



**IMITSUBISHI
ELECTRIC**

LCD PUBLIC DISPLAY

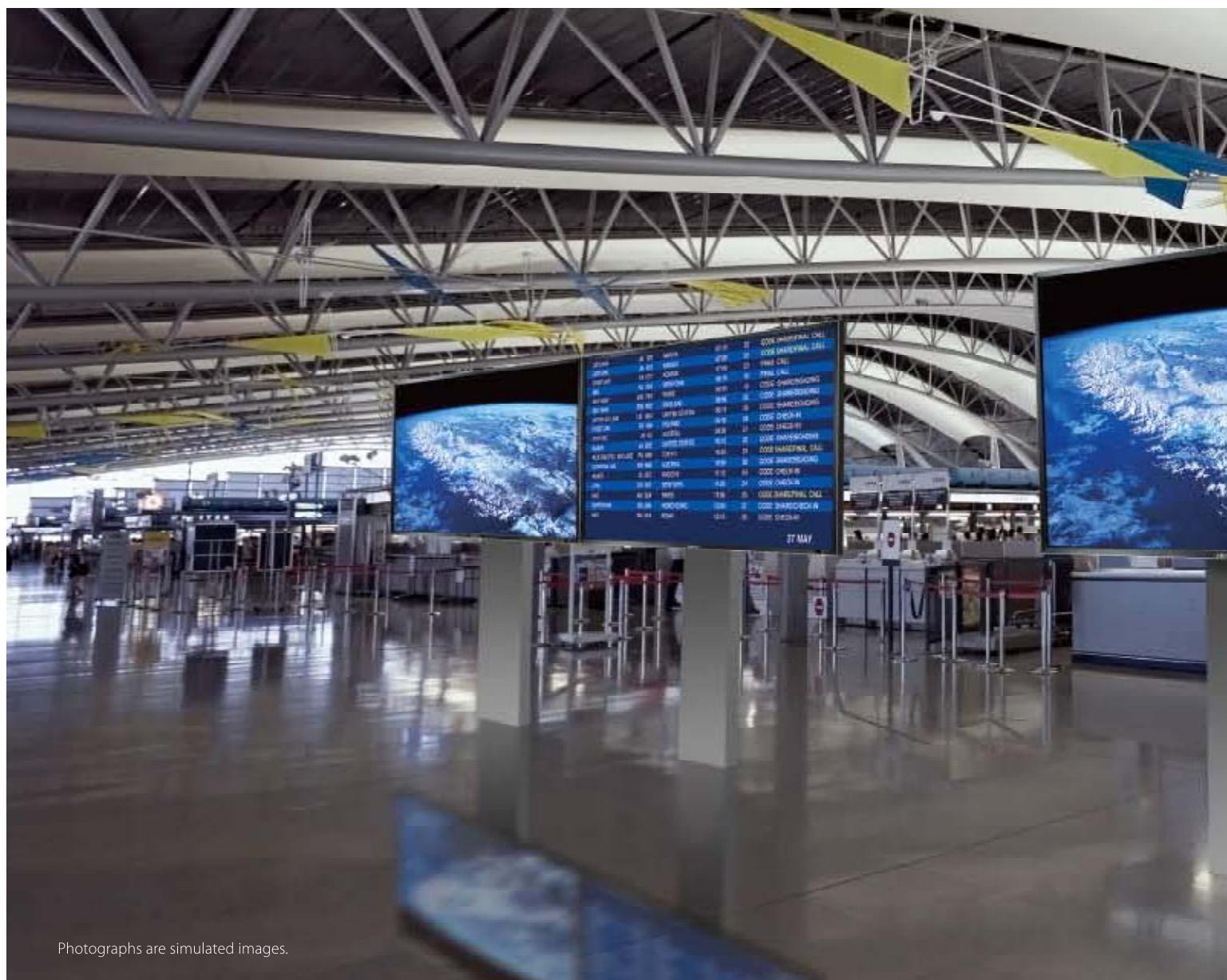
Changes for the Better

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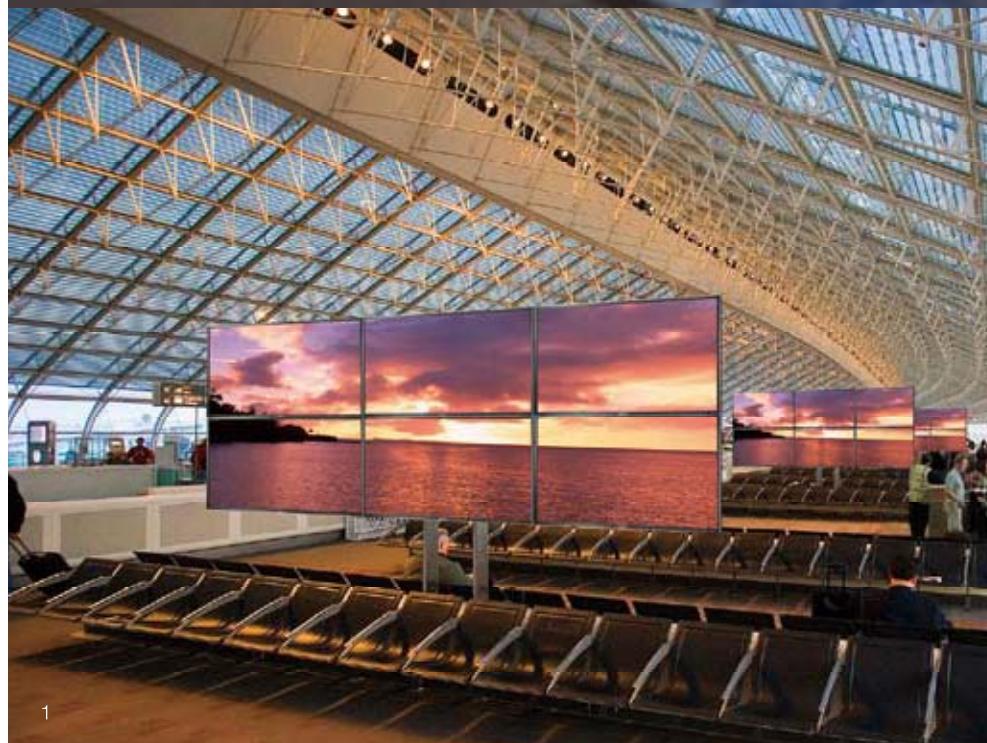
Slim Eye-catching Bezel Design
Advanced High-definition Digital Signage Display

MDT42IS / MDT52IS

Highly Aesthetic Innovative Design • Durable Full High-definition Large-format LCD engineered specifically for public display use



Photographs are simulated images.



Panel • Superior Functionality



Stylish slim aluminum bezel design complements any public space



Slim aluminum bezel with black hairline finish.



Innovative design with enhanced functionality.



Diamond-cut edges and finely finished grooves express premium quality and a slim, ergonomic appearance.



Silver bezel available as an option.

Latest LCD panel technologies achieve improved performance and extended use in public display and industrial applications

Full 1920 x 1080
High-definition Resolution



MDT series panels reproduce images from video and computer signals with precision and clarity, all delivered in full 1920 x 1080 high-definition resolution. A high-durability panel reduces the risk of image persistence in commercial applications.

