Preset Input Signals

			Optional Terminal Board												
Sic	ınal name	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Composite Video TY-42TM6B/V	Component Video TY-42TM6A/Z	PC Input TY-42TM6P	RGB (Digital) TY-42TM6D	HDMI TY-F B8HM	BNC Dual Video TY-FB9BD	Composite,Component Video TY-42TM6Y	RGB Active Through TY-42TM6G	SDI TY-FB7SD	HD-SDI TY-FB7HD	SCART TY-FB8SC	PC IN (D-Sub 15-pin) Fixed Terminal
-	NTSC	15.73	59.94	Υ					Y	Y				Υ	_
æ	PAL	15.63	50.00	Y					Y	Y				Y	
300	PAL60	15.73	59.94	Y					Y	Υ				Y	
Composite	SECAM	15.63	50.00	Y					Y	Y				Y	
ပ	Modified NTSC	15.73	59.94	Y					Y	Υ				Y	
	525 (480)/60i	15.73	59.94	'	Υ	Υ			'	Y	Υ	Υ	Υ	'	Υ
	525 (480)/60p	31.47	59.94		Υ	Y	Υ	Υ		Υ	Y	'	'		Y
	625 (575)/50i	15.63	50.00		Y	Y	'	<u> </u>		Y	Y	Υ	Υ		Y
	625 (575)/50p	31.25	50.00		Y	Y	Υ	Υ		Y	Y	I	I		Y
8	750 (720)/60p	45.00	60.00		Y	Y	Y	Y		Y	Y		Υ		Y
Component/RGB	750 (720)/50p	37.50	50.00		Y	Y	Y	Y		Y	Y		ı		Y
ent	1125 (1080)/60i	33.75	60.00		Y	Y	Y	Y		Y	Y		Υ		Y
l od	1125 (1080)/50i	28.13	50.00		Y	Y	Y	Y		Y	Y		Y		Y
E	1125 (1080)/24p	27.00	24.00		Y	Y	ı	ı		Y	Y		Y		Y
ပ	· / ·		48.00		Y	Y				Y	Y		Y		Y
	1125 (1080)/24sF 1125 (1080)/25p	27.00 28.13	25.00		Y	Y				Y	Y		Y		Y
	` / '		30.00		Y	Y				Y	Y		Y		Y
	1125 (1080)/30p	33.75											Y		
	1250 (1080)/50i	31.25	50.00		Υ	Y				Y	Y				Υ
	640 x 400 @70Hz	31.46	70.07		Υ	Y	\ <u>\</u>	V		Y	Y				Y
	640 x 480 @60Hz	31.47	59.94		Y		Υ	Υ		Y	Y				Y
	640 x 480 @72Hz	37.86	72.81			Υ									
	640 x 480 @75Hz	37.50	75.00		Υ	Υ				Y	Υ				Υ
	640 x 480 @85Hz	43.27	85.01		Y	Y	Υ			Y	Y				Y
	852 x 480 @60Hz	31.47	59.94				Y								
	800 x 600 @56Hz	35.16	56.25		Υ	Υ				Υ	Υ				Υ
	800 x 600 @60Hz	37.88	60.32		Y	Υ	Υ			Υ	Υ				Υ
	800 x 600 @72Hz	48.08	72.19		Υ	Υ				Υ	Υ				Υ
	800 x 600 @75Hz	46.88	75.00		Υ	Υ				Υ	Υ				Υ
	800 x 600 @85Hz	53.67	85.06		Υ	Υ	.,			Υ	Υ				Υ
	1024 x 768 @60Hz	48.36	60.00		Y	Υ	Υ			Υ	Υ				Υ
	1024 x 768 @70Hz	56.48	70.07		Υ	Υ				Υ	Υ				Υ
RGB	1024 x 768 @75Hz	60.02	75.03		Υ	Υ				Υ	Υ				Υ
 	1024 x 768 @85Hz	68.68	85.00		Υ	Υ				Υ	Υ				Υ
	1152 x 864 @75Hz	67.50	75.00		Υ	Υ				Υ	Υ				Υ
	1280 x 960 @60Hz	60.00	60.00		Υ	Υ				Υ	Υ				Υ
	1280 x 960 @85Hz	85.94	85.00		Υ	Υ				Υ	Υ				Υ
	1280 x 1024 @60Hz	63.98	60.02		Υ	Υ				Υ	Υ				Υ
	1280 x 1024 @75Hz	79.98	75.03		Υ	Υ				Υ	Υ				Υ
	1280 x 1024 @85Hz	91.15	85.02		Υ	Υ				Υ	Υ				Υ
	1600 x 1200 @60Hz	75.00	60.00		Υ	Υ				Υ	Υ				Υ
	1600 x 1200 @65Hz	81.25	65.00		Υ	Υ				Υ	Υ				Υ
	1066 x 600 @60Hz	37.88	60.32		Υ	Υ	Υ			Υ	Υ				Υ
	1366 x 768 @60Hz	48.36	60.00		Υ	Υ	Υ			Υ	Υ				Υ
	Mac 13 (640 x 480)	35.00	66.67		Υ	Υ				Υ	Υ				Υ
	Mac 16 (832 x 624)	49.72	74.54		Υ	Υ				Υ	Υ				Υ
	Mac 21 (1152 x 870)	68.68	75.06		Υ	Υ				Υ	Υ				Υ

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)



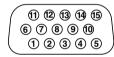
Pin Assignment and Signal Name

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 offcult
9	RI	NC

Transmitting Conditions

······································						
Complied with RS232C						
Start/Stop Synchronous						
Communication						
9600 bps						
Nil						
8 bits						
1 bit						
Nil						

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



Signal Name

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

Supplied Remote Control

