

Panasonic
ideas for life

Professional Displays Lineup Catalogue
2012 Early

2012 Panasonic Professional Displays Full Line-up

PLASMA DISPLAYS

Unmatched Image Performance
Across the Widest Range of Plasma Displays

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LCD DISPLAYS

Clear & Detailed Signage Displays
for Use in Indoor Public Spaces and Outdoors



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4K2K Plasma Display

The world's largest 152-inch screen with 4K2K resolution delivers breathtaking power and realism.



UX1 Series
4K2K Plasma Display

TH-152UX1W **152"**

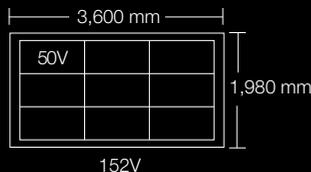
- World's Largest*¹ Plasma Display
- Precise Detail with an Ultra-high Resolution 4K2K Panel
- FULL HD 3D Ready *²

*¹ For a flat-panel display, as of June 9, 2010. According to a Panasonic survey.

*² An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.

A Massive 152-inch Screen

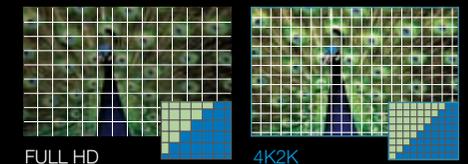
Equivalent to nine 50-inch screens, this huge display immerses the viewer in lifelike actual size images for a one of a kind viewing experience.



4K2K Resolution

This 152-inch plasma panel produces approximately 4 times the amount of information (4,096 x 2,160 pixels) of a full-HD panel (1,920 x 1,080 pixels).

■ 4K2K has four times the detail of full-HD !



FULL HD 3D Plasma Displays

Achieving the ultimate in realism with large-screen FULL HD 3D images. Opening new business possibilities.



VX200 Series

FULL HD 3D Plasma Displays

TH-103VX200W 103"
 TH-85VX200W 85"

VX300 Series

FULL HD 3D Plasma Display

H-65VX300ER 65"



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

High 2D and 3D Image Quality

New fast-switching phosphors reduce conventional afterglow time by 2/3, and ultra-high speed drive technology with high-precision Motion Vector Prediction function minimises double images even on large screens to produce clear, detailed 3D content. A professional-quality engine renders faithful colours.



Blurred 3D image

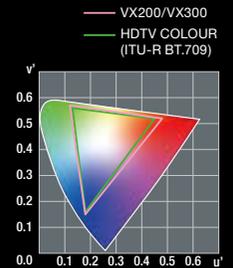


(VX200 Series Panel)
Crisp 3D image

Professional-Level Flexibility

The wide colour gamut approaches the digital cinema range to enable extremely fine colour rendering that was simply not possible with conventional panels. You can also select from various colour gamut types (DIGITAL CINEMA COLOUR/HDTV/EBU/SMPTE-C/CUSTOM/NATIVE)*.

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



FULL HD Plasma Displays

5,000,000:1* contrast and faithful colour reproduction render detailed images over a wide viewing angle.

* 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. (PF30 Series)



PF12 Series

1080p FULL HD Plasma Displays

TH-103PF12E **103"**

TH-85PF12E **85"**



PF30 Series

1080p FULL HD Plasma Displays

TH-65PF30ER **65"** / TH-60PF30ER **60"**

TH-50PF30ER **50"** / TH-42PF30ER **42"**



- High Luminous Efficiency for Crisp, High-Contrast Images
- Function Slot (SLOT2.0) Expands Applications (PF30 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.

FULL HD 3D Ready PF30 Series*

The PF30 Series uses a new 3D compatible plasma panel with fast-switching phosphors that reduce the conventional afterglow time by 2/3. High motion-image resolution produces crisp, clear, fast-moving scenes for both 2D and 3D images without afterimages. Optional Dual HD-SDI and Dual DVI boards also enable simultaneous left/right 3D input to further expand display applications.

* An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.

Professional Expandability

An innovative LAN function gives you external control of the display, while NANODRIFT SAVER* and a host of other functions support various business uses. A combination of video input terminals including HDMI, DVI-D, Component, and PC terminals joined with the function slot provide unmatched flexibility. Optional terminal boards can be mounted supporting a wide range of interfaces including HD-SDI and Dual Link HD-SDI.

* A screensaver that reduces image sticking that otherwise occurs when the same stationary image is displayed for a long period of time.

High Definition Plasma Displays

Superb image performance and a durable, energy-saving design.



NANODRIFT 100,000 Hours

PH30 Series

High Definition Plasma Displays

TH-50PH30ER 50"

TH-42PH30ER 42"



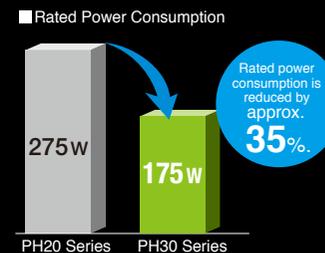
- Energy-Saving Design Greatly Reduces Power Consumption
- Durable Front Glass and a Service Life of Approx. 100,000 Hours*¹
- High Contrast Ratio of 2,000,000:1*²

*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.

*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.

Energy-Saving Design

The higher luminous efficiency of the plasma panel lowers the rated power consumption approximately 35% (for the 42-inch model) compared to the previous Panasonic PH20 Series. The plasma panel also lowers power consumption during dark scenes to achieve an average power consumption* of approximately 150 W (for the 42-inch model) during operation.



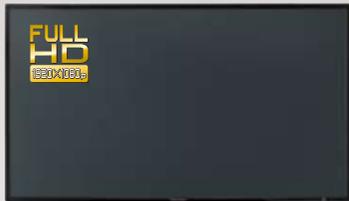
* Based on IEC 62087 Ed.2 measurement method.

High Picture Quality

A native contrast ratio of 2,000,000:1 gives you tight, rich blacks along with breathtaking detail and beauty over a wide viewing angle. High moving-picture resolution ensures crisp motion images.

Full HD Professional LCD Displays

Crisp, Clear Information
Transmission in Public Spaces.



