#### Preset Input Signals

					Optional Board								
Si	Horizontal Frequency (kHz)		Vertical Frequency (Hz)	Standard- Equipped Boards	TY-42TM6Y	TY-42TM6B/V	TY-42TM6A/Z	TY-42TM6P	TY-42TM6D	TY-42TM6G	TY-FB7SD	TY-FB7HD	TY-FB7HM
	NTSC	15.73	59.94	Y	Y	Y							
Composite	PAL	15.63	50.00	Y	Y	Y							
d	PAL60	15.73	59.94	Y	Y	Y							
l S	SECAM	15.63	50.00	Y	Y	Y							
<b>–</b>	Modified NTSC	15.73	59.94	Y	Y	Y							
	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
Jen	750 (720)/50p	37.50	50.00	Y	Y		Y	Y		Y			
la	1125 (1080)/60i	33.75	60.00	Y	Y		Y	Y	Y	Y		Y	Y
Component	1125 (1080)/50i	28.13	50.00	Y	Y		Y	Y		Y		Y	
10	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			
	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	Υ		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	Υ		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	Υ		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	Υ		Y	Y	Y	Y			
	1024 x 768 @70Hz	56.48	70.07	Y	Y		Y	Y		Y			
RGB	1024 x 768 @75Hz	60.02	75.03	Y	Y		Y	Y		Y			
۱ <u>چ</u>	1024 x 768 @85Hz	68.68	85.00	Y	Y		Y	Y		Y			
	1152 x 864 @75Hz	67.50	75.00	Y	Υ		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	Υ		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			

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







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

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

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



Have assembly and installation done by a qualified electrician. Simulated pictures on screen. Specifications are subject to change without notice. Printed in Japan ASIA04S-01

# **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

# Above and Beyond: The Panasonic Commitment to Customer Satisfaction

## The I mage Quality and Versatility You Need Today, the System Expandability You' II Want Tomorrow

## New 65-inch plasma model f or use in larger-thanconventional displays

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

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

A h ost of Panasonic imaging tech nologies combine to ach ieve both the industry's h igh est gradation and outstanding 4, 000: 1\* contrast. The accuracy and detail our displays provide cannot be adeq uately expressed by specifications alone. Their ov erall image quality goes far beyond conventional standards. They provide pictures with the k ind of breath tak ing beauty that stirs emotion.

## Functions and expandability to meet a variety of applications

Dual Picture, Digital Zoom, multi-screen capability and oth er adv anced functions enh ance the usability of our displays. Our popular Multi-Function Slots are also prov ided. And we' v e expanded our lineup of optional terminal boards, making our displays solutions to an ev en wider range of customer needs.



...........



# Connection with analogue equipment



L ets you connect an S-VHS VCR or v ideo camera. Th is board h as a v ideo output terminal too, so you can also connect a sub-monitor dev ice for image monitoring.

BNC Composite Video Terminal Board TY-42 TM6 B





Allows full-digital transmission of v ideo signals, with no degradation. Allows reproduction of h igh-q uality images from a DVD player, PC or oth er compatible digital eq uipment.

RGB (Digital) Terminal Board (DVI-D with HDCP) TY-42 TM6 D

Connection with PC



L ets you connect multiple PCs. Use it in conference rooms, class rooms, lecture h alls and oth er site wh ere PCs are often used.

PC Input Terminal Board TY-42 TM6 P



# 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 highdefinition v ideo and audio v ia a single cable. When the HDMIcompatible DVD v ideo player is connected to this board, DVD images can be upconverted to 750p or 1125 i for output. HDMI Terminal Board TY-FB7HM



# Remote video distribution



For distant distribution of v ideo images. Images can be sent to th e plasma display in real time from distant eq uipment connected to th e transmitter.

Twisted-Pair-Cable Receiv er Board (Video Audio and PDP Control) KE0101CRBW



## Multi-screen system configuration



Th is board allows the daisy chaining of multiple plasma displays, mak ing it easy to configure a multi-screen system.

RGB Activ e-Th rough Terminal Board TY-42 TM6 G

# 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-disch arge emission when reproducing black, the New Real Black Driv e System prov ides deeper, rich er black s and a stunning 4000: 1 contrast\* . The result is dramatically enh anced 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 slash es the amount of external light reflected. This helps our displays achieve the industry's high est level of contrast when viewed in bright surroundinas.

### 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 oth er 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 dark er scenes and giv es images greater depth.





Conventional

**Technologies for Increasing Brightness** 

## 10% Brighter I mages —

## New MACH Panel with Bounded Cell Structure

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



structure

Conv entional stripe rib structure

dramatically improves both light-emitting efficiency and intensity. Furth ermore, 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 prev ious Panasonic model.

