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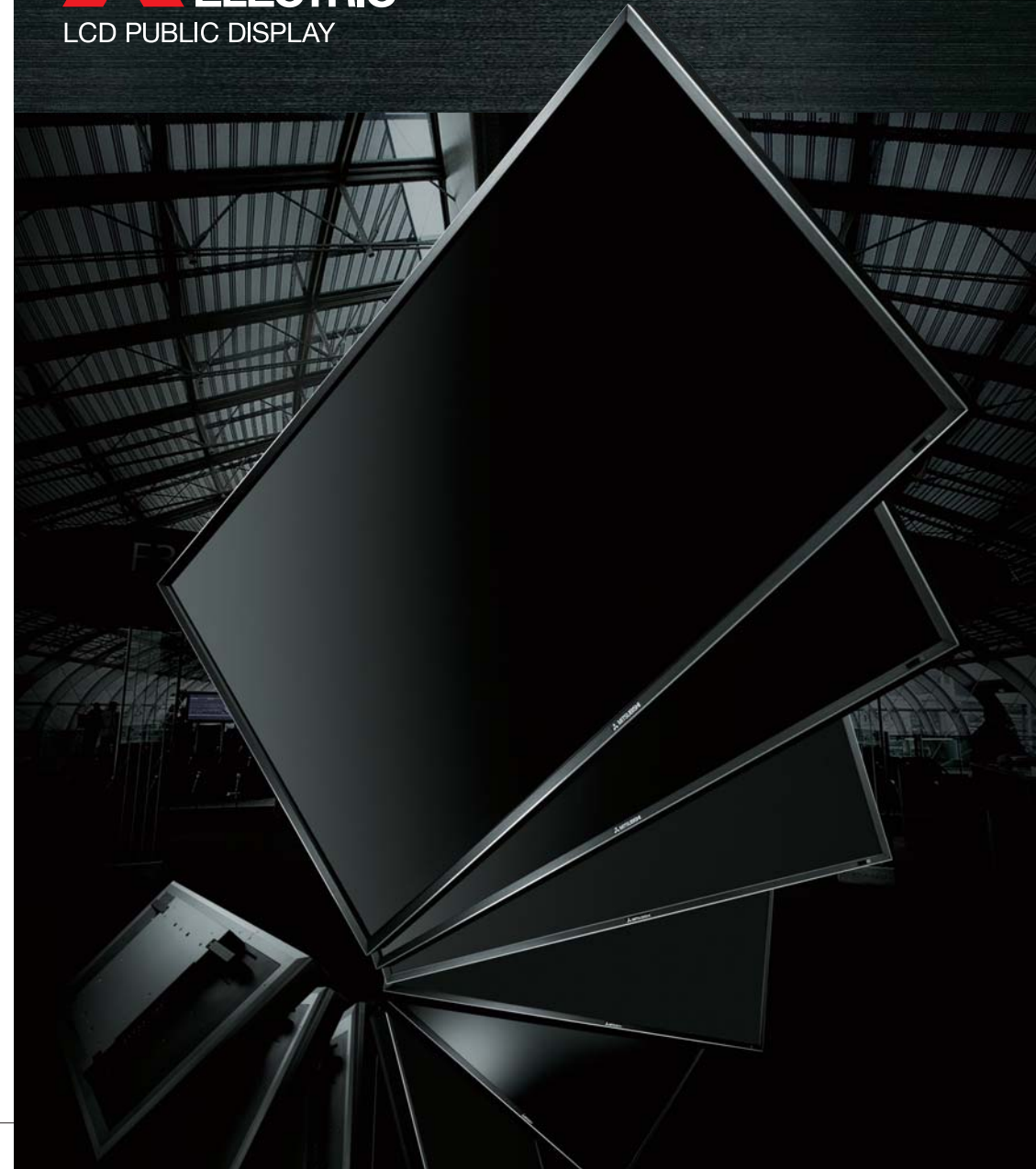
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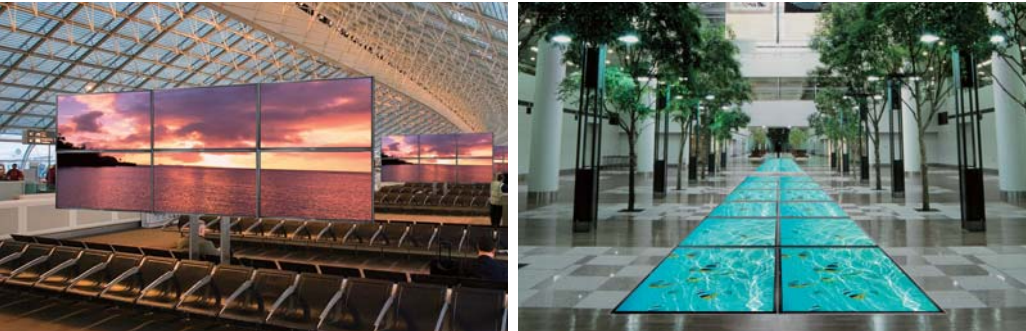
 **MITSUBISHI
ELECTRIC**
LCD PUBLIC DISPLAY