LF25 Series

1080p FULL HD LCD Displays

TH-47LF25ER 47"

TH-42LF25ER 42"



- Full-HD Panel with 500-cd/m² Brightness
- Wide Range of Input Terminals
- Stylish and Slim Energy-Saving Design

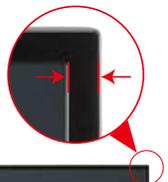
Versatile LCD

This professional LCD panel is designed to support a variety of professional applications. In addition to the wide viewing angle of the IPS panel, the LF25 Series features 500-cd/m² brightness making it possible to display crisp, clear images even in bright places.

Stylish and energy-saving design

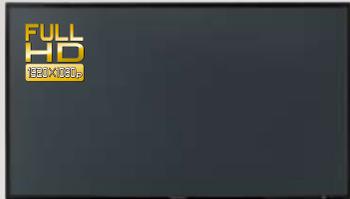
Backlight power consumption is reduced by the ECO mode which detects the ambient light level and controls the brightness of the backlight accordingly. The fanless design also provides dustproof performance and reduces noise. The bezel is only 18.3 mm wide [18.6 mm wide on the TH-47LF25ER] giving greater visibility to the images on display and further enhancing the stylish design.

Narrow Bezel
18.3 mm



Full HD Professional LCD Displays

A High-Brightness, Full-HD LCD
Display with SLOT2.0
for Easy System Expansion.



LF30 Series

1080p FULL HD LCD Displays

TH-47LF30ER 47"

TH-42LF30ER 42"



- Full-HD Panel with 700-cd/m² Brightness - Optimal for Signage Applications
- Wide Range of Input Terminals and SLOT2.0 Compatibility
- Stylish and Slim Energy-Saving Design

Versatile LCD

This liquid crystal display panel strongly resists afterimages to provide the durability that is essential for signage use. In addition to the wide viewing angle of the IPS panel, the LF30 Series features 700-cd/m² brightness making it possible to display crisp, clear images even in bright places.

SLOT2.0 compatibility enhances expandability

The SLOT2.0 function slot on the LF30 Series greatly expands the display's range of applications. It lets you mount an optional function board to suit your application. It also features a variety of input terminals, including DVI-D In/Out and RS-232C In/Out, for connection of displays in a daisy chain configuration for greater operating efficiency.



Weatherproof LCD Displays

IP66-Level Dustproof
and Water Resistant Protection.



LFP30 Series

Weatherproof LCD Displays

TH-47LFP30W **47"**

TH-42LFP30W **42"**



- IP66-Compliant Dustproof and Water Resistant Performance
- Trans-reflective LCD Panel — High Visibility in Bright Places*
- Robust Operation Even Under Adverse Conditions

* Do not mount with LFP30 Series facing direct sunlight.

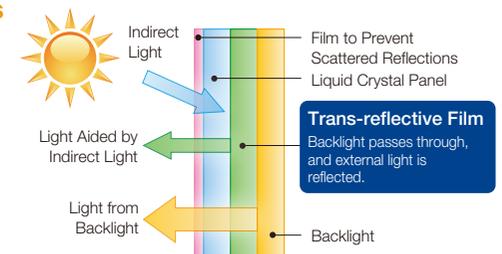
Installable outdoors and in harsh environments

The LFP30 Series complies with the IP66 standard for weather resistance. This means they are protected against strong jets of water, and dust penetration. Winter mode ensures that monitors can be used in temperatures as low as -20 °C. An aluminum cabinet and tempered glass add to their rugged durability.

The trans-reflective LCD panel provides 1,000-cd/m²* of brightness

A trans-reflective LCD panel to produce bright, clear images even in the brightest conditions. These displays are more eco friendly as they consume less power than those that simply raise the intensity of the backlight to achieve an adequate brightness.

*The value under outdoor lighting of approximately 80,000lx.



Outdoor LCD Display

Outdoor-Capable IP53 Compliant LCD Display Featuring Excellent Visibility in Sunlight and Strong Light Resistance.



LFT30 Series

Touch Enabled Outdoor LCD Display

TH-47LFT30W **47"**

LFX30 Series

Outdoor LCD Display

TH-47LFX30W **47"**



- 1,500-cd/m²*1 Brightness — High Visibility in Bright Places
- Robust Operation Even Under Adverse Conditions
- Touch Panel Function*2 for Interactive Signage Use

*1 The value under outdoor lighting of approximately 80,000lx. *2 Only for LFT30 Series.

High 1,500-cd/m² of brightness and a forced-air cooling system enable outdoor use in direct sunlight

A trans-reflective LCD panel uses the indirect light to produce bright, clear images even in the brightest conditions. A forced-air cooling system using outside air allows the panel to withstand internal temperature rises caused by direct sunlight.

- When the panel is mounted facing direct sunlight, the operating temperature must be under 40 °C.

Dustproof and Water Resistant for Outdoor Installation

"Degree of protection IP53" holds considerable dust proofing. It can be installed in dusty environments.



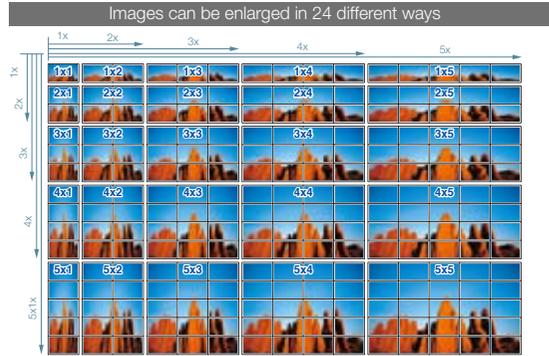
IP-	5	3	Dust Proofing		Water Resistance	
			Level of protection from dust particles		Level of water resistance	
			Level	Degree of Protection	Level	Degree of Protection
			5	Protection from 4 micron dust particles	3	Protection from a water spray

Advanced Functions and Utilities Help Create Effective Signage and Presentations

Display Functions

Multi-Display Function

The Multi-Display function enlarges images up to five times their original size, both vertically and horizontally. It enlarges images by the same zoom ratio in both vertical and horizontal directions, such as 2x2, 3x3, 4x4 and 5x5, or by different ratios in order to effectively use vertically or horizontally elongated spaces.



Seam Hides Video Mode

When this mode is turned off, a full-screen image of the display panel, including edges (the entire width of the frame), is displayed. This is especially suitable for displaying text information, since no words are hidden by the frame. The image areas that are hidden by borders can be adjusted in both vertical and horizontal directions

*For plasma models, this mode can only be turned on or off.



