



Leading the Evolution of
High-definition Digital Signage

A Broad Line-up Engineered to Deliver the Ultimate in Visual Expression for Digital Signage and Commercial Applications

Mitsubishi Electric LDT Series LCDs



Photographs are simulated images.

Mitsubishi Electric's LDT Series LCDs are designed specifically for public information displays & digital signage applications. They are available in screen sizes from 32" – 65", with a host of functions, advantages and benefits which can ultimately provide substantial cost savings over a project's life cycle. Benefits are realized in the phases of system design, deployment and installation, operations and monitoring and long-term maintenance and reliability.

Powerful features and functionality complimented by stunning image quality

High Reliability - Engineered Specifically for Industrial/Commercial Public Display Applications

Specifically engineered for public information displays and digital signage applications. Mitsubishi Electric LDT Series LCDs employ long-life components and specially selected panel specifications for commercial usage.

High-definition Panels

Our 46", 52" and 65" models feature 1920x1080 full high-definition resolution, and the 32" and 42" models feature 1366 x 768 WXGA resolution. All models ensure the reproduction of sharp, high-quality images from video and computer signal sources.

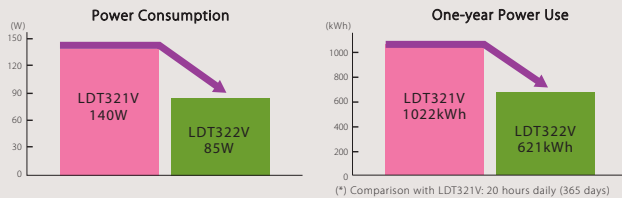
* For LDT461V2/521V/651L/P.



Energy-saving Panel

The 32" model consumes less electricity, and is equipped with energy-efficient functions and other advanced technologies that reduce power consumption and contribute to the global environment.

Power Consumption Comparison (Without Speakers)



Industrial Form Factor with Black, 4-sided Symmetrical Bezel Design

Ensures that as units are added or replaced in a given location over time, the appearance will remain uniform and unobtrusive. Also, the appearance when mounted in portrait position remains symmetrical. All control keys such as power, input selection and picture controls are neatly concealed under the monitor, so as not to be visible from the front.



Flexible Landscape & Portrait Positioning

Engineered for heat dissipation and long-term reliability in both landscape (horizontal) and portrait (vertical) positions.

*65" in separate versions.



Multiple Commercial Input & Output Interfaces/Connectors

Reduced installation cost, connection and input flexibility with future-proofing are assured for a wide variety of signal types. These include: multiple PC Inputs with D-Sub 15, DVI-D or HDMI, and 5BNC and an output for looping several monitors. For standard video, BNC video inputs with composite, component and Y/C connections as well as an output for looping several monitors are provided. Audio connectors are also included, as are speaker terminals for the direct connection of external speakers.



42" LDT421V2 input panels



Flexible Input Signal Support

- Support for a wide variety of PC signals including VGA, SVGA, XGA, WXGA, SXGA, UXGA, and WUXGA for models 46" and larger.
- Support for a wide variety of video signals including NTSC, PAL, SECAM, 480p, 720p, 1080i, and 1080p for models 46" and larger.
- Support for audio with both PC and video signals.

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 & black levels with a single touch via the IR remote control.

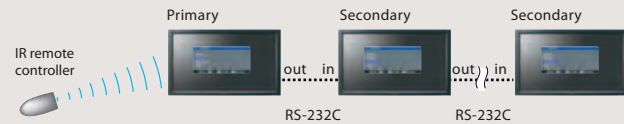
* Only for LDT322V/421V2/461V2

Remote Management & Diagnostics via Bi-lateral RS232 Communications

Users can create their own user interface installed on a controlling PC to remotely control or adjust monitors. Models 42" and larger can also be daisy-chained to save on cabling costs as illustrated below. Daisy-chained monitors can be controlled or adjusted all at once. Using a unique ID number, each monitor (up to 26 in a daisy-chain) can also be controlled individually.

