

Panasonic
ideas for life







PROFESSIONAL DISPLAYS

LINE-UP CATALOGUE 2013/EARLY

Professional Plasma Displays

▶ PLASMA Interactive



- High-Speed Drawing/Simultaneous Multiple Drawing
- Excellent Visibility and Colour Reproduction Unique to the Plasma Display
- Easy, Wireless Presentations from a PC or Tablet

PB1 Series 65"

▶ PLASMA Large Format

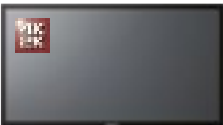






- Large Screens and Outstanding Image Quality
- The Superior Moving Picture Resolution
- Tough Display Panel with Impact-Resistant Hard Glass Panel

PF12 Series 103" 85"



UX1 Series 152"

▶ PLASMA FULL HD 3D









- Clear 3D Images from Ultra-high Speed Drive Technology
- High Picture Quality with Professional-Grade Engine
- Faithful Colours and Textures from a Wide Colour Gamut

VX200 Series 103" 85" **VX300 Series** 65"

▶ PLASMA STANDARD








- High Luminous Efficiency for Crisp, High-Contrast Images
- Function Slot (SLOT2.0) Expands Applications (PF50 Series)
- Durable Front Glass and a Service Life of Approx. 100,000 Hours*

*Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

PF50 Series 65" 60" 50" 42" **PH30 Series** 50" 42"

*PH30 Series are HD image (1,366 × 768 pixel) quality.

▶ BROADCAST PLASMA MONITORS








- A Professional-grade Engine for High Quality 2D and 3D
- Built-in Colour Range Conversion and Editing Functions
- FULL HD 3D Ready

BT300 Series 50" 42"

Professional LCD Displays

LED LCD Video Wall



- Super Narrow Bezel for Optimal Multi-Screen Layouts.
- Ideal for Installation in Bright Places 800-cd/m²
- Tough, Reliable Design

LFV50 Series 55"

LED LCD Large Format



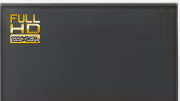
- Large-Screen High Brightness (700-cd/m²)
- 24/7 Operation
- Slim, Lightweight Design

LF50 Series 80" 70"

LCD STANDARD



*LF30 Series only.



- High Brightness Full-HD Panel - Optimal for Signage Applications
- Wide Range of Input Terminals
- Stylish and Slim Energy-Saving Design

LF5 Series 47" 42" LF30 Series 47" 42"

LCD Outdoor



- Excellent Visibility with High, 1,000-cd/m² Brightness
- Dustproof, Waterproof Performance to Withstand even Harsh Conditions
- Usable even under Direct Sunlight

LFX Series 47" *Scheduled for release in the third quarter of 2013.



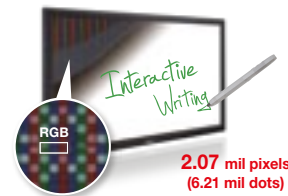


Model no.		TH-65PB1EK
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	65-inch (1,645 mm)/16:9
	Effective Display Area (W x H)	1,434 x 806 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels
	Contrast Ratio*1	5,000,000:1
	Gradation	6,144 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours
	FULL HD 3D*3	FULL HD 3D Ready
Touch Technology		Plasma light detection system
TERMINAL	VIDEO In	BNC x 1
	Audio In (L/R)	RCA x 1 set (Shared with Component/RGB In)
	Component/RGB In	BNC x 3
	Audio In (L/R)	RCA x 1 set (Shared with Video In)
	HDMI In	HDMI Type A Connector x 1
	DVI-D In	DVI-D 24-pin x 1
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)
	PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)
	Wireless I/F	Wireless Module (ET-WM200E) Terminal x 1
	Function Slot	SLOT2.0 x 1 (Vacant)
	LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible
	3D Shutter Out	M3 jack x 1 (For 3D IR Transmitter)
	DV 8V Out for 3D IR Transmitter	Centre Plus for EIAJ 4 mm Plug
GENERAL	Power Requirements	220-240 V AC, 50/60 Hz
	Power Consumptions	510 W
	On Mode Average Power Consumption*4	Approx. 310 W
	Dimensions (W x H x D)	1,554 x 925 x 99 mm
	Carton Size	1,700 x 1,032 x 400 mm
	Weight	Approx. 60.0 kg
	Gross Weight	Approx. 74.0 kg
	External Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)
FEATURES	Wireless Connections	Yes
	Network Function	Yes
	Weekly Command Timer	Yes
	Picture Profiles	Yes (8 memories)
	Input Search	Yes
	External Scaler Mode	—
	Auto Set Up	Yes
	Brightness Sensor	Yes
	Digital Zoom	Yes (x 1 - x 4)
	Portrait Zoom	Yes
	Video Wall	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes
	PC/DVI-D Power Management	Yes
	Power Save/Stand-by Save Mode	Yes
	Input/Button Lock	Yes
	Colour Gamut	—
	Studio Mode (W/B, Gain, Under Scan)	Yes
	Blue-Only Mode	—
	R/G/B Cut-off	—
	Waveform Monitor	—
Marker Setting	—	
HV Delay	—	

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.
 *3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images. *4: Based on IEC 62087 Ed.2 measurement method.

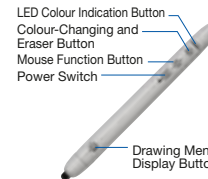
Excellent Writing Ease

A new electronic pen system has been developed that takes advantage of plasma characteristics. The pen's position is directly detected and displayed from the light emitted from each of the Full-HD resolution (1920 x 1080) pixels. This results in fast, smooth, precise writing and drawing.



User-friendly Electronic Pen for Easy Writing and Erasing

The special electronic pen has a selector button for easy switching between 4 colours and the erasing function. It can also be combined with application software for a wide variety of operations.



The menu tool display position can be changed to match the user.

- Display it in an easy-to-write position regardless of the user's height.
- Move it to an open space so other information is not concealed.

*The latest software can be downloaded here: <http://panasonic.net/prodisplays/download/software.html>

Easy Wireless Presentation from PC or Tablet

The optional ET-WM200E Wireless Module lets you send your computer's screen data to a conference room display by wireless transmission. It also eliminates the need to switch cables when presenters change during the meeting.



Multi-Live Mode

Up to 16 PC screens can be displayed.

● Four-Window Multi Style
● Four-Window Index Style
● 16-Window Index Style

* Panasonic wireless module (ET-WM200E), sold separately, is required.

Multiple Transmission Mode

Images from one PC can be shown on up to 8 displays.



Display of Content in iOS Devices on Large Screen

Wireless transmission is also possible from iOS devices. Simply install an application (free of charge) to display still-image slideshows and PDF images from an iPad, iPhone, etc.



**Panasonic Wireless Projector for iOS* can be downloaded free of charge from the App Store. For details, please visit the following site: <http://panasonic.net/prodisplays/download/software.html>



**Displays with a Wide Viewing Angle
— Ideal for Signage Use**

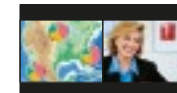
Plasma display panel images can be clearly seen even from an angle, giving them an excellent eye-catching effect when used as large-screen displays.



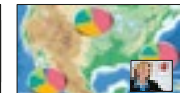
Dual Picture Mode

You can simultaneously display images from any two different AV sources connected. And you can select the audio output from either source. Playing back the audio from the sub-source can be useful in teleconferencing.

- Portrait Zoom, Multi Display or Digital Zoom function does not work in Dual Picture mode.
- Analogue signal combinations cannot be displayed.



Picture-and-Picture



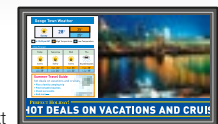
Picture-in-Picture



Picture-out-Picture

Advanced Dual Picture Mode

This mode lets you overlay a video image onto a full-screen PC image. You are now able to combine a video clip with any text information from a PC.



*Analogue signal combinations cannot be displayed.

Flexible Installation

A variety of installation methods are available to match your needs. If ceiling suspension is not possible, the display can also be mounted to the wall.



Ceiling Bracket



Pedestal

	Model no.	TH-103PF12E	TH-85PF12E	TH-152UX1W
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	103-inch (2,603 mm)/16:9	85-inch (2,167 mm)/16:9	152-inch (3,862 mm)/17:9
	Effective Display Area (W x H)	2,269 x 1,276 mm	1,889 x 1,062 mm	3,416 x 1,801 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	4,096 x 2,160 pixels
	Contrast Ratio*1	40,000:1	40,000:1	5,000,000:1
	Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	8,192 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
	FULL HD 3D	—	—	FULL HD 3D Ready*3
TERMINAL	VIDEO In	—	—	—
	Audio In (L/R)	—	—	—
	Component/RGB In	BNC x 3	BNC x 3	—
	Audio In (L/R)	M3 jack x 1	M3 jack x 1	—
	HDMI In	—	—	HDMI Type A Connector x 2
	Dual Link HD-SDI In*4	—	M3 jack x 1	Dual Link HD-SDI x 4
	DVI-D In	DVI-D 24-pin x 1	DVI-D 24-pin x 1	DVI-D 24-pin x 4*4, Compliance with DVI Revision 1.0
	Audio In (L/R)	M3 jack x 1	M3 jack x 1	—
	PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)
	Audio In (L/R)	M3 jack x 1	M3 jack x 1 (Shared with DVI-D In)	—
	Audio Output (L/R)	RCA x 1 set (Line out)	RCA x 1 set (Line out)	—
	Wireless I/F	—	—	—
	Function Slot	Yes	Yes	DVI-D 24-pin x 1 (Audio input is not available.)
	LAN Control	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™	—	—
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	—	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible
	3D Shutter Out	—	—	M3 jack x 1 (for 3D IR Transmitter)
DV 8V Out for 3D IR Transmitter	—	—	—	
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	200-240 V AC, 50 Hz/60 Hz
	Power Consumptions	1,450 W	1,100 W	3,700 W
	On Mode Average Power Consumption*5	Approx. 1,065 W	Approx. 890 W	Approx. 2,620 W
	Dimensions (W x H x D)	2,412 x 1,419 x 129*6 mm	2,015 x 1,195 x 99 mm	3,600 x 1,980 x 147*7 mm
	Carton Size	2,694 x 1,792 x 750 mm	2,254 x 1,521 x 577 mm	3,980 x 2,450 x 1,130 mm
	Weight	Approx. 201.0 kg	Approx. 117.0 kg	Approx. 577.0 kg
	Gross Weight	Approx. 339.0 kg	Approx. 184.0 kg	Approx. 1,100.0 kg
	External Speaker	—	—	—
Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		Temperature: 0 °C to 35 °C, Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES	Wireless Connections	—	—	—
	Network Function	Yes	Yes	Yes
	Weekly Command Timer	Yes	—	—
	Picture Profiles	Yes (8 memories)	Yes (8 memories)	Yes (16 memories)
	Input Search	—	—	—
	External Scaler Mode	—	—	Yes
	Auto Set Up	Yes	Yes	—
	Brightness Sensor	—	—	—
	Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	—
	Portrait Zoom	Yes	Yes	—
	Video Wall	Yes	Yes	—
	Power on Screen Delay	Yes	Yes	—
	PC Power Management	Yes	Yes	Yes
	Power Save/Stand-by Save Mode	Yes	Yes	Yes
	Input/Button Lock	Yes	Yes	Yes
	Colour Gamut	—	—	Yes
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes
	Blue-Only Mode	—	—	Yes
R/G/B Cut-off	—	—	—	
Waveform Monitor	—	—	—	
Marker Setting	—	—	—	
HV Delay	—	—	—	

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode.
 *3: Afterimages (burned-in images) and malfunctions are not taken into consideration.
 *4: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images. *4: 4 inputs is set and only for one 4K signal, You cannot input 4 different signal to each inputs.
 *5: Based on IEC 62087 Ed.2 measurement method. *6: Exclusive of portion (141 mm when including the protruding portion of the terminal).
 *7: Exclusive of portion (260 mm when including the protruding portion of the terminal).



NANODRIFT

NANODRIFT

NANODRIFT

PLASMA FULL HD 3D

8,192 Equivalent Steps of Gradation

The colour expression that is achieved by 8,192 equivalent steps of gradation, and the smoothness with which it renders intermediate colours, combine to create tonal nuances.



Smooth, natural gradation.

A Wide Colour Gamut Faithfully Reproduces the Colours

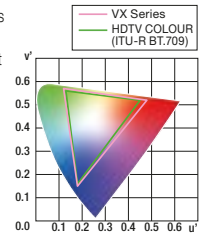
With the wide colour gamut of this panel, the natural colours and textures of materials can be faithfully reproduced, meeting versatile market needs.



Select from Four Setting Types with COLOUR GAMUT

The wide colour gamut approaches the digital cinema range to enable extremely fine colour rendering that was simply not possible with conventional panels.

- DIGITAL CINEMA COLOUR
- HDTV COLOUR
- NATIVE
- SMPTE-C
- CUSTOM

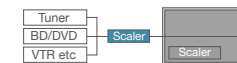


* DIGITAL CINEMA COLOUR/HDTV COLOUR (ITU-R BT.709) /NATIVE/CUSTOM for VX200 Series.

Process Images with External Scaler Mode

With this advanced function, you can process images exactly the way you want them. It lets you convert the image with an external scaler instead of using the display's built-in scaler.

External Scaler Mode [ON]



Direct reproduction of image adjusted with the scaler.

External Scaler Mode [OFF]

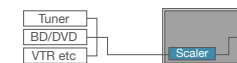


Image created with the VX Series.

Picture Profile

The picture adjustment values set using the Picture menu and advanced settings can be stored in the display's memory as profiles. Up to eight combinations can be stored, and the preferred profile can be selected to match the video source being used.

Manufacturer		Panasonic			
Series		VX200 Series		VX300 Series	
Model no.		TH-103VX200W	TH-85VX200W	TH-65VX300ER	
Product Fiche	Energy Efficiency Class	D	E	D	
	Visible Screen Size (Diagonal)	260 cm/103 inches	217 cm/85 inches	165 cm/65 inches	
	On Mode Average Power Consumption	942 W	739 W	390 W	
	Annual Energy Consumption*1	1,375 kWh/year	1,079 kWh/year	569 kWh/year	
	Standby Power Consumption	0.5 W	0.5 W	0.5 W	
	Off Mode Power Consumption	0.3 W	0.3 W	0.3 W	
	Display Resolution	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)	
	Aspect Ratio	16:9	16:9	16:9	
	Effective Display Area (W x H)	2,269 x 1,276 mm	1,889 x 1,062 mm	1,434 x 806 mm	
	Pixel Pitch (H x V)	1.182 x 1.182 mm	0.984 x 0.984 mm	0.747 x 0.747 mm	
DISPLAY	Native Contrast*2	5,000,000:1	5,000,000:1	5,000,000:1	
	Gradation	8,192 steps (equivalent)	8,192 steps (equivalent)	12,288 steps (equivalent)	
	Panel Life*3	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	
	FULL HD 3D	Yes	Yes	Yes*4	
	TERMINAL	VIDEO In	—		—
		Audio In (L/R)	—		—
		Component/RGB In	RCA x 3		BNC x 3
		Audio In (L/R)	RCA x 1 set		RCA x 1 set
		HDMI In	HDMI Type A Connector x 4		HDMI Type A Connector x 2
		DVI-D In	—		—
Audio In (L/R)		—		—	
PC In		Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x 1	
Audio In (L/R)		M3 jack x 1		M3 jack x 1 (Shared with DVI-D In)	
Audio Output (L/R)		RCA x 1 set		—	
GENERAL	Wireless I/F	—		—	
	Function Slot	SLOT2.0 x 1 (Vacant)		SLOT2.0 x 1 (Vacant)	
	LAN Control	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™		RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™	
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible		D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
	3D Shutter Out	M3 jack x 1 (for Optional 3D IR Transmitter)		M3 jack x 1 (for 3D IR Transmitter)	
	DV 8V Out for 3D IR Transmitter	—		Centre Plus for EIAJ 4 mm Plug	
	Power Requirements	200-240 V AC, 50 Hz/60 Hz	200-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	
	Power Consumption	1,450 W	1,200 W	450 W	
	Dimensions (W x H x D)	2,412 x 1,419 x 129 ⁵ mm	2,015 x 1,195 x 99 mm	1,554 x 924 x 94 mm	
	Carton Size	2,694 x 1,792 x 750 mm	2,194 x 1,480 x 549 mm	1,700 x 1,130 x 400 mm	
Weight	Approx. 199.0 kg	Approx. 117.0 kg	Approx. 60.0 kg		
Gross Weight	Approx. 337.0 kg	Approx. 146.0 kg	Approx. 76.0 kg		
External Speaker	—		8Ω, 20 W [10 W + 10 W] (10% THD)		
Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)		
Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)		
FEATURES	Wireless Connections	—		—	
	Network Function	Yes	Yes	Yes	
	Weekly Command Timer	—		—	
	Picture Profiles	Yes (16 memories)	Yes (16 memories)	Yes (16 memories)	
	Input Search	—		—	
	External Scaler Mode	Yes	Yes	Yes	
	Auto Set Up	Yes	Yes	Yes	
	Brightness Sensor	—		—	
	Digital Zoom	—		—	
	Portrait Zoom	—		—	
	Video Wall	—		—	
	Power on Screen Delay	—		—	
	PC Power Management	Yes	Yes	Yes	
	Power Save/Stand-by Save Mode	Yes/—	Yes/—	Yes/Yes	
	Input/Button Lock	Yes	Yes	Yes	
	Colour Gamut	Yes	Yes	Yes	
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes	
	Blue-Only Mode	Yes	Yes	Yes	
R/G/B Cut-off	—		Yes		
Waveform Monitor	—		Yes		
Marker Setting	—		Yes		
HV Delay	—		Yes		

*1: Energy consumption XYZ kWh per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used (Product fiche:Based on (EU) No. 1062/2010 ANNEX III).

*2: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.

*3: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode.

*4: Afterimages (burned-in images) and malfunctions are not taken into consideration. *4: An optional 3D Eyewear is required.

