

# Panasonic

ideas for life

## 10-Series Professional Plasma Displays

Superior Image Quality / Long Service Life / Ecologically-friendly Design

## Panasonic ideas for life

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Simulated pictures on screen.  
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USA07S-02

# The truly professional plasma displays

Panasonic plasma displays are designed with the superior panel performance and innovative features needed in professional applications. With models ranging from 37 inches to an industry-leading 103 inches, our lineup is broad enough to meet nearly every professional need. And Panasonic's signature multi-function slot system makes it possible to use our displays in almost any AV, PC or interactive environment, giving you outstanding versatility.

10,000:1

### High Contrast Ratio

Panasonic takes specifications to even higher levels with its incredible 10,000:1 contrast ratio,\* allowing our plasma displays to provide remarkable images in nearly any viewing environment. They reproduce beautiful images with tight, rich blacks – a hallmark of high-quality plasma displays – as well as smooth, natural tonal gradation and outstanding depth.

\* All models except the 103-inch model, which has 5,000:1 contrast ratio.

### Smooth, Crisp Motion Images

Panasonic plasma displays reproduce motion images with the high resolution needed to deliver the full beauty of high-definition broadcasts. Even fast-moving images are crisp, sharp, and smooth, perfect for viewing fast-paced content such as action movies and sports.

### Faithful Colors

Panasonic plasma displays provide superior color reproduction over every part of the image.



### Industry Leading Levels of Gradation

Detailed gradation is essential for reproducing smooth, natural colors. This is one of the keys to the unsurpassed image quality of Panasonic plasma displays. Achieving the equivalent of 4,096 gradation steps – which is industry leading – Panasonic plasmas render images with natural coloration, subtle nuancing and exquisite detail.

4,096 gradation steps

100%

### Lead-Free

Panasonic was first in the world to make totally lead-free plasma display panels. Eliminating lead reduces impact on the environment when the products are recycled or disposed of at the end of their service life.

100,000 hours

### Long Service Life

With Panasonic plasmas, the beauty lasts and lasts — thanks to a service life of about 100,000 hours.\* That's an amazing 42 years of normal viewing (6.5 hours per day) or 11.5 years of continuous use (24 hours per day). Unlike LCDs, plasma displays do not use a backlight whose brightness fades over time. This means they can provide bright, beautiful pictures over many years of use. Furthermore, the plasma display screen is covered by a glass panel for enhanced protection against impact and scratches.

\*The time until panel brightness is reduced to half its initial level, when displaying moving images in standard mode. Excludes afterimages and malfunctions. PH series offers a service life of about 60,000 hours.



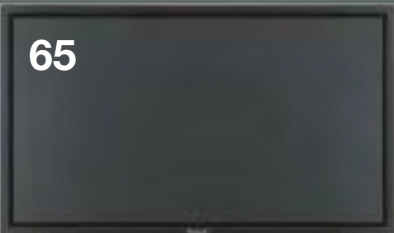
1080p

1080p

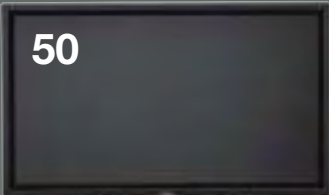
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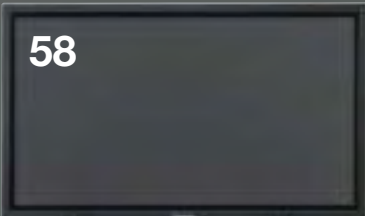
TH-103PF10UK



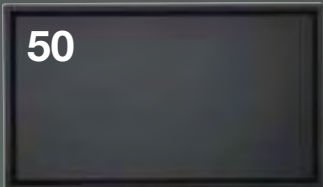
TH-65PF10UK  
1080p HD



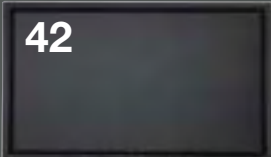
TH-50PF10UK



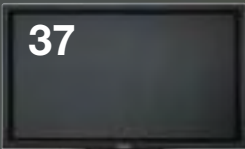
TH-58PH10UKA



TH-50PH10UKA



TH-42PH10UKA



TH-37PH10UK

Panasonic's wide-ranging lineup: From a 103-inch 1080p HD model to a 37-inch HD model

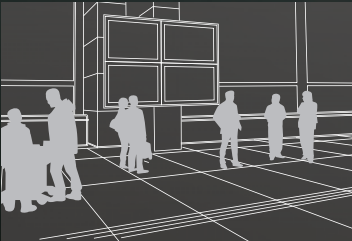
HD



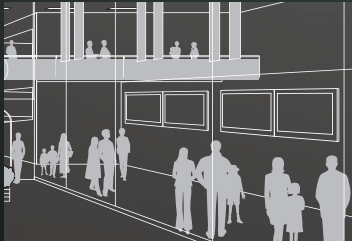


### Advanced Multi-Screen Capability

The multi-screen video wall capability has been expanded to a maximum of 5 x 5 screens – the most in the industry. This gives you a powerful, eye-catching way to present visual information at airports, shopping malls, and other large facilities. You can create a system that packs an incredible visual punch.



Airport



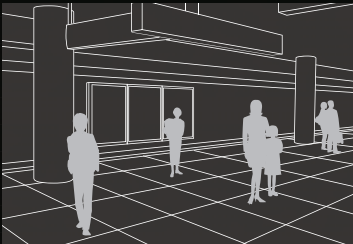
Shopping mall

## In Commercial Establishments Everywhere, You'll Find Panasonic Plasma Displays Delivering World-Class Performance

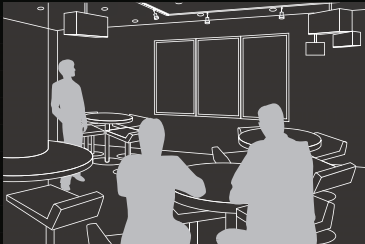
### Portrait Zoom

This function makes it easy to display portrait-oriented (vertical) images that were originally in a landscape (horizontal) orientation. It divides the original image into three vertical sections and displays one of those vertical sections in portrait orientation. This is useful in a multi-screen system with three display units. Set the three units side by side in portrait orientation, and you can use Portrait Zoom to display an enlarged three-part image that delivers outstanding visual impact. Use it to create dynamic movie previews or, in a system with three of Panasonic's huge 103-inch plasma displays, to promote a new car by showing life-size images of it. Portrait Zoom is compatible with all types of input signals, including HDMI, RGB, DVI, HD-SDI, component and composite.

Transportation

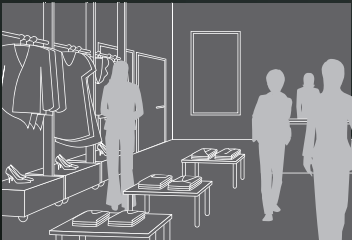


Amusement facility



*With three of Panasonic's industry-leading 103-inch models set side by side in portrait orientation, you can deliver information with a visual power and impact that conventional systems can't even approach.*

Boutique

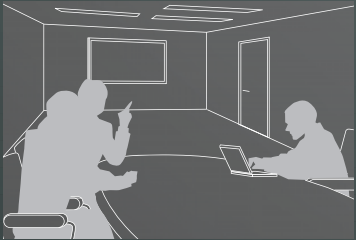


*A section of an image in landscape orientation can be "cut out" and displayed in portrait orientation on a huge 103-inch plasma display. In a boutique, for example, you could use this feature to display life-size images of fashion models on a catwalk.*

