

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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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 industryleading 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 graduation 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

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.

1080a





58 TH-58PH10UKA

50

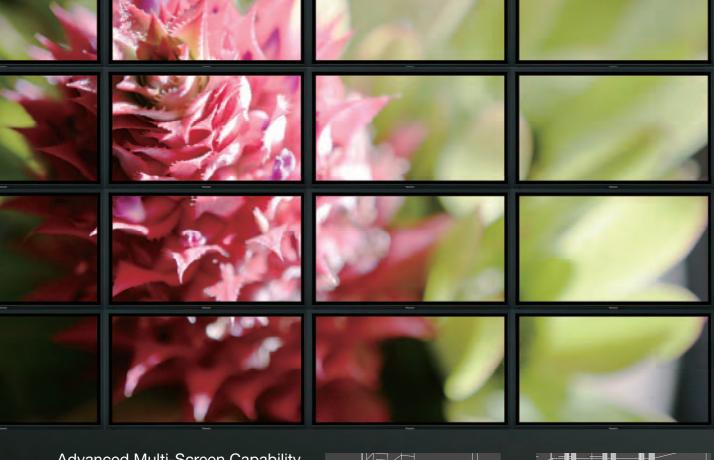
Panasonic's wide-ranging lineup: From a 103-inch 1080p HD model to a 37-inch HD model

HD

37

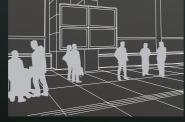
TH-50PH10UKA

TH-42PH10UKA TH-37PH10UK



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.





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









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

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.



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



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





TH-65PF10UK 65-inch (165 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 cold accuracy. Able to display highly detailed documents and images with exceptional sharpness. Panasonic plasmas are suitable for use in conferences and presentations with large



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

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.



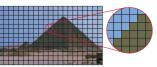


DIGITAL SIGNAGE

With an industry-leading 4,096 gradation steps, Panasonic 1080p HD plasma models realistically convey the texture and surface quality of objects. With the 103inch 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.







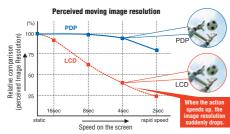


1080p HD Plasma Panel

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.

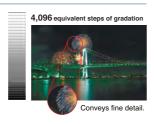


4,096 Equivalent Steps of Gradation

50-inch (127 cm) diagonal

1080p High Definition Plasma Display

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 industryleading gradation level enhances image depth, and conveys fine detail.



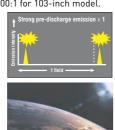
103-inch (260 cm) diagonal

1080p High Definition Plasma Display

Deep. Crisp Blacks with 10000:1*1 Contrast

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

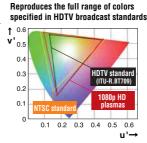
*1 - 5,000:1 for 103-inch model.





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.



olor differences



atural warmth of sunlight, and onveys subtle color difference: bright and

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



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 ON

Mosquito NR OFF

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



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 mak it easy to get a presentation or meeting underway quickly, without the time and trouble of connecting a number of cables.



Ideal as public information systems, Panasonic 50-inch HD olasmas offer an ultra-flexible installation: mount them vertically

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 s 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

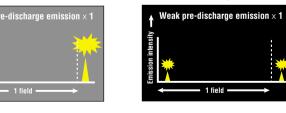
Panasonic plasma displays use maximum 16-bit processing, to process video signals all the way up to the gamma correction stage. Real Gamma Control reproduces the actual image that appears on the screen at 3.072*1 equivalent steps of gradation. *1 - For PH series. 4,096 equivalent steps for PF series.



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





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

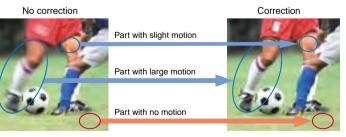
The Sub-Pixel Controller eliminates jagged or blurred diagonal lines and produces smoother edges. This advanced system processes each color separately for crisper, more natural-





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.



A Panasonic plasma finely divides each scene into numerous parts, then detects the

Dynamic Images Draw Attention and Provide Strong Appeal to Viewers

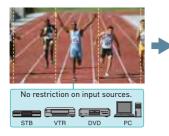


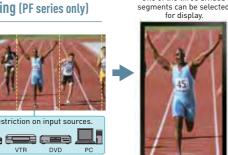
Life-Size Fashion Models — Digital Signage Displays

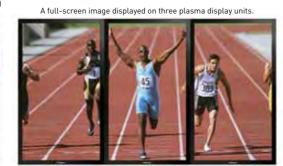
The 103-inch plasma display is large enough to display people in life-size scale. The Portrait Zoom function can be used to create extremely eye-catching window displays of fashion show programming with richly shaded images.

