

Panasonic
ideas for life

2008/Later


Professional Plasma Displays

Continuous Evolution



Panasonic
ideas for life



Control 

Simulated pictures on screen.
Specifications are subject to change without notice.
Printed in Japan OCE08S-02

A Fusion of Accumulated Expertise and Leading-Edge Technologies: Professional Plasma Displays

Incorporating an Abundance of State-of-the-Art Imaging Technologies Developed by the Leading Plasma Display Manufacturer

Panasonic has been involved in developing plasma displays for many years. By incorporating numerous imaging technologies accumulated through our relentless pursuit of advanced technologies, we've created large-screen panels that are capable of displaying images that mirror the originals. Now, by adding even more advanced expression capabilities, we deliver images with true emotional impact in our Professional Plasma Display Series.



Panasonic Quality and Performance — Recognized the World Over

Panasonic performs all plasma display production processes in-house, including development and production of the panels, design and development of the circuits and drive systems, and assembly of the final products. Panasonic's uncompromising production policy has earned our customers' trust. Panasonic products are widely used in a host of professional applications around the world.



Original Triple Function Slots Increase Application Diversity

Panasonic professional plasma displays feature Triple Function Slots, which allow terminal boards to be swapped according to the video source. By using a wide range of available options, such as function boards and touch panels, each display can be tailored to suit specific needs.



TH-103PF10WK
TH-103PF10WL (Low-reflection model)



TH-65PF11WK



TH-58PF11WK



TH-50PF11WK



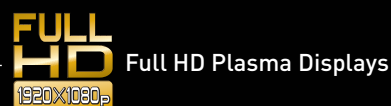
TH-42PF11WK



TH-50PH11AK



TH-42PH11AK



Full HD Plasma Displays

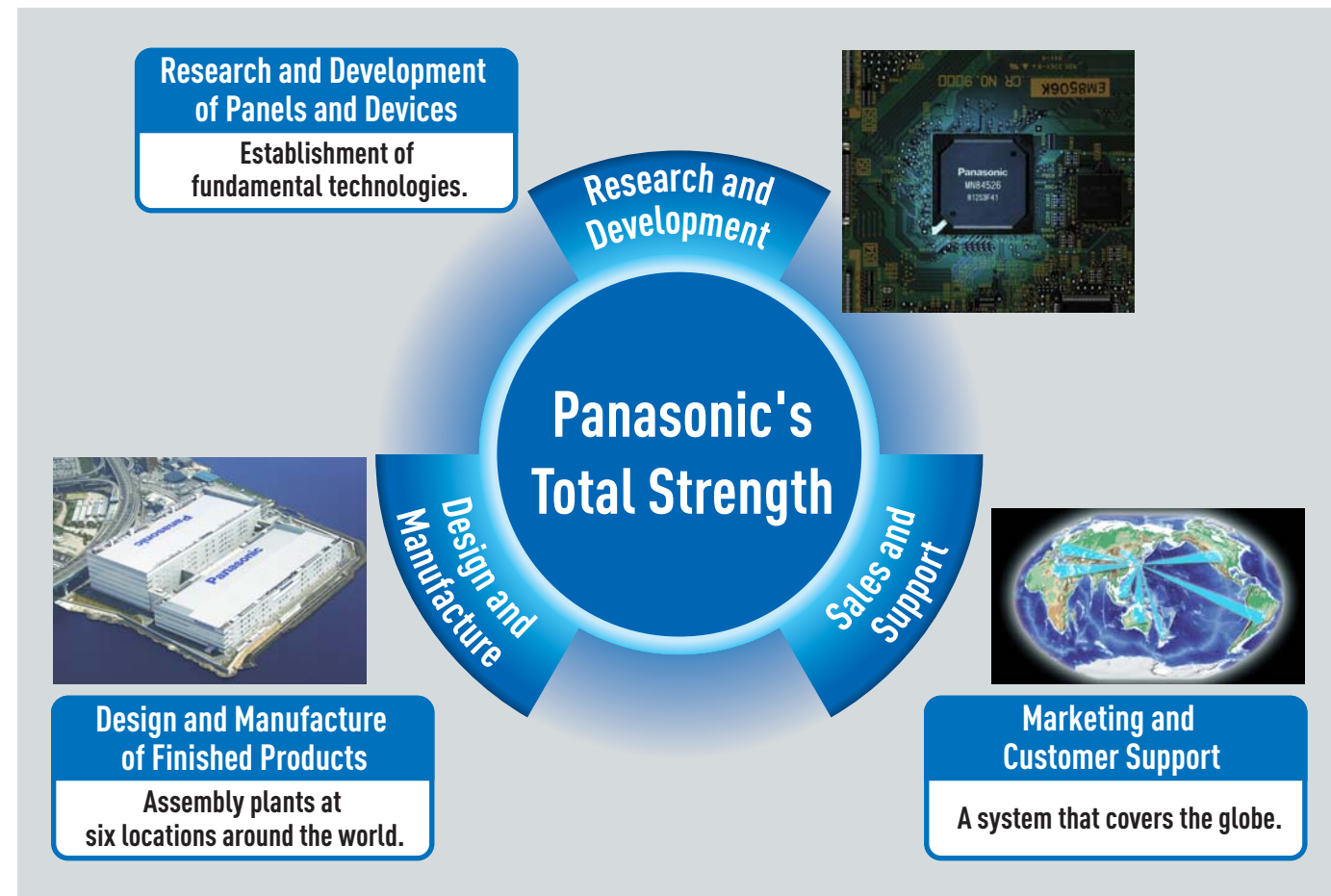
High Definition Plasma Displays

Panasonic Plasma Displays – The Brand Preferred and Trusted around the Globe

In-House Development and Production of Everything from Devices to Finished Products

Panasonic conducts all activities related to its plasma displays in-house, such as its research and development of the panels and devices that form the key components of the plasma display, the development of circuits and drive systems, and the assembly of finished products.

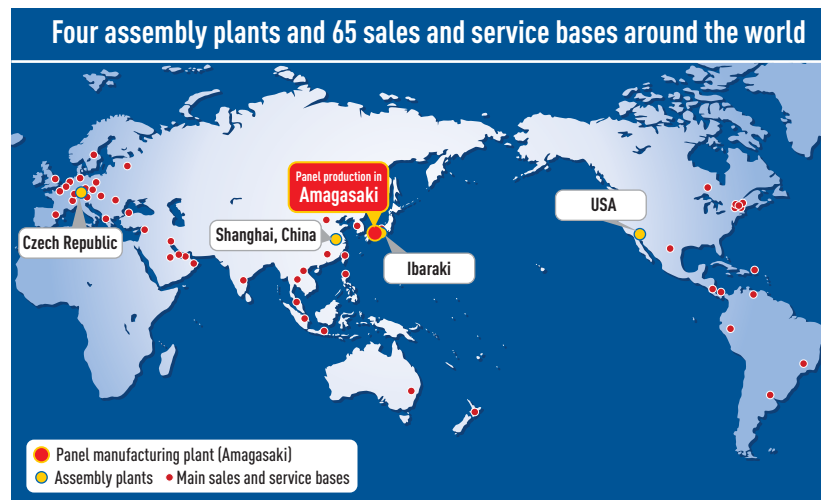
In order to quickly reflect feedback from customers worldwide into production, Panasonic operates assembly plants at six locations around the globe. The company's commitment and devotion to the production of superior products are the basis for the high popularity and trust that Panasonic products have earned across the world.



Panasonic's Global Network

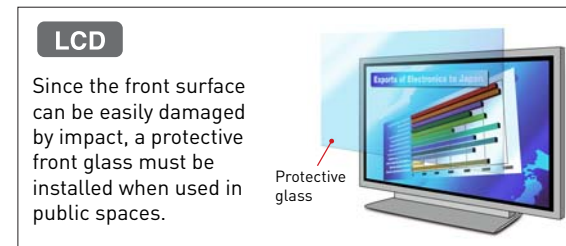
With its plasma displays widely used around the world, Panasonic has established sales and service bases at 65 locations around the world to meet the requirements and service requests demanded by users, and particularly those of professional users.

The production of plasma display panels, which are core devices for these display products, requires stringent quality control. Therefore, Panasonic manufactures all plasma display panels at its Amagasaki Plant and operates assembly plants at four locations around the world. Panasonic's global network is designed to achieve optimum production efficiency in each stage of manufacturing, and responds to growing worldwide demand for plasma display panels.



Tough Body Withstands Use in Public Spaces

Plasma displays feature a pane of tempered glass on the front. This front glass does not break easily even when an external impact is applied. Therefore, it can be used in public spaces where many people walk by, such as crowded passageways or lobbies, without having to install a special protective material on the front.



Plasma The front glass is about 10 times stronger than the LCD surface.

Protected by this robust front glass, plasma displays can be used safely in public spaces.



Displays Beautiful Images for a Long Time

The Panasonic Professional Plasma panel offers a long life*1 of approximately 100,000 hours. And because there are hardly any consumables*2 that need to be replaced periodically, running costs are low. Dust and dirt can be easily wiped off with a soft cloth. Plasma display panels continue to provide beautiful pictures for a long time, with minimum maintenance.

*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. (Note that products are set to Dynamic mode at the factory before shipment. When inputted PC signal from the PC In terminal, they are set to the Standard mode.)

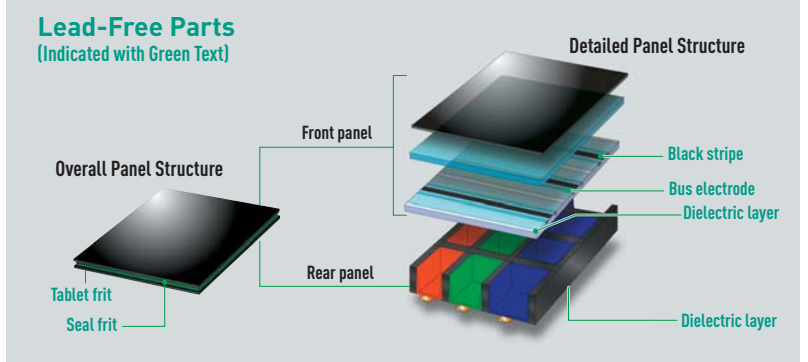
*2: The heat radiating fan is a consumable part.

Displays beautiful pictures for about 100,000 hours.*1



The World's First*3 Lead-Free Plasma Display Panels – Gentle to the Environment

Panasonic was the first in the world to develop and mass produce lead-free plasma display panels. Panasonic proclaimed a "lead-free" design in all plasma display models from 2006 onward, thus reducing the possibility of pollution caused by environmentally hazardous substances in disposed products. In addition to lead, Panasonic also stopped using mercury, cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) in panels, thus eliminating the use of all six specified hazardous substances in compliance with the RoHS Directive (excluding exempted items). Panasonic actively promotes the production of environmentally conscious products.



*3: Announced on November 2, 2006. Achieved lead-free designs in all 140 models for worldwide markets.

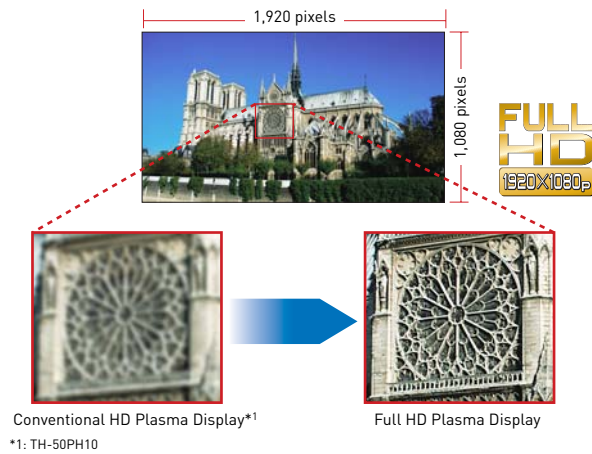
The Amagasaki Plant, which manufactures all Panasonic plasma display panels, uses a variety of environment-friendly systems and technologies, such as a photocatalytic coating on building exteriors, the "Kaze-Kamome" (Wind-Seagull) hybrid wind and solar power tower system, and sprinklers that use rainwater.



Advanced Image-Processing Technologies Precisely Reproduce Large-Screen Image Details and Textures

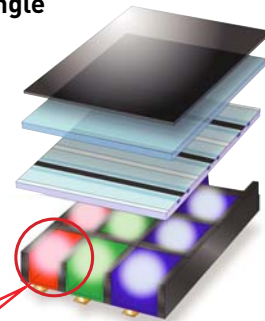
1,920 x 1,080p Panel for High-Resolution Displays

Full HD plasma display panels with 1,920 horizontal pixels and 1,080 vertical pixels reproduce clear, detailed images. Panasonic's high-resolution technologies are maximized to achieve superb expression on large screens.