*5: Exclusive of portion (141 mm when including the protruding portion of the terminal)



Model no.	TH-65PF50E	TH-60PF50E	TH-50PF50E	TH-42PF50E
DISPLAY				
Screen Size (Diagonal)/Aspect Ratio	65-inch (1,645 mm)/16:9	60-inch (1,526 mm)/16:9	50-inch (1,268 mm)/16:9	42-inch (1,066 mm)/16:9
Effective Display Area (W x H)	1,434 x 806 mm	1,330 x 748 mm	1,105 x 622 mm	929 x 522 mm
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Contrast Ratio*1	5,000,000:1	5,000,000:1	5,000,000:1	5,000,000:1
Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)
Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D*3	FULL HD 3D Ready	FULL HD 3D Ready	FULL HD 3D Ready	FULL HD 3D Ready
TERMINAL				
VIDEO In	BNC x 1		BNC x 1	
Audio In (L/R)	RCA x 1 set (Shared with Component In)		RCA x 1 set (Shared with Component In)	
Component/RGB In	BNC x 3		BNC x 3	
Audio In (L/R)	RCA x 1 set (Shared with Video In)		RCA x 1 set (Shared with Video In)	
HDMI In	HDMI Type A Connector x 1		HDMI Type A Connector x 1	
DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1	
Audio In (L/R)	M3 jack x 1 (Shared with PC In)		M3 jack x 1 (Shared with PC In)	
PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)		M3 jack x 1 (Shared with DVI-D In)	
Wireless I/F	Wireless Module (ET-WM200E) Terminal x 1		Wireless Module (ET-WM200E) Terminal x 1	
Function Slot	SLOT2.0 x 1 (Vacant)		SLOT2.0 x 1 (Vacant)	
LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™		RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™	
Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible		D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
3D Shutter Out	M3 jack x 1 (for 3D IR Transmitter)		M3 jack x 1 (for 3D IR Transmitter)	
DV 8V Out for 3D IR Transmitter	Centre Plus for EIAJ 4 mm Plug		Centre Plus for EIAJ 4 mm Plug	
GENERAL				
Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
Power Consumptions	510 W	480 W	445 W	365 W
On Mode Average Power Consumption*4	Approx. 310 W	Approx. 280 W	Approx. 220 W	Approx. 160 W
Dimensions (W x H x D)	1,554 x 925 x 99 mm	1,434 x 852 x 99 mm	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm
Carton Size	1,700 x 1,032 x 400 mm	1,607 x 1,102 x 332 mm	1,385 x 836 x 284 mm	1,138 x 721 x 284 mm
Weight	Approx. 60.0 kg	Approx. 49.0 kg	Approx. 33.0 kg	Approx. 25.0 kg
Gross Weight	Approx. 73.0 kg	Approx. 65.0 kg	Approx. 41.0 kg	Approx. 31.0 kg
External Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10% THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
Operating Environment	Temperature: 0 °C to 40 °C/20 % to 80 % (Non condensation)		Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -20 °C to 60 °C/20 % to 90 % (Non condensation)		Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES				
Wireless Connections	Yes ⁵	Yes ⁵	Yes ⁵	Yes ⁵
Network Function	Yes	Yes	Yes	Yes
Weekly Command Timer	Yes	Yes	Yes	Yes
Picture Profiles	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)
Input Search	Yes	Yes	Yes	Yes
External Scaler Mode	—	—	—	—
Auto Set Up	Yes	Yes	Yes	Yes
Brightness Sensor	Yes	Yes	Yes	Yes
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Portrait Zoom	Yes	Yes	Yes	Yes
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	Yes	Yes	Yes
PC/DVI-D Power Management	Yes	Yes	Yes	Yes
Power Save/Stand-by Save Mode	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Input/Button Lock	Yes	Yes	Yes	Yes
Colour Gamut	—	—	—	—
Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes	Yes
Blue-Only Mode	—	—	—	—
R/G/B Cut-off	—	—	—	—
Waveform Monitor	—	—	—	—
Marker Setting	—	—	—	—
HV Delay	—	—	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.

*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode.

Afterimages (burned-in images) and malfunctions are not taken into consideration.

*3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images. *4: Based on IEC 62087 Ed.2. measurement method.

*5: Panasonic Wireless Module (ET-WM200E), sold separately, is required.



Model no.	TH-50PH30ER	TH-42PH30ER
DISPLAY		
Screen Size (Diagonal)/Aspect Ratio	50-inch (1,268 mm)/16:9	42-inch (1,057 mm)/16:9
Effective Display Area (W x H)	1,105 x 622 mm	921 x 518 mm
Number of Pixels (H x V)	1,024 x 768 pixels	1,024 x 768 pixels
Contrast Ratio*1	2,000,000 : 1	2,000,000 : 1
Gradation	5,120 steps (equivalent)	5,120 steps (equivalent)
Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D	—	—
TERMINAL		
VIDEO In	BNC x 1	
Audio In (L/R)	RCA x 1 set	
Component/RGB In	BNC x 3	
Audio In (L/R)	RCA x 1 set	
HDMI In	HDMI Type A Connector x 1	
DVI-D In	DVI-D 24pin x 1	
Audio In (L/R)	M3 jack x 1	
PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	
Audio In (L/R)	M3 jack x 1	
Wireless I/F	—	
Function Slot	—	
LAN Control	—	
Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
3D Shutter Out	—	
DV 8V Out for 3D IR Transmitter	—	
GENERAL		
Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
Power Consumptions	230 W	175 W
On Mode Average Power Consumption*3	195 W	150 W
Dimensions (W x H x D)	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm
Carton Size	1,385 x 836 x 284 mm	1,138 x 721 x 284 mm
Weight	Approx. 31.0 kg	Approx. 24.0 kg
Gross Weight	Approx. 39.0 kg	Approx. 30.0 kg
External Speaker	6 Ω, 16 W [B W + 8 W] (10 % THD)	6 Ω, 16 W [B W + 8 W] (10 % THD)
Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)	
FEATURES		
Wireless Connections	—	—
Network Function	—	—
Weekly Command Timer	—	—
Picture Profiles	—	—
Input Search	—	—
External Scaler Mode	—	—
Auto Set Up	Yes	Yes
Brightness Sensor	—	—
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Portrait Zoom	—	—
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	Yes
PC/DVI-D Power Management	—	—
Power Save/Stand-by Save Mode	Yes/—	Yes/—
Input/Button Lock	Yes	Yes
Colour Gamut	—	—
Studio Mode (W/B, Gain, Under Scan)	Yes	Yes
Blue-Only Mode	—	—
R/G/B Cut-off	—	—
Waveform Monitor	—	—
Marker Setting	—	—
HV Delay	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.
 *3: Based on IEC 62087 Ed.2. measurement method.

Approx. 110%*1 of the Colour Gamut of the HDTV Standard

High-definition broadcasts are based on the HDTV standard, rather than the conventional NTSC/PAL standard. Panasonic plasma displays reproduce a wide colour gamut exceeding the entire colour range specified in the HDTV standard (ITU-R, BT.709). This results in a natural and faithful colour reproduction on a large screen. Digital Colour Reality technology also assures images with immaculate details.

*1: Comparison based on colour gamut



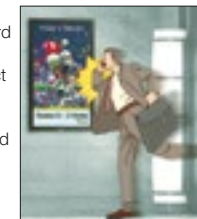
Wide Viewing Angle

Crisp images from anywhere sharing the same image quality.



Tough Body with Impact-Resistant Front Glass Panel

The front of the plasma display is covered by a hard glass panel that provides strong resistance to impact and breakage, thereby providing extra assurance against damage when used in busy public spaces. It virtually eliminates any need for additional protective covering.



Versatile Video Inputs with Multiple Digital, Analogue Connections

The PF/PH50 Series is equipped with full range of video input terminals, so you can input both analogue (Component Video, Video, PC) and digital (DVI-D, HDMI) video signals to the display. These standard-equipped terminals handle most of the commonly used video signals.

Superb Moving Picture Resolution (PF50 Series)

Steady, blur-free, fast-moving images such as sports scenes and action films.

1,080 lines 1,200 pps



Long Life of up to 100,000 Hours*1

The Panasonic plasma display panel offers a long life of approximately 100,000 hours*1, under normal operating conditions — providing gorgeous HD images for many years.

*1: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

PJLink™*1 — Compatible Network Function for Remote Control (PF50 Series)

This network function lets you operate displays by remote control and monitor their status through a LAN connection. Since it supports the "PJLink™*1 Class 1" industry standard, existing infrastructure can be used for effective plasma display operation. You can also control the display from a web browser, making it even easier to use. The network function also uses the same protocol as Panasonic projectors, so other video devices can be combined to upgrade the system.

*1: Unified standards for a telecommunications protocol for operating and managing multiple projectors.

• When using the network function, be sure to set "Control I/F Select" in "Network Setup" to "LAN."



A Function Slot Expands the Display's Applications (PF50 Series)

The "SLOT2.0" function slot lets you add display functions to match your application. By simply mounting an optional function board (sold separately), you can add TV tuner functions and connectivity with a content distribution system.





		50"		42"	
		NANODRIFT		NANODRIFT	
		TH-50BT300ER		TH-42BT300ER	
DISPLAY	Model no.	TH-50BT300ER		TH-42BT300ER	
	Screen Size (Diagonal)/Aspect Ratio	50-inch (1,268 mm)/16:9		42-inch (1,057 mm)/16:9	
	Effective Display Area (W x H)	1,105 x 622 mm		921 x 518 mm	
	Number of Pixels (H x V)	1,920 x 1,080 pixels		1,920 x 1,080 pixels	
	Contrast Ratio*1	5,000,000:1		5,000,000:1	
	Gradation	12,288 steps (equivalent)		12,288 steps (equivalent)	
	Panel Life*2	Approx. 100,000 hours		Approx. 100,000 hours	
TERMINAL	FULL HD 3D*3	FULL HD 3D Ready		FULL HD 3D Ready	
	VIDEO In	BNC x 1			
	Audio In (L/R)	RCA x 1 set			
	Component/RGB In	BNC x 3			
	Audio In (L/R)	RCA x 1 set			
	HDMI In	HDMI Type A Connector x 1			
	DVI-D In	DVI-D 24-pin x 1			
	Audio In (L/R)	M3 jack x 1			
	PC In	Mini D-Sub 15-pin x 1			
	Audio In (L/R)	M3 jack x 1 (Common terminal with DVI-D In)			
	Wireless I/F	—			
	Function Slot	SLOT2.0 x 1 (Vacant)			
	LAN Control	RJ45 10BASE-T/100BASE-TX, Compatible with PjLink™			
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible			
	3D Shutter Out	M3 jack x 1 (for 3D IR Transmitter)			
	DV 8V Out for 3D IR Transmitter	Centre Plus for EIAJ 4 mm Plug			
GENERAL	Power Requirements	220-240 V AC, 50 Hz/60 Hz		220-240 V AC, 50 Hz/60 Hz	
	Power Consumptions	390 W		305 W	
	On Mode Average Power Consumption*4	Approx. 200 W		Approx. 165 W	
	Dimensions (W x H x D)	1,210 x 724 x 89 mm		1,020 x 610 x 89 mm	
	Carton Size	1,385 x 836 x 284 mm		1,138 x 721 x 284 mm	
	Weight	Approx. 34.0 kg		Approx. 26.0 kg	
	Gross Weight	Approx. 41.0 kg		Approx. 31.0 kg	
	External Speaker	6 Ω, 16 W [B W + 8 W] (10 % THD)		6 Ω, 16 W [B W + 8 W] (10 % THD)	
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)			
	Storage Environment	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (Non condensation)			
FEATURES	Wireless Connections	—		—	
	Network Function	Yes		Yes	
	Weekly Command Timer	—		—	
	Picture Profiles	Yes (8 memories)		Yes (8 memories)	
	Input Search	—		—	
	External Scaler Mode	Yes		Yes	
	Auto Set Up	—		—	
	Brightness Sensor	—		—	
	Digital Zoom	Yes (x 1 - x 4)		Yes (x 1 - x 4)	
	Portrait Zoom	—		—	
	Video Wall	—		—	
	Power on Screen Delay	—		—	
	PC/DVI-D Power Management	—		—	
	Power Save/Stand-by Save Mode	Yes		Yes	
	Input/Button Lock	—		—	
	Colour Gamut	Yes		Yes	
	Studio Mode (W/B, Gain, Under Scan)	Yes		Yes	
	Blue-Only Mode	Yes		Yes	
	R/G/B Cut-off	Yes		Yes	
	Waveform Monitor	Yes		Yes	
Marker Setting	Yes		Yes		
HV Delay	Yes		Yes		

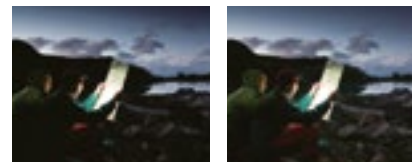
*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 x window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode.
 *3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.
 *4: Based on IEC 62087 Ed.2. measurement method.

Bi-level Drive Technology* Smoothly Displays Dark Areas

Smoother tonal expression is gained in dark areas thanks to a total of 12,288 steps, twice the number of our conventional models (compared with the PF20 Series).

* Valid for Cinema mode and Monitor mode.

Conventional BT300 Series



Faithfully Reproduces the Colours and Textures

Faithful colour reproduction, expression And image quality for demanding image production workflows.



Waveform Monitor

This function displays the waveform for the brightness and colour levels of input signals from other video devices, for easy monitoring.

Single Line Scan Mode Full Scan Mode



Displays the waveform for a signal that is input at any desired line (shown by the white line).

Displays the input signal waveforms for the entire screen.

Various Marker Functions

Aspect Marker

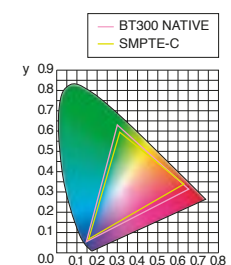
Confirm the angle of view with the 4:3, 13:9, 14:9, VISTA marker, and CNSCO marker.

Safe Area Marker (16:9/4:3)

Select the user area marker from 80% to 100% in 1% increments. During 16:9 mode, you can also layer and display the 4:3 area marker.

The Wide Colour Gamut Panel Reproduces Colours That Professional Applications Demand

Six modes are provided, including the colour gamut modes for broadcasting and post-production use including (SMPTC-C/ EBU/BT.709) and Digital Cinema Colour and Native. Custom mode allows you to set the hue for each RGB colour while viewing a simplified chroma diagram.



Superb Moving Picture Resolution

Steady, blur-free, fast-moving images such as sports scenes and action films.

1,080 lines 1,200 pps



HV Delay Display

This function delays the synchronisation signals for horizontal and vertical positioning to display the image blanking intervals.



HV Delay

Centre Marker (16:9/4:3)

The centre marker can be displayed together with another marker. It can also be displayed together with the area marker.

Crosshatch Grid

Display a grid within the screen for easy horizontal and vertical alignment.

* Vertical lines are displayed as perceived on 3% of the screen width.



Model no.		TH-55LFFV50W
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	55-inch (1,387.8 mm)/16:9
	Panel Type	D-LED
	Effective Display Area (W x H)	1,209.6 x 680.4 mm
	Number of Pixels (H x V)	1,920 x 1,080 pixels
	Brightness	800 cd/m ² (Typ)
	Contrast Ratio	1,400:1
	Response Time	10 ms (G to G)
	Viewing Angle	178°/178°
	Touch Screen Panel	—
	VIDEO In	BNC x 1
TERMINAL	Audio In (L/R)	RCA x 1 set (Shared with Component In)
	HDMI In	HDMI Type A Connector x 1
	Component In	BNC x 3
	Audio In (L/R)	RCA x 1 set (Shared with Video In)
	DVI-D In	DVI-D 24-pin x 1
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)
	DVI-I Out	DVI-I 29-pin x 1
	PC In	Mini D-Sub 15-pin x 1 (Female)
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)
	Audio Out (L/R)	RCA x 1 set
GENERAL	Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible
	Function Slot	—
	IR Transmitter In/Out	IR x 1/x 1
	LAN	RJ45 x 1 (Web Browser Control Only)
	Power Requirements	224-240 V AC, 50 Hz/60 Hz
	Power Consumption	Approx. 320 W
	On Mode Average Power Consumption ^{*1}	—
	Dimensions (W x H x D)	1,215.5 x 686.3 x 121.2 mm
	Carton Size	1,551 x 979 x 450 mm
	Bezel Width	3.4 mm (Left/Top), 1.9 mm (Right/Bottom)
FEATURES	Weight	Approx. 36.0 kg
	Gross Weight	Approx. 48.0 kg
	External Speaker	8 Ω, 20 W [10 W + 10 W]
	Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 10 % to 90 % (No condensation)
	Storage Environment ^{*2}	Temperature: -20 °C to 60 °C, Humidity: 20 % to 90 % (No condensation)
	IP Rating	—
	Touch Screen	—
	Failover Input	—
	24/7 Operation	—
	Ceiling-Suspension	—
Seam Hides Video Off Mode	Yes	
Daisy Chain (DVI/Remote/Serial)	Yes	
Input Search	—	
Brightness Sensor	—	
Digital Zoom	Yes	
Video Wall	Yes (N x M, up to 5 x 5)	
Power on Screen Delay	Yes	
Display ID Control	Yes	
PC/DVI-D Power Management	Yes	
Power Save Mode	—	
Input/Button Lock	—	
Remote-control Lock	Yes	
Screen Saver	Yes	
Studio W/B	—	
Winter Mode	—	
Orientation	Landscape/Portrait	

*1: Based on IEC 62087 Ed.2 measurement method.

*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

Super Narrow Bezel with 5.3-mm Thickness (Bezel to Bezel)

A super narrow bezel design reduces the width of screen-joining borders to only 5.3 mm in video wall. The borders are hardly visible even in very large-screen configurations, so images are more dynamic and natural.



Conventional Type

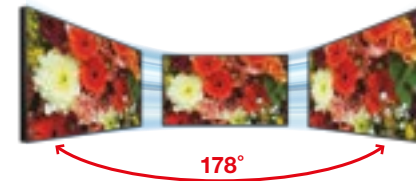


LFV50



High 800 cd/m² Brightness and a Wide Viewing Angle

LED LCD panels with a full 800 cd/m² of brightness ensure high visibility even in large public spaces. The IPS system also provides a wide viewing angle.