Changes for the Better



LCD DISPLAYS FOR DIGITAL SIGNAGE APPLICATIONS

Introducing the Ultimate Experience in Digital Signage – Specially engineered for public display applications



Unsurpassed functionality and high durability ensure superior performance in public spaces such as airports and commuter stations.



Digital signage with stunning high-definition image quality aesthetically integrated into any commercial-use environment.



MDT42IS/MDT52IS/MDT65IS

Highly functional, durable public displays for demanding commercial-use applications



MDT65IS: 31mm
MDT52IS: 19.5mm
MDT42IS: 16mm

Stylish design with black hairline finish

Simple back design easily integrates into walls
(Back of the MDT52IS shown)

Slim and ergonomic front appearance emphasises premium quality.

Silver bezel available as option for MDT42IS/52IS only.

Full 1920x1080 High-definition Resolution



Signals from video and computer sources reproduced with sharpness and clarity. All MDT Series models offer 1920 x 1080 full high-definition resolution and exceptionally durable panels, thereby reducing the risk of image persistence in commercial applications

High Brightness & High Contrast

The MDT Series of LCD public displays reproduce images and data in 700cd/m² brightness and at high contrasts up to 2500:1*. These functions ensure the delivery of truly impressive images and sharp, clear information even in well-lit public spaces.

*MDT65IS

Video and Serial Control using Category-5 (CAT5) Cable

CAT5 ensures image quality installation flexibility and serial control

Supports Cable Lengths of Up to 150 metres

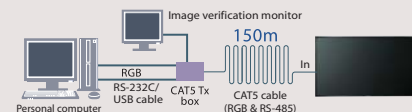
Long VGA cables can lead to a loss in image quality and higher installation costs. The MDT52IS and MDT42IS have a built-in CAT5 receiver and CAT5 transmitter box as standard equipment (optional for the MDT42IS), enabling the connection of much longer cables without degrading the high picture quality.



*MDT42IS: Slot for optional CAT5 receiver

Video and Serial-control Signals via Single CAT5 Cable

Utilising the CAT5 transmitter box, video and RS-485 serial-control signals can be sent using the same CAT5 cable, eliminating the need for a separate serial-control cable.



*Compatibility with commercially available controllers is not guaranteed. To create an environment for transmitting RS-485 signals, special software different to that with RS-232C compatibility is required. For details, please contact a Mitsubishi Electric dealership.

Link Up to Five Displays in Series using CAT5 Connections

Use the daisy-chain connection function of the CAT5 receiver and output terminal to link up to five displays in series via CAT5 cables.



Allowable cable length

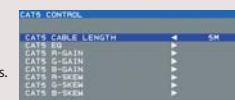
Connection	Max. cable length	Signal timing
One monitor	150m	1920x1080/60Hz
Multiple monitors	200m*	1920x1080/60Hz

* Total length of connected cables.

* Length of connectable cable depends on signal source and quality.

