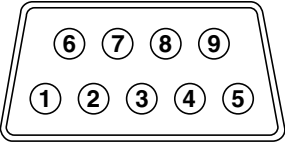


Preset Input Signals

| Signal name | | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Standard- Equipped Boards | Optional Board | | | | | | | | |
|----------------------|-------------------|-------------------------------|----------------------------|------------------------------|----------------|-------------|-------------|-----------|-----------|-----------|----------|----------|----------|
| | | | | | TY-42TM6Y | TY-42TM6B/V | TY-42TM6A/Z | TY-42TM6P | TY-42TM6D | TY-42TM6G | TY-FB7SD | TY-FB7HD | TY-FB7HM |
| Composite | NTSC | 15.73 | 59.94 | Y | Y | Y | | | | | | | |
| | PAL | 15.63 | 50.00 | Y | Y | Y | | | | | | | |
| | PAL60 | 15.73 | 59.94 | Y | Y | Y | | | | | | | |
| | SECAM | 15.63 | 50.00 | Y | Y | Y | | | | | | | |
| | Modified NTSC | 15.73 | 59.94 | Y | Y | Y | | | | | | | |
| Component | 525 (480)/60i | 15.73 | 59.94 | Y | Y | | Y | Y | | Y | Y | Y | |
| | 525 (480)/60p | 31.47 | 59.94 | Y | Y | | Y | Y | Y | Y | | | Y |
| | 625 (575)/50i | 15.63 | 50.00 | Y | Y | | Y | Y | | Y | Y | Y | |
| | 625 (575)/50p | 31.25 | 50.00 | Y | Y | | Y | Y | Y | Y | | | Y |
| | 750 (720)/60p | 45.00 | 60.00 | Y | Y | | Y | Y | Y | Y | | Y | Y |
| | 750 (720)/50p | 37.50 | 50.00 | Y | Y | | Y | Y | | Y | | | |
| | 1125 (1080)/60i | 33.75 | 60.00 | Y | Y | | Y | Y | Y | Y | | Y | Y |
| | 1125 (1080)/50i | 28.13 | 50.00 | Y | Y | | Y | Y | | Y | | Y | |
| | 1125 (1080)/24sF | 27.00 | 47.92 | Y | Y | | Y | Y | | Y | | Y | |
| | 1125 (1080)/30p | 33.75 | 30.00 | Y | Y | | Y | Y | | Y | | Y | |
| | 1125 (1080)/25p | 28.13 | 25.00 | Y | Y | | Y | Y | | Y | | Y | |
| | 1125 (1080)/24p | 27.00 | 24.00 | Y | Y | | Y | Y | | Y | | Y | |
| | 1250 (1080)/50i | 31.25 | 50.00 | Y | Y | | Y | Y | | Y | | | |
| | 640 x 400 @70Hz | 31.46 | 70.07 | Y | Y | | Y | Y | | Y | | | |
| RGB | 640 x 480 @60Hz | 31.47 | 59.94 | Y | Y | | Y | Y | Y | Y | | | Y |
| | 640 x 480 @72Hz | 37.86 | 72.81 | Y | Y | | Y | Y | | Y | | | |
| | 640 x 480 @75Hz | 37.50 | 75.00 | Y | Y | | Y | Y | | Y | | | |
| | 640 x 480 @85Hz | 43.27 | 85.01 | Y | Y | | Y | Y | | Y | | | |
| | 852 x 480 @60Hz | 31.47 | 59.94 | Y | Y | | Y | Y | Y | Y | | | |
| | 800 x 600 @56Hz | 35.16 | 56.25 | Y | Y | | Y | Y | | Y | | | |
| | 800 x 600 @60Hz | 37.88 | 60.32 | Y | Y | | Y | Y | Y | Y | | | |
| | 800 x 600 @72Hz | 48.08 | 72.19 | Y | Y | | Y | Y | | Y | | | |
| | 800 x 600 @75Hz | 46.88 | 75.00 | Y | Y | | Y | Y | | Y | | | |
| | 800 x 600 @85Hz | 53.67 | 85.06 | Y | Y | | Y | Y | | Y | | | |
| | 1024 x 768 @60Hz | 48.36 | 60.00 | Y | Y | | Y | Y | Y | Y | | | |
| | 1024 x 768 @70Hz | 56.48 | 70.07 | Y | Y | | Y | Y | | Y | | | |
| | 1024 x 768 @75Hz | 60.02 | 75.03 | Y | Y | | Y | Y | | Y | | | |
| | 1024 x 768 @85Hz | 68.68 | 85.00 | Y | Y | | Y | Y | | Y | | | |
| | 1152 x 864 @75Hz | 67.50 | 75.00 | Y | Y | | Y | Y | | Y | | | |
| | 1280 x 960 @60Hz | 60.00 | 60.00 | Y | Y | | Y | Y | | Y | | | |
| | 1280 x 960 @85Hz | 85.94 | 85.00 | Y | Y | | Y | Y | | Y | | | |
| | 1280 x 1024 @60Hz | 63.98 | 60.02 | Y | Y | | Y | Y | | Y | | | |
| | 1280 x 1024 @75Hz | 79.98 | 75.03 | Y | Y | | Y | Y | | Y | | | |
| | 1280 x 1024 @85Hz | 91.15 | 85.02 | Y | Y | | Y | Y | | Y | | | |
| 1600 x 1200 @60Hz | 75.00 | 60.00 | Y | Y | | Y | Y | | Y | | | | |
| 1600 x 1200 @65Hz | 81.25 | 65.00 | Y | Y | | Y | Y | | Y | | | | |
| 1066 x 600 @60Hz | 37.88 | 60.32 | Y | Y | | Y | Y | Y | Y | | | | |
| 1366 x 768 @60Hz | 48.36 | 60.00 | Y | Y | | Y | Y | Y | Y | | | | |
| Mac 13" (640 x 480) | 35.00 | 66.67 | Y | Y | | Y | Y | | Y | | | | |
| Mac 16" (832 x 624) | 49.72 | 74.54 | Y | Y | | Y | Y | | Y | | | | |
| Mac 21" (1152 x 870) | 68.68 | 75.06 | Y | Y | | Y | Y | | Y | | | | |

* 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 (Female)



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 | |
| 9 | RI | NC |

Transmitting Conditions

| Signal Level | Complied with RS232C |
|--------------------|--------------------------------------|
| Synchronous System | Start/Stop Synchronous Communication |
| Baud Rate | 9600 bps |
| Parity | Nil |
| Character Length | 8 bits |
| Stop Bit | 1 bit |
| X Parameter | Nil |

Supplied Remote Control

(Comes with every Panasonic Plasma Display model.)

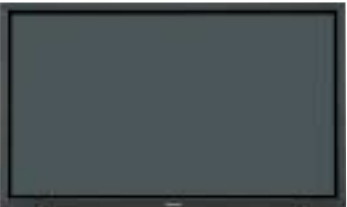


Remote Control Functions

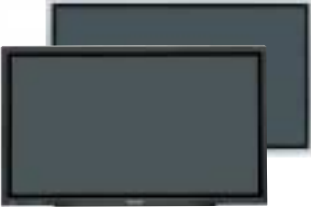
- Stand-by (On/Off)
- Input Selection
- Status
- Surround On/Off
- Sound Mute On/Off
- Volume Up/Down
- Normalization (N)
- Exit (R)
- Position/Action
- Digital Zoom
- Picture
- Sound
- Set Up
- Picture Position/Size
- Aspect
- PC Mode Selection
- Off Timer

Panasonic
ideas for life

Plasma Display



TH-65PHD7WK
65-inch (165 cm) diagonal
High-Definiiton Plasma Display



TH-50PHD7WK/WS
50-inch (127 cm) diagonal
High-Definiiton Plasma Display



TH-42PHD7WK/WS
42-inch (106 cm) diagonal
High-Definiiton Plasma Display



TH-42PWD7WK/WS
42-inch (106 cm) diagonal
Wide Plasma Display

Panasonic

Have assembly and installation done by a qualified electrician.
Simulated pictures on screen.
Specifications are subject to change without notice. Printed in Japan

Above and Beyond: The Panasonic Commitment to Customer Satisfaction

The Image Quality and Versatility You Need Today, the System Expandability You'll Want Tomorrow

New 65-inch plasma model for use in larger-than-conventional displays

Demand is rising for extra-large display screens, and Panasonic has the solution. Our new lineup of displays for professional applications includes a 65-inch plasma model that offers the superior image quality, extensive functions, and extendibility that make Panasonic an industry leader. The new unit suits any application calling for a super-size display. Use it in a directory in a building lobby, an information board for an airport, train station or other large public facility, or a monitor at event sites.