Multi AI Control Function

By applying AI control to the brightness signal of the entire input signal using the same video processing as for a single-screen image.

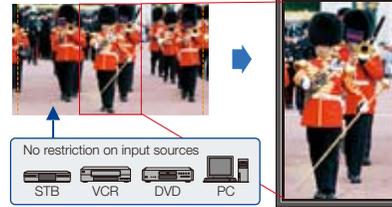
Display ID Control

To prevent remote control errors that can occur when multiple displays are installed in close proximity, each display in a multi-screen system must have a unique ID. Assigning a display ID assures reliable remote control operation.

Portrait Zoom

By dividing horizontal content into three vertical segments, the Portrait Zoom function can dynamically display selected segments.

Horizontal content is divided into three segments.



Desired segments are displayed full-screen in portrait mode.

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.

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, giving you a more effective way to present important messaging.

*Analogue signal combinations cannot be displayed.

Automatic Picture Positioning

Simply press the Auto Setup key on the remote control to position the picture. This function automatically corrects horizontal and vertical picture positions, clock phase, and dot clock when an analogue RGB signal is selected as input. The adjustment results in optimal standard values for horizontal and vertical picture sizes.

*Only for 2K input signals for UX1 Series.

1:1 Pixel Mode

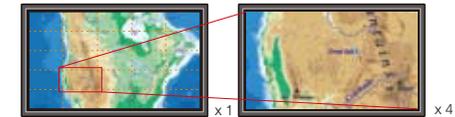
The 1:1 Pixel mode maps the 1920 x 1080 video content to Full HD panel pixels to display 100% of the original content. By skipping the scaling process, this mode is able to produce high-definition images in their original, 1:1 pixel form.

* Compatible signal format: 1,125/50i, 60i, 24sF, 24p, 25p, 30p, 50p, 60p, 1,250/50i.

4x Digital Zoom

This function lets you enlarge a portion of an image up to four times its normal size and display it on the full screen. This function can help give presentations greater impact.

- Digital Zoom does not work in Multi Display or Dual Picture mode.
- Some degradation occurs when images are enlarged.



List of Compatibility

	Multi-Display Function	Seam Hides Video Mode	Multi AI Control Function	Display ID Control	Portrait Zoom	Dual Picture Mode	Advanced Dual Picture Mode	Automatic Picture Positioning	1:1 Pixel Mode	4x Digital Zoom
UX1 Series								•*		
VX200 Series								•		
VX300 Series								•		
PF12 Series	•	•	•	•	•	•	•	•	•	•
PF30 Series	•	•	•	•	•	•	•	•	•	•
PH30 Series	•	•		•			•	•	•	•
LF25 Series	•	•					•	•	•	•
LF30 Series	•	•		•			•	•	•	•
LFP30 Series	•	•					•	•	•	•
LFT30/LFX30 Series	•	•					•	•	•	•

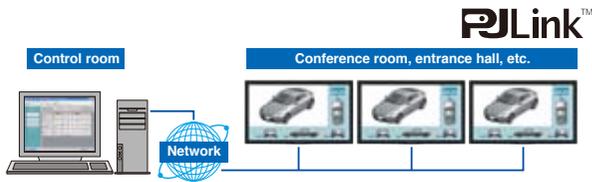
*Only for 2K input signals.

Network Function

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."



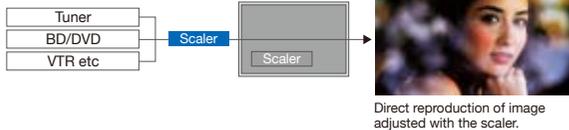
Picture Profiles

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.

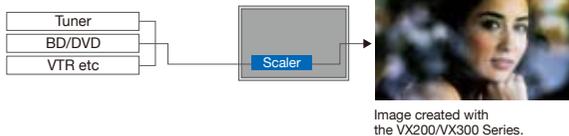
External Scaler Mode

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]

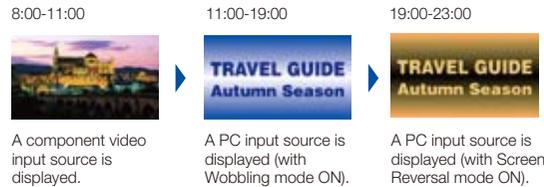


External Scaler Mode [OFF]



Weekly Command Timer

This function makes it easy to automate display operation so there's no need for an external scheduler. You can set a variety of operations — power on/off, image source selection, screen saver functions and more — to activate at specific times on specific days of the week.



Remote System Monitoring

Remote system monitoring lets you check the signal from a distant location. In conventional systems, you had to install a monitoring camera to check the images displayed on an advertising display panel or digital signage system. This monitor command, on the other hand, lets you monitor images by simply connecting a PC via a serial cable.

Power On Screen Delay

This function automatically shifts the power-on time slightly for each display unit in the system, so there's less load on the power supply.

Failover Input

When there is no signal, the specified input signal is automatically switched.

List of Compatibility

Series	Network Function	Picture Profiles	External Scaler Mode	Weekly Command Timer	Remote System Monitoring	Power On Screen Delay	Failover Input	Energy Saving Functions	ECO (Backlight Control)	ECO Mode
UX1 Series		●			●			● ^{*1*}		
VX200 Series	●	●			●			● ^{*1*}		
VX300 Series	●	●	●		●			● ^{*2*}		
PF12 Series	●	●		●	●	●		● ^{*2*}		
PF30 Series	●	●		●	●	●		● ^{*1*}		
PH30 Series					●	●		●		
LF25 Series					●	●	●	●	●	
LF30 Series					●	●	●	●		●
LFP30 Series					●	●	●	●	●	
LFT30/LFX30 Series					●	●	●	●	● ^{*3*}	

*1 Not compatible with Stand-by Power Save. *2 Not compatible with No Activity Power Off. *3 Not compatible with the LFT30 Series.

Energy Saving Functions

Power Save Mode	Reduces the display's brightness.
Stand-by Power Save	Reduces power consumption when on standby.
PC/DVI Power Management	Power is automatically turned on or off in response to a sync signal from the equipment connected to built-in DVI-D*1 or PC*2 input terminal.
No Signal Power OFF	When this function is on, the power is automatically turned off after ten minutes of no input signal.
No Activity Power OFF	The power is turned off (stand-by) automatically when there is no operation of the display for four hours.

