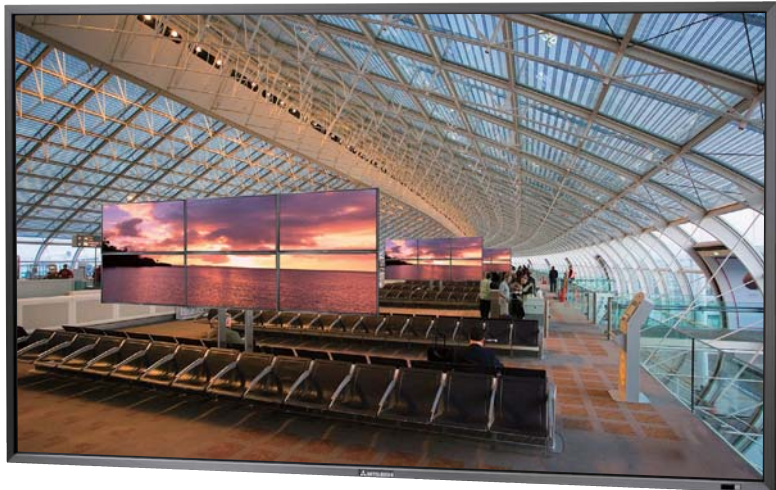# MITSUBISHI ELECTRIC

LCD PUBLIC DISPLAY

Stylish Large-screen Panels with Advanced Features

A highly functional commercial-use display featuring a high-brightness, thin-bezel design and compliance with Open Pluggable Specification (OPS) standards to support future system expansion.

Frame rate 120Hz

55"LCD Display
MDT 551S

Resolution	**1920x1080** (Full HD)
Colours	**1.06 billion**
Brightness	**700cd/m²**
Contrast Ratio	**1300:1**
Viewing Angle	**Up/Down 178°** **Left/Right 178°**
Response Time	**10ms** (Grey to Grey)

Options
Stand: **ST-461V**
Speakers: **SP-551S**
CAT5 Transmitter
Box: **DP-2CA5-T**
CAT5 Receiver Box:
DP-2CA5-R
SDI Box:
DP-1SDI-3G

Full HD 1080p   HDMI HIGH DEFINITION MULTIMEDIA INTERFACE   DP™   ENERGY STAR   Compatible with Windows®7

● High Brightness of 700cd/m²

A high-brightness panel specifically designed for public space applications, ensuring crystal-clear images even in well-lit environments.

● Stylish Aluminium Bezel

The ultra-thin 17.5mm bezel provides a stylish look and draws maximum attention to the screen, especially for content viewed on multiple screens.

● OPS-compatible Slot

Support for CAT5 (as with previous models) and the added feature of Open Pluggable Specification compatibility. This allows the installation of expansion cards (e.g. a personal computer card*), opening up a wider scope of applications the display can be used for.

*The MDT551S is compatible with Advantech Co. Ltd's ARK-DS220F-MTSA1E. For details, please contact a local Advantech dealership.
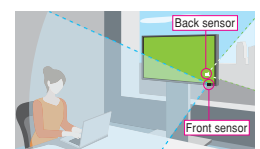
● SDI Card

An SDI card is available as an option, allowing compatibility with standard signal formats (3G-SDI, HD-SDI, SD-SDI) used in the broadcast industry and the daisy-chain connection of up to 25 units with a maximum cable length of 350m* (for SD-SDI).

* Possible transmission distance varies depending on installation conditions and the cable used.

● Auto Brightness

Two external light sensors are embedded in the display (i.e., one each in the front and back) for detecting brightness in front of the display as well as light from the rear of the unit.

This not only allows automatic brightness control according to the environment, but also contributes towards reduced power consumption and cost-savings.

Back sensor
Front sensor

● Other Features

Face-up Installation The ability to install displays face-up further increases commercial-use applications.
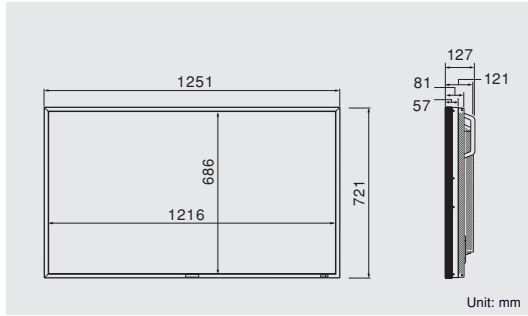
120Hz Compatible This feature provides smooth playback of fast-moving images.

