Panasonic
ideas for life

Industry-leading
Flat Panel Displays

Image Quality and Versatility that Lead the Industry

Panasonic's business-use flat panel displays lead the industry in image quality and functions and are available in screen sizes from 32 to 65 inches.

Because flat panel displays are used in a variety of applications, they must meet a range of requirements. They must offer clear, faithful images. And they must provide advanced functions, screen sizes large enough for the installation location, and a level of resolution suited to the content that will be displayed.
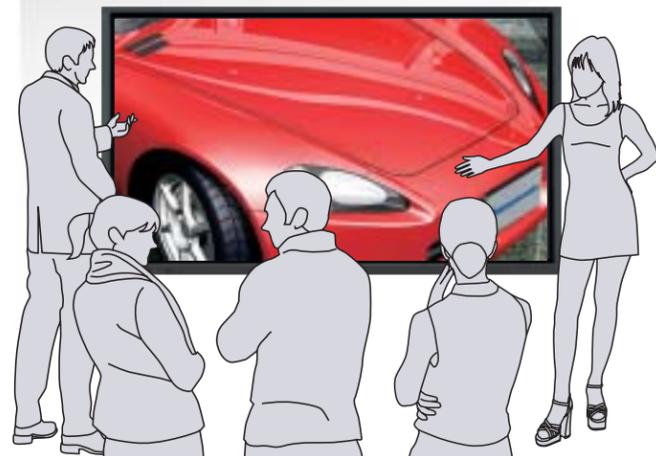
Panasonic flat panel displays provide all that and more. Our quest to lead the industry in image quality and innovative functions has led to a new lineup of seven models in five sizes and two different definition panels.

Throughout this new lineup you'll see Panasonic's commitment to providing high-performance flat panel displays that meet the widest range of professional applications.

65HD   TH-65PHD8UK

50HD   TH-50PHD8UK

42SD   TH-42PWD8UK

42HD   TH-42PHD8UK

37SD   TH-37PWD8UK

37HD   TH-37PHD8UK
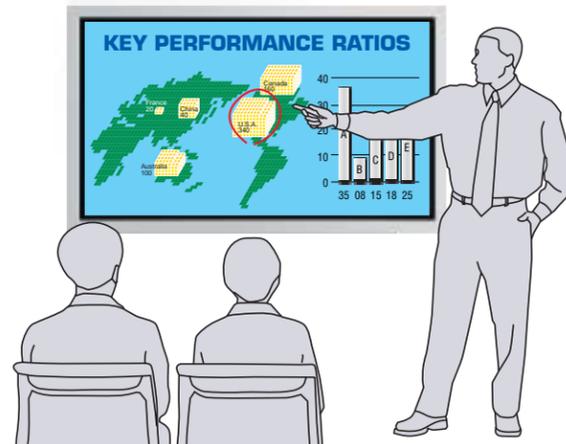
32HD   TH-32LHD7UY

65HD

The 65-inch plasma display has the powerful presence needed to draw attention in even a large event area. With its large screen and high resolution, this unit displays images that look clear and crisp even from a distance. It's also suitable for lecture halls and amusement facilities.

50HD

At business meetings, presentations and other situations calling for powerful visual impact, you can count on this 50-inch high-definition plasma display. An optional touch panel adds sophistication and ease. The system can be upgraded to display handwritten notes for even greater persuasive power.

42HD/SD
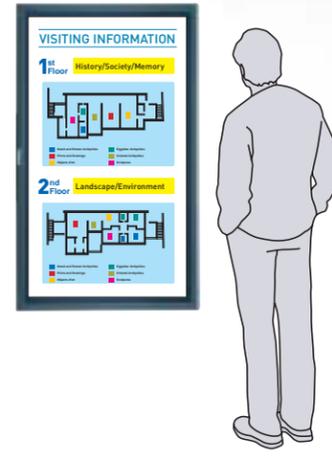
When set up for portrait display, this 42-inch plasma display is similar in size and aspect ratio to a movie-size poster. Use it as a moving image poster. Or upgrade the system with a scheduling function that displays content according to the correct time zone, and use it as a digital signboard.

37HD/SD
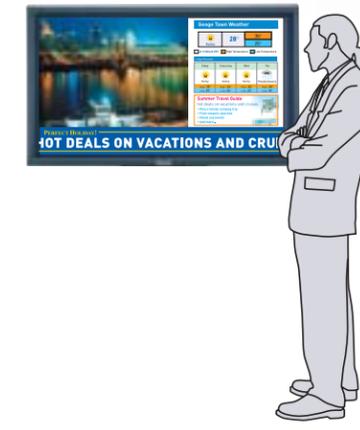
The 37-inch plasma display fits well in stores. It can display images from two video sources at the same time, making it ideal for information display in stores, show windows and other uses.

32HD
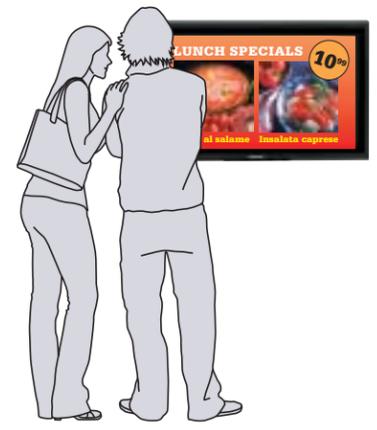
The 32-inch LCD display is perfect when space is at a premium. Function slots let you customize the unit for a specific application. This panel is suitable for displaying both text and still images.

Unmatched Expandability

The triple function slots* and a host of optional function boards offer outstanding flexibility and adaptability.

RGB Active Through Terminal Board
TY-42TM6G

Wireless Presentation Board
TY-FB7WPU

PC Input Terminal Board
TY-42TM6P

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

HDMI Terminal Board
TY-FB8HM

BNC Composite Video Terminal Board
TY-42TM6B

With triple function slots* and a variety of terminal boards, you have the flexibility to configure a system that's ideally suited to the content to be displayed. Create a customized system that meets your exact needs. Combined with the superb image quality, this level of flexibility makes Panasonic flat panel displays a high-performance solution to a range of applications.

* TH-37PHD8UK, 37PWD8UK and 32LHD7UY are equipped with dual function slots.

With Analog Equipment

Video terminal boards let you connect an S-VHS VCR or video camera. The TY-42TM6B has a video output terminal too, so you can also connect a sub-monitor device for monitoring images.