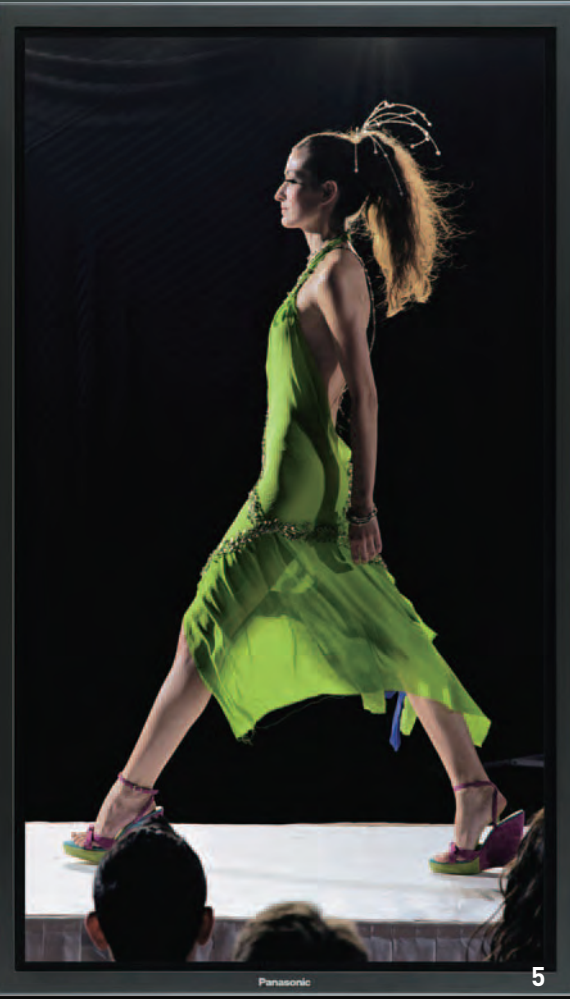


### Wireless Presentation Board

This board lets you display images with wireless ease via 802.11 b/g WiFi – no RGB cable connection is necessary. Each plasma display can be wirelessly connected to up to 16 PCs. Also, data from one PC can be transmitted to up to eight plasmas for simultaneous display. A wireless system takes a lot of the trouble out of getting ready for an important presentation. You can forget about preparing cables beforehand, and setup is smooth and quick. The wireless presentation board is especially convenient for use in conference rooms and schools.



Conference room





# Ultimate 1080p HD Plasma Displays with 10,000:1 Contrast, 4,096 Gradation Steps and 100,000-Hour Service Life

## 1080p



**TH-65PF10UK**  
65-inch (165 cm) diagonal  
1080p High Definition Plasma Display



**TH-50PF10UK**  
50-inch (127 cm) diagonal  
1080p High Definition Plasma Display



**TH-103PF10UK**  
103-inch (260 cm) diagonal  
1080p High Definition Plasma Display

## Explore a Wider World of Video Applications

### PRESENTATIONS

Panasonic 1080p HD models provide a big-screen display for data such as CAD images with outstanding clarity, detail and color accuracy. Able to display highly detailed documents and images with exceptional sharpness, Panasonic plasmas are suitable for use in conferences and presentations with large audiences.



### TV/VIDEO PRODUCTION

Panasonic 1080p HD models reproduce colors across the entire HDTV-standard range, so colors from HD sources are faithful and natural-looking. Supporting 10-bit input signals, the HD-SDI terminal board achieves precise color reproduction and rich gradation.



### MONITORING

Our 103-inch model is perfect for control rooms where crystal-clear display of detailed information is essential. Thanks to deep blacks and true-to-life colors, the image quality of our 1080p HD plasmas is superior to that of projection displays. They can also be installed in places where bulky conventional direct-viewing displays can not.



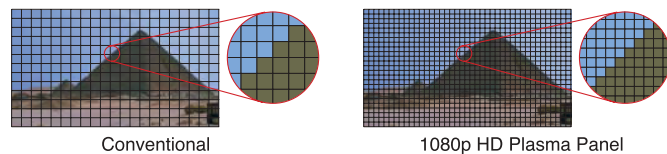
### DIGITAL SIGNAGE

With an industry-leading 4,096 gradation steps, Panasonic 1080p HD plasma models realistically convey the texture and surface quality of objects. With the 103-inch model in portrait orientation, images of people can be shown in actual life-size to draw attention.



### 1080p HD Plasma Panel — Twice as Much Image Information

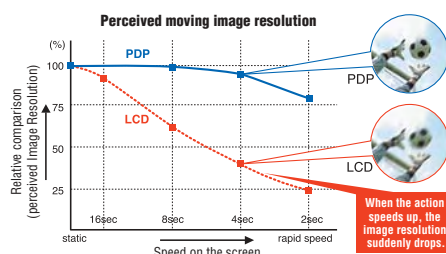
Our 1080p HD plasma models feature about 2 million pixels (1920 horizontal x 1080 vertical) — about twice as many as our conventional HD models. Images are uniformly clear, sharp and super-detailed across the entire screen surface.



Conventional 1080p HD Plasma Panel

### Superior Moving Image Resolution

Plasma display panels use a self-illuminating system to boost resolution in images with fast motion. Panasonic brings out all the beauty inherent in 1080p HD, reproducing crisp, sharp images that move smoothly.



### 4,096 Equivalent Steps of Gradation

Thanks to Panasonic's advanced maximum 16-bit digital image processing, our plasma models reproduce crisp, clear motion picture images with the equivalent of 4,096 gradation steps. This industry-leading gradation level enhances image depth, and conveys fine detail.

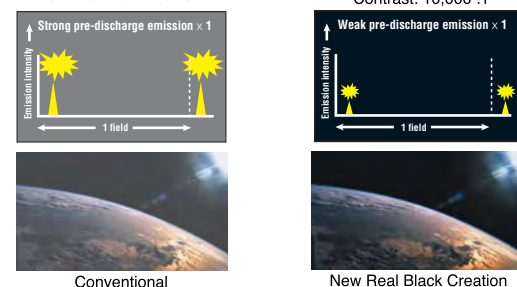


Conveys fine detail.

### Deep, Crisp Blacks with 10000:1\* Contrast

Panasonic's original New Real Black Creation technology helps achieve high contrast of 10,000:1\* in dark image areas to reproduce exceptionally deep, rich blacks.

\*1 - 5,000:1 for 103-inch model.

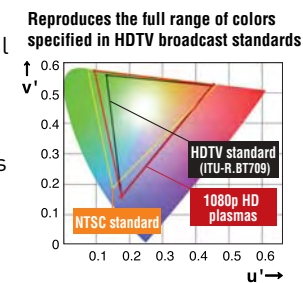


Conventional

New Real Black Creation

### Reproducing the Entire HDTV Color Range

HD sources are based on the HDTV standard rather than the conventional NTSC standard. In our new 1080p HD models, the panel phosphor characteristics closely match the HDTV-standard color gamut. This lets our plasmas reproduce the entire color range specified in the HDTV standard (ITU-R. BT709), so images are faithful to the original HD source.



### Digital Color Reality for Accurate Color Reproduction

In Super Cinema mode, Digital Color Reality boosts precision in the digital control of color and brightness 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 were difficult for previous systems to deliver.



Faithfully expresses subtle color differences in bright and shaded areas.

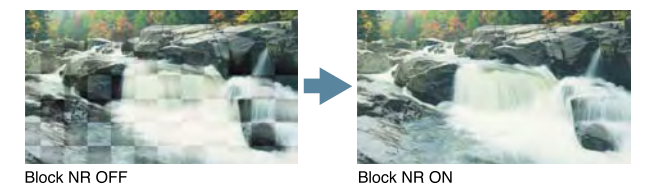
Expresses the natural warmth of sunlight, and conveys subtle color differences in bright and shaded areas.

### 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.

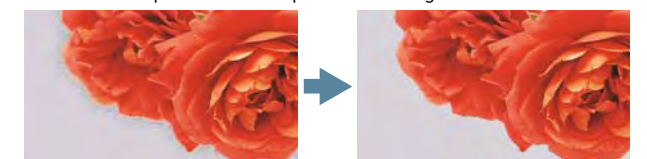


Block NR OFF

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



# Industry-Leading HD Plasma Displays — Advanced Technologies Deliver Superb Picture Quality



**TH-50PH10UKA**  
50-inch (127 cm) diagonal  
High Definition Plasma Display



**TH-37PH10UK**  
37-inch (94 cm) diagonal  
High Definition Plasma Display



**TH-42PH10UKA**  
42-inch (106 cm) diagonal  
High Definition Plasma Display



**TH-58PH10UKA**  
58-inch (148 cm) diagonal  
High Definition Plasma Display

## Explore a Wider World of Video Applications

**WIRELESS PRESENTATION**

At business meetings, presentations and other situations calling for powerful visual impact, you can count on the 58-inch HD plasma display. An optional wireless presentation board makes it easy to get a presentation or meeting underway quickly, without the time and trouble of connecting a number of cables.



**PUBLIC INFORMATION**

Ideal as public information systems, Panasonic 50-inch HD plasmas offer an ultra-flexible installation: mount them vertically and add a touch panel for one-on-one interaction.



