



**mitsubishi
electric**

LCD PUBLIC DISPLAY

Changes for the Better

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

MDT42IS / MDT52IS

Highly Aesthetic Innovative Design • Durable Full High-definition Panel • Superior Functionality
 Large-format LCDs engineered specifically for public display use



Photographs are simulated images.



Stylish slim aluminum bezel design compliments any public space



Slim aluminum bezel with black hairline finish.

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

Innovative design with enhanced functionality.

Silver bezel available as an option.

*MDT5215

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 1920x1080 high-definition resolution. A high-durability LCD 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.

*MDT5215

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

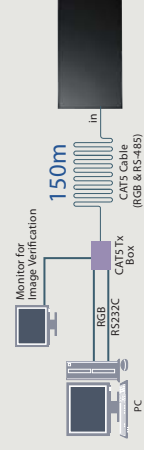
Long VGA cables can lead to a loss in image quality and higher installation costs. The MDT5215 comes standard with a CAT5 transmitter and built-in CAT5 receiver that enables the connection of much longer cables without degrading the high picture quality. The MDT4215 is equipped with a CAT5 receiver slot for the optional CAT5 receiver and transmitter kit.



*MDT4215: Slot for Optional CAT5 receiver

Video and Serial-control Signals over a Single CAT5 Cable

Utilising 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.



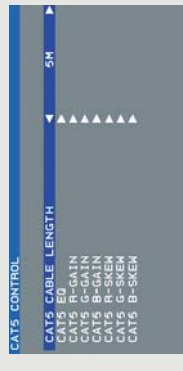
Allowable cable length

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.

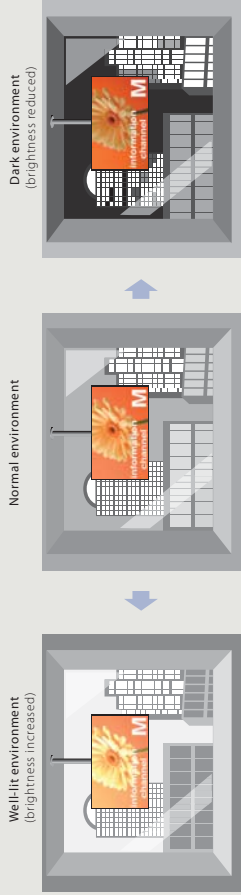
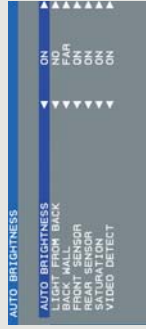


- Cable Length Selector**
Changes to optimised default settings for cable lengths.
- Equaliser Function**
Optimises signal shape to minimise image blur on the screen.
Brightens dark images.
- R/G/B Gain Adjustment**
Corrects colour deviation.
- R/G/B Skew Compensation**
CAT5 connectors can only be connected to the CAT5 transmitter box included with the MDT5215 or available as an option with MDT4215. 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 technologies in a conveniently thin eye-catching package

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

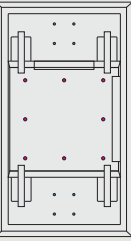
The MDT4215/5215 are equipped with an Auto Brightness function that utilises two ambient light sensors—one each in the front and rear—to gather data on lighting conditions for adjusting image brightness. Even when installed at venues where light conditions change continuously optimum viewing is ensured 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

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 MDT5215, from landscape, portrait and angled to full-flat (face-up)* installations.

* Full internal cooling fan (full time when using monitor in face-up position, face-down/upside-down installation not supported).



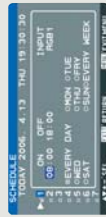
Standard VESA Mount Pattern and Left/Right Panel Holes for SBC

Standard VESA hole pattern (188/400x400mm) 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.

* MDT5215

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 increased energy savings by turning off displays at times when not required.



Multi-level Screen Saver Function

To reduce image persistence and maximise panel service life in demanding signage applications, the MDT4215/5215 are equipped with four levels of screen saver 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 being automatically activated when internal temperature reaches a pre-designated limit.

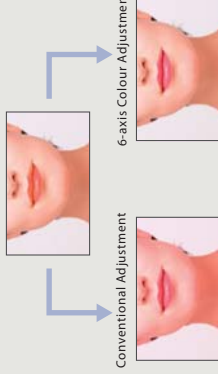
Wide-range Colour Temperature Adjustment

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 control 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 and brand logos in signage applications.

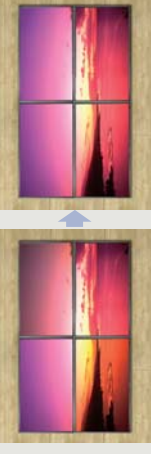


Affects other colours. The ability to adjust colour independently depends on the contents.