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)

One of the three divided

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.







Since video information is processed for the entire input signal, there is no brightness

• 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.



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.

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).

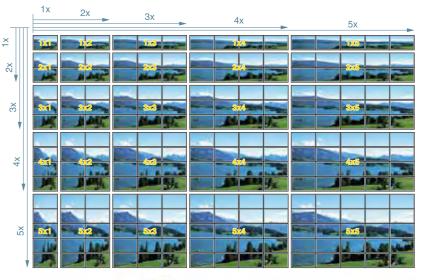
A new function lets you enlarge the image up to 5xvertically and horizontally independently, making it easy to set up a multi-screen system with up to five displays arranged either vertically or horizontally. For example, expand the image horizontally to 5x and leave it unchanged vertically, and you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





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.

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.

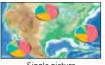
When displaying two separate images, you can select the audio output from either source. Playing back the audio from the sub-source can be useful in teleconferencing, for example.

• 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.

Dual Picture Mode

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













In the Picture-in-Picture display mode, the sub-screen picture can be displayed at a location where it has

OT DEALS ON VACATIONS AND CRU

Motion images and text messages can be displayed in parallel to each other. The running text message section at the bottom can be used to display "hot topics." 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



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.

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



13

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.

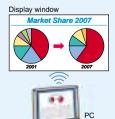
• High-Speed Wireless Transmission

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

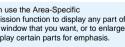
• Versatile Display Methods for Impressive Presentations

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.





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.

This function lets you enlarge a portion of an image by up to four

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

times normal size and display it on the full screen. Use this

function to give your presentations greater impact.

degradation occurs when images are enlarged.

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 HDTVstandard (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

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 highdefinition 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.

Energy-Saving Functions

A broad range of environment-friendly functions help minimize energy

- 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.
- 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
- · 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



Dual HDMI Terminal Board

TY-FB10HMD





• Provides simultaneous video and audio signal transmission using a single cable

Standard-Equipped Terminals

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

TH-103PF10UK TH-65PF10UK TH-50PF10UK TH-50DH10HKA TH-42PH10UKA



TH-37PH10UK



Optional Terminal Boards

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

TY-FB8HM



- Enables fully digital connection of signals from HDMI-compatible DVD players and other digital equipment for blur-free images with no color bleeding.

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.

| | TY-FB10HD | TY-FB9HD | TY-FB7SD |
|----------------------|------------------------------------|-------------|----------|
| Standards compliance | SMPTE292M, | SMPTE259M-0 | |
| Compatible video | 525/59.94i, 625/50i, 750/60p: 59.9 | 525/59.94i | |
| format | 1125/24p, 1125/60i: 59.94i, 1 | 625/50i | |
| Applicable displays | PF seires | | |

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)

HDMI

Specifications

Compatible audio forma

HDMI Licensing, LLC.

Applicable displays

Interface

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)

Linear PCM (Sampling frequency: 48/44.1/32 kHz)

TY-FB9RT

TY-FB10HMD

HDMI Type-A x 2

Compatible video format 525/60p, 625/50p, 750/60p, 750/50p, 1125/60i, 1125/50i, 525/60p, 625/50p, 750/60p

VGA60, 1125/60p (PF seires only),

1125/50p (PF series only), 1125/24p (PF seires only)

PF and PH series



HDMI Type-A

750/50p, 1125/60i, 1125/50i

VGA60

PF and PH series

Note: Only one terminal board can be used per display. Also,

PC Input Terminal Board (mounts in any slot)

TY-42TM6P



· Lets you display images from two or more PCs.

BNC Composite Video Terminal

* Does not support the DPMS function

Board (mounts in slot 1 or 2)

TY-42TM6B

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
- Plasma displays can be controlled using a Web browser.
- The Wireless Presentation Board also accepts component video and audio inputs.



| Specifications | |
|------------------------|---|
| Standards compliance | IEEE 802.11b/11g |
| Frequency range | 2.4 GHz |
| System Configuration I | Required by Wireless Manager ME 4.0 |
| 0S | 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 |
| | |

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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.



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.

TY-FB9BD

BNC Dual Video Terminal Board



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

TY-42TM6Y

(mounts in slot 1 or 2)



BNC Component Video Terminal Board (mounts in any slot)

TY-42TM6A



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 Pane 000

Note: Specifications of peripherals on this page are subject to change without notice.