• A Beautiful Picture from Any Angle

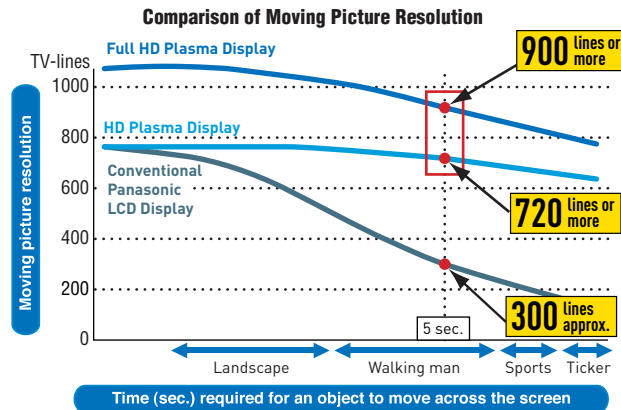
On a plasma display panel, each pixel is self-illuminating. This is why plasma displays provide vivid color and sharp images that never appear whitish even when viewed from an angle. Panasonic plasma displays deliver high-resolution images without losing the original quality of the video source.



Each pixel is self-illuminated.

Sharp and Clear Display of Fast-Moving Action

The superb motion picture resolution of the plasma display panel ensures that even fast-moving action is displayed clearly with full detail and with minimum afterimages. Panasonic Professional Plasma Displays deliver beautiful, high-resolution images from Full HD sources.



* Motion picture resolution is a quantitative measurement of detail in displayed motion pictures discernible by the human eye. It is expressed by the number of lines. Using a measurement method developed and applied by the APDC (Advanced PDP Development Center Corporation).

• Motion Picture Resolution of More Than 900 Lines for Producing a Greater Range of Content

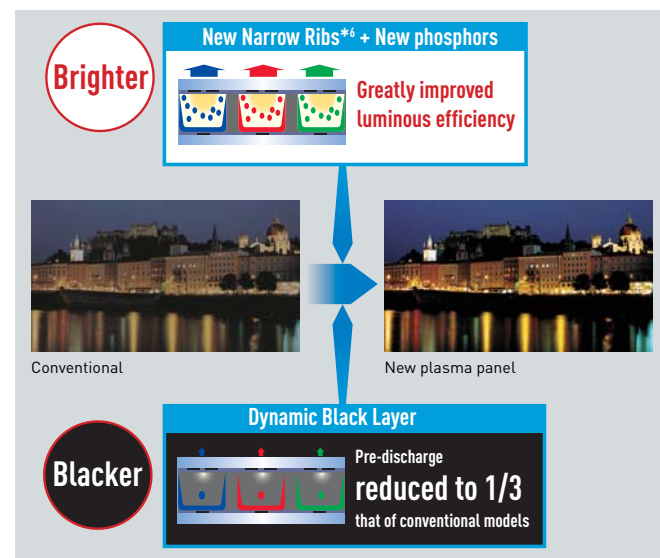
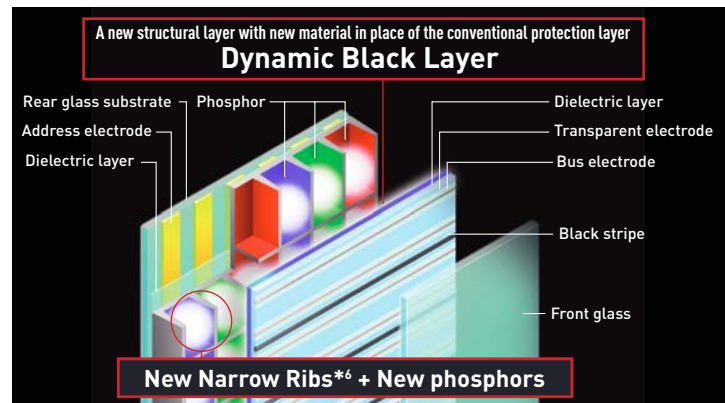
Since high motion picture resolution enables a clear, blur-free display of tickers commonly used in digital signage, easy-to-read text content can be displayed.



Blur-free tickers are easy to read.

New Plasma Panels with the World's Highest*2 Contrast of 30,000:1*3 Reproduce Even the Blackest Blacks

Panasonic's newly developed Dynamic Black Layer has reduced pre-discharge, which is a common cause of unwanted graying, to 1/3 that in conventional plasma displays.*4 This technology has achieved the world's highest*2 contrast of 30,000:1*3 (dynamic contrast of 1,000,000:1*5), to reproduce images with enhanced depth that seems to pull the viewer in.

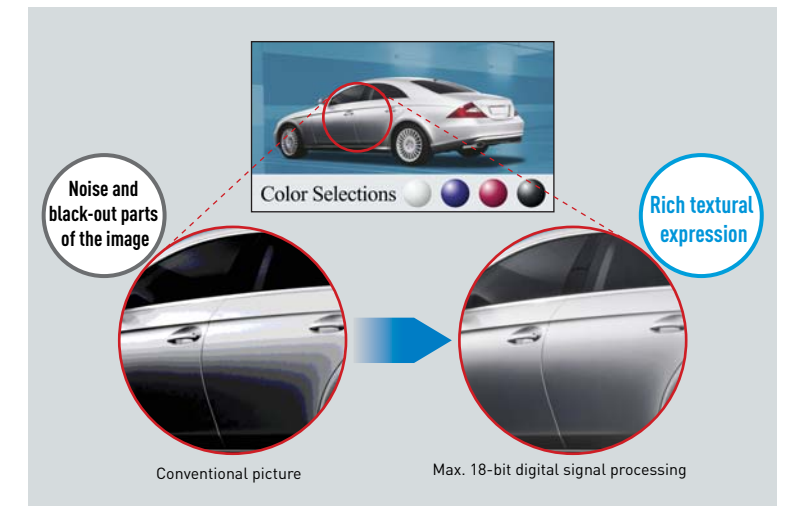
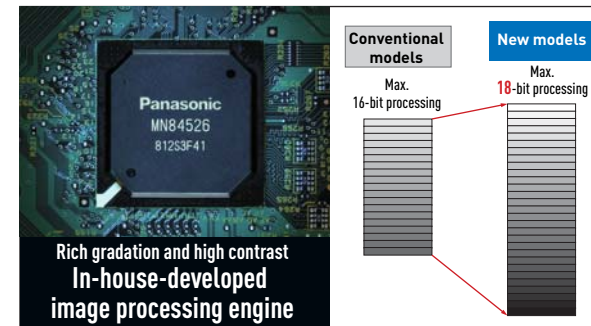


*2: In comparison with other plasma displays, as of October 1, 2008, according to a Panasonic study.
*3: Dark-area contrast that can be displayed simultaneously on the same screen. The contrast ratio of the TH-50PH11 and TH-42PH11 is 15,000:1, and that of the TH-103PF10 is 5,000:1.
*4: Panasonic PZ750 Series
*5: The ratio of the brightness of a screen displaying an all-white signal to the brightness of a screen displaying an all-black signal.
*6: The TH-50PH11 and TH42PF11 feature New Narrow Ribs.

Rich 5,120 Equivalent Steps*7 of Gradation with the World's Highest,*2 18-Bit Digital Processing*8

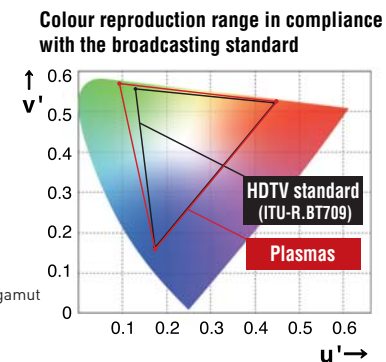
Real Gamma Control technology achieves rich shading with 5,120 equivalent steps*7 of gradation in all scenes by using a maximum 18-bit digital signal processing. This technology faithfully reproduces the original textural quality of the video source.

*7: The TH-103PF10, TH-50PH11 and TH-42PH11 have 4,096 equivalent steps of gradation.
*8: The TH-103PF10 uses 16-bit digital signal processing.



Approx. 110%*9 of the Colour Gamut of the HDTV Standard

High-definition broadcasts are based on the HDTV standard, rather than the conventional PAL standard. With the improved properties of their phosphors, 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.



*9: Comparison based on colour gamut

Detail Accuracy that Rivals Studio Monitors — Digital Colour Reality

In Cinema mode, Digital Colour Reality boosts precision in the digital control of chrominance and luminance video data. By continuously adjusting the white balance and performing gamma correction as scenes change, this technology accurately creates the kind of faithful ambience that was difficult for previous systems to deliver.



Expresses the natural warmth of sunlight, and conveys subtle colour differences in bright and shaded areas.



Faithfully expresses subtle colour differences in bright and shaded areas.

Less Digital-Video Noise

Noise reduction circuitry suppresses the block noise and mosquito noise that are specific to HDTV broadcasts and other digital video signals (MPEG video). This allows images to be faithfully reproduced in all their original beauty.

• Block Noise Reduction

The noise reduction circuit detects and eliminates block noise that is generated when compressing motion images with an inadequate bit rate.



Block NR OFF



Block NR ON

• Mosquito Noise Reduction

The noise reduction circuit reduces mosquito noise that is generated when compressing motion images, particularly at the edges of characters and in parts where rapid color changes occur.



Mosquito NR OFF



Mosquito NR ON

Dynamic Images Draw Attention and Provide Strong Appeal to Viewers

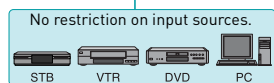


Life-Size Digital Signage Displays

The 103-inch plasma display is large enough to display people in life-size scale. The Portrait Zoom function can be used to create extremely eye-catching window displays with richly shaded images.

Portrait Zoom Function — Useful for Vertical Mounting (PF series only)

By dividing the content from a video source into three vertical segments and displaying one segment on a portrait-position plasma display, a desired section of an image can be displayed dynamically. When three plasma display units are combined in portrait orientation, the entire image can be displayed dynamically on an extra-large screen.



One of the three divided segments can be selected for display.



A full-screen image displayed on three plasma display units.

Useful Functions in Multi-Screen Systems

• Power-On Delay Function

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.

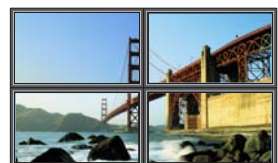
• Seam Hides Video Off Mode

This mode displays a full-screen image, including the edges (the width of the frame) of the display panel. This is especially suitable for displaying text information, since no words are hidden by the frame.

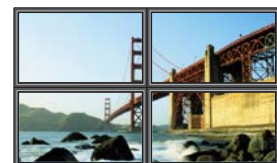


• Multi AI Control Function

By applying AI control to the brightness signal of the entire input signal using the same video processing as for a single-screen image, this new function achieves a uniform brightness level over the entire image.