The ultimate in image quality — Expressivity that goes above and beyond previous limits

A host of Panasonic imaging technologies combine to achieve both the industry's highest gradation and outstanding 4,000:1* contrast. The accuracy and detail our displays provide cannot be adequately expressed by specifications alone. They provide pictures with the kind of breathtaking beauty that stirs emotion.

* SD models

Functions and expandability to meet a variety of applications

Dual Picture, Digital Zoom, multi-screen capability and other advanced functions enhance the usability of our displays. Our popular Multi-Function Slots are also provided. And we've expanded our lineup of optional terminal boards, making our displays solutions to an even wider range of customer needs.



Connection with analogue equipment



Lets you connect an S-VHS VCR or video camera. This board has a video output terminal too, so you can also connect a sub-monitor device for image monitoring.

BNC Composite Video Terminal Board
TY-42TM6B



Connection with digital equipment



Allows full-digital transmission of video signals, with no degradation. Allows reproduction of high-quality images from a DVD player, PC or other compatible digital equipment.

RGB (Digital) Terminal Board (DVI-D with
HDCP) TY-42TM6D



Connection with PC



Lets you connect multiple PCs. Use it in conference rooms, class rooms, lecture halls and other sites where PCs are often used.

PC Input Terminal Board TY-42TM6P



Connection with broadcast equipment



Compatible with the SDI or HD-SDI (for HDTV) systems used by broadcasting stations. This board lets the plasma display reproduce crisp, clear images in a studio or control room.

SDI Terminal Board TY-FB7SD
HD-SDI Terminal Board TY-FB7HD



Fully digital connection



Enables the transfer of high-definition video and audio via a single cable. When the HDMI-compatible DVD video player is connected to this board, DVD images can be upconverted to 750p or 1125i for output.

HDMI Terminal Board TY-FB7HM



Remote video distribution

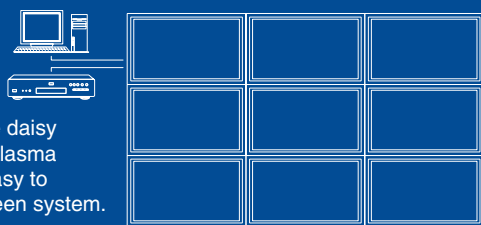


For distant distribution of video images. Images can be sent to the plasma display in real time from distant equipment connected to the transmitter.

Twisted-Pair-Cable Receiver Board (Video, Audio and PDP Control) KE0101CRBW



Multi-screen system configuration



This board allows the daisy chaining of multiple plasma displays, making it easy to configure a multi-screen system.

RGB Active-Through Terminal Board
TY-42TM6G

The Industry's Best Overall Picture Quality

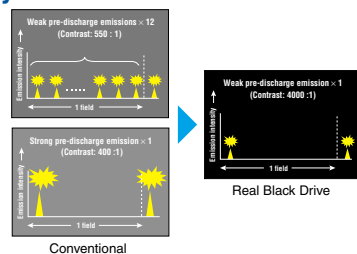
Technologies for Increasing Contrast and Gradation

Stunning 4000:1 Dark-Area Contrast* —

New Real Black Drive System

By reducing the pre-discharge emission when reproducing black, the New Real Black Drive System provides deeper, richer blacks and a stunning 4000:1 contrast*. The result is dramatically enhanced image clarity and realism.

* For the SD models.



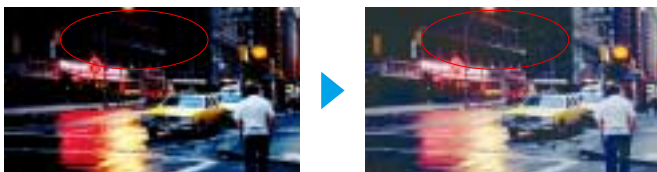
Even Higher Bright-Area Contrast — Deep Black Filter

The front protective glass of the plasma display panel incorporates a Deep Black Filter that suppresses light transmittance and slashes the amount of external light reflected. This helps our displays achieve the industry's highest level of contrast when viewed in bright surroundings.

1,536 Shades of Gradation in Dark Scenes —

New Super Real Gamma System

In scenes with low brightness levels, the New Super Real Gamma System reproduces gradation in steps equivalent to 1,536 shades. In other words, this original, non-linear signal processing system provides superior performance at brightness levels where the human eye sees best. As a result, it adds subtle nuances to darker scenes and gives images greater depth.



Technologies for Increasing Brightness

10% Brighter Images —

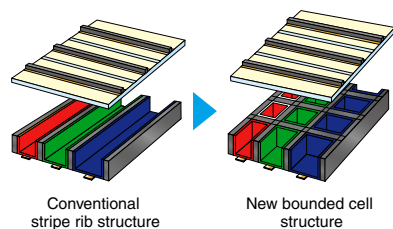
New MACH Panel with Bounded Cell Structure

The New MACH (Multi-facet Asymmetrical Configuration Hyper-pixel) Panel features a bounded cell structure in which wall-like ribs are used to wrap each individual cell. By increasing the area in which the phosphor can be applied, this

dramatically improves both light-emitting efficiency and intensity. Furthermore, improvements to the drive circuit and plasma gas inside the panel have enabled Panasonic to boost peak brightness while actually lowering power consumption compared with our previous models. As a result, peak brightness is boosted by 10% compared with a previous Panasonic model.

The new panel structure boasts a long service life of 60,000 hours*. A newly developed phosphor also raises the plasma displays' resistance to static-image screen burning to the same level as CRT displays.

* The time until panel brightness is reduced to half its initial level. The service life given above is intended as a guideline when displaying standard moving images. However, this time varies depending on the content of the images displayed and the usage environment.



High-Contrast Images with a High S/N Ratio — Adaptive AGC

Our previous automatic gain control (AGC) detected the brightness level of the entire image, then boosted it as necessary. This had a drawback, in that it tended to increase noise and black-out parts of the image where the video signal did not require boosting. Adaptive AGC raises contrast while suppressing noise by detecting and boosting only the image edges.

Note: The default setting for the Adaptive AGC is OFF.

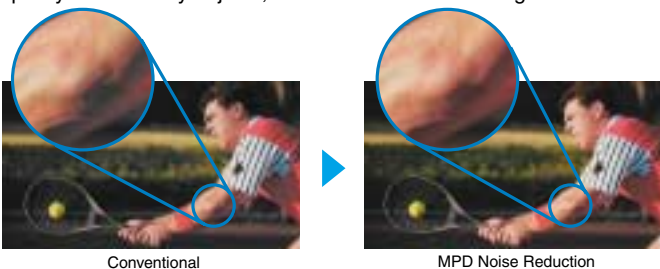


Technologies for Improving Picture Clarity and Colours

Cleaner Moving Images —

High-Precision MPD Noise Reduction

This newly developed technology dramatically reduces MPD (Motion Picture Disturbance) noise to deliver crisp, clean moving images. Using a Panasonic original algorithm, it detects motion patterns that tend to generate noise and makes the necessary adjustments to maximize image quality. And it does this without diminishing the quality of stationary objects, such as those in the background.



Vibrant Colours and Natural Skin Tones — 3D Colour Management System

3D Colour Management System is a new correction process that works in a three-dimensional colour matrix (hue, saturation, and brightness) rather than the conventional two-dimensional colour difference plane. By correcting hue and brightness independently and providing finer control, this process delivers vibrant colours and natural skin tones.

Note: The default setting for the 3D Colour Management System is OFF.

Technologies for Enhancing Resolution and Sharpness

Better Vertical Resolution — Active I/P Conversion

The Active I/P (Interlace/Progressive) Conversion system detects slow movements more precisely by increasing the range for detecting moving-picture and still-picture pixels. This reduces I/P conversion noise that often occurs when reproducing tiny movements, thereby producing crisper images while raising the vertical resolution in interlaced images.



