10-Series
Professional Plasma Displays

Superior Image Quality / Long Service Life / Ecological Design
Panasonic’s wide-ranging lineup: From a 103-inch Full HD model to a 42-inch SD model

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 42 inches to an industry-leading* 103 inches, our lineup is broad enough to meet 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 too.

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 light, rich blacks – a hallmark of high-quality plasma displays – as well as smooth, naturally toned 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 Colours

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

The Industry’s Top Level of Gradation

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

4,096 gradation steps

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 where the brightness fades over time. This means they can provide bright, beautiful pictures over many years of use. Further, 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. Pan and PS series offer a service life of about 60,000 hours.

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. By making our plasma displays lead-free, we reduce lead use by 280.5 tons* each year – about the same total weight as 187 automobiles.*

* Calculated assuming a weight of 1.5 tons per automobile.

Panasonic’s wide-ranging lineup: From a 103-inch Full HD model to a 42-inch SD model

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103

187 cars

100,000 hours

42

65

58

50

50

42

50
Advanced Multi-Screen Capability

The multi-screen video wall capability has been expanded to a maximum of 5 x 5 screens – the largest 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.

Portait 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.

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 saves a lot of this 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.

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

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 a huge 103-inch plasma display for dynamic, eye-catching images. For example, you could use this feature to display life-size images of fashion models on a catwalk.
Ultimate Full HD Plasma Displays with 10,000:1 Contrast, 4,096 Gradation Steps and 100,000-Hour Service Life

Explore a Wider World of Video Applications

MONITORING
Our 103-inch model is perfect for control rooms, where crystal-clear display of detailed information is essential. In image quality, Panasonic Full HD plasma models easily outperform projection displays. They can also be installed in places where bulky conventional direct-viewing displays could not.

DIGITAL SIGNAGE

TV-VIDEO PRODUCTION

PRESENTATIONS
Panasonic Full HD models provide a big-screen display of data such as CAD images with sustaining clarity, detail and colour accuracy. Able to display highly-detailed documents and images with exceptional clarity and whitness, Panasonic plasmas are suitable for use in conferences and presentations with large audiences.

T-V VIDEO PRODUCTION
Panasonic Full HD models reproduce colours across the entire HDTV-standard range, so colours from HD sources are faithful and natural-looking. Supporting 10-bit input signals, the HD-SDI terminal board achieves precise colour reproduction and rich gradation.

TH-65PF10WK
65-inch (165 cm) diagonal
Full High Definition Plasma Display

TH-103PF10WK
103-inch (260 cm) diagonal
Full High Definition Plasma Display

TH-50PF10WK
50-inch (127 cm) diagonal
Full High Definition Plasma Display

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.

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.

Conventional
Full HD Plasma Panel

4,096 Equivalent Steps of Gradation

Conveys fine detail.

Reproducing the Entire HDTV Colour Range

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

Digital Colour Reality for Accurate Colour Reproduction

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

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 colour changes occur.

Full HD Panel — Twice as Much Image Information

Our Full 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.

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 Full HD, reproducing crisp, sharp images that move smoothly.

4,096 equivalent steps of gradation

Reproduces the full range of colours specified in the HDTV standard (ITU-R. BT709), so images are faithful to the original HD source.

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*1: 5,000:1 for 103-inch model.
Industry-Leading HD/SD Plasma Displays — Advanced Technologies Deliver Superb Picture Quality

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.

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.

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 colour separately for crisper, more natural-looking images.

Smoothing, 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 maximise 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.

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 plasma offer ultra-flexible installation: mount them vertically and add a touch panel for one-on-one interaction.

ENTERTAINMENT
The Panasonic plasma display 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 slot lets you customize the unit for specific applications.

Deep, Rich Blacks — New Real Black Creation
Contrast: 10,000:1

Front protection glass

Ambient light

No correction
Correction

New Deep Black Filter

Part with no motion
Part with slight motion
Part with large motion
Part with motion

Smooth, Clear Motion Images — Motion Pattern Noise Reduction

Black image areas with insufficient gradation lack detail.

Bright image areas with insufficient gradation lack detail.