*1 Except for PF12, VX200/VX300 Series. *2 DPMS compliant.

ECO (Backlight Control)

A sensor detects the ambient lighting and automatically adjusts the backlight brightness to match the viewing environment.

ECO Mode

Simply pressing the ECO button on the remote control switches the setting to lower power consumption. PC/DVI-D Power Management/No Signal Power Off/Power save can be individually set to ON or OFF depending on the application.

*Individual setting is not available for Power Consumption Reduction.

Tamper Resistance

You can prevent operating errors in public places by making tamper-resistant settings in advance.

Input Lock	Locks the input switch operation.
Button Lock	Restricts the button operations for the display.
Remocon User Level	Restricts the key operations for the remote control.
Maximum VOL Level	Sets the maximum sound volume so it cannot be raised any higher.

Screen Saver (Anti Image-Retention)

A variety of screen saver functions, OVERLAY SCROLLING BAR, SCROLLING BAR ONLY, PEAK LIMIT, WHITE SCREEN and WOBBLING help lower the risk of uneven phosphor aging. The timer can also be used to set the screen saver operating time.

NANODRIFT SAVER

The new NANODRIFT SAVER reduces image retention five times*¹ more effectively than previous systems. By using smooth, fine image movement it minimises the possibility of image retention, without blocking the view.

*1: Compared to our "wobbling" screen saver.
 • NANODRIFT is a trademark of Panasonic Corporation.



Other Functions

Colour Gamut* ¹	You can select from various colour gamut types (DIGITAL CINEMA COLOUR/HDTV/EBU/SMPTE-C/CUSTOM/NATIVE). CUSTOM Mode enables colour space adjustment. The colour space adjustment (default value: BT.709) set in the "EDIT" is reflected.
Under Scan	Displays video signals so that the top, bottom, right and left screen edges that are usually cut off become visible.
Studio Gain* ¹	Increases the contrast to eliminate whiteout.
Studio W/B	Lets you set the colour temperature to best match the applications in broadcast stations and studios.

*¹ Only for 2K input signals for UX1 Series.

Blue-Only Mode

A Blue-Only Mode, which is essential for monitor adjustment, is included. It allows the red and green signals to be cut, and displays only the blue signal as a monochrome image.

R/G/B Cut-off

The RGB Off mode is used to control RGB On/Off independently, which allows secondary colours to be checked.

Waveform Monitor

A variety of markers can be used when editing images. The VX300 Series has markers that can be used for both 16:9 and 4:3 modes. And multiple markers can be displayed simultaneously.



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

Marker Setting

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

*When Studio Mode is ON.



HV Delay

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

* During component/RGB/PC [video format], SDI input signal.
 *When Studio Mode is ON.



H Delay Displays the horizontal blanking interval.
V Delay Displays the vertical blanking interval.
HV Delay Displays both the horizontal and vertical blanking intervals.

Audio Input Select

The video and audio input can each be independently selected. This makes it possible to achieve flexible combinations of images and sounds.

List of Compatibility

	Input Lock	Button Lock	Remocon User Level	Maximum VOL Level	Screen Saver	NANODRIFT SAVER	Colour Gamut	Under Scan	Studio Gain	Studio W/B	Blue-Only Mode	R/G/B Cut-off	Waveform Monitor	Marker Setting	HV Delay	Audio Input Select
UX1 Series	●	●	●	●	●	●*	●	●	●	●	●	●	●	●	●	●
VX200 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
VX300 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PF12 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PF30 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PH30 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LF25 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LF30 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LFP30 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LFT30/LFX30 Series	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

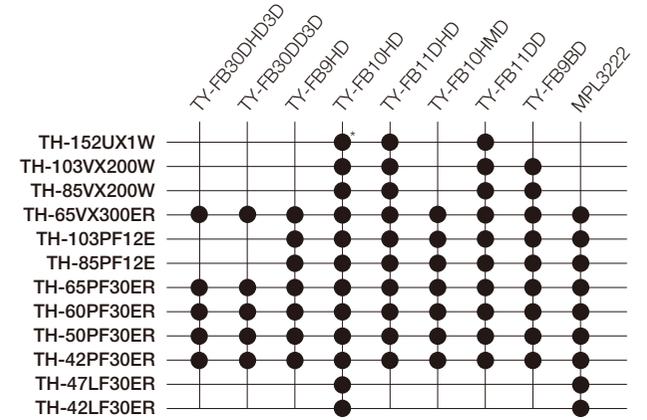
* Only for 2K input signals for UX1 Series.

"SLOT2.0" Function Slot Expands Display Applications

Optional Terminal Boards

	3D-Compatible Dual HD-SDI Terminal Board TY-FB30DHD3D		HD-SDI Terminal Board with Audio TY-FB10HD		DVI-D Terminal Board TY-FB11DD
	3D-Compatible Dual DVI-D Terminal Board TY-FB30DD3D		Dual Link HD-SDI Terminal Board with Audio TY-FB11DHD		BNC Dual Video Terminal Board TY-FB9BD
	HD-SDI Terminal Board TY-FB9HD		Dual HDMI Terminal Board TY-FB10HMD		Media Player MPL3222