With Digital Equipment

The next-generation standard digital interface, HDMI terminal board digitally transfers video and audio signals over a single cable. Connect a compatible DVD player via an HDMI terminal, and the plasma display can reproduce images with the equivalent of 4,096 gradation levels.

With Broadcast Equipment

SDI/HD-SDI terminal boards are compatible with the SDI or HD-SDI (for HDTV) systems used in broadcasting studios. Panasonic displays are compatible with HD-SDI signals. With these boards, the display can reproduce crisp, clear images in a studio or control room.

With Multiple PCs

A PC input terminal board lets you connect multiple PCs. This can be ideal in conference rooms, classrooms, lecture halls and other sites where PCs are often used.

Wireless PC Connection

A wireless presentation board lets you display signals from up to four notebook PCs at the same time. This makes it easy to get a presentation or meeting underway quickly, without the time and trouble of connecting a number of cables.

Multi-Screen System

The RGB active-through terminal board lets you daisy-chain a number of panels to create a multi-screen plasma display system.

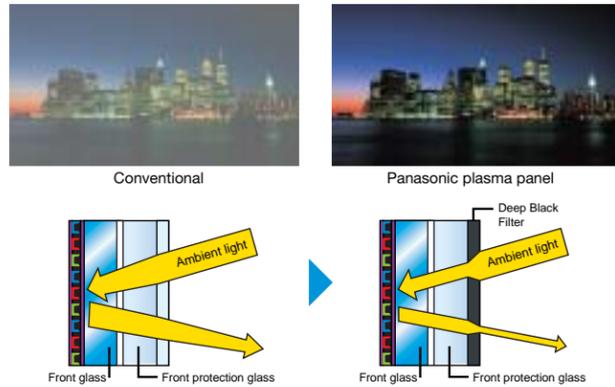Note: TH-32LHD7UY cannot be used in multi-screen applications.
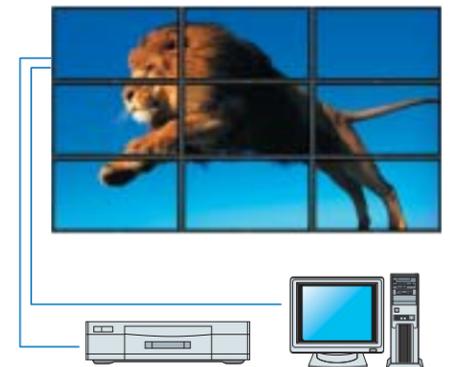
Industry's Best Picture Quality

Industry's Best[1] Bright-Area Contrast of 340:1[2]— Deep Black Filter[3]

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 technology helps these displays achieve the industry's highest contrast ratio of 340:1[2] when viewed in bright surroundings.
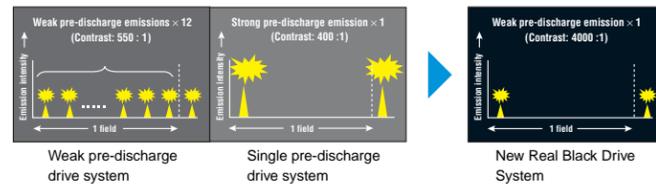
*1: As of July 1, 2005.
*2: For 42˝ SD & 37˝ HD models. Measured at 100 lux.

Conventional

Panasonic plasma panel

Deep Black Filter

Ambient light

Ambient light

Front glass   Front protection glass

Front glass   Front protection glass

Industry's Highest Level of Dark-Area Contrast — New Real Black Drive System[3]

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*4. The result is dramatically enhanced image clarity and realism.
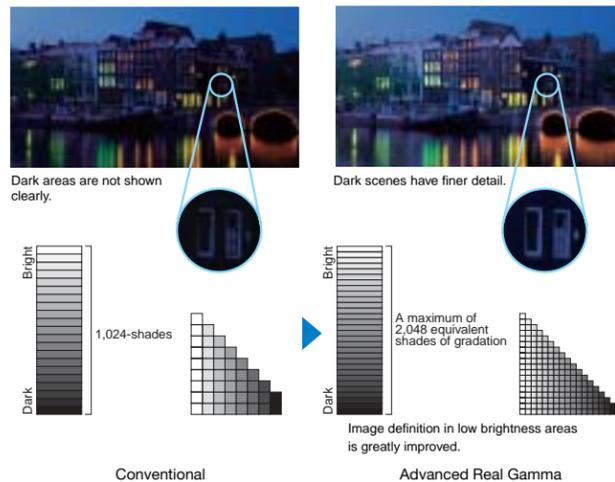
*4: For SD models.

Weak pre-discharge emissions × 12 (Contrast: 550 : 1)

Strong pre-discharge emission × 1 (Contrast: 400 :1)

Weak pre-discharge emission × 1 (Contrast: 4000 :1)

1 field   1 field   1 field

Weak pre-discharge drive system

Single pre-discharge drive system

New Real Black Drive System

## Industry's Highest Level of Gradation Steps — Advanced Real Gamma System[3]

Panasonic plasma display series uses ultra-precise, maximum 14-bit signal processing to produce vividly rich details. The Advanced Real Gamma System then takes it another step further with full-time, full-pixel 1,536-step gradation and 2,048-step dark-area gradation. This level of gradation brings intricate details and more faithful color reproduction to all scenes, dark and bright.

* The equivalent of 4,096 steps of gradation can be displayed with DVI or HDMI connection.

Dark areas are not shown clearly.

Dark scenes have finer detail.

Bright

Dark

Bright

Dark

1,024-shades

A maximum of 2,048 equivalent shades of gradation

Image definition in low brightness areas is greatly improved.

Conventional

Advanced Real Gamma

Industry's Highest Level of Brightness — Advanced Plasma Panel[3]

Panasonic plasma display panels feature 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, by optimizing the gas composition ratio, lighting efficiency has been increased by about 15%. The result is the industry's highest level of brightness. You see crisp and clear images even in bright rooms.

Conventional

Panasonic plasma panel

Images are crisp and clear even in bright rooms.
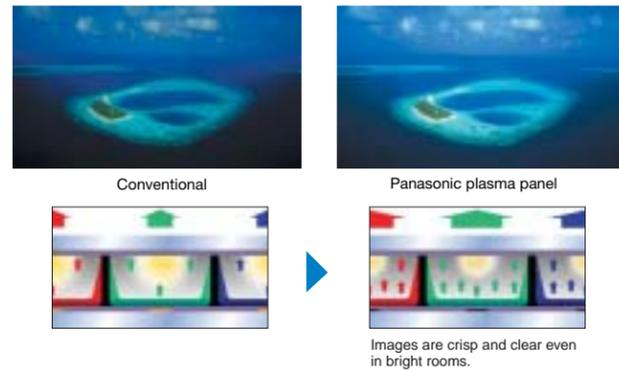
Long Service Life of 60,000 Hours[3]

A new drive circuit and inner panel improvements give Panasonic plasma panels a long service life of approximately 60,000 hours*5 even with their increased brightness. A newly developed phosphor also raises the plasma displays' resistance to static-image screen burning to the same level as CRT displays.