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

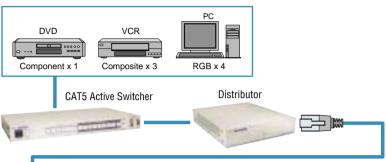
Specifications (KE0101CR-BW)

| opcomounions (KEO101 | on 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 _B , P _R : ± 0.35Vp-p (75 ohms) |
| | Video: 1.0Vp-p (75 ohms) |
| Power supply | Supplied from the plasma display |
| Power consumption | Approx. 6 W |
| | Ps, Ps: ± 0.35Vp-p (75 ohms) Video: 1.0Vp-p (75 ohms) Supplied from the plasma display |

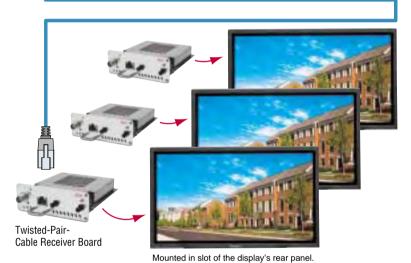
Twisted-Pair-Cable Transmitter/Active Switcher **KE811CTW**



- 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.



XGA signals can be sent up to 500 ft.





| 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 _B , P _R : ± 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 (KE010 | 8CH-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 | | | |

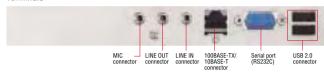
PDP Controller

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.

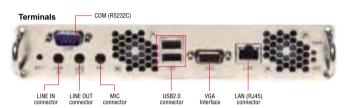
Terminals



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.



Specifications

| Model number | PLUG-VC251 | PLUG-EC1000 | PLUG-EC600 | PLUG-EC1000XPE | PLUG-EC600XPE | | |
|------------------------|---|--------------------------|--|--------------------------------|-----------------|--|--|
| Slot compatibility | requires slots 1 to 3 | | requires s | slots 1 to 2 | , | | |
| Processor | ULV Pentium Celeron 1 GHz | ULV Pentium | ULV Pentium | ULV Pentium | ULV Pentium | | |
| | | Celeron 1 GHz | eleron 1 GHz Celeron 600 MHz Celeron 1 GHz Celer | | 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 HD | D (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 | 1xL | AN, 2 x USB 2.0, 1 x Serial, 1 x | Line In/Out, 1 x Mic In, 1 x V | A Out | | |
| Pre-installed OS | Optional | - | _ | Windows > | P embedded | | |
| 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" (2 | 203 x 32 x 125 mm) | | | |
| Power supply | Supplied from the plasma display | | Supplied from the | ne plasma display | | | |
| Standards | FCC Class A | | FCC (| Class A | | | |

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 spee
- Dividable frame system for compact packaging