High visibility means clear and accurate display of information even in bright, open areas.

Low Power Consumption

Highly efficient LED LCD panel provides high-level energy savings. In addition to producing crisp, clear images, they also offer highly uniform brightness when used as a video wall.

Auto-Operation Setting for the Cooling Fan

Heat rises easily to the upper displays during multi-screen use. An internal temperature display lets you check the temperature, and the cooling fan can be set* to automatically operate at high temperatures.

*When set to Auto.

Daisy-Chain Connection

Signals can be distributed to as many as 10 displays from a single DVI input. When ID numbers have been assigned to the displays in advance, any designated display can be operated by a single remote control.



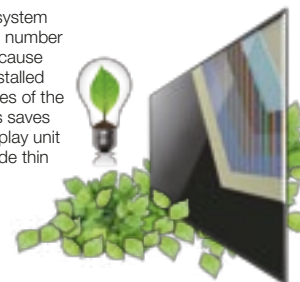
	TH-80LF50ER	TH-70LF50ER
Model no.	TH-80LF50ER	TH-70LF50ER
Screen Size (Diagonal)/Aspect Ratio	80-inch (2,032 mm)/16:9	70-inch (1,765 mm)/16:9
Panel Type	LED	LED
Effective Display Area (W x H)	1,771 x 996 mm	1,538 x 865 mm
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Brightness	700 cd/m ²	700 cd/m ²
Contrast Ratio	5,000:1	5,000:1
Response Time	9 ms (G to G)	9 ms (G to G)
Viewing Angle	178°/178°	178°/178°
Touch Screen Panel	—	—
DISPLAY		
VIDEO In	BNC x 1	
Audio In (L/R)	RCA x 1 set	
HDMI In	HDMI Type A Connector x 1	
Component/RGB In	BNC x 3	
Audio In (L/R)	RCA x 1 set	
DVI-D In	DVI-D 24-pin x 1	
Audio In (L/R)	M3 jack x 1 (Shared with PC In)	
DVI-D Out	DVI-D 24-pin x 1	
PC In	Mini D-Sub 15-pin x 1 (Female)	
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)	
Line Out (L/R)	RCA x 1 set, Output level: Variable (-∞ - 0 dB)	
Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1, RS-232C Compatible	
Function Slot	SLOT2.0 x 1	
IR Transmitter In/Out	—	
LAN	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™	
TERMINAL		
Power Requirements	224-240 V AC, 50 Hz/60 Hz	224-240 V AC, 50 Hz/60 Hz
Power Consumption	Approx. 380 W	Approx. 260 W
On Mode Average Power Consumption*1	—	—
Dimensions (W x H x D)	1,848 x 1,073 x 89 mm	1,604 x 931 x 89 mm
Carton Size	1,993 x 1,188 x 349 mm	1,750 x 1,047 x 349 mm
Bezel Width	36 mm	30 mm
Weight	Approx. 60.0 kg	Approx. 47.0 kg
Gross Weight	Approx. 71.0 kg	Approx. 56.0 kg
Operating Environment	Temperature: 0 °C to 40 °C, Humidity: 20 % to 80 % (Non condensation)	
Storage Environment*2	Temperature: -20 °C to 60 °C, Humidity: 20 % to 80 % (Non condensation)	
GENERAL		
IP Rating	—	—
Touch Screen Panel	—	—
Failover Input	—	—
24/7 Operation	Yes	Yes
Ceiling-Suspension	Yes	Yes
Daisy Chain	Yes	Yes
Input Search	Yes	Yes
Auto Set Up	—	—
Brightness Sensor	Yes	Yes
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	—
Display ID Control	Yes	Yes
PC/DVI-D Power Management	Yes	Yes
Power Save Mode	—	—
Input/Button Lock	Yes	Yes
Remote-control User Level Setting	Yes	Yes
Screen Saver	Yes	Yes
Studio W/B	—	—
Winter Mode	—	—
Orientation	Landscape/Portrait	Landscape/Portrait
FEATURES		

*1: Based on IEC 62087 Ed.2 measurement method.

*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

Edge Light System Used for Backlighting

The edge light system requires a small number of LED units because the lights are installed only on the edges of the LCD panel. This saves energy. The display unit can also be made thin and light.



Large-Screen, High-Brightness

High 700-cd/m² brightness and 5,000:1 contrast ensure excellent, eye-catching visibility even in large public spaces. This greatly increases the promotional value for signage use.



Fan-less Design

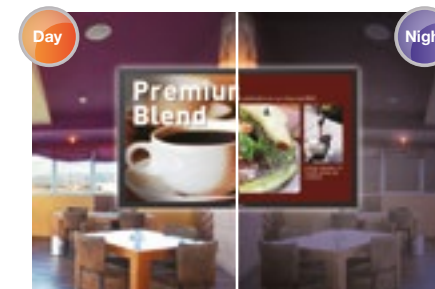
The fan-less design prevents malfunctions otherwise caused by dust particles brought in by the fan. This enables safe installation in crowded areas.

A Slim Design that Fits almost any Installation Location

The display can be installed in a permanent hanging position using eyebolts. Wall-mount brackets and hanging fixtures in compliance with VESA specifications can also be used for flexible installation.

24/7 Operation

The tough design makes the display panel suitable for use as signage that operates all day and night in places such as restaurants, shopping malls and transportation facilities.



Protective Glass (Optional)

Since the protective glass fits inside the bezel, the external dimensions remain virtually the same. The glass protects the LCD panel surface so the display can be installed in busy public areas.

Stylish Slim and Lightweight

A simple design with a slim bezel of approximately 30 mm (70") and thickness of only 89 mm facilitates signage applications by enabling installation just about anywhere.





Model no.	TH-47LF5E	TH-42LF5E	TH-47LF30ER	TH-42LF30ER
DISPLAY				
Screen Size (Diagonal)/Aspect Ratio	47-inch (1,192 mm)/16:9	42-inch (1,067 mm)/16:9	47-inch (1,192 mm)/16:9	42-inch (1,067 mm)/16:9
Effective Display Area (W x H)	1,039 x 584 mm	930 x 523 mm	1,039 x 584 mm	930 x 523 mm
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Brightness	500 cd/m ²	500 cd/m ²	700 cd/m ²	700 cd/m ²
Contrast Ratio	1,200:1	1,200:1	1,200:1	1,200:1
Response Time	9 ms (G to G)	9 ms (G to G)	9 ms (G to G)	9 ms (G to G)
Viewing Angle	178°/178°	178°/178°	178°/178°	178°/178°
Touch Screen Panel	—	—	—	—
TERMINAL				
VIDEO In	—	—	—	BNC x 1
Audio In (L/R)	—	—	—	RCA x 1 set
HDMI In	HDMI Type A Connector x 1	—	—	HDMI Type A Connector x 2
Component/RGB In	—	—	—	BNC x 3
Audio In (L/R)	—	—	—	RCA x 1 set
DVI-D In	DVI-D 24-pin x 1	—	—	DVI-D 24-pin x 1
Audio In (L/R)	M3 jack x 1 (Shared with PC In)	—	—	M3 jack x 1 (Shared with PC In)
DVI-D Out	—	—	—	DVI-D 24-pin x 1
PC In	Mini D-Sub 15-pin x 1	—	—	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)	—	—	M3 jack x 1 (Shared with DVI-D In)
Audio Out (L/R)	RCA x 1 set (Line out)	—	—	—
Serial	D-Sub 9-pin x 1 (SERIAL In/Out), RS-232C Compatible	—	—	D-Sub 9-pin x 1 (SERIAL In/Out), RS-232C Compatible
Function Slot	—	—	—	Yes
GENERAL				
Power Requirements	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
Power Consumptions	290 W	250 W	340 W	290 W
On Mode Average Power Consumption*1	Approx. 245 W	Approx. 205 W	Approx. 255 W	Approx. 220 W
Dimensions (W x H x D)	1,079 x 624 x 117 mm	968 x 561 x 116 mm	1,079 x 624 x 117 mm	968 x 561 x 116 mm
Carton Size	1,212 x 770 x 254 mm	1,101 x 707 x 224 mm	1,212 x 770 x 254 mm	1,101 x 707 x 224 mm
Weight	Approx. 24.5 kg	Approx. 20.0 kg	Approx. 25.0 kg	Approx. 21.0 kg
Gross Weight	Approx. 29.0 kg	Approx. 24.0 kg	Approx. 32.0 kg	Approx. 27.0 kg
Built-in Speakers	—	—	8 Ω, 10 W [5 W + 5 W] (10 %THD)	8 Ω, 10 W [5 W + 5 W] (10 %THD)
Operating Environment	Temperature : 0 °C to 40 °C, Humidity : 20 % to 80 % (Non condensation)	—	Temperature : 0 °C to 40 °C, Humidity : 20 % to 80 % (Non condensation)	Temperature : 0 °C to 40 °C, Humidity : 20 % to 80 % (Non condensation)
Storage Environment*2	Temperature : -20 °C to 60 °C, Humidity : 20 % to 90 % (Non condensation)	—	Temperature : -20 °C to 60 °C, Humidity : 20 % to 90 % (Non condensation)	Temperature : -20 °C to 60 °C, Humidity : 20 % to 90 % (Non condensation)
FEATURES				
IP Rating	—	—	—	—
Touch Screen	—	—	—	—
Failover Input	—	—	Yes	Yes
Input Search	Yes	Yes	—	—
Auto Set Up	—	—	—	—
Brightness Sensor	Yes	Yes	Yes	Yes
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	Yes	Yes	Yes
Display ID Control	Yes	Yes	Yes	Yes
PC/DVI-D Power Management	Yes	Yes	Yes	Yes
Power Save Mode	Yes	Yes	—	—
Input/Button Lock	Yes	Yes	Yes	Yes
Remote-control User Level Setting	Yes	Yes	Yes	Yes
Screen Saver	Yes	Yes	Yes	Yes
Studio W/B	Yes	Yes	Yes	Yes
Winter Mode	—	—	—	—
Orientation	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait

*1: Based on IEC 62087 Ed.2 measurement method.

*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

Versatile Functions for Public Information Displays

In addition to the high resolution of Full-HD and the wide viewing angle of the IPS panel, the LF Series features high brightness and 9-ms response. This makes it possible to display crisp, clear images even in bright places, for signage with excellent information transmission performance.



Stylish Design

The bezel on LF Series (42") is only 18.3 mm wide (18.6 mm on 47")



Capable of Continuous, 24-Hour Operation*

(LF5 Series)

This enables continuous, stable, 24-hour operation. It also makes this long-term, clear display ideal for signage use in public spaces such as airports and train stations.

* Continuous 24-hour operation may cause image retention or other problems in the LCD screen, depending on the display content.

Input Search Function

(LF5 Series)

If the input signal is not detected for some reason, another input with a signal is automatically selected for reliable operation. The display will not remain in a no-signal condition, making it well suited to signage use that produces advertising revenue.

(The specifications has a case to change without notice)

		PB1	PF12		UX	VX200		VX300	PF50			BT300		PH30		LFV50	LF50		LF30		LF5			
		TH-65PB1EK	TH-103PF12E	TH-85PF12E	TH-152UX1W	TH-103VX200W	TH-85VX200W	TH-65VX300ER	TH-65PF50E		TH-60PF50E	TH-50PF50E	TH-42PF50E	TH-50BT300ER	TH-42BT300ER	TH-50PH30ER	TH-42PH30ER	TH-55LFV50W	TH-80LF50ER	TH-70LF50ER	TH-47LF30ER	TH-42LF30ER	TH-47LF5E	TH-42LF5E
Size (inch)		65	103	85	152	103	85	65	65		60	50	42	50	42	50	42	55	80	70	47	42	47	42
Pedestal	TY-ST152UX1	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST103PF9	—	Yes	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST85P12	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST65VX300	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST65P20	Yes	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—
	TY-ST58P20	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	Yes	—	—	—	—
	TY-ST42P50	—	—	—	—	—	—	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—	Yes	Yes	—
	TY-ST20-K	—	—	—	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	Yes	Yes	—	—
Wall-hanging Bracket	TY-WK152UX1	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK103PV9	—	Yes	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK85PV12	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK70PV50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes	Yes	—	—	—	—
	TY-WK42PV20	—	—	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—
Wall-hanging Bracket (Angled)	TY-WK65PR20*1	Yes	—	—	—	—	—	Yes	Yes	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-WK42PR20	—	—	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—
Ceiling-hanging Bracket	TY-CE103PS10	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-CE85PS12	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-CE42PS20	—	—	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—
Floor Stand	TY-ST85PF12	—	—	Yes	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile Stand	TY-ST65PF1*2	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TY-ST58PF20	—	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—
Cover Frame Kit	TY-CF55VW50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—
Protective Glass	TY-PG80LF50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—
	TY-PG70LF50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes	—	—	—	—
Electronic Pen	TY-TPEN1PBW	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 65"	TY-TP65P30K	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 60"	TY-TP60P30K	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Touch Panel for 50"	TY-TP50P30K	—	—	—	—	—	—	—	—	—	Yes	—	—	—	Yes	—	—	—	—	—	—	—	—	—
Touch Panel for 42"	TY-TP42P30K	—	—	—	—	—	—	—	—	—	—	Yes	—	—	—	Yes	—	—	—	—	—	—	—	—
Touch pen	TY-TPEN30	—	—	—	—	—	—	—	Yes	—	Yes	Yes	—	—	Yes	Yes	—	—	—	—	—	—	—	—
Speaker for 65"	TY-SP65P11WK	—	—	—	—	—	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Speaker for 58"	TY-SP58P10WK	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Speaker for 50"	TY-SP50P8W-K	—	—	—	—	—	—	—	—	—	Yes	—	Yes	—	Yes	—	—	—	—	—	—	—	—	—
Speaker for 42"	TY-SP42P8W-K	—	—	—	—	—	—	—	—	—	—	Yes	—	Yes	—	Yes	—	—	—	—	—	—	—	—
3D IR Transmitter	TY-3DTRW	—	—	—	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3D IR Transmitter	TY-3D30TRW	Yes	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
3D Eyewear	TY-EW3D3LE	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
	TY-EW3D3ME	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
	TY-EW3D3SE	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—	—	—	—
Remote Control Kit	TY-RM50VW	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes	—	—	—	—	—	—
Wireless Module	ET-WM200E	Yes	—	—	—	—	—	—	Yes	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—	—	—
Easy Wireless Stick	ET-UW100	Yes	—	—	—	—	—	—	Yes	—	Yes	Yes	—	—	—	—	—	—	—	—	—	—	—	—

*1: Wall hanging Bracket suit for both Angled and Vertical use. Also usable for Portrait mounting in 0 degree.

*2: TY-ST65PF1 is silver colour.

(The specifications has a case to change without notice)

		PB1		PF12		UX	VX200		VX300		PF50				BT300		LF50		LF30	
		TH-65PB1EK	TH-103PF12E	TH-85PF12E	TH-152UX1W	TH-103VX200W	TH-85VX200W	TH-65VX300ER	TH-65PF50E		TH-60PF50E	TH-50PF50E	TH-42PF50E	TH-50BT300ER	TH-42BT300ER	TH-80LF50ER	TH-70LF50ER	TH-47LF30ER	TH-42LF30ER	
Size (inch)		65	103	85	152	103	85	65			65	60	50	42	50	42	80	70	47	42
HD-SDI	TY-FB9HD	Yes	Yes	Yes	—	—	—	Yes			Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
HD-SDI with Audio	TY-FB10HD	Yes	Yes	Yes	Yes* ¹	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual Link HD-SDI	TY-FB11DHD	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
Dual HD-SDI (with 3D Signal)	TY-FB30DHD3D	—	—	—	—	—	—	Yes			—	—	—	—	Yes	Yes	—	—	—	—
Dual HDMI	TY-FB10HMD	Yes	Yes*	Yes*	—	—	—	Yes			Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
BNC Dual Video	TY-FB9BD	Yes	Yes	Yes	—	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
Ir Through	TY-FB9RT	—	Yes	Yes	—	—	—	—			—	—	—	—	—	—	—	—	—	—
DVI-D	TY-FB11DD	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
DVI-D (with 3D Signal)	TY-FB30DD3D	—	—	—	—	—	—	Yes			—	—	—	—	Yes	Yes	—	—	—	—

* TY-42TM6A, TY-42TM6B, TY-42TM6G, TY-42TM6P, TY-42TM6V, TY-42TM6Y, TY-42TM6Z, TY-FB7SD, TY-FB8HM, TY-FB10WPE are compatible for PF12 Series.

Yes*: The standard terminal boards pre-installed in the slots

*1: Audio is not compatible.

Optional Terminal Boards



HD-SDI Terminal Board
TY-FB9HD



HD-SDI Terminal Board with Audio
TY-FB10HD



Dual Link HD-SDI Terminal Board with Audio
TY-FB11DHD



3D-Compatible Dual HD-SDI Terminal Board
TY-FB30DHD3D



Dual HDMI Terminal Board
TY-FB10HMD



BNC Dual Video Terminal Board
TY-FB9BD



Ir Through Board
TY-FB9RT



DVI-D Terminal Board
TY-FB11DD



3D-Compatible Dual DVI-D Terminal Board
TY-FB30DD3D

business.panasonic.eu/visual-system

Panasonic

Professional Displays Lineup Catalog Mid 2013

Panasonic

Panasonic System Communications Company of North America
Panasonic North America 3 Panasonic Way, 2F-5, Secaucus, NJ 07094
Telephone: +1-877-803-8492
<http://panasonic.com/business/flat-panel-displays/>

New address as of August 1, 2013:

Panasonic System Communications Company of North America
Panasonic Two Riverfront Plaza Newark, NJ 07102-5490

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3
Telephone: +1-905-624-5010
<https://panasonic.ca/english/broadcast/presentation/index.asp>
https://panasonic.ca/english/broadcast/presentation/index_ds.asp

For more information
about Panasonic professional displays,
please visit: panasonic.net/prodisplays



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Colombia: 01-8000-94-PANA (7262)
Ecuador: 1-800-PANASONIC (726276)



Simulated pictures on screen.
Specifications are subject to change without notice.
As of May 4, 2013.
CT13-U02PF

Professional Plasma Displays

▶ PLASMA Interactive

RLink SLOT 2.0 NANODRIFT 100,000 Hours



- High-Speed Drawing/Simultaneous Multiple Drawing
- Excellent Visibility and Color Reproduction Unique to the Plasma Display
- Easy, Wireless Presentations from a PC or Tablet

PB1 Series 103" 85" PB2 Series 65" 50"

▶ PLASMA FULL HD 3D

RLink SLOT 2.0 NANODRIFT 100,000 Hours



- Clear 3D Images from Ultra-high Speed Drive Technology
- High Picture Quality with Professional-Grade Engine
- Faithful Colors and Textures from a Wide Color Gamut

VX200 Series 103" 85" VX300 Series 65"

▶ PLASMA STANDARD

RLink SLOT 2.0 NANODRIFT 100,000 Hours



- High Luminous Efficiency for Crisp, High-Contrast Images
- Function Slot (SLOT2.0) Expands Applications (PF Series)
- Durable Front Glass and a Service Life of Approx. 100,000 Hours*

*Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

PF50 Series 65" 60" 50" 42"

PH30 Series 50" 42"
(HD) (HD)

*PH30 Series are HD image (1,366 x 768 pixel) quality.