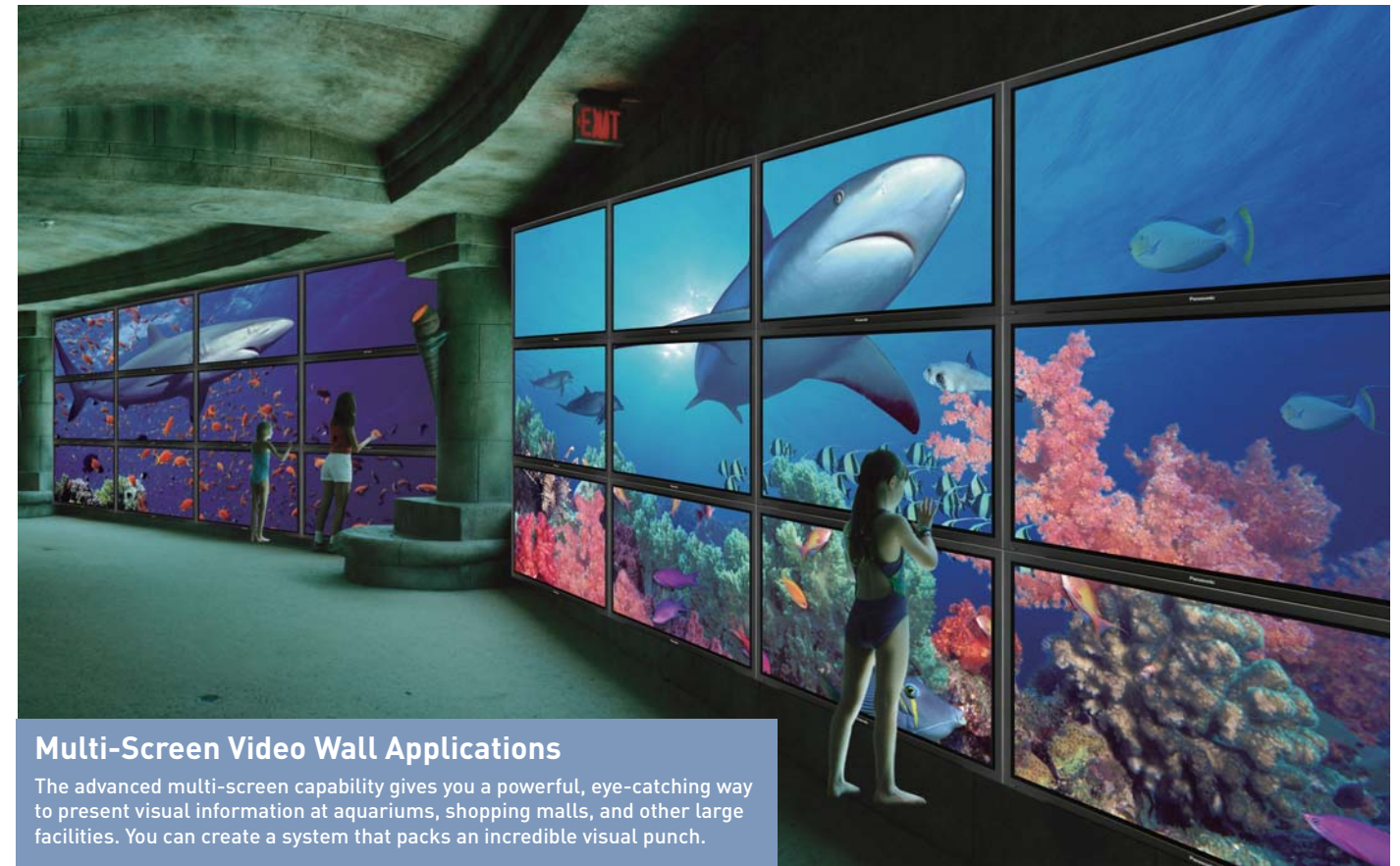
Because video information is processed individually for each display unit, images may appear darker than on other display units.



Since video information is processed for the entire input signal, there is no brightness difference from other display units.

• Display ID Control Function

The remote control that comes with the display is equipped with a "Display ID Control" function that allows you to control up to 100 displays with the one remote.



Multi-Screen Video Wall Applications

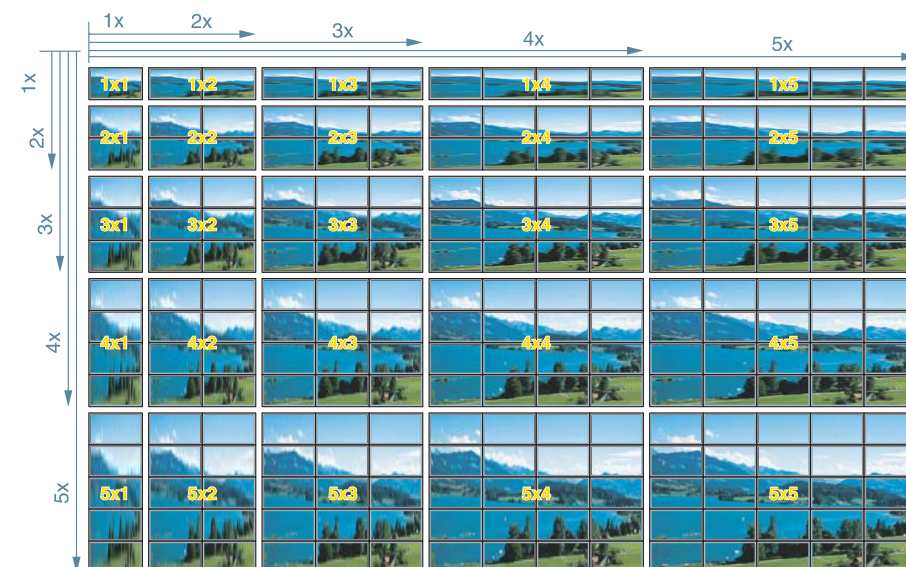
The advanced multi-screen capability gives you a powerful, eye-catching way to present visual information at aquariums, shopping malls, and other large facilities. You can create a system that packs an incredible visual punch.

Multi Display Function

This built-in image-enlarging function makes it easier to set up multi-screen systems with as many as 25 displays (5x5 configuration).

A new function lets you enlarge the image up to 5x vertically and horizontally independently, making it easy to set up a multi-screen system with up to five displays arranged either vertically or horizontally. For example, expand the image horizontally to 5x and leave it unchanged vertically, and you can create a system with five units side-by-side.

Note: Images of SXGA resolution or higher from a PC or RGB source may not enlarge correctly.



Digital Banners Utilize Vertical Space

Multi-screen systems can be easily configured to make effective use of the vertical space in locations such as entranceways and lobbies. These digital banners catch widespread attention with their unique combination of sophistication and visual appeal.

Advanced Functions Help Create Effective Digital Signage



Effective Storefront Advertising with Blend Dual Picture

The PF11 Series features a Blend Dual Picture function to enable easy superimposition of motion images and text. It adds impact to your message and draws substantial attention to your product, service, event or whatever you are marketing or communicating.

Blend Dual Picture Function (PF11 Series only)

The Blend Dual Picture function overlays text information produced with a PC onto base motion images. It also enables superimposing of a motion image onto a text message. The transparency of the overlay image can be flexibly adjusted between 0% and 100%. This function makes it easy to produce subtitles without requiring expensive editing equipment.

Note: Please be aware that using this function to process images without the permission of the copyright holder for commercial display or for public viewing may infringe upon the rights of the copyright holder.

Following combinations of two analog signals cannot be displayed: Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) - PC (RGB).



Dual Picture Mode

You can simultaneously display images from any two different kinds of AV sources connected. When displaying two separate images, you can select the audio output from either source. Playing back the audio from the sub-source can be useful in teleconferencing, for example.

Advanced Dual Picture Mode — Useful in Digital Signage

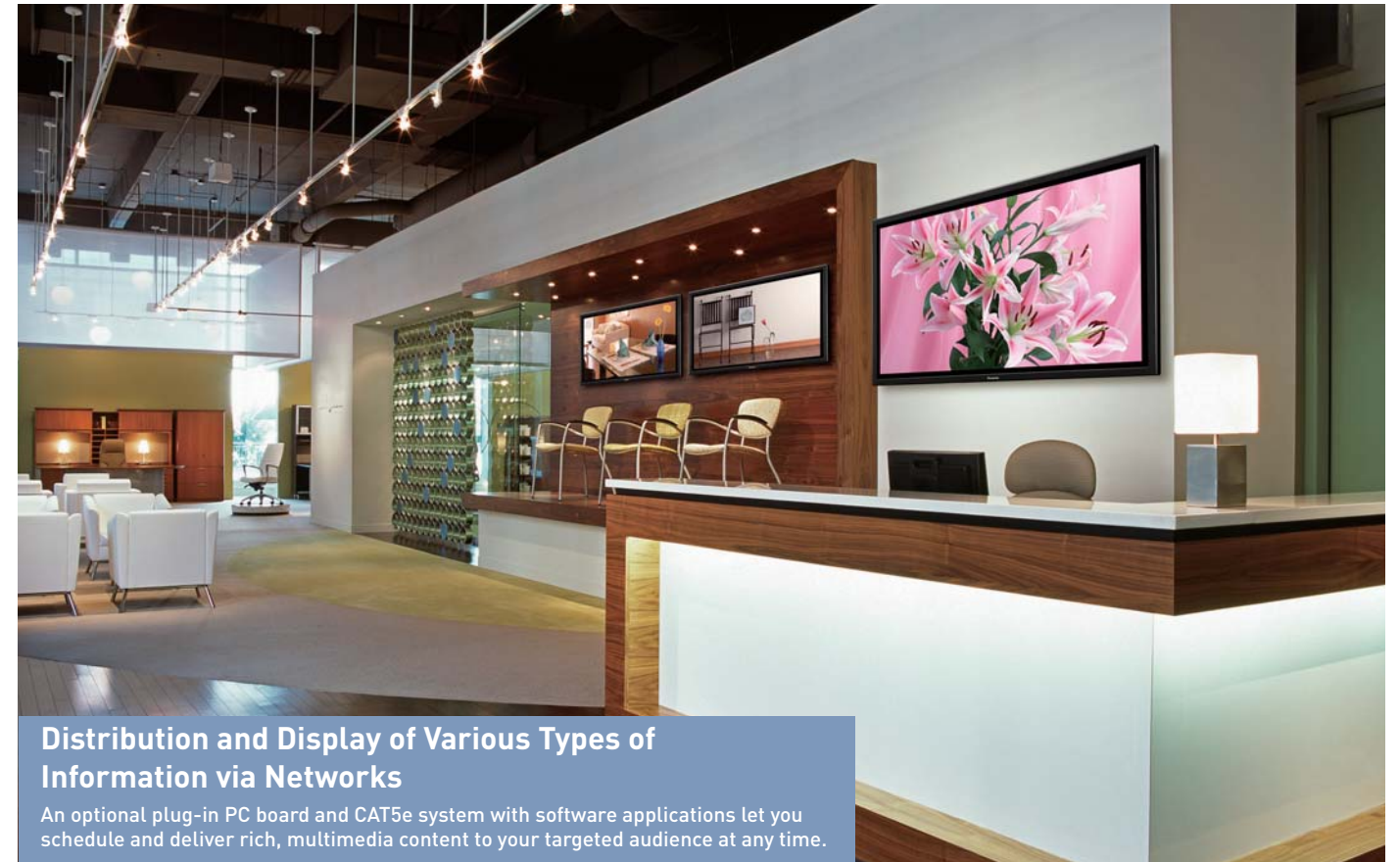
This mode lets you overlay a video image onto a full-screen PC image. For example, you can combine a video clip with text information from a PC, giving you a more effective way to present information.



Note: Following combinations of two analog signals cannot be displayed: Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) - PC (RGB).

Text Overlay Function (PF11 & PH11 series)

Using an RS-232C interface enables you to overlay and display text onto video images. The display position, text and background colors, and text size can be set. When used in combination with the Weekly Command Timer, text can be registered in advance and displayed at predetermined times, making it ideal for digital signage applications.

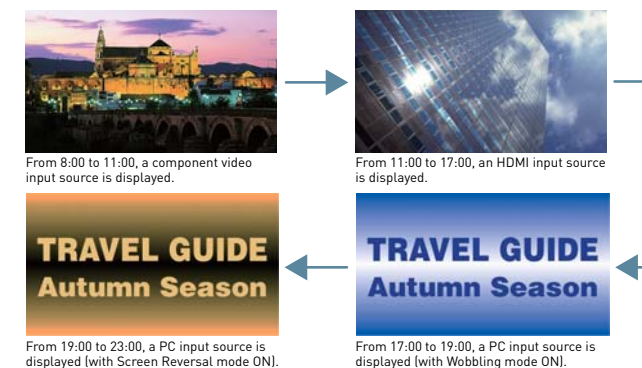


Distribution and Display of Various Types of Information via Networks

An optional plug-in PC board and CAT5e system with software applications let you schedule and deliver rich, multimedia content to your targeted audience at any time.

Weekly Command Timer

This function makes it easy to automate display operation so there's no need to use 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

In addition to the conventional display control command and power supply/input selection check command, Panasonic plasma displays feature a monitor command that 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.

Vertical Mounting

Panasonic professional plasma displays can be positioned vertically to display portrait images, allowing them to serve as effective storefront signboards. There's no need to install an optional fan kit. And the on-screen display can easily be rotated 90° for proper viewing*.

* The TH-103PF10 is not equipped with this function.



Enhanced Screen Saver Functions

A variety of screen saver functions help lower the risk of uneven phosphor aging.

- **SIDE PANEL ADJUSTMENT:** Brightens the black bands on the sides of the screen when displaying images in the 4:3 format.
- **WOBBLING:** Shifts the image's position by several pixels at fixed time intervals or according to the detected screen condition.
- **PEAK LIMIT MODE:** Lowers the peak brightness level (image contrast).
- **NEGATIVE IMAGE:** A negative image will be displayed on the screen.
- **SCROLLING BAR ONLY:** A white bar will scroll from left to right. The image won't be displayed.
- **OVERLAY SCROLLING BAR*:** The brightness of the image will be decreased and a white bar will scroll on it.
- **WHITE SCREEN*:** White will be displayed on full screen.