Functions that Improve Usability

Two Different Images on One Screen — 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.



Up to 4x Enlargement of Image Zones — 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.

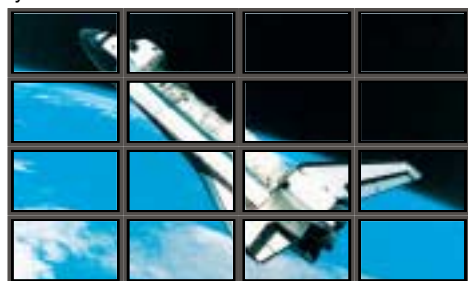
* Digital Zoom does not work in Dual Picture mode. Images of SXGA resolution or higher from a PC or RGB source may not enlarge correctly. Some degradation occurs when images are enlarged.



Huge Display Equivalent to 260-inches — Multi-Screen Applications

The built-in image-enlarging function makes it easier to set up multi-screen displays featuring four (2 x 2), nine (3 x 3), or sixteen (4 x 4) units. For example, with sixteen 65-inch displays you can configure a huge display equivalent to 260 inches by simply connecting ordinary cables. That's the kind of display that catches eyes at shopping malls and event sites. This function works with component video signals, so you can use enlarged images from DVD and other high-quality sources in your display.

* The image-enlarging function operates on video signal and on PC/RGB signal up to XGA mode. However, a normal display may not be obtained with some PC/RGB signals.



Note: The ambient temperature varies depending on the installation location. Provide sufficient air conditioning for surrounding conditions.

Enhanced Screen Saver Functions

A variety of screen saver functions help minimise the risk of uneven phosphor aging. You can also use the timer to set the screen saver operating cycles, operating time, and start and stop times. This lets you make settings that match your application.

• **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.

• **Peak Limit Mode:** Lowers the peak brightness level (image contrast) by 30%.

Energy-Saving Functions

A broad range of environment-friendly functions help minimise 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.

• **Auto Power Off**

When you're using a device connected to the multi-function slots, the display panel goes into standby mode after about 10 minutes if no sync signal is received.

• **Power Save Mode**

Reduces the display's brightness.

• **Standby Power Save Mode**

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

Front Button Control

The five buttons on the front bezel give you instant access to all major functions via an easy-to-read on-screen menu display.



Fan-Less Quiet Operation

Our "silence engineering" has eliminated the need for a fan — and fan noise — giving you the kind of quiet operation that makes for a more pleasant viewing experience. (TH-65PHD7 and TH-50PHD7 feature a noise-suppressing silence design.)

Vertical Mounting

Panasonic plasma display can be positioned vertically to display portrait images and can serve as an effective storefront electronic signboard.

• **Optional Fan Kit for Vertical Mounting Applications**

TY-UPK50HV7 (for TH-50PHD7)

TY-UPK42HV7 (for TH-42PHD7)

* Operating temperature: 0 to 35°C



Multi-Function Slots Accommodate a Host of Uses

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 analogue capabilities, as necessary, and to customise your system for specific needs.

- **Multi-Function Slots on 65", 50" and 42" Models**
Panasonic plasma display models come equipped with the standard terminal boards mounted in slots 2 and 3. You can mount an optional terminal board in slot 1. Or, you can remove the standard terminal boards and mount up to three optional boards.



Optional Terminal Boards

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

This board sends the signal that's input via the PC1 IN terminal to a second plasma display connected to the PC1 OUT terminal. Up to nine plasma displays can be connected together. This connectability adds convenience when configuring a multi-screen system.



TY-42TM6G

* The characters in red are added for explanation.

RGB (Digital) Terminal Board (DVI-D w/HDCP) (mounts in slot 1 or 2)

Lets you connect a PC that outputs digital RGB signals (DVI compliant). Adding this board permits you to display images with the equivalent of 4,096 gradation levels.



TY-42TM6D

PC Input Terminal Board (mounts in any slot)

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



TY-42TM6P

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

Lets you connect a wide range of input sources, from composite video, S-video, and component video signals to RGB signals.

TY-42TM6Y



Component Video Terminal Board (mounts in any slot)

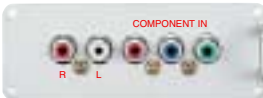
Lets you connect devices that output component video signals, such as DVD players or set-top boxes, or devices that output RGB signals.

* Accepts only RGB signals with "SYNC ON G".

BNC Component Video Terminal Board TY-42TM6A



RCA Component Video Terminal Board TY-42TM6Z



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

Lets you connect a VCR, video camera or other video equipment. (Supports through-out configurations.)

BNC Composite Video Terminal Board TY-42TM6B



RCA Composite Video Terminal Board TY-42TM6V



SDI/HD-SDI Terminal Board

- Support the same serial digital interface (SDI) that is used in broadcasting.
- Provide fully digital transmission for clear, clean image displays.
- The TY-FB7HD supports HDTV.



SDI Terminal Board

TY-FB7SD (mounts in slot 1 or 2)

* Not compatible with the 6-series plasma display models.



HD-SDI Terminal Board

TY-FB7HD (mounts in slot 1 or 2)

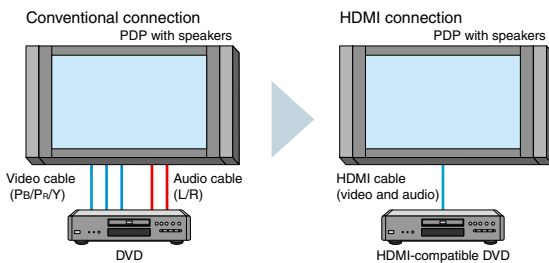
* Not compatible with the 6-series plasma display models.

Specifications

| | TY-FB7SD | TY-FB7HD |
|-------------------------|-----------------------|--|
| Standards compliance | SMPT259M-C | SMPT292M, SMPT259M-C |
| Compatible video format | 525/59.94i 625/50i | 525/59.94i, 625/50i, 750/60p, 59.94p, 1125/30p, 1125/24p, 1125/60i, 59.94i, 1125/50i, 1125/24sf, 23.98sf |

HDMI Terminal Board

- Supports HDMI, the next-generation digital broadcast standard.
- Enables fully digital connection of signals from HDMI-compatible DVD players and other digital equipment for blur-free images with no colour bleeding.
- Transmits both video and audio signals over a single cable.



TY-FB7HM (mounts in slot 1 or 2)

* Not compatible with the 6-series plasma display models.

Specifications

| | |
|-------------------------|--|
| Standards compliance | HDMI ver.1.1 |
| Compatible video format | 525/60p, 625/50p, 750/60p, 1125/60i, VGA60 |

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

Plasma System Solutions

Digital Signage/Narrowcasting System Complete with Touch Panel

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

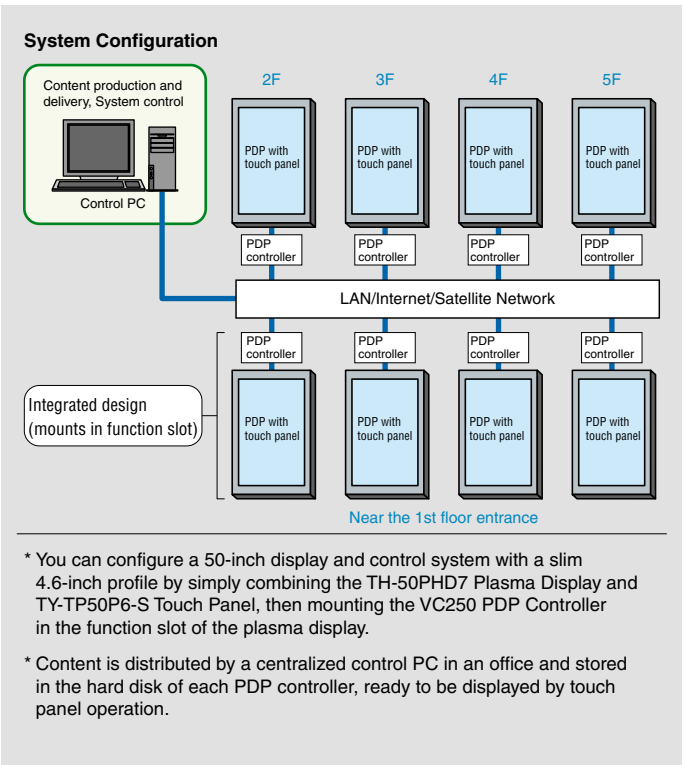
Each Controller fits inside the Plasma and has a unique IP address, allowing content to be streamed to the Plasma on any LAN, modem, Internet or Satellite network. It speeds up the process of updating information, and any combination of Plasmas can be controlled locally or from a central location.