**DYNAMIC SIGNAGE**

The Panasonic 42-inch pro plasma model fits well in stores. It can display images from two video sources at the same time, making it ideal for information displays in stores, show windows and other uses.



**ENTERTAINMENT**

The Panasonic pro plasma model is perfect when space is at a premium. You can select the model with the most suitable screen size for a specific installation space. Thanks to its high motion-image resolution, the plasma panel is ideal for displaying motion images. Function slots let you customize the unit for specific applications.



### Advanced 16-bit Image Processing — Real Gamma Control

Panasonic plasma displays use maximum 16-bit processing, to process video signals all the way up to the gamma correction stage. Real Gamma Control reproduces the actual image that appears on the screen at 3,072\*<sup>1</sup> equivalent steps of gradation.



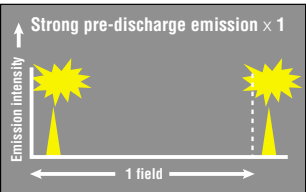

Bright image areas with insufficient gradation lack detail.

Clear, detailed rendering of both bright and dark areas.

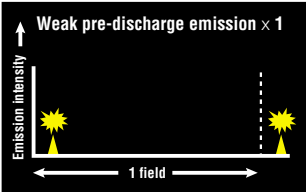
### Deep, Rich Blacks — New Real Black Creation

Panasonic's original New Real Black Creation technology helps achieve high contrast of 10,000:1 in dark image areas to reproduce exceptionally deep, rich blacks.


Contrast: 10,000 :1




Strong pre-discharge emission × 1



Weak pre-discharge emission × 1



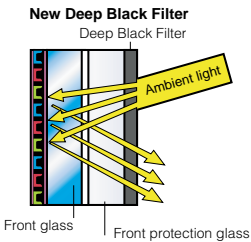
Conventional



New Real Black Creation


### Even Higher Bright-Area Contrast — New Deep Black Filter

The New Deep Black Filter suppresses light transmittance and slashes the amount of external light reflected. This technology helps improve the contrast when viewed in bright surroundings. Reflection is minimal, so images are clean and distraction-free.




### Sharp, Clear Images — Sub-Pixel Controller

The Sub-Pixel Controller eliminates jagged or blurred diagonal lines and produces smoother edges. This advanced system processes each color separately for crisper, more natural-looking images.



No correction

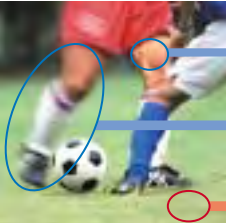


Correction

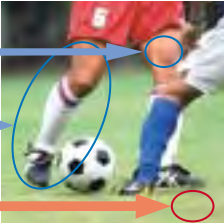
### Smooth, Clear Motion Images — Motion Pattern Noise Reduction

The Motion Pattern Noise Reduction circuit detects motion patterns that tend to generate noise, and makes adjustments to maximize image quality. It helps produce clean, sharp images with outstanding gradation, even in scenes with considerable motion. The result is a noticeable improvement in moving picture quality.

No correction



Correction



Part with slight motion

Part with large motion

Part with no motion

A Panasonic plasma finely divides each scene into numerous parts, then detects the motion in each part and applies noise reduction where required.



# Dynamic Images Draw Attention and Provide Strong Appeal to Viewers



## Life-Size Fashion Models — 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 of fashion show programming with richly shaded images.



## Information Displays Above Counters

The Multi Display function is ideal for putting areas like the space above airport counters to effective use. Sleek, flexibly configurable information display systems give travelers crisp, clear images with excellent contrast.

### 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.



### 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.

Note: In the PH series, this function is operable only when the Multi Display Setup is turned on. The PS series is not equipped with this function.

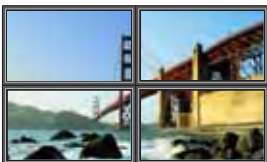
#### • Seam Hides Video Off Mode

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.

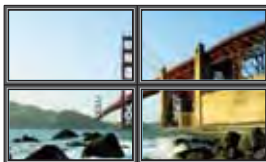


#### • Multi AI Control Function (PF series only)

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 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).

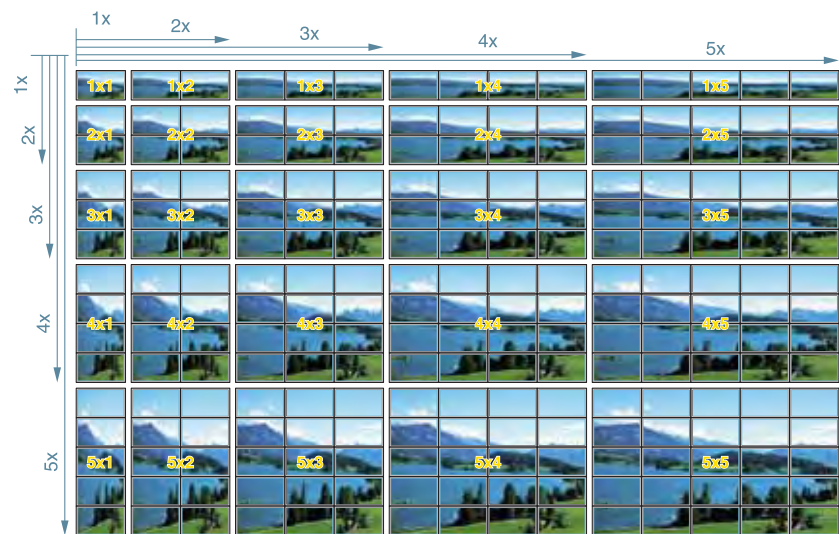
A new function lets you enlarge the image up to 5x vertically and horizontally independently, making it easy to set up a multi-screen system with up to five displays arranged either vertically or horizontally. For example, expand the image horizontally to 5x and leave it unchanged vertically, and you 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. PH series enlarges the image up to 4x vertically and horizontally.



### 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.



1x5 enlarged image



# Advanced Functions Help Create Effective Digital Signage



## Storefront Advertising with Effective Displays of Motion Images and Text Messages

Panasonic pro plasma models add impact to your message and draw substantial attention to your product, service, event or whatever you are marketing or communicating.



## Distribution and Display of Various Types of Information via Networks

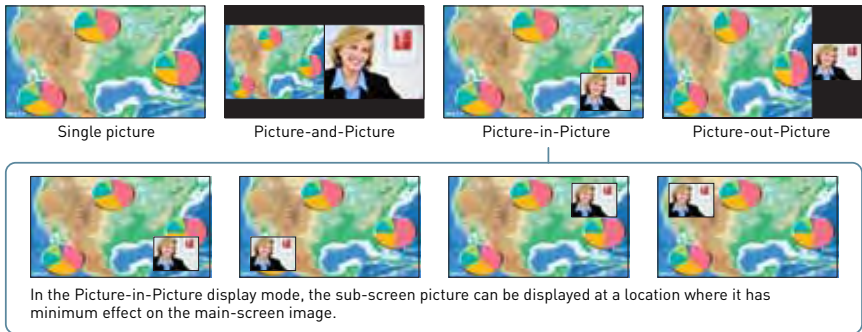
An optional plug-in PC board and CAT5e system with software applications let you schedule and deliver rich, multimedia content to your targeted audience at any time.

### Dual Picture Mode

You can simultaneously display images from any two different kinds of AV sources connected. Or, adding one of the optional terminal boards lets you display images from two of the same type of image source, such as two PCs or two DVD players. This function allows you to take full advantage of the plasma display's large screen. 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.

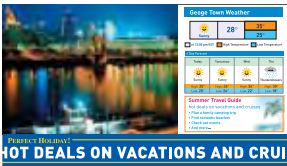
#### Dual Picture Mode

The display mode can be switched by pressing the Multi PIP button.

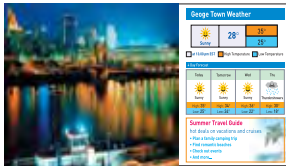


### • Advanced Dual Picture Mode — Useful in Digital Signage

Panasonic plasma displays feature the Advanced Dual Picture Mode in addition to the conventional Dual Picture Mode. This mode lets you overlay a video image onto a full-screen PC image. For example, you can superimpose text information from a PC over a video clip, giving you a more effective way to present information.