*5: The time until panel brightness is reduced to half its initial level, when displaying moving images at standard mode. Excludes afterimages and malfunctions.

High-Precision MPD Noise Reduction[3]

This 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.

Conventional

MPD Noise Reduction

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.

3D Color Management System

The 3D Color Management System achieves precise control based on 3D management in the color difference plane and brightness directions. This finer level of control produces more expressive images.

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

Brightness

Conventional

3D Color Management
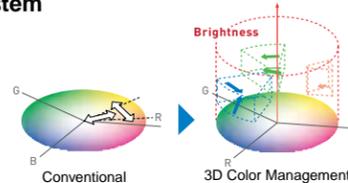
Adaptive AGC

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.

Advanced LCD Panel (TH-32LHD7UY)

Boasting an HD panel with 1,366 x 768 pixels, the TH-32LHD7UY LCD model relays all the detailed beauty of high-definition images. It achieves excellent brightness of 500 cd/m² with high contrast of 800:1. The result is vibrant, finely nuanced images even in brightly lit rooms. The viewing angle of 170° in both horizontal and vertical directions ensures superior legibility over a wide area.

*3: These features found on only plasma models.

Advanced Usability
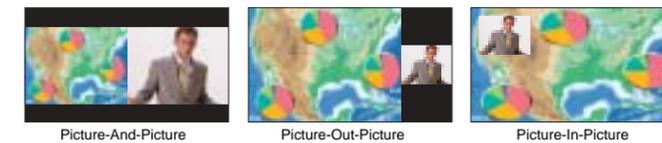
Advanced Dual Picture Mode

Panasonic plasma displays feature a new Advanced Dual Picture Mode in addition to the conventional Dual Picture Mode. This new 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. When displaying two separate images, you can select the audio output from either source (previous models reproduced audio from the main source only). Playing back the audio from the sub-source can be useful in teleconferencing, for example.

Note: TH-42PWD8UK and 37PWD8UK cannot display two images when both are from component video or RGB (PC) signal sources. The Advanced Dual Picture Mode may not work properly with some video signals and is not available on the TH-32LHD7UY.

Advanced Dual Picture Mode

HOT DEALS ON VACATIONS AND CRUISES   HOT DEALS ON VACATIONS AND CRUISES

Dual Picture Mode

Picture-And-Picture   Picture-Out-Picture   Picture-In-Picture

Remote System Monitoring

In addition to the conventional display control command and power supply/input selection check command, Panasonic flat panel displays feature a new 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 new monitor command, on the other hand, lets you monitor images by simply connecting a PC via a serial cable.

Multi-Screen Applications[3]
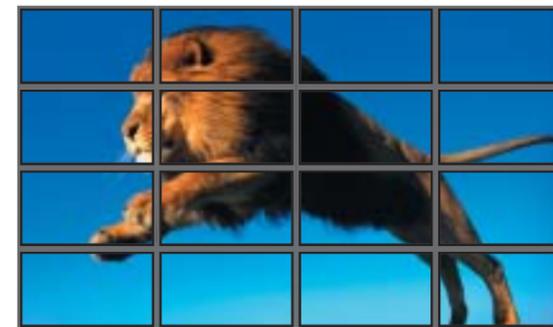
The built-in image-enlarging function makes it easier to set up a multi-screen display system with four (2 x 2), nine (3 x 3), or 16 (4 x 4) units. Thanks to the ID control function, you can use the standard remote control unit to control multiple panels individually. There is also a mode that displays a full-screen image, including the edges (the width of the frame) of the display panel — something not possible with previous systems. This is especially suitable for displaying text information, since no words are hidden by the frame.

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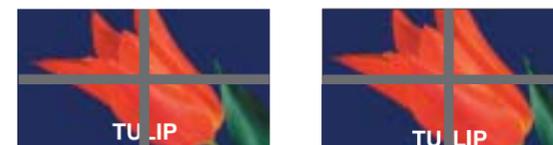
Note: The ambient temperature varies depending on the installation location. Provide sufficient air conditioning for surrounding conditions.

User-Friendly Remote Control[3]

Redesigned for easier operation, the remote control unit now features a Power Off button and Direct input select buttons. It also allows ID control in a multi-screen system.

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.

Vertical Mounting[3]

The 65-inch, 50-inch and 42-inch models 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: When using the display vertically, set it so the power button is on top. The 37-inch & 32-inch models cannot be positioned vertically.

New Cabinet Design[3]

Panasonic plasma displays (other than 65-inch model) introduce simple, slim front bezel design. Control buttons and the Power button are set on the bottom surface. This gives the panels a smooth, clean look while also helping prevent accidental operation and tampering.

Enhanced Screen Saver Functions[3]

A variety of screen saver functions help minimize 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 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.
• **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.)

Sound Menu[3]

The Sound Menu gives you a choice of three sound settings (Standard/Dynamic/Clear) to best match the kind of input source.

Fan-Less Quiet Operation[3]

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-65PHD8UK, 50PHD8UK and 42PHD8UK feature a noise-suppressing silence design.)

*3: These features found on only plasma models.

Industry's Best Expandability

Multi-Function Slots

In addition to the fixed input interface, the Panasonic flat panel display has three (or two) 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.

Multi-Function Slots on 65″, 50″ and 42″ Models

These models come equipped with the standard terminal boards mounted in slots 2 & 3. You can mount optional terminal board in slot 1. Or, you can remove the standard terminal boards and mount up to three optional boards.

Slot 1 — Slot 2 — Slot 3 — Fixed terminals
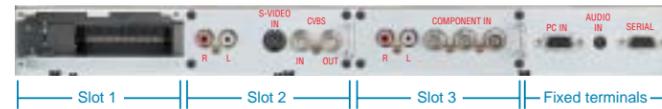
Multi-Function Slots on 37″ and 32″ Models

These models come with the standard terminal boards mounted in slots 1 and 2. You can remove the standard boards and mount one or two optional boards.