Note: OVERLAY SCROLLING BAR is not effective during Dual Picture Mode.
* The TH-103PF10 is not equipped with this function.

Cutting-Edge Functions for Effective Presentations



Multi-Presentation System Using the Wireless Presentation Board

Mounting the Wireless Presentation Board to a conference display unit allows wireless connection of up to eight displays and four PCs. This is enough to show images in every area of a conference hall. It also eliminates the bothersome task of removing and reconnecting cables when using multiple PCs.

Wireless Presentation Board (Option)

• No More Complicated Wiring

Simply install Wireless Manager software and make the network settings to set up your wireless network. There is no need for bothersome wiring. You can also connect up to four PCs to multiple displays for effective, interactive use by groups or for presentations.

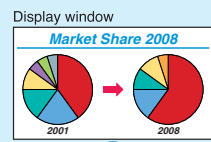
• High-Speed Wireless Transmission

High-speed wireless transmission provides smooth display of video clips, animation, and other types of large-volume data. Audio tracks are sent simultaneously, enabling dynamic presentations with active images and sounds.

* Sound is produced only when using a single, full-screen display of a single PC image.

• Versatile Display Methods for Impressive Presentations

The Secondary Display Transmission (wireless prompter) function lets you show presentation content on the display and a copy of your speaking notes on a PC.



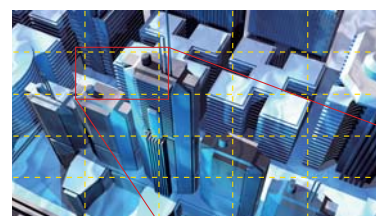
You can use the Area-Specific Transmission function to display any part of the PC window that you want, or to enlarge and display certain parts for emphasis.



4x Digital Zoom

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

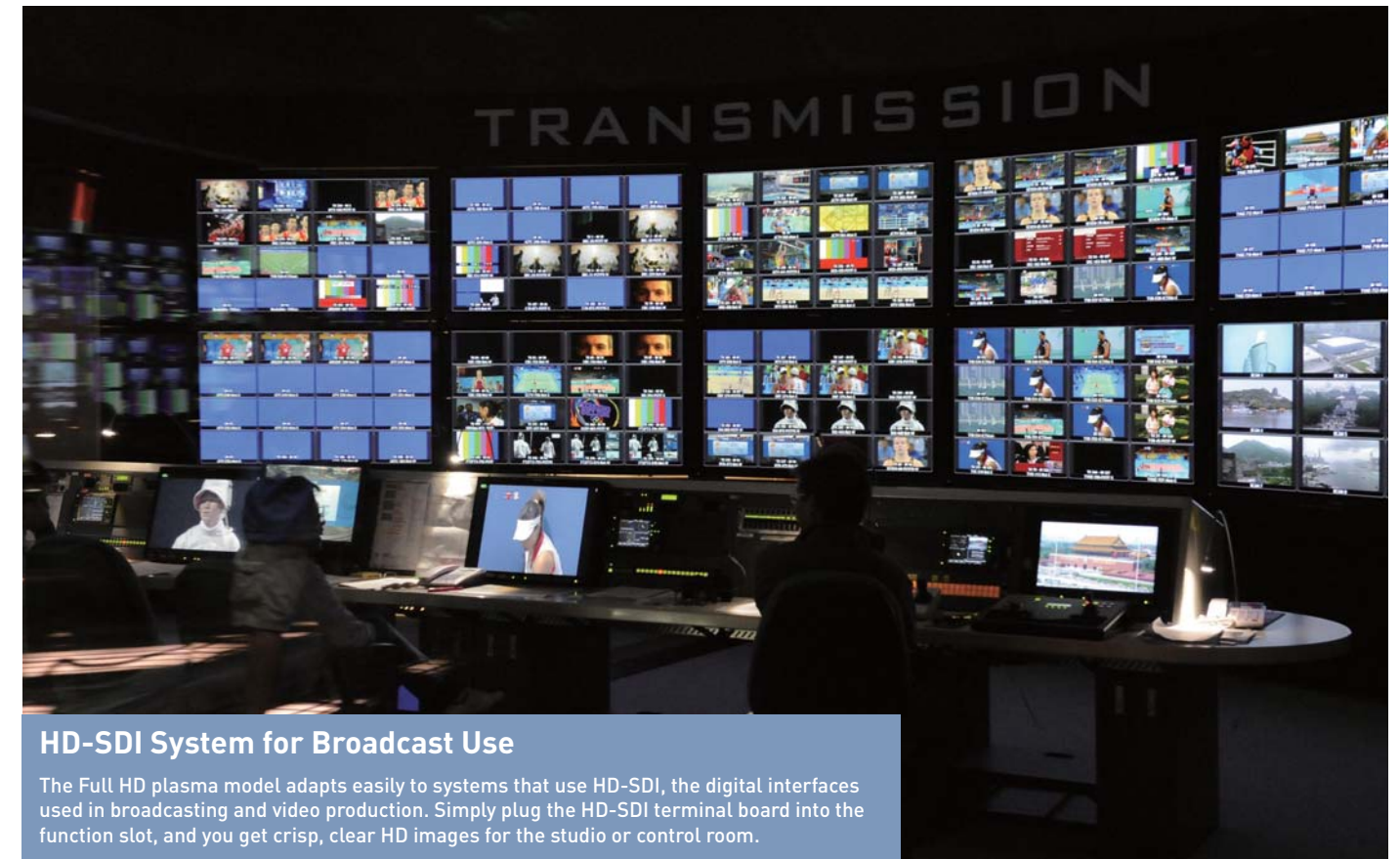
Note: Digital Zoom does not work in Dual Picture mode. Images of SXGA resolution or higher from a PC or RGB source may not enlarge correctly. Some degradation occurs when images are enlarged.



Automatic Picture Positioning

This function automatically corrects the horizontal and vertical picture positions, clock phase, and dot clock when an analog RGB signal is input. The adjustment results in optimal standard values for the horizontal and vertical picture sizes.

Advanced Functions Suitable for Use in Broadcast Stations



HD-SDI System for Broadcast Use

The Full HD plasma model adapts easily to systems that use HD-SDI, the digital interfaces used in broadcasting and video production. Simply plug the HD-SDI terminal board into the function slot, and you get crisp, clear HD images for the studio or control room.

Monitor Mode

This mode displays images without changing the brightness within the same signal level range even if the average picture level (APL) of the screen varies. Since this mode maintains white balance regardless of the size of bright areas in the image, it is suitable for use in broadcasting stations and image production studios in which precise color reproduction is essential.

Note: This mode is not provided on the TH-103PF10, TH-50PH11 and TH-42PH11.

1:1 Pixel Mode (PF series only)

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.

Energy-Saving Functions

A broad range of environment-friendly functions help minimize energy consumption.

• DPMS (Display Power Management Signaling): Power is automatically turned on or off in response to a sync signal from the PC connected to the built-in PC input terminal.

Ideal as a Studio Monitor for News Programs

By combining an HD plasma display model with a touch-panel and HD-SDI terminal board, you can construct a studio monitor system for effectively displaying meteorological information. By using the touch-panel, the weather forecaster can add handwritten information and marks to the clear image displayed on the plasma display panel. This ushers in a brand new style of easy-to-understand weather forecasts.



Studio W/B Mode

This lets you set the color temperature that best matches applications in broadcast stations and studios.

Studio Gain Mode

This mode increases the contrast to eliminate whiteout.

- Auto Power Off: When you're using a device connected to the multi-function slots, the display panel goes into standby mode after about 10 minutes if no sync signal is received.
- Power Save Mode: Reduces the display's brightness.
- Standby Power Save Mode: Reduces power consumption when on standby. (Start-up may take a few moments once the display is in this mode.)

List of Compatible Functions

| Model | Portrait Zoom | Multi Display | Power-On Delay | Multi AI Control | Blend Dual Picture | Dual Picture Mode | Text Overlay | Weekly Command Timer | Remote System Monitoring | Vertical Mounting | Screen Saver | 4x Digital Zoom | Automatic Picture Positioning | Monitor Mode | 1:1 Pixel Mode | Studio W/B Mode | Studio Gain Mode | Energy-Saving Functions |
|------------|---------------|---------------|----------------|------------------|--------------------|-------------------|--------------|----------------------|--------------------------|-------------------|--------------|-----------------|-------------------------------|--------------|----------------|-----------------|------------------|-------------------------|
| TH-103PF10 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TH-65PF11 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TH-58PF11 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TH-50PF11 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TH-50PH11 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TH-42PF11 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| TH-42PH11 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

●: Compatible

Industry's Best Expandability

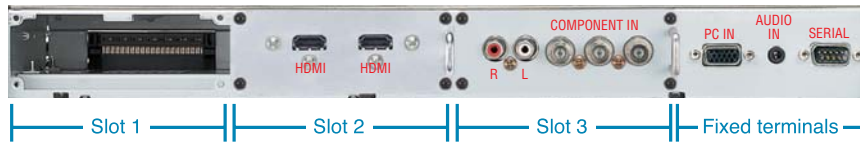
Multi-Function Slots

In addition to the fixed input interface, the Panasonic plasma display has three interchangeable slots that let you add different combinations of optional terminal boards. This gives you the flexibility to add digital or analog capabilities, as necessary, and to customize your system for specific needs.

Standard-Equipped Terminals

You can mount optional terminal board in a vacant slot. Or, you can remove the standard terminal boards and mount optional boards.

TH-103PF10WK
TH-65PF11WK
TH-58PF11WK
TH-50PF11WK
TH-42PF11WK



TH-50PH11AK
TH-42PH11AK



Optional Terminal Boards

Dual HDMI Terminal Board (mounts in slot 1 or 2)

TY-FB10HMD



- Enables fully digital connection of signals from HDMI-compatible DVD players and other digital equipment for blur-free images with no color bleeding.
- Provides simultaneous video and audio signal transmission using a single cable.

HDMI Terminal Board (mounts in slot 1 or 2)

TY-FB8HM



RGB Active Through Terminal Board (mounts in slots 1 & 2)

TY-42TM6G



- Sends the signal that's input via the PC IN terminal to a second display connected to the PC OUT terminal. This connectivity adds convenience when configuring a multi-screen system.

The characters in red are added for explanation.

DVI-D Terminal Board (mounts in slot 1 or 2)

TY-FB11DD (for PF11/PH11 series)

TY-FB9FDD (for PF10 series)

TY-42TM6D (for PH11 series)



* Photo shows TY-FB11DD.

- Lets you connect a PC or other compatible digital equipment that outputs digital RGB signals (DVI-D compliant).
- Supports HDCP.
- TY-FB9FDD is compatible with UXGA/WUXGA signals (compressed display).

Ir Through Terminal Board (mounts in any slot)

TY-FB9RT



Note: Only one terminal board can be used per display. Also, it can be used to control only Panasonic AV equipments.

PC Input Terminal Board (mounts in any slot)

TY-42TM6P



* Does not support the DPMS function.

BNC Dual Video Terminal Board (mounts in slot 1 or 2)

TY-FB9BD



BNC Component Video Terminal Board (mounts in any slot)

TY-42TM6A



BNC Composite Video Terminal Board (mounts in slot 1 or 2)

TY-42TM6B



Composite/Component Video Terminal Board (mounts in slots 1 & 2, or slots 2 & 3)

TY-42TM6Y



RCA Component Video Terminal Board (mounts in any slot)

TY-42TM6Z



RCA Composite Video Terminal Board (mounts in slot 1 or 2)

TY-42TM6V



SCART Terminal Board (mounts in slot 1 or 2)

TY-FB8SC



U/V Tuner Board (mounts in slots 2 & 3)

TY-FB8TA

Applicable models: PH series

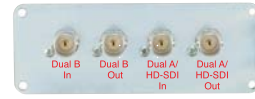


- Hotel Mode allows you to set the Volume Limit and Initial Input/Channel.
- Receiving system: 17-systems
- Remote control unit included.
- The Ir Through terminal lets you use the IR sensor on the PDP to control both the PDP and video device.