700cd/m² High Brightness /
2000:1* High Contrast

Brightness and contrast functions designed to deliver truly impressive sharp, vivid images and information even in well-lit public spaces.

*MDT521S

Video and Serial Control over CAT5

Enables long video cable connections and serial control over a single CAT5 cable

Supports Long Cable Lengths—
Up to 150 metres

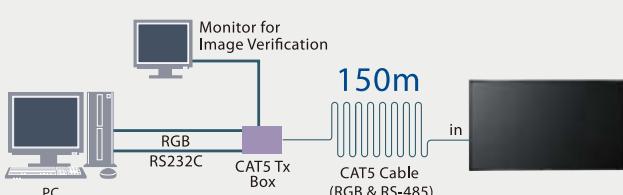
Long VGA cables can lead to a loss in image quality and higher installation costs. The MDT521S comes standard with a CAT5 transmitter and built-in CAT5 receiver that enable the connection of much longer cables without degrading the high picture quality. The MDT421S is equipped with a CAT5 receiver slot for the optional CAT5 receiver and transmitter kit.



*MDT421S: Slot for Optional CAT5 receiver

Video and Serial-control Signals over a Single CAT5 Cable

Utilizing the CAT5 transmitter box, video and RS-485 serial-control signals can be delivered over the same CAT5 cable, eliminating the need for a separate serial-control cable.