Motion images and text messages can be displayed in parallel to each other. Thanks to the running text message section at the bottom, the large screen can be used to provide large amounts of information at the same time.



Motion images and text messages are arranged next to each other. Thanks to the simple and neat layout, motion images accentuate the entire screen.



Motion images and text messages are combined. Since both the top and bottom content contains motion, they draw attention for more effective advertising.

### 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. **Note:** The TH-37PH10UK cannot be positioned vertically.



### Enhanced Screen Saver Functions

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

- White Bar Scroll: White bars move across the screen from left to right at regular intervals. Good for ordinary still-image displays.
- Screen Reversal: Displays images with the black and white reversed. Good for text displays.
- 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).



# 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.

Display window  
Market Share 2007  
2001 2007

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.

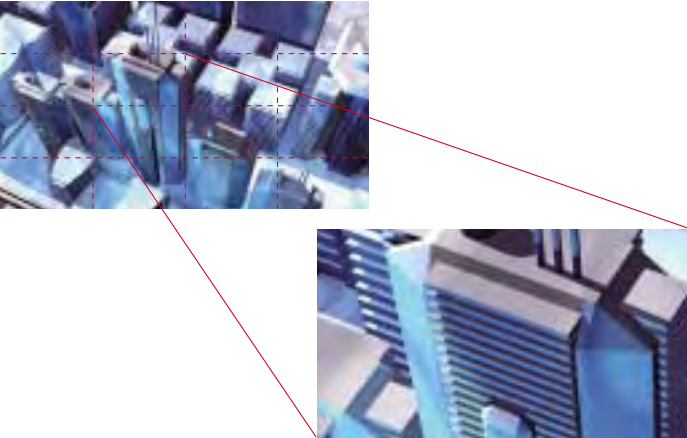
Display window  
Statue of Liberty

PC

### 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 (PF series only)

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 1080p 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.

### Adapts Easily to HD-SDI Systems

The HD-SDI terminal board supports max. 10-bit input signals, for greater color reproduction precision and richer gradation. With outstanding reproducibility across the entire HDTV-standard (ITU-R, BT709) color range, Panasonic 1080p HD panels deliver faithful, natural-looking colors from HD sources. And because they provide full-digital signal processing from input to display, these models are suitable for use as HD master monitors.

### Monitor Multiple Sources on a Single 103-inch Screen

Connect the 103-inch model to a multi-display processor by using the DVI-D Terminal Board, and the screen can be divided into sub-screens for monitoring multiple sources. This gives you an efficient way to view different images at once.



Conventional CRT monitors



103-inch plasma displays

### 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.

### 1:1 Pixel Mode (PF series only)

The 1:1 Pixel mode maps the 1920 x 1080 video content to 1080p 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.

**Note:** 1920 x 1080 PC signals are always displayed in 1:1 mode.

### 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 hand-written 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.)



Industry’s Best Expandability

Multi-Function Slots

In addition to the fixed input interface, the Panasonic plasma display has three\*1 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.

\*1: 37-inch model comes with two interchangeable slots and fixed terminals.



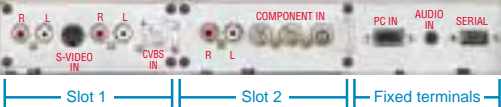
Standard-Equipped Terminals

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

TH-103PF10UK  
TH-65PF10UK  
TH-50PF10UK  
TH-58PH10UKA  
TH-50PH10UKA  
TH-42PH10UKA



TH-37PH10UK



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



Specifications	TY-FB10HMD	TY-FB8HM
Interface	HDMI Type-A x 2	HDMI Type-A
Compatible video format	525/60p, 625/50p, 750/60p, 750/50p, 1125/60i, 1125/50i, VGA60, 1125/60p (PF series only), 1125/50p (PF series only), 1125/24p (PF series only)	525/60p, 625/50p, 750/60p, 750/50p, 1125/60i, 1125/50i, VGA60
Compatible audio format	Linear PCM (Sampling frequency: 48/44.1/32 kHz)	
Applicable displays	PF and PH series	PF and PH series

\* High-Definition Multimedia Interface and HDMI are trademarks of HDMI Licensing, LLC.

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

HD-SDI Terminal Board with Audio TY-FB10HD

HD-SDI Terminal Board TY-FB9HD

SDI Terminal Board TY-FB7SD



- 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, 23.98psF		525/59.94i, 625/50i
Applicable displays	PF series		PF and PH series

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 connectability 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-FB9FDD (for PF series)

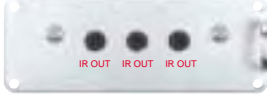
TY-42TM6D (for PH series)



- 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



- Lets you display images from two or more PCs.
- \* Does not support the DPMS function.

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

TY-FB10WPU



- 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.



Wireless Card (A protective cover is included for wireless card use.)

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 Pntium are either trademarks of registered trademarks of Intel Corporation in the United States and/or other countries.  
Note: This board cannot be used in Central and South America.

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.)

**4-Window Multi Style**  
The display screen is divided into four windows, and images from up to four PCs can be simultaneously displayed.

**4-Window Index Style**  
Images from up to four PCs are shown in thumbnail form at the bottom of the display. The operator can use the remote control to enlarge any of the images.

**16-Window Index Style**  
Images from up to 16 PCs are shown in thumbnail form on the display. The operator can use the remote control to enlarge any of the images.

- **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.

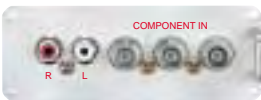
BNC Dual Video Terminal Board  
(mounts in slot 1 or 2)

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

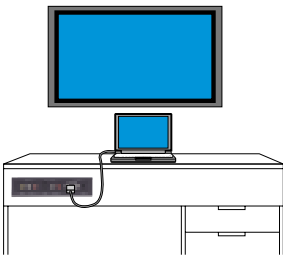


Optional AV Terminal Box

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.



Front Panel





Peripherals

Twisted-Pair-Cable Transmission System Products

Twisted-Pair-Cable Receiver Board  
KE0101CR-BW (Mounts in any slot\*)



- \*Should be mounted in slot 1 to send the display control signal. Display control signal transmission is one-way.
- Makes it possible, using a single CAT5e cable, to simultaneously send video signal (RGB, component, or composite), audio signal and the display control signal.
  - \* To send a composite video signal, the Composite Video Terminal Board (TY-FB9BD, 42TM6Y, 42TM6B or 42TM6V) must be mounted in the slot of the Plasma.
  - This reduces both costs and setup time compared with a conventional BNC cable connection.
  - XGA signals (1024 x 768 pixels) can be sent up to 500 ft.

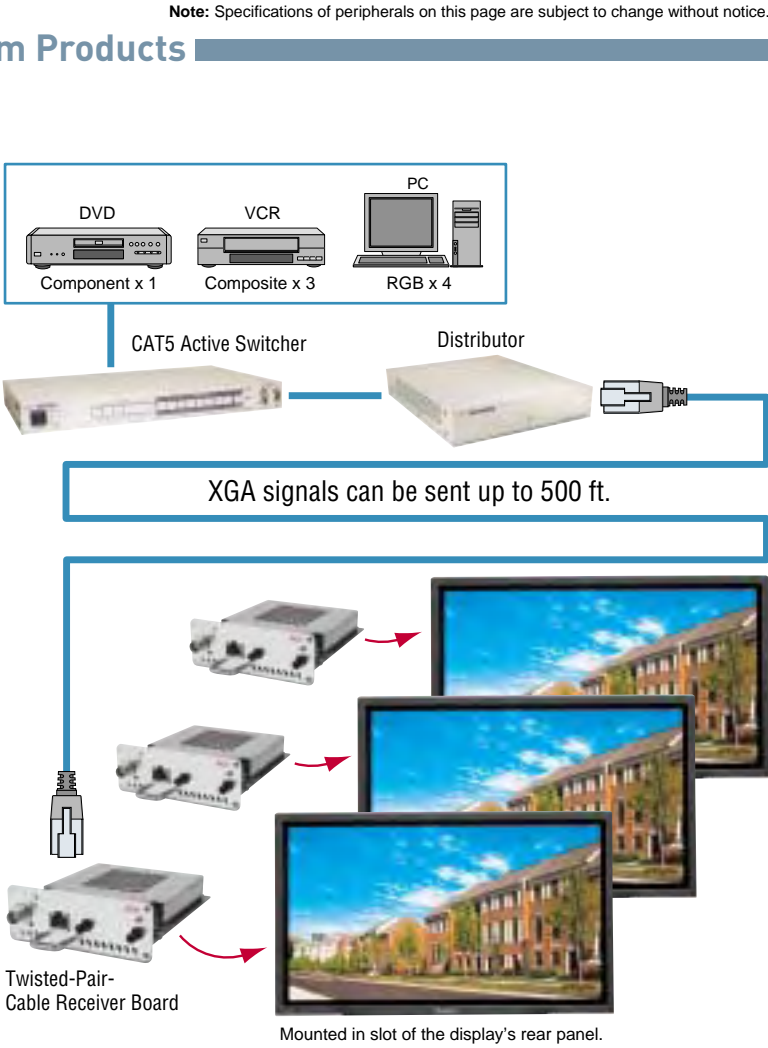
For the latest information on the Twisted-Pair-Cable Receiver Board, please visit the following website:  
<http://www.kowa.co.jp/i-master/cat5-eng>