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





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



www.rica.no www.visithaugalandet.no



Golden Havest Hollywood, Hong Kong, China

AMUSEMENT



Dolphin Stadium, Miami, USA



Planet Hollywood Resort, Las Vegas, USA

PASSENGER INFORMATION



Kansai International Airport, Osaka, Japan



Minatomirai Station, Yokohama, Japan

TV PRODUCTION



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



ČESKÁ TELEVIZE's studio, Czech

CONTROL ROOM



Vatican Museum

TRADE SHOW



Volvo booth at Automobile exhibition, Sweden

21

1080p HD Models







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 | 10,0 | 00:1 |
| Gradation | -7 | 4,096 steps (equivalent) | |
| SIGNAL COMPATIBILITY | | , | |
| Scan Rate | Hor | rizontal frequency: 15 — 110 kHz; Vertical frequency: 48 —120 |) Hz |
| PC Signal Compatibility | VGA, WVG | A, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, WSXGA+, UXG | A, 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, 25 | 5p. 30p. 60p. 50p: 1250 (1080)/50i |
| NPUT/OUTPUT | 122 (127, 22, 12F, 320 (070), 001, | ,,,,,,,,,,, | |
| Fixed Terminals | | | |
| PC IN | Mini D-: | sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA D | DDC 2B) |
| AUDIO IN | | M3 jack x 1 | 200 20) |
| SERIAL | | D-sub 9-pin x 1, External control, RS-232C compatible | |
| Interchangeable Terminals | | b dub o pin x 1, External dentrol, No 2020 dempatible | |
| Slot1 | | | |
| Olot1 | Vacant | Vacant | Vacant |
| | 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 ^{*1}) | 95.0" x 55.9" x 5.1" | 61.2" x 36.4" x 3.9" | 47.6" x 28.5" x 3.7" |
| | (2,414 x 1,421 x 129 mm) | (1,554 x 925 x 99 mm) | (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 | |
| | | 020000 1011 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 | | 10.0 | 00:1 | | | | | | | | | |
| | Gradation 3,072 steps (equivalent) | | | | | | | | | | | |
| SIGNAL COMPATIBILITY | | 5,3. = 3.3. p. | (| | | | | | | | | |
| Scan Rate | | Horizontal frequency: 15 — 110 kH | Hz: Vertical frequency: 48 —120 Hz | | | | | | | | | |
| PC Signal Compatibility | VGA. | WVGA, SVGA, XGA, WXGA, WXGA+. | | /UXGA | | | | | | | | |
| . o oigna companismiy | - 7 | | (WXGA and over resolution; compressed) | | | | | | | | | |
| Supported Video Standards | (1776/11 4114 676) 166 | NTSC. PAL. PAL 60. S | | (Xax and over recolution, compressed | | | | | | | | |
| Video Signal Compatibility | 525 (480)/60i, 60p: 625 | (575)/50i, 50p; 750 (720)/60p, 50p; | | 5p. 30p 1250 (1080)/50i | | | | | | | | |
| NPUT/OUTPUT | 320 (100)/001, 000, 020 | (,,,,,,,, | (| , 1200 (1000)/001 | | | | | | | | |
| ixed Terminals | | | | | | | | | | | | |
| PC IN | Mi | ini D-sub 15pin x 1; Analog RGB/Co | mnonent: Plug & Play (VESA DDC | 2B) | | | | | | | | |
| AUDIO IN | | M3 ja | | -5, | | | | | | | | |
| SERIAL | | D-sub 9-pin x 1, External co | | | | | | | | | | |
| nterchangeable Terminals | | D dab o pin x 1, Externar oc | Shirot, No 2020 compansio | | | | | | | | | |
| Slot1 | | | | CVBS In (BNC x 1, Composite), Audio In (L/ | | | | | | | | |
| 0.001 | Vacant | Vacant | Vacant | (RCA pin jack x 2); S-Video In (S-Video x 1 | | | | | | | | |
| | vacant | vacant | vacant | Audio In (L/R) (RCA pic jack x 2) | | | | | | | | |
| Slot2 | | HDMI In x 2 | | Component In (BNC x 3, | | | | | | | | |
| OIOLE | | IIDMI III X Z | | Analog RGB/Component), | | | | | | | | |
| | | | | Audio In (L/R) (RCA pin jack x 2) | | | | | | | | |
| Slot3 | Component In (BNC x 3, Analog RGB/Component), | | | | | | | | | | | |
| 01010 | Compo | Audio In (L/R) (RCA pin jack x 2) | onone,, | _ | | | | | | | | |
| | | ridulo in (E/H) (Hort pin juot x 2) | | | | | | | | | | |
| LECTRICAL | | | | 1 | | | | | | | | |
| 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 | 22.1 2.11 0.0 11, 0.17 0.11 11 | 22.2 2 0.0 11, 0.0.0 0 0 11 | | 1 22.2 2 3 11, 32.7 31 0.0 11 | | | | | | | | |
| Audio Output | | 16 W [8 W + 8 V | W1 (10 % THD) | | | | | | | | | |
| MECHANICAL | | | , () | | | | | | | | | |
| Dimensions (W x H x D*1) | 55.1" x 33.2" x 3.9" | 47.6" x 28.5" x 3.7" | 40.2" x 24.0" x 3.5" | 36.2" x 21.7" x 3.5" | | | | | | | | |
| Dimonolog (WATTAD) | (1,399 x 843 x 99 mm) | (1,210 x 724 x 95 mm) | (1,020 x 610 x 89 mm) | (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) | | | | | | | | |
| | 110.0 lb3. (04.0 kg) | 7 3.4 Ib3. (00.0 kg) | 07.0 lb3. (20.0 kg) | 10.0 ibs. (22.0 kg) | | | | | | | | |
| PERATING ENVIRONMENT | | | | | | | | | | | | |
| | Temperature $32^{\circ}F - 104^{\circ}F (0^{\circ}C - 40^{\circ}C)$ | | | | | | | | | | | |
| Temperature | | | Humidity 20% — 80% (Non condensation) | | | | | | | | | |
| Temperature Humidity | | 20% — 80% (No | | | | | | | | | | |
| Temperature Humidity Altitude | | | | | | | | | | | | |
| Temperature Humidity Altitude | | 20% — 80% (No 0 — 9,100 feet | (0 — 2,800 m) | | | | | | | | | |
| Temperature Humidity | | 20% — 80% (No | (0 — 2,800 m) | | | | | | | | | |

