Panasonic Professional Display Company
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Panasonic ideas for life

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

10-Series
Professional Plasma Displays
Panasonic’s wide-ranging lineup: From a 103-inch 1080p HD model to a 37-inch HD model

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.

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.

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 (8.5 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. Exclusive afterimages and malfunctions. PH series offers a service life of about 60,000 hours.

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

TH-103PF10UK
1080p HD

TH-65PF10UK

TH-50PF10UK

TH-58PH10UKA

TH-50PH10UKA

TH-42PH10UKA

TH-37PH10UK

HD
Advanced Multi-Screen Capability

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

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 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.

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.

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

**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.

**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 Gradiation**

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**

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.

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Explore a Wider World of Video Applications

**PRESENTATIONS**

Panasonic 1080p HD models provide a high definition display for data such as CAD images with outstanding clarity, detail and color accuracy. Also for display highly detailed documents and images with exceptional smoothness.

Panasonic plasma is a versatile tool for use in business and present figures with large audience.

**TV/VIDEO PRODUCTION**

Panasonic 1080p HD models reproduce color across the entire HDTV standard range, so colors from HD source material are true and natural-looking. Supporting 10-bit input signals, the 1080p plasma has a broader addressing precision color reproduction and rich gradation.

**Reproducing the Entire HDTV Color Range**

HD sources are based on the HDTV standard rather than the conventional NTSC standard. For our 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 ambiance that were difficult for previous systems to deliver.

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**MONITORING**

Our 1080p model is perfect for critical work environment. Clearer images for detailed information is essential. Thanks to deep blacks and true pixel colors, the image quality of our 1080p HD plasma is superior to that of projection displays. They can also be installed in locations where bulky conventional direct-viewing displays can not.

**DIGITAL SIGNAGE**

With an industry-leading 4,096 gradation steps, Panasonic 1080p HD plasma models are ready to display the true beauty and accurate quality of objects. With the 1080i format input, gradation images of people can be shown in actual size to draw attention.

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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.
Industry-Leading HD 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* 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 reduces the amount of external light reflected. This technology helps improve the contrast when viewed in bright surroundings. Reflection is minimal, so images are clean and distraction-free.

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

Explore a Wider World of Video Applications

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

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

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

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

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.

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

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

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

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

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

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

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

Conventional

New/Real Black Creation

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Conventional

New/Real Black Creation
Dynamic Images Draw Attention and Provide Strong Appeal to Viewers

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

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

Portrait Zoom Function — Useful for Vertical Mounting (PF series only)
By dividing the content from a video source into three vertical segments and displaying one segment on a portrait-position plasma display, a desired section of an image can be displayed dynamically. When three plasma display units are combined in portrait orientation, the entire image can be displayed dynamically on an extra-large screen.

Useful Functions in Multi-Screen Systems

• **Power-On Delay Function**
  This function automatically shifts the power-on time slightly for each display unit in the system, so there’s less load on the power supply.
  Note: In the PH series, this function is operable only when the Multi Display Setup is turned on. The PS series is not equipped with this function.

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

• **Multi AI Control Function (PF series only)**
  By applying AI control to the brightness signal of the entire input signal using the same video processing as for a single-screen image, this new function achieves a uniform brightness level over the entire image.

• **Multi Display Function**
  This built-in image-enlarging function makes it easier to set up multi-screen systems with as many as 25 displays (5x5 configuration).
  A new function lets you enlarge the image up to 5x vertically and horizontally independently, making it easy to set up a multi-screen system with up to five displays arranged either vertically or horizontally. For example, expand the image horizontally to 5x and leave it unchanged vertically, and you can create a system with five units side-by-side.
  Note: Images of SXGA resolution or higher from a PC or RGB source may not enlarge correctly. PH series enlarges the image up to 4x horizontally and leaves it unchanged vertically.

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 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.

Vertical Mounting
Panasonic professional plasma displays can be positioned vertically to display portrait images, allowing them to serve as effective storefront signboards. There’s no need to install an optional fan kit.

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

Enhanced Screen Saver Functions
A variety of screen saver functions help lower the risk of uneven phosphor aging.

• White Bar Scroll: White bars move across the screen from left to right at regular intervals. Good for ordinary still-image displays.

• Screen Reversal: Displays images with the black and white reversed. Good for text displays.

• Side Panel Adjustment: Brightens the black bands on the sides of the screen when displaying images in the 4:3 format.

• Wobbling: Shifts the image’s position by several pixels at fixed time intervals or according to the detected screen condition.

• Peak Limit Mode: Lowers the peak brightness level (image contrast).