Professional LCD Displays

▶ LED LCD Video Wall

HDMI



- Super Narrow Bezel for Near Seamless Multi-Screen Video Walls
- Ideal for Installation in Bright Places (800-cd/m²)
- Tough, Reliable Design

LFV50 Series 55"

▶ LED LCD Large Format

SLOT 2.0 HDMI



- Large-Screen High Brightness (700-cd/m²)
- Low Power Consumption
- Slim, Lightweight Design

LF50 Series 80" 70"

▶ LCD Outdoor

HDMI DIGITAL LINK



- A Full 1,000-cd/m² of Brightness Provides Easy Reading Even in Sunlight
- An Air-Cooled System for Use in Direct Sunlight Plus High Dust and Water Resistance
- The DIGITAL LINK Function Transmits Images, Sounds and Control Signals Up to 328.1 ft (100 m) Over a Single LAN Cable

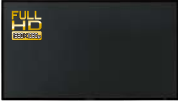
LFX6 Series 47"

Professional LCD Displays

LCD STANDARD



*LF30 Series only.



- High Brightness Full-HD Panel - Optimal for Signage Applications
- Wide Range of Input Terminals
- Stylish and Slim Energy-Saving Design

LF5 Series 47" 42" **LF30 Series** 47" 42"
LFE6 Series 50" 42"

LCD Hospitality for Hotels & Resort



- A Built-in Digital Tuner with Pro:Idiom®
- A Built-in Terminal Adaptor for Easy TV Installation (LRU60 Series)
- USB Cloning (LRU60 Series)

LRU60 Series 65" 50" 42" 39" 32" **LRU50 Series** 55" 42" 37" 32"
LRU5 Series 42" 37" 32" (HD) (HD)

*HD image (1,366 × 768 pixel) quality.

LCD Healthcare Grade



- Designed to Meet Healthcare Facility Needs
- Fully Compatible with Pillow Speaker
- A Built-in Digital Tuner with Pro:Idiom®

LRH50 Series 42" **LRH30 Series** 32" (HD)

*LRH30 Series is HD image (1,366 × 768 pixel) quality.

Professional Plasma Displays



Professional LCD Displays





	TH-103PB1U *	TH-85PB1U *	TH-65PB2U	TH-50PB2U
Model no.	TH-103PB1U *	TH-85PB1U *	TH-65PB2U	TH-50PB2U
DISPLAY				
Screen Size (Diagonal)/Aspect Ratio	102.5-inch (2,603 mm)/16:9	85.3-inch (2,167 mm)/16:9	64.7-inch (1,645 mm)/16:9	49.9-inch (1,268 mm)/16:9
Effective Display Area (W x H)	89.3" x 50.2" (2,269 x 1,276 mm)	74.3" x 41.8" (1,889 x 1,062 mm)	56.4" x 31.7" (1,434 x 806 mm)	43.5" x 24.5" (1,105 x 622 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Contrast Ratio*1	40,000:1	40,000:1	5,000,000:1	5,000,000:1
Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)
Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
Touch Technology	Plasma Light Detection System	Plasma Light Detection System	Plasma Light Detection System	Plasma Light Detection System
IR Reduction Filter	Yes	Yes	Yes	Yes
TERMINAL				
VIDEO In	BNC x 1		BNC x 1	
Audio In (L/R)	RCA x 1 set (Shared with Component/RGB In)		M3 jack x 1 set (Shared with Component/RGB In)	
Component/RGB In	BNC x 3		BNC x 3	
Audio In (L/R)	RCA x 1 set (Shared with Video In)		M3 jack x 1 set (Shared with Video In)	
HDMI In	HDMI Type A Connector x 1		HDMI Type A Connector x 1	
DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1	
Audio In (L/R)	M3 jack x 1 (Shared with PC In)		M3 jack x 1 (Shared with PC In)	
PC In	Mini D-Sub 15-pin x1 Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x1 Plug & Play (VESA DDC 2B)	
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)		M3 jack x 1 (Shared with DVI-D In)	
Audio Out (L/R)	RCA Pin Jack x 2		—	
Wireless I/F	Wireless Module (ET-WM200U) Terminal x 1		Wireless Module (ET-WM200U) Terminal x 1	
Electronic Pen Adaptor	—		Electronic Pen Adaptor x 1*3	
External Memory/Charge	—		USB Memory*3/Electronic Pen Charging x 1	
Charge	—		Electronic Pen Charging x 1	
Function Slot	SLOT2.0 x 1 (Vacant)		SLOT2.0 x 1 (Vacant)	
External Speaker	—		8 Ω, 20 W [10 W + 10 W] (10 % THD) 6 Ω, 16 W [8 W + 8 W] (10 % THD)	
LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™		RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™	
Serial	D-Sub 9-pin x 1 (RS-232C Compatible)		D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
GENERAL				
Power Requirements	220-240 V AC, 50/60 Hz	120 V AC, 50 Hz/60 Hz	110-127 V AC, 50/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumptions	1,310 W	1,170 W	550 W	400 W
On Mode Average Power Consumption*4	Approx. 730 W	Approx. 630 W	Approx. 290 W	Approx. 140 W
Dimensions (W x H x D)	95.0" x 55.9" x 4.9"*5 (2,412 x 1,419 x 123*5 mm)	79.4" x 47.1" x 3.9" (2,015 x 1,195 x 99 mm)	61.2" x 36.5" x 3.9" (1,554 x 925 x 99 mm)	47.7" x 28.5" x 3.5" (1,210 x 724 x 89 mm)
Carton Size	106.1" x 70.6" x 29.6" (2,694 x 1,792 x 750 mm)	88.7" x 60.3" x 22.7" (2,254 x 1,531 x 577 mm)	67.0" x 40.7" x 15.8" (1,700 x 1,032 x 400 mm)	54.6" x 32.9" x 11.2" (1,385 x 836 x 284 mm)
Weight	Approx. 416.7 lbs. (189.0 kg)	Approx. 253.6 lbs. (115.0 kg)	Approx. 127.9 lbs. (58.0 kg)	Approx. 75.0 lbs. (34.0 kg)
Gross Weight	Approx. 720.9 lbs. (327.0 kg)	Approx. 405.7 lbs. (184.0 kg)	Approx. 154.4 lbs. (70.0 kg)	Approx. 97.0 lbs. (44.0 kg)
Sound	20 W [10 W + 10 W] (10 % THD)		20 W [10 W + 10 W] (10 % THD)	
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)		Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)		Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	
FEATURES				
Easy Whiteboard Function	—	—	Yes	Yes
Dual Picture	—	—	Yes (Picture-in-Picture/Picture-in Whiteboard)	Yes (Picture-in-Picture/Picture-in Whiteboard)
Remote Pointer Function	Yes*6	Yes*6	Yes	Yes
Wireless Connections	Yes*7	Yes*7	Yes*7	Yes*7
Network Function	—	—	—	—
Weekly Command Timer	Yes	Yes	Yes	Yes
Picture Profiles	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)
Input Search	—	—	—	—
External Scaler Mode	—	—	—	—
Auto Set Up	Yes	Yes	Yes	Yes
Brightness Sensor	Yes	Yes	Yes	Yes
Digital Zoom	Yes	Yes	Yes (x 1 - x 4)	Yes
Power on Screen Delay	—	—	—	—
PC/DVI-D Power Management	Yes	Yes	Yes	Yes
Power Save/Stand-by Save Mode	Yes	Yes	Yes	Yes
Input/Button Lock	Yes	Yes	Yes	Yes
Color Gamut	—	—	—	—
Studio Mode (W/B, Gain, Under Scan)	—	Yes	Yes	Yes
Blue-Only Mode	—	—	—	—
R/G/B Cut-off	—	—	—	—
Waveform Monitor	—	—	—	—
Marker Setting/HV Delay	—	—	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 ° window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration. *3: Only effective when using Easy Whiteboard function. *4: Based on IEC 62067 Ed.2 measurement method.

*5: 5.3" (134 mm) when including the protruding portion of slot. *6: The Remote Pointer Kit (TY-TPEN1RM) or Electronic Pen (TY-TPEN2) and Electronic Pen Adaptor (TY-TAD20), sold separately, are required. *7: Panasonic Wireless Module (ET-WM200U), sold separately, is required.
 * The Electronic Pen Kit and Remote Pointer Kit are optional. * The model numbers for Latin America are TH-103PB1W, TH-85PB1W.

Excellent Writing Ease

A new electronic pen system has been developed that takes advantage of plasma characteristics. The pen's position is directly detected and displayed from the light emitted from each of the Full-HD resolution (1920 x 1080) pixels. This results in fast, smooth, precise writing and drawing.

*A separate personal computer is required.



Simultaneous Writing by Up to 4 People

Because up to 4 pens can be individually recognized, people can write with pens of different colors and thicknesses simultaneously. Only the pen is detected, so there are no errors caused by contact with clothing or hands.

*Dedicated software is required.



No need for a PC! Easy Start-up, Integrated whiteboard Functions (PB2 Series)

The display is embedded with "Easy Whiteboard" software. This lets you immediately use the display as a whiteboard, without requiring a PC. By storing handwritten text and graphics into external USB memory, you can retrieve the data and edit it at a later time. You can also draw onto data input and displayed from connected peripheral devices, such as a PC or player.

* Can be saved as PNG or JPEG (editing is enabled in PNG only)
 * Text and graphics drawn onto data displayed from external input cannot be saved.
 * Only one pen can be used at the same time.

Used as a whiteboard

External USB memory connected to charger

Up to 999 pages can be created on the whiteboard.

Handwritten notes can be saved into an external USB memory.

Saved data can be retrieved and edited.

Immediate Use — No Calibration or Driver Needed

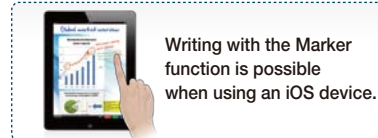
No calibration is required and the drawing position is always precise because plasma illumination is detected in pixel units. Special Whiteboard Software can be started directly from external memory on which it has been saved. This allows meetings and lessons to start immediately using any desired PC.

* Supported by Windows® XP/Windows Vista®/Windows® 7, 8 However, some functions are restricted when using Windows XP/Vista.



Easy Wireless Presentations from a PC or Tablet

PowerPoint®, Word, Excel, PDF and other data and images can be easily transmitted from your PC, iPad, iPhone, or iPod touch. There's also no need to switch cables when presenters change, and no need to worry about where in the room you are seated. Presentations go smoothly and easily.



Visit our website for details:
<http://panasonic.net/prodisplays/products/pbseries/index.html>

* The optional ET-WM200U Wireless Module is required for wireless connection.
 * Application software for wireless transmission or other dedicated application software is required.

Software

Whiteboard Software

The interactive display is even more convenient to use.

For Windows

3 Operating Modes

Smoother lessons are possible by switching between operating modes.

Desktop Control Mode

(Drawing is not possible.)

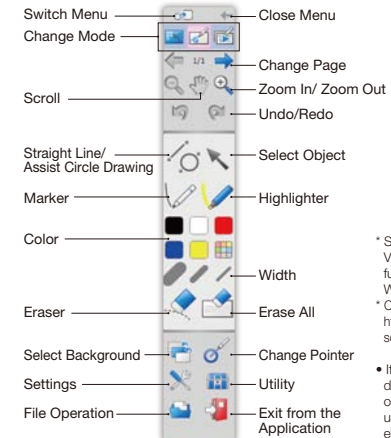
Use an Electronic Pen to control files and applications on the desktop.

Whiteboard Mode

Use as a whiteboard (with 6 pattern backgrounds).

PowerPoint Link Mode

You can write onto PowerPoint slides, and move slides around.



* Supported by Windows® XP/Windows Vista®/Windows® 7, 8 However, some functions are restricted when using Windows XP/Vista.
 * Click here to download the latest Software. <http://panasonic.net/prodisplays/download/software/index.html>

• If you prefer application software that is designed especially for educational use, or if you have a Mac computer, please use elite Panaboard software and the elite Panaboard book.

Ideal for Various Situations

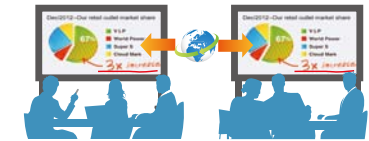
For Presentations



Messages are relayed more clearly by writing directly into data

Points can be made easier to understand by writing them directly into data displayed on the large screen.

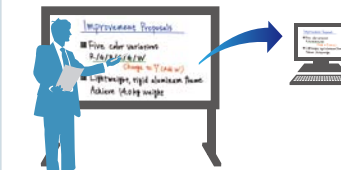
For Remote Meetings



Communication goes more smoothly by writing things down

Data shared with another party in a remote location can be seen by everyone on the large screen. Using a Remote Pointer also clearly shows the other party the area that you are discussing.

As a Whiteboard



Information can be easily shared by preserving written content

Information written onto the board can be quickly and easily saved for use as minutes of the meeting. Also, if the meeting is interrupted, the previous data can be recalled to continue the discussion from where it left off.

For Online Seminars



Understanding can be deepened by adding the main points

By explaining your message while writing directly into data or educational materials, the remote party gets a clearer view of the points you want to relay.



8,192 Equivalent Steps of Gradation

The color expression that is achieved by 8,192 equivalent steps of gradation, and the smoothness with which it renders intermediate colors, combine to create tonal nuances.



Smooth, natural gradation.

A Wide Color Gamut Faithfully Reproduces the Colors

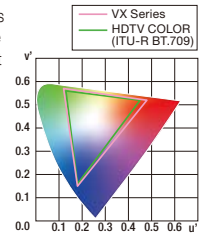
With the wide color gamut of this panel, the natural colors and textures of materials can be faithfully reproduced, meeting versatile market needs.



Select from Four Setting Types with COLOR GAMUT

The wide color gamut approaches the digital cinema range to enable extremely fine color rendering that was simply not possible with conventional panels.

- DIGITAL CINEMA COLOR
- HDTV COLOR
- EBU
- NATIVE
- SMPTE-C
- CUSTOM

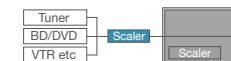


* DIGITAL CINEMA COLOR/HDTV COLOR (ITU-R BT.709) /NATIVE/CUSTOM for VX200 Series.

Process Images with External Scaler Mode

With this advanced function, you can process images exactly the way you want them. It lets you convert the image with an external scaler instead of using the display's built-in scaler.

External Scaler Mode [ON]



Direct reproduction of image adjusted with the scaler.

External Scaler Mode [OFF]

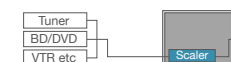


Image created with the VX Series.

Picture Profile

The picture adjustment values set using the Picture menu and advanced settings can be stored in the display's memory as profiles. Up to eight combinations can be stored, and the preferred profile can be selected to match the video source being used.