^{*1:} Exclusive of protruding portion

Hospitality Plasma Models Also Available



TH-42PR10U 42-inch HD model



TH-37PR10U 37-inch HD model

Dimensions

(Unit: inch) TH-103PF10UK TH-65PF10UK TH-58PH10UKA TH-50PF10UK TH-50PH10UKA 12.9" TH-42PH10UKA 12.9" TH-37PH10UK With the optional pedestal TY-ST08-K attached.

Preset Input Signals

Preset Input Signals

| | | 2 | | oa, | | | £ | | ptional | remili | IAI DÜZ | ıu | | | | | <u>-</u> | Dot Cloc | ik (IVII1Z |
|---------------|---------------------|-------------------------------|----------------------------|--------------------------------------|--------------------------------|-----------------------|---------------------------------|--------------------------------|----------------------------|--------------------|--------------------|-----------------|--------------------|--------------------------------|------------------|-------------------------|---------------------------------------|---------------------------|------------|
| Sig | jnal name | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Composite/Component Vid 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 | нрмі ТҮ-ҒВ8НМ | Dual HDMI TY-FB10HMD | PC IN (D-Sub 15-pin Fixed Terminal | Component RGB In/PC In | DVI-D In |
| Ì | NTSC | 15.73 | 59.94 | Υ | | | | Y | Y | | | | | | | | | | |
| 1 | PAL | 15.63 | 50.00 | Υ | | | | Υ | Υ | | | | | | | | | | |
| | PAL60 | 15.73 | 59.94 | Υ | | | | Υ | Υ | | | | | | | | | | |
| numbne | SECAM | 15.63 | 50.00 | Υ | | | | Υ | Υ | | | | | | | | | | |
| 1 | Modified NTSC | 15.73 | 59.94 | Υ | | | | Υ | Υ | | | | | | | | | | |
| | 525 (480)/60i | 15.73 | 59.94 | Υ | Υ | Υ | Υ | | | | | Υ | Υ | Υ | | | Υ | 13.5 | |
| Ī | 525 (480)/60p | 31.47 | 59.94 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | Υ | Υ | Υ | 27.0 (*2) | 27.0 |
| | 625 (575)/50i | 15.63 | 50.00 | Υ | Υ | Υ | Υ | | | | | Υ | Υ | Υ | | | Υ | 13.5 | |
| | 625 (575)/50p | 31.25 | 50.00 | Υ | Υ | Υ | Υ | | | | Υ | | | | | | Υ | 27.0 | |
| | 625 (576)/50p | 31.25 | 50.00 | | | | | | | Υ | | | | | Υ | Υ | | | 27.0 |
|] د | 750 (720)/60p | 45.00 | 60.00 | Υ | Υ | Υ | Υ | | | Υ | Υ | | Υ | Υ | Υ | Υ | Υ | 74.25 | 74.25 |
| 2 | 750 (720)/50p | 37.50 | 50.00 | Υ | Υ | Υ | Υ | | | Υ | Υ | | Υ | Υ | Υ | Υ | Υ | 74.25 | 74.25 |
| Í | 1125 (1080)/60i | 33.75 | 60.00 | Υ | Υ | Υ | Υ | | | Υ | Υ | | Υ | Υ | Υ | Υ | Υ | 74.25 | 74.25 |
| ā١ | 1125 (1080)/60p | 67.50 | 60.00 | Y (*1) | Y (*1) | Y (*1) | Y (*1) | | | Υ | | | | | | Y (*1) | Y (*1) | 148.5 | 148.5 |
| component nap | 1125 (1080)/50i | 28.13 | 50.00 | Υ | Υ | Υ | Υ | | | Υ | Υ | | Υ | Υ | Υ | Υ | Υ | 74.25 | 74.25 |
|]د | 1125 (1080)/50p | 56.25 | 50.00 | Y (*1) | Y (*1) | Y (*1) | Y (*1) | | | Υ | | | | | | Y (*1) | Y (*1) | 148.5 | 148.5 |
| | 1125 (1080)/30p | 33.75 | 30.00 | Υ | Υ | Υ | Υ | | | Υ | | | Υ | Υ | | | Υ | 74.25 | |
| | 1125 (1080)/25p | 28.13 | 25.00 | Υ | Υ | Υ | Υ | | | Υ | | | Υ | Υ | | | Υ | 74.25 | |
| | 1125 (1080)/24p | 27.00 | 24.00 | Υ | Υ | Υ | Υ | | | Υ | | | Υ | Υ | | Y (*1) | Υ | 74.25 | |
| Ī | 1125 (1080)/24sF | 27.00 | 48.00 | Υ | Υ | Υ | Υ | | | | | | Υ | Υ | | | Υ | 74.25 | |
| Ī | 1250 (1080)/50i | 31.25 | 50.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 74.25 | |
| T | 640 x 400 @70Hz | 31.46 | 70.07 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 25.17 | |