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.

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.

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 minimum effect on the main-screen image.

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

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

In the Picture-and-Picture display mode, the sub-screen picture can be displayed at a location where it has minimum effect on the main-screen image.

In the Picture-out-Picture display mode, the sub-screen picture can be displayed at a location where it has minimum effect on the main-screen image.

In the Single picture display mode, the sub-screen picture cannot be displayed.

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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.

Advantages of the Wireless Presentation Board

- 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.

- 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. The Area-Specific Transmission function to display any part of an image of a single PC image. * Sound is produced only when using a single, full-screen display of a single PC.

Wireless Presentation Board (Option)

4x Digital Zoom
This function lets you enlarge a portion of an image by up to four times normal size and display it in the full screen. Use this function to give your presentations greater impact.

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

Automatic Picture Positioning (PF series only)
This function automatically corrects the horizontal and vertical picture positions, stock 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.

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 reproduction across the entire HDTV-standard (ITU-R, BT709) color range, Panasonic 1080p HD plasma 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.

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.

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

- Auto Power Off: When you’re using a device connected to the multi-function slots, the display panel goes into standby mode after about 10 minutes if no sync signal is received.
- Power Save Mode: Reduces 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 Panaconlc 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.

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

Optional Terminal Boards

### Dual HDMI Terminal Board (mounts in slot 1 or 2)
- TY-FB10HMD

### HDMI Terminal Board (mounts in slot 1 or 2)
- TY-FB8HM

### DVI-D Terminal Board (mounts in slot 1 or 2)
- TY-FB9FDD (for PF series)
- TY-42TM6D (for PH series)

### In Through Terminal Board (mounts in slot 1 or 2)
- TY-FB9RT

### PC Input Terminal Board (mounts in slot 1 or 2)
- TY-42TM6P

### BNC Dual Video Terminal Board (mounts in slots 1 & 2)
- TY-FB9BD

### BNC Component Video Terminal Board (mounts in slot 1 or 2)
- TY-42TM6A

### BNC Composite Video Terminal Board (mounts in slot 1 or 2)
- TY-42TM6B

### Composite/Component Video Terminal Board (mounts in slots 1 & 2, or slots 2 & 3)
- TY-42TM6Y

### RCA Component Video Terminal Board (mounts in slot 1 or 2)
- TY-42TM6Z

### RCA Composite Video Terminal Board (mounts in slot 1 or 2)
- TY-42TM6V

### SDI/HD-SDI Terminal Board (mounts is slot 1 or 2)
- TY-FB9HD

### HD-SDI Terminal Board with Audio
- TY-FB10HD

### SDI Terminal Board
- TY-FB7SD

### Wireless Presentation Board (mounts is slots 1 & 2, or slots 2 & 3)
- TY-FB10WPU

### Standard-Equipped Terminals
You can mount optional terminal board in a vacant slot. Or, you can remove the standard terminal boards and mount optional boards.

### Optional AV Terminal Box
- TY-TB10AV

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### Additional Information

- **RGB Active Through Terminal Board**
  - 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.

- **DVI-D Terminal Board**
  - TY-FB9FDD (for PF series)
  - TY-42TM6D (for PH series)

- **Ir Through Terminal Board**
  - TY-FB9RT

- **PC Input Terminal Board**
  - TY-42TM6P

- **BNC Dual Video Terminal Board**
  - TY-FB9BD

- **BNC Component Video Terminal Board**
  - TY-42TM6A

- **BNC Composite Video Terminal Board**
  - TY-42TM6B

- **Composite/Component Video Terminal Board**
  - TY-42TM6Y

- **RCA Component Video Terminal Board**
  - TY-42TM6Z

- **RCA Composite Video Terminal Board**
  - TY-42TM6V

- **SDI/HD-SDI Terminal Board**
  - TY-FB9HD

- **HD-SDI Terminal Board with Audio**
  - TY-FB10HD

- **SDI Terminal Board**
  - TY-FB7SD

- **Wireless Presentation Board**
  - TY-FB10WPU

- **Optional AV Terminal Box**
  - TY-TB10AV

### Specifications

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- TY-42TM6V
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-TP856B, TY-TP845 or TY-TP855) 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)

<table>
<thead>
<tr>
<th>Input</th>
<th>Video: 1 input for extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
<td>1 each for video (RGB and video)</td>
</tr>
<tr>
<td>Misc.</td>
<td>1 each for audio and 1 for RS-232C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>1 each for monitor output (RGB, video, and audio)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 for extension output (2 division)</td>
</tr>
<tr>
<td></td>
<td>1 for extension output (2 division)</td>
</tr>
</tbody>
</table>

Power supply: Supplied from the plasma display

Standards:
- FCC Class A
- UL Listed

Applicable displays: Panasonic Plasma Displays

Input channel: 1 input system for extension

Output channel: 1 system (internal connector) for RGB or 1 system (external connector) for Video, 1 system for sound and 1 system for RS232C

Power consumption: Approx. 6 W

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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.