Specifications (KE0101CR-BW)	
Applicable displays	Panasonic Plasma Displays
Input channel	1 input system for extension
Output channel	1 system (internal connector) for RGB or 1 system (extrenal connector) for Video, 1 system for sound and 1 system for RS232C
Extension cable	CAT5/CAT5e/CAT6
Video output signal	Analog RGB: 0.7Vp-p (75 ohms); HD, VD: TTL Component: Y: 1.0Vp-p (75 ohms) sync signal included P <sub>s</sub> , P <sub>c</sub> : ± 0.35Vp-p (75 ohms) Video: 1.0Vp-p (75 ohms)
Power supply	Supplied from the plasma display
Power consumption	Approx. 6 W

Twisted-Pair-Cable Transmitter/Active Switcher  
KE811CTW



- Makes it possible to simultaneously transmit video, audio and control signals over a single CAT5e cable to external equipment.
- Allows plasma display control (Power On/Off, Video Switching, Mute, Volume Up/Down, etc.) via RS-232C.
- Enables combined use with the KE0108CH-DW Distributor.



**Twisted-Pair-Cable Transmitter  
KE0202CT2W**

Sends video, audio and control signals over a CAT5e cable.

**Twisted-Pair-Cable Distributor  
KE0108CH-DW**

Distributes one input to eight output channels.

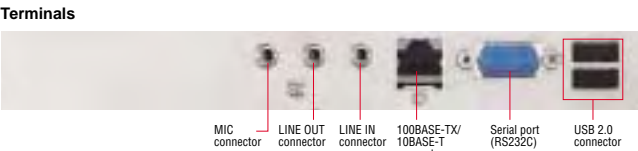
Specifications (KE0202CT2W)	
Input channel	1 each for video (RGB and video) 1 each for audio and 1 for RS-232C
Output channel	1 each for monitor output (RGB, video, and audio) 1 for extension output (2 division) 1 for extension output (2 division)
Extension cable	CAT5/CAT5e/CAT6
Video output signal	Analog RGB: 0.7Vp-p (75 ohms); HD, VD: TTL Component: Y: 1.0Vp-p (75 ohms) sync signal included P <sub>s</sub> , P <sub>c</sub> : ± 0.35Vp-p (75 ohms) Video: 1.0Vp-p (75 ohms)
Power supply	AC 100 — 240 V, 50/60 hz
Power consumption	Approx. 10 W
Specifications (KE0108CH-DW)	
Input channel	1 input for CAT5e
Output channel	8 outputs for CAT5e
Input connector	RJ-45 connector
Output connector	RJ-45 connector
Extension cable	CAT5e

PDP Controller

PLUG-VC251 (Mounts in slots 1, 2 & 3)



- 3-slot width plug-in PC to facilitate turnkey solutions.
- Customized to maximize the performance of Panasonic plasma displays.
- Realistic display images achieved by a 1:1 pixel correspondence with Panasonic plasma displays.
- Models with a pre-installed, digital signage system are also available.

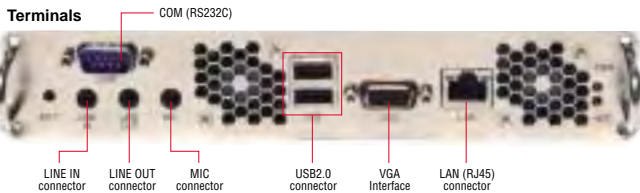


Specifications		PLUG-VC251	PLUG-EC1000	PLUG-EC600	PLUG-EC1000XPE	PLUG-EC600XPE
Model number		PLUG-VC251	PLUG-EC1000	PLUG-EC600	PLUG-EC1000XPE	PLUG-EC600XPE
Slot compatibility		requires slots 1 to 3		requires slots 1 to 2		
Processor		ULV Pentium Celeron 1 GHz	ULV Pentium Celeron 1 GHz	ULV Pentium Celeron 600 MHz	ULV Pentium Celeron 1 GHz	ULV Pentium Celeron 600 MHz
Memory		256 MB RAM (DDR SO-DIMM)	512 MB RAM (DDR SO-DIMM)			
Internal HDD		40 GB HDD (2.5" HD)	40 GB HDD (2.5" HD)			
Interfaces		1 x LAN, 2 x USB 2.0/1.1, 1 x Serial, 1 x Line In/Out, 1 x Mic In	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		Optional	—			
Dimensions (W x H x D)		12.4" x 1.6" x 8.3" (315 x 40 x 211 mm) (including cooling fan)	8.0" x 1.3" x 4.9" (203 x 32 x 125 mm)			
Power supply		Supplied from the plasma display	Supplied from the plasma display			
Standards		FCC Class A	FCC Class A			

PLUG-EC series (Mounts in slots 1&2)



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



Touch Panel



Touch Panel (CMOS Camera Detection System)  
TY-TP65P10S (for TH-65PF10UK)  
TY-TP58P10S (for TH-58PH10UKA)  
TY-TP50P10S (for TH-50PF10UK/50PH10UKA)  
TY-TP42P10S (for TH-42PH10UKA)

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

Note: You cannot use the TY-ST08-K pedestal for these touch panels.



TY-TPEN6 Touch Pen also available.

Touch Panel (Optical Disturbance Detection System)  
TY-TP50P8-S (for TH-50PF10UK/50PH10UKA)  
TY-TP42P8-S (for TH-42PH10UKA)

- Use of highly reliable optical sensors
- Thin profile for a perfect screen fit
- Attractive design for portrait positioning

Note: The touch panel does not include a drawing application. You cannot mount both a TY-TP65P10S, TP58P10S, TP50P8-S, or TP42P8-S Touch Panel and an Anti-Glare Filter at the same time.

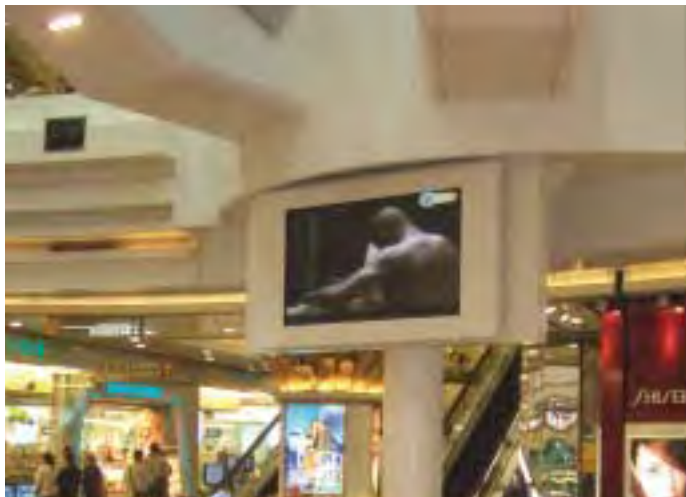


# Endless Array of Applications

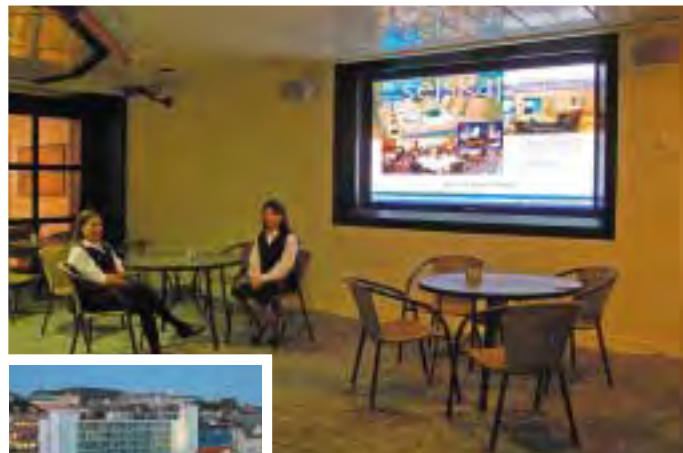
## DIGITAL SIGNAGE



Shopping Mall, Budapest, Hungary



Grand Century, Hong Kong, China



Rica Maritim Hotel, Norway  
[www.rica.no](http://www.rica.no)  
[www.visithaugalandet.no](http://www.visithaugalandet.no)