List of Compatible Terminal Boards and Accessories

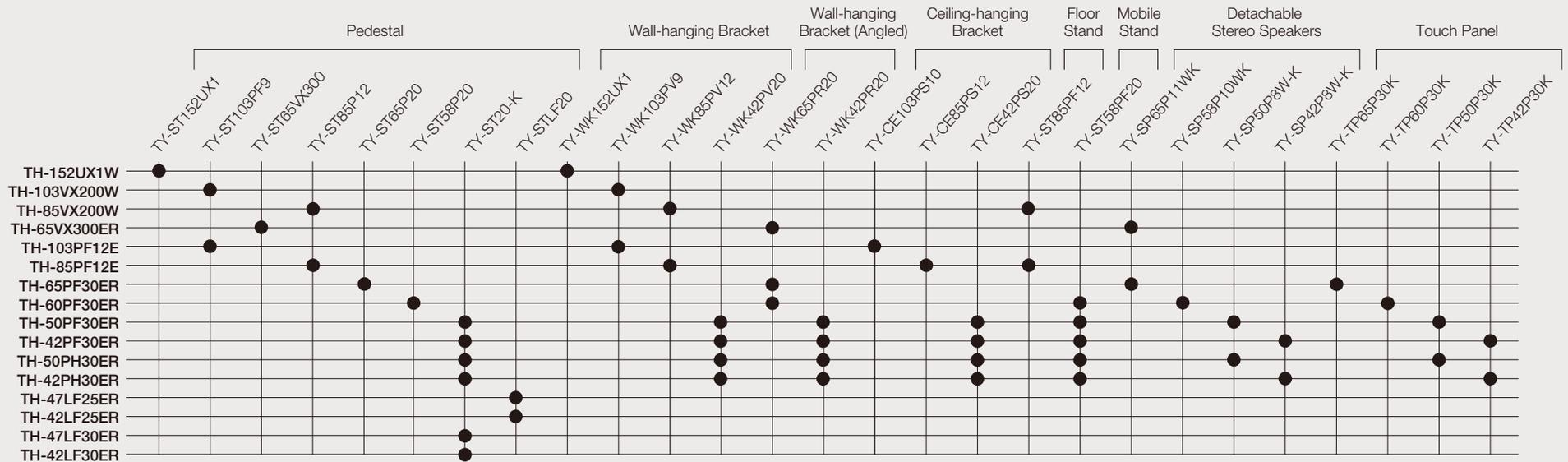


* Audio is not compatible.

Optional Accessories

3D IR Transmitter	3D Eyewear	AV Terminal Box
 TY-3D30TRW (for VX300/PF30 Series)	 TY-EW3D3LE	 TY-TB10AV
TY-3DTRW (for UX1/VX200 Series)	 TY-EW3D3ME	
	 TY-EW3D3SE	

List of Compatible Options



Plasma Displays Specification

SERIES	PF12 Series		PF30 Series	
	TH-103PF12E	TH-85PF12E	TH-65PF30ER	TH-60PF30ER
MODEL	TH-103PF12E	TH-85PF12E	TH-65PF30ER	TH-60PF30ER
DISPLAY				
Screen Size (Diagonal)	103-inch (2,603 mm)	85-inch (2,167 mm)	65-inch (1,645 mm)	60-inch (1,526 mm)
Aspect Ratio	16:9	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	1,330 x 748 mm
Resolution (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
Pixel Pitch (H x V)	1.182 x 1.182 mm	0.984 x 0.984 mm	0.747 x 0.747 mm	0.693 x 0.693 mm
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)
Moving Picture Resolution ²	1,080 lines	1,080 lines	1,080 lines	1,080 lines
Panel Life ³	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D	N/A	N/A	FULL HD 3D Ready ⁴	FULL HD 3D Ready ⁴
CONNECTION TERMINAL				
VIDEO IN	Optional Function Board		BNC x 1	BNC x 1
AUDIO IN (for VIDEO)	Optional Function Board		RCA x 1 set	RCA x 1 set
COMPONENT/RGB IN	BNC x 3 (on Function Board)		BNC x 3	BNC x 3
AUDIO IN (for COMPONENT)	M3 Jack x 1 (on Function Board)		RCA x 1 set	RCA x 1 set
HDMI IN	Optional Function Board		HDMI x 1	HDMI x 1
DVI-D IN	DVI-D 24-pin x 1 (on Function Board)		DVI-D 24-pin x 1	DVI-D 24-pin x 1
AUDIO IN (for DVI-D)	M3 Jack x 1 (on Function Board)		M3 Jack x 1 (Common terminal with PC)	M3 Jack x 1 (Common terminal with PC)
PC IN	Mini D-Sub 15-pin x 1		Mini D-Sub 15-pin x 1	Mini D-Sub 15-pin x 1
AUDIO IN (for PC)	M3 Jack x 1		M3 Jack x 1 (Common terminal with DVI)	M3 Jack x 1 (Common terminal with DVI)
HD-SDI	Optional Function Board			Optional Function Board
Dual Link HD-SDI	Optional Function Board			Optional Function Board
Dual HD-SDI with 3D signal	N/A			Optional Function Board
Dual DVI with 3D signal	N/A			Optional Function Board
CONTROL TERMINAL				
LAN	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™		RJ45 10BASE-T/100BASE-TX, Compatible with PLink™	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™
Serial	D-Sub 9-pin x 1 (RS-232C Compatible)		D-Sub 9-pin x 1 (RS-232C Compatible)	D-Sub 9-pin x 1 (RS-232C Compatible)
3D Shutter Out	N/A		M3 Jack x 1	M3 Jack x 1
DC 8V out for 3D IR Transmitter	N/A		Centre Plus for EIAJ 4 mm Plug	Centre Plus for EIAJ 4 mm Plug
SOUND				
Audio Output	RCA (L/R) x 1 set, Output level: variable (-∞ to 0 dB at 10 kilo ohms)		8 Ω, 20 W [10 W + 10 W] (10 % THD)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
ELECTRICAL				
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 Consumption	1,450 W	1,100 W	510 W	475 W
On Mode Average Power Consumption ⁵	1,065 W	890 W	410 W	370 W
Power Off Condition	0.4 W	0.4 W	0.3 W	0.3 W
Stand-by Condition	Save ON: 0.7 W, Save OFF: 1.2 W	Save ON: 0.7 W, Save OFF: 1.2 W	Save ON: 0.5 W, Save OFF: 0.8 W	Save ON: 0.5 W, Save OFF: 0.8 W
MECHANICAL				
Dimensions (W x H x D)	2,412 x 1,419 x 129 ⁶ mm	2,015 x 1,195 x 99 mm	1,554 x 925 x 99 mm	1,434 x 852 x 99 mm
Weight (Approx.)	201.0 kg	117.0 kg	60.0 kg	49.0 kg
Function Slot (Vacant)	3 (1)	3 (1)	SLOT2.0 (1)	SLOT2.0 (1)
OPERATION ENVIRONMENT				
Temperature	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Humidity (Non condensation)	20 % to 80 %	20 % to 80 %	20 % to 80 %	20 % to 80 %
Altitude	0 - 2,400 m	0 - 2,400 m	0 - 2,800 m	0 - 2,800 m
STANDARD				
Radiation Regulations	EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3		EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3	
Safety Standards	EN60065, IEC60065, GOST		EN60065, IEC60065, GOST	

*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: According to the method for measuring moving-picture resolution to indicate motion-image display performance that was developed by the Advanced PDP Development Centre Corporation (APDC).