 Specifications (KE811CTW)

<table>
<thead>
<tr>
<th>Input</th>
<th>Video: 1 input for CAT5e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
<td>1 each for video (RGB and video)</td>
</tr>
<tr>
<td>Misc.</td>
<td>1 each for audio and 1 for RS-232C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>1 output for CAT5e</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 output for extension (2 division)</td>
</tr>
<tr>
<td></td>
<td>1 output for extension (2 division)</td>
</tr>
</tbody>
</table>

Power supply: AC 100 – 240 V, 50/60 hz

Standards:
- Divisible frame system for compact packaging
- High resolution
- High scan speed
- Divisible frame system for compact packaging

Portable design

TY-TPC60 Touch Pen also available.

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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.
- XGA signals can be sent up to 500 ft.

 Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>PLUG-VC251</th>
<th>PLUG-EC251</th>
<th>PLUG-EC600</th>
<th>PLUG-EC1000XPE</th>
<th>PLUG-EC600XPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>ULV Pentium Celeron 1 GHz</td>
<td>ULV Pentium</td>
<td>ULV Pentium</td>
<td>ULV Pentium</td>
<td>ULV Pentium</td>
</tr>
<tr>
<td>Memory</td>
<td>256 MB RAM (DDR SO-DIMM)</td>
<td>512 MB RAM (DDR SO-DIMM)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal HDD</td>
<td>40 GB HDD (2.5” HD)</td>
<td>40 GB HDD (2.5” HD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interfaces</td>
<td>1 x LAN, 2 x USB 2.0/1.1, 1 x Serial, 1 x Line In/Out, 1 x Mic In</td>
<td>1 x LAN, 2 x USB 2.0, 1 x Serial, 1 x Line In/Out, 1 x VGA Out</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions:
- 12.4” x 1.6” x 8.3” (315 x 40 x 211 mm) (including feet)
- 12.4” x 1.6” x 8.3” (315 x 40 x 211 mm) (not including feet)

Power supply: Supplied from the plasma display

Standards:
- UL Listed
- UL 60960-1
- CE Marked
- FCC Class A
- UL 60950-1
- CE Marked
- UL 60950-1
- CE Marked
- UL 60950-1
- CE Marked

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**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 Compact Flash Cards.
- Supports VSD output for additional display.

 Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>PLUG-EC251</th>
<th>PLUG-EC600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>ULV Pentium Celeron 1 GHz</td>
<td>ULV Pentium</td>
</tr>
<tr>
<td>Memory</td>
<td>256 MB RAM (DDR SO-DIMM)</td>
<td>512 MB RAM (DDR SO-DIMM)</td>
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<tr>
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<td>1 x LAN, 2 x USB 2.0/1.1, 1 x Serial, 1 x Line In/Out, 1 x Mic In</td>
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</tr>
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</table>

Dimensions:
- 12.4” x 1.6” x 8.3” (315 x 40 x 211 mm) (including feet)
- 12.4” x 1.6” x 8.3” (315 x 40 x 211 mm) (not including feet)

Power supply: Supplied from the plasma display

Standards:
- UL Listed
- UL 60960-1
- CE Marked
- FCC Class A
- UL 60950-1
- CE Marked
- UL 60950-1
- CE Marked
- UL 60950-1
- CE Marked

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**Touch Panel**

**TY-TP50P8-S** (for TH-50PF10UK/50PH10UKA)

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

You cannot use the TY-ST10K pedestal for these touch panels.

**TY-TP65P10S** (for TH-58PF10UKA)

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

You cannot use the TY-ST10K pedestal for these touch panels.

**TY-TP50P10S** (for TH-50PF10UK/50PH10UKA)

Touch Panel (CMOS Camera Detection System)

**TY-TP42P8-S** (for TH-42PF10UK)

- 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.

**TY-TP42P10S** (for TH-42PH10UKA)

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

You cannot use the TY-ST10K pedestal for these touch panels.

**TY-TP42P8-S** (for TH-42PF10UK)

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

You cannot use the TY-ST10K pedestal for these touch panels.