CAT5 Image Quality Correction Tools

Various features have been incorporated to prevent the degradation of image quality over long cable lengths.



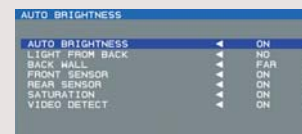
- 1) Cable Length Selector
Changes to optimised default settings for cable lengths
- 2) Equaliser Function
Optimises signal shape to minimise image blur on the screen
- 3) R/G/B Gain Adjustment
Brightens dark images
- 4) R/G/B Skew Compensation
Corrects colour deviation

* CAT5 connectors can only be connected to the CAT5 transmitter box, included with the MDT52IS and MDT65IS models, and available as an option for the MDT42IS. Do not attempt to connect any other network hardware as it may result in damage to the hardware connected, transmitter box and/or displays

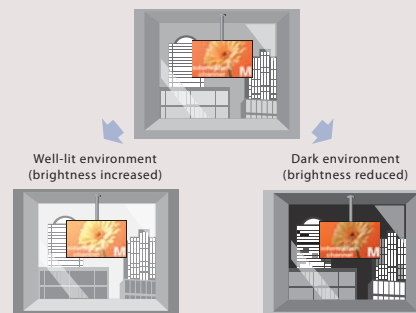
Auto Brightness Control

Front/Rear sensors - a unique innovation from Mitsubishi Electric

MDT Series models are equipped with light sensors, one each installed in the front and rear for automatic brightness control. Even when used at venues where lighting conditions change continuously, optimum viewing is ensured. An added benefit is that panel service life and energy savings are increased through lower power consumption in darker environments.

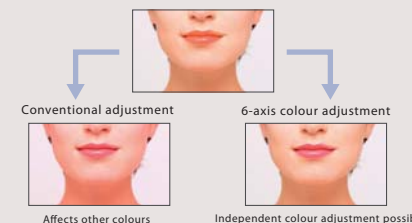
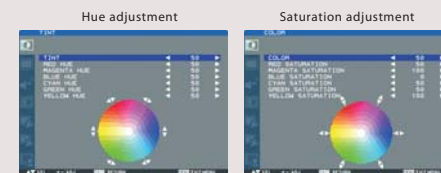


Normal environment



6-axis Colour Adjustment

Using the remote controller it is possible to choose a specific colour from R, G, B, C, M or Y and adjust its hue and saturation independently. This is especially useful for adjusting the colours of specific parts in digital posters or company/brand logos in signage applications.



*Photos are simulated images.
The ability to adjust colours independently depends on the image contents.

Colour Matching for Multi-screen Applications (available as service option only)

Qualified service personnel can utilise original colour-calibration software and a designated colour sensor to adjust the white-point and brightness levels to match adjacent panels.



* This service is not available in all countries and regions. Please check with a local dealership regarding availability in your area.

LAN-based Control (for MDT65IS)

The MDT65IS model can be controlled remotely via an Ethernet LAN, Utilising the same basic commands as Mitsubishi Electric projectors, total system configuration is simple and easy.



In-floor/Face-up* Use Realised - Expanding Installation Beyond Landscape and Portrait Applications

Display orientation is a key factor for the presentation and appearance of digital signage. Advanced design technologies allow maximum flexibility in the positioning of the MDT52IS, from landscape, portrait and angled positions to fully flat (face-up*) installations.

* Internal cooling fan must operate full-time when a panel is used in a face-up installation. Face-down/upside-down installation is not supported.



Enhanced Connectivity with DisplayPort Terminal

The MDT42IS and MDT65IS are equipped with a DisplayPort terminal, a next-generation digital interface designed to enable maximum display performance and deliver video and other signals over a single cable up to 15 metres in length.



LDT322V/LDT422V/LDT461V2

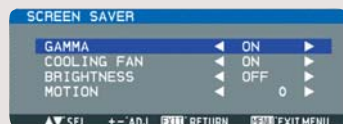
Cutting-edge technologies and features for expanding digital signage applications



Multi-level Screensaver Function

To reduce image persistence and maximise panel service life in demanding signage applications, all models are equipped with a four-level screensaver function. Each level can be set to meet specific application requirements.