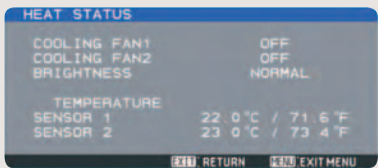


For 42" and 46" models, daisy-chain capability also allows control of all daisy-chained monitors simultaneously with the IR remote from a single master monitor location, saving time onsite.



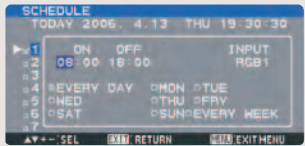
In addition, critical monitor health status such as input signal, cooling fan* and internal temperature can also be verified remotely. (The cooling fan will start automatically when the internal temperature rises beyond a certain limit.) Remote asset management is also available to verify model and serial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

*Only for LDT322V/421V2/461V2.



Programmable Scheduling Function

The monitor's operating schedule can be programmed for up to seven different scheduled time intervals by time, day of week and input port. This allows content from a different input to be scheduled on certain monitors within the same installation, and also extend the monitor's life and saves power by turned it off during those hours or days they are not required.



Power-save Function for PC and Video Signals

The monitor 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 monitor when not in use, such as during the time a location is closed.

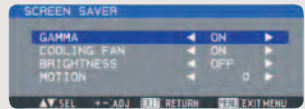


*LDT521V/651L/P: For PC signal only.

Multiple Screen-saver Functions

To reduce image persistence and maximize panel life in demanding signage applications, the LDT Series is equipped with four different levels of screen-saver functions, each of which can be set to meet the requirements of each application.

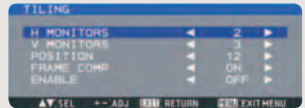
- An optimized gamma curve mode.
- Setting of the cooling fans to run continuously rather than automatically when the internal temperature reaches a specific level.
- A reduced brightness mode to limit the maximum brightness.
- A motion mode that shifts the image in four directions slightly at user selectable time intervals.



*LDT521V/651L/P: Only motion mode available.

Tiling Capability with Frame Compensation

This allows for high impact signage with the ability to combine up to 25 monitors* (up to 5 high x 5 wide) to create a single large image (i.e. video wall) with compensation for the width of the monitor bezels in order to accurately display the content as a single image.



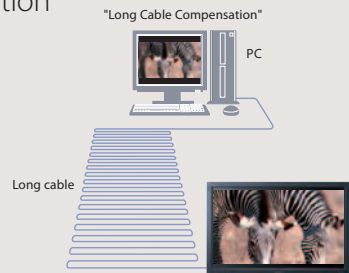
*LDT322V/421V2 max 16 screens (4 x 4)

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



Long Cable Compensation

Long sections of RGB signal cable may cause loss in image quality. For this reason, the LDT461V includes a long cable compensation feature which can be turned on during installation and is adjustable for various signal cable lengths.



*Applicable only for analog RGB (D-SUB/BNC).

*Compensation level depends on the quality of signal source and cable.

Wide-range Colour Temperature Adjustment

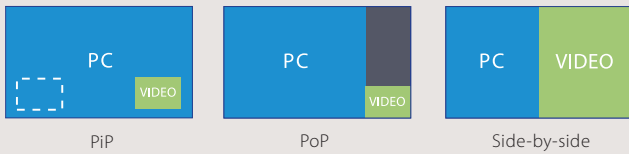
This allows for display colour temperatures to be adjusted from 3,000K up to 10,000K. This wide range is especially important for industries such as broadcast, retail food and others where colour accuracy and flesh tones are critical.

* Not available for LDT322V.



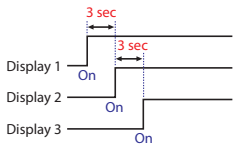
PiP & PoP

Picture-in-Picture and Picture-out-of-Picture are available to display content in a window from a video input source when the main image is from a PC input source and vice versa. Models 46" and larger, with their higher 1920 x 1080 native resolution, can also display these two input sources in a Side-by-side mode, ideal for broadcast and video-conferencing applications.



Power-on Delay

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



Side Border Colour Select

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



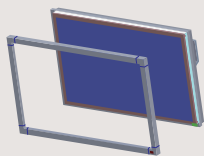
* Only for LDT322V/421V2/461V2.