Dual Link HD-SDI Board (mounts in slot 1 or 2)

TY-FB11DHD



- Supports the high-resolution, high-quality Dual Link HD-SDI (in compliance with SMPTE372M) and the HD-SDI (in compliance with SMPTE292M) used in broadcasting.
- Allows direct input of 2K digital cinema signals* in compliance with DCI (Digital Cinema Initiatives) without using a converter.
- Compatible with RGB 4:4:4/YPbPr 4:2:2@60p, 50p/2K digital cinema signals in compliance with DCI.
- Provides simultaneous video and embedded audio (max. 16 channels)* signal transmission using a single cable.
- * Only when signals are multiplexed in Dual Link HD-SDI Link A.

Max Transmission Distance/Recommended Cable

100 m*/75-ohm coaxial cable 5C-FB
* When using a cable with less than 20dB/328 ft. (750 MHz)

HD-SDI Terminal Board with Audio (mounts in slot 1 or 2)

TY-FB10HD

HD-SDI Terminal Board (mounts in slot 1 or 2)

TY-FB9HD

SDI Terminal Board (mounts in slot 1 or 2)

TY-FB7SD

Max Transmission Distance/Recommended Cable

SD-SDI: 200 m/75-ohm coaxial cable 5C-2V
HD-SDI: 100 m/75-ohm coaxial cable 5C-FB



Wireless Presentation Board (mounts in slots 1 & 2, or slots 2 & 3)

TY-FB10WPE



- Wireless connection (IEEE 802.11b/11g) eliminates the need to connect any cables between the display and a PC.
- High-speed wireless transmission produces smooth motion images.
- Images from one PC can be displayed in real-time on as many as eight displays.
- Images from up to 16 PCs can be simultaneously displayed onto a single screen.
- Plasma displays can be controlled using a Web browser.
- The Wireless Presentation Board also accepts component video and audio inputs.



Note
• Normal operation may not be possible when the board is combined with another application (such as an image rotating utility) using the image data.
• This board cannot be used in some countries.

Specifications

| | |
|----------------------|------------------|
| Standards compliance | IEEE 802.11b/11g |
| Frequency range | 2.4 GHz |

System Configuration Required by Wireless Manager ME 4.0

| | |
|-------------------|--|
| OS | Microsoft Windows 2000 Professional/XP Home Edition/XP Professional |
| CPU | Intel Pentium III 600 MHz or faster (or compatible processor) (Processing speed of 800 MHz or faster recommended for Live mode) |
| Memory | 256 MB or more |
| HDD | 60 MB or more of available disk space |
| Required hardware | • CD or DVD drive (for installing software and browsing the instruction manual) • A correctly operating built-in wireless LAN function or external wireless LAN adaptor supporting IEEE 802.11b/g |
| Web browser | Microsoft Internet Explorer 6.0 or newer, Netscape Communicator 7.0 or newer |

* Microsoft, Windows and PowerPoint are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Intel and Pentium are either trademarks or registered trademarks of Intel Corporation in the United States and/or other countries.

Specifications

| TY-FB11DHD | |
|----------------------|--|
| Standards compliance | Video: SMPTE372M, SMPTE292M; Audio: SMPTE299M, SMPTE272M |
| Applicable displays | PF11 series |

Compatible Video Signal

| Signal format | Sampling structure/Number of pixel bits | SDI name |
|------------------------------|---|------------------|
| 750 (720)/60p: 59.94p | YCaCa (4:2:2)/10-bit | HD-SDI |
| 750 (720)/50p | | |
| 1,125 (1,080)/60i: 59.94i | | |
| 1,125 (1,080)/50i | | |
| 1,125 (1,080)/30p: 29.97p | | |
| 1,125 (1,080)/25p | RGB (4:4:4), RGB + A (4:4:4:4) ¹ /10-bit YCaCa (4:4:4), YCaCa + A (4:4:4:4) ¹ /10-bit RGB (4:4:4), YCaCa (4:2:2), YCBCR (4:4:4)/12-bit ² | Dual-Link HD-SDI |
| 1,125 (1,080)/24p: 23.985p | | |
| 1,125 (1,080)/24sF: 23.985sF | | |
| 1,125 (1,080)/60i: 59.94i | | |
| 1,125 (1,080)/50i | | |
| 1,125 (1,080)/30p: 29.97p | YCaCa (4:2:2)/10-bit | |
| 1,125 (1,080)/25p | | |
| 1,125 (1,080)/24p: 23.985p | RGB (4:4:4), X'Y'Z' (4:4:4)/12-bit ² | |
| 1,125 (1,080)/24sF: 23.985sF | | |
| 1,125 (1,080)/60p | YCaCa (4:2:2)/10-bit | |
| 1,125 (1,080)/50p | | |
| 2,048 x 1,080/24p: 23.985p | RGB (4:4:4), X'Y'Z' (4:4:4)/12-bit ² | |

*1: A (Alpha channel) is not supported. This data cannot be output.

*2: A 12-bit signal can be received, but it will be converted to a 10-bit signal for the display of images.

- Supports the serial digital interface (SDI) used in broadcasting.
- The TY-FB10HD provides simultaneous video and audio signal transmission using a single cable.
- The TY-FB10HD and TY-FB9HD support HDTV.

Specifications

| | TY-FB10HD | TY-FB9HD | TY-FB7SD |
|-------------------------|--|---|-----------------------|
| Standards compliance | SMPTE292M, SMPTE259M-C | | |
| Compatible video format | 525/59.94i, 625/50i, 750/60p: 59.94p, 750/50p, 1125/30p, 1125/25p, | 1125/24p, 1125/60i: 59.94i, 1125/50i, 1125/24sF: 23.985sF | 525/59.94i 625/50i |

Main Functions

• Live Mode

Images from one PC can be shown in real-time over the entire display.

• Multi-Display Live Mode

Images from one PC can be sent by wireless transmission to as many as eight displays in real-time.



Up to four PCs can be used.

• Multi-Live Mode

Images from up to 16 PCs can be shown together, in real-time, on the same display. (This can also be combined with Multi-Display Live mode.)

• Secondary Display Transmission

This function transmits a secondary window from the PC. For example, it lets you display the Notes window from Microsoft PowerPoint onto your PC screen while showing the corresponding Slide Show on the display.

• Area-Specific Transmission

Enlarges and displays only desired parts of the PC screen.

• Web Browser Control

This function lets you control the display from your Web browser, for operations such as power on/off, input selection, and sound volume adjustment.

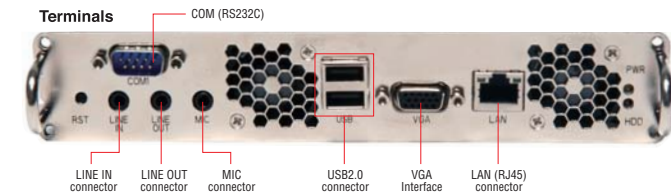
PDP Controller

ETX-1312C series (Mounts in slots 1 & 2, or slots 2 & 3)



- Compact 2-slot width plug-in PC to facilitate turnkey solutions.
- Does not require any external power sources or any external brackets.
- Supports Compact Flash Cards.
- Supports VGA output for additional display.

*The PDP Controller cannot be combined for use with other terminal boards.



| Model number | ETX-1312C1000 | ETX-1312C600 | ETX-1312C1000-XPE | ETX-1312C600-XPE |
|------------------------|--|-----------------------------|-------------------------------------|-----------------------------|
| Slot compatibility | | | requires slots 1 & 2 or slots 2 & 3 | |
| Processor | ULV Pentium Celeron 1 GHz | ULV Pentium Celeron 600 MHz | ULV Pentium Celeron 1 GHz | ULV Pentium Celeron 600 MHz |
| Memory | 512 MB RAM (DDR SO-DIMM) | | | |
| Internal HDD | 40 GB HDD (2.5" HD) | | | |
| Interfaces | 1 x LAN, 2 x USB 2.0, 1 x Serial, 1 x Line In/Out, 1 x Mic In, 1 x VGA Out | | | |
| Pre-installed OS | Windows XP embedded | | | |
| Dimensions (W x H x D) | 203 x 32 x 125 mm | | | |
| Power supply | Supplied from the plasma display | | | |
| Standards | FCC, CE, RoHS | | | |

DVB-T Digital Tuner Board

TY-FB11DTA (mounts in slots 2 & 3)

This board can be used in Australia only and cannot be used on the TH-103PF10.



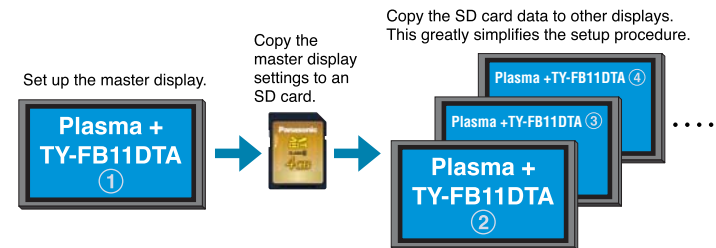
- Mounts in the function slot to save space.
- Equipped with an HDMI input terminal and video/audio output terminals for easy connection of external devices.
- A 5.1-channel speaker system can be connected to the optical digital audio output terminal.
- Equipped with a clone function that copies display setting data to another display unit via an SD card (option).

| Model Number | TY-FB11DTA |
|-----------------------------|--|
| Product Name | DVB-T Tuner Board |
| Receiving Systems/Band Name | DVB-T 7 MHz VHF/UHF (Australia) free-to-air TV broadcast reception |
| Connection | AV IN HDMI TYPE A Connector |
| Terminals | DIGITAL AUDIO OUT PCM/Dolby Digital, Fiber optic VIDEO OUT RCA PIN Type 1.0 Vp-p (75 ohms) AUDIO OUT M3 PIN Type L/R 0.5 Vrms Ir SYSTEM Ir System or through out (Setting selected using the DIP switches) SD Card Slot Used for servicing |

Main Features

• Clone Function

You can easily clone settings with an SD card. Simply download the programming settings from one display into the card and use it to install them to as many displays as you wish. This keeps them all uniform and slashes installation time.



• External Control

Operations such as selecting reception channels and power ON/OFF of the main unit are possible using the serial terminal on a display provided with a tuner board.

• Hotel Mode Set Up

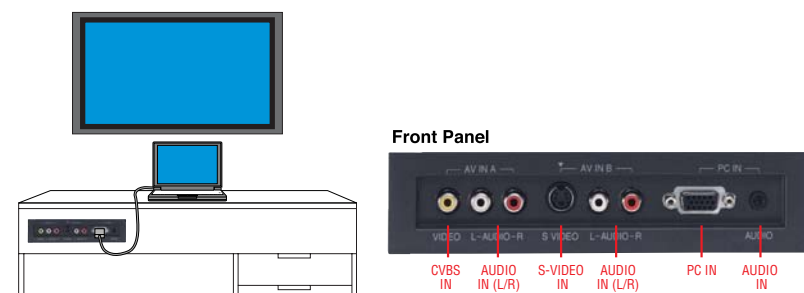
| | |
|-------------------|---|
| Initial INPUT | Sets the input at power-on. |
| Initial POS | Sets the service at power-on. |
| Initial VOL Level | Sets the volume level at power-on. |
| Maximum VOL Level | Sets the volume level so that it will not exceed the maximum setting. |
| OSD OFF | Sets whether to display the tuner's information display at power on. |
| Button Lock | Restricts the operation of the buttons on the display units. |
| Remote Lock | Restricts the operation of the tuner's remote control MENU button. |
| ES Timer | Sets the time when the power of the display unit is to be automatically turned off when no remote control operations for the tuner are performed. |

AV Terminal Box

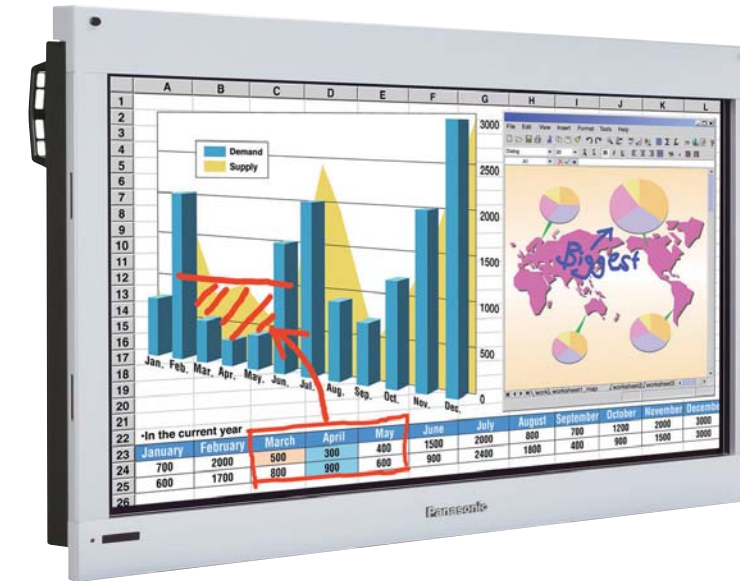
TY-TB10AV



- Ideal for hotel guest rooms. Two input terminals (VIDEO/RGB) allow guests to easily connect and use their own notebook PC, portable DVD player, or other device.
- The TY-TB10AV can also be built into a desk or a bed sideboard.