• Space-Saving and Easy to install

We have slimmed down the display system by incorporating the optional PDP Controller (see page 17) right inside the plasma display. It requires only two connections, power and network.

• Universal System Design

Since the entire system is configured in a Windows environment, the Controller is compatible with a wide variety of off-the-shelf software applications.



Information System Using the Twisted-Pair-Cable Receiver Board

Displaying up-to-date information such as transportation schedule changes, stock market conditions, and countless other possible subjects.

• Real-Time Information Bulletins

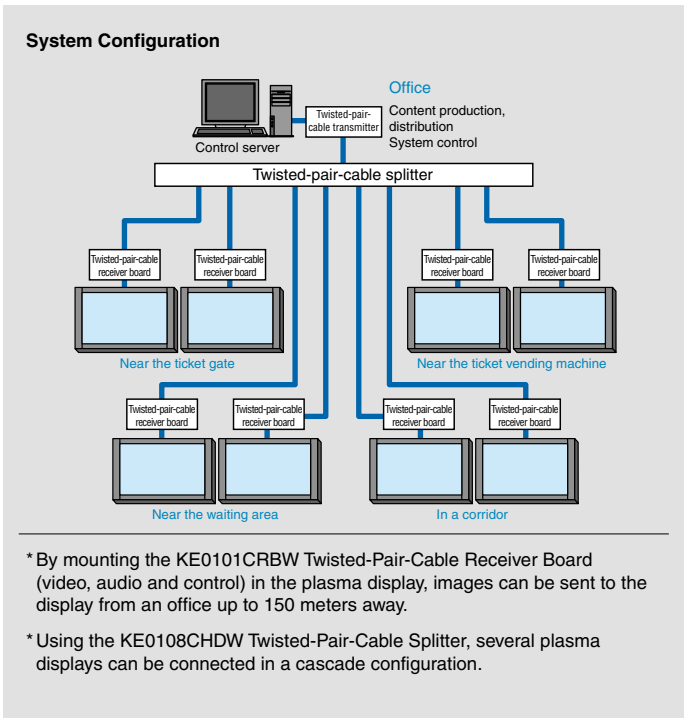
The use of the CAT5e twisted-pair cable allows content to be sent from the server in real-time, for instant response to events such as sudden changes in transportation schedules or accident information as it becomes available.

• Long-Distance Transmission of High-Quality Video Signals

High-resolution XGA images, sound and RS232C control signal are transmitted approximately 150 m over a single cable. PDP control signals can also be sent over the same cable to allow remote operation of power ON/OFF and other functions.

• Higher Signal Quality, Lower Costs, and Easier Installation

Thin, lightweight CAT5e twisted-pair cables do a better job of preventing signal degradation than coaxial cables. They also reduce costs and shorten the time needed for installation.



HD-SDI/SD-SDI System for Broadcast Use

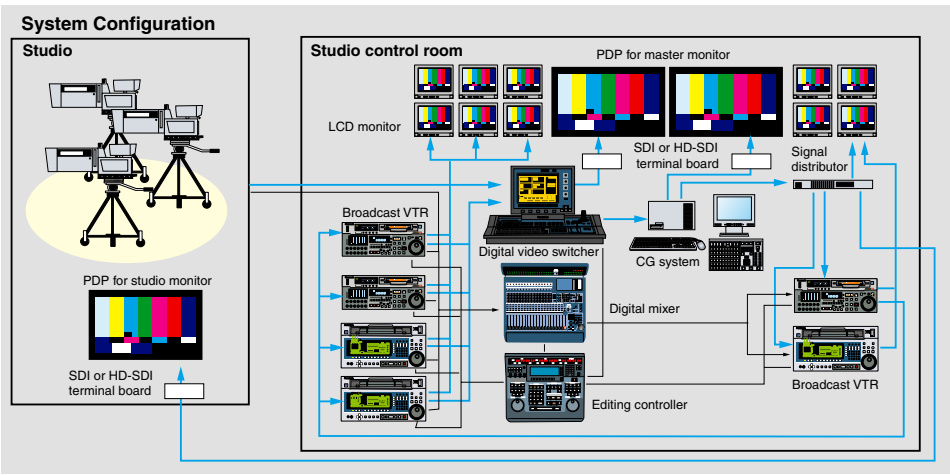
Displays crisp, clear images in a studio or control room.

• Adapts Easily to HD-SDI/SD-SDI Systems

The PDP adapts easily to HD-SDI and SD-SDI, the digital interfaces used in broadcasting and video production. Simply plug the SDI or HD-SDI terminal board into the function slot.

• Larger Screen with Wider Viewing Angle

Large PDP screens range from 42 to 50 inches — a big advantage over the maximum 32-inch screen available with conventional HD-CRT monitor displays for broadcast use. PDP screens also offer a wider viewing angle and easier, more comfortable monitoring.



Multi-Screen System Using RGB Active Through Terminal Board

Eye-catching huge display system at shopping malls and event sites

• Easy-to-Configure Multi-Screen System at a Low Cost

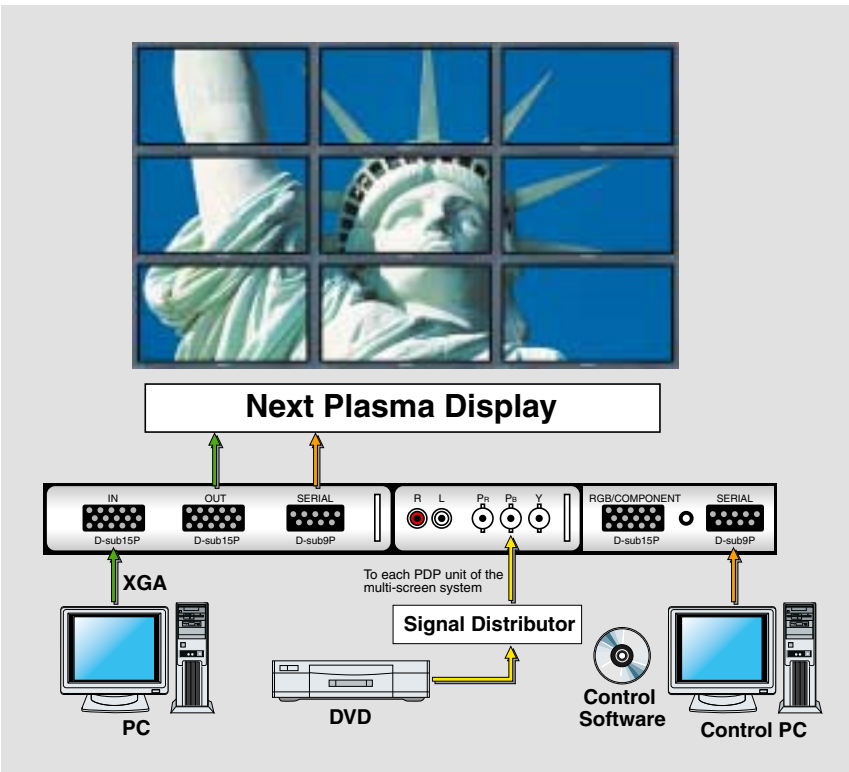
This system shows DVD video and PC data on a giant 9-screen (3 x 3) display. This system, which requires no image enlargement device, makes it possible to have a multi-screen system at a low cost.

• Easy-to-See Information

The system displays enlarged XGA images with excellent quality.

• Various Display Patterns and Powerful Impact

A "control PC" connected through a serial interface lets you switch the input sources and control various display patterns.