The new panel structure boasts a long serv ice life of 60, 000 hours\* . A newly dev eloped ph osph or 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 giv en abov e is intended as a guideline wh en displaying standard mov ing images. However, this time varies depending on the content of the images displayed and the usage environment.

#### High-Contrast I mages 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 v ideo 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 I mages — High-Precision MPD Noise Reduction

This newly dev eloped tech nology 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 mak es the necessary adjustments to maximize image quality. And it does this with out diminishing the quality of stationary obj ects, such as those in the back ground.





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

3 D Colour Management System is a new correction process that work s in a three-dimensional colour matrix (hue, saturation, and brigh tness) rath er th an the conventional two-dimensional colour difference plane. By correcting h ue and brigh tness independently and providing finer control, this process delivers vibrant colours and natural sk in tones.

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

Technologies for Enhancing Resolution and Sharpness

Better Vertica I Resolution — Active I /P Conversion The Active I/P (Interlace/Progressive) Conversion system detects slow mov ements more precisely by increasing the range for detecting mov ing-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 Dif f erent I mages on One Screen — **Dual Picture Mode**

You can simultaneously display images from any two different k inds 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 tak e full adv antage of the plasma display's large screen.



Picture-And-Picture mode splits a small picture on the right side of the screen. the screen in half and show different pictures on each half.

Picture-In-Picture mode superimposes a small sub-screer picture ov er a full-screen pictur

#### Up to 4x Enlargement of I mage Zones — Digita I Zoom

Th is 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 giv e your presentations greater impact.

\* Digital Zoom does not work in Dual Picture mode. Images of SXGA resolution or high er 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 multiscreen displays featuring four  $(2 \times 2)$ , nine  $(3 \times 3)$ , or sixteen  $(4 \times 4)$ 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 k ind of display that catch es eyes at sh opping malls and event sites. This function works with component video signals. so you can use enlarged images from DVD and oth er high -quality

sources in your display. \* Th e image-enlarging function operates on v ideo signal and on PC/RGB signal up to XGA mode. Howev er a normal display may not be obtained with some PC/RGB signals



Note: The ambient temperature v aries depending on the installation location. Prov ide sufficient air conditioning for surrounding conditions.



#### **Enhanced Screen Saver Functions**

A variety of screen saver functions help minimise the risk of uneven ph osph or 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 rev ersed. Good for text displays.



- Side Panel Adj ustment: Brigh tens the black
- bands on the sides of the screen when displaying images in the 4: 3 format.



- Wob b ling: Sh ifts the image' s position by sev eral pixels at fixed time intervals.
- Peak Limit ModeL owers the peak brightness level (image contrast) by 30%

### **Energy-Saving Functions**

A broad range of env ironment-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 Of f 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 receiv ed.
- Power Save Mode Reduces the display's brightness.
- Standby Power Save Mode Reduces power consumption when on standby. (Start-up may tak e 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 mai or functions v ia 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 — giv ing you th e k ind of quiet operation that makes for a more pleasant viewing experience. (TH-65 PHD7 and TH-5 0PHD7 feature a noise-suppressing silence design.)

### Vertica | Mounting

Panasonic plasma display can be positioned v ertically to display portrait images and can serv e as an effectiv e storefront electronic signboard.

 Optional Fan Kit f or Vertical Mounting Applications

TY-UPK50HV7 (for TH-50PHD7) TY-UPK42 HV7 (for TH-42 PHD7) \* Operating temperature: 0 to 36



# Multi-Function Slots Accommodate a Host of Uses

### **Multi-Function Slots**

In addition to the fixed input interface, the Panasonic plasma display h as th ree interch angeable 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**



**TY-42TM6A** 



RCA Component Video Termina I Board **TY-42TM6Z** 



## Composite Video Termina | Boa rd mounts in slot 1 or 2)

**TY-42TM6B** 



RCA Composite Video Termina I Board **TY-42TM6V** 



## SDI /HD-SDI Termina | 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.





## HDMI Termina | 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





\* 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 high ly effective and efficient way to offer people the content that they want to see.

#### • Flexible Content Control

Each Controller fits inside the Plasma and h as 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.





\* You can configure a 50-inch display and control system with a slim 4. 6-inch profile by simply combining the TH-50PHD7 Plasma Display and TY-TP50P6-S Touch Panel, then mounting the 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 h ard disk of each PDP controller, ready to be displayed by touch panel operation.

## I nf ormation System Using the Twisted-Pair-Cable Receiver Board

Displaying up-to-date information such as transportation sch edule ch anges, stock mark et conditions, and countless oth er possible subj ects.

#### • Real-Time I nf ormation Bulletins

The use of the CAT5 e twisted-pair cable allows content to be sent from the serv er in real-time, for instant response to events such as sudden changes in transportation schedules or accident information as it becomes av ailable.