Slot 1 — Slot 2 — Fixed terminals
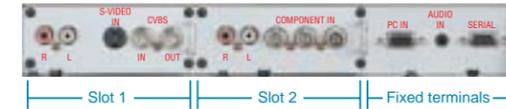
Optional Terminal Boards

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

TY-42TM6G

• Sends the signal that's input via the PC IN terminal to a second plasma display connected to the PC OUT terminal. This connectability adds convenience when configuring a multi-screen system.

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

TY-42TM6D

• Lets you connect a PC or other compatible digital equipment that outputs digital RGB signals (DVI-D compliant).
• Adding this board permits you to display images with the equivalent of 4,096 gradation levels[1].

[1]: For plasma display models only.

The characters in red are added for explanation.

HDMI Terminal Board
(mounts in slot 1 or 2; for plasma models only[2])

TY-FB8HM

HDMI — HIGH-DEFINITION MULTIMEDIA INTERFACE

• Enables fully digital connection of signals from HDMI-compatible DVD players and other digital equipment for blur-free images with no color bleeding.
• Adding this board permits you to display images with the equivalent of 4,096 gradation levels[1].

Specifications

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

[2]: Use the TY-FB7HM HDMI terminal board for the TH-32LHD7UY.
* High-Definition Multimedia Interface and HDMI are trademarks of HDMI Licensing, LLC.

BNC Component Video Terminal Board (mounts in any slot)

TY-42TM6A

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

TY-42TM6B

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

TY-42TM6Y

RCA Component Video Terminal Board (mounts in any slot)

TY-42TM6Z

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

TY-42TM6V

PC Input Terminal Board (mounts in any slot)

TY-42TM6P

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

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

SDI Terminal Board TY-FB7SD

HD-SDI Terminal Board TY-FB7HD

• Supports the serial digital interface (SDI) used in broadcasting.
• Provides fully digital transmission for clear, clean image displays.
• The TY-FB7HD supports HDTV.

Specifications

	TY-FB7SD	TY-FB7HD
Standards compliance	SMPTE259M-C	SMPTE292M, SMPTE259M-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

Wireless Presentation Board (mounts in slot 1)

TY-FB7WPU

• Allows wireless connection (IEEE 802.11b compliant) of the plasma display and a PC.
• The Multi Live Mode displays up to four PC screens simultaneously.
• The Live Mode projects the screen from one PC onto the entire plasma display.
• Lets you control plasma displays with a Web browser.

4-Screen Style

Index Style

Options

Touch Panel

TY-TP65P8-S (for TH-65PHD8UK)
TY-TP50P8-S (for TH-50PHD8UK)
TY-TP42P8-S (for TH-42PHD8UK/42PWD8UK)

This add-on touch panel lets you write directly onto the screen with a light touch. Ideal for adding written comments during a presentation or meeting.

• Highly reliable optical sensor system
• Outstanding resolution, easy operation
• Thin design makes a precise fit with display screen
• Lets you use display as a "whiteboard"

* The photo above shows the TY-TP65P8-S and may differ slightly from the actual final product appearance of TY-TP50P8-S and TY-TP42P8-S.

TY-TPEN6 Touch Pen also available.

	TY-TP65P8-S
Applicable display devices	Panasonic 65″ 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)	57.3″ x 32.0″ (1455 x 826 mm)
Detection range (W x H)	56.7″ x 31.9″ (1440 x 812 mm)
Effective detection range	Above detection range + 1.0 mm top, bottom, right, and left
Operating modes	Input point, Continuous, Moving end point detection*
Resolution (W x H)	2881 x 1625*
Detection pitch	2.0 x 2.0 mm
Output system	Coordinate output
Optical elements	361 (H) x 204 (V)
Optical element pitch	4.0 x 4.0 mm
Minimum stylus	6.0 x 6.0 mm
Scan speed	First touch: 45 msec/frame max.
	Moving: 10 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)	62.9″ x 37.4″ x 2.8″ (1598 x 951 x 72 mm)
Depth when mounted	6.7″ (170 mm)
Weight (excluding brackets)	11.0 lbs. (5.0 kg)
Escutcheon (frame)	Aluminum
USB driver/Applicable OS	Microsoft Windows® 98SE/2000/ME/XP

* When using the specific driver software.

Detachable Stereo Speakers

TY-SP65P7W-K (for TH-65PHD8UK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 3.9″ x 36.4″ x 3.5″ (100 x 925 x 90 mm)
Weight: 4.9 lbs. (2.2 kg)/each

TY-SP50P8W-K (for TH-50PHD8UK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 4.2″ x 28.5″ x 3.5″ (107 x 724 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

TY-SP42P8W-K (for TH-42PHD8UK/42PWD8UK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 4.2″ x 24.0″ x 3.5″ (107 x 610 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

TY-SP37P8W-K (for TH-37PHD8UK/37PWD8UK)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 4.2″ x 21.7″ x 3.5″ (107 x 550 x 88 mm)
Weight: 4.4 lbs. (2.0 kg)/each

TY-SP32L7W-K (for TH-32LHD7UY)
Configuration: 2-way, 3-speaker
Dimensions (W x H x D): 4.0″ x 19.7″ x 4.0″ (102 x 500 x 102 mm)
Weight: 4.2 lbs. (1.9 kg)/each

Peripherals

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

Twisted-Pair-Cable Receiver Board

KE01011CRBW (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.
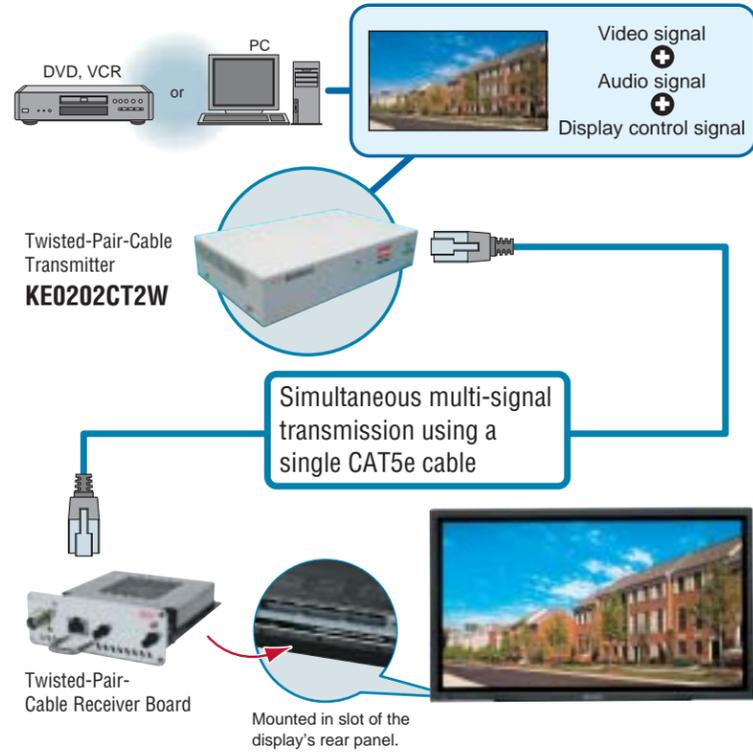- * To send a composite video signal, the Composite Video Terminal Board (TY-42TM6Y, 42TM6B or 42TM6V) must be mounted in the slot of the Plasma/LCD.
- This reduces both costs and setup time compared with a conventional BNC cable connection.
- XGA signals (1024 x 768 pixels) can be sent up to 492 ft.