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

Qualified service personnel utilise 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 a computer input source or vice versa.

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



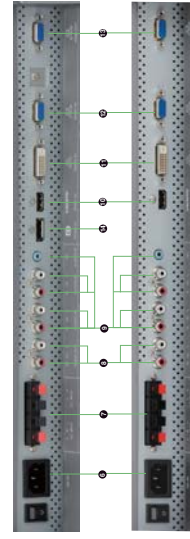
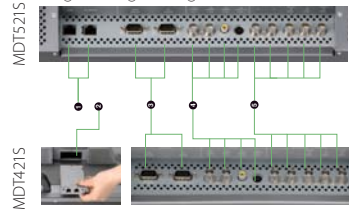
Enhanced Connectivity with DisplayPort Terminal

The MDT4215 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 MDT4215/5215 are equipped with a variety of industry-standard I/O connectors for computers, media players and other devices. Compatibility with most common signal sources is ensured.



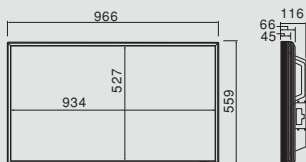
- CAT5 input/output connectors (In/Out connector 9 pin)
- VIDEO IN/OUT (In/Out connector 9 pin)
- VIDEO IN connector (BNC and RCA)
- VIDEO OUT connector (BNC)
- S-VIDEO IN connector (Mini DIN 4 pin)
- RGB IN / DVI-D / HD (BNC)
- EXTERNAL CONTROL (mini D-Sub 9 pin)
- EXTERNAL SPEAKER TERMINAL
- AUDIO OUT
- AUDIO IN 1, 2, 3
- RGB 1 IN (HDMI)
- RGB 2 IN (DVI-D)
- RGB 3 IN (mini D-Sub 15 pin)
- RGB OUT (mini D-Sub 15 pin)
- RGB 6 IN (DisplayPort)
- AC IN connector

Specifications

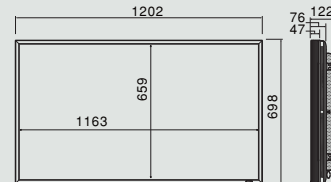
MDT421S

MDT521S

Dimension



(Unit:mm)



(Unit:mm)

Orientation		Landscape / Portrait	Landscape / Portrait / Face up
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.
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)
	Input Connector (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 pin x1 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 pin x1 providing RGB differential video and RS-485 control support.
	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, 1280x1024, 1600x1200 (Compressed/Simplified), 1920x1080, 1920x1200 (Compressed/Simplified)
Input / Output signal	Input Connector (Analog)	Composite <BNC/RCA>, Separate (Y/C)<S-TERMINAL>, Component (Y/Pb/Pr) <BNC> (PC/AV common)	Composite <BNC/RCA>, Separate (Y/C)<S-TERMINAL>, Component (Y/Pb/Pr) <BNC> (PC/AV common)
	Input Connector (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>
AV Input / Output	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
	Input Connector (Analog)	RCA pin-jack L/R x 2, Stereo mini jack	RCA pin-jack L/R x 2, Stereo mini jack
	Input Connector (Digital)	HDMI (digital audio)	HDMI (digital audio)
AUDIO Input / Output	Output Connector	RCA pin-jack L/R	RCA pin-jack L/R
	Speaker / Audio Output	External Speaker jack, 7W + 7W (8 ohm)	External Speaker jack, 7W + 7W (8 ohm)
	Control Input / Output	Input Connector: RS-232C<Mini D-sub 9Pin> Output Connector: RS-232C<Mini D-sub 9Pin>	Input Connector: RS-232C<Mini D-sub 9Pin> Output Connector: RS-232C<Mini D-sub 9Pin>
Power Supply	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 3W (with other input select) Mechanical Power SW Off: 0W	Less than 5W (with CAT5 input select) Less than 3W (with other input select) Mechanical Power SW Off: 0W
Operational Environment	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)
Dimension (WxHxD)	Net with 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)
	Net without stand	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)
	Gross		
Weight	Net with stand		
	Net without stand	Approximately 24kg / 52lbs	Approximately 40kg / 88lbs
Wall mounting interface		12 Holes (100mm/3.94" pitches) for Monitor mount	8 Holes (200mm/7.87" pitches) for Monitor mount 4 Holes x 2sets (100mm/3.94" pitches) for SBC/Signage player mount on monitor
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



Optional Silver Bezel



Optional Cat5 Kit

for MDT421S



Transmitter Receiver

DP-1CA5

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