New Real Black Creation

Conventional

1 field

2 field

Strong pre-discharge emission

Weak pre-discharge emission

Emission intensity

Emission intensity

Contrast: 10,000:1

No correction

Correction

New Deep Black Filter

Light transmittance

Weak pre-discharge emission

Strong pre-discharge emission

Front glass

Part with no motion

Part with motion

Part with slight motion

Part with large motion

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

TH-50PH10AK/AS
TH-50PH10MK/MS

TH-58PH10WK
58-inch (148 cm) diagonal
High Definition Plasma Display

TH-42PH10AK/AS
TH-42PH10MK/MS
42-inch (106 cm) diagonal
High Definition Plasma Display

TH-42PS10AK/AS
TH-42PS10MK/MS
42-inch (106 cm) diagonal
Progressive Wide Plasma Display

TH-50PH10AK/MK
TH-42PH10AK/MK
TH-42PS10AK/MK

TH-50PH10AS/MS
TH-42PH10AS/MS
TH-42PS10AS/MS

TH-58PH10WK
Dynamic Images Draw Attention & Strongly Appeal to Viewers

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.

  Note: Images at 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. PS series is not equipped with this 4x or Mx image-enlarging function.

- **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.

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- **Digital Banners Utilize Vertical Space**
  Multi-screen systems can be easily configured to make effective use of the vertical space in locations such as entrances, entryways, and lobbies. These digital banners catch widespread attention with their unique combination of sophistication and visual appeal.

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.

Multi Display Function

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.

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

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

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

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

Dynamic Images Draw Attention & Strongly Appeal to Viewers

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Advanced Functions Help Create Effective Digital Signage

Storefront Advertising with Effective Displays of Moving Images and Text Messages
Panasonic professional 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.

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.

Enhanced Screen Saver Functions
A variety of screen saver functions help lower the risk of uneven phosphor ageing.
- 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.
- Webbling: 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).

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.

**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.

- Single picture
- Picture-and-Picture
- Picture-out-Picture
- Picture-in-Picture

- Motion images and text messages can be displayed in portrait orientation. The running text message section at the bottom can also be displayed “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 in the top and bottom. Thanks to the simple and neat layout, motion images accentuate the entire screen.
- Motion images and text messages are arranged side by side. Since both the top and bottom content contain motion, they draw attention for more effective advertising.

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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 change 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.
- 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.

Advanced Functions Suitable for Use in Broadcast Stations
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.

HD-SDI System for Broadcast Use
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Adapts Easily to HD-SDI Systems
The HD-SDI terminal board supports max. 10-bit input signals, for greater colour reproduction precision and richer gradation. With outstanding reproducibility across the entire HDTV-standard (ITU-R, BT709) colour range, Panasonic 1080p HD panels deliver faithful, natural-looking colours 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.

103-inch plasma displays
Conventional CRT monitors

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.
- Power Save Mode: Reduces power consumption when on standby. (Start-up may take a few moments once the display is in this mode.)

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.

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.

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

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.

1:1 Pixel Mode (PF series only)
The 1:1 Pixel mode maps the 1920 x 1080 video content to 1088p 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.

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Studio W/B Mode
This lets you set the colour temperature that best matches applications in broadcast stations and studios.

Display window
Conventional CRT monitors
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4x Digital Zoom
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Note: Digital Zoom does not work in Dual Picture mode.
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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.
Industry’s Best Expandability

**Multi-Function Slots**

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

**Optional Terminal Boards**

- **Dual HDMI Terminal Board** (fits in slots 1 or 2)
  - TY-FB10HMD
  - Enables fully digital connection of signals from HDMI-compatible DVD players and other digital equipment for full-screen images with no colour bleeding.
  - Provides simultaneous video and audio signal transmission using a single cable.

- **HDMI Terminal Board** (fits in slots 1 or 2)
  - TY-FB88HM
  - Sends the signal that's input via the PC IN terminal to a single screen.
  - Lets you connect a PC or other compatible digital equipment that outputs digital RGB signals (DVI-D compliant).
  - Supports HDCP.