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

DVD, VCR   or   PC

Video signal
+
Audio signal
+
Display control signal

Twisted-Pair-Cable Transmitter
KE0202CT2W

Simultaneous multi-signal transmission using a single CAT5e cable

Twisted-Pair-Cable Receiver Board

Mounted in slot of the display's rear panel.

Networked MPEG2 Player

BB-S700PD (Mounts in slots 1 & 2)

- 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 Management Software makes it possible to schedule the distribution of motion video, still images and other content, and deliver over a LAN or Internet.

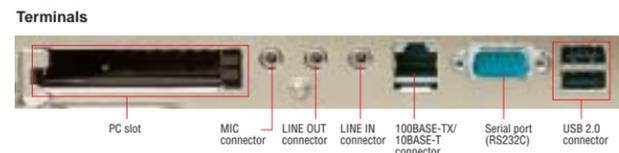Direct playback is also possible using the included remote control.

BB-SMG700 Management Software
- Controls up to 100 plasma display panels.
- This application contains all of the functions necessary for video distribution.

Terminals

Audio Out   LAN jack   Status indicator

PDP Controller (for 65˝, 50˝ and 42˝ models)

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

- Clear images made possible by digital connection using the function slot of the plasma display.
- Customized to maximize 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.

Terminals

PC slot   MIC   LINE OUT   LINE IN   100BASE-TX/   Serial port   USB 2.0
           connector connector connector 10BASE-T   (RS232C)   connector
                                            connector

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 10) 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.

System Configuration

Content production and delivery, System control

Control PC

2F   3F   4F   5F

PDP with touch panel

PDP controller

LAN/Internet/Satellite Network

Integrated design (mounts in function slot)

PDP controller

PDP with touch panel

Near the 1st floor entrance
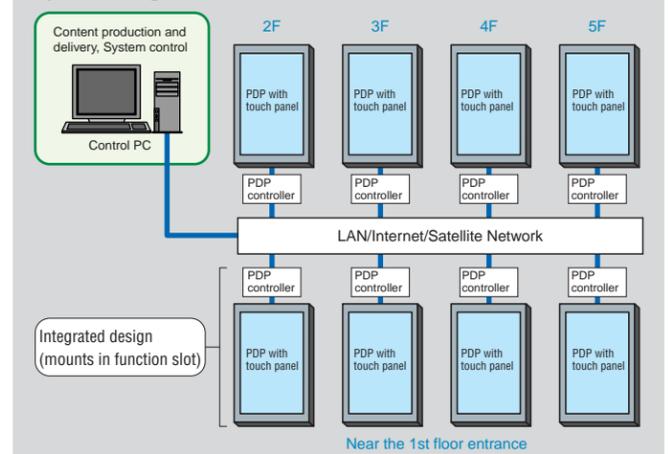
* You can configure a 50-inch display and control system with a slim 4.6-inch profile by simply combining the TH-50PHD8 Plasma Display and TY-TP50P8-S Touch Panel, then mounting the PLUG-VC250 PDP Controller in the function slot of the plasma display.

* Content is distributed by a centralized control PC in an office and stored in the hard disk of each PDP controller, ready to be displayed by touch panel operation.

Multi-Presentation System Using a Variety of Peripheral Equipment

Supports diverse video sources. Mount peripherals to the plasma display to take advantage of its detailed images and wide viewing angle.

• No Complicated Connections
You can connect multiple notebook PCs to a single plasma display by simply making the appropriate network settings. Naturally, this means that the conference room is neater, because there are no connection cables to clutter it up. The display can also be controlled by the PCs.

• Display Four PC Screens at the Same Time
It is easy to hold group presentations, because the screen images of up to four PCs can be displayed simultaneously.

• A Wealth of Functions in a Compact System
The large screen and wide viewing angle of the plasma display make it ideal for use in discussions. You can optimise it even further by adding an array of peripheral equipment:
- Mounting a component video terminal board lets it receive the input of high-resolution DVD signals.
- Mounting a composite video terminal board enables connection of various analog equipment.
You can select the input for whichever video source you want easily with the remote control. And you can mount the entire system to a wheeled stand, for easy movement.

System Configuration

PC

Speakers

Wireless connection

Component video (RCA) terminal board

Composite video (RCA) terminal board

Wireless presentation board

Component video connection

S-video/ Video connection

DVD   VCR

The mobile stand makes movement easy.
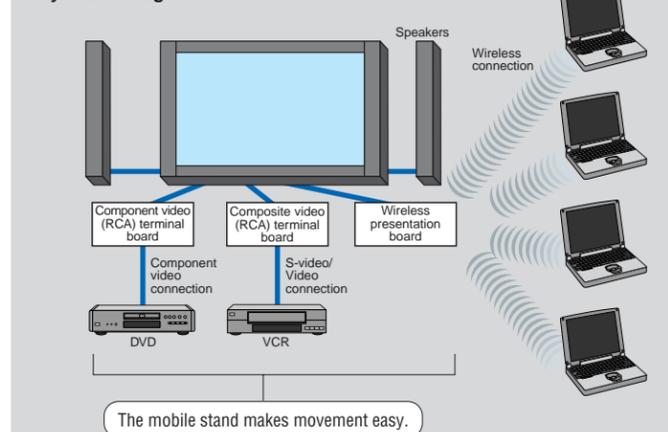
The devices can be selected by switching the input to the plasma display.

* When equipped with the TY-FB7WPU Wireless Presentation Board, the TY-42TM6V Composite Video Terminal (RCA) Board, and the TY-42TM6Z Component Video Terminal (RCA) Board, the 50-inch Plasma Display is ready to connect to a wide range of equipment.