An Unlimited Range of Professional Applications

In-Store Display



TESCO, London, UK



Education



KONAMI SCHOOL, Tokyo, Japan



School, Addis Ababa, Ethiopia

Information



ANA HOTEL TOKYO, Tokyo, Japan



Cosmos Bank, Taipei, Taiwan



SOGO Department Store, HongKong, China



Amusement



Les Mills Gym, Dunedin, New Zealand



Smooths, Los Angeles, USA

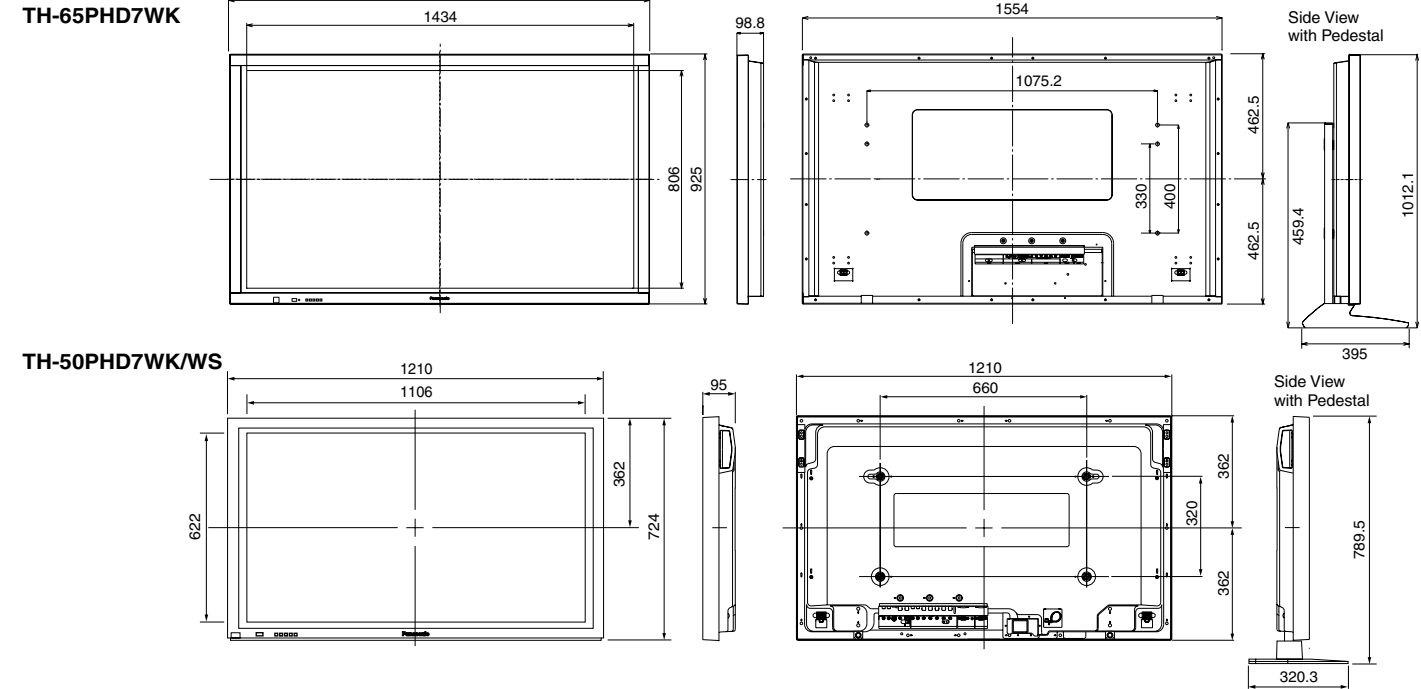
High Definition Models



Specifications

| | TH-65PHD7WK | TH-50PHD7WK/WS | TH-42PHD7WK/WS |
|-------------------------|--|----------------------------------|--------------------------------|
| DISPLAY | | | |
| Screen Size (Effective) | Diagonal 65" (1,645 mm) W x H 1,434 x 806 mm | 50" (1,269 mm) 1,106 x 622 mm | 42" (1,056 mm) 920 x 518 mm |
| Screen Aspect | 16 : 9 Wide | 16 : 9 Wide | 16 : 9 Wide |
| Number of Pixels | 1,049,088 (1366 x 768) | | 786,432 (1024 x 768) |
| Pixel Pitch (H x V) | 1.05 x 1.05 mm | 0.81 x 0.81 mm | 0.90 x 0.675 mm |
| Displayable Colours | 3,620 million colours | 3,620 million colours | 3,620 million colours |
| Contrast Ratio | 3000 : 1 | 3000 : 1 | 3000 : 1 |
| Viewing Angle | Horizontal: More than 160°; Vertical: More than 160° | | |
| Colour System | NTSC/PAL/SECAM/PAL 60Hz/M-NTSC | | |
| Audio Output | 20 W (10 W x 2) | 16 W (8 W x 2) | 16 W (8 W x 2) |
| On-Screen Display | US English/UK English/Spanish/French/German/Italian/Chinese/Japanese | | |
| Screen Coating | AR (Anti-Reflection) Coating | | |
| GENERAL | | | |
| Power Supply | AC 220 - 240 V, 50/60Hz | AC 220 - 240 V, 50/60Hz | AC 220 - 240 V, 50/60Hz |
| Power Consumption | 635 W | 435 W | 315 W |
| Stand-by | Save On: 1.2 W, Off: 1.5 W | Save On: 0.7 W, Off: 1 W | Save On: 0.7 W, Off: 1 W |
| Dimensions (W x H x D) | 1554 x 925 x 99 mm | 1210 x 724 x 95 mm | 1020 x 610 x 89 mm |
| Weight | 81.5 kg | 43.0 kg | 30.0 kg |
| Operating Temperature | 0°C — 40°C | | |
| Operating Humidity | 20% — 80% (Non condensation) | | |
| EMC | EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3 | | |
| Safety Standards | BEAB, CE, EN60065 (IEC65) | | |

Dimensions (Unit: mm)