| | 640 x 480 @60Hz | 31.47 | 59.94 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | Υ | | Υ | 25.18 (*3) | 25.18 |
| | 640 x 480 @72Hz | 37.86 | 72.81 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 31.5 | |
| Ī | 640 x 480 @75Hz | 37.50 | 75.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 31.5 | |
| Ī | 640 x 480 @85Hz | 43.27 | 85.01 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 36.0 | |
| İ | 800 x 600 @56Hz | 35.16 | 56.25 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 36.0 | |
| Ī | 800 x 600 @60Hz | 37.88 | 60.32 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | | | Υ | 40.0 | 40.0 |
| | 800 x 600 @72Hz | 48.08 | 72.19 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 50.0 | |
| Ī | 800 x 600 @75Hz | 46.88 | 75.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 49.5 | |
| Ī | 800 x 600 @85Hz | 53.67 | 85.06 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 56.25 | |
| Ī | 852 x 480 @60Hz | 31.47 | 59.94 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | | | Υ | 33.54 (*3) | 34.24 |
| Ī | 1024 x 768 @50Hz | 39.55 | 50.00 | | | | | | | Υ | | | | | | | | | 51.89 |
| Ī | 1024 x 768 @60Hz | 48.36 | 60.00 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | | | Υ | 65.0 | 65.0 |
| | 1024 x 768 @70Hz | 56.48 | 70.07 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 75.0 | |
| Ī | 1024 x 768 @75Hz | 60.02 | 75.03 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 78.75 | |
| Ī | 1024 x 768 @85Hz | 68.68 | 85.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 94.5 | |
| اٰ ہ | 1066 x 600 @60Hz | 37.64 | 59.94 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | | | Υ | 53.0 | 53.0 |
| 2 | 1152 x 864 @60Hz | 53.70 | 60.00 | | | | | | | Υ | | | | | | | | | 81.62 |
| Ī | 1152 x 864 @75Hz | 67.50 | 75.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 108.0 | |
| Ī | 1280 x 960 @60Hz | 60.00 | 60.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 108.0 | |
| Ī | 1280 x 960 @85Hz | 85.94 | 85.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 148.5 | |
| İ | 1280 x 1024 @60Hz | 63.98 | 60.02 | Υ | Υ | Υ | Υ | | | Υ | | | | | | | Υ | 108.0 | 108.0 |
| Ī | 1280 x 1024 @75Hz | 79.98 | 75.03 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 135.0 | |
| İ | 1280 x 1024 @85Hz | 91.15 | 85.02 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 157.5 | |
| Ī | 1366 x 768 @50Hz | 39.55 | 50.00 | | | | | | | Υ | | | | | | | | | 69.92 |
| İ | 1366 x 768 @60Hz | 48.36 | 60.00 | Υ | Υ | Υ | Υ | | | Υ | Υ | | | | | | Υ | 86.71 | 87.44 |
| İ | 1400 x 1050 @60Hz | 65.22 | 60.00 | | | | | | | Υ | | | | | | | | | 122.6 |
| İ | 1600 x 1200 @60Hz | 75.00 | 60.00 | Υ | Υ | Υ | Υ | | | Υ | | | | | | | Υ | 162.0 | 162.0 |
| İ | 1600 x 1200 @65Hz | 81.25 | 65.00 | Υ | Υ | Υ | Υ | | | | | | | | | | Υ | 175.5 | |
| İ | 1920 x 1080 @60Hz | 67.50 | 60.00 | Y (*1) | Y (*1) | Y (*1) | Y (*1) | | | Υ | | | | | | | Y (*1) | 148.5 | 148.5 |
| t | 1920 x 1200 @60Hz | 74.04 | 59.95 | (-) | , ., | , | , | | | Y | | | | | | | , | | 154.0 |
| İ | Mac 13 (640 x 480) | 35.00 | 66.67 | Υ | Υ | Υ | Υ | | | Ė | | | | | | | Υ | 30.24 | |
| Ì | Mac 16 (832 x 624) | 49.72 | 74.54 | Y | Y | Y | Υ | | | | | | | | | | Y | 57.28 | |
| ł | Mac 21 (1152 x 870) | 68.68 | 75.06 | Y | Y | Y | Y | | | | | | | | | | Y | 100.0 | |