* The TY-ST42PF3 Mobile Stand with casters (see page 19 for details).

An Endless Array of Applications

In-Store Display

Shopping Mall, Panama

TESCO, London, UK

Amusement
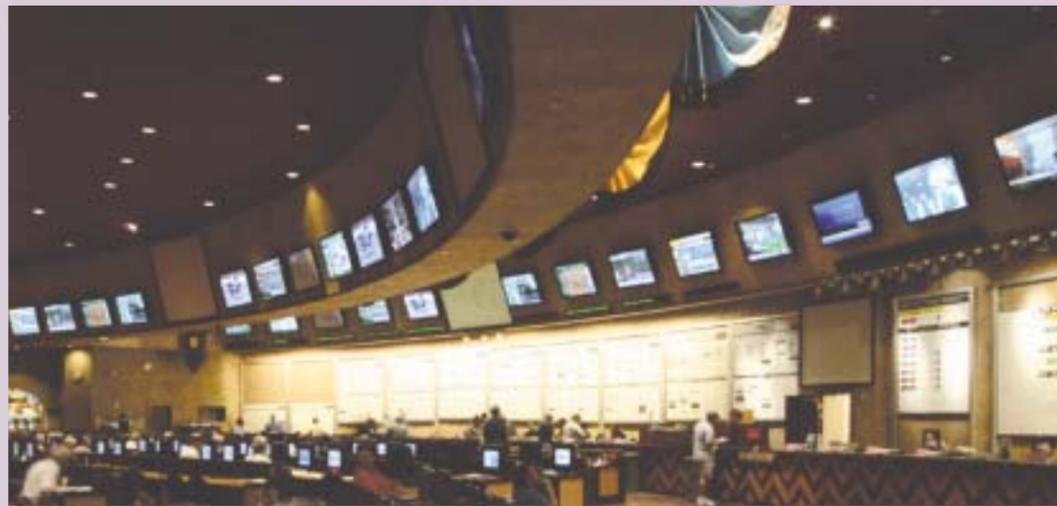
Sunset Stations Casino, Las Vegas, USA (30 units of 65˝ displays)

Bowling Alley, Tokyo, Japan

Education

School, Addis Ababa, Ethiopia

Ritsumeikan University, Kusatsu, Japan

Information

Sumitomo Mitsui Bank, Kobe, Japan

Hospitality

Marina Mandarin Hotel, Singapore

TV Production

Asahi Broadcasting Corporation, Osaka, Japan

Line Up

	Plasma HD Models	Plasma SD Models	LCD HD Model

TH-65PHD8UK
65-inch (165 cm) diagonal
High Definition Plasma Display
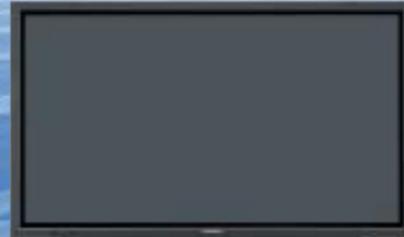
TH-50PHD8UK
50-inch (127 cm) diagonal
High Definition Plasma Display

TH-42PHD8UK
42-inch (106 cm) diagonal
High Definition Plasma Display

TH-37PHD8UK
37-inch (94 cm) diagonal
High Definition Plasma Display

TH-42PWD8UK
42-inch (106 cm) diagonal
Wide Plasma Display

TH-37PWD8UK
37-inch (94 cm) diagonal
Wide Plasma Display

TH-32LHD7UY
32-inch (80 cm) diagonal
High Definition LCD Display

Specifications

| Model Number		TH-65PHD8UK	TH-50PHD8UK	TH-42PHD8UK	TH-37PHD8UK	TH-42PWD8UK	TH-37PWD8UK
Power Source		120 V AC, 50/60 Hz	120 V AC, 50/60 Hz	120 V AC, 50/60 Hz	120 V AC, 50/60 Hz	120 V AC, 50/60 Hz	120 V AC, 50/60 Hz
Power Consumption		675 W	440 W	337 W	282 W	275 W	250 W
	Power off condition	0.2 W	0.1 W	0.1 W	0.05 W	0.05 W	0.05 W
	Stand-by condition	Save On: 0.5 W / Save Off: 0.7 W	Save On: 0.4 W / Save Off: 0.6 W	Save On: 0.4 W / Save Off: 0.6 W	Save On: 0.7 W / Save Off: 1.0 W	Save On: 0.7 W / Save Off: 1.0 W	Save On: 0.7 W / Save Off: 1.0 W
Plasma Display Panel		Drive method: AC type .65-inch, 16:9 aspect ratio	Drive method: AC type 50-inch, 16:9 aspect ratio	Drive method: AC type 42-inch, 16:9 aspect ratio	Drive method: AC type 37-inch, 16:9 aspect ratio	Drive method: AC type 42-inch, 16:9 aspect ratio	Drive method: AC type 37-inch, 16:9 aspect ratio
Contrast Ratio		3000:1	3000:1	3000:1	3000:1	4000:1	4000:1
Screen Size W x H		56.5" x 31.7" (1,434 x 806 mm)	43.5" x 24.5" (1,106 x 622 mm)	36.2" x 20.4" (920 x 518 mm)	32.2" x 18.1" (818 x 461 mm)	36.2" x 20.4" (920 x 518 mm)	32.2" x 18.1" (818 x 461 mm)
	Diagonal	65" (1,645 mm)	50" (1,269 mm)	42" (1,056 mm)	37" (939 mm)	42" (1,056 mm)	37" (939 mm)
Number of Pixels		1,049,088 (1,366 [W] x 768 [H])	1,049,088 (1,366 [W] x 768 [H])	786,432 (1,024 [W] x 768 [H])	737,280 (1,024 [W] x 720 [H])	408,960 (852 [W] x 480 [H])	408,960 (852 [W] x 480 [H])
Audio Output (10% THD)		20 W (10 W + 10 W)	16 W (8 W + 8 W)	16 W (8 W + 8 W)	16 W (8 W + 8 W)	16 W (8 W + 8 W)	16 W (8 W + 8 W)
Operating Conditions		Temperature: 32°F — 104°F (0°C — 40°C); Humidity: 20 % — 80 % (Non condensation)					
Dimensions (W x H x D) (exclusive of protruding portion)		61.2" x 36.4" x 3.9" (1,554 x 925 x 99 mm)	47.6" x 28.5" x 3.7" (1,210 x 724 x 95 mm)	40.2" x 24.0" x 3.5" (1,020 x 610 x 89 mm)	36.2" x 21.7" x 3.5" (920 x 550 x 89 mm)	40.2" x 24.0" x 3.5" (1,020 x 610 x 89 mm)	36.2" x 21.7" x 3.5" (920 x 550 x 89 mm)
Weight		172.0 lbs. (78.0 kg)	94.8 lbs. (43.0 kg)	69.4 lbs. (31.5 kg)	57.3 lbs. (26.0 kg)	65.0 lbs. (29.5 kg)	55.1 lbs. (25.0 kg)
EMI Regulations		FCC Part 15 Class B Digital Devices					
Safety Standards		UL6500/C-UL					
Color System		NTSC, PAL, PAL 60, SECAM, Modified NTSC					
Applicable PC Signals		XGA (Signals exceeding XGA are compressed and displayed.)				VGA (Signals exceeding VGA are compressed and displayed.)	
Terminals AV (Slot-type)		VIDEO IN/OUT (BNC): 1.0 Vp-p (75-ohms or high-impedance)					
		S-VIDEO (Mini DIN 4-pin): Y: 1.0 Vp-p (75-ohms), C: 0.286 Vp-p (75 ohms)					
		AUDIO IN L/R (RCA pin jack x 2): 0.5 Vrms (high impedance)					
	COMPONENT/RGB	Y/G (BNC): 1.0 Vp-p/composite (75-ohms); 0.7 Vp-p/non-composite (75 ohms)					
		P$_B$, P$_R$/C$_B$, C$_R$ (BNC): 0.7 Vp-p (75 ohms); R/B (BNC): 0.7 Vp-p (75 ohms)					
		AUDIO IN L/R (RCA pin jack x 2): 0.5 Vrms (high impedance)					
(Fixed) PC		(Mini D-sub 15-pin)					
		fH: 15 — 110 kHz; fV: 48 — 120 Hz					
		R,G,B: 0.7 Vp-p (75-ohms)					
		Y: 1.0 Vp-p (75-ohms; including sync)					
		P$_B$, P$_R$/C$_B$, C$_R$: ± 0.7 Vp-p (75-ohms); HD, VD/1.0 — 5.0 Vp-p (high impedance)					
		Audio In (M3 jack): 0.5 Vrms (high impedance)					
	SERIAL	External control terminal (D-sub 9-pin), RS-232C compatible					