Model no.	TH-103VX200U *	TH-85VX200U *	TH-65VX300U
DISPLAY			
Screen Size (Diagonal)/Aspect Ratio	102.4-inch (2,603 mm)/16:9	85.3-inch (2,167 mm)/16:9	64.7-inch (1,645 mm)/16:9
Effective Display Area (W x H)	89.3" x 50.2" (2,269 x 1,276 mm)	74.3" x 41.8" (1,889 x 1,062 mm)	56.4" x 31.7" (1,434 x 806 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Contrast Ratio*1	5,000,000:1	5,000,000:1	5,000,000:1
Gradation	8,192 steps (equivalent)	8,192 steps (equivalent)	12,288 steps (equivalent)
Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D	Yes	Yes	Yes*3
TERMINAL			
VIDEO In	—	—	—
Audio In (L/R)	—	—	—
Component/RGB In	RCA x 3	RCA x 3	BNC x 3
Audio In (L/R)	RCA x 1 set	RCA x 1 set	RCA x 1 set
HDMI In	HDMI Type A Connector x 4	HDMI Type A Connector x 4	HDMI Type A Connector x 2
Dual Link HD-SDI In*4	—	—	—
DVI-D In	—	—	—
Audio In (L/R)	—	—	—
PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1
Audio In (L/R)	M3 jack x 1	M3 jack x 1	M3 jack x 1
Audio Out (L/R)	RCA x 1 set (Line out)	RCA x 1 set (Line out)	—
Wireless I/F	—	—	—
Function Slot	SLOT2.0 x 1 (Vacant)	SLOT2.0 x 1 (Vacant)	SLOT2.0 x 1 (Vacant)
LAN Control	RJ45 10BASE-T/100BASE-TX, Compatible with PjLink™	RJ45 10 BASE-T/100 BASE-TX, Compatible with PjLink™	RJ45 10 BASE-T/100 BASE-TX, Compatible with PjLink™
Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible
3D Shutter Out	M3 jack x 1 (for 3D IR Transmitter)	M3 jack x 1 (for 3D IR Transmitter)	M3 jack x 1 (for 3D IR Transmitter)
DV 8V Out for 3D IR Transmitter	—	—	Center Plus for EIAJ 4 mm Plug
GENERAL			
Power Requirements	200-240 V AC, 50 Hz/60 Hz	120 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumptions	1,400 W	1,250 W	485 W
On Mode Average Power Consumption*5	Approx. 942 W	Approx. 739 W	Approx. 315 W
Dimensions (W x H x D)	95.0" x 55.9" x 5.1" (2,412 x 1,419 x 129.7 mm)	79.4" x 47.1" x 3.9" (2,015 x 1,195 x 99 mm)	61.2" x 36.4" x 3.7" (1,554 x 924 x 94 mm)
Carton Size	106.1" x 70.6" x 29.5" (2,694 x 1,792 x 750 mm)	88.7" x 59.9" x 22.7" (2,254 x 1,521 x 577 mm)	67.0" x 44.5" x 15.8" (1,700 x 1,130 x 400 mm)
Weight	Approx. 438.7 lbs. (199.0 kg)	Approx. 260.1 lbs. (118.0 kg)	Approx. 132.3 lbs. (60.0 kg)
Gross Weight	Approx. 743.0 lbs. (337.0 kg)	Approx. 405.7 lbs. (184.0 kg)	Approx. 167.6 lbs. (76.0 kg)
External Speaker	—	—	8 Ω, 20 W [10 W + 10 W] (10% THD)
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)
FEATURES			
Wireless Connections	—	—	—
Network Function	Yes	Yes	Yes
Weekly Command Timer	—	—	—
Picture Profiles	Yes (16 memories)	Yes (16 memories)	Yes (16 memories)
Input Search	—	—	—
External Scaler Mode	Yes	Yes	Yes
Auto Set Up	Yes	Yes	Yes
Brightness Sensor	—	—	—
Digital Zoom/Portrait Zoom	—/—	—/—	—/—
Video Wall	—	—	—
Power on Screen Delay	—	—	—
PC Power Management	Yes	Yes	Yes
Power Save/Stand-by Save Mode	Yes/—	Yes/—	Yes/Yes
Input/Button Lock	Yes	Yes	Yes
Color Gamut	Yes	Yes	Yes
Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes
Blue-Only Mode	Yes	Yes	Yes
R/G/B Cut-off	—	—	Yes
Waveform Monitor	—	—	Yes
Marker Setting	—	—	Yes
HV Delay	—	—	Yes

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration. *3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images. (TH-65VX300U: An optional 3D Eyewear is required).
 *4: 4 inputs is set and only for one 4K signal, You cannot input 4 different signal to each inputs. *5: Based on IEC 62087 Ed.2 measurement method.
 *6: Exclusive of portion (5.6" [141 mm] when including the protruding portion of the terminal)

*The model numbers for Latin America are TH-103VX200W, TH-85VX200W.



Model no.	TH-65PF50U	TH-60PF50U	TH-50PF50U	TH-42PF50U
DISPLAY				
Screen Size (Diagonal)/Aspect Ratio	64.7-inch (1,645 mm)/16:9	60.1-inch (1,526 mm)/16:9	49.9-inch (1,268 mm)/16:9	41.9-inch (1,066 mm)/16:9
Effective Display Area (W x H)	56.4" x 31.7" (1,434 x 806 mm)	52.3" x 29.4" (1,330 x 748 mm)	43.5" x 24.5" (1,105 x 622 mm)	36.5" x 20.5" (929 x 522 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Contrast Ratio*1	5,000,000:1	5,000,000:1	5,000,000:1	5,000,000:1
Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)
Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D*3	FULL HD 3D Ready	FULL HD 3D Ready	FULL HD 3D Ready	FULL HD 3D Ready
TERMINAL				
VIDEO In	BNC x 1		BNC x 1	
Audio In (L/R)	RCA x 1 set (Shared with Component In)		RCA x 1 set (Shared with Component In)	
Component/RGB In	BNC x 3		BNC x 3	
Audio In (L/R)	RCA x 1 set (Shared with Video In)		RCA x 1 set (Shared with Video In)	
HDMI In	HDMI Type A Connector x 1		HDMI Type A Connector x 1	
DVI-D In	DVI-D 24-pin x 1		DVI-D 24-pin x 1	
Audio In (L/R)	M3 jack x 1 (Shared with PC In)		M3 jack x 1 (Shared with PC In)	
PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)		Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)		M3 jack x 1 (Shared with DVI-D In)	
Wireless I/F	Wireless Module (ET-WM200U) Terminal x 1		Wireless Module (ET-WM200U) Terminal x 1	
Function Slot	SLOT2.0 x 1 (Vacant)		SLOT2.0 x 1 (Vacant)	
LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™		RJ45 10 BASE-T/100 BASE-TX, Compatible with PLink™	
Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible		D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
3D Shutter Out	M3 jack x 1 (for 3D IR Transmitter)		M3 jack x 1 (for 3D IR Transmitter)	
DV 8V Out for 3D IR Transmitter	Center Plus for EIAJ 4 mm Plug		Center Plus for EIAJ 4 mm Plug	
GENERAL				
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumptions	555 W	515 W	480 W	390 W
On Mode Average Power Consumption*4	Approx. 315 W	Approx. 285 W	Approx. 151 W	Approx. 110 W
Dimensions (W x H x D)	61.2" x 36.5" x 3.9" (1,554 x 925 x 99 mm)	56.5" x 33.6" x 3.9" (1,434 x 852 x 99 mm)	47.7" x 28.5" x 3.5" (1,210 x 724 x 89 mm)	40.2" x 24.1" x 3.5" (1,020 x 610 x 89 mm)
Carton Size	66.9" x 44.5" x 15.8" (1,700 x 1,032 x 400 mm)	63.4" x 39.7" x 13.2" (1,611 x 1,008 x 334 mm)	54.5" x 32.9" x 11.2" (1,385 x 836 x 284 mm)	44.8" x 28.4" x 11.2" (1,138 x 721 x 284 mm)
Weight	Approx. 132.3 lbs. (60.0 kg)	Approx. 108 lbs. (49.0 kg)	Approx. 72.8 lbs. (33.0 kg)	Approx. 55.2 lbs. (25.0 kg)
Gross Weight	Approx. 160.9 lbs. (73.0 kg)	Approx. 136.7 lbs. (62.0 kg)	Approx. 92.6 lbs. (42.0 kg)	Approx. 68.3 lbs. (31.0 kg)
External Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)		Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)		Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	
FEATURES				
Wireless Connections	Yes ⁵	Yes ⁵	Yes ⁵	Yes ⁵
Network Function	Yes	Yes	Yes	Yes
Weekly Command Timer	Yes	Yes	Yes	Yes
Picture Profiles	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)	Yes (8 memories)
Input Search	Yes	Yes	Yes	Yes
External Scaler Mode	—	—	—	—
Auto Set Up	Yes	Yes	Yes	Yes
Brightness Sensor	Yes	Yes	Yes	Yes
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Portrait Zoom	Yes	Yes	Yes	Yes
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	Yes	Yes	Yes
PC/DVI-D Power Management	Yes	Yes	Yes	Yes
Power Save/Stand-by Save Mode	Yes	Yes	Yes	Yes
Input/Button Lock	Yes	Yes	Yes	Yes
Color Gamut	—	—	—	—
Studio Mode (W/B, Gain, Under Scan)	Yes	Yes	Yes	Yes
Blue-Only Mode	—	—	—	—
R/G/B Cut-off	—	—	—	—
Waveform Monitor	—	—	—	—
Marker Setting	—	—	—	—
HV Delay	—	—	—	—

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.

*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode.

Afterimages (burned-in images) and malfunctions are not taken into consideration.

*3: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images. *4: Based on IEC 62087 Ed.2 measurement method.

*5: Panasonic Wireless Module (ET-WM200U), sold separately, is required.



	Model no.	TH-50PH30U	TH-42PH30U
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	49.9-inch (1,268 mm)/16:9	41.6-inch (1,057 mm)/16:9
	Effective Display Area (W x H)	43.5" x 24.4" (1,105 x 622 mm)	36.2" x 20.4" (921 x 518 mm)
	Number of Pixels (H x V)	1,024 x 768 pixels	1,024 x 768 pixels
	Contrast Ratio*1	2,000,000 : 1	2,000,000 : 1
	Gradation	5,120 steps (equivalent)	5,120 steps (equivalent)
	Panel Life*2	Approx. 100,000 hours	Approx. 100,000 hours
	FULL HD 3D	—	—
TERMINAL	VIDEO In	BNC x 1	
	Audio In (L/R)	RCA x 1 set	
	Component/RGB In	BNC x 3	
	Audio In (L/R)	RCA x 1 set	
	HDMI In	HDMI Type A Connector x 1	
	DVI-D In	DVI-D 24pin x 1	
	Audio In (L/R)	M3 jack x 1	
	PC In	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	
	Audio In (L/R)	M3 jack x 1	
	Wireless I/F	—	
	Function Slot	—	
	LAN Control	—	
	Serial	D-Sub 9-pin x 1 (External Control Terminal), RS-232C Compatible	
3D Shutter Out	—		
DV 8V Out for 3D IR Transmitter	—		
GENERAL	Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
	Power Consumptions	245 W	185 W
	On Mode Average Power Consumption*3	197 W	150 W
	Dimensions (W x H x D)	47.7" x 28.5" x 3.5" (1,210 x 724 x 89 mm)	40.2" x 24.1" x 3.5" (1,020 x 610 x 89 mm)
	Carton Size	54.5" x 32.9" x 11.2" (1,385 x 836 x 284 mm)	44.8" x 28.4" x 11.2" (1,138 x 721 x 284 mm)
	Weight	Approx. 68.4 lbs. (31.0 kg)	Approx. 53.0 lbs. (24.0 kg)
	Gross Weight	Approx. 88.2 lbs. (40.0 kg)	Approx. 63.9 lbs. (29.0 kg)
	External Speaker	6 Ω, 16 W [B W + 8 W] (10 % THD)	6 Ω, 16 W [B W + 8 W] (10 % THD)
	Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	
	Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	
FEATURES	Wireless Connections	—	—
	Network Function	—	—
	Weekly Command Timer	—	—
	Picture Profiles	—	—
	Input Search	—	—
	External Scaler Mode	—	—
	Auto Set Up	Yes	Yes
	Brightness Sensor	—	—
	Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)
	Portrait Zoom	—	—
	Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes	Yes
	PC/DVI-D Power Management	—	—
	Power Save/Stand-by Save Mode	Yes/—	Yes/—
	Input/Button Lock	Yes	Yes
	Color Gamut	—	—
	Studio Mode (W/B, Gain, Under Scan)	Yes	Yes
	Blue-Only Mode	—	—
	R/G/B Cut-off	—	—
	Waveform Monitor	—	—
Marker Setting	—	—	
HV Delay	—	—	

*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 % window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.
 *3: Based on IEC 62087 Ed.2 measurement method.

Approx. 110%*1 of the Color Gamut of the HDTV Standard

High-definition broadcasts are based on the HDTV standard, rather than the conventional NTSC/PAL standard. Panasonic plasma displays reproduce a wide color gamut exceeding the entire color range specified in the HDTV standard (ITU-R, BT.709). This results in a natural and faithful color reproduction on a large screen. Digital Color Reality technology also assures images with immaculate details.

*1: Comparison based on color gamut



Wide Viewing Angle

Crisp images from anywhere sharing the same image quality.



Tough Body with Impact-Resistant Front Glass Panel

The front of the plasma display is covered by a hard glass panel that provides strong resistance to impact and breakage, thereby providing extra assurance against damage when used in busy public spaces. It virtually eliminates any need for additional protective covering.



Versatile Video Inputs with Multiple Digital, Analog Connections

The PF/PH Series are equipped with full range of video input terminals, so you can input both analog (Component Video, Video, PC) and digital (DVI-D, HDMI) video signals to the display. These standard-equipped terminals handle most of the commonly used video signals.

Superb Moving Picture Resolution (PF Series)

Steady, blur-free, fast-moving images such as sports scenes and action films.

1,080 lines 1,200 pps



Long Life of up to 100,000 Hours*1

The Panasonic plasma display panel offers a long life of approximately 100,000 hours*1, under normal operating conditions — providing gorgeous HD images for many years.

*1: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

PJLink™*1 — Compatible Network Function for Remote Control (PF Series)

This network function lets you operate displays by remote control and monitor their status through a LAN connection. Since it supports the "PJLink™*1 Class 1" industry standard, existing infrastructure can be used for effective plasma display operation. You can also control the display from a web browser, making it even easier to use. The network function also uses the same protocol as Panasonic projectors, so other video devices can be combined to upgrade the system.

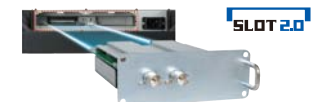
*1: Unified standards for a telecommunications protocol for operating and managing multiple projectors.

• When using the network function, be sure to set "Control I/F Select" in "Network Setup" to "LAN."



A Function Slot Expands the Display's Applications (PF Series)

The "SLOT2.0" function slot lets you add display functions to match your application. By simply mounting an optional function board (sold separately), you can add TV tuner functions and connectivity with a content distribution system.





Model no.		TH-55LFV50
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	54.6-inch (1,387.8 mm)/ 16:9
	Panel Type	IPS/Direct LED
	Effective Display Area (W x H)	47.62" x 26.78" (1,209.6 x 680.4 mm)
	Number of Pixels (H x V)	1,920 x 1,080 pixels
	Brightness	800 cd/m ² (Typ)
	Contrast Ratio	1,400:1
	Response Time	10 ms (G to G)
	Viewing Angle	178°/178°
Touch Screen Panel	—	
TERMINAL	VIDEO In	BNC x 1
	Audio In (L/R)	RCA x 1 set (Shared with Component In)
	Component In	BNC x 3
	Audio In (L/R)	RCA x 1 set (Shared with Video In)
	HDMI In	HDMI Type A Connector x 1
	DVI-D In	DVI-D 24-pin x 1
	Audio In (L/R)	M3 jack x 1 (Shared with PC In)
	DVI-I Out	DVI-I 29-pin x 1
	PC In	Mini D-Sub 15-pin x1 (Female)
	Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)
	Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1 (RS-232C Compatible)
	Audio Out (L/R)	RCA x 1 set
Function Slot	—	
IR Transmitter In/Out	IR x 1/x 1	
LAN Control	RJ45 x 1 (Web Browser Control Only)	
GENERAL	Power Requirements	110-127 V AC, 50 Hz/60 Hz
	Power Consumptions	320 W
	On Mode Average Power Consumption*1	—
	Dimensions (W x H x D)	47.85" x 27.02" x 4.77" (1,215.5 x 686.3 x 121.2 mm)
	Carton Size	61.07" x 38.55" x 17.72" (1,551 x 979 x 450 mm)
	Bezel Width	0.14" (3.4 mm) [Left/Top], 0.08" (1.9 mm) [Right/Bottom]
	Weight	Approx. 79.3 lbs. (36.0 kg)
	Gross Weight	Approx. 105.9 lbs. (48.0 kg)
	External Speaker	8 Ω, 20 W [10 W + 10 W] (10 % THD)
	Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 10 % to 90 % (No Condensation)
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 10 % to 90 % (No Condensation)	
FEATURES	IP Rating	—
	Touch Screen	—
	Failover Input	—
	24/7 Operation	—
	Ceiling-Suspension	—
	Seam Hides Video Off Mode	Yes
	Daisy Chain	Yes
	Input Search	—
	Brightness Sensor	—
	Digital Zoom	—
	Video Wall	Yes (N x M, up to 5 x 5)
	Power on Screen Delay	Yes
	Display ID Control	Yes
	PC/DVI-D Power Management	Yes
	Power Save Mode	—
	Input/Button Lock	—
Remote-control Lock	Yes	
Screen Saver	Yes	
Studio W/B	—	
Winter Mode	—	
Orientation	Landscape/Portrait	

*1: Based on IEC 62087 Ed.2 measurement method.

Super Narrow Bezel with 0.21" (5.3 mm) Thickness (Bezel-to-Bezel)

A super narrow bezel design reduces the width of screen-joining borders to only 0.21" (5.3 mm) in video wall. The borders are hardly visible even in very large-screen configurations, so images are more dynamic and natural.



Conventional Types

LFV50



High 800 cd/m² Brightness and a Wide Viewing Angle

LED LCD panels with a full 800 cd/m² of brightness ensure high visibility even in large public spaces. The IPS system also provides a wide viewing angle.



High visibility means clear and accurate display of information even in bright, open areas.

Low Power Consumption

Highly efficient LED LCD panel provides high-level energy savings. In addition to producing crisp, clear images, they also offer highly uniform brightness when used as a video wall.


Auto-Operation Setting for the Cooling Fan

Heat rises easily to the upper displays during multi-screen use. An internal temperature display lets you check the temperature, and the cooling fan can be set* to automatically operate at high temperatures.

*When set to Auto.

Daisy-Chain Connection

Signals can be distributed to as many as 10 displays from a single DVI input. When ID numbers have been assigned to the displays in advance, any designated display can be operated by a single remote control.