- Gamma mode: Optimises the gamma curve
- Cooling fan mode: Fan operates continuously rather than automatically activating when internal temperature reaches the pre-designated limit
- Brightness mode: Adjustment of display brightness
- Motion mode: Images can be slightly shifted in four directions according to user-specified time intervals



Programmable Scheduling Function

Up to seven different scheduled intervals can be programmed according to time, day of week and input port. Additionally, content from different sources can be scheduled for specific displays within the same installation. Increased panel service life and energy savings are also possible through a well-planned schedule in which displays are turned off when not required.



Tiling Capability with Frame Compensation

Combine up to 25 panels (5 wide x 5 high) to create a single large image (i.e video wall) or other high-impact signage. A frame compensation function is incorporated to adjust for the width of panel bezels so that images are displayed with the utmost accuracy.



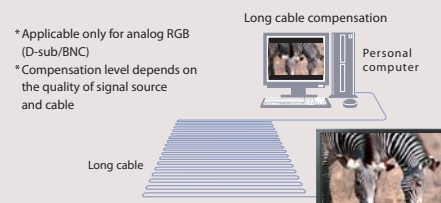
Connect up to a maximum of 25* panels (5 x 5)

* LDT322V: a maximum of 16 panels (4 x 4)



Long Cable Compensation

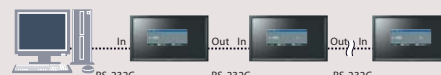
Long sections of RGB signal cable may cause a loss in image quality. To maintain maximum quality, the LDT461V2 is equipped with a long cable compensation feature that can be turned on during installation and adjusted for various cable lengths.



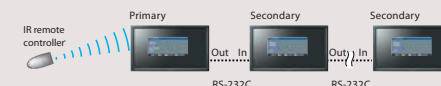
- * Applicable only for analog RGB (D-sub/BNC)
- * Compensation level depends on the quality of signal source and cable

Remote Management & Diagnostics via Bi-lateral RS-232C Communications

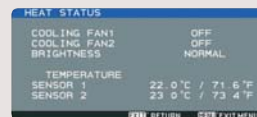
Use this feature to create an independent interface on a personal computer for remote control and adjustment of displays. Models 42" and larger can be daisy-chained to save on cabling costs as illustrated below. Daisy-chained displays can be simultaneously controlled or adjusted. Using a unique ID number, each display (up to 26 in a daisy-chain) can also be controlled independently.



For the MDT Series and LDT461V2, daisy-chain capability also enables all daisy-chained displays to be controlled simultaneously using an IR remote controller from a single master display location, saving time onsite.



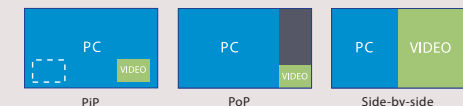
In addition, critical indicators of display status such as input signal, cooling fan and internal temperature can be verified remotely (cooling fan starts automatically when the internal temperature rises beyond a certain limit). Remote asset management is also available to verify model and serial number.



PiP, PoP and Side-by-side

Picture-in-Picture and Picture-out-of-Picture modes are provided, enabling content from a video input source to be displayed in window format while displaying the main image from the computer input source or vice versa.

The MDT Series, LDT422V and LDT461V2 are equipped with a side-by-side mode, an ideal feature for broadcasting and video-conferencing applications.



Wide-ranging Colour Temperature Adjustment

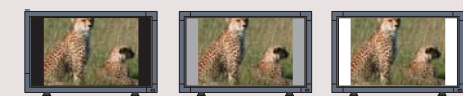
Colour temperature can be adjusted across a wide range, from 2,600-10,000K. This is an important function for signage displays used in broadcasting, retail, food and other industries where image reproduction in true colours and tones is vital.



*For LDT322V, only colour temperatures of 5,000, 6,500 or 9,300K can be selected.