- **RGB Active Through Terminal Board** (fits in slots 1 or 2)
  - TY-42TM6G
  - Sends the signal that's input via the PC IN terminal to a second display connected to the PC OUT terminal. This connectivity adds convenience when configuring a multi-screen system.

- **DVI-D Terminal Board** (fits in slot 1 or 2)
  - TY-FB9FDD (for PF series)
  - TY-42TM6D (for PN/PS series)
  - Lets you display images from two or more PCs.

- **Ir Through Terminal Board** (fits in slot 1 or 2)
  - TY-FB9RT
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **BNC Dual Video Terminal Board** (fits in slots 1 or 2)
  - TY-FB9BD
  - Sends the signal that's input via the PC IN terminal to a second display connected to the PC OUT terminal. This connectivity adds convenience when configuring a multi-screen system.

- **BNC Component Video Terminal Board** (fits in slot 1 or 2)
  - TY-42TM6A
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **Composite/Component Video Terminal Board** (fits in slots 1 & 2, or slots 2 & 3)
  - TY-42TM6Y
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **SCART Terminal Board** (fits in slots 1 or 2)
  - TY-FB8SC
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **U/V Tuner Board** (fits in slots 2 & 3)
  - TY-FB8TA
  - Provides seamless switching between PC and video inputs.

**Standard-Equipped Terminals**

- **SDI/S-SDI Terminal Board** (fits in slot 1 or 2)
  - TY-FB9FDD
  - HD-SDI Terminal Board with Audio
  - 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-FB7SD and TY-FB9HD support HDTV.

- **Wireless Presentation Board** (fits in slots 1 & 2, or slots 2 & 3)
  - TY-FB10WPE
  - Application models: PF and PH series
  - Lets you display images from one PC on the display in real-time.

- **BNC Component Video Terminal Board** (fits in slot 1 or 2)
  - TY-42TM6A
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **Composite/Component Video Terminal Board** (fits in slots 1 & 2, or slots 2 & 3)
  - TY-42TM6Y
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **SCART Terminal Board** (fits in slots 1 or 2)
  - TY-FB8SC
  - Sends the signal that's input via the PC IN terminal to a single screen.

- **U/V Tuner Board** (fits in slots 2 & 3)
  - TY-FB8TA
  - Provides seamless switching between PC and video inputs.

**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.

- **Applicable models: PF and PH series**
  - TY-FB300
  - TY-FB300W
  - TY-FB350
  - TY-FB350W
  - TY-FB400
  - TY-FB400W
  - TY-FB700
  - TY-FB700W
  - TY-FB900
  - TY-FB900W
  - TY-PF700
  - TY-PF800
  - TY-PF900
  - TY-PF900W

**Specifications**

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<td>X 2</td>
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</tbody>
</table>

**Note:**

- Supports the serial digital interface (SDI) used in broadcasting.
- TY-FB10HD provides simultaneous video and audio signal transmission using a single cable.
- TY-FB7SD and TY-FB9HD support HDTV.

**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.
  - TY-TB10AV can also be built into a desk or a bed sideboard.
Peripherals

PDP Controller

ETX-1312C Series (Mounts in slots 1 & 2)

- Compact plug-in PC to facilitate turnkey solutions.
- Does not require any external power sources or any external brackets.
- Ease of use.
- Supports Compact Flash Cards.
- Supports VGA Display.

For the latest information on the ETX-1312C Series:
EINS TECHNOLOGY PTE LTD
TEL:+65 6440 1811 FAX:+65 6440 2792 Website: www.einsttech.com

Touch Panel

Touch Panel (Infrared Retroreflection-Detection-System)
- TY-TP65P10S (for TH-65PF10/10WK)
- TY-TP58P10S (for TH-58PF10/58PH10/10WK series)
- TY-TP50P10S (for TH-50PF10/50PH10 series)
- TY-TP42P10S (for TH-42PF10/42PH10 series)

Touch Panel (Optical-System)
- TY-TP50P6S-S (for TH-50PF10/50PH10 series)
- TY-TP42P6S-S (for TH-42PF10/42PH10 series)

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

For the latest information on the Touch Panel:
You cannot mount both a TY-TP65P10S, TP58P10S, TP50P8-S, or TP42P8-S Touch Panel and an Anti-Glare Filter at the same time.