Touch Panel



Touch Panel (CMOS Camera Detection System)

- TY-TP65P10S (for TH-65PF11WK)
- TY-TP58P10S (for TH-58PF11WK)
- TY-TP50P10S (for TH-50PF11WK/50PH11AK)
- TY-TP42P10S (for TH-42PF11WK/42PH11AK)

- High resolution
- High scan speed
- Dividable frame system for compact packaging

Note: The touch panel does not include a drawing application. You cannot mount both a TY-TP65P10S, TP58P10S or TP50P8-S Touch Panel and an Anti-Glare Filter at the same time. Do not use the touch panel near windows or other locations where external light is directly reflected. Otherwise, operating errors may result.

Specifications

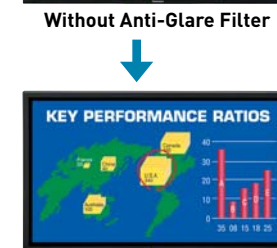
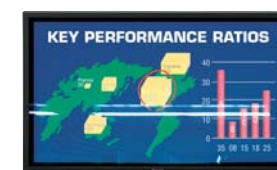
| Model Number | TY-TP42P10S | TY-TP50P10S | TY-TP58P10S | TY-TP65P10S |
|---------------------------------|---|---------------------------|---------------------------|-----------------------------|
| Power source | + 5 V DC ± 10% | | | |
| Electric current | Max. 450 mA | | | |
| Supply system | From USB bus | | | |
| Detection system | Infrared retroreflective detection | | | |
| Panel window (W x H) | 938 x 535 mm | 1,128 x 648 mm | 1,305 x 747.5 mm | 1,449 x 819 mm |
| Detection range (W x H) | 920 x 518 mm | 1,106 x 622 mm | 1,287 x 723.5 mm | 1,434 x 807 mm |
| Effective detection range | Same as above | | | |
| Resolution | Approx. 32,000 (W) x 18,000 (H) points ^{*1} | | | |
| Output system | Coordinate output | | | |
| Optic elements | Infrared LED x 4, CMOS image sensor x 2 | | | |
| Minimum detection size | 7 mm | 8 mm | 9 mm | 10 mm |
| Response rate | 100 points/sec | | | |
| Interface | USB 2.0 full speed device Signals: +DATA, -DATA, VCC, GND Connector: Type B | | | |
| Resistance to external light | Lateral light: 2,000 lx ± 20% (20° angle of incidence) Frontal light: 10,000 lx ± 20% (90° angle of incidence) | | | |
| External dimensions (W x H x D) | 1,016.4 x 686 x 47.9 mm | 1,206.4 x 798.6 x 47.9 mm | 1,395.4 x 923.1 x 47.9 mm | 1,550.8 x 1,008.2 x 47.9 mm |
| Mass | Approx. 4.1 kg | Approx. 4.6 kg | Approx. 5.8 kg | Approx. 6.7 kg |
| Escutcheon material | Aluminum | | | |
| Applicable OS | Microsoft® Windows® 2000, Windows® XP, Windows® Vista (32 bit) | | | |

*1: Resolution obtained by using a dedicated Driver software.

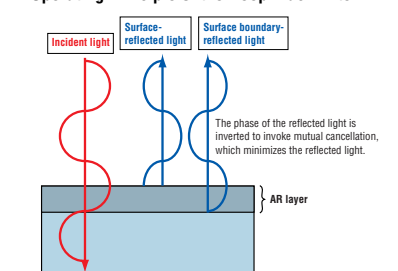
Anti-Glare Filter

- TY-AR65P9W (for TH-65PF11WK)
- TY-AR58P10W (for TH-58PF11WK)
- TY-AR50P9W (for TH-50PF11WK)
- TY-AR42P9W (for TH-42PF11WK)

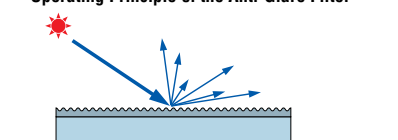
- Mounting this filter to the front of the plasma display reduces glare from external light and reflections from fluorescent lighting, to maintain an easy-to-see screen at all times.
- It also suppresses the transmission of visible light rays and improves contrast, to provide sharp, crisp images.
- An anti-glare film is used that has excellent physical characteristics, such as preventing static electricity and resisting surface abrasion (with a surface hardness of 2H).



Operating Principle of the Deep Black Filter

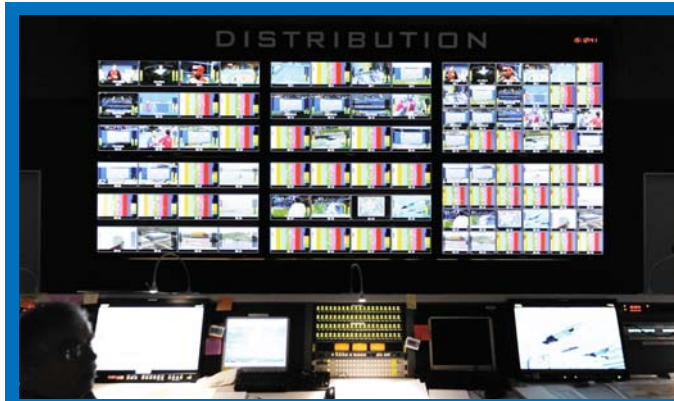


Operating Principle of the Anti-Glare Filter



An Endless Array of Applications

TV PRODUCTION



Beijing 2008 Olympic International Broadcasting Center
Beijing, China
6 x 103", 36 x 65"

Plasma displays were used in the Master Control Room, where footage from each of the venues was controlled and monitored, and then delivered to the broadcast booths of the respective countries. Large-screen, flat-panel models allowed multiple images to be shown on a multi-screen display as high-definition, distortion-free images. Also, compared to installing a large number of small CRT monitors, the plasma displays were able to save considerable space.



Asahi Broadcasting Corporation
Osaka, Japan
1 x 50", Touch Panel

This combination of a high-definition plasma display, touch panel, and HD-SDI terminal board is used as an HD weather system. An easy-to-follow weather forecast format has been established, with the newscaster writing directly on the clear screen.

PASSENGER INFORMATION



Shanghai Metro People's Square Station
Shanghai, China
10 x 103"

Ten plasma displays for use as digital signage were installed at a subway transfer building, which is used by over 500,000 people a day. Compared to conventional illuminated signboards, these displays give advertising a much greater visual effect due to their moving images. This allows them to attract more attention to the information that they transmit.



Japan Airline Corporation at Haneda Airport
Tokyo, Japan
146 x 50"

From Haneda Airport's departure lobby to the departure security check area, the standby counter, and the boarding gates, there are a total of 146 displays that deliver different content according to their location. The straightforward, step-by-step content of these displays smoothly guide passengers to their destination.



EDUCATION



Los Halcones
Medellin, Colombia
3 x 50"

Three plasma displays were installed at Los Halcones in Colombia to simulate the windshield of a plane. By creating a realistic flight environment, the monitors help to train pilots who will fly private planes. Panasonic displays were selected due to their easy installation, versatility, and updating ability, and because of the close fit of the monitor edges. The plasma display resolution allows realistic simulations and enable effective testing. The flight simulators have been so helpful that other branches of the school have requested additional information on Panasonic products.



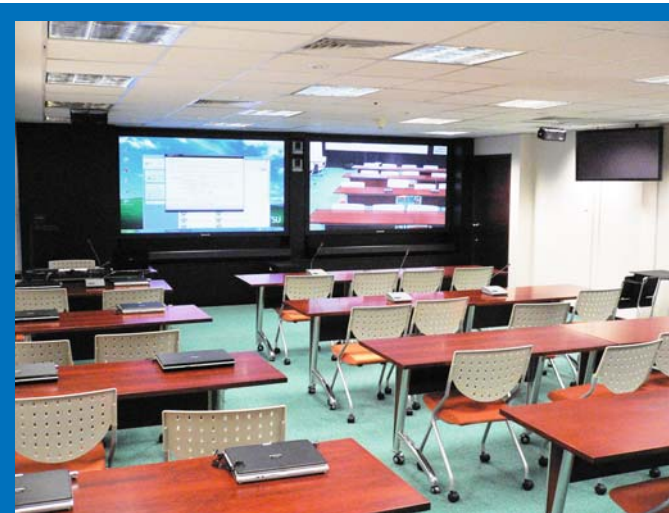
Kokushikan University
Tokyo, Japan
1 x 103"

This 103-inch display, which was installed in the AV hall of the university's library, offers accurate, clear views of various academic information. Effective use of advanced multimedia visual aids is helping to support study and research, raise the quality of lectures, and motivate students to learn.

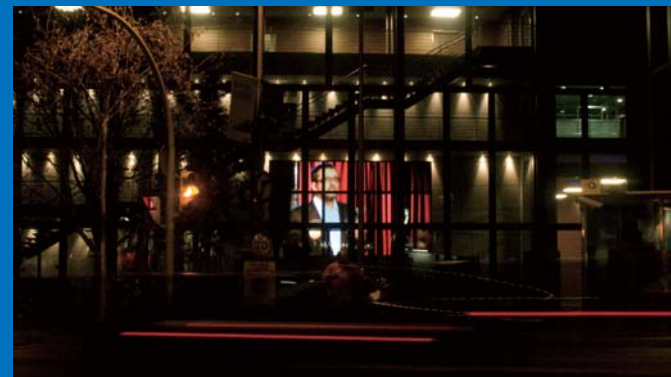


National University of Singapore
Singapore
2 x 103"

The previous projector system in the lecture room was replaced by these plasma displays. By solving problems such as the instructor's shadow covering the screen and making it difficult to see the images, and not being able to see images clearly unless the room was dark, the new displays offer excellent clarity even in brightly lit rooms.

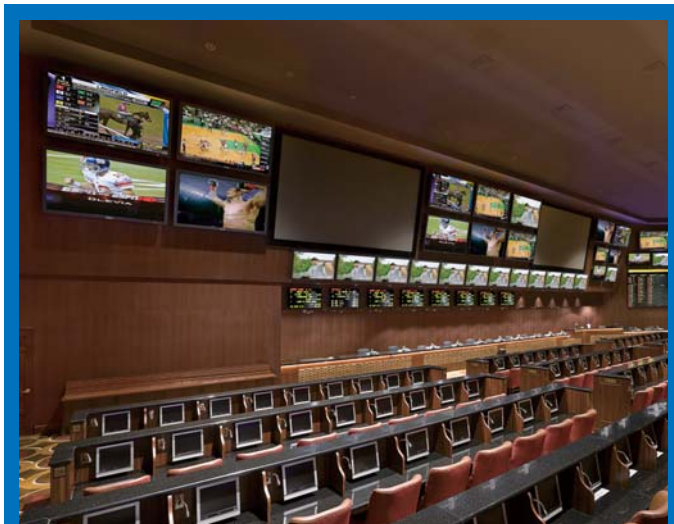


AMUSMENT

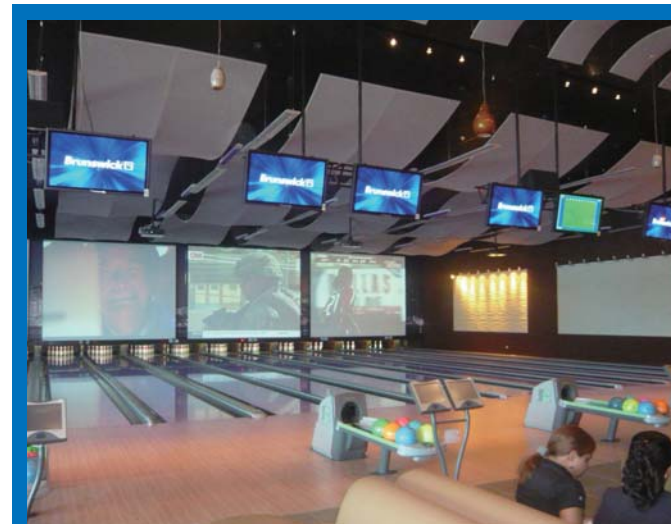


MEDIAPRO
Barcelona, Spain
9 x 103"

MEDIAPRO's newly built Production Center in Barcelona is the proud owner of the world's largest plasma display video wall. Nine Panasonic 103-inch full-HD displays have been installed in a 3 x 3 matrix in the reception area of their new offices. Visitors are captivated by dynamic moving images promoting the company's activities. The video wall can be seen from the street, and instantly draws attention to MEDIAPRO's new arrival in the area. It also emphasizes their dominance in Spain's media industry.