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

*4: An optional 3D IR Transmitter (TY-3D30TRW) and 3D Eyewear are required for viewing 3D images. *5: Based on IEC 62087 Ed.2 measurement method. *6: Exclusive of portion (141 mm when including the protruding portion).

SERIES	PF30 Series		PH30 Series	
MODEL	TH-50PF30ER	TH-42PF30ER	TH-50PH30ER	TH-42PH30ER
DISPLAY				
Screen Size (Diagonal)	50-inch (1,268 mm)	42-inch (1,057 mm)	50-inch (1,268 mm)	42-inch (1,057 mm)
Aspect Ratio	16:9	16:9	16:9	16:9
Effective Display Area (W x H)	1,105 x 622 mm	921 x 518 mm	1,105 x 622 mm	921 x 518 mm
Resolution (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,024 x 768 pixels	1,024 x 768 pixels
Pixel Pitch (H x V)	0.576 x 0.576 mm	0.480 x 0.480 mm	1.080 x 0.810 mm	0.900 x 0.675 mm
Contrast Ratio ¹	5,000,000:1	5,000,000:1	2,000,000:1	2,000,000:1
Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	5,120 steps (equivalent)	5,120 steps (equivalent)
Moving Picture Resolution ²	1,080 lines	1,080 lines	900 lines	900 lines
Panel Life ³	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D	FULL HD 3D Ready ⁴	FULL HD 3D Ready ⁴	N/A	N/A
CONNECTION TERMINAL				
VIDEO IN	BNC x 1	BNC x 1	BNC x 1	BNC x 1
AUDIO IN (for VIDEO)	RCA x 1 set	RCA x 1 set	RCA x 1 set	RCA x 1 set
COMPONENT/RGB IN	BNC x 3	BNC x 3	BNC x 3	BNC x 3
AUDIO IN (for COMPONENT)	RCA x 1 set	RCA x 1 set	RCA x 1 set	RCA x 1 set
HDMI IN	HDMI x 1	HDMI x 1	HDMI x 1	HDMI x 1
DVI-D IN	DVI-D 24-pin x 1	DVI-D 24-pin x 1	DVI-D 24-pin x 1	DVI-D 24-pin x 1
AUDIO IN (for DVI-D)	M3 Jack x 1 (Common terminal with PC)	M3 Jack x 1 (Common terminal with PC)	M3 Jack x 1	M3 Jack x 1
PC IN	Mini D-Sub 15-pin x 1	Mini D-Sub 15-pin x 1	Mini D-Sub 15-pin x 1	Mini D-Sub 15-pin x 1
AUDIO IN (for PC)	M3 Jack x 1 (Common terminal with DVI)	M3 Jack x 1 (Common terminal with DVI)	M3 Jack x 1	M3 Jack x 1
HD-SDI	Optional Function Board	N/A	N/A	N/A
Dual Link HD-SDI	Optional Function Board	N/A	N/A	N/A
Dual HD-SDI with 3D signal	Optional Function Board	N/A	N/A	N/A
Dual DVI with 3D signal	Optional Function Board	N/A	N/A	N/A
CONTROL TERMINAL				
LAN	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™	RJ45 10BASE-T/100BASE-TX, Compatible with PLink™	N/A	N/A
Serial	D-Sub 9-pin x 1 (RS-232C Compatible)	D-Sub 9-pin x 1 (RS-232C Compatible)	D-Sub 9-pin x 1 (RS-232C Compatible)	D-Sub 9-pin x 1 (RS-232C Compatible)
3D Shutter Out	M3 Jack x 1	M3 Jack x 1	N/A	N/A
DC 8V out for 3D IR Transmitter	Centre Plus for EIAJ 4 mm Plug	Centre Plus for EIAJ 4 mm Plug	N/A	N/A
SOUND				
External Speakers	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)	6 Ω, 16 W [8 W + 8 W] (10 % THD)
ELECTRICAL				
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 Consumption	445 W	365 W	230 W	175 W
On Mode Average Power Consumption ⁵	260 W	215 W	195 W	150 W
Power Off Condition	0.3 W	0.3 W	0.3 W	0.3 W
Stand-by Condition	Save ON 0.5 W, Save OFF 0.8 W	Save ON 0.5 W, Save OFF 0.8 W	0.5 W	0.5 W
MECHANICAL				
Dimensions (W x H x D)	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm
Weight (Approx.)	33.0 kg	25.5 kg	31.0 kg	24.0 kg
Function Slot (Vacant)	SLOT2.0 (1)	SLOT2.0 (1)	N/A	N/A
OPERATION ENVIRONMENT				
Temperature	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Humidity (Non condensation)	20 % to 80 %	20 % to 80 %	20 % to 80 %	20 % to 80 %
Altitude	0 - 2,800 m	0 - 2,800 m	0 - 2,800 m	0 - 2,800 m
STANDARD				
Radiation Regulations	EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3		EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3	
Safety Standards	EN60065, IEC60065, GOST		EN60065, IEC60065, GOST	