Digital Signage/Narrowcasting System

Easy, interactive content distribution system for retail chains and public spaces such as shopping malls, office buildings and hotels.

- Constructing a Multi-Language Environment
  In contrast with conventional methods, in which several information panels are prepared in different languages, this digital system allows visitors to simply touch the panel itself to switch to the language they want. It is a highly effective and efficient way to offer people the content that they want to see.

- Flexible Content Control
  Each PC connected to the Plasma has a unique IP address, allowing content to be streamed to the Plasma on any LAN, modem, Internet or Satellite network. It speeds up the process of updating information, and any combination of Plasmas can be controlled locally or from a central location.

- Space-Saving and Easy to Install
  We have slimmed down the display system by incorporating the optional PDP Controller right inside the plasma display. It requires only two connections, power and network.

- Universal System Design
  Since the entire system can be configured in a Windows environment, it requires no special software for content production or operation.

System Configuration

- You can configure 50-inch displays and control system by simply combining Panasonic 50-inch Plasma Display and the Touch Panel, then mounting the PDP Controller in the function slot of the plasma display.
- Content is distributed by a centralized control PC in an office and stored in the hard drive of each PDP controller, ready to be displayed by touch panel operation.

Digital Signage

Space-saving and easy to install

Effective Interactive System

Function slots make it possible to combine various types of video equipment into an interactive system capable of reproducing a wide range of visual materials. Using the Ir Through Terminal Board, the video equipment can be operated by remote control while it is stored in racks to keep the room neat and tidy. The touch panel adds to the persuasive power of presentations and explanations. This system is ideal for seminar rooms, meeting rooms, or small lecture halls.

- Supports a Wide Variety of Video Sources
  The BNC Dual Video Terminal Board and Component Video Terminal Board enable connection to various video devices. You can display images from VCRs, S-VHS VCRs, DVD players, and more.

- Keeps the Room Neat and Attractive
  The video devices can be connected to the Ir Through Terminal Board and placed out of the way in racks. Each device can then be operated via the remote control sensor on the display. You can even close the rack doors to keep the room interior neat and uncluttered for more comfortable discussions.

- Clear Visual Communications
  With the Touch panel, you can write comments directly onto the screen. Make your meetings more precise by clearly rotating the materials displayed on-screen.

The touch panel clearly drives your points across!
An Endless Array of Applications

**DIGITAL SIGNAGE**
- Shopping Mall, Budapest, Hungary
- Grand Century, Hong Kong, China
- Rica Maritim Hotel, Norway
- Golden Harvest 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
Line Up

Full HD Models

TH-103PF10WK
103-inch (260 cm) diagonal
Full High Definition Plasma Display

TH-65PF10WK
65-inch (165 cm) diagonal
Full High Definition Plasma Display

TH-50PF10WK
50-inch (127 cm) diagonal
Full High Definition Plasma Display

TH-37PF10A/MS
37-inch HD model

TH-42PF10A/MS
42-inch HD model

HD Models

TH-58PH10WK
58-inch (148 cm) diagonal
High Definition Plasma Display

TH-50PH10A/AS
50-inch (127 cm) diagonal
High Definition Plasma Display

TH-42PH10A/MS
42-inch (106 cm) diagonal
High Definition Plasma Display

TH-42PS10A/MS
42-inch (106 cm) diagonal
Progressive Wide Plasma Display

TH-42PS10A/AS
42-inch (106 cm) diagonal
Progressive Wide Plasma Display

TH-42PS10MK/MS
42-inch (106 cm) diagonal
Progressive Wide Plasma Display

TH-50PS10A/MS
50-inch (127 cm) diagonal
Progressive Wide Plasma Display

TH-65PS10A/MS
65-inch (165 cm) diagonal
Progressive Wide Plasma Display

TH-103PF10WK
103-inch (260 cm) diagonal
Full High Definition Plasma Display

 specifications

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<th>TH-42PH10A/MS</th>
<th>TH-42PS10A/MS</th>
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<td>TH-42PH10MK/MS</td>
<td>TH-42PS10MK/MS</td>
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<td>Model for other countries</td>
<td>TH-50PH10MS</td>
<td>TH-42PH10MS</td>
<td>TH-42PS10MS</td>
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</table>