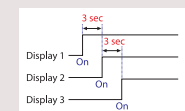
Side Border Colour Select

When the 4:3 screen is being displayed, the side border colour can be selected from black, grey and white.



Power-on Delay

For installations employing numerous displays, the power-on delay function allows each display to be set to power-up between 1-50 seconds after power is supplied. This allows the displays to power-up sequentially, avoiding inrush current problems and reducing overall electrical load requirements when using the same power supply.

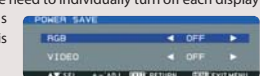


Auto Adjust & Auto Set-up

Automatically adjusts the screen position, phase and clock when the input signal timing is changed. In addition, Auto Set-up quickly adjusts more items such as screen size and white and black levels with a single touch via the IR remote control.

Power-save Function for PC and Video Signals

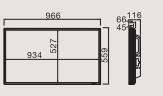
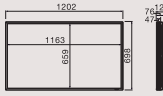
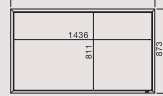
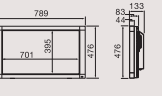
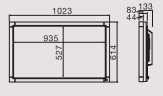
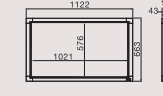
The display can be set to automatically go into power management mode when either the PC signal (RGB sync) or video input signal is lost. This saves both power and the need to individually turn off each display when not in use, such as during the time a location is closed.



IR Remote Lock

The remote-control receiver can be turned off to prevent unauthorised personnel from changing display settings or selected inputs.

