Seventy Series display wall cubes come with a Black Stripe Screen, an optional Black Bead Screen is available upon special request

guide



Dealer Stamp

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Specifications subject to change without notice (E+OE).