Golden Harvest Hollywood, Hong Kong, China

## TV PRODUCTION



103 plasma in CBS's "Early Show" studio, New York, USA



ČESKÁ TELEVIZE's studio, Czech

## AMUSEMENT



Dolphin Stadium, Miami, USA



Planet Hollywood Resort, Las Vegas, USA

## PASSENGER INFORMATION



Kansai International Airport, Osaka, Japan



Minatomirai Station, Yokohama, Japan

## CONTROL ROOM



Vatican Museum

## TRADE SHOW



Volvo booth at Automobile exhibition, Sweden



1080p HD Models



TH-103PF10UK  
103-inch (260 cm) diagonal  
1080p High Definition Plasma Display



TH-65PF10UK  
65-inch (165 cm) diagonal  
1080p High Definition Plasma Display



TH-50PF10UK  
50-inch (127 cm) diagonal  
1080p High Definition Plasma Display



HD Models



TH-58PH10UKA  
58-inch (148 cm) diagonal  
High Definition Plasma Display



TH-50PH10UKA  
50-inch (127 cm) diagonal  
High Definition Plasma Display



TH-42PH10UKA  
42-inch (106 cm) diagonal  
High Definition Plasma Display



TH-37PH10UK  
37-inch (94 cm) diagonal  
High Definition Plasma Display

Specifications

	TH-103PF10UK	TH-65PF10UK	TH-50PF10UK
DISPLAY			
Screen Size (Diagonal)	102.5-inch	64.8-inch	49.9-inch
Aspect Ratio	16:9	16:9	16:9
Effective Display Area (W x H)	89.3" x 50.3" (2,269 x 1,277 mm)	56.5" x 31.8" (1,434 x 807 mm)	43.5" x 24.5" (1,106 x 622 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)	1.182 x 1.182 mm	0.747 x 0.747 mm	0.576 x 0.576 mm
Contrast Ratio	5,000:1	10,000:1	
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, WXGA+, SXGA, SXGA+, WSXGA+, UXGA, WUXGA (UXGA and over resolution: compressed)		
Supported Video Standards	NTSC, PAL, PAL 60, SECAM, Modified NTSC		
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			
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	120 V AC, 50 Hz/60 Hz	120 V AC, 50 Hz/60 Hz
Power Consumption	1,550 W	790 W	650 W
Power off condition	0.5 W	0.1 W	0.1 W
Stand-by condition	Save Off: 1.0 W, Save On: 0.9 W	Save Off: 0.6 W, Save On: 0.4 W	Save Off: 0.6 W, Save On: 0.4 W
SOUND			
Audio Output	Line Out (L/R)	20 W [10 W + 10 W] (10 % THD)	16 W [8 W + 8 W] (10 % THD)
MECHANICAL			
Dimensions (W x H x D <sup>1)</sup> )	95.0" x 55.9" x 5.1" (2,414 x 1,421 x 129 mm)	61.2" x 36.4" x 3.9" (1,554 x 925 x 99 mm)	47.6" x 28.5" x 3.7" (1,210 x 724 x 95 mm)
Weight (approx.)	485.0 lbs. (220.0 kg)	158.7 lbs. (72.0 kg)	90.4 lbs. (41.0 kg)
OPERATING ENVIRONMENT			
Temperature	32°F — 104°F (0°C — 40°C)		
Humidity	20% — 80% (Non condensation)		
Altitude	0 — 7,800 feet (0 — 2,400 m)	0 — 9,100 feet (0 — 2,800 m)	0 — 9,100 feet (0 — 2,800 m)
EMI REGULATIONS			
FCC Part 15 Class-B, ICES-003			
SAFETY STANDARDS			
UL6500 Ver. 2			

\*1: Exclusive of protruding portion

	TH-58PH10UKA	TH-50PH10UKA	TH-42PH10UKA	TH-37PH10UK
DISPLAY				
Screen Size (Diagonal)	58.1-inch	49.9-inch	41.6-inch	36.9-inch
Aspect Ratio	16:9	16:9	16:9	16:9
Effective Display Area (W x H)	50.7" x 28.5" (1,287 x 723 mm)	43.5" x 24.5" (1,106 x 622 mm)	36.3" x 20.4" (922 x 518 mm)	32.2" x 18.0" (819 x 457 mm)
Resolution (H x V)	1,366 x 768 pixels	1,366 x 768 pixels	1,024 x 768 pixels	1,024 x 720 pixels
Pixel Pitch (H x V)	0.942 x 0.942 mm	0.810 x 0.810 mm	0.900 x 0.675 mm	0.800 x 0.635 mm
Contrast Ratio	10,000:1			
Gradation	3,072 steps (equivalent)			
SIGNAL COMPATIBILITY				
Scan Rate	Horizontal frequency: 15 — 110 kHz; Vertical frequency: 48 —120 Hz			
PC Signal Compatibility	VGA, WVGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, WSXGA+, UXGA, WUXGA			
	(WXGA+ and over resolution: compressed) (WXGA and over resolution: compressed) (XGA and over resolution: compressed)			
Supported Video Standards	NTSC, PAL, PAL 60, SECAM, Modified NTSC			
Video Signal Compatibility	525 (480)/60i, 60p; 625 (575)/50i, 50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50i, 24p, 24sF, 25p, 30p... 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	CVBS In (BNC x 1, Composite), Audio In (L/R) (RCA pin jack x 2); S-Video In (S-Video x 1), Audio In (L/R) (RCA pic jack x 2)
Slot2	HDMI In x 2			Component In (BNC x 3, Analog RGB/Component), Audio In (L/R) (RCA pin jack x 2)
Slot3	Component In (BNC x 3, Analog RGB/Component), Audio In (L/R) (RCA pin jack x 2)			—
ELECTRICAL				
Power Requirements	120 V AC, 50 Hz/60 Hz	120 V AC, 50 Hz/60 Hz	120 V AC, 50 Hz/60 Hz	120 V AC, 50 Hz/60 Hz
Power Consumption	660 W	505 W	380 W	340 W
Power off condition	0.1 W	0.1 W	0.2 W	0.2 W
Stand-by condition	Save Off: 0.6 W, Save On: 0.4 W	Save Off: 0.6 W, Save On: 0.4 W	Save Off: 0.7 W, Save On: 0.5 W	Save Off: 0.7 W, Save On: 0.5 W
SOUND				
Audio Output	16 W [8 W + 8 W] (10 % THD)			
MECHANICAL				
Dimensions (W x H x D*)	55.1" x 33.2" x 3.9" (1,399 x 843 x 99 mm)	47.6" x 28.5" x 3.7" (1,210 x 724 x 95 mm)	40.2" x 24.0" x 3.5" (1,020 x 610 x 89 mm)	36.2" x 21.7" x 3.5" (920 x 550 x 89 mm)
Weight (approx.)	119.0 lbs. (54.0 kg)	79.4 lbs. (36.0 kg)	57.3 lbs. (26.0 kg)	48.5 lbs. (22.0 kg)
OPERATING ENVIRONMENT				
Temperature	32°F — 104°F (0°C — 40°C)			
Humidity	20% — 80% (Non condensation)			
Altitude	0 — 9,100 feet (0 — 2,800 m)			
EMI REGULATIONS				
FCC Part 15 Class-B, ICES-003				
SAFETY STANDARDS				
UL6500 Ver. 2				