*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)



Pin Assignment and Signal Name

| Pin No. | Signal name | Descriptions | | | | |
|---------|-------------|---------------|--|--|--|--|
| 1 | CD | NC | | | | |
| 2 | RXD | Receive Data | | | | |
| 3 | TXD | Transmit Data | | | | |
| 4 | DTR | Not used | | | | |
| 5 | GND | Ground | | | | |
| 6 | DSR | Not used | | | | |
| 7 | RTS | Short Circuit | | | | |
| 8 | CTS | Short Gilcuit | | | | |
| 9 | RI | NC | | | | |

Communication Parameters

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

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



Signal Name

| Pin No. | Signal name | Pin No. | Signal name |
|---------|--------------------|---------|--------------------|
| 1 | R (PR/Cr) | 9 | +5V DC |
| 2 | G (Y) | 10 | GND (Ground) |
| 3 | B (PB/CB) | 11 | NC (Not connected) |
| 4 | NC (Not connected) | 12 | SDA |
| 5 | GND (Ground) | 13 | HD/SYNC |
| 6 | GND (Ground) | 14 | VD |
| 7 | GND (Ground) | 15 | SCL |
| 8 | GND (Ground) | | |

Supplied Remote Control

(Comes with every Panasonic Plasma Display model.)

Off Timer

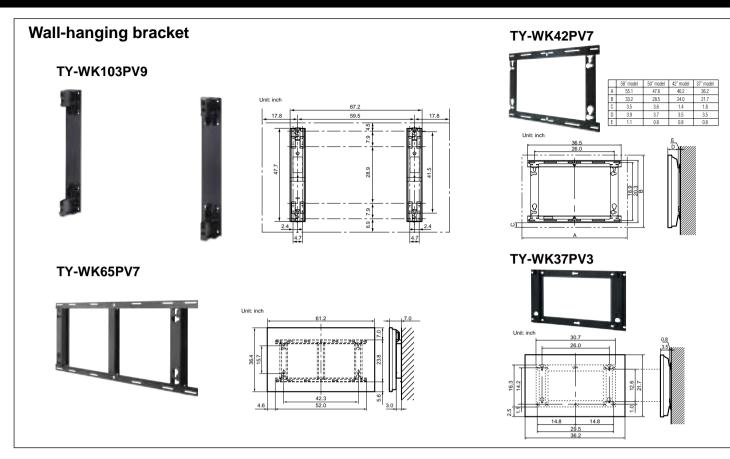
Normal/ID Remote Selection ID Number Set

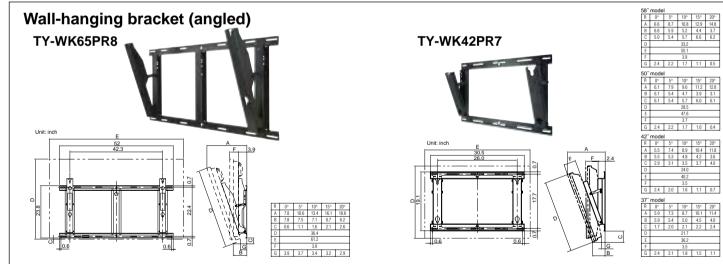
Remote Control Functions

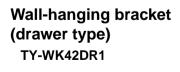


Direct Input Selection (1/2/3/PC) Input Selection Status Surround On/Off Sound Mute On/Off Volume Up/Down Exit (R)
Position/Action Digital Zoom Dual Picture (MULTI PIP/SWAP/SELECT/MOVE) Picture Position/Size Aspect PC Mode Selection