Full Line-up

Resolution			MDT Series LCDs			LDT Series LCDs		
Size			Full HD			Full HD		
Model			42	52	65	32	42	46
Dimensions								
Specifications								
LCD module	Orientation		Landscape/Portrait	Landscape/Portrait/Face up	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait
	Screen size (diagonal)		42" (1067mm)	52" (1322mm)	64.5" (1639mm)	31.5" (800mm)	42" (1067mm)	46" (1168mm)
	Panel type		IPS	VA	VA	VA	IPS	VA
	Pixel pitch		0.485mm	0.600mm	0.744mm	0.511mm	0.485mm	0.530mm
	Resolution		1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1366 x 768	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)
Viewing area	Colour		Approx. 1.06 billion	Approx. 16.7 million	Approx. 16.7 million	Approx. 16.7 million	Approx. 1.06 billion	Approx. 16.7 million
	Brightness (typ.)		700cd/m²	700cd/m²	700cd/m²	450cd/m²	500cd/m²	450cd/m²
	Contrast ratio		1100:1	2000:1	2500:1	1300:1	4000:1	4000:1
	Viewing angle (CR≥10)		Up/Down 178°, Left/Right 178°	Up/Down 178°, Left/Right 178°	Up/Down 178°, Left/Right 178°	Up/Down 178°, Left/Right 178°	Up/Down 178°, Left/Right 178°	Up/Down 178°, Left/Right 178°
	Response time		9ms (Grey to Grey)	8ms (Grey to Grey)	8ms (Grey to Grey)	6.5ms (Grey to Grey)	9ms (Grey to Grey)	8ms (Grey to Grey)
OSD user functions	Power management		VESA DPM	VESA DPM	VESA DPM	VESA DPM	VESA DPM	VESA DPM
	Plug-n-Play		VESA DDC2B, DDC/CI	VESA DDC2B, DDC/CI	VESA DDC2B, DDC/CI	VESA DDC2B, DDC/CI	VESA DDC2B, DDC/CI	VESA DDC2B, DDC/CI
	Auto adjustment		Position, Phase, Clock	Position, Phase, Clock	Position, Phase, Clock	Position, Phase, Clock	Position, Phase, Clock	Position, Phase, Clock
			Brightness, contrast, auto brightness, zoom, PIP, screensaver, side border colour, Gamma selection, heat status, power-on delay, schedule, tiling, etc.	Brightness, contrast, auto brightness, zoom, PIP, screensaver, side border colour, Gamma selection, heat status, power-on delay, schedule, tiling, CATS control, etc.	Brightness, contrast, black level, auto brightness, zoom, PIP, screensaver, side border colour, Gamma selection, heat status, power-on delay, schedule, tiling, CATS control, LAN control, closed caption, etc.	—	Brightness, contrast, black level, zoom, PIP, screensaver, side border colour, Gamma selection, heat status, power-on delay, schedule, tiling, etc.	—
			—	—	—	—	—	—
PC Input/Output	Input connector (Analog)		—	Mini D-sub 15-pin, BNC (R, G, B, H, V); PC/AV common)	—	Mini D-sub 15-pin, BNC (R, G, B, H, V)	Mini D-sub 15-pin, BNC (R, G, B, H, V); PC/AV common)	Mini D-sub 15-pin, BNC (R, G, B, H, V)
	Output connector (Analog)		HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common), DisplayPort	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common), DisplayPort	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)
	CATS input		Optional modular 8-pin x 1 providing RGB differential video and RS-485 control support	Modular 8-pin x 1 providing RGB differential video and RS-485 control support	1 providing RGB RS-485 control support	—	—	—
	CATS input		Optional modular 8-pin x 1 providing RGB differential video and RS-485 control support	Modular 8-pin x 1 providing RGB differential video and RS-485 control support	1 providing RGB RS-485 control support	—	—	—
	Horizontal frequency		15.625/15.734, 31.5 - 91.1kHz	15.625/15.734, 31.5 - 91.1kHz	50.0, 58.0 - 85.0Hz	31.5 - 91.1kHz	15.625/15.734, 31.5 - 91.1kHz	15.625/15.734, 31.5 - 91.1kHz
Input/Output signal	Vertical frequency		—	—	—	—	—	—
	Video signal		—	—	—	—	—	—
	Sync signal		—	—	—	—	—	—
	Resolutions supported		—	—	—	—	—	—
	Input connector (Analog)		Composite video <BNC, RCA>, S-terminal, BNC(Y/Pb/Pr/PC/AV common)	Composite video <BNC>, S-terminal, BNC(Y/Pb/Pr/PC/AV common)	Composite video <BNC>, S-terminal, BNC(Y/Pb/Pr/PC/AV common)	Composite video <BNC, RCA>, S-terminal, BNC(Y/Pb/Pr, PC/AV common)	Composite video <BNC>, S-terminal, component <BNC (Y/Pb/Pr, PC/AV common)>	Composite video <BNC, RCA>, S-terminal, BNC(Y/Pb/Pr, PC/AV common)
AV Input/Output	Output connector		HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)
	Resolutions supported		Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60	Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60	Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60	Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60	Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60	Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60
	Input connector (Analog)		—	—	—	—	—	—
	Output connector		—	—	—	—	—	—
	External speaker output		—	—	—	—	—	—