\*1: Exclusive of protruding portion

Hospitality  
Plasma Models  
Also Available



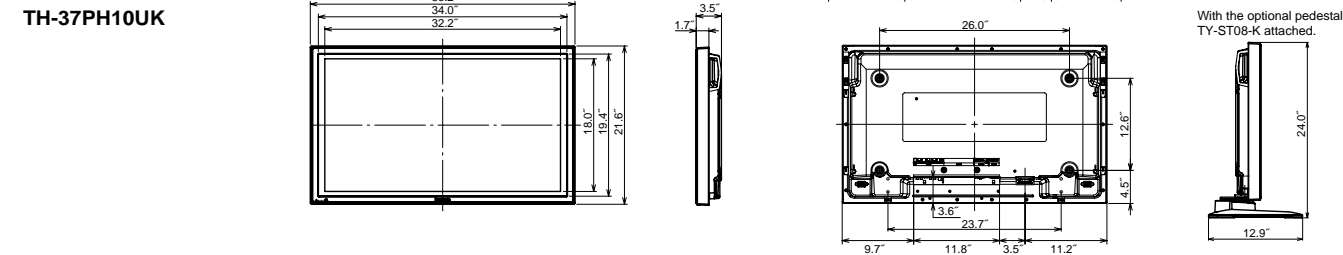
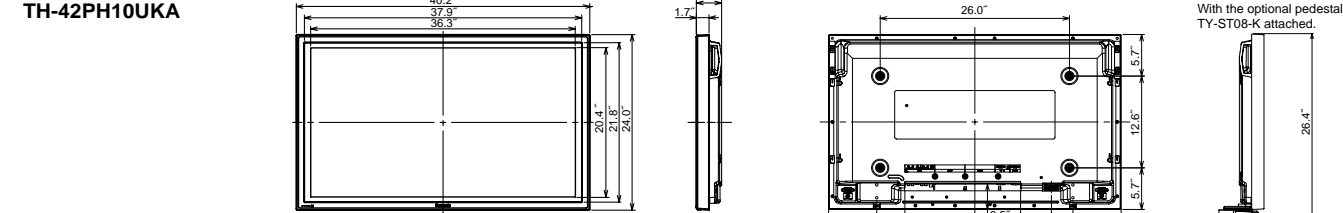
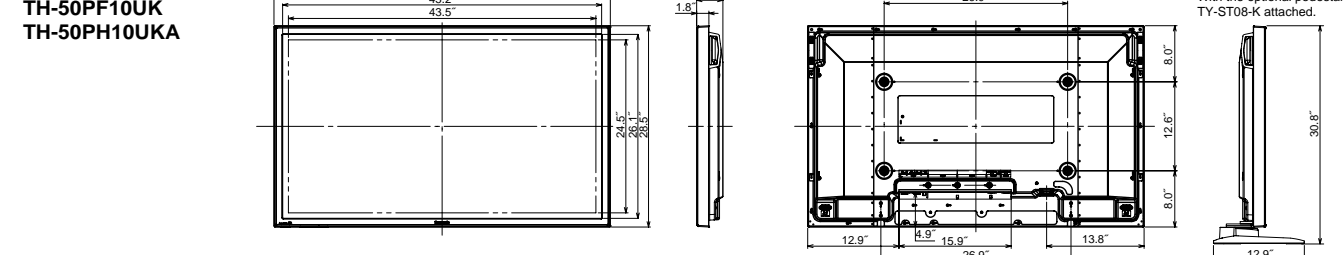
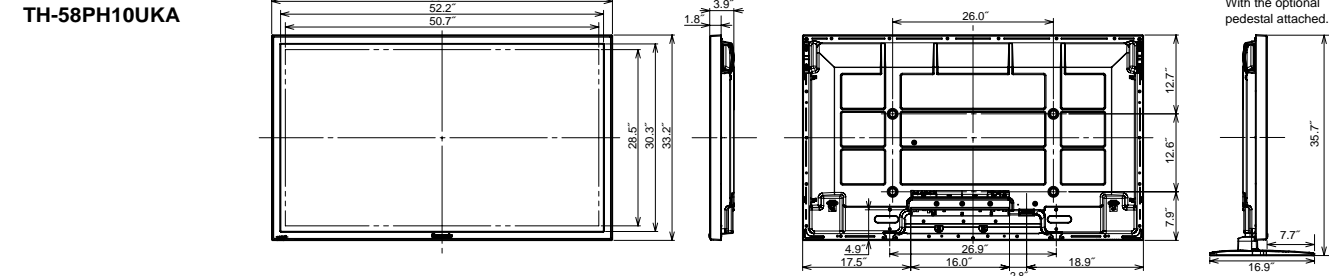
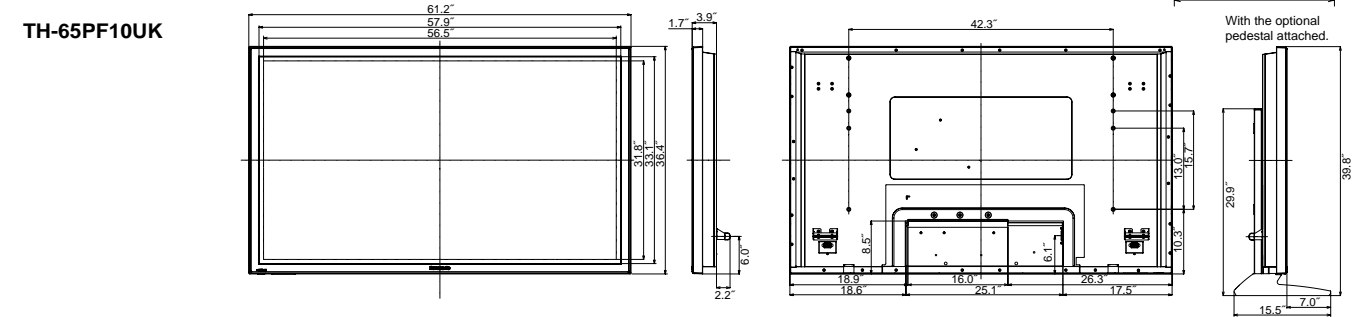
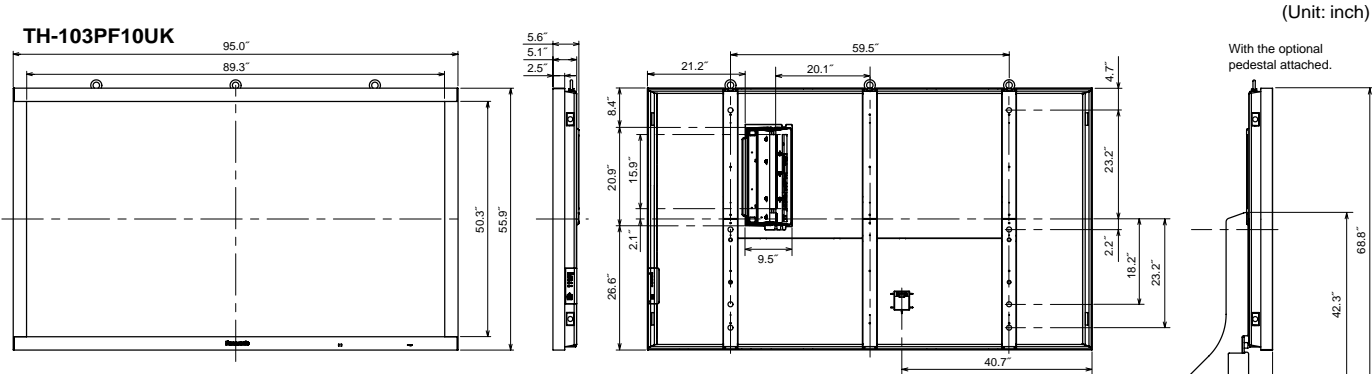
TH-42PR10U  
42-inch HD model