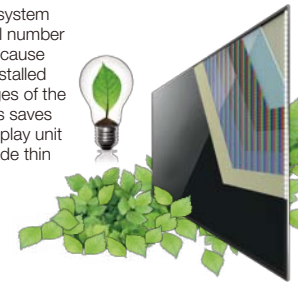
Model no.	TH-80LF50U	TH-70LF50U
Screen Size (Diagonal)/Aspect Ratio	80-inch (2,032 mm)/16:9	70-inch (1,765 mm)/16:9
Panel Type	LED	LED
Effective Display Area (W x H)	69.7" x 39.2" (1,771 x 996 mm)	60.5" x 34.0" (1,538 x 865 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Contrast Ratio	5,000:1	5,000:1
Brightness	700 cd/m ²	700 cd/m ²
Response Time	9 ms (G to G)	9 ms (G to G)
Viewing Angle	178°/178°	178°/178°
Touch Screen Panel	—	—
VIDEO In	BNC x 1	
Audio In (L/R)	RCA x 1 set	
Component/RGB In	BNC x 3	
Audio In (L/R)	RCA x 1 set	
HDMI In	HDMI Type A Connector x 1	
DVI-D In	DVI-D 24-pin x 1	
Audio In (L/R)	M3 jack x 1 (Shared with PC In)	
DVI-D Out	DVI-D 24-pin x 1	
PC In	Mini D-Sub 15-pin x1 (Female)	
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)	
Audio Out (L/R)	RCA x 1 set (Line Out)	
Function Slot	SLOT2.0 x 1	
LAN Control	RJ45 10 BASE-T/100 BASE-TX, Compatible with PjLink™	
Serial In/Out	D-Sub 9-pin x 1/D-Sub 9-pin x 1 (RS-232C Compatible)	
IR Transmitter In/Out	—	
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumptions	Approx. 380 W	Approx. 260 W
On Mode Average Power Consumption*1	—	—
Dimensions (W x H x D)	72.8" x 42.3" x 3.5" (1,848 x 1,073 x 89 mm)	63.2" x 36.7" x 3.5" (1,604 x 931 x 89 mm)
Carton Size	78.6" x 46.9" x 13.8" (1,995 x 1,191 x 351 mm)	69.0" x 41.3" x 13.8" (1,752 x 1,050 x 351 mm)
Bezel Width	1.4" (36 mm)	1.2" (30 mm)
Weight	Approx. 132.3 lbs. (60.0 kg)	Approx. 103.6 lbs. (47.0 kg)
Gross Weight	Approx. 156.5 lbs. (71.0 kg)	Approx. 123.5 lbs. (56.0 kg)
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (No Condensation)	
Storage Environment*2	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (No Condensation)	
IP Rating	—	—
Touch Screen Panel	—	—
Failover Input	—	—
24/7 Operation	Yes	Yes
Ceiling-Suspension	Yes	Yes
Daisy Chain	Yes	Yes
Input Search	Yes	Yes
Auto Set Up	—	—
Brightness Sensor	—	—
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	—
Display ID Control	—	—
PC/DVI-D Power Management	Yes	Yes
Power Save Mode	—	—
Input/Button Lock	Yes	Yes
Remote-control User Level Setting	Yes	Yes
Screen Saver	Yes	Yes
Studio W/B	—	—
Winter Mode	—	—
Orientation	Landscape/Portrait	Landscape/Portrait

*1: Based on IEC 62087 Ed.2 measurement method.

*2: If the temperature is 104 °F to 140 °F (40 °C to 60 °C), please keep in humidity 20 % to 40 %.

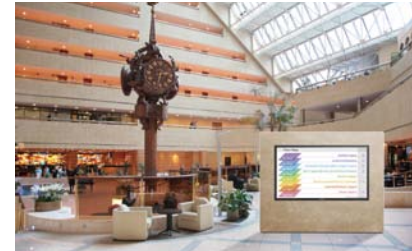
Edge Light System Used for Backlighting

The edge light system requires a small number of LED units because the lights are installed only on the edges of the LCD panel. This saves energy. The display unit can also be made thin and light.



Large-Screen, High-Brightness

High 700-cd/m² brightness and 5,000:1 contrast ensure excellent, eye-catching visibility even in large public spaces. This greatly increases the promotional value for signage use.



Fan-less Design

The fan-less design prevents malfunctions otherwise caused by dust particles brought in by the fan. This enables safe installation in crowded areas.

A Slim Design that Fits almost any Installation Location

The display can be installed in a permanent hanging position using eyebolts. Wall-mount brackets and hanging fixtures in compliance with VESA specifications can also be used for flexible installation.

24/7 Operation

The tough design makes the display panel suitable for use as signage that operates all day and night in places such as restaurants, shopping malls and transportation facilities.



Protective Glass (Optional)

Since the protective glass fits inside the bezel, the external dimensions remain virtually the same. The glass protects the LCD panel surface so the display can be installed in busy public areas.

Stylish Slim and Lightweight

A simple design with a slim bezel of approximately 1.2" (30 mm) (70") and thickness of only 3.5" (89 mm) facilitates signage applications by enabling installation just about anywhere.





Model no.		TH-47LFX6U
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	46.9-inch (1,192 mm)/16:9
	Panel Type	IPS/CCFL
	Effective Display Area (W x H)	40.9" x 23.0" (1,039 x 584 mm)
	Number of Pixels (H x V)	1,920 x 1,080 pixels
	Brightness	1,000cd/m ² (Typ)
	Contrast Ratio	1,200:1
	Response Time	—
	Viewing Angle	178°/178°
	Touch Screen Panel	—
	VIDEO In	—
TERMINAL	Audio In (L/R)	—
	HDMI In	HDMI Type A Connector x 1
	Component/RGB In	—
	Audio In (L/R)	—
	DVI-D In	DVI-D 24-pin x 1
	Audio In (L/R)	M3 Jack x 1 (Shared with PC In)
	PC In	Mini D-Sub 15-pin x1
	Audio In (L/R)	M3 Jack x 1 (Shared with DVI-D In)
	Audio Out (L/R)	RCA x 1 set (Line Out)
	DIGITAL LINK	RJ45 x 1 (Shared with DIGITAL LINK)
GENERAL	Serial	D-Sub 9-pin x 1, RS-232C Compatible
	LAN	RJ45 x 1 (Shared with DIGITAL LINK)
	Function Slot	—
	Power Requirements	AC 110-127 V, 50 Hz/60 Hz
	Power Consumptions	370 W
	On Mode Average Power Consumption*1	—
	Dimensions (W x H x D)	45.8" x 27.8" x 8.5" (1,162 x 706 x 216 mm)
	Carton Size	51.5" x 33.5" x 12.7" (1,308 x 851 x 323 mm)
	Weight	Approx. 109.1 lbs. (49.5 kg)
	Gross Weight	Approx. 123.5 lbs. (56.0 kg)
FEATURES	Built-in Speakers	—
	Operating Environment	Temperature: -4 °F*2 to 104 °F (-20 °C*2 to 40 °C), Humidity: 20 % to 80 % (Non Condensation)
	Storage Environment	Temperature: -4 °F to 104 °F (-20 °C to 60 °C), Humidity: 20 % to 80 % (Non Condensation)
	IP Rating	IP44
	Touch Screen	—
	Failover Input	Yes
	Input Search	—
	Auto Set Up	—
	Brightness Sensor	Yes
	Digital Zoom	Yes
Video Wall	Yes (N x M, up to 5 x 5)	
Power on Screen Delay	Yes	
Display ID Control	Yes	
PC/DVI-D Power Management	On/Off/Sensor	
Power Save Mode	—	
Input/Button Lock	Yes	
Remote-control User Level Setting	Yes	
Screen Saver	Yes	
Studio W/B	—	
Outdoor Mode	Yes	
Orientation	Landscape/Portrait	

*1: Based on IEC 62087 Ed.2 measurement method.
*2: When using outdoor mode.

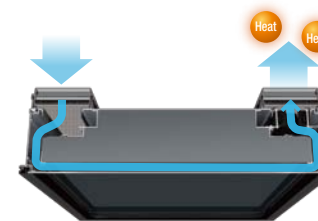
High Brightness (1,000 cd/m²) for Easy-to-See Images Even in Sunlight

Images are clear even in brightly lit places. Full 1,000 cd/m² brightness maintains excellent visibility under direct sunlight. This makes the LFX ideal for installation in drive-through lanes. And because the brightness isn't affected by external light, information such as menu items and prices remain clear and easy to read.



Forced Air-Cooling System for Blackout Prevention

Outside air is brought into the cabinet to produce an airflow between the front glass and the LCD panel. This suppresses internal temperature rises and prevents blackouts when the display is installed outdoors. It also serves as a countermeasure against condensation.



Dustproof and Water Resistance Performance — Ideal for Outdoor Installation

IP44 level dustproof and water resistance performance enables use even in outdoor and other severe environments.

IP-44

Level of protection from dust particles		Level of water resistance	
Level	Degree of Protection	Level	Degree of Protection
4	Protection from solid bodies greater than 0.04" (1 mm) in diameter	4	Protection from water splashing (in both vertical and horizontal directions)

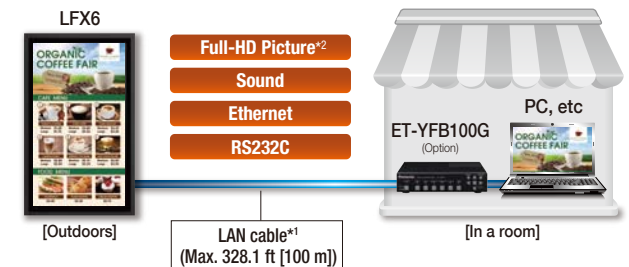
Aluminum Cabinet and Tempered Glass Adoption

The aluminum cabinet strongly resists corrosion. In addition, tempered glass ensures rugged strength against impacts.



DIGITAL LINK for Transmission of Video, Audio and Control Signals for up to 328.1 ft [100 m] with a Single LAN Cable

Only a single LAN cable*1 is required to transmit uncompressed HD video, audio and control signals for a distance of up to 328.1 ft [100 m]. This enables indoor installation of the PC and other devices connected to the display at an outdoor location in order to protect the PC and devices from rain and dust. Since only one cable needs to be connected between the PC and panel, cable routing work is quick and easy. Because a control signal can also be sent simultaneously, it is easy to upgrade the system by combining it with the optional ET-YFB100G Digital Interface Box.



*1: Use an STP cable of CAT5e or higher.
*2: WUXGA (1,920 x 1,200 pixels) compatible.



Versatile Functions for Public Information Displays

In addition to the high resolution of Full-HD and the wide viewing angle of the IPS panel, the LF Series features high brightness and 9-ms response. This makes it possible to display crisp, clear images even in bright places, for signage with excellent information transmission performance.



Stylish Design

The bezel on LF Series (42") is only 0.72-inch (18.3 mm) wide (0.73-inch (18.6 mm on 47").



Capable of Continuous, 24-Hour Operation*
(LF5 Series)

This enables continuous, stable, 24-hour operation. It also makes this display ideal for signage use in public spaces such as airports and train stations.

* Continuous 24-hour operation may cause image retention or other problems in the LCD screen, depending on the display content.

Input Search Function
(LF5 Series)

If the input signal is not detected for some reason, another input with a signal is automatically selected for reliable operation. The display will not remain in a no-signal condition, making it well suited to signage use that produces advertising revenue.

Model no.	TH-47LF5U	TH-42LF5U	TH-47LF30U	TH-42LF30U
DISPLAY				
Screen Size (Diagonal)/Aspect Ratio	46.9-inch (1,192 mm)/16:9	42.0-inch (1,067 mm)/16:9	46.9-inch (1,192 mm)/16:9	42.0-inch (1,067 mm)/16:9
Panel Type	IPS/CCFL	IPS/CCFL	IPS/CCFL	IPS/CCFL
Effective Display Area (W x H)	40.9" x 23.0" (1,039 x 584 mm)	36.6" x 20.6" (930 x 523 mm)	40.9" x 23.0" (1,039 x 584 mm)	36.6" x 20.6" (930 x 523 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Brightness	500 cd/m ²	500 cd/m ²	700 cd/m ²	700 cd/m ²
Contrast Ratio	1,200:1	1,200:1	1,200:1	1,200:1
Response Time	9 ms (G to G)	9 ms (G to G)	9 ms (G to G)	9 ms (G to G)
Viewing Angle	178°/178°	178°/178°	178°/178°	178°/178°
Touch Screen Panel	—	—	—	—
TERMINAL				
VIDEO In	—	—	BNC x 1	BNC x 1
Audio In (L/R)	—	—	RCA x 1 set	RCA x 1 set
HDMI In	HDMI Type A Connector x 1	—	HDMI Type A Connector x 2	HDMI Type A Connector x 2
Component/RGB In	—	—	BNC x 3	BNC x 3
Audio In (L/R)	—	—	RCA x 1 set	RCA x 1 set
DVI-D In	DVI-D 24-pin x 1	—	DVI-D 24-pin x 1	DVI-D 24-pin x 1
Audio In (L/R)	M3 jack x 1 (Shared with PC In)	—	M3 jack x 1 (Shared with PC In)	M3 jack x 1 (Shared with PC In)
DVI-D Out	—	—	DVI-D 24-pin x 1	DVI-D 24-pin x 1
PC In	Mini D-Sub 15-pin x 1	—	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)	Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)
Audio In (L/R)	M3 jack x 1 (Shared with DVI-D In)	—	M3 jack x 1 (Shared with DVI-D In)	M3 jack x 1 (Shared with DVI-D In)
Audio Out (L/R)	RCA x 1 (Line out)	—	—	—
Serial	D-Sub 9-pin x 1 (Serial In), RS-232C Compatible	—	D-Sub 9-pin x 1 (Serial In/Out), RS-232C Compatible	D-Sub 9-pin x 1 (Serial In/Out), RS-232C Compatible
Function Slot	—	—	Yes (SLOT2.0)	Yes (SLOT2.0)
GENERAL				
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumptions	300 W	260 W	350 W	300 W
On Mode Average Power Consumption ^{*1}	Approx. 190 W	Approx. 135 W	Approx. 215 W	Approx. 199 W
Dimensions (W x H x D)	42.5" x 24.6" x 4.6" (1,079 x 624 x 117 mm)	38.2" x 22.1" x 4.6" (968 x 561 x 116 mm)	42.5" x 24.6" x 4.6" (1,079 x 624 x 117 mm)	38.2" x 22.1" x 4.6" (968 x 561 x 116 mm)
Carton Size	47.8" x 30.4" x 10.0" (1,212 x 770 x 254 mm)	43.4" x 27.9" x 8.9" (1,101 x 707 x 224 mm)	47.8" x 30.4" x 10.0" (1,212 x 770 x 254 mm)	43.4" x 27.9" x 8.9" (1,101 x 707 x 224 mm)
Weight	Approx. 54.1 lbs. (24.5 kg)	Approx. 44.1 lbs. (20.0 kg)	Approx. 55.2 lbs. (25.0 kg)	Approx. 46.3 lbs. (21.0 kg)
Gross Weight	Approx. 64.0 lbs. (29.0 kg)	Approx. 53.0 lbs. (24.0 kg)	Approx. 68.4 lbs. (31.0 kg)	Approx. 57.4 lbs. (26.0 kg)
Built-in Speakers	—	—	8 Ω, 10 W [5 W + 5 W] (10 %THD)	8 Ω, 10 W [5 W + 5 W] (10 %THD)
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	—	Temperature : 32 °F to 104 °F (0 °C to 40 °C), Humidity : 20 % to 80 % (Non condensation)	Temperature : 32 °F to 104 °F (0 °C to 40 °C), Humidity : 20 % to 80 % (Non condensation)
Storage Environment ^{*2}	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	—	Temperature : -4 °F to 140 °F (-20 °C to 60 °C), Humidity : 20 % to 90 % (Non condensation)	Temperature : -4 °F to 140 °F (-20 °C to 60 °C), Humidity : 20 % to 90 % (Non condensation)
FEATURES				
IP Rating	—	—	—	—
Touch Screen	—	—	—	—
Failover Input	Yes	Yes	Yes	Yes
24/7 Operation	Yes	Yes	—	—
Input Search	Yes	Yes	—	—
Auto Set Up	—	—	—	—
Brightness Sensor	Yes	Yes	Yes	Yes
Digital Zoom	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)	Yes (x 1 - x 4)
Video Wall	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)	Yes (N x M, up to 5 x 5)
Power on Screen Delay	Yes	Yes	Yes	Yes
Display ID Control	Yes	Yes	Yes	Yes
PC/DVI-D Power Management	Yes	Yes	Yes	Yes
Power Save Mode	Yes	Yes	—	—
Input/Button Lock	Yes	Yes	Yes	Yes
Remote-control User Level Setting	Yes	Yes	Yes	Yes
Screen Saver	Yes	Yes	Yes	Yes
Studio W/B	Yes	Yes	Yes	Yes
Winter Mode	—	—	—	—
Orientation	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait

*1: Based on IEC 62087 Ed.2 measurement method.

*2: If the temperature is 104 °F to 140 °F (40 °C to 60 °C), please keep in humidity 20 % to 40 %.



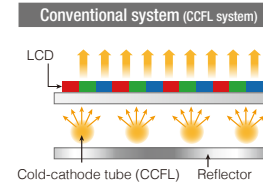
Model no.	TH-50LFE6U	TH-42LFE6U
Screen Size (Diagonal)/Aspect Ratio	50-inch (1,257 mm)/16:9	42-inch (1,067 mm)/16:9
Panel Type	MVA/ E-LED	MVA/ E-LED
Effective Display Area (W x H)	43.1" x 24.2" (1,095 x 616 mm)	36.6" x 20.5" (930 x 523 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels
Brightness	350 cd/m ²	350 cd/m ²
Contrast Ratio	5,000:1	5,000:1
Response Time	9.5 ms (G to G)	9.5 ms (G to G)
Viewing Angle	176°/176°	176°/176°
Touch Screen Panel	—	—
VIDEO In	—	—
Audio In (L/R)	—	—
HDMI In	HDMI Type A Connector x 1	HDMI Type A Connector x 1
Component/RGB In	—	—
Audio In (L/R)	—	—
DVI-D In	DVI-D 24-pin x 1	DVI-D 24-pin x 1
Audio In (L/R)	M3 Jack x 1 (Shared with PC In)	M3 Jack x 1 (Shared with PC In)
DVI-D Out	—	—
PC In	Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)
Audio In (L/R)	M3 Jack x 1 (Shared with DVI-D In)	M3 Jack x 1 (Shared with DVI-D In)
Audio Out	M3 Jack x 1 (Line Out)	M3 Jack x 1 (Line Out)
Serial	D-Sub 9-pin x 1, RS-232C Compatible	D-Sub 9-pin x 1, RS-232C Compatible
LAN	RJ45 x 1 10 BASE-T/100 BASE-TX	RJ45 x 1 10 BASE-T/100 BASE-TX
Power Requirements	AC 110-127 V, 50 Hz/60 Hz	AC 110-127 V, 50 Hz/60 Hz
Power Consumptions	T.B.D.	T.B.D.
On Mode Average Power Consumption ^{*1}	T.B.D.	T.B.D.
Dimensions (W x H x D)	44.2" x 25.8" x 2.0" (1,121 x 655 x 49 mm) (T.B.D.)	37.7" x 22.2" x 2.0" (957 x 564 x 49 mm) (T.B.D.)
Carton Size	T.B.D.	T.B.D.
Bezel Width	0.4" (9.0 mm) (Left/Right/Top), 0.4" (10 mm) (Bottom)	0.4" (9.0 mm) (Left/Right/Top), 0.4" (10 mm) (Bottom)
Weight	Approx. 39.7 lbs. (18.0 kg)	Approx. 29.8 lbs. (13.5 kg)
Gross Weight	Approx. 48.5 lbs. (22.0 kg)	Approx. 37.5 lbs. (17.0 kg)
Built-in Speakers	10 W [5 W + 5 W]	10 W [5 W + 5 W]
Operating Environment	Temperature: 32 °F to 104 °F (0 °C to 40 °C), Humidity: 20 % to 80 % (Non condensation)	
Storage Environment ^{*2}	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	
IP Rating	—	—
Touch Screen	—	—
Failover Input	—	—
24/7 Operation	—	—
Ceiling-Suspension	—	—
Seam Hides Video Off Mode	Yes	Yes
Daisy Chain	—	—
Input Search	Yes	Yes
Brightness Sensor	Yes	Yes
Digital Zoom	Yes	Yes
Video Wall	Yes	Yes
Power on Screen Delay	Yes	Yes
Display ID Control	Yes	Yes
PC/DVI-D Power Management	Yes	Yes
Power Save Mode	Yes	Yes
Input/Button Lock	Yes	Yes
Remote-control Lock	Yes	Yes
Screen Saver	Yes	Yes
Studio W/B	Yes	Yes
Winter Mode	—	—
Orientation	Landscape	Landscape

*1: Based on IEC 62087 Ed.2 measurement method.