---

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

You cannot use the TY-ST10K pedestal for these touch panels.
Endless Array of Applications

**DIGITAL SIGNAGE**
- Shopping Mall, Budapest, Hungary
- Grand Century, Hong Kong, China
- Rica Maritim Hotel, Norway
  - www.visithaugalandet.no
- Golden Harvest Hollywood, Hong Kong, China

**AMUSEMENT**
- Planet Hollywood Resort, Las Vegas, USA
- Dolphin Stadium, Miami, 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
Specifications

**SAFETY STANDARDS**

- **OPERATING ENVIRONMENT**
  - **Humidity**: 20% — 80% (Non condensation)
  - **Temperature**: 32°F — 104°F (0°C — 40°C)
  - **Altitude**: 0 — 7,800 feet (0 — 2,400 m)
  - **Weight (approx.)**: TH-103PF10UK: 485.0 lbs. (220.0 kg), TH-65PF10UK: 313.7 lbs. (142.0 kg), TH-50PF10UK: 158.7 lbs. (72.0 kg)

**EMI REGULATIONS**

- **Audio Output**: Line Out (L/R)
  - TH-103PF10UK: 20 W [10 W + 10 W] (10 % THD)
  - TH-65PF10UK: 16 W [8 W + 8 W] (10 % THD)

**SOUND**

- **Stand-by condition**: Save Off: 1.0 W, Save On: 0.9 W
  - TH-103PF10UK: Save Off: 1.0 W, Save On: 0.9 W
  - TH-65PF10UK: Save Off: 0.6 W, Save On: 0.4 W

- **Power consumption**: 1,550 W

**ELECTRICAL**

- **Fixed Terminals**
  - **SERIAL D-sub 9-pin x 1**, External control, RS-232C compatible
  - **AUDIO IN M3 jack x 1**
  - **PC IN Mini D-sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA DDC 2B)**

**INPUT/OUTPUT**

- **Video Signal Compatibility**: 525 (480)/60i, 60p; 625 (575)/50i, 50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50i, 24p, 24sF, 25p, 30p, 60p, 50p; 1250 (1080)/50i

**SIGNAL COMPATIBILITY**

- **Supported Video Standards**: NTSC, PAL, PAL 60, SECAM, Modified NTSC

**MECHANICAL**

- **Resolution (H x V)**: 1,920 x 1,080 pixels

**DISPLAY**

- **Screen Size (Diagonal)**: TH-103PF10UK: 102.5-inch, TH-65PF10UK: 64.8-inch, TH-50PF10UK: 49.9-inch

**HD Models**

- **TH-58PH10UKA**
  - 58-inch (148 cm) diagonal
  - High Definition Plasma Display
  - TH-58PH10UKA: 1080p High Definition Plasma Display

- **TH-50PH10UKA**
  - 50-inch (127 cm) diagonal
  - TH-50PH10UKA: 1080p High Definition Plasma Display

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

**Hospitality Plasma Models Also Available**

- **TH-42PR10U**
  - 42-inch HD model

- **TH-37PR10U**
  - 37-inch HD model
Options

Wall-hanging bracket
TY-WK103PV9
TY-WK65PV7

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

Wall-hanging bracket (drawer type)
TY-WK42DR1

Pedestal
TY-ST103PF9
TY-ST58-K
TY-ST07-K

Ceiling-hanging bracket
TY-CF42PS7

Mobile stand
TY-ST58PF10

Anti-glare filter
TY-AR58P10W
TY-AR65P9W
TY-AR42P9W
TY-AR50P9W

Detachable stereo speakers
TY-SP65P10WK (for TH-50PF10UKA)
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: 5.5 lbs. (2.5 kg)/each

TY-SP50P8WK (for TH-50PF10UKA)
Configuration: 2-way, 3-speaker
Dimensions: (W x H x D): 4.2” x 28.6” x 3.5” (107 x 724 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

TY-SP42P6WK (for TH-42PH10UKA)
Configuration: 2-way, 3-speaker
Dimensions: (W x H x D): 4.2” x 21.3” x 3.5” (107 x 550 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

Compatible Models at a Glance

Unit: inch

Weight: 4.4 lbs. (2.0 kg)/each

Configuration: 2-way, 3-speaker
Dimensions: (W x H x D): 4.2” x 21.3” x 3.5” (107 x 550 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

Configuration: 2-way, 3-speaker
Dimensions: (W x H x D): 4.2” x 28.6” x 3.5” (107 x 724 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

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: 5.5 lbs. (2.5 kg)/each

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: 4.9 lbs. (2.2 kg)/each