Model Number		TH-32LHD7UY
Power Source		120 V AC, 50/60 Hz
Power Consumption		234 W
	Power off condition	0.2 W
	Stand-by condition	Save On: 0.6 W / Save Off: 0.8 W
LCD Display Panel		a-Si TFT active matrix / 32-inch, 16:9 aspect ratio
Viewing Angle		Horizontal: 170°, Vertical: 170°
Contrast Ratio		800:1
Screen Size W x H		27.4" x 15.4" (697.7 x 392.3 mm)
	Diagonal	31.5" (800.4 mm)
Number of Pixels		1,049,088 (1,366 [W] x 768 [H])
Audio Output (10% THD)		16 W (8 W + 8W)
Operating Conditions		Temperature: 32°F — 104°F (0°C — 40°C); Humidity: 20 % — 80 % (Non condensation)
Dimensions (W x H x D)		31.7" x 19.7" x 4.0" (805 x 500 x 102 mm)
Weight		37.5 lbs. (17.0 kg)
EMI Regulations		FCC Part 15 Class B Digital Devices
Safety Standards		UL6500/C-UL
Color System		NTSC, PAL, PAL 60, SECAM, Modified NTSC
Applicable PC Signals		XGA (Signals exceeding XGA are compressed and displayed.)
Terminals AV (Slot-type)		VIDEO IN/OUT (BNC): 1.0 Vp-p (75-ohms or high-impedance)
		S-VIDEO (Mini DIN 4-pin): Y: 1.0 Vp-p (75-ohms), C: 0.286 Vp-p (75 ohms)
		AUDIO IN L/R (RCA pin jack x 2): 0.5 Vrms (high impedance)
	COMPONENT/RGB	Y/G (BNC): 1.0 Vp-p/composite (75-ohms); 0.7 Vp-p/non-composite (75 ohms)
		P$_B$, P$_R$/C$_B$, C$_R$ (BNC): 0.7 Vp-p (75 ohms); R/B (BNC): 0.7 Vp-p (75 ohms)
		AUDIO IN L/R (RCA pin jack x 2): 0.5 Vrms (high impedance)
(Fixed) PC		(Mini D-sub 15-pin)
		fH: 15 — 110 kHz; fV: 48 — 120 Hz
		R,G,B: 0.7 Vp-p (75-ohms)
		Y: 1.0 Vp-p (75-ohms; including sync)
		P$_B$, P$_R$/C$_B$, C$_R$: ± 0.7 Vp-p (75-ohms); HD, VD/1.0 — 5.0 Vp-p (high impedance)
		Audio In (M3 jack): 0.5 Vrms (high impedance)
	SERIAL	External control terminal (D-sub 9-pin), RS-232C compatible

Remote Control

Supplied Remote Control for PHD8/PWD8 series
(Comes with every Panasonic Plasma Display model.)

Remote Control Functions

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

Supplied Remote Control for TH-32LHD7UY

Remote Control Functions

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

Dimensions

TH-65PHD8UK

61.2″ / 57.9″ / 56.5″ — 3.9″ / 1.7″ — 1.9″ — 9.4″ / 61.2″ / 42.3″ — 5.9″ — 10.3″ — 31.7″ / 33.1″ / 36.4″ — 15.7″ / 2.8″ — 29.9″ — 39.8″ — 10.3″ — 15.6″
With the optional pedestal attached.

TH-50PHD8UK

47.6″ / 45.2″ / 43.5″ — 3.7″ / 1.7″ — 47.6″ / 26.0″ — 24.5″ / 26.1″ / 28.5″ — 14.3″ / 12.6″ / 14.3″ / 8.0″ — 30.8″ — 26.9″ / 4.9″ — 12.9″
With the optional pedestal attached.

TH-42PHD8UK/42PWD8UK

40.2″ / 37.9″ / 36.2″ — 3.5″ / 1.7″ — 40.2″ / 26.0″ — 20.4″ / 21.8″ / 24.0″ — 12.6″ / 12.0″ / 12.0″ / 5.7″ — 26.4″ — 26.9″ / 3.5″ — 12.9″
With the optional pedestal attached.