4K2K / 3D Plasma Displays Specification

SERIES	UX1 Series
MODEL	TH-152UX1W
DISPLAY	
Screen Size (Diagonal)	152-inch (3,862 mm)
Aspect Ratio	17:9
Effective Display Area (W x H)	3,416 x 1,801 mm
Resolution (H x V)	4,096 x 2,160 pixels
Pixel Pitch (H x V)	0.834 x 0.834 mm
Native Contrast*1	5,000,000:1
Gradation	8,192 steps (equivalent)
Moving Picture Resolution*2	—
Panel Life*3	Approx. 100,000 hours
FULL HD 3D	Yes*4
CONNECTION TERMINAL	
Dual Link HD-SDI	Dual Link HD-SDI x 4*5
DVI In	DVI-D x 4*5 (Compatible with DVI Revision 1.0)
HDMI In	HDMI x 2 : Ver. 1.4a (Compatible with Deep Colour)
Component In	—
Audio In (L/R)	—
PC In	Mini D-Sub 15-pin x 1 (Female) Plug & Play (VESA DDC 2B)
Audio In (L/R)	—
Audio Line Out (L/R)	—
Function Slot : SLOT 2.0	DVI-D 24-pin x 1 (Audio input is not available.)
CONTROL TERMINAL	
Serial	D-Sub 9-pin x 1 (RS-232C Compatible)
LAN	—
3D Shutter Out	M3 Jack x 1 (for Optional 3D IR Transmitter)
ELECTRICAL	
Power Requirements	200 - 240 V AC, 50 Hz/60 Hz
Power Consumption	3,700 W
On Mode Average Power Consumption*6	Approx. 2,620 W
Power off Condition	0.3 W
Stand-by Condition	0.5 W
SOUND	
External Speakers	—
MECHANICAL	
Dimensions (W x H x D)	3,600 x 1,980 x 147 ⁷ mm
Weight	Approx. 577.0 kg
OPERATING ENVIRONMENTAL	
Cabinet Colour	Black
Temperatures	0 °C to 35 °C
Humidity	20 % to 80 % (Non condensation)
Altitude	0 - 1,500 m
STANDARD	
Safety Regulations	UL60065, CAN/CSA-22.2 No60065:03, SASO, IEC60065, EN60065
Radiation Regulations	FCC Part 15 Class-B, ICES-003, CISPR22 Class-B, EN55022 Class-B, EN55024, EN61000-3-11, EN61000-3-12

Product Fiche

MANUFACTURER	Panasonic Corporation		
SERIES	VX200 Series	TH-85VX200W	VX300 Series TH-65VX300ER
MODEL NO.	TH-103VX200W	TH-85VX200W	TH-65VX300ER
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*	1,375 kWh / year	1,079 kWh / year	569 kWh / year
Standby Power Consumption	0.50 W	0.50 W	0.50 W
Off Mode Power Consumption	0.30 W	0.30 W	0.30 W
Display Resolution	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)	1,920 (W) x 1,080 (H)
DISPLAY			
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
Native Contrast*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)
Moving Picture Resolution*2	1080 lines	1080 lines	1080 lines
Panel Life*3	Approx. 100,000 hours	Approx. 100,000 hours	Approx. 100,000 hours
FULL HD 3D	Yes	Yes	Yes*4
CONNECTION TERMINAL			
Dual Link HD-SDI	—	—	—
DVI In	—	—	—
HDMI In	HDMI x 4 : Ver. 1.4a (Compatible with Deep Colour)	HDMI x 4 : Ver. 1.4a (Compatible with Deep Colour)	HDMI TYPE A x 2 (Compatible with Deep Colour)
Component 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
Audio Line Out (L/R)	Mini D-Sub 15-pin x 1 (Female)	Mini D-Sub 15-pin x 1 (Female)	Mini D-sub 15-pin x1 (Female)
PC In	Plug & Play (VESA DDC 2B)	Plug & Play (VESA DDC 2B)	Plug & Play (VESA DDC 2B)
Audio In (L/R)	M3 Jack x 1	M3 Jack x 1	M3 Jack x 1
Audio Line Out (L/R)	RCA (L/R) x 1 set, Output Level: Variable (-∞ to 0 dB)	RCA (L/R) x 1 set, Output Level: Variable (-∞ to 0 dB)	—
Function Slot: SLOT2.0	SLOT2.0 x 1 (Vacant)	SLOT2.0 x 1 (Vacant)	SLOT2.0 x 1 (Vacant)
CONTROL TERMINAL			
Serial	D-Sub 9-pin x 1 (RS-232C Compatible)		
LAN	RJ45 10 BASE-T/100 BASE-TX, Compatible with PULINK™		
3D Shutter Out	M3 Jack x 1 (for Optional 3D IR Transmitter)		
ELECTICAL			
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
Stand-by Condition	0.5 W	0.5 W	Save ON 0.5 W. Save OFF 0.8 W
SOUND			
External Speakers	—	—	—
MECHANICAL			
Dimensions (W x H x D)	2,412 x 1,419 x 129 ⁷ mm	2,015 x 1,195 x 99 mm	1,554 x 924 x 94 mm
Weight	Approx. 199.0 kg	Approx. 117.0 kg	Approx. 60.0 kg
OPERATING ENVIRONMENTAL			
Cabinet Colour	Black (Aluminum Hairline Finish)		Black (Aluminum Hairline Finish)
Temperatures	0 °C to 40 °C		0 to 40 °C
Humidity	20 % to 80 % (Non condensation)		20 % to 80 % (Non condensation)
Altitude	0 - 2,400 m		0 to 2,800 m
STANDARD			
Safety Regulations	SASO, IEC60065, EN60065, GOST		EN60065, IEC60065, GOST
Radiation Regulations	CISPR22 Class-B, EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3		EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3

* 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 televisions is used.

*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: According to the method for measuring moving-picture resolution to indicate motion-image display performance that was developed by the Advanced PDP Development Centre Corporation (APDC). *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. Afterimages (burned-in images) and malfunctions are not taken into consideration. *4: An optional 3D IR Transmitter (TY-3DTRW) and 3D Eyewear are required for viewing 3D images. *5: 4 inputs are set and only for one 4K signal. You can not input 4 different signal to each inputs. *6: Based on IEC 62087 Ed.2 measurement method. *7: Exclusive of portion (260 mm when including the protruding portion of the slot) *8: Exclusive of portion (141 mm when including the protruding portion of the slot)