• Long-Distance Transmission of High-Quality Video Signals High-resolution XGA images, sound and RS232C control signal are transmitted approximately 150 m ov er a single cable. PDP control signals can also be sent ov er the same cable to allow remote operation of power ON/OFF and oth er functions.

• Higher Signal Quality, Lower Costs, and Easier I nstallation Thin, lightweight CAT5 e twisted-pair cables do a better j ob of preventing signal degradation than coaxial cables. They also reduce costs and shorten the time needed for installation.





\*By mounting the KE0101CRBWTwisted-Pair-Cable Receiver Board (v ideo, audio and control) in the plasma display, images can be sent to the display from an office up to 150 meters away.

\* Using the KE0108 CHDWTwisted-Pair-Cable Splitter, several plasma displays can be connected in a cascade configuration.

## HD-SDI /SD-SDI System f or 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 v ideo production. Simply plug the SDI or HD-SDI terminal board into the function slot.

#### • Larger Screen with Wider Viewing Angle

L arge PDP screens range from 42 to 50 inch es — a big adv antage over the maximum 32-inch screen av ailable with conventional HD-CRT monitor displays for broadcast use. PDP screens also offer a wider v iewing angle and easier, more comfortable monitoring.





## Multi-Screen System Using RGB Active Through Terminal Board

Eye-catch ing h uge display system at sh opping malls and ev ent sites

## • Ea sy-to-Conf ig ure Multi-Screen System at a Low Cost

Th is system shows DVD v ideo and PC data on a giant 9-screen (3 x 3) display. Th is system, which requires no image enlargement dev ice, mak es it possible to h av e a multi-screen system at a low cost.

#### • Easy-to-See I nf ormation

The system displays enlarged XGA images with excellent quality.

## • Various Display Patterns and Powerf ul I mpact

A " control PC" connected th rough a serial interface lets you switch the input sources and control v arious display patterns.



#### • Saves Rack Space

With its thin profile, a PDP takes up less rack space than a CRT monitor.

#### D- • I deal as a Studio Monitor

Wh en the PDP is used as a studio monitor display, its large screen and wide v iewing angle provide superior v iewing for performers and production crew. The PDP also requires little installation space and is easy to mov e. When a 65-inch PDP is used for recording a programme with a liv e audience, it helps create a liv elier, upbeat atmosphere.



# An Unlimited Range of Professional Applications

## I n-Store Display





#### TESCO, London, UK

## **Education**



KONAMI SCHOOL, Tokyo, Japan

School, Addis Ababa, Ethiopia

## I nf ormation



ANA HOTEL TOKYO, Tokyo, Japan



SOGO Department Store, HongKong, China

## Amusement



Les Mills Gym, Dunedin, New Zealand

Cosmos Bank, Taipei, Taiwan



Smooths, Los Angeles, USA

# High Definition Models





TH-50PHD7WK/WS

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



TH-42PHD7WS

TH-42PHD7WK

## TH-42PHD7WK/WS 42-inch (106 cm) diagonal

High Definition Plasma Display

## **TH-65PHD7WK**

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

### Specif ications

	TH-65PHD7WK	TH-50PHD7WK/WS	TH-42PHD7WK/WS	
DI SPLAY				
Screen Size Diagonal	65" (1,645 mm)	50" (1,269 mm)	42" (1,056 mm)	
(Effective) W x H	1,434 x 806 mm	1,106 x 622 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: N	Nore than 160°; Vertical: Mo	re 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)			

	TH-65PHD7WK/WS	TH-50PHD7WK/WS	TH-42PHD7WK/WS	
TERMI NALS				
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	S terminal x 1, Y: 1 Vp-p (75 ohms), C: 0.286 Vp-p (75 ohms)		
Audio Input (for Video)	RCA pl	hono type connectors (L, R)	(1 set)	
PC Input (RGB/Component)	Mini D-sub 15-pin x 1			
	(VGA, SVGA, XGA display & 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/compos	ite (75 ohms); 0.7 Vp-p/non	-composite (75 ohms)	
	PB/B, PR/R: 0.7 Vp-p (75 ohms)			
Audio Input	RCA phono type connectors (L, R) (1 set)			
(for Component/R,G,B)				
Serial (RS232C) D-Sub 9-pin (Female)				

## Dimensions (Unit: mm) 1554 1554 1075.2 TH-65PHD7WK 1434 239.4 10.0 42.5 99 TH-50PHD7WK/WS 1210 1210





# **Standard Definition Models**



#### Specif ications

	TH-42PWD7WK/WS
DI SPLAY	
Screen Size Diagonal	42″ (1,056 mm)
(Effective) 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)

#### Dimensions (Unit: mm)

TH-42PHD7WK/WS TH-42PWD7WK/WS



**Termina Is** 



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

	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	RCA phono type connectors (L, R) (1 set)
(for Component/R,G,B)	
Serial (RS232C)	D-Sub 9-pin (Female)

The characters in red are added for explanation.