TH-37PHD8UK/37PWD8UK

36.2″ / 34.0″ / 32.2″ — 3.5″ / 1.7″ — 36.2″ / 26.0″ — 18.1″ / 19.3″ / 21.6″ — 12.6″ / 10.8″ / 10.8″ / 4.5″ — 24.0″ — 23.7″ / 3.6″ — 12.9″
With the optional pedestal attached.

TH-32LHD7UK

31.7″ / 27.5″ / 27.4″ — 2.1″ — 2.0″ / 4.0″ — 31.7″ / 13.3″ / 6.9″ — 15.4″ / 15.5″ / 19.7″ — 4.7″ / 9.8″ — 11.0″ / 9.8″ — 21.9″ — 6.9″ / 13.3″ — 10.7″
With the optional pedestal attached.

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-FB8HM
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	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*1	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*1	Y	Y	Y
	1125 (1080)/24p	27.00	47.92	Y	Y			Y	Y		Y	Y	
	1125 (1080)/24sF	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)/30p	27.00	24.00	Y	Y			Y	Y		Y	Y	
	1250 (1080)/50i	31.25	50.00	Y	Y			Y	Y		Y		
RGB	640 x 400 @70Hz	31.46	70.07	Y	Y			Y	Y		Y		
	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		

*1: The TH-32LHD7UY does not accept these signal formats.

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

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

6 7 8 9
1 2 3 4 5
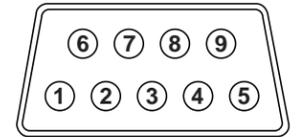
Pin Assignment and Signal Name

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

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

11 12 13 14 15
6 7 8 9 10
1 2 3 4 5
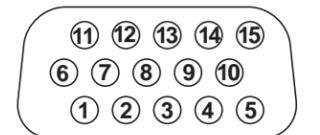
Signal Name

Pin No.	Signal name
1	R (P_R/C_R)
2	G (Y)
3	B (P_B/C_B)
4	GND (Ground)
5	GND (Ground)
6	GND (Ground)
7	GND (Ground)
8	GND (Ground)
9	NC (Not connected)
10	GND (Ground)
11	GND (Ground)
12	SDA
13	HD/SYNC
14	VD
15	SCL

Mounting Options

Wall-hanging bracket

TY-WK65PV7

Unit: inch

TY-WK42PV7

Unit: inch

TY-WK37PV3

Unit: inch

	50″ model	42″ model	37″ model
A	47.6	40.2	36.2
B	28.5	24.0	21.7
C	3.6	1.4	1.8
D	3.7	3.5	3.5

Wall-hanging bracket (angled)

TY-WK42PR7

Unit: inch

TY-WK32LR1S

Unit: inch

50″ model

R	0°	5°	10°	15°	20°
A	6.1	7.9	9.6	11.2	12.8
B	6.1	5.4	4.7	3.9	3.1
C	6.1	5.4	5.7	6.0	6.1
D			28.5		
E			47.6		
F			3.7		
G	2.4	2.2	1.7	1.0	0.4

42″ model

R	0°	5°	10°	15°	20°
A	5.5	7.4	8.9	10.4	11.8
B	5.5	5.3	4.8	4.2	3.6
C	2.9	3.1	3.5	3.7	4.0
D			24.0		
E			40.2		
F			3.5		
G	2.4	2.0	1.6	1.1	0.7

37″ model

R	0°	5°	10°	15°	20°
A	6.5	8.1	9.5	11.0	12.3
B	5.9	5.9	7.3	8.7	10.1
C	1.7	2.0	2.1	2.2	2.4
D			21.7		
E			36.2		
F			3.5		
G	2.4	2.1	1.8	1.5	1.1

Wall-hanging bracket (drawer type)

TY-WK42DR1

Unit: inch

	50″ model	42″ model
A	47.6	40.2
B	28.5	24.0
C	4.4	2.2
D	3.7	3.5

Pedestal

TY-ST65-K

Unit: inch

TY-ST08-K

Unit: inch

TY-ST07-K

Unit: inch

TY-ST32L7-K

Unit: inch

Ceiling-hanging bracket
TY-CE42PS7

Unit: inch

50″ model

R	0°					15°					30°			
A	46.7	50.7	54.6	58.6		47.3	51.2	55.2	59.1		46.5	50.4	54.4	58.3
B	18.3	22.3	26.2	30.1		19.9	23.9	27.8	31.7		22.0	25.9	29.8	33.8
C		7.8					9.8					11.3		
D		0					7.3					14.2		

42″ model

R	0°					15°					30°			
A	44.5	48.4	52.4	56.3		45.1	49.0	52.9	56.9		44.4	48.4	52.3	56.2
B	20.6	24.5	28.4	32.4		22.1	26.0	29.9	33.9		23.8	27.7	31.7	35.6
C		7.6					9.0					9.9		
D		0					6.2					11.9		

37″ model

R	0°					15°					30°			
A	43.3	47.3	51.2	55.1		43.9	47.9	51.8	55.7		43.4	47.4	51.3	55.2
B	21.8	25.7	29.6	33.6		23.2	27.1	31.0	35.0		24.8	28.8	32.7	36.6
C		7.6					8.7					9.3		
D		0					5.6					10.7		

Wall stand
TY-ST42PW1

Unit: inch

	50″ model	42″ model	37″ model
A	47.6	40.2	36.2
B	28.5	24.0	21.7
C	48.4	44.0	41.6
D	26.3	24.1	22.9
E	3.7	3.5	3.5

Mobile stand
TY-ST42PF3

Unit: inch

	50″ model	42″ model
A	47.6	40.2
B	28.5	24.0
C	68.9	64.4
D	54.7	52.4
E	3.7	3.5

Compatible Models at a Glance

●: Compatible; —: Not compatible

	TY-ST65-K	TY-ST08-K	TY-ST07-K	TY-ST32L7-K	TY-WK42DR1	TY-WK65PV7	TY-WK42PV7	TY-WK37PV3	TY-WK42PR7	TY-WK32LR1S	TY-ST42PW1	TY-ST42PF3	TY-CE42PS7
TH-65PHD8UK	●	—	—	—	—	●	—	—	—	—	—	—	—
TH-50PHD8UK	—	●	●	—	●	—	●	—	●	—	●	●	●
TH-42PHD/PWD8UK	—	●	●	—	●	—	●	—	●	—	●	●	●
TH-37PHD/PWD8UK	—	●	●	—	—	—	●	●	●	—	●	—	●
TH-32LHD7UY	—	—	—	●	—	—	—	—	—	●	—	—	—