Standard Definition Models

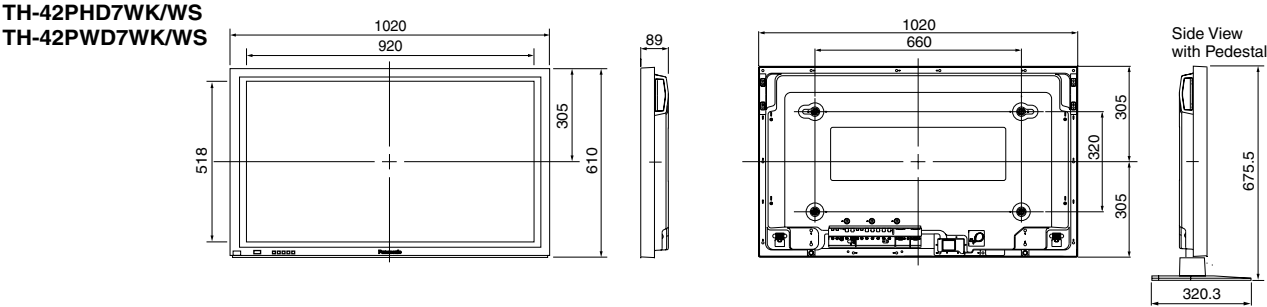


Specifications

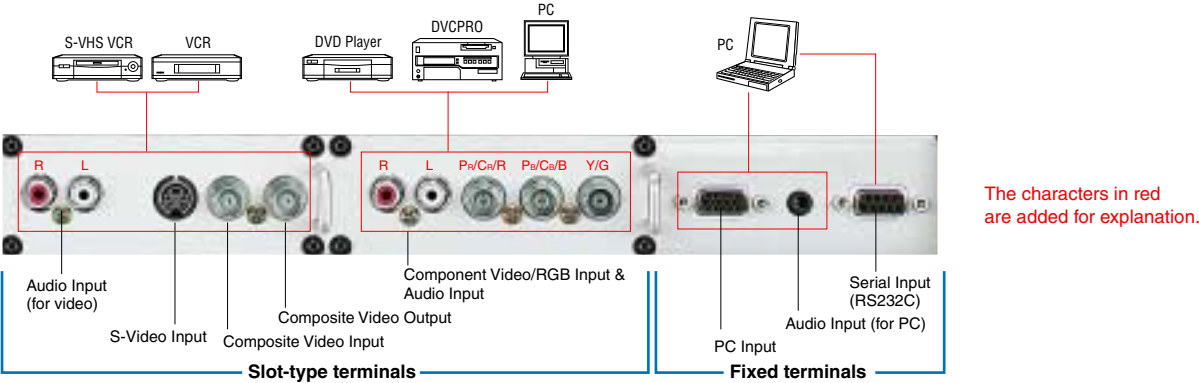
| | TH-42PWD7WK/WS |
|-------------------------|--|
| DISPLAY | |
| Screen Size (Effective) | Diagonal 42" (1,056 mm) W x H 920 x 518 mm |
| Screen Aspect | 16 : 9 Wide |
| Number of Pixels | 408,960 (852 x 480) pixels |
| Pixel Pitch (H x V) | 1.08 x 1.08 mm |
| Displayable Colours | 3,620 million colours |
| Contrast Ratio | 4000 : 1 |
| Viewing Angle | Horizontal: More than 160° ; Vertical: More than 160° |
| Colour System | NTSC/PAL/SECAM/PAL 60Hz/M-NTSC |
| Audio Output | 16 W (8 W x 2) |
| On-Screen Display | US English/UK English/Spanish/French/German/Italian/Chinese/Japanese |
| Screen Coating | AR (Anti-Reflection) Coating |
| GENERAL | |
| Power Supply | AC 220 - 240 V, 50/60Hz |
| Power Consumption | 250 W |
| Stand-by | Save On: 0.7 W, Off: 1 W |
| Dimensions (W x H x D) | 1020 x 610 x 89 mm |
| Weight | 29.0 kg |
| Operating Temperature | 0°C — 40°C |
| Operating Humidity | 20% — 80% (Non condensation) |
| EMC | EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3 |
| Safety Standards | BEAB, CE, EN60065 (IEC65) |

| | TH-42PWD7WK/WS |
|-----------------------------------|---|
| TERMINALS | |
| Composite Video Input | BNC coaxial x 1, 1.0 Vp-p (75 ohms or high impedance) |
| Composite Video Output | BNC coaxial x 1, 1.0 Vp-p (75 ohms or high impedance) |
| S-Video Input | S terminal x 1, Y: 1 Vp-p (75 ohms), C: 0.286 Vp-p (75 ohms) |
| Audio Input (for Video) | RCA phono type connectors (L, R) (1 set) |
| PC Input (RGB/Component) | Mini D-sub 15-pin x 1 (VGA display & SVGA, XGA, SXGA, UXGA compressed display) fH: 15 — 110 kHz; fV: 48 — 120 Hz |
| Audio Input (for PC) | M3 stereo plug |
| Component/R,G,B Input | BNC coaxial x 3 (Y, Pb, Pr or R, G, B [SYNC ON G]) Y/G: 1.0 Vp-p/composite (75 ohms); 0.7 Vp-p/non-composite (75 ohms) Pb/B, Pr/R: 0.7 Vp-p (75 ohms) |
| Audio Input (for Component/R,G,B) | RCA phono type connectors (L, R) (1 set) |
| Serial (RS232C) | D-Sub 9-pin (Female) |

Dimensions (Unit: mm)

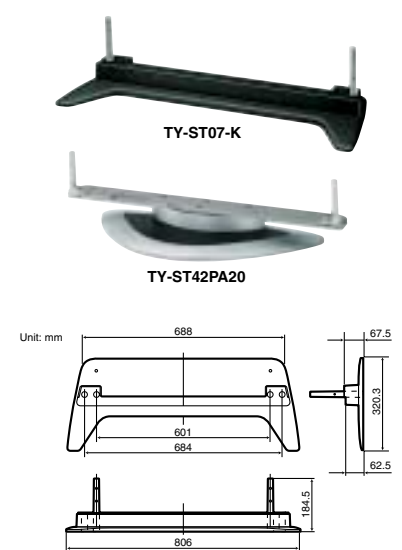


Terminals

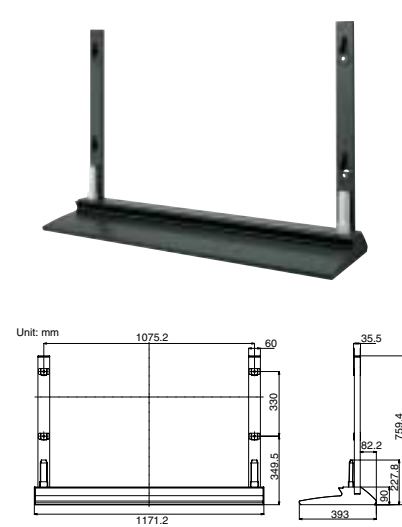


Options

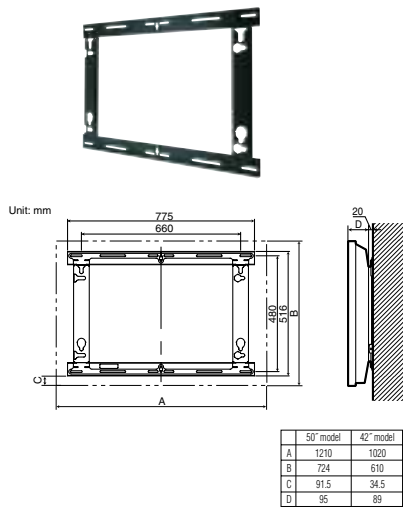
Pedestal
TY-ST07-K
TY-ST42PA20



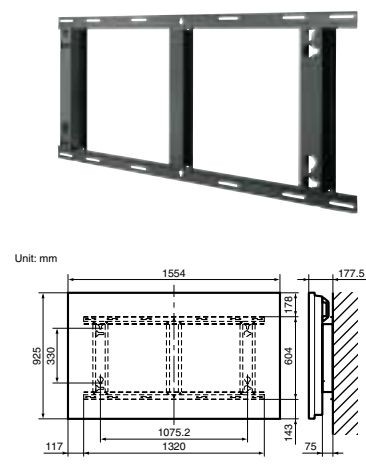
TY-ST65-K



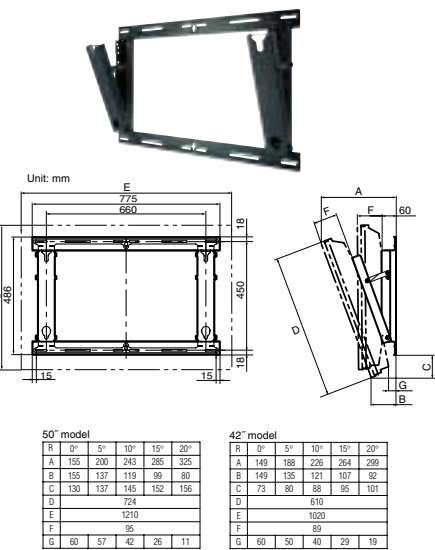
Wall-hanging bracket
TY-WK42PV7



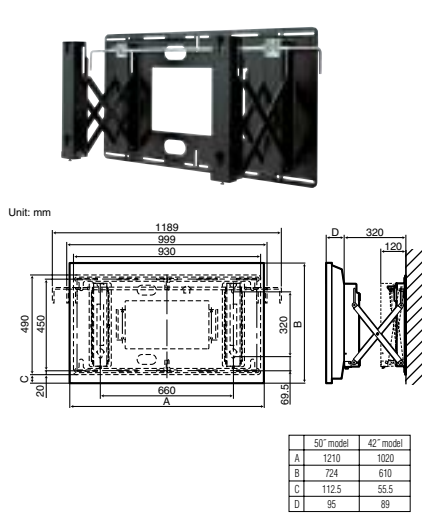
TY-WK65PV7



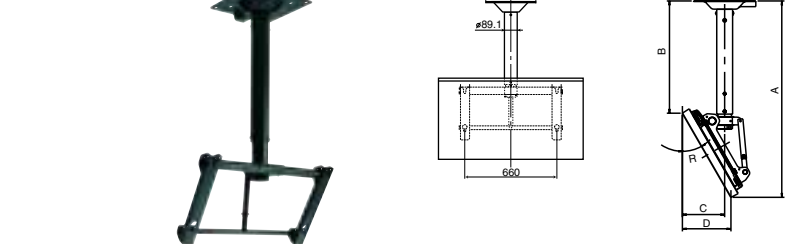
Wall-hanging bracket
(angled)
TY-WK42PR7