 Display

- **Panel Type**: Plasma Display
- **Display Size**: TH-50PH10A/AS: 50 inches, TH-42PH10A/MS: 42 inches
- **Resolution**: TH-50PH10A/AS: 1,366 x 768 pixels, TH-42PH10A/MS: 1,024 x 768 pixels
- **Aspect Ratio**: 16:9
- **Effective Display Area**: TH-50PH10A/AS: 1,287 x 723 mm, TH-42PH10A/MS: 920 x 518 mm
- **Contrast Ratio**: TH-50PH10A/AS: 5,000:1, TH-42PH10A/MS: 10,000:1
- **Gradation**: TH-50PH10A/AS: 4,096 steps, TH-42PH10A/MS: 4,096 steps

 Signal Compatibility

- **Resolution**: TH-50PH10A/AS: 1,366 x 768 pixels, TH-42PH10A/MS: 1,024 x 768 pixels
- **Aspect Ratio**: 16:9
- **Effective Display Area**: TH-50PH10A/AS: 1,287 x 723 mm, TH-42PH10A/MS: 920 x 518 mm
- **Contrast Ratio**: TH-50PH10A/AS: 5,000:1, TH-42PH10A/MS: 10,000:1
- **Gradation**: TH-50PH10A/AS: 4,096 steps, TH-42PH10A/MS: 4,096 steps

 Power Requirement

- **AC Power**: TH-50PH10A/AS: 220 - 240 V AC, 50 Hz/60 Hz, TH-42PH10A/MS: 220 - 240 V AC, 50 Hz/60 Hz
- **Power Consumption**: TH-50PH10A/AS: 725 W, TH-42PH10A/MS: 595 W
- **Power off Condition**: TH-50PH10A/AS: 0.5 W, TH-42PH10A/MS: 0.3 W
- **Stand-by Condition**: TH-50PH10A/AS: 1.0 W, TH-42PH10A/MS: 0.7 W

 Audio

- **Audio Output**: TH-50PH10A/AS: Line Out (L/R) 20 W (10 % THD), TH-42PH10A/MS: 16 W (8 W + 8 W) (10 % THD)

 Mechanical

- **Dimensions (W x H x D)**: TH-50PH10A/AS: 1,287 x 723 mm x 99 mm, TH-42PH10A/MS: 920 x 518 mm x 95 mm
- **Weight**: TH-50PH10A/AS: 54.0 kg, TH-42PH10A/MS: 36.0 kg

 Temperature

- **Operating Temperature**: TH-50PH10A/AS: 0 °C to 40 °C, TH-42PH10A/MS: 0 °C to 40 °C
- **Humidity**: TH-50PH10A/AS: 20% - 80% (Non condensation), TH-42PH10A/MS: 20% - 80% (Non condensation)

 Operating Environment

- **Altitude**: TH-50PH10A/AS: 0 m to 2,800 m, TH-42PH10A/MS: 0 m to 2,800 m

 Radiation Regulations

- **CISPR22 Class-B**

 Safety Standards

- **CE Marking**, **VDE**, **MCS**, **EN55013**, **CSA**, **CTI**, **FCC Class A**

 Product Information

- **Product Name**: TH-50PH10A/AS, TH-42PH10A/MS
- **Model**: TH-50PH10A/AS, TH-42PH10A/MS
- **Manufacturer**: Panasonic