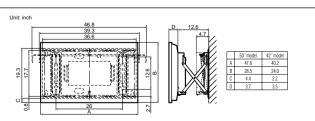
Options



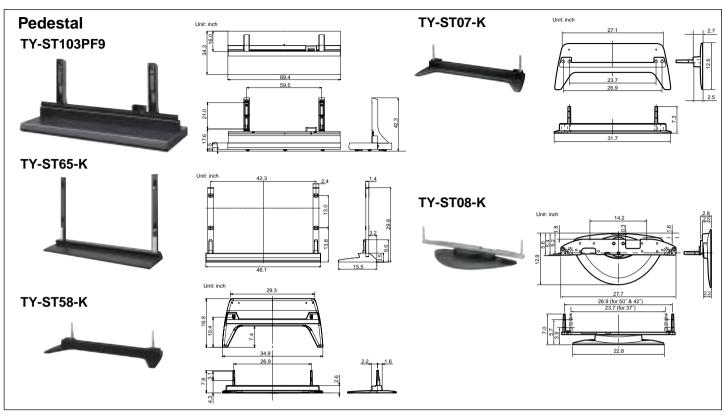


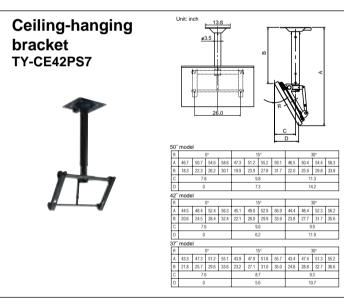


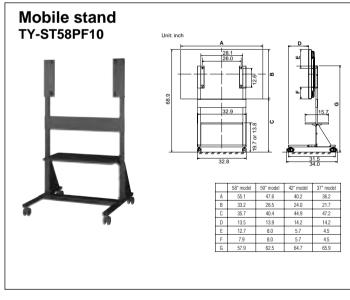




| Compatible Models at a Glance ●: Compatible;—: Not compatible | | | | | | | | | | | | | ot compatible | |
|---|-------------|-----------|-----------|-----------|-----------|-------------|------------|------------|------------|------------|------------|------------|---------------|------------|
| | TY-ST103PF9 | TY-ST65-K | TY-ST58-K | TY-ST07-K | TY-ST08-K | TY-WK103PV9 | TY-WK65PV7 | TY-WK42PV7 | TY-WK37PV3 | TY-WK65PR8 | TY-WK42PR7 | TY-WK42DR1 | TY-ST58PF10 | TY-CE42PS7 |
| TH-103PF9UK | • | _ | _ | _ | _ | • | _ | _ | _ | _ | _ | _ | _ | _ |
| TH-65PF9UK | _ | • | _ | _ | _ | _ | • | 1 | _ | • | _ | _ | _ | _ |
| TH-58PH10UKA | _ | _ | • | _ | _ | _ | _ | • | _ | | • | _ | • | _ |
| TH-50PF9UK/50PH10UKA | _ | _ | _ | • | • | _ | _ | • | _ | - | • | • | • | • |
| TH-42PH10UKA | _ | _ | _ | • | • | _ | _ | • | _ | - | • | • | • | • |
| TH-37PH10UK | _ | _ | _ | • | • | _ | _ | • | • | _ | • | _ | • | • |







Anti-glare filter

TY-AR65P9W (for TH-65PF10UK)
TY-AR58P10W (for TH-58PH10UKA)

TY-AR50P9W (for TH-50PF10UK/50PH10UKA)
TY-AR42P9W (for TH-42PH10UKA)

Detachable stereo speakers



TY-SP65P10WK (for TH-65PF10UK)

Configuration: 2-way, 3-speaker Dimensions (W x H x D): 4.4° x 36.4° x 3.5° (111 x 925 x 90 mm) Weight: 4.9 lbs. (2.2 kg)/each

TY-SP58P10WK (for TH-58PH10UKA)

Configuration: 2-way, 3-speaker
Dimensions (W x H x D): : 4.2" x 33.2" x 3.5" (107 x 843 x 88 mm)
Weight: 5.5 lbs. (2.5 kg)/each

TY-SP50P8W-K (for TH-50PF10UK/50PH10UKA)

Configuration: 2-way, 3-speaker

Dimensions (W x H x D): 4.2" x 28.5" x 3.5" (107 x 724 x 88 mm) Weight: 4.4 lbs. (2.0 kg)/each

TY-SP42P8W-K (for TH-42PH10UKA)

Configuration: 2-way, 3-speaker Dimensions (W x H x D): 4.2" x 24.0" x 3.5" (107 x 610 x 88 mm) Weight: 4.4 lbs. (2.0 kg)/each

TY-SP37P8W-K (for TH-37PH10UK)

Configuration: 2-way, 3-speaker Dimensions (W x H x D): 4.2" x 21.7" x 3.5" (107 x 550 x 88 mm) Weight: 4.4 lbs. (2.0 kg)/each