Wall-hanging bracket
(drawer type)
TY-WK42DR1



Ceiling-hanging bracket
TY-CE42PS7



| 50" model | | 42" model | |
|-----------|------|-----------|------|
| R | 0° | 15° | 30° |
| A | 1167 | 1267 | 1367 |
| B | 466 | 566 | 666 |
| C | 199 | 249 | 299 |
| D | 0 | 186 | 360 |

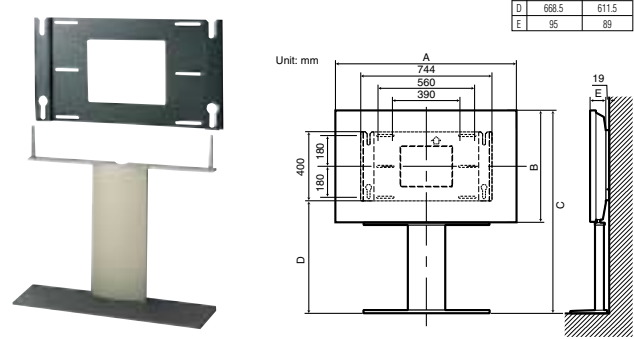
| 42" model | | 30" model | |
|-----------|------|-----------|------|
| R | 0° | 15° | 30° |
| A | 1130 | 1230 | 1330 |
| B | 523 | 623 | 723 |
| C | 193 | 228 | 252 |
| D | 0 | 157 | 303 |

Compatible Models at a Glance

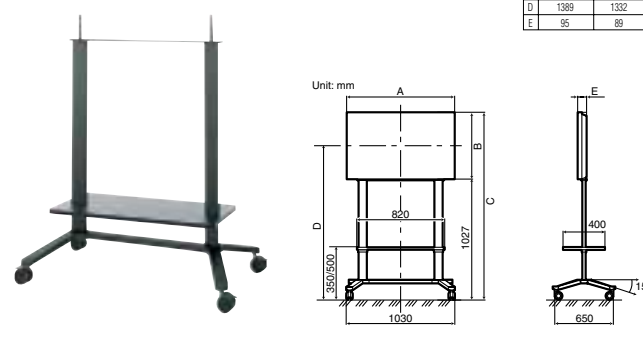
●: Compatible; —: Not compatible

| | TY-ST65-K | TY-ST07-K | TY-ST42PA20 | TY-WK42DR1 | TY-WK65PV7 | TY-WK42PV7 | TY-WK42PR7 | TY-ST42PW1 | TY-ST42PF3 | TY-CE42PS7 |
|----------------|-----------|-----------|-------------|------------|------------|------------|------------|------------|------------|------------|
| TH-65PHD7WK | ● | — | — | — | ● | — | — | — | — | — |
| TH-50PHD7WK/WS | — | ● (WK) | ● (WS) | ● | — | ● | ● | ● | ● | ● |
| TH-42PHD7WK/WS | — | ● (WK) | ● (WS) | ● | — | ● | ● | ● | ● | ● |
| TH-42PWD7WK/WS | — | ● (WK) | ● (WS) | ● | — | ● | ● | ● | ● | ● |

Wall stand
TY-ST42PW1



Mobile stand
TY-ST42PF3



Touch panel



TY-TPEN6 Touch Pen
also available.

Note: Use the optional mounting bracket, when you mount both a touch panel and the optional speakers at the same time.

| Specifications | | |
|-----------------------------|---|------------------------------|
| | TY-TP50P6-S | TY-TP42P6-S |
| Applicable display devices | Panasonic 50" plasma display | Panasonic 42" plasma display |
| Power supply (voltage) | DC + 5V ±10% (Through USB) | |
| Electric current | DC + 5V, Max 400mA | |
| Detection system | Infrared ray interruption | |
| Panel aperture (W x H) | 1118 x 632 mm | 928.5 x 526.5 mm |
| Detection range (W x H) | 1100 x 620 mm | 916 x 516 mm |
| Effective detection range | Above detection range + 1.0 mm top, bottom, right, and left | |
| Operating modes | Input point, Continuous, Moving, End point detection*1 | |
| Resolution (W x H) | 2201 x 1241*1 | 1833 x 1033*1 |
| Detection pitch | 2.0 x 2.0 mm | |
| Output system | Coordinate output | |
| Optical elements | 276 (H) x 156 (V) | 230 (H) x 130 (V) |
| Optical element pitch | 4.0 x 4.0 mm | |
| Minimum stylus | 6.0 x 6.0 mm | |
| Scan speed | First touch: 30 msec/frame max., Moving: 5 msec/frame max. | |
| Interface | USB1.1 compliant; Signal: +DATA, -DATA, VCC, GND; I/F connector: TYPE B | |
| Panel shape | Integrated flat panel controller | |
| Dimensions (W x H x D) | 1256 x 748 x 69 mm | 1066 x 634 x 69 mm |
| Depth when mounted | 118 mm | 110 mm |
| Weight (excluding brackets) | 4.2 kg | 3.5 kg |
| Escutcheon (frame) | Aluminum | |
| USB driver/Applicable OS | Windows® 98SE/2000/ME/XP | |

*1 When using the specific driver software.

Detachable stereo speakers



TY-SP65P7W-K (for TH-65PHD7WK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 100 x 925 x 90 mm
Weight: 2.2 kg/each

TY-SP50P5W-K (for TH-50PHD7WK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 104 x 724 x 89 mm
Weight: 2.3 kg/each

TY-SP42P5W-K (for TH-42PHD7WK, 42PWD7WK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 104 x 610 x 89 mm
Weight: 2.1 kg/each



TY-SP50P6W-S (for TH-50PHD7WS)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 104 x 724 x 89 mm
Weight: 2.3 kg/each

TY-SP42P6W-S (for TH-42PHD7WS, 42PWD7WS)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 104 x 610 x 89 mm
Weight: 2.1 kg/each

Peripherals

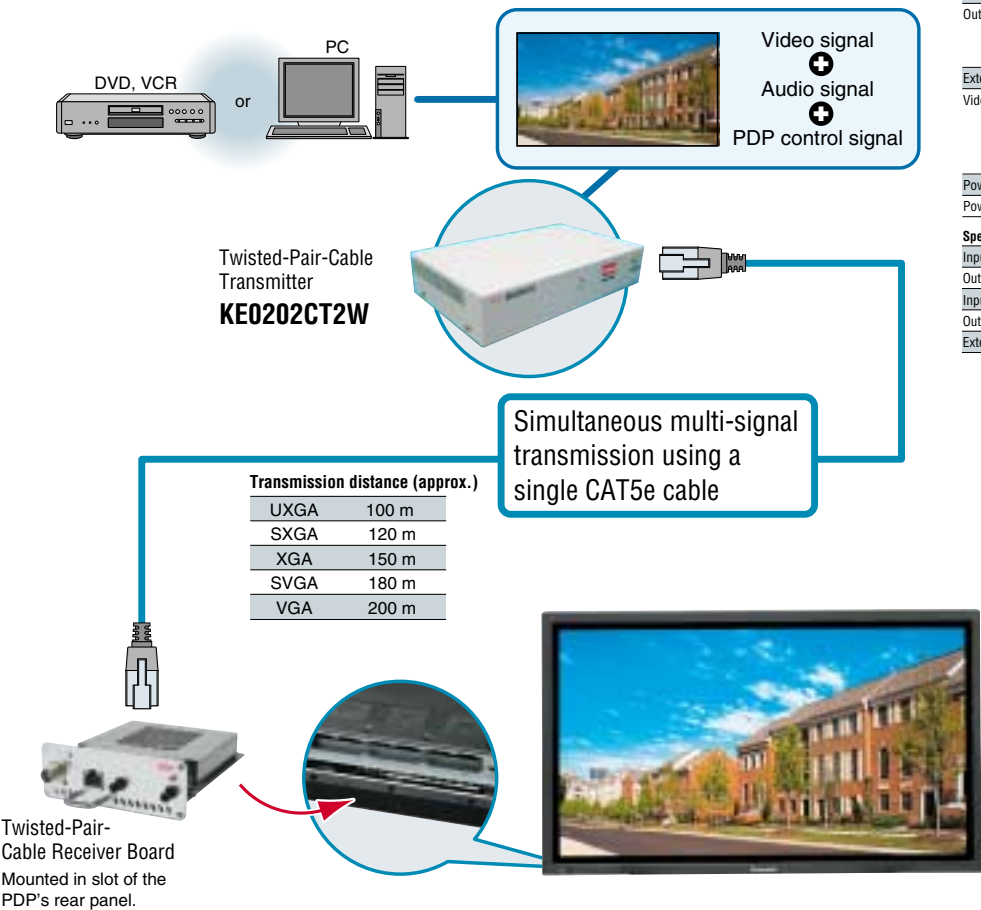
* Some peripherals are not available in some countries. Consult your local sales company for details.