SAM'S TOWN
Las Vegas, USA



BENNIGAN'S
Panama City, Panama

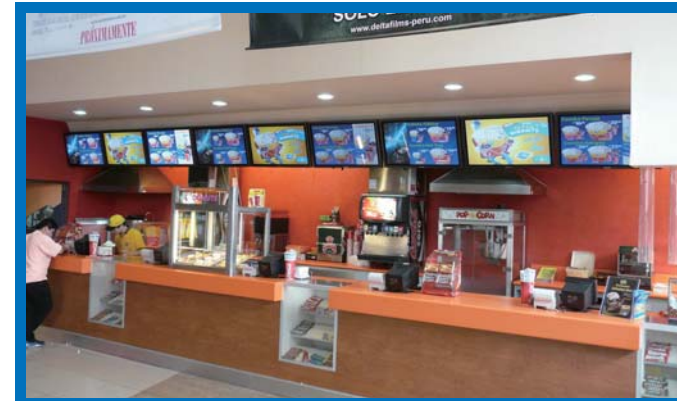
MEDICAL CARE



Ehime University Hospital
Ehime, Japan
12 x 50", 3 x 37"

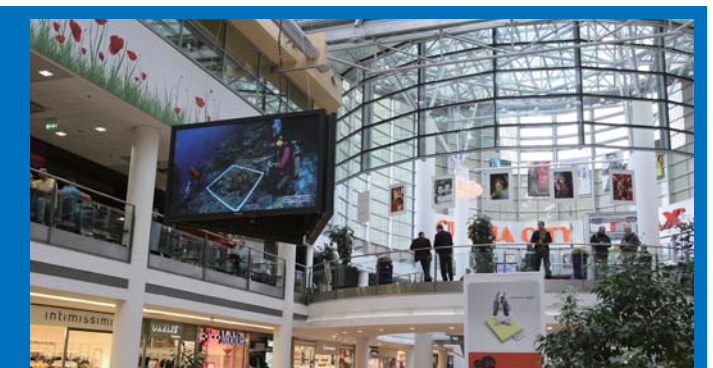
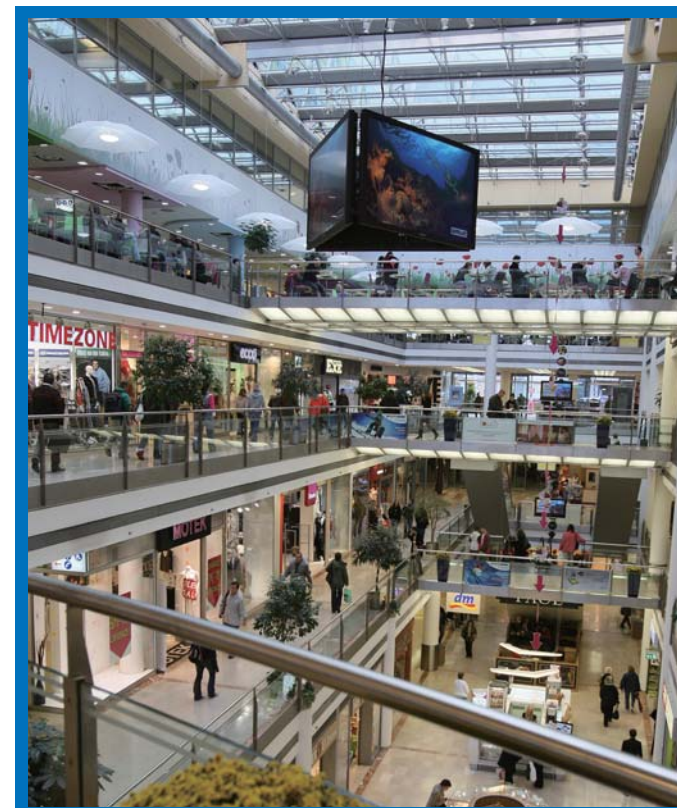
Plasma displays with superb color reproduction, uniform coloring, and high-speed image response are installed in the operating rooms. The 50-inch displays are being used as observation monitors for medical students.

DIGITAL SIGNAGE



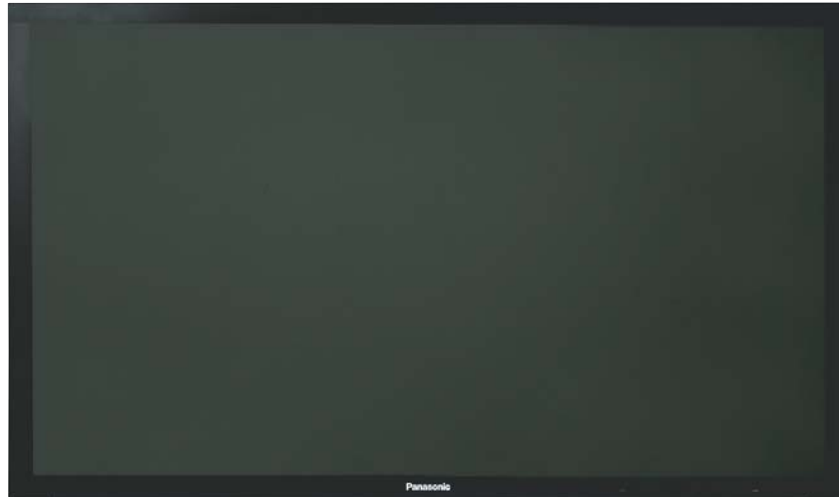
CINE Planet
Lima, Peru
12 x 42", 116 x 50"

CINE Planet, which is the No. 1 cinema chain in Peru, chose to use plasma displays for the menu boards of its fast-food shops because of their ability to accurately render the natural colors of the food items.



Flora Shopping Centre
Prague, Czech
3 x 103"

Full HD Models SPECIFICATIONS



TH-103PF10WK
TH-103PF10WL (Low-reflection model)
 103-inch (260 cm) diagonal
 Full High Definition Plasma Display