# **Options**



#### •: Compatible; -: Not compatible Compatible Models at a Glance 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) • ٠ • ٠ \_ • \_ • TH-42PHD7WK/WS \_ • (WK) • (WS) • • • • — • ٠ TH-42PWD7WK/WS • (WK) • (WS) \_ ٠ \_ • ٠ ۲ ٠ ۲



## Touch panel



## TY-TP50P6-S (for TH-5 0PHD7 ) TY-TP42P6-S (for TH-42 PHD7 /42 PWD7 )

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"

## Deta chable stereo speakers



#### TY-SP65P7W-K (for TH-65 PHD7 WK) Configuration: 2-way, 3-speaker Dimensions (Wx H x D): 100 x 925 x 90 mm

Weigh t: 2.2 kg/each **TY-SP50P5W-K** (for TH-5 0PHD7 WK) Configuration: 2-way, 3-speaker

Configuration: 2-way, 3-speaker Dimensions (Wx H x D): 104 x 724 x 89 mm Weigh t: 2.3 kg/each

**TY-SP42P5W-K** (for TH-42 PHD7 WK, 42 PWD7 WK) Configuration: 2-way, 3-speaker Dimensions (Wx H x D): 104 x 610 x 89 mm Weigh t: 2.1 kg/each



TY-TPEN6 Touch Pen a lso a va ila b le.

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

#### ecifications

•				
	TY-TP50P6-S	TY-TP42P6-S		
Applicable display devices	Panasonic 50 <sup>°</sup> plasma display	Panasonic 42 <sup>°</sup> 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 n	nm top, bottom, right, and left		
Operating modes	Input point, Continuous, Mo	oving, End point detection*1		
Resolution (W x H)	2201 x 1241*1	1833 x 1033*1		
Detection pitch	2.0 x 2.0 mm			
Dutput system	Coordinate output			
Optical elements	276 (H) x 156 (V) 230 (H) x 130 (V)			
Optical element pitch	4.0 x 4.0 mm			
Vinimum stylus	nimum stylus 6.0 x 6.0 mm			
Scan speed	First touch: 30 msec/frame ma	x., Moving: 5 msec/frame max.		
nterface	USB1.1 compliant; Signal: +DATA, -DATA	ATA, VCC, GND; I/F connector: TYPE B		
Panel shape	Integrated flat	banel 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		
Neight (excluding brackets)	4.2 kg	3.5 kg		
Escutcheon (frame) Aluminum				
JSB driver/Applicable OS	Windows® 98SE/2000/ME/XP			
*1 When using the specific dr	iver software.			

\*1 When using the specific driver software.



#### TY-SP50P6W-S (for TH-5 0PHD7 WS)

Configuration: 2-way, 3-speaker Dimensions (Wx H x D): 104 x 724 x 89 mm Weigh t: 2.3 kg/each

## **TY-SP42P6W-S** (for TH-42 PHD7 WS, 42 PWD7 WS)

Configuration: 2-way, 3-speaker Dimensions (Wx H x D): 104 x 610 x 89 mm Weigh t: 2.1 kg/each

# **Peripherals**

## \* Some periph erals are not av ailable 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 multifunction 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.

Applicable displays	Panasonic Plasma Displays
Input channel	1 input system for extension
Output channel	1 system (internal connector) for RGB
	or 1 system (extrenal connector) for Video,
	1 system for sound and 1 system for RS232C
Extension cable	CAT5/CAT5e/CAT6
Video output signal	Analog RGB: 0.7Vp-p (75 ohms); HD, VD: TTL
	Component: Y: 1.0Vp-p (75 ohms) sync signal included
	P <sub>B</sub> , P <sub>R</sub> : ± 0.35Vp-p (75 ohms)
	Video: 1.0Vp-p (75 ohms)
Power supply	Supplied from the plasma display
Power consumption	Approx. 6 W
Specifications (KE020	2CT2W)
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 <sub>B</sub> , P <sub>R</sub> : ± 0.35Vp-p (75 ohms)
	Video: 1.0Vp-p (75 ohms)
Power supply	AC 100 — 240 V, 50/60 hz
Power consumption	Approx. 10 W
Specifications (KE010	8CHDW)
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

## Network ed 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.





**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)

#### Termina Is



#### Specification

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

#### Termina Is

PC sh	ot Mic connector connector connector (RS232C) US 2.0 connector
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 corial interface is connected internally	

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.

17