*2: If the temperature is 40 °C to 60 °C, please keep in humidity 20 % to 40 %.

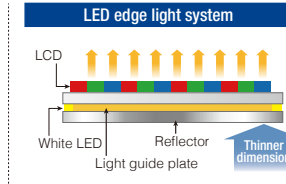
LED backlight provide light weight, a thin profile, and low power consumption

Detailed Full-HD picture quality and the beautiful images in large spaces. The use of an LED backlight allows signage to be used for long periods with excellent visibility and low power consumption, to help reduce running costs.



Cold-cathode tube (CCFL) Reflector

The CCFL system requires the installation of multiple tubes that illuminate in the same way as fluorescent lamps behind the LCD panel. Thus, the display unit becomes thick.



White LED Reflector Light guide plate Thinner dimension

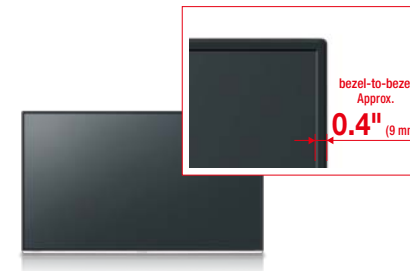
The edge light system requires a small number of LED units because the lights are installed only on the edges of the LCD panel. This saves energy. The display unit can also be made thin and light.



Text and intricate patterns are crisply displayed.

A stylish design with large screen and narrow 0.4" (9 mm) bezel

The stylish design combines a 0.4" (9 mm) bezel and a depth of only 1.9" (49 mm). There is less visual bulk, so the display seems to blend into its surroundings. This makes the image stand out even more, for greater, eye-catching visibility.



Standard-equipped input/output terminals for signage use

The input/output terminals (HDMI, DVI-D, PC-IN) and control terminals (RS232C, LAN) needed for signage use are provided as standard equipment.



Built-in Speaker

The speaker is built into the rear of the display. There is no need for external speakers when using content that has a soundtrack.





Model no.	TH-65LRU60	TH-50LRU60	TH-42LRU60	TH-39LRU60	TH-32LRU60
DISPLAY					
Screen Size (Diagonal)/Aspect Ratio	64.5-inch/16:9	49.5-inch/16:9	41.9-inch/16:9	38.5-inch/16:9	31.5-inch/16:9
Panel	1080p (WSXGA)/ Edge-lit LED	1080p (WSXGA)/LED	1080p (WSXGA)/LED	1080p (WSXGA)/LED	720p (WXGA)/LED
Effective Display Area (W x H)	56.2" x 31.6" (1,428 x 804 mm)	43.1" x 24.3" (1,096 x 616 mm)	36.5" x 20.5" (928 x 522 mm)	32.6" x 18.9" (854 x 480 mm)	27.5" x 15.4" (698 x 392 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,366 x 768 pixel
Back Light	E-LED	D-LED	D-LED	D-LED	D-LED
Panel Life	Approx. 50,000 hours	Approx. 60,000 hours	Approx. 60,000 hours	Approx. 60,000 hours	Approx. 60,000 hours
RECEIVING SYSTEM					
ATSC/NTSC/QAM	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135
FTG HD Support	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by USB Memory	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by USB Memory	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by USB Memory	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by USB Memory	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by USB Memory
VIDEO					
VIDEO Codec	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264
TERMINAL					
RF In (Antenna/Cable)	1	1	1	1	1
VIDEO In	RCA x 1 (Rear [Share with Component]), RCA x 1 (Side)	RCA x 1 (Rear), RCA x 1 (Side)	RCA x 1 (Rear), RCA x 1 (Side)	RCA x 1 (Rear), RCA x 1 (Side)	RCA x 1 (Rear), RCA x 1 (Side)
Audio In (L/R)	RCA x 1 (Rear [Share with Component]), RCA x 1 (Side)	RCA x 1 (Rear [Share with Component]), x 1 (Side)	RCA x 1 (Rear [Share with Component]), x 1 (Side)	RCA x 1 (Rear [Share with Component]), x 1 (Side)	RCA x 1 (Rear [Share with Component]), x 1 (Side)
Component Video In	RCA x 1 (Y Pb Pr) (Rear [Share with Video])	RCA x 1 (Y Pb Pr) (Rear)	RCA x 1 (Y Pb Pr) (Rear)	RCA x 1 (Y Pb Pr) (Rear)	RCA x 1 (Y Pb Pr) (Rear [Share with Video])
Audio In (L/R)	RCA x 1 (Rear [Share with Video])	RCA x 1 (Rear)	RCA x 1 (Rear)	RCA x 1 (Rear)	RCA x 1 (Rear)
HDMI In	HDMI Type A Connector x 2 (Rear), x 1 (side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)
PC In	Mini D-Sub 15-pin x 1 (Female, Rear)	Mini D-Sub 15-pin x 1 (Female, Rear)	Mini D-Sub 15-pin x 1 (Female, Rear)	Mini D-Sub 15-pin x 1 (Female, Rear)	Mini D-Sub 15-pin x 1 (Female, Rear)
Audio In (L/R)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)
Audio Out (Digital/SPDIF)	Optical x 1 (Rear)	Optical x 1 (Rear)	Optical x 1 (Rear)	—	—
Audio Out (Analog L/R)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)
USB Memory Slot	1	1	1	1	1
DATA/MTI	RJ11 (6-pin) x 1 (Rear) (Compatible with LodgeNet Game Controller)				
Serial	M3 jack x 1 (Rear), RS232C	M3 jack x 1 (Rear), RS232C	M3 jack x 1 (Rear), RS232C	M3 jack x 1 (Rear), RS232C	M3 jack x 1 (Rear), RS232C
GENERAL					
Power Requirements	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz
Power Consumptions	170 W	125 W	105 W	80 W	60 W
On Mode Average Power Consumption*1	58.5 W	48.2 W	41.3 W	34.3 W	25.4 W
Stand-by Power	Under 1.0 W	Under 1.0 W	Under 1.0 W	Under 1.0 W	Under 1.0 W
Dimensions (Including TV Stand (W x H x D))	57.5" x 35.6" x 13.2" (1,459 x 902 x 333 mm)	45.0" x 29.1" x 11.1" (1,141 x 739 x 280 mm)	38.3" x 26.1" x 9.0" (972 x 662 x 227 mm)	35.3" x 24.4" x 9.0" (896 x 618 x 227 mm)	29.2" x 21.3" x 7.3" (741 x 539 x 183 mm)
Carton Size	68.9" x 37.3" x 8.8" (1,750 x 946 x 223 mm)	58.1" x 29.8" x 6.2" (1,474 x 756 x 156 mm)	48.9" x 26.3" x 5.6" (1,242 x 668 x 142 mm)	46.0" x 24.6" x 5.6" (1,166 x 623 x 142 mm)	37.4" x 21.7" x 5.4" (948 x 549 x 136 mm)
Weight (Including TV Stand)	Approx. 82.7 lbs. (37.5 kg)	Approx. 41.9 lbs. (19.0 kg)	Approx. 27.8 lbs. (12.6 kg)	Approx. 23.4 lbs. (10.6 kg)	Approx. 19.9 lbs. (9.0 kg)
Gross Weight	Approx. 101.5 lbs. (46.0 kg)	Approx. 50.7 lbs. (23.0 kg)	Approx. 39.7 lbs. (18.0 kg)	Approx. 33.1 lbs. (15.0 kg)	Approx. 26.5 lbs. (12.0 kg)
Audio Output Power	10 W + 10 W (10 % THD)	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)	5 W + 5 W (10 %THD)
Invisible Speaker System Details	1 Way 2 Bottom Speakers	1 Way 2 Bottom Speakers	1 Way 2 Bottom Speakers	1 Way 2 Bottom Speakers	1 Way 2 Bottom Speakers
Operating Environment	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)				
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)				
FEATURES					
Energy Star 6.0 CEC	Yes	Yes	Yes	Yes	Yes
Intelligent Scene Controller (C.A.T.S.*2 for Hotel)	Yes	Yes	Yes	Yes	Yes
VIERA Link™, HDAVI Control™	Yes	Yes	Yes	Yes	Yes
Integrated Pro:Idiom®	Yes	Yes	Yes	Yes	Yes
Local Authentication	Yes	Yes	Yes	Yes	Yes
Welcome Image	Yes	Yes	Yes	Yes	Yes
USB Memory Slot	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning
Off Timer	15/30/60/90 minutes	15/30/60/90 minutes	15/30/60/90 minutes	15/30/60/90 minutes	15/30/60/90 minutes
Hotel Mode	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control				
Sound System Type	AV Surround	AV Surround	AV Surround	AV Surround	AV Surround
Bass/Treble/Balance Controls	Yes	Yes	Yes	Yes	Yes
Swivel Stand	Not Support the Rotate Stand	Rotate Angle 15 degree	Rotate Angle 30/60/90 degree	Rotate Angle 30/60/90 degree	Rotate Angle 30/60/90 degree
AC Power Cable	AC Power Cable 90.6" (2.3 m)	AC Power Cable 90.6" (2.3 m)	AC Power Cable 90.6" (2.3 m)	AC Power Cable 90.6" (2.3 m)	AC Power Cable 90.6" (2.3 m)
Antitheft Screw for Stand	—	Yes	Yes	Yes	Yes
Security Lockdown Screws	—	Yes	Yes	Yes	Yes
Pitch for Wall-Hanging	VESA Compliant W 400 x H 400 mm	VESA Compliant W 400 x H 400 mm	VESA Compliant W 200 x H 200 mm	VESA Compliant W 200 x H 200 mm	VESA Compliant W 200 x H 100 mm

*1: Based on IEC 62087 Ed.2 section 11.6.1 measurement method.

*2: Contrast Automatic Tracking System

A Built-in Digital Tuner (with Pro:Idiom®*) for Easy TV Installation

A built-in digital tuner with Pro:Idiom® compatibility provides strong support for both PPV (Pay-per-View) and FTG (Free-to-Guest) premium HD content.

*Pro:Idiom® is a registered trademark of the Zenith Electronics Corp.



Elegantly Designed in a Wide Range of Sizes

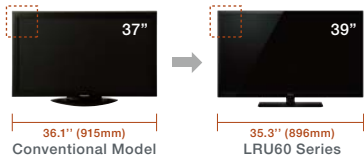
The LRU60 Series line-up features a wide range of sizes, including an ultra-thin 65" model. So in addition to guest rooms, its elegant design blends in beautifully in larger suites, lounges or in public areas, such as lobbies and restaurants.



Modern, slim-bezel design

This space-saving design allows you to replace older models with a larger screen size without taking up more space.

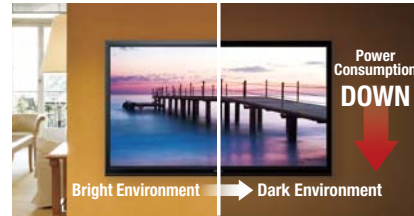
Space-saving design



C.A.T.S.* Automatically Adjusts the Image Quality for Each Room Based on Ergonomics, While Saving Energy

The LRU Series' built-in ambient light sensor (C.A.T.S.) automatically adjusts the television's screen brightness and contrast to suit the lighting of the room. This not only optimizes picture performance, but it also helps keep power consumption low.

*Contrast Automatic Tracking System



LRU C.A.T.S.

C.A.T.S. maintains brightness levels and optimizes image quality while reducing power consumption.

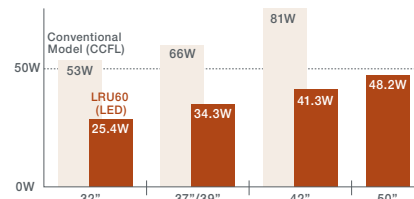
Advanced LED Design Reduces Power Consumption and Lowers Costs

LED backlight system

The LED backlight consumes only about half the power of a conventional fluorescent type. This high energy-saving performance significantly reduces the running cost.

Power consumption Reduced about 50%

Difference in power consumption between CCFL and LED TVs [On mode Average Power Consumption]

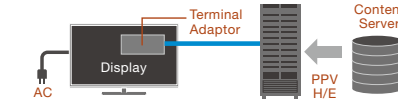


A Built-in Terminal Adaptor for Easy TV Installation

The LodgeNet PPV terminal adaptor (b-LAN™) is built into the TV to save space, and installation is further simplified because there are no cables to connect other than the coax feed. Also compatible with other PPV systems via an integrated MTI.

*b-LAN is a trademark of LodgeNet Interactive Corp.

System Configuration



Compatible Head-end Systems*



*Support includes, but is not only limited to, these systems.

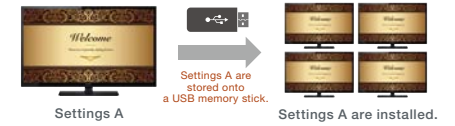
Centralized FTG Channel Management

The optional FMA-PA101 Free-to-Guest Management Appliance available separately is a hotel system server which provides centralized and remotely-accessible channel management of all SD, HD and Pro:Idiom-encrypted content, including the "first-up" channel. This eliminates the need for guest room visits for programming channel lineups during install or for any subsequent additions/changes made to the lineup at a later time.



USB Cloning

When adding TVs, the TV settings can be copied into USB/SD memory and easily installed into the new models. This also helps to reduce costs by shortening the installation time.



Also ideal for setting up the welcome image and hotel guide.

Local Authentication

The data required for Pro:Idiom decoding is set into each TV via USB memory.



Channel Remap

TV Installer can freely configure 'CH map' of the TV using Excel format. The remapped data can also be cloned, which will drastically ease the burden of the TV installer.

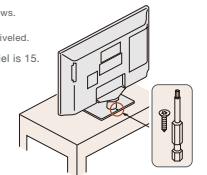


A swivel stand with a security swivel mount

The swivel stand allows the display to be rotated 90° to the left or right to match the viewing angle of the guest. Stops at 30° and 60° can be easily inserted as needed to avoid contact with walls. The pedestal stand can also be secured into place with security screws (bit included) to reduce the risk of theft.

When installing, the base and table of the pedestal are secured by special screws. In addition to reducing the risk of theft, the display also remains stable when swiveled.

*The swivel angle of the 50-inch model is 15°. The 65-inch model does not swivel.