Link Up to 5 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

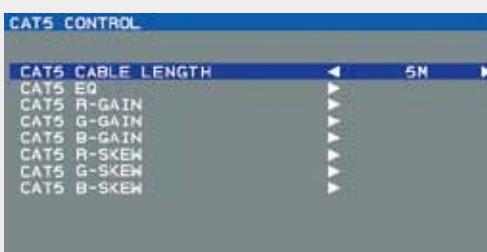
Connection	Max. cable length	Signal timing
One monitor	150m	1920x1080@60Hz
Multiple monitors	200m(*)	1920x1080@60Hz

* Total length of the connected cables.

* The connectable cable length 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) Equalizer Function
Optimises signal shape to minimize image blur on the screen.

3) R/G/B Gain Adjustment
Brightens dark images.

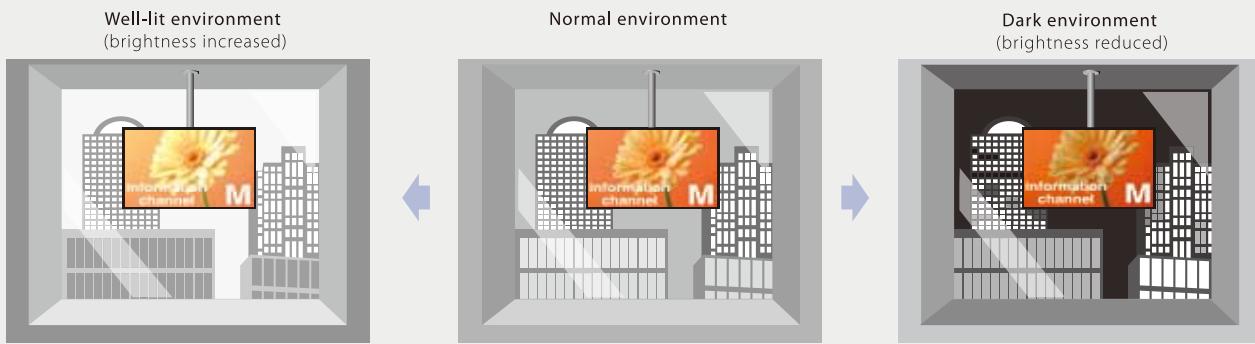
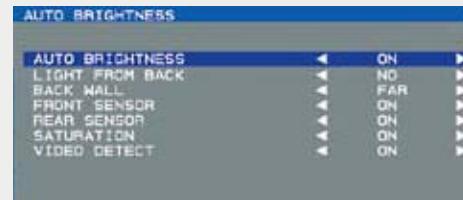
4) R/G/B Skew Compensation
Corrects colour deviation.

* CAT5 connectors can only be connected to the CAT5 transmitter box included with the MDT521S or available as an option with MDT421S. Do not attempt to connect any other network hardware. This may result in damage to the hardware connected, transmitter box and displays.

Latest image reproduction and information-processing technology in a conveniently thin eye-catching package

Automatic Brightness Control with Front/Rear Ambient Light Sensors – Unique innovation from Mitsubishi Electric

The MDT421S/521S are equipped with an Auto Brightness function that utilizes two ambient light sensors—one each in the front and rear—to gather data on lighting conditions for adjusting image brightness. Even when installed at venues where light conditions change continuously, optimum viewing is ensured together with the added benefit of greater energy savings through reduced power consumption in darker environments.



Structural Design Enables In-floor/Face-up* Installation - Applications expanded beyond landscape and portrait

*Only for MDT521S.

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 MDT521S, from landscape, portrait and angled to full-flat (face-up*) installations.

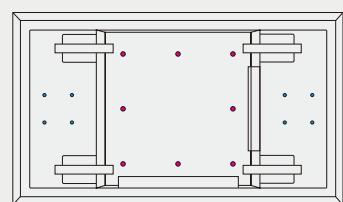
* Run internal cooling fan full-time when using monitor in face-up position. Face-down/upside-down installation not supported.



Standard VESA Mount Pattern and Left/Right Panel Holes for SBC

Standard VESA hole pattern (M8/400x400mm) for mounting to wall/ceiling. SBC/media player mounting holes (100x100mm) provided on both right and left sides for expanded installation possibilities and improved user convenience.

* MDT521S

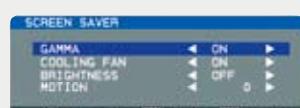


Programmable Scheduling Function

Up to seven different scheduled intervals by time, day of week and input port can be programmed. Content from different sources can be scheduled for specific displays within the same installation. This contributes to extending panel service life and increasing energy savings by turning off displays at times when not required.