Twisted-Pair-Cable Receiver Board

- The Twisted-Pair-Cable Receiver Board makes it possible, using a single CAT5e cable, to simultaneously send video signal (RGB, component, or composite), audio signal and the PDP control signal.
- * To send a composite video signal, the Composite Video Terminal Board (TY-42TM6Y, 42TM6B or 42TM6V) must be mounted in the slot of PDP.
- 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 150 m.
- Because the Twisted-Pair-Cable Receiver Board mounts in a multi-function slot, it runs on power supplied by the PDP and takes up no additional equipment space.

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>



KE0101CRBW
(Video, audio and PDP control signals) (Mounts in any slot*)

* Should be mounted in slot 1 to send the PDP control signal. PDP control signal transmission is one-way.

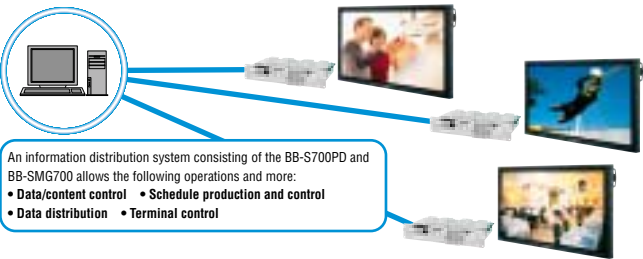
| Specifications (KE0101CRBW) | |
|-----------------------------|--|
| Applicable displays | Panasonic Plasma Displays |
| Input channel | 1 input system for extension |
| Output channel | 1 system (internal connector) for RGB or 1 system (external connector) for Video, 1 system for sound and 1 system for RS-232C |
| 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 _H , P _C : ± 0.35Vp-p (75 ohms) Video: 1.0Vp-p (75 ohms) |
| Power supply | Supplied from the plasma display |
| Power consumption | Approx. 6 W |

| Specifications (KE0202CT2W) | |
|-----------------------------|--|
| Input channel | 1 each for video (RGB and video) 1 each for audio and 1 for RS-232C |
| Output channel | 1 each for monitor output (RGB, video, and audio) 1 for extension output (2 division) 1 for extension output (2 division) |
| Extension cable | CAT5/CAT5e/CAT6 |
| Video output signal | Analog RGB: 0.7Vp-p (75 ohms); HD, VD: TTL Component: Y: 1.0Vp-p (75 ohms) sync signal included P _H , P _C : ± 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 (KE0108CHDW) | |
|-----------------------------|---------------------|
| 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 |

Networked MPEG2 Player

- Mounts in the function slot to reduce wiring and save space. The local remote control allows playback control without the need for a mouse and keyboard.
- Video signals are transmitted digitally to ensure crisp, clear images.
- The hardware decoder produces DVD-level image quality by supporting MPEG2 MP@ML (Main Profile@Main Level) transport. High-bit-rate data also streams smoothly because all playback data is first stored in the built-in hard disk.
- Combination with the BB-SMG700 Streaming Box Manager makes it possible to schedule the distribution of motion video, still images and other content, and deliver over a LAN or Internet.



Direct playback is also possible using the included remote control.

BB-S700PD Streaming Box
(Mounts in slots 1 & 2)

PDP Controller

- Function board design reduces wiring and saves space.
- Clear images made possible by digital connection using the function slot of the plasma display.
- Customised to maximise the performance of Panasonic plasma displays.
 - Realistic display images achieved by a 1:1 pixel correspondence with Panasonic plasma displays.
 - Can also be used in vertical display applications.
- Models with a pre-installed, digital signage system are also available.
- Easy to install, it requires only a network and power connection. The mouse/keyboard connections can be wireless, through the PCMCIA slots.



VC250 series (Mounts in slots 1, 2 & 3)



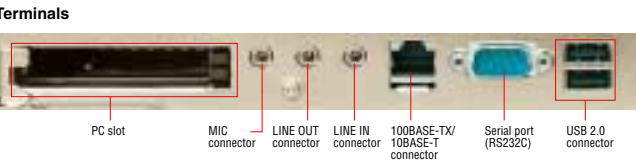
| Specifications | |
|----------------|--|
| Hardware | Applicable displays |
| | Panasonic Plasma Displays |
| | HDD capacity |
| | Approx. 20 GB*1 |
| Hardware | External jacks |
| | 10BASE-T/100BASE-TX (RJ-45), Audio output (Stereo mini jack**2) |
| | Power supply |
| Software | Supplied from plasma display (DC 14V) |
| | Power consumption |
| | Approx. 14V/0.7A max. |
| | Web browser |
| Software | HTML4.01 subset, partial CSS1 and CSS2 |
| | ECMA Script 262 3rd edition (JavaScript 1.5 equivalent) |
| | Partial DOM Level 1, Level 2 and Dynamic HTML |
| Software | Applicable servers |
| | Streaming Box Manager BB-SMG700*3 |
| | Data distribution protocol |
| MPEG | Proprietary method (block data distribution with error-triggered retransmission function and encoding process) |
| | Image |
| | MPEG2 PS, MPEG2 TS, MP@ML |
| MPEG | Audio |
| | Linear PCM*4, MPEG Audio Layer 1, Layer 2 |
| MPEG | Maximum bit rate |
| | 10 Mbps (in storage and playback) |

*1: Part of this capacity is used by the system. *2: Exclusive use with internal connection. *3: Some functions are performed jointly with the BB-SMG700. *4: At sampling frequency of 48kHz.

BB-SMG700 Streaming Box Manager

Controls up to 100 plasma display panels.
This application contains all of the functions necessary for video distribution.

| BB-SMG700 Operating Environment | |
|---------------------------------|---|
| CPU | Pentium® IV 1GHz or faster, Recommended: Pentium® IV 2.4GHz or faster |
| Main storage memory | 512MB or more, Recommended: 1 GB or more |
| HDD capacity | Required capacity: 10 GB or more |
| Network interface | 1000BASE-T/100BASE-TX/10BASE-T |
| Applicable OS | Windows® XP Professional (SP1) |



| Specifications | |
|---------------------|--|
| Applicable displays | Panasonic Plasma Displays |
| CPU | ULV Pentium® M 900MHz |
| Main storage memory | Standard 256MB DDR SO-DIMM |
| Internal HDD | 2.5" HDD 30GB x 1 |
| Network | 100BASE-TX/10BASE-T x 1, Wake On LAN supported |
| Interfaces | Serial x 2*1, USB2.0/1.1 x 2*2, Line In x 1, Line Out x 1, MIC x 1 |
| PCMCIA slot | 2*3 |
| Preinstalled OS | Windows® XP Embedded |
| Dimensions | 315 (W) x 29 (H) x 211 (D) mm (including cooling fan) |
| Weight | 1.2 kg |
| Power supply | Supplied from the plasma display |
| Power consumption | 20 W max. |
| Standard | FCC Class A |

*1: One serial interface is connected internally. *2: USB 1.1 is for HID (human interface devices) only. Maximum power supply for the two ports is 3.5 W. *3: Maximum power supply for the two slots is 2.0 W when using 5.0 V, and 3.6 W when using 3.3 V.