Model no.	TH-55LRU50	TH-42LRU50	TH-37LRU50	TH-32LRU50	
DISPLAY	Screen Size (Diagonal)/Aspect Ratio	55.0-inch/16:9	42.0-inch/16:9	37.0-inch/16:9	31.5-inch/16:9
	Panel	1080p (WSXGA)/ Edge-lit LED	1080p (WSXGA)	1080p (WSXGA)	720p (WXGA)
	Effective Display Area (W x H)	47.6" x 26.7" (1,210 x 680 mm)	36.6" x 20.6" (930 x 523 mm)	32.2" x 28.1" (819 x 460 mm)	27.5" x 15.4" (698 x 392 mm)
	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,366 x 768 pixel
	Brightness	400 cd/m ²	450 cd/m ²	400 cd/m ²	450 cd/m ²
	Panel Life	Approx. 50,000 hours	Approx. 60,000 hours	Approx. 60,000 hours	Approx. 60,000 hours
RECEIVING SYSTEM	Viewing Angle	178°	178°	178°	178°
	ATSC/NTSC/QAM	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135
	FTG HD Support	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by SD Card	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by SD Card	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by SD Card	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by SD Card
VIDEO	VIDEO Codec	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264
	RF In (Antenna/Cable)	1	1	1	1
TERMINAL	VIDEO In	4C-3.5 mm jack x 1 (Rear), x 1 (Side) (Need Adaptor Cable)	RCA x 1 (Rear), RCA x 1 (Side) RCA (L/R) x 1 set (Rear), x 1 set (Side)	RCA x 1 (Rear), RCA x 1 (Side) RCA (L/R) x 1 set (Rear), x 1 set (Side)	RCA x 1 (Rear), RCA x 1 (Side) RCA (L/R) x 1 set (Rear), x 1 set (Side)
	Audio In (L/R)				
	Component Video In	4C-3.5 mm/2.5 mm jack combo x 1 (Rear) (Need Adaptor Cable)	RCA x 1 set (Rear)	RCA x 1 set (Rear)	RCA x 1 set (Rear)
	Audio In (L/R)		RCA x 1 set (Rear)	RCA x 1 set (Rear)	RCA x 1 set (Rear)
	HDMI In	HDMI Type A Connector x 3 (Side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)	HDMI Type A Connector x 2 (Rear), x 1 (Side)
	PC In	Mini D-Sub 15-pin x 1 (Female) (Rear)	Mini D-Sub 15-pin x 1 (Female) (Rear)	Mini D-Sub 15-pin x 1 (Female) (Rear)	Mini D-Sub 15-pin x 1 (Female) (Rear)
	Audio In (L/R)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)
	Audio Out (Digital/SPDIF)	Optical x 1 (Rear)	Optical x 1 (Rear)	Optical x 1 (Rear)	Optical x 1 (Rear)
	Audio Out (Analog)	2.5 mm jack x 1 (Rear) (Need Adaptor Cable)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)
	SD Card slot	1	1	1	1
GENERAL	DATA/MTI	RJ11 (6-pin) x 1 (Rear) (Compatible with LodgeNet Game Controller)	RJ11 (6-pin) x 1 (Rear) (Compatible with LodgeNet Game Controller)	RJ11 (6-pin) x 1 (Rear) (Compatible with LodgeNet Game Controller)	RJ11 (6-pin) x 1 (Rear) (Compatible with LodgeNet Game Controller)
	Serial	3.5mm jack x 1 (Rear), RS232C	3.5 mm jack x 1 (Rear), RS232C	3.5 mm jack x 1 (Rear), RS232C	3.5 mm jack x 1 (Rear), RS232C
	Power Requirements	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz
	Power Consumptions	155 W	205 W	165 W	115 W
	On Mode Average Power Consumption*1	Approx. 82 W	Approx. 81 W	Approx. 66 W	Approx. 53 W
	Dimensions (Including TV Stand (W x H x D))	50.5" x 32.0" x 11.1" (1,281 x 811 x 282 mm)	40.2" x 26.9" x 12.6" (1,021 x 682 x 318 mm)	36.1" x 24.5" x 12.1" (915 x 622 x 307 mm)	31.5" x 21.8" x 10.8" (798 x 553 x 272 mm)
	Carton Size	64.9" x 34.4" x 6.2" (1,647 x 872 x 156 mm)	52.0" x 29.3" x 9.1" (1,321 x 743 x 229 mm)	48.3" x 26.1" x 7.5" (1,255 x 662 x 190 mm)	40.6" x 23.7" x 7.6" (1,030 x 602 x 193 mm)
	Weight (Including TV Stand)	Approx. 60.6 lbs. (27.5 kg)	Approx. 47.7 lbs. (21.6 kg)	Approx. 36.9 lbs. (16.7 kg)	Approx. 27.6 lbs. (12.5 kg)
	Gross Weight	Approx. 77.2 lbs. (35.0 kg)	Approx. 61.9 lbs. (28.0 kg)	Approx. 46.3 lbs. (21.0 kg)	Approx. 35.3 lbs. (16.0 kg)
	Audio Output Power	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)
Operating Environment	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	
FEATURES	Intelligent Scene Controller	Yes	Yes	Yes	Yes
	VIERA Link™, HDAVI Control™	Yes	Yes	Yes	Yes
	Fast Boot	Yes	Yes	Yes	Yes
	Integrated Pro:Idiom®	Yes	Yes	Yes	Yes
	Local Authentication	Yes	Yes	Yes	Yes
	Welcome Image	Yes	Yes	Yes	Yes
	SD Card Slot	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning
	Off Timer	15/30/60/90 minutes	15/30/60/90 minutes	15/30/60/90 minutes	15/30/60/90 minutes
	Hotel Mode	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control
	Sound System Type	AV Surround	AV Surround	AV Surround	AV Surround
	Bass/Treble/Balance Controls	Yes	Yes	Yes	Yes
	Auto Set Up	—	—	—	—
	Brightness Sensor	—	—	—	—
	Digital Zoom	—	—	—	—
	PC/DVI-D Power Management	—	—	—	—
	Power Save Mode	—	—	—	—
	Screen Saver	—	—	—	—
Orientation	—	—	—	—	
Eco Mode	—	—	—	—	

*1: Based on IEC 62087 Ed.2 section 11.6.1 measurement method.



Model no.	TH-42LRU5	TH-37LRU5	TH-32LRU5
DISPLAY			
Screen Size (Diagonal)/Aspect Ratio	42.0-inch/16:9	37.0-inch/16:9	31.5-inch/16:9
Panel	1080p (WSXGA)	1080p (WSXGA)	(WXGA)
Effective Display Area (W x H)	36.6" x 20.6" (930 x 523 mm)	32.2" x 28.1" (819 x 460 mm)	27.5" x 15.4" (698 x 392 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,366 x 768 pixel
Brightness	450 cd/m ²	400 cd/m ²	450 cd/m ²
Contrast Ratio	20,000 :1	18,000 :1	18,000 :1
Response Time	7 ms (G to G)	7 ms (G to G)	7 ms (G to G)
Panel Life	Approx. 60,000 hours	Approx. 60,000 hours	Approx. 60,000 hours
Viewing Angle	178°	178°	178°
Touch Screen Panel	—	—	—
RECEIVING SYSTEM			
ATSC/NTSC/QAM	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135
FTG HD Support	Local Authentication by SD Card	Local Authentication by SD Card	Local Authentication by SD Card
VIDEO			
VIDEO Codec	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264
RF In (Antenna/Cable)	1	1	1
VIDEO In	RCA x 1 (Rear)	RCA x 1 (Rear)	RCA x 1 (Rear)
Audio In (L/R)	RCA x 1 set (Rear)	RCA x 1 set (Rear)	RCA x 1 set (Rear)
Component Video In	RCA x 1 set (Rear)	RCA x 1 set (Rear)	RCA x 1 set (Rear)
Audio In (L/R)	RCA x 1 set (Rear)	RCA x 1 set (Rear)	RCA x 1 set (Rear)
HDMI In	HDMI Type A Connector x 1 (Rear), x 1 (Side)	HDMI Type A Connector x 1 (Rear), x 1 (Side)	HDMI Type A Connector x 1 (Rear), x 1 (Side)
PC In	Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)	Mini D-Sub 15-pin x1 (Female)
Audio In (L/R)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)
Audio Out (Digital/SPDIF)	N/A	N/A	N/A
Audio Out (Analog)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)	3.5 mm jack x 1 (Rear)
SD Card slot	1	1	1
MTI	RJ11 (6-pin) x 1 (Rear)	RJ11 (6-pin) x 1 (Rear)	RJ11 (6-pin) x 1 (Rear)
Serial	N/A	N/A	N/A
TERMINAL			
Power Requirements	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz	110-127 V AC, 60 Hz
Power Consumptions	205 W	165 W	115 W
On Mode Average Power Consumption*1	Approx. 81 W	Approx. 66 W	Approx. 53 W
Dimensions (Including TV Stand (W x H x D))	40.2" x 26.9" x 12.6" (1,021 x 682 x 318 mm)	36.1" x 24.5" x 12.1" (915 x 622 x 307 mm)	31.5" x 21.8" x 10.8" (798 x 553 x 272 mm)
Carton Size	52.0" x 29.3" x 9.1" (1,321 x 743 x 229 mm)	48.3" x 26.1" x 7.5" (1,255 x 662 x 190 mm)	40.6" x 23.7" x 7.6" (1,030 x 602 x 193 mm)
Weight (Including TV Stand)	Approx. 47.7 lbs. (21.6 kg)	Approx. 36.9 lbs. (16.7 kg)	Approx. 27.6 lbs. (12.5 kg)
Gross Weight	Approx. 61.9 lbs. (28.0 kg)	Approx. 46.3 lbs. (21.0 kg)	Approx. 35.3 lbs. (16.0 kg)
Audio Output Power	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)	10 W + 10 W (10 %THD)
Operating Environment	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)
GENERAL			
Intelligent Scene Controller	Yes	Yes	Yes
VIERA Link™, HDAVI Control™	Yes	Yes	Yes
Fast Boot	Yes	Yes	Yes
Integrated Pro:Idiom®	Yes	Yes	Yes
Local Authentication	Yes	Yes	Yes
Welcome Image	Yes	Yes	Yes
SD Card Slot	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning
Off Timer	15/30/60/90 minutes	15/30/60/90 minutes	15/30/60/90 minutes
Hotel Mode	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control
Sound System Type	AV Surround	AV Surround	AV Surround
Bass/Treble/Balance Controls	Yes	Yes	Yes
Auto Set Up	—	—	—
Brightness Sensor	—	—	—
Digital Zoom	—	—	—
PC/DVI-D Power Management	—	—	—
Power Save Mode	—	—	—
Screen Saver	—	—	—
Orientation	—	—	—
Eco Mode	—	—	—
FEATURES			

*1: Based on IEC 62087 Ed.2 section 11.6.1 measurement method.

A Built-in Digital Tuner (with Pro:Idiom®*) for Easy TV Installation

A built-in digital tuner with Pro:Idiom® compatibility provides strong support for both PPV (Pay-per-View) and FTG (Free-to-Guest) premium HD content.

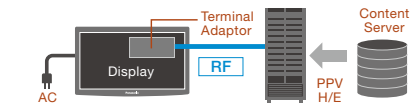
*Pro:Idiom® is a registered trademark of the Zenith Electronics Corp.



A Built-in Terminal Adaptor for Easy TV Installation (LRU50 Series)

The LodeNet PPV terminal adaptor (b-LAN™) is built into the TV to save space, and installation is further simplified because there are no cables to connect other than the coax feed. Also compatible with other PPV systems via an integrated MTI.

System Configuration



Compatible Head-end Systems*



*Support includes, but is not only limited to, these systems.

Cost-cutting efficiency even in smaller hotels

When LRU50/LRU5 displays are installed in smaller hotels, Pro:Idiom® authentication and channel mapping can be done locally using an SD card.

Local Authentication

SD card allows display to receive Pro:Idiom® encrypted content.



Easy Channel Re-Mapping

Channel maps can be updated from data on SD card.





Model no.	TH-42LRH50U	TH-32LRH30U
DISPLAY		
Screen Size (Diagonal)/Aspect Ratio	42.0-inch/16:9	31.5-inch/16:9
Effective Display Area (W x H)	36.6" x 20.6" (930 x 523 mm)	27.5" x 15.4" (698 x 392 mm)
Number of Pixels (H x V)	1,920 x 1,080 pixels	1,366 x 768 pixel
Brightness	450 cd/m ²	450 cd/m ²
Contrast Ratio	20,000 :1	18,000 :1
Response Time	7 ms (G to G)	7 ms (G to G)
Viewing Angle	178°	178°
Touch Screen Panel	—	—
RECEIVING SYSTEM		
ATSC/NTSC/QAM	VHF/UHF: 2 - 69, CATV: 1 - 135	VHF/UHF: 2 - 69, CATV: 1 - 135
FTG HD Support	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by SD card	EBL (Embedded b-LAN) Requires FMA-PA101 or Local Authentication by SD card
VIDEO		
VIDEO Codec	MPEG2, MPEG4/H.264	MPEG2, MPEG4/H.264
RF In (Antenna/Cable)	1	1
VIDEO In	RCA x 1 (Rear)	RCA x 1 (Rear), RCA x 1 (Side)
Audio In (L/R)	RCA x 1 set (Rear)	RCA x 1 set (Rear), x 1 set (Side)
Component/RGB In	RCA x 1 set (Rear)	RCA x 1 set (Rear)
Audio In (L/R)	RCA x 1 set (Rear)	RCA x 1 set (Rear)
HDMI In	HDMI Type A Connector x 1 (Rear), x 1 (Side)	HDMI Type A Connector x 1 (Rear), x 1 (Side)
PC In	Mini D-Sub 15-pin x1 (Female) (Rear)	Mini D-Sub 15-pin x1 (Female) (Rear)
Audio In (L/R)	M3 jack x 1 (Rear)	RCA x 1 set (Rear), shared with VIDEO In 1
Audio Out (Analog L/R)	M3 jack x 1 (Rear)	N/A
SD Card slot	1 (Side)	1 (Side)
DATA/MTI	RJ-11(6-pin) x 1 (Rear) (Compatible with LodgeNet Game Controller)	
Serial	M3 jack x 1 (Rear), RS232C	M3 jack x 1 (Rear), RS232C
Pillow Speaker Interface	M3 jack x 1 (Rear)	M3 jack x 1 (Rear)
GENERAL		
Power Requirements	120 V AC, 60 Hz	110-127 V AC, 60 Hz
Power Consumptions	205 W	106 W
On Mode Average Power Consumption ^{*1}	Approx. 81 W	—
Dimensions (W x H x D)	40.2" x 25.1" x 4.1" (1,021 x 637 x 105 mm)	31.5" x 20.1" x 3.3" (798 x 511 x 83 mm)
Carton Size	45.0" x 29.3" x 9.0" (1,143 x 743 x 229 mm)	40.6" x 23.7" x 7.6" (1,030 x 602 x 193 mm)
Weight	Approx. 38.6 lbs. (17.5 kg)	Approx. 22.0 lbs. (10.0 kg)
Gross Weight	Approx. 50.7 lbs. (23.0 kg)	Approx. 28.7 lbs. (13.0 kg)
Internal Speaker Output	10 W + 10 W (10 %THD)	20 W [10 W + 10 W] (10 %THD)
Operating Environment	Temperature: 32 °F to 95 °F (0 °C to 35 °C), Humidity: 20 % to 80 % (Non condensation)	
Storage Environment	Temperature: -4 °F to 140 °F (-20 °C to 60 °C), Humidity: 20 % to 90 % (Non condensation)	
FEATURES		
Intelligent Scene Controller	Yes	Yes
VIERA Link™, HDAVI Control™	Yes	—
Fast Boot	Yes	—
Integrated Pro:Idiom®	Yes	Yes
Local Authentication	Yes	Yes
Welcome Image	Yes	Yes
Channel Remap	Yes	Yes
SD Card Slot	Image Viewer (JPEG playback) Cloning	Image Viewer (JPEG playback) Cloning
Off Timer	15/30/60/90 minutes	15/30/60/90 minutes
Hospital Mode	Initial INPUT/Initial Channel/Initial VOL level/Maximum VOL level/Button Lock/Power Control	
Sound System Type	AV Surround	AV Surround
Bass/Treble/Balance Controls	Yes	Yes
Auto Set Up	—	—
Brightness Sensor	—	—
Digital Zoom	—	—
PC/DVI-D Power Management	—	—
Power Save Mode	—	—
Screen Saver	—	—
Orientation	—	—
Eco Mode	—	—

*1: Based on IEC 62087 Ed.2 section 11.6.1 measurement method.

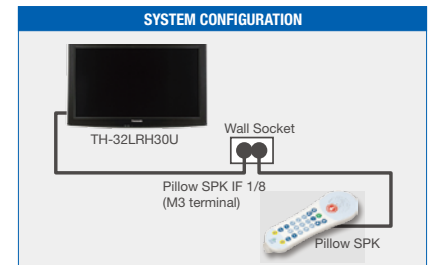
Designed to Meet Healthcare Facility Needs

The LRH Series is a Professional Healthcare-Grade LCD HDTV built for patient room, lobby and waiting room use in hospitals, medical care centers, nursing homes and other healthcare facilities in accordance with UL 60065 Annex Q Safety Requirements.



Fully Compatible with Pillow Speaker

A 1/8-inch M3 terminal jack for a pillow speaker is located on the connector panel. Designed to work with either a digital or a single-button analog (switch-style) pillow speaker, and also supports pillow speakers with a number pad for direct channel access.



Professional Features for Healthcare

Easily wall mounted and provides patients and visitors with a flat screen, high definition viewing experience. The display's SD card slot allows viewing of digital camera images saved on SD Memory Cards, so visitors and medical personnel can easily share pictures.



A Built-in Digital Tuner (with Pro:Idiom®) for Easy TV Installation

A built-in digital tuner with Pro:Idiom® compatibility provides strong support for both PPV (Pay-per-View) and FTG (Free-to-Guest) premium HD content.

* Pro:Idiom® is a registered trademark of the Zenith Electronics Corp.

A Built-in Terminal Adaptor for Easy TV Installation

The LodgeNet PPV terminal adaptor (b-LAN™) is built into the TV to save space, and installation is further simplified because there are no cables to connect other than the coax feed. Also compatible with other PPV systems via an integrated MTI.

(Specifications may change without notice)

		PB1		PB2		VX200		VX300		PF50				LF50		LF30		LFX6
		TH-103PB1U	TH-85PB1U	TH-65PB2U	TH-50PB2U	TH-103VX200U	TH-85VX200U	TH-65VX300U		TH-65PF50U	TH-60PF50U	TH-50PF50U	TH-42PF50U	TH-80LF50U	TH-70LF50U	TH-47LF30U	TH-42LF30U	TH-47LFX6U
		103	85	65	50	103	85	65		65	60	50	42	80	70	47	42	47
HD-SDI	TY-FB9HD	—	—	Yes	Yes	—	—	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—
HD-SDI with Audio	TY-FB10HD	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—
Dual Link HD-SDI	TY-FB11DHD	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—
Dual HD-SDI (with 3D Signal)	TY-FB30DHD3D	—	—	—	—	—	—	Yes		—	—	—	—	—	—	—	—	—
Dual HDMI	TY-FB10HMD	Yes	Yes	Yes	Yes	—	—	Yes		Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
BNC Dual Video	TY-FB9BD	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—
DVI-D	TY-FB11DD	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	—	—	—	—	—
DVI-D (with 3D Signal)	TY-FB30DD3D	—	—	—	—	—	—	Yes		—	—	—	—	—	—	—	—	—
MATE-IF	TY-FB11HB	Yes	Yes	Yes	Yes	—	—	—		Yes	Yes	Yes	Yes	—	—	—	—	—
Plug in PC	PLUGTHA54	Yes	Yes	Yes	Yes	—	—	Yes		Yes	Yes	Yes	Yes	—	—	Yes	Yes	—
Digital Interface Box	ET-YFB100G	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	Yes

Optional Terminal Boards



HD-SDI Terminal Board
TY-FB9HD



HD-SDI Terminal Board with Audio
TY-FB10HD



Dual Link HD-SDI Terminal Board with Audio
TY-FB11DHD



3D-Compatible Dual HD-SDI Terminal Board
TY-FB30DHD3D



Dual HDMI Terminal Board
TY-FB10HMD



BNC Dual Video Terminal Board
TY-FB9BD



DVI-D Terminal Board
TY-FB11DD



3D-Compatible Dual DVI-D Terminal Board
TY-FB30DD3D



MATE-IF Board
TY-FB11HB



Plug in PC
PLUGTHA54



Digital Interface Box
ET-YFB100G