IR Remote Lock

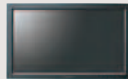

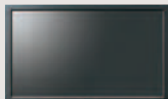
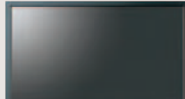
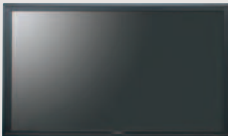

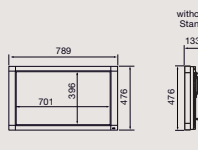
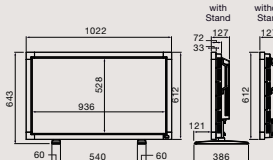
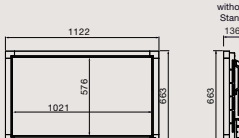
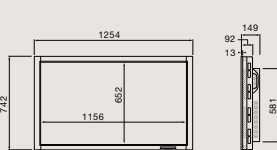
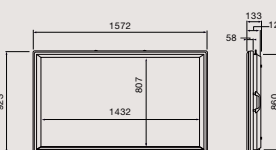
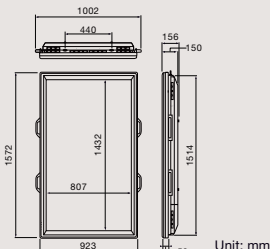
The remote control receiver can be turned off so that no changes can be made to the display settings or selected inputs by unauthorized personnel.

Removable Bezel

The popular 42" and 46" models have an easily removable front bezel design so that customers can change the colour of the bezel. (A silver bezel is available as an option.)