TH-37PR10U  
37-inch HD model



Dimensions



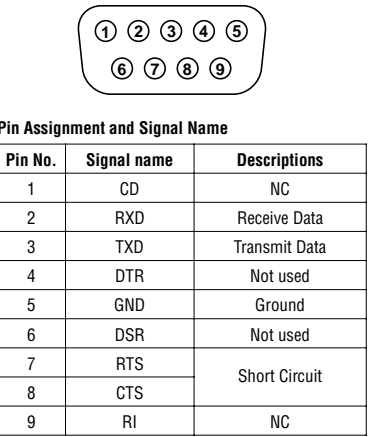
Preset Input Signals

Preset Input Signals

Signal name	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Optional Terminal Board																Dot Clock (MHz)	
			Composite Component Video TY-42TM6Y	Component Video TY-42TM6A/Z	PC Input TY-42TM6P	RGB Active Through TY-42TM6G	Composite Video TY-42TM6B/V	BNC Dual Video TY-FB9BD	DVI-D TY-FB9FDD	DVI-D TY-42TM6D	SDI TY-FB7SD	HD-SDI TY-FB9HD	HD-SDI with Audio TY-FB10HD	HDMI TY-FB8HM	Dual HDMI TY-FB10HMD	PC IN (D-Sub 15-pin) Fixed Terminal	Component RGB In/PC In	DVI-D In		
Composite	NTSC	15.73	59.94	Y				Y	Y											
	PAL	15.63	50.00	Y				Y	Y											
	PAL60	15.73	59.94	Y				Y	Y											
	SECAM	15.63	50.00	Y				Y	Y											
	Modified NTSC	15.73	59.94	Y				Y	Y											
	525 (480)/60i	15.73	59.94	Y	Y	Y	Y				Y	Y	Y			Y	13.5			
	525 (480)/60p	31.47	59.94	Y	Y	Y	Y		Y	Y				Y	Y	Y	27.0 (*2)	27.0		
Component/RGB	625 (575)/50i	15.63	50.00	Y	Y	Y	Y				Y	Y	Y			Y	13.5			
	625 (575)/50p	31.25	50.00	Y	Y	Y	Y			Y						Y	27.0			
	625 (576)/50p	31.25	50.00						Y					Y	Y			27.0		
	750 (720)/60p	45.00	60.00	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	74.25	74.25		
	750 (720)/50p	37.50	50.00	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	74.25	74.25		
	1125 (1080)/60i	33.75	60.00	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	74.25	74.25		
	1125 (1080)/60p	67.50	60.00	Y (*1)	Y (*1)	Y (*1)	Y (*1)		Y					Y (*1)	Y (*1)	Y	148.5	148.5		
	1125 (1080)/50i	28.13	50.00	Y	Y	Y	Y			Y		Y	Y	Y	Y	Y	74.25	74.25		
	1125 (1080)/50p	56.25	50.00	Y (*1)	Y (*1)	Y (*1)	Y (*1)		Y					Y (*1)	Y (*1)	Y	148.5	148.5		
	1125 (1080)/30p	33.75	30.00	Y	Y	Y	Y		Y			Y	Y			Y	74.25			
	1125 (1080)/25p	28.13	25.00	Y	Y	Y	Y					Y	Y			Y	74.25			
	1125 (1080)/24p	27.00	24.00	Y	Y	Y	Y		Y			Y	Y			Y (*1)	74.25			
	1125 (1080)/24sF	27.00	48.00	Y	Y	Y	Y					Y	Y			Y	74.25			
	1250 (1080)/50i	31.25	50.00	Y	Y	Y	Y									Y	74.25			
RGB	640 x 400 @70Hz	31.46	70.07	Y	Y	Y	Y									Y	25.17			
	640 x 480 @60Hz	31.47	59.94	Y	Y	Y	Y		Y	Y				Y		Y	25.18 (*3)	25.18		
	640 x 480 @72Hz	37.86	72.81	Y	Y	Y	Y									Y	31.5			
	640 x 480 @75Hz	37.50	75.00	Y	Y	Y	Y									Y	31.5			
	640 x 480 @85Hz	43.27	85.01	Y	Y	Y	Y									Y	36.0			
	800 x 600 @56Hz	35.16	56.25	Y	Y	Y	Y									Y	36.0			
	800 x 600 @60Hz	37.88	60.32	Y	Y	Y	Y		Y	Y						Y	40.0	40.0		
	800 x 600 @72Hz	48.08	72.19	Y	Y	Y	Y									Y	50.0			
	800 x 600 @75Hz	46.88	75.00	Y	Y	Y	Y									Y	49.5			
	800 x 600 @85Hz	53.67	85.06	Y	Y	Y	Y									Y	56.25			
	852 x 480 @60Hz	31.47	59.94	Y	Y	Y	Y		Y	Y						Y	33.54 (*3)	34.24		
	1024 x 768 @50Hz	39.55	50.00						Y									51.89		
	1024 x 768 @60Hz	48.36	60.00	Y	Y	Y	Y		Y	Y						Y	65.0	65.0		
	1024 x 768 @70Hz	56.48	70.07	Y	Y	Y	Y									Y	75.0			
	1024 x 768 @75Hz	60.02	75.03	Y	Y	Y	Y									Y	78.75			
	1024 x 768 @85Hz	68.68	85.00	Y	Y	Y	Y									Y	94.5			
	1066 x 600 @60Hz	37.64	59.94	Y	Y	Y	Y		Y	Y						Y	53.0	53.0		
	1152 x 864 @60Hz	53.70	60.00						Y									81.62		
	1152 x 864 @75Hz	67.50	75.00	Y	Y	Y	Y									Y	108.0			
	1280 x 960 @60Hz	60.00	60.00	Y	Y	Y	Y									Y	108.0			
	1280 x 960 @85Hz	85.94	85.00	Y	Y	Y	Y									Y	148.5			
	1280 x 1024 @60Hz	63.98	60.02	Y	Y	Y	Y		Y							Y	108.0	108.0		
	1280 x 1024 @75Hz	79.98	75.03	Y	Y	Y	Y									Y	135.0			
	1280 x 1024 @85Hz	91.15	85.02	Y	Y	Y	Y									Y	157.5			
	1366 x 768 @50Hz	39.55	50.00						Y									69.92		
	1366 x 768 @60Hz	48.36	60.00	Y	Y	Y	Y		Y	Y						Y	86.71	87.44		
	1400 x 1050 @60Hz	65.22	60.00						Y									122.61		
	1600 x 1200 @60Hz	75.00	60.00	Y	Y	Y	Y		Y							Y	162.0	162.0		
	1600 x 1200 @65Hz	81.25	65.00	Y	Y	Y	Y									Y	175.5			
	1920 x 1080 @60Hz	67.50	60.00	Y (*1)	Y (*1)	Y (*1)	Y (*1)		Y							Y (*1)	148.5	148.5		
	1920 x 1200 @60Hz	74.04	59.95						Y									154.0		
	Mac 13 (640 x 480)	35.00	66.67	Y	Y	Y	Y									Y	30.24			
	Mac 16 (832 x 624)	49.72	74.54	Y	Y	Y	Y									Y	57.28			
	Mac 21 (1152 x 870)	68.68	75.06	Y	Y	Y	Y									Y	100.0			

\*1: The PH series does not accept these signals.  
\*2: When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60 Hz signal.  
\*3: When inputted VGA 60 Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal.  
**Note:** When a signal having a resolution that exceeds the panel resolution is input, a simplified display will be produced.

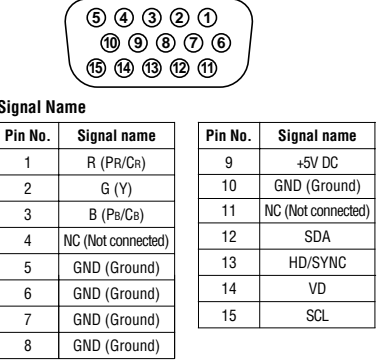
Serial RS232C: D-Sub 9-Pin (Male)



Communication Parameters

Signal Level	Complied with RS232C
Synchronization Method	Asynchronous
Baud Rate	9600 bps
Parity	None
Character Length	8 bits
Stop Bit	1 bit
Flow Control	—

PC Input: D-Sub 15-Pin (Female)



Supplied Remote Control

(Comes with every Panasonic Plasma Display model.)



Remote Control Functions

- Power On
- Power Off
- Direct Input Selection (1/2/3/PC)
- Input Selection
- Status
- Surround On/Off
- Sound Mute On/Off
- Volume Up/Down
- Normalization (N)
- Exit (R)
- Position/Action
- Digital Zoom
- Dual Picture (MULTI PIP/SWAP/SELECT/MOVE)
- Picture
- Sound
- Set Up
- Picture Position/Size
- Aspect
- PC Mode Selection
- Off Timer
- Normal/ID Remote Selection
- ID Number Set
- ID All