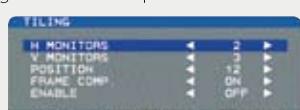


- Brightness mode: Reduces maximum display brightness.
- Motion mode: Slightly shifts images in four directions according to user-specified time intervals.

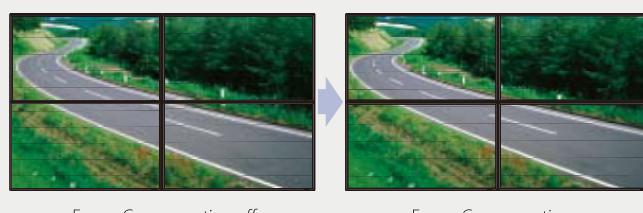


Tiling Capability with Frame Compensation

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)



Frame Compensation off

Frame Compensation on

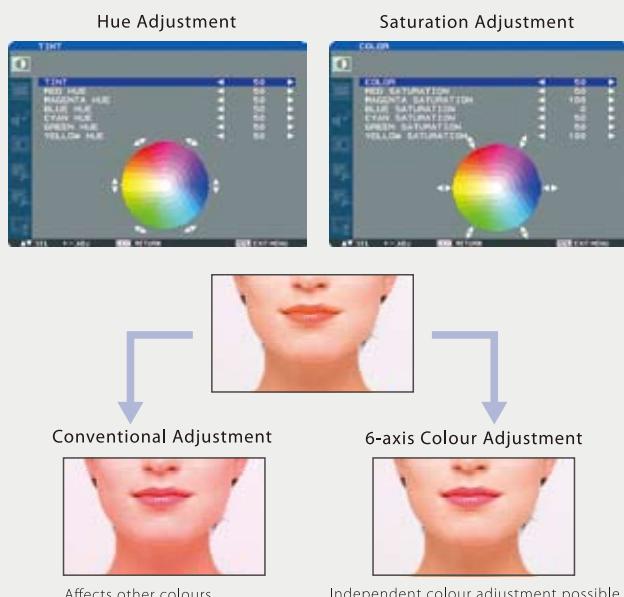
Wide-range Colour Temperature Adjustment

Adjust colour temperature across a wide range from 3,000~10,000K. 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.



6-axis Colour Adjustment Function

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 or brand logos in signage applications.



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

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

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



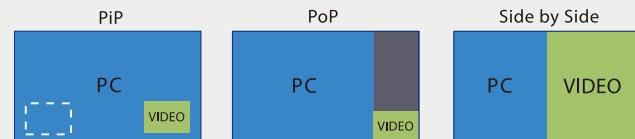
* This service is not available in all countries and regions. Please check availability with dealerships in your region.



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.

Side-by-side mode is incorporated as well, an ideal feature for broadcasting and video-conferencing applications.