 Also Available

- **TH-42PR10A/M**
- **TH-42PG10A/M**
- **TH-37PR10A/M**

 Specifications

- **TH-58PH10WK**
- **TH-50PH10A/AS**
- **TH-42PH10A/MS**
- **TH-42PS10A/MS**

**Notes**

*1: Exclusive of protruding portion
Dimensions

TH-103PF10WK

TH-69PF10WK

TH-58PF10WK

TH-69PF10WK

TH-58PH10WK

TH-69PH10 Series

TH-42PH10 Series

TH-42PS10 Series

Preset Input Signals

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

Pin Assignment and Signal Name

<table>
<thead>
<tr>
<th>Pin No</th>
<th>Signal name</th>
<th>Descriptions</th>
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<tr>
<td>2</td>
<td>RXD</td>
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<td>3</td>
<td>TXD</td>
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<td>4</td>
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<tr>
<td>5</td>
<td>CTS</td>
<td>Not used</td>
</tr>
<tr>
<td>6</td>
<td>DTR</td>
<td>Not used</td>
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<td>7</td>
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<tr>
<td>8</td>
<td>DCE</td>
<td>—</td>
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<tr>
<td>9</td>
<td>NC</td>
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</tbody>
</table>

Communication Parameters

Asynchronous

Baud Rate: 9600 bps
Character Length: 8 bits
Stop Bit: 1 bit
Flow Control: —

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

Pin No  Signal type  Signal level
1  +5V DC  Signal Level Complied with RS232C
2  GND (Ground)  Signal Level Complied with RS232C
3  B (P B/CB)  Signal Level Complied with RS232C
4  NC (Not connected)  Signal Level Complied with RS232C
5  GND (Ground)  Signal Level Complied with RS232C
6  R (P R/CR)  Signal Level Complied with RS232C
7  SDA  Signal Level Complied with RS232C
8  SCL  Signal Level Complied with RS232C
9  RXD  Signal Level Complied with RS232C
10  RTS  Signal Level Complied with RS232C
11  CTS  Signal Level Complied with RS232C
12  DTR  Signal Level Complied with RS232C
13  DSR  Signal Level Complied with RS232C
14  DCE  Signal Level Complied with RS232C
15  NC  Signal Level Complied with RS232C

Supplied Remote Control

*1: The PH/PS series does not accept these signals.

Note:
When a signal having a resolution that exceeds the panel resolution is input, a simplified display will be produced.

TH-42PH10 Series

TH-42PS10 Series

TH-58PH10 Series

TH-58PF10WK

TH-69PH10 Series

TH-42PH10 Series

TH-42PS10 Series

Dimensions

(Units: mm)
Options

Wall-hanging bracket
TY-WK103PV9  TY-WK5PV7  TY-WK42PV7

Wall-hanging bracket (angled)
TY-WK65PR8  TY-WK42PR7

Wall-hanging bracket (drawer type)
TY-WK42DR1

Pedestal
TY-ST103PF9

Ceiling-hanging bracket
TY-CE42PS7

Mobile stand
TY-ST58PF10

Anti-glare filter
TY-AR50P9W (for TH-42PH10/42PS10 Series)
TY-AR58P10W (for TH-50PH10W, TH-58PH10WK, TH-65PH10WK)
TY-AR42P9W (for TH-42PH10AS/MS, TH-42PS10AS/MS)

Compatible Models at a Glance

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Dimensions (W x H x D): 107 x 843 x 88 mm</th>
<th>Weight: 2.5 kg/each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>Dimensions (W x H x D): 107 x 724 x 88 mm</td>
<td>Weight: 2.0 kg/each</td>
</tr>
<tr>
<td>Configuration</td>
<td>Dimensions (W x H x D): 111 x 925 x 90 mm</td>
<td>Weight: 2.2 kg/each</td>
</tr>
</tbody>
</table>

Detachable stereo speakers

TY-SP65P10WK (for TH-55PF10WK)  Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 111 x 925 x 90 mm  Weight: 2.2 kg/each

TY-SP65P10W (for TH-55PH10W)  Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 107 x 724 x 88 mm  Weight: 2.0 kg/each

TY-SP42P8W-K (for TH-42PF10/42PS10 Series)  Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 107 x 610 x 88 mm  Weight: 2.0 kg/each

TY-SP42P8W-S (for TH-42PF10AS/MS, TH-42PS10AS/MS)  Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 107 x 610 x 88 mm  Weight: 2.0 kg/each