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LCD Displays Specification

SERIES	LF25 Series		LF30 Series		LFP30 Series		LFT30/LFX30 Series
MODEL	TH-47LF25ER	TH-42LF25ER	TH-47LF30W	TH-42LF30W	TH-47LFP30W	TH-42LFP30W	TH-47LFT30W/TH-47LFX30W
IP Rating*1	-		-		IP66	IP66	Corresponding to IP53
DISPLAY							
Screen Size (Diagonal)	47-inch (1,192 mm)	42-inch (1,067 mm)	47-inch (1,192 mm)	42-inch (1,067 mm)	47-inch (1,192 mm)	42-inch (1,067 mm)	47-inch (1,192 mm)
Aspect Ratio	16:9		16:9		16:9	16:9	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	1,039 x 584 mm	930 x 523 mm	1,039 x 584 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 (Typ)		700 cd/m ² (Typ)		In dark room : 750 cd/m ² (Typ) In daylight*2 : 1,000 cd/m ² (Max)		In dark room : 1,000 cd/m ² (Typ) In daylight*2 : 1,500 cd/m ² (Max)
Contrast Ratio	1,200 : 1		1,200 : 1		1,000 : 1		1,000 : 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 (Horizontal/Vertical)	178° / 178°		178° / 178°		178° / 178°		178° / 178°
Orientation	Landscape/Portrait		Landscape/Portrait		Landscape/Portrait		Landscape/Portrait
Touch Screen Panel	-		-		-		Capacitance Type Touch Panel*
CONNECTION TERMINAL							
VIDEO IN	BNC x 1, S-Video x 1		BNC x 1		BNC x 1		-
AUDIO IN	RCA (L/R) x 1 set (for VIDEO/S-VIDEO)		RCA (L/R) x 1 set		RCA (L/R) x 1 set		-
HDMI IN	HDMI TYPE A Connector x 2 (Deep Colour Compatible)		HDMI TYPE A Connector x 2 (Deep Colour Compatible)		HDMI TYPE A Connector x 2 (Deep Colour Compatible)		HDMI TYPE A Connector x 2 (Deep Colour Compatible)
COMPONENT/RGB IN	BNC x 3		BNC x 3		BNC x 3		-
AUDIO IN	RCA (L/R) x 1 set		RCA (L/R) x 1 set		RCA (L/R) x 1 set		-
DVI-D IN	DVI-D 24-pin (HDCP Compatible) x 1		DVI-D 24-pin (HDCP Compatible) x 1		DVI-D 24-pin (HDCP Compatible) x 1		DVI-D 24-pin (HDCP Compatible) x 1
DVI-D OUT	-		DVI-D 24-pin (HDCP Compatible) 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)		Mini D-Sub 15-pin x 1 Plug & Play (VESA DDC 2B)
AUDIO IN (for DVI-D/PC)	M3 Jack x 1		M3 Jack x 1		M3 Jack x 1		M3 Jack x 1
TOUCH PANEL	-		-		-		I/F Connector: TYPE B (USB2.0 Compatible)*
SLOT	-		SLOT2.0 Compatible		-		-
CONTROL TERMINAL							
Serial	D-Sub 9-pin x 1 (EXTERNAL CONTROL TERMINAL), RS-232C Compatible		D-Sub 9-pin x 1 (SERIAL IN) /D-Sub 9-pin x 1 (SERIAL OUT), 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
ELECTRICAL							
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 Consumption	290 W	240 W	340 W	290 W	290 W	240 W	300 W
On Mode Average Power Consumption*3	Approx. 245 W	Approx. 200 W	Approx. 255 W	Approx. 220 W	Approx. 200 W	Approx. 160 W	Approx. 250 W
Stand-by Condition (Winter mode: OFF)	Save ON 0.2 W, Save OFF 0.3 W	Save ON 0.2 W, Save OFF 0.3 W	0.5 W	0.5 W	Save ON 0.2 W, Save OFF 0.3 W	Save ON 0.2 W, Save OFF 0.3 W	Save ON 0.2 W, Save OFF 0.3 W
(Winter mode: ON)	-	-	-	-	Backlight ON 100 W, Backlight OFF 40 W	Backlight ON 80 W, Backlight OFF 40 W	Backlight ON 110 W, Backlight OFF 40 W
Power Off Condition	0.2 W	0.2 W	0.3 W	0.3 W	0.2 W	0.2 W	0.2 W
SOUND							
Built-in Speakers	8 Ω, 10 W [5 W + 5 W] (10 % THD)		8 Ω, 10 W [5 W + 5 W] (10 % THD)		-		-
External Speakers	-		-		8 Ω, 10 W [5 W + 5 W] (10 % THD)		8 Ω, 10 W [5 W + 5 W] (10 % THD)
MECHANICAL							
Dimensions (W x H x D)	1,079 x 624 x 101 mm	968 x 561 x 101 mm	1,079 x 624 x 117 mm	968 x 561 x 116 mm	1,162 x 706 x 158 mm*4	1,049 x 642 x 158 mm*4	1,149 x 694 x 271 mm
Bezel Width	18.6 mm	18.3 mm	18.6 mm	18.3 mm	32 mm	32 mm	50 mm
Weight	Approx. 23.0 kg	Approx. 18.0 kg	Approx. 25.0 kg	Approx. 21.0 kg	Approx. 45.0 kg	Approx. 38.0 kg	Approx. 62.0 kg
Cabinet Material/Colour	Plastic/Black		Plastic/Black		Aluminum/Silver		Aluminum/Silver
Mounting Method	VESA 400 x 400 mm		VESA 400 x 400 mm		VESA 400 x 400 mm		VESA 400 x 400 mm
STANDARD							
Safety Regulations	EN60065, IEC60065, GOST		EN60065, IEC60065, GOST		EN60950-1, IEC60950-1, -22 GOST		EN60950-1, IEC60950-1, GOST
Radiation Regulations	IEN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3		IEN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3		IEN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3		IEN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3
ENVIRONMENTAL							
Operating Environment	Temperature: 0 °C to 40 °C		Temperature: 0 °C to 40 °C		Temperature: 0 °C to 40 °C Temperature (Winter Mode): -20 °C to 40 °C		Temperature: 0 °C to 45 °C*5 Temperature (Winter Mode): -20 °C to 45 °C*5
	Humidity 20 % to 80 % (Non Condensation)		Humidity 20 % to 80 % (Non Condensation)		Humidity: 20 % to 90 %		Humidity: 20 % to 90 % (Non Condensation)

*1: IP=Ingress Protection *2: Measured under ambient lighting of approximately 80,000lx. It is not allowed to be installed with facing direct sunlight on the panel. *3: Based on IEC62087 Ed.2 measurement method. *4: Including protrusions.

*5: Being installed with facing direct sunlight on the panel, the operation temperature must be under 40 °C instead of 45 °C

+LFT30 Series Only.

Panasonic ideas for life

Simulated pictures on screen.
Specifications are subject without notice.
As of January 10, 2012.
CT12PDP/LCD-E01