Built-in Speakers (10W+10W) Each panel has two built-in 10W speakers, eliminating the time, effort and cost required to connect external speakers.
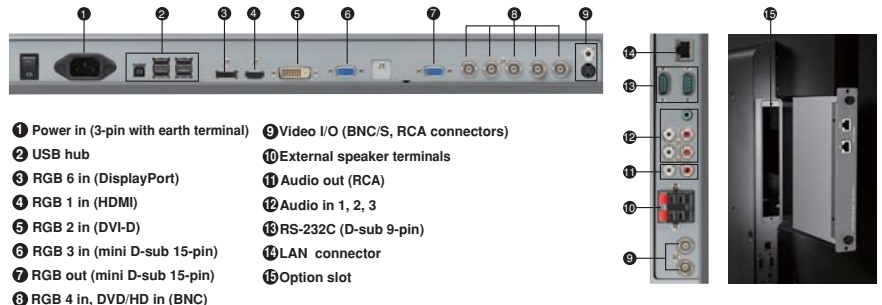
Dimensions

1251
686
1216
721
127
81
121
57

Unit: mm

Connector Terminals

❶ Power in (3-pin with earth terminal)
❷ USB hub
❸ RGB 6 in (DisplayPort)
❹ RGB 1 in (HDMI)
❺ RGB 2 in (DVI-D)
❻ RGB 3 in (mini D-sub 15-pin)
❼ RGB out (mini D-sub 15-pin)
❽ RGB 4 in, DVD/HD in (BNC)
❾ Video I/O (BNC/S, RCA connectors)
❿ External speaker terminals
⓫ Audio out (RCA)
⓬ Audio in 1, 2, 3
⓭ RS-232C (D-sub 9-pin)
⓮ LAN connector
⓯ Option slot

Specifications

Orientation		Landscape/Portrait/Face-up
LCD module	Screen size (diagonal)	54.6" (1388mm)
	Panel type	IPS
	Pixel pitch	0.630mm
	Resolution	1920 × 1080 (Full HD)
	Colour	Approx. 1.06 billion
	Brightness	Max.: 700cd/m^2
	Contrast ratio	1300:1
	Viewing angle (CR≧10)	Up/Down 178°, Left/Right 178°
	Response time	10ms (Grey to Grey)
Viewing area		1209 x 680mm
Power management		VESA DPM
Plug-n-Play		VESA DDC2B, DDC/CI
Auto adjustment		Contrast, Position, Phase, Clock
OSD user functions		Brightness, contrast, black level, zoom, PiP, screensaver, side border colour, Gamma selection, black level expansion, heat status, power-on delay, schedule, tiling, CAT5 control, LAN control, closed caption, programmable LUT, etc.
Input/Output signal	PC input/output — Input connector (Analog)	Mini D-sub 15-pin, BNC (R, G, B, H, V) (PC/AV common)
	Input connector (Digital)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common), DisplayPort
	Output connector	Mini D-sub 15-pin
	CAT5 input (option)	Modular 8-pin×1 providing RGB differential video and RS-485 control support
	CAT5 output (option)	Modular 8-pin×1 providing RGB differential video and RS-485 control support
	Horizontal frequency	15.625/15.734, 31.5-91.1kHz
	Vertical frequency	50, 58-85Hz
	Video signal	Analog: RGB, Digital: RGB
	Sync signal	Analog: separate (TTL), composite (TTL), Sync-on-Green, Digital: TMDS
	Resolutions supported	640 × 480, 800 × 600, 1024 × 768, 1280 × 768, 1360 × 768, 1280 × 1024, 1600 × 1200, 1920 × 1080, 1920 × 1200 (1600 × 1200, 1920 × 1200 simplified compression)
	AV input/output — Input connector (Analog)	Composite video <BNC>, S-terminal, BNC (Y/Pb/Pr;PC/AV common)
	Input connector (Digital)	HDMI (PC/AV common), DVI-D (with HDCP, PC/AV common)
	Output connector	Analog: composite video <BNC>
	Resolutions supported	Composite signal/S-terminal: NTSC, PAL, SECAM, 4.43 NTSC, PAL60 Component signal: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	Audio input/output — Input connector (Analog)	RCA pin jacks × 2 (L/R), stereo mini jack
	Input connector (Digital)	HDMI x 1
	Output connector	RCA pin jacks (L/R)
	Speaker/Audio output	External speaker jacks (7W + 7W) and internal speakers (10W + 10W)
	Control input/output — Input connector	RS-232C <D-sub 9-pin>, LAN <modular 8-pin>
	Output connector	RS-232C <D-sub 9-pin>
USB hub		Self-powered hub: 2 upstream (OPS slot, external connection)/4 downstream/USB2.0 compliant
Option slot (OPS slot)		Both digital (OPS) and analog (CAT5) supported
Power supply	Voltage, Current	100-240VAC, 50/60Hz
	Consumption	Max.: 316W (293W w/o speakers) Factory default setting: 202W
	Consumption in economy mode	Less than 5W with CAT5 input selected Less than 1W with other input selected 0W with power switch off
Dimensions (W × H × D)	Net	1251 × 721 × 127mm
	Overall	1474 × 938 × 346mm
Weight	Net	Approx. 37.0kg
	Gross	Approx. 47.5kg
Wall mounting interface		8 holes, M8 screws (200mm (7.9") pitch) for monitor, 4 holes x 2 sets, M4 screws (100mm (4.0") pitch) for SBC , Signage player mounted on monitor
Regulation/Guideline compliance		UL60950-1/C-UL/CE Marking/BSMI/GOST-R/FCC-A /DOC-A/C-Tick/ RoHS/US Mercury/Energy Star/CCC only for Chinese model
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 (for power cord and HDMI cable), etc.

* Values shown in the Specifications chart are typical values; actual values may vary depending on individual unit differences.
* The display size shown on the cover page of this flyer is rounded off to a whole number. The actual size is listed in the Specifications chart.

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