TH-65PF11WK
 65-inch (165 cm) diagonal
 Full High Definition Plasma Display



TH-58PF11WK
 58-inch (148 cm) diagonal
 Full High Definition Plasma Display

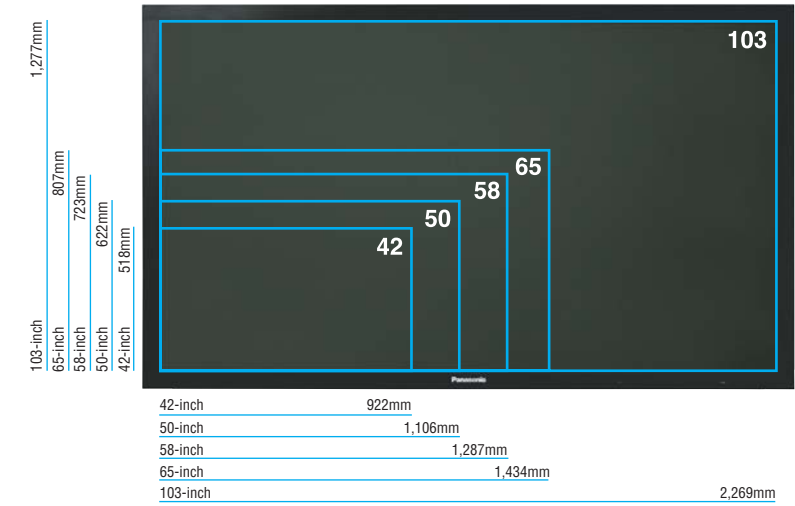


TH-50PF11WK
 50-inch (127 cm) diagonal
 Full High Definition Plasma Display



TH-42PF11WK
 42-inch (106 cm) diagonal
 Full High Definition Plasma Display

Screen Comparison



Specifications

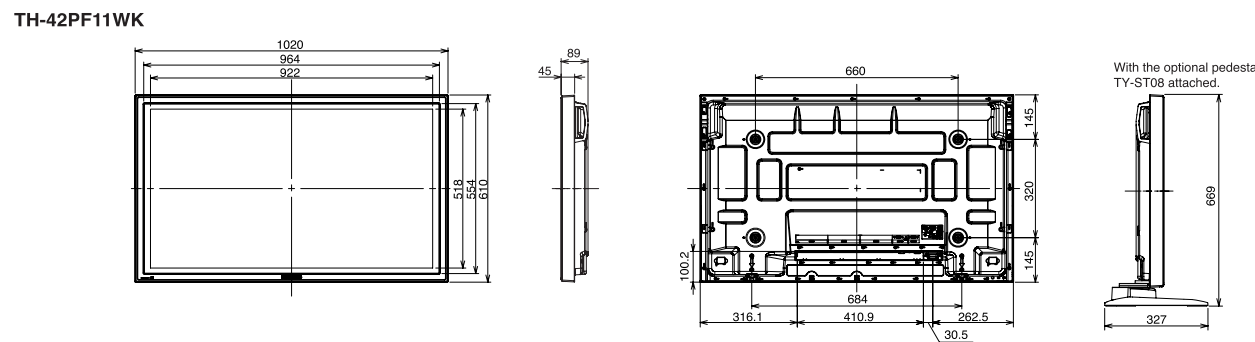
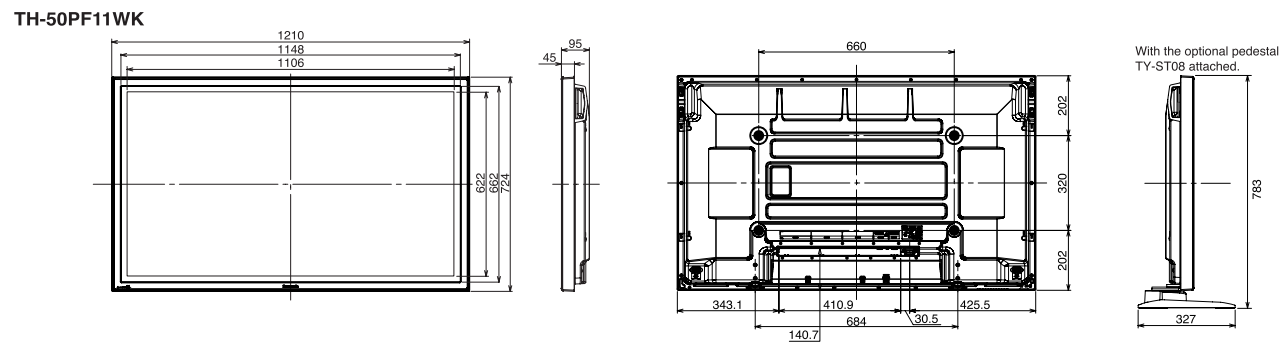
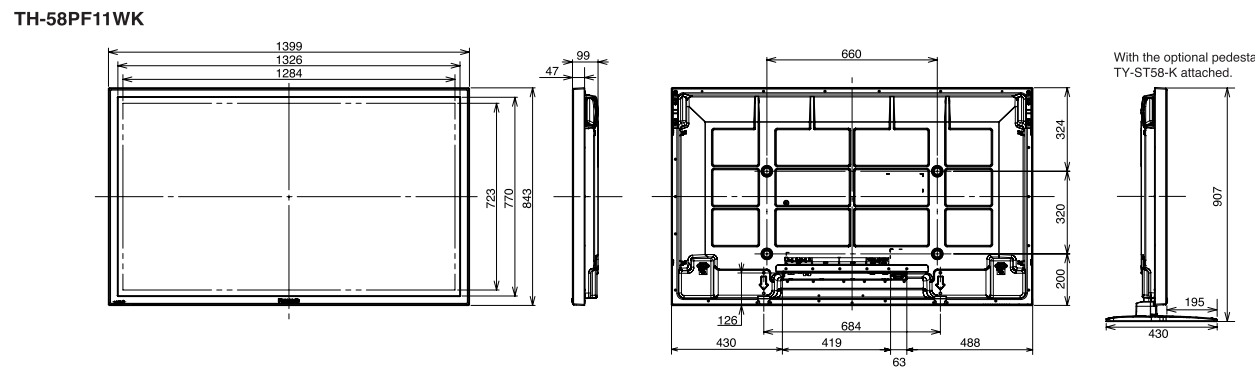
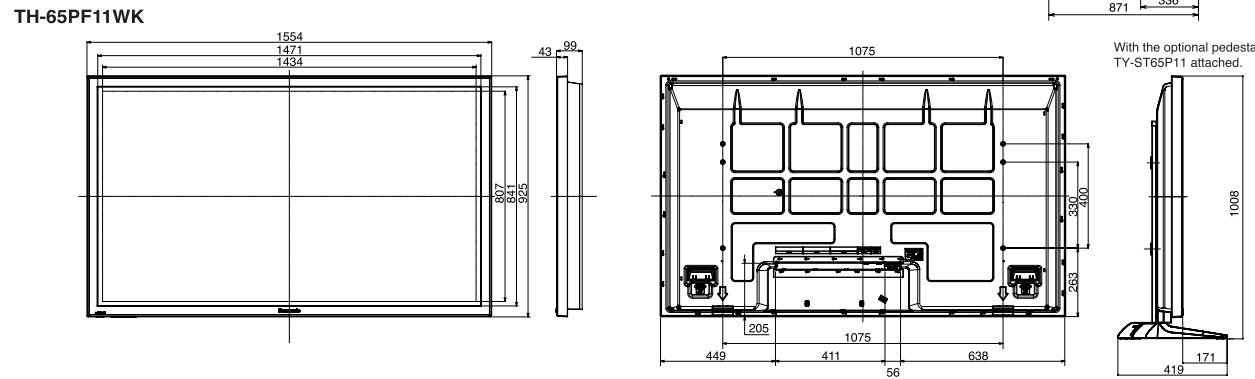
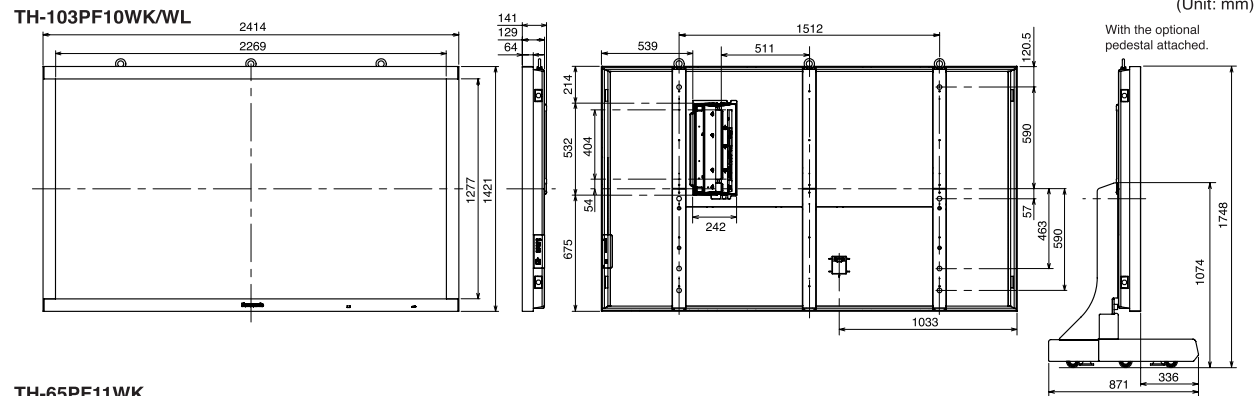
| | TH-103PF10WK/WL | TH-65PF11WK |
|--------------------------------|---|---------------------------------|
| DISPLAY | | |
| Screen Size (Diagonal) | 103-inch | 65-inch |
| Aspect Ratio | 16:9 | 16:9 |
| Effective Display Area (W x H) | 2,269 x 1,277 mm | 1,434 x 807 mm |
| Resolution (H x V) | 1,920 x 1,080 pixels | 1,920 x 1,080 pixels |
| Pixel Pitch (H x V) | 1.182 x 1.182 mm | 0.747 x 0.747 mm |
| Contrast Ratio | 5,000:1 | 30,000:1 |
| Gradation | 4,096 steps (equivalent) | 5,120 steps (equivalent) |
| SIGNAL COMPATIBILITY | | |
| Scan Rate | Horizontal frequency: 15 — 110 kHz; Vertical frequency: 48 — 120 Hz | |
| PC Signal Compatibility | VGA, SVGA, XGA, WXGA, SXGA, UXGA (UXGA: compressed) | |
| Video Signal Compatibility | 525 (480)/60i, 60p; 625 (575)/50i, 50p; 625 (576)/50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50i, 24p, 24sF, 25p, 30p, 60p, 50p; 1250 (1080)/50i | |
| INPUT/OUTPUT | | |
| Fixed Terminals | | |
| PC IN | Mini D-sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA DDC 2B) | |
| AUDIO IN | M3 jack x 1 | |
| SERIAL | D-sub 9-pin x 1, External control, RS-232C compatible | |
| Interchangeable Terminals | | |
| Slot1 | Vacant | Vacant |
| Slot2 | HDMI In x 2 | |
| Slot3 | Component In (BNC x 3, Analog RGB/Component), Audio In (L/R) (RCA pin jack x 2) | |
| ELECTRICAL | | |
| Power Requirements | 220 - 240 V AC, 50 Hz/60 Hz | 220 - 240 V AC, 50 Hz/60 Hz |
| Power Consumption | 1,550 W | 695 W |
| Power off condition | 0.5 W | 0.4 W |
| Stand-by condition | Save Off: 1.0 W, Save On: 0.9 W | Save Off: 1.2 W, Save On: 0.7 W |
| SOUND | | |
| Audio Output | Line Out (L/R) | |
| | | 20 W [10 W + 10 W] (10 % THD) |
| MECHANICAL | | |
| Dimensions (W x H x D) | 2,414 x 1,421 x 129 ¹ mm | 1,554 x 925 x 99 mm |
| Weight (approx.) | 220.0 kg | 68.0 kg |
| OPERATING ENVIRONMENT | | |
| Temperature | 0°C — 40°C | |
| Humidity | 20% — 80% (Non condensation) | |
| Altitude | 0 — 2,400 m | 0 — 2,800 m |
| RADIATION REGULATIONS | | |
| | CISPR22 Class-B | |
| SAFETY STANDARDS | | |
| | AS/NZS60065, SASO, IEC60065/SS, IEC60065/PAI, IEC60065 | |

*1: Exclusive of protruding portion (141 mm when including the protruding portion of the slot)

| | TH-58PF11WK | TH-50PF11WK | TH-42PF11WK |
|--------------------------------|---|---------------------------------|----------------------------------|
| DISPLAY | | | |
| Screen Size (Diagonal) | 58-inch | 50-inch | 42-inch |
| Aspect Ratio | 16:9 | 16:9 | 16:9 |
| Effective Display Area (W x H) | 1,287 x 723 mm | 1,106 x 622 mm | 922 x 518 mm |
| Resolution (H x V) | 1,920 x 1,080 pixels | 1,920 x 1,080 pixels | 1,920 x 1,080 pixels |
| Pixel Pitch (H x V) | 0.669 x 0.669 mm | 0.576 x 0.576 mm | 0.480 x 0.480 mm |
| Contrast Ratio | 30,000:1 | | |
| Gradation | 5,120 steps (equivalent) | | |
| SIGNAL COMPATIBILITY | | | |
| Scan Rate | Horizontal frequency: 15 — 110 kHz; Vertical frequency: 48 — 120 Hz | | |
| PC Signal Compatibility | VGA, SVGA, XGA, WXGA, SXGA, UXGA (UXGA: compressed) | | |
| Video Signal Compatibility | 525 (480)/60i, 60p; 625 (575)/50i, 50p; 625 (576)/50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50i, 24p, 24sF, 25p, 30p, 60p, 50p; 1250 (1080)/50i | | |
| INPUT/OUTPUT | | | |
| Fixed Terminals | | | |
| PC IN | Mini D-sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA DDC 2B) | | |
| AUDIO IN | M3 jack x 1 | | |
| SERIAL | D-sub 9-pin x 1, External control, RS-232C compatible | | |
| Interchangeable Terminals | | | |
| Slot1 | Vacant | Vacant | Vacant |
| Slot2 | HDMI In x 2 | | |
| Slot3 | Component In (BNC x 3, Analog RGB/Component), Audio In (L/R) (RCA pin jack x 2) | | |
| 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 |
| Power Consumption | 645 W | 555 W | 485 W |
| Power off condition | 0.4 W | 0.4 W | 0.4 W |
| Stand-by condition | Save Off: 1.2 W, Save On: 0.7 W | Save Off: 1.2 W, Save On: 0.7 W | Save Off: 1.2 W, Save On: 0.7 W |
| SOUND | | | |
| Audio Output | 16 W [8 W + 8 W] (10 % THD) | | |
| MECHANICAL | | | |
| Dimensions (W x H x D) | 1,399 x 843 x 99 mm | 1,210 x 724 x 95 mm | 1,020 x 610 x 89 ² mm |
| Weight (approx.) | 54.5 kg | 36.0 kg | 29.0 kg |
| OPERATING ENVIRONMENT | | | |
| Temperature | 0°C — 40°C | | |
| Humidity | 20% — 80% (Non condensation) | | |
| Altitude | 0 — 2,800 m | | |
| RADIATION REGULATIONS | | | |
| | CISPR22 Class-B | | |
| SAFETY STANDARDS | | | |
| | AS/NZS60065, SASO, IEC60065/SS, IEC60065/PAI, IEC60065 | | |

*2: Exclusive of protruding portion (99 mm when including the protruding portion of the slot)

Full HD Models DIMENSIONS



HD Models SPECIFICATIONS & DIMENSIONS



TH-50PH11AK
50-inch (127 cm) diagonal
High Definition Plasma Display



TH-42PH11AK
42-inch (106 cm) diagonal
High Definition Plasma Display

**Hospitality Models
Also Available**



TH-42PR11AK
42-inch HD Plasma model



TH-37PR11AK
37-inch HD Plasma model

Specifications

| | TH-50PH11AK | TH-42PH11AK |
|--------------------------------|--|---------------------------------|
| DISPLAY | | |
| Screen Size (Diagonal) | 50-inch | 42-inch |
| Aspect Ratio | 16:9 | 16:9 |
| Effective Display Area (W x H) | 1,106 x 622 mm | 922 x 518 mm |
| Resolution (H x V) | 1,366 x 768 pixels | 1,024 x 768 pixels |
| Pixel Pitch (H x V) | 0.810 x 0.810 mm | 0.900 x 0.675 mm |
| Contrast Ratio | 15,000:1 | |
| Gradation | 4,096 steps (equivalent) | |
| SIGNAL COMPATIBILITY | | |
| Scan Rate | Horizontal frequency: 15 — 110 kHz; Vertical frequency: 48 — 120 Hz | |
| PC Signal Compatibility | VGA, WVGA, SVGA, XGA, WXGA, SXGA, UXGA (WXGA and over resolution: compressed) | |
| Video Signal Compatibility | 525 (480)/60i, 60p; 625 (575)/50i, 50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50i, 24p, 24sF, 25p, 30p, 60p, 50p; 1250 (1080)/50i | |
| INPUT/OUTPUT | | |
| Fixed Terminals | Mini D-sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA DDC 2B) | |
| PC IN | Mini D-sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA DDC 2B) | |
| AUDIO IN | M3 jack x 1 | |
| SERIAL | D-sub 9-pin x 1, External control, RS-232C compatible | |
| Interchangeable Terminals | | |
| Slot1 | Vacant | Vacant |
| Slot2 | Vacant | Vacant |
| Slot3 | Vacant | Vacant |
| ELECTRICAL | | |
| Power Requirements | 220 - 240 V AC, 50 Hz/60 Hz | 220 - 240 V AC, 50 Hz/60 Hz |
| Power Consumption | 485 W | 365 W |
| Power off condition | 0.3 W | 0.5 W |
| Stand-by condition | Save Off: 1.5 W, Save On: 0.7 W | Save Off: 1.5 W, Save On: 0.9 W |
| SOUND | | |
| Audio Output | 16 W [8 W + 8 W] (10% THD) | |
| MECHANICAL | | |
| Dimensions (W x H x D) | 1,210 x 724 x 95 mm | 1,020 x 610 x 89 mm |
| Weight (approx.) | 34.0 kg | 25.0 kg |
| OPERATING ENVIRONMENT | | |
| Temperature | 0°C — 40°C | |
| Humidity | 20% — 80% (Non condensation) | |
| Altitude | 0 — 2,800 m | |
| RADIATION REGULATIONS | | |
| | CISPR22 Class-B | |
| SAFETY STANDARDS | | |
| | AS/NZS60065 | |

Dimensions