Power supply	Control Input/Output		RS-232C<D-sub 9-pin>	RS-232C<D-sub 9-pin>	RS-232C<D-sub 9-pin>	—	RS-232C<D-sub 9-pin>	RS-232C<D-sub 9-pin>
	Output connector		—	—	—	—	—	—
	Voltage, Current		232W (214W w/o speakers)	380W (360W w/o speakers)	487W (460W w/o speakers)	103W (85W w/o speakers)	203W (182W w/o speakers)	265W (245W w/o speakers)
	Consumption		Less than 5W with CATS (optional) Input selected	Less than 5W with CATS (optional) Input selected	Less than 5W with CATS (optional) Input selected	Less than 5W with CATS (optional) Input selected	Less than 5W with CATS (optional) Input selected	Less than 5W with CATS (optional) Input selected
	Consumption in economy mode		Less than 3W with other input selected	Less than 3W with other input selected	Less than 3W with other input selected	Less than 3W with other input selected	Less than 3W with other input selected	Less than 3W with other input selected
Operating environment	Temperature		Landscape mode: 5-40°C (41-104°F)	Landscape mode: 5-40°C (41-104°F)	Landscape mode: 5-40°C (41-104°F)	Landscape mode: 5-40°C (41-104°F)	Landscape mode: 5-40°C (41-104°F)	Landscape mode: 5-40°C (41-104°F)
	Humidity		Portrait mode: 5-35°C (41-95°F)	Portrait mode: 5-35°C (41-95°F)	Portrait mode: 5-35°C (41-95°F)	Portrait mode: 5-35°C (41-95°F)	Portrait mode: 5-35°C (41-95°F)	Portrait mode: 5-35°C (41-95°F)
	Net		966 x 559 x 116mm (38.0 x 22.0 x 4.6")	1202 x 698 x 122mm (47.3 x 27.5 x 4.8")	1498 x 873 x 139mm (59.0 x 34.4 x 5.5")	789 x 476 x 133mm (31.1"x18.7"x5.2")	1023 x 614 x 133mm (40.3"x24.2"x5.2")	1122 x 663 x 136mm (44.2 x 26.1 x 5.4")
	Overall		1130 x 709 x 280mm (44.5 x 28.0 x 11.0")	1405 x 951 x 275mm (55.3 x 37.4 x 10.8")	1774 x 1200 x 375mm (69.8 x 47.2 x 14.8")	930 x 645 x 325mm (36.7"x25.4"x12.8")	1150 x 775 x 295mm (45.3"x30.5"x11.8")	1285 x 885 x 275mm (50.6 x 38.8 x 10.8")
	Net		Approx. 23.5kg/51.8lb	Approx. 40.0kg/88.2lb	Approx. 46.5kg/102.5lb	Approx. 20.5kg/45lb	Approx. 20.5kg/45lb	Approx. 28.0kg/61.6lb
Wall mounting interface	Gross		Approx. 31.0kg/68.3lb	Approx. 49.0kg/108.0lb	Approx. 62.4kg/137.6lb	Approx. 20.0kg/44.1lb	Approx. 27.7kg/61lb	Approx. 35.0kg/77.0lb
			12 holes, M6 screws (100mm (4.0") pitch) for monitor mount	8 holes, M8 screws (200mm (7.9") pitch) for monitor, Signage player	4 holes x 2 sets, M4 screws (100mm (4.0") pitch) for SBC, mounted on monitor	—	12 holes, M6 screws (100mm (4.0") pitch) for monitor mount	—
			—	—	—	—	—	—
			—	—	—	—	—	—
			—	—	—	—	—	—
Regulation/Guideline compliance								
Accessories			Power cord, signal cable (mini D-sub 15-pin to mini D-sub 15-pin cable), User's Manual, wireless remote control, batteries, clamps, etc.	Power cord, signal cable (mini D-sub 15-pin to mini D-sub 15-pin cable), User's Manual, wireless remote control, batteries, clamps for power cord and HDMI cable, CATS transmitter box, CD-ROM (USB driver), etc.	Power cord, signal cable (mini D-sub 15-pin to mini D-sub 15-pin cable), User's Manual, remote control, batteries, clamps for power cord and HDMI cable, CATS transmitter box, CD-ROM, etc.	Power cord, signal cable (mini D-sub 15-pin to mini D-sub 15-pin cable), User's Manual, remote control, batteries, main power switch cover, clamps, cable bands, etc.	Power cord, signal cable (mini D-sub 15-pin to mini D-sub 15-pin cable), User's Manual, remote control, batteries, main power switch cover and screws, clamps for power cord and HDMI cable, clamps and screws for securing panel	Power cord, signal cable (mini D-sub 15-pin to mini D-sub 15-pin cable), User's Manual, wireless remote control, batteries, clamps, main power switch cover, cable bands, etc.
Functions & Features								
Colour temperature			2600-10000K (100k step)	2600-10000K (100k step)	2600-10000K (100k step)	5000K/6500K/9300K/User	2600-10000K (100k step)	2600-10000K (100k step)
Digital zoom			✓ (custom zoom)	✓ (custom zoom)	✓ (custom zoom)	✓ (custom zoom)	✓ (custom zoom)	✓ (custom zoom)
Tiling and frame compensation			Max.5 x 5	Max.5 x 5	Max.5 x 5	Max. 4 x 4	Max. 5 x 5	Max. 5 x 5
PIP/PoP			PIP, PoP, Side-by-side	PIP, PoP, Side-by-side	PIP, PoP, Side-by-side	PIP, PoP	PIP, PoP, Side-by-side	PIP, PoP, Side-by-side
Scheduling			✓	✓	✓	✓	✓	✓
Screensaver (Motion)			✓	✓	✓	✓	✓	✓
Side border colour			✓	✓	✓	✓	✓	✓
Power-on delay			✓	✓	✓	✓	✓	✓
Long cable compensation			—	—	—	—	—	—
Monitor control (RS-232C)			—	—	—	—	—	—
Monitor control (LAN)			—	—	—	—	—	—
Self-diagnostics			—	—	—	—	—	—
CATS Receiver			—	—	—	—	—	—
Auto Brightness			option	—	—	—	—	—

*HDCP compatibility is not supported when DVI-D is connected to a Macintosh computer. HDCP: High-bandwidth Digital Content Protection

Options

Stereo Speakers



Stands



Coloured Bezels



Other Options

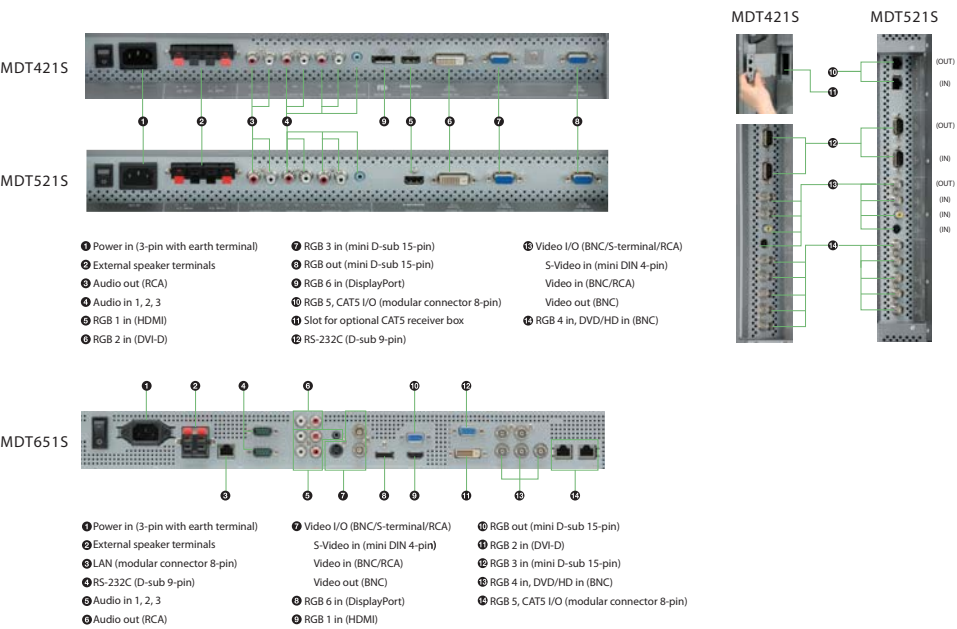


Model Name	Stereo Speakers					Stands					Coloured Bezels		CAT5 Kit
	SP-321V	SP-422V	SP-461V	SP-421S	SP-521S	ST-322V	ST-422V	ST-461V	ST-421S	ST-521S	OB-421S-AS	OB-521S-AS	
LDT322V	✓	—	—	—	—	✓	—	—	—	—	—	—	—
LDT422V	—	✓	—	—	—	—	✓	—	—	—	—	—	—
LDT461V2	—	—	✓	—	—	—	—	✓	—	—	—	—	—
MDT421S	—	—	—	✓	—	—	—	—	✓	—	—	—	—
MDT521S	—	—	—	—	✓	—	—	—	—	✓	—	—	—
MDT651S	—	—	—	—	✓	—	—	—	—	—	—	—	—

*CAT5 is standard equipment in the MDT521S/MDT651S.

Connector Terminals

MDT Connector Terminals



LDT Connector Terminals