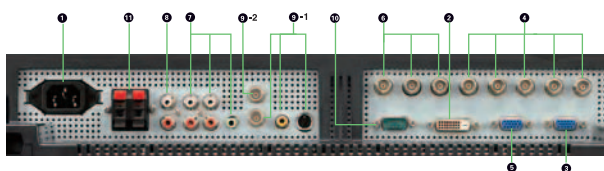


Full Line-up of Mitsubishi Electric LDT Series LCDs

Resolution			WXGA		Full HD				
Size			32	42	46	52	65	65	
Model									
			LDT322V	LDT421V2	LDT461V2	LDT521V	LDT651L	LDT651P	
Dimension									
			Unit: mm	Unit: mm	Unit: mm	Unit: mm	Unit: mm	Unit: mm	
Specifications									
LCD module			Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape	Portrait	
			31.51" (800mm)	42.02" (1067mm)	45.99" (1168mm)	52.04" (1322mm)	64.53" (1639mm)	64.53" (1639mm)	
			0.511mm	0.681mm	0.530mm	0.600mm	0.744mm	0.744mm	
			1366 x 768 (WXGA)	1366 x 768 (WXGA)	1920 x 1080 (FHD)	1920 x 1080 (FHD)	1920 x 1080 (FHD)	1080 x 1920 (FHD)	
			16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million	16.7 Million	
			450cd/m²	500cd/m²	450cd/m²	450cd/m²	420cd/m²	450cd/m²	
			2500 : 1	Max 1600 : 1 with CRO*	4000 : 1	1800 : 1	2000 : 1	2000 : 1	
Viewable size			Up and Down 178°, Left and Right 178°	Up and Down 178°, Left and Right 178°	Up and Down 178°, Left and Right 178°	Up and Down 176°, Left and Right 176°	Up and Down 176°, Left and Right 176°	Up and Down 176°, Left and Right 176°	
Power management			6.5ms (Gray to Gray)	9ms (Gray to Gray)	8ms (Gray to Gray)	6ms (Gray to Gray)	6ms (Gray to Gray)	6ms (Gray to Gray)	
Plug and play			698mm x 392mm / 27.5" x 15.4"	930mm x 523mm / 36.6" x 20.6"	1018mm x 573mm / 40.1" x 22.5"	1152mm x 648mm / 45.4" x 25.5"	1428mm x 804mm / 56.2" x 31.7"	804mm x 1428mm / 31.7" x 56.2"	
Auto adjustment				VESA DPM			VESA DPM / DVI DMPM		
OSD user function			Brightness, Contrast, Black level, Zoom, PIP, Screen saver, Side border colour, Gamma selection, Black level expansion,	Heat status, Power-on delay, Schedule, Tiling, etc.			Brightness, Contrast, Black level, PIP, Screen motion, Power-on delay, Schedule, Enlarge, etc.		
Input / Output signal	PC Input / Output	Input connector (Analog)	DVI-D (PC/AV common)		HDMI (PC/AV common) x2		DVI-D (PC/AV common), HDMI (PC/AV common)		DVI-D (PC/AV common)
		Output connector	Mini D-sub 15 pin		Mini D-sub 15 pin		DVI-D (PC/AV common)		DVI-D (PC/AV common)
		Horizontal frequency	31.5 - 91.1kHz		15.625 / 15.734, 31.5 - 91.1kHz		Analog: 31.0 - 81.1kHz, Digital: 31.0 - 80.0kHz		Analog: 31.0 - 81.1kHz, Digital: 31.0 - 80.0kHz
		Vertical frequency	50.0 / 58.0 - 85.0Hz		50.0 / 58.0 - 85.0Hz		Analog: 56 - 76.2Hz, Digital: 60 - 75Hz		Analog: 56 - 76.2Hz, Digital: 60 - 75Hz
		Video signal	Analog: Analog RGB, Digital: TMDS (with HDCP)		Analog: Analog RGB, Digital: TMDS (with HDCP)		Analog: Analog RGB, Digital: TMDS (with HDCP)		Analog: Analog RGB, Digital: TMDS (with HDCP)
		Sync signal	Separate (TTL)		Separate (TTL), Sync on Green		Separate (TTL), Composite (0.3V), Sync on Green		Separate (TTL), Composite (TTL), Sync on Green
	AV Input / Output	Supported resolution	640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 (Compressed/Simplified)		640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 (Compressed/Simplified), 1920x1080, 1920x1200 (Compressed/Simplified)		640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 (Compressed/Simplified), 1920x1080, 1920x1200 (Compressed/Simplified)		640x480, 800x600, 1024x768, 1280x768, 1360x768, 1280x1024, 1600x1200 (Compressed/Simplified), 1920x1080, 1920x1200 (Compressed/Simplified)
		Input connector (Analog)	Composite <BNC/RCA>, Separate (Y/C) <S-TERMINAL>, Component (Y/Pb/Pr) <BNC>		Composite <BNC>		Composite <BNC>, Separate (Y/C) <S-TERMINAL>, Component (Y/Pb/Pr) <BNC>		Composite <BNC>, Separate (Y/C) <S-TERMINAL>, Component (Y/Pb/Pr) <BNC>