Enhanced Connectivity with DisplayPort Terminal

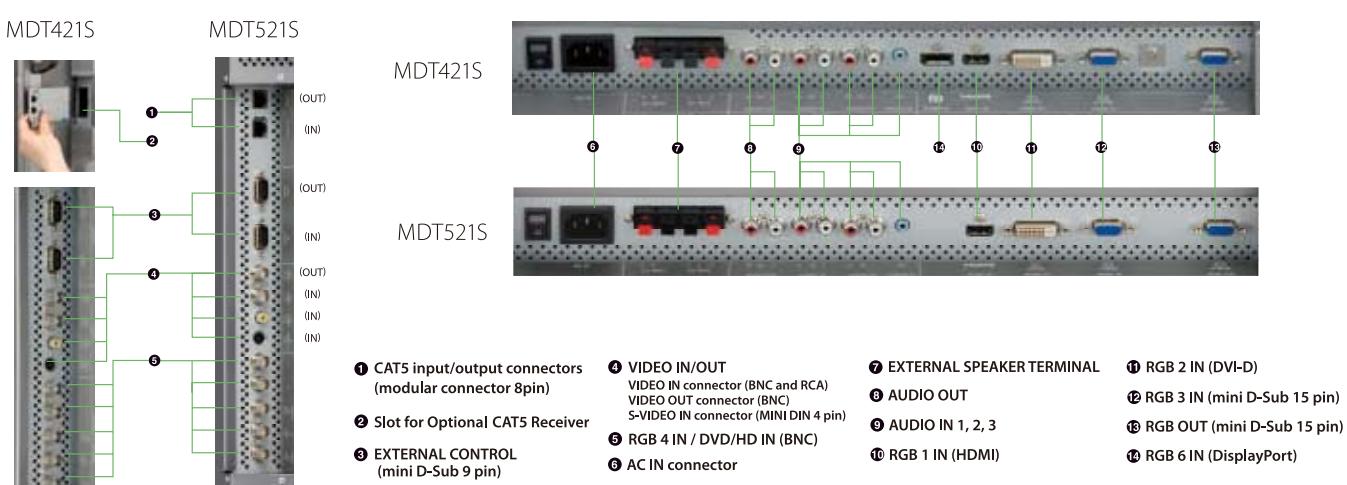


The MDT421S is also equipped with the DisplayPort terminal, a next-generation digital interface designed to enable maximum display performance and deliver video and other signals over a single cable up to 15 meters in length.



Multiple Standard Input and Output Connectors

In addition to the dedicated CAT5 connectors, the MDT421S/521S are equipped with a variety of industry-standard I/O connectors for computers, media players and other equipments. Compatibility for utilizing most common signal sources is ensured.



