

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

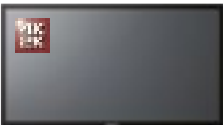






- Large Screens and Outstanding Image Quality
- The Superior Moving Picture Resolution
- Tough Display Panel with Impact-Resistant Hard Glass Panel

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



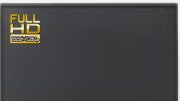
- Large-Screen High Brightness (700-cd/m²)
- 24/7 Operation
- Slim, Lightweight Design

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.



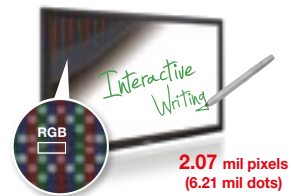


| Model no. | | TH-65PB1EK |
|---------------------------------|-------------------------------------|---|
| DISPLAY | Screen Size (Diagonal)/Aspect Ratio | 65-inch (1,645 mm)/16:9 |
| | Effective Display Area (W x H) | 1,434 x 806 mm |
| | Number of Pixels (H x V) | 1,920 x 1,080 pixels |
| | Contrast 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.

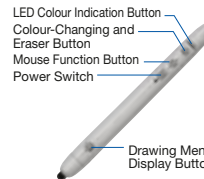
Excellent Writing Ease

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>



PLASMA Large Format

Displays with a Wide Viewing Angle — Ideal for Signage Use

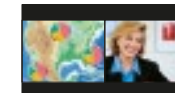
Plasma display panel images can be clearly seen even from an angle, giving them an excellent eye-catching effect when used as large-screen displays.



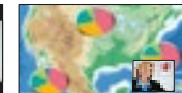
Dual Picture Mode

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



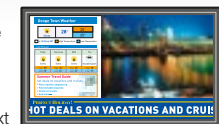
Picture-in-Picture



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

| | TH-103PF12E | TH-85PF12E | TH-152UX1W |
|--|---|---|---|
| Model no. | TH-103PF12E | TH-85PF12E | TH-152UX1W |
| 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 |
| 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 | — | — | — |
| 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) |
| 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 signals to each input.

*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

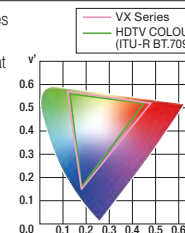
With the wide colour gamut of this panel, the natural colours and textures of materials can be faithfully reproduced, meeting versatile market needs.



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

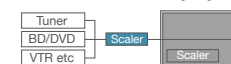


* DIGITAL CINEMA COLOUR/HDTV COLOUR (ITU-R BT.709) /NATIVE/CUSTOM for VX200 Series.

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]

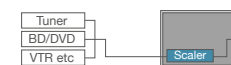


Image created with the VX Series.

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 | |
| FEATURES | 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) | |
| | 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.





NANODRIFT

NANODRIFT

| | Model no. | TH-50BT300ER | TH-42BT300ER |
|---------------------------------|-------------------------------------|---|----------------------------------|
| 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) | 1,920 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 |
| | FULL HD 3D*3 | FULL HD 3D Ready | FULL HD 3D Ready |
| 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 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 | |

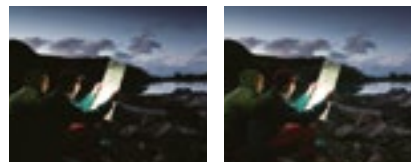
*1: The dark-room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4 x window.
 *2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures 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

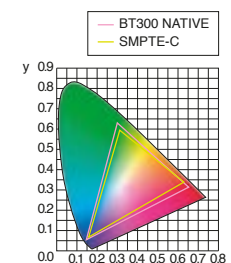
Confirm the angle of view with the 4:3, 13:9, 14:9, VISTA marker, and CNSCO marker.

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

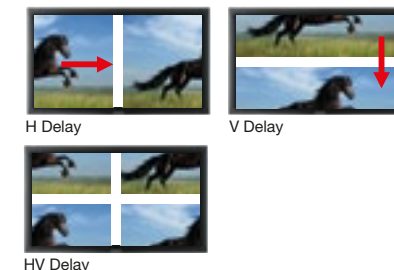
Steady, blur-free, fast-moving images such as sports scenes and action films.

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.



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)

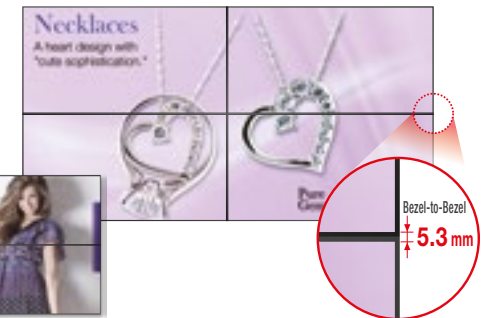
A super narrow bezel design reduces the width of screen-joining borders to only 5.3 mm in video wall. The borders are hardly visible even in very large-screen configurations, so images are more dynamic and natural.



Conventional Type

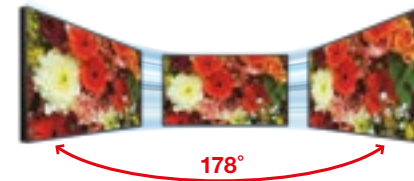


LFV50



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.

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.

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.



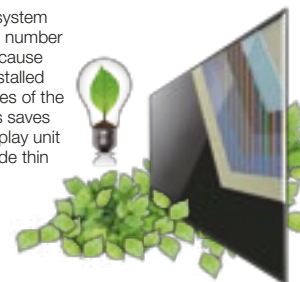
| | TH-80LF50ER | TH-70LF50ER |
|--|---|---------------------------|
| Model no. | TH-80LF50ER | TH-70LF50ER |
| Screen Size (Diagonal)/Aspect Ratio | 80-inch (2,032 mm)/16:9 | 70-inch (1,765 mm)/16:9 |
| Panel Type | LED | LED |
| Effective Display Area (W x H) | 1,771 x 996 mm | 1,538 x 865 mm |
| 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

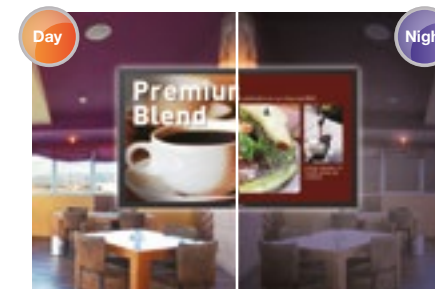
The fan-less design prevents malfunctions otherwise caused by dust particles brought in by the fan. This enables safe installation in crowded areas.

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | TY-ST42P50 | — | — | — | — | — | — | — | — | — | — | Yes | — | — | — | — | — | — | — | — | Yes | — | — | — | — |
| | TY-ST20-K | — | — | — | — | — | — | — | — | — | — | — | Yes | Yes | 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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | 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 | — | — | — | — | — | — | — |
| 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 | 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 | Yes | — | — | — | — | — | — | — | — | — | — | — | — |
| Easy Wireless Stick | ET-UW100 | Yes | — | — | — | — | — | — | 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 | 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

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