		Output connector	DVI-D (PC/AV common)		HDMI (PC/AV common) x 2		HDMI (PC/AV common) x 2		HDMI (PC/AV common) x 2
	AUDIO Input / Output	Supported resolution	Composite/Separate: NTSC, PAL, SECAM, 4.43NTSC, PAL60		Component/Digital: 480i, 480p, 720p, 1080i, 1080p (LDT461V2)		Component/Digital: 480i, 480p, 720p, 1080i, 1080p		Component/Digital: 480i, 480p, 720p, 1080i, 1080p
		Input connector (Analog)	RCA pin-jack L/R x 2, Stereo mini jack		HDMI (HD: digital audio)		HDMI (HD: digital audio) x 2		HDMI (HD: digital audio) x 2
Speaker / Audio Output			External speaker jack, 7W + 7W (8 ohm)	External speaker jack, 7W + 7W (8 ohm)		External speaker jack, 7W + 7W (8 ohm)		External speaker jack, 7W + 7W (8 ohm)	
Control Input / Output			Input connector	RS-232C <Mini D-sub 9 pin>		RS-232C <Mini D-sub 9 pin>		RS-232C <Mini D-sub 9 pin>	
Power Supply			Output connector	RS-232C <Mini D-sub 9 pin>		RS-232C <Mini D-sub 9 pin>		RS-232C <Mini D-sub 9 pin>	
Operational Environment			Input voltage	103W (85W without speaker)		275W		560W	
			Power consumption	230W (210W without speaker)		Active Off < 12W		Active Off < 10W	
Dimension (WxHxD)			Power consumption at power saving	Active Off < 5W (Mechanical Power SW Off : 0W)		Active Off < 14W		Active Off < 10W	
			Temperature	5 to 40°C / 41 to 104°F (Landscape Mode), 5 to 35°C / 41 to 95°F (Portrait Mode)		0 to 40°C / 32 to 104°F			
			Humidity	20 - 80% (without condensation)		20 - 80% (without condensation)			
Weight			Net with stand	1022mmx643mmx386mm / 40.2"x25.3"x15.2"		1254mmx742mmx149mm / 49.4"x29.2"x5.9"		923mmx1572mmx150mm / 36.3"x61.9"x5.9"	
			Net without stand	1022mmx612mmx127mm / 40.2"x24.1"x5.0"		1572mmx923mmx126mm / 61.9"x36.3"x5.0"		1720mmx1190mmx575mm / 67.7"x46.9"x22.6"	
			Gross	1180mmx759mmx290mm / 46.5"x29.8"x11.4"		1390mmx880mmx385mm / 54.7"x34.6"x15.2"		1170mmx1740mmx575mm / 46.1"x68.6"x22.6"	
Wall mounting interface			Net with stand	Approximately 27.4kg / 60.3lbs		Approximately 39kg / 86lbs		Approximately 62kg / 137lbs	
			Net without stand	Approximately 26.0kg / 57.2lbs		Approximately 47kg / 104lbs		Approximately 90kg / 198lbs	
			Gross	Approximately 33.5kg / 73.7lbs		Approximately 35.0kg / 77.0lbs		Approximately 91kg / 201lbs	
Complied regulatory and guidelines			12 holes (100mm / 3.9" pitches M6 screw)		4 holes (440 x 650 mm, M10 screw)		4 holes (440 x 650 mm, M10 screw)		
Accessories			UL60950-1/C-UL/CE Marking/TUV-GS/BSMI/GOST-R/FCC-B/DOGB/C-Tick/RoHS/US Mercury/CCC only for Chinese model		UL60950-1/C-UL/CE Marking/TUV-GS/BSMI/GOST-R/FCC-A/DOCA/C-Tick/RoHS/US Mercury/CCC only for Chinese model		UL60950-1/C-UL/CE Marking/GOST-R/FCC-A/DOGA/C-Tick/RoHS/US Mercury		
Functions & Features									
Colour temperature			5000K/6500K/9300K/User		2600-10000K (100k step)		2600-10000K (100k step)		
Digital zoom			✓ (Custom zoom)		✓ (Custom zoom)		✓ (Custom zoom)		
Tiling and frame comp			Max. 4 x 4		Max. 4 x 4		Max. 5 x 5		
PIP/PoP			PIP, PoP		PIP, PoP		PIP, PoP, Side-by-side		
Scheduling			✓		✓		✓		
Screen saver (Motion)			✓		✓		✓		
Side border colour			OFF (Black)/50% (Gray)/100% (White)		OFF (Black)/50% (Gray)/100% (White)		OFF (Black)/50% (Gray)/100% (White)		
Power-on delay			✓		✓		✓		
Long cable compensation			✓		✓		✓		
Monitor control (RS232C)			✓ (In)		✓ (Manual peaking control)		✓ (Manual peaking control)		
Monitor control (LAN <RJ45>)			✓		✓ (In/Out)		✓ (In/Out)		
Self-diagnostics			✓		✓		✓		