Specifications

MDT421S

MDT521S

Dimension		966	116	(Unit:mm)	1202	76	122	47	698	(Unit:mm)
Orientation		Landscape / Portrait			Landscape / Portrait / Face up					
LCD Module	Diagonal (inch)	42" (1067mm)			52" (1322mm)					
	Pixel Pitch	0.485mm			0.600mm					
	Resolutions	1920 x 1080dots (Full HD)			1920 x 1080dots (Full HD)					
	Colour	1.0 Billion			16.7 Million					
	Brightness (typ.)	700cd/m ²			700cd/m ²					
	Contrast ratio	1100 : 1			2000 : 1					
	Viewing Angle (CR>=10)	Up and Down 178°, Left and Right 178°			Up and Down 178°, Left and Right 178°					
	Response Time	9ms (Gray to Gray)			8ms (Gray to Gray)					
Viewable Size		930mm x 523mm / 36.6" x 20.6"			1152mm x 648mm / 45.4" x 25.5"					
Power Management		VESA DPM			VESA DPM					
Plug and Play		VESA DDC2B, DDC/CI			VESA DDC2B, DDC/CI					
Auto adjustment		Yes (Contrast / Position / Phase / Clock)			Yes (Contrast / Position / Phase / Clock)					
OSD user function		Brightness, Contrast, Auto Brightness, Zoom, PIP, Screen saver, Side border color, Gamma selection, Black level expansion, Heat status, Power on delay, Schedule, Tiling, etc.			Brightness, Contrast, Auto-Brightness, Zoom, PIP, Screen saver, Side border color, Gamma selection, Black level expansion, Heat status, Power on delay, Schedule, Tiling, CAT5 Control, etc.					
Input / Output signal	PC Input / Output	Input Connector (Analog)	Mini D-sub 15Pin , BNC (R, G, B, H, V) (PC/AV common)		Mini D-sub 15Pin , BNC (R, G, B, H, V) (PC/AV common)					
		(Digital)	HDMI (PC/AV common), DVI-D (PC/AV common), DisplayPort		HDMI (PC/AV common), DVI-D (PC/AV common)					
		Output Connector	Mini D-sub 15Pin		Mini D-sub 15Pin					
		CAT5-Input	(Option)Modular 8 pinx1 providing RGB differential video and RS-485 control support.		Modular 8 pinx1 providing RGB differential video and RS-485 control support.					
		CAT5-Output	(Option)Modular 8 pinx1 providing RGB differential video and RS-485 control support.		Modular 8 pinx1 providing RGB differential video and RS-485 control support.					
	AV Input / Output	Horizontal Frequency	15.625 / 15.734, 31.5 - 91.1kHz		15.625 / 15.734, 31.5 - 91.1kHz					
		Vertical Frequency	50.0 / 58.0 - 85.0Hz		50.0 / 58.0 - 85.0Hz					
		Video Signal	Analog: Analog RGB, Digital: TMDS (with HDCP)		Analog: Analog RGB, Digital: TMDS (with HDCP)					
		Sync Signal	Analog: Separate (TTL), Composite (0.3V) , Sync on Green, Digital: TMDS		Analog: Separate (TTL), Composite (0.3V) , Sync on Green, Digital: TMDS					
		Supported Resolution	640x480, 800x600, 1024x768, 1360x768, 1280x1024, 1600x1200 (Compressed/Simplified), 1920x1080, 1920x1200 (Compressed/Simplified)		640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 (Compressed/Simplified), 1920x1080, 1920x1200 (Compressed/Simplified)					
Power Supply	AV Input / Output	Input Connector (Analog)	Composite <BNC/RCA>, Separate (Y/C)<-TERMINAL>, Component (Y/Pb/Pr) <BNC> (PC/AV common)		Composite <BNC/RCA>, Separate (Y/C)<-TERMINAL>, Component (Y/Pb/Pr) <BNC> (PC/AV common)					
		(Digital)	HDMI (PC/AV common), DVI-D (PC/AV common)		HDMI (PC/AV common), DVI-D (PC/AV common)					
		Output Connector	Analog: Composite<BNC>		Analog: Composite<BNC>					
		Supported Resolution	Composite/Separate: NTSC, PAL, SECAM, 4.43NTSC, PAL60 Component/Digital:480i,480p,576i,576p,720p,1080i,1080p		Composite/Separate: NTSC, PAL, SECAM, 4.43NTSC, PAL60 Component/Digital:480i,480p,576i,576p,720p,1080i,1080p					
		AUDIO Input / Output	RCA pin-jack L/R x 2, Stereo mini Jack		RCA pin-jack L/R x 2, Stereo mini Jack					
	Speaker / Audio Output	Input Connector (Analog)	HDMI (digital audio)		HDMI (digital audio)					
		(Digital)	RCA pin-jack L/R		RCA pin-jack L/R					
		Output Connector	External Speaker jack, 7W + 7W (8 ohm)		External Speaker jack, 7W + 7W (8 ohm)					
		Speaker / Audio Output	RS-232C<Mini D-sub 9Pin>		RS-232C<Mini D-sub 9Pin>					
		Control Input / Output	RS-232C<Mini D-sub 9Pin>		RS-232C<Mini D-sub 9Pin>					
Operational Environment	Input Voltage	AC100 - 240V, 50/60Hz			AC100 - 240V, 50/60Hz					
	Power Consumption	232W (214W without speaker)			380W (360W without speaker)					
	Power Consumption at Power Saving	Less than 5W (with CAT5 (Option) input select)			Less than 5W (with CAT5 input select)					
Dimension (WxHxD)	Temperature	5 to 40°C / 41 to 104 °F (Landscape Mode), 5 to 35°C / 41 to 95°F (Portrait Mode)			5 to 40°C / 41 to 104 °F (Landscape Mode), 5 to 35°C / 41 to 95°F (Portrait Mode / Face up Mode)					
	Humidity	20 - 80% (without condensation)			20 - 80% (without condensation)					
Weight	Net with stand	—			—					
	Net without stand	966mm (W) x 559mm (H) x 116mm (D) / 38.0"(W) x 22.0"(H) x 4.6"(D)			1202mm (W) x 698mm (H) x 122mm (D) / 47.3"(W) x 27.5"(H) x 4.8"(D)					
	Gross	1130mm (W) x 709mm (H) x 280mm (D) / 44.5"(W) x 28.0"(H) x 11.0"(D)			1405mm (W) x 951mm (H) x 275mm (D) / 55.3"(W) x 37.4"(H) x 10.8"(D)					
Wall mounting interface	Net with stand	—			—					
	Net without stand	Approximately 24kg / 52lbs			Approximately 40kg / 88lbs					
	Gross	Approximately 31kg / 68lbs			Approximately 49kg/108lbs					
Complied regulatory and guidelines		UL60950-1/C-UL/CE Marking/BSMI/GOST-R/FCC-B/DOC-B/C-Tick/RoHS/US Mercury/CCC only for Chinese model			UL60950-1/C-UL/CE Marking/BSMI/GOST-R/FCC-B/DOC-B/C-Tick/RoHS/US Mercury/CCC only for Chinese model					
Accessories		Power Cord, VGA (Mini-Dsub15p) Cable, User's Manual, Wireless Remote Controller, Battery, Clamper, Screw for Clamper			Power Cord, VGA (Mini-Dsub15p) Cable, User's Manual, Wireless Remote Controller, Battery, Clamper, Screw for Clamper, CAT5 Tx Box, CD-ROM					

Optional Stereo Speakers



SP-421S/SP-521S

Optional Stand



ST-421S/ST-521S

Optional Silver Bezel



OB-421S-AS/OB-521S-AS

Optional Cat5 Kit
for MDT421S



Transmitter

Receiver

DP-1CA5

MITSUBISHI ELECTRIC CORPORATION

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