Connector Terminal

LDT322V

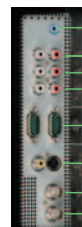
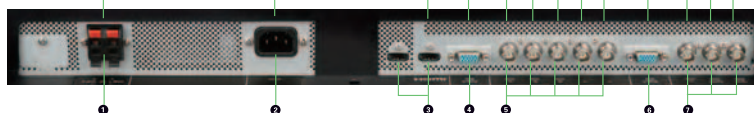


- ① AC IN Connector
- ② RGB 1 IN (DVI-D)
- ③ RGB 2 IN (mini D-Sub 15 pin)
- ④ RGB 3 IN [R, G, B, H, V] (BNC)
- ⑤ RGB OUT (mini D-Sub 15 pin)
- ⑥ DVD/HD IN [Y, Pb/Cb, Pr/Cr] (BNC)
- ⑦ AUDIO IN 1, 2, 3
- ⑧ AUDIO OUT
- ⑨ VIDEO IN/OUT
- ⑩ External Control (mini D-Sub 9 pin)
- ⑪ External Speaker Terminal

LDT421V2

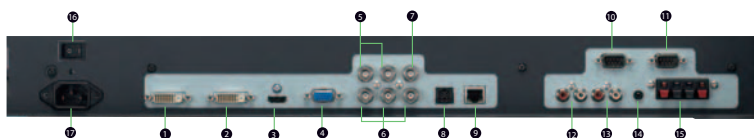


LDT461V2

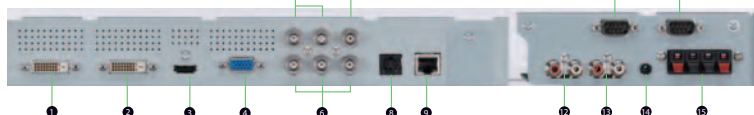


- ① External Speaker Terminal
- ② AC IN Connector
- ③ LDT461V2: RGB 1/RGB 2 IN (HDMI 1/HDMI 2)
LDT421V2: RGB 1 IN (HDMI)
- ④ LDT461V: RGB 3 IN (mini D-Sub 15 pin)
LDT421V2: RGB 1 IN (mini D-Sub 15 pin)
- ⑤ LDT461V2: RGB 4 IN [R, G, B, H, V] (BNC)
LDT421V2: RGB 3 IN [R, G, B, H, V] (BNC)
- ⑥ RGB OUT (mini D-Sub 15 pin)
- ⑦ DVD/HD IN [Y, Pb/Cb, Pr/Cr] (BNC)
- ⑧ AUDIO IN 1, 2, 3
- ⑨ AUDIO OUT
- ⑩ External Control (mini D-Sub 9 pin)
- ⑪ VIDEO IN/OUT

LDT521V

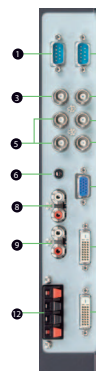


LDT651L



- ① PC/AV Output Terminal (DVI-D)
- ② PC1 Input Terminal (DVI-D)
AV1 Input Terminal (DVI-D)
- ③ PC2 Input Terminal (HDMI)
AV2 Input Terminal (HDMI)
- ④ PC3 Input Terminal (mini D-Sub 15 pin)
- ⑤ PC4 Input Terminals (BNC)
- ⑥ AV3 Input Terminals (BNC)
- ⑦ AV5 Input Terminal (BNC)
- ⑧ AV4 Input Terminal (S)
- ⑨ LAN Terminal
- ⑩ RS-232C Output Terminal (D-Sub 9 pin)
- ⑪ RS-232C Input Terminal (D-Sub 9 pin)
- ⑫ PC/AV Audio Output Terminals
- ⑬ AV Audio Input Terminals
- ⑭ PC Audio Input Terminal
- ⑮ External Speaker Terminals
- ⑯ Main Power Switch
- ⑰ AC Input Terminal

LDT651P



- ① RS-232C Output Terminal (D-Sub 9 pin)
- ② RS-232C Input Terminal (D-Sub 9 pin)
- ③ AV3 Input Terminal (BNC)
- ④ AV2 Input Terminals (BNC)
- ⑤ PC3 Input Terminals (BNC)
- ⑥ PC Audio Input Terminal
- ⑦ PC2 Input Terminal (mini D-Sub 15 pin)
- ⑧ AV Audio Input Terminals
- ⑨ PC/AV Audio Output Terminals
- ⑩ PC1 Input Terminal (DVI-D)
AV1 Input Terminal (DVI-D)
- ⑪ PC/AV Output Terminal (DVI-D)
- ⑫ External Speaker Terminals

Optional Stereo Speakers



SP-321V
for LDT322V



SP-421V
for LDT421V2



SP-461V
for LDT461V2

Optional Bezel



OB-421V-SL
OB-461V-SL

Silver bezel is available for LDT421V2 and 461V2 as an option.

Optional Stand



ST-322V
for LDT322V



ST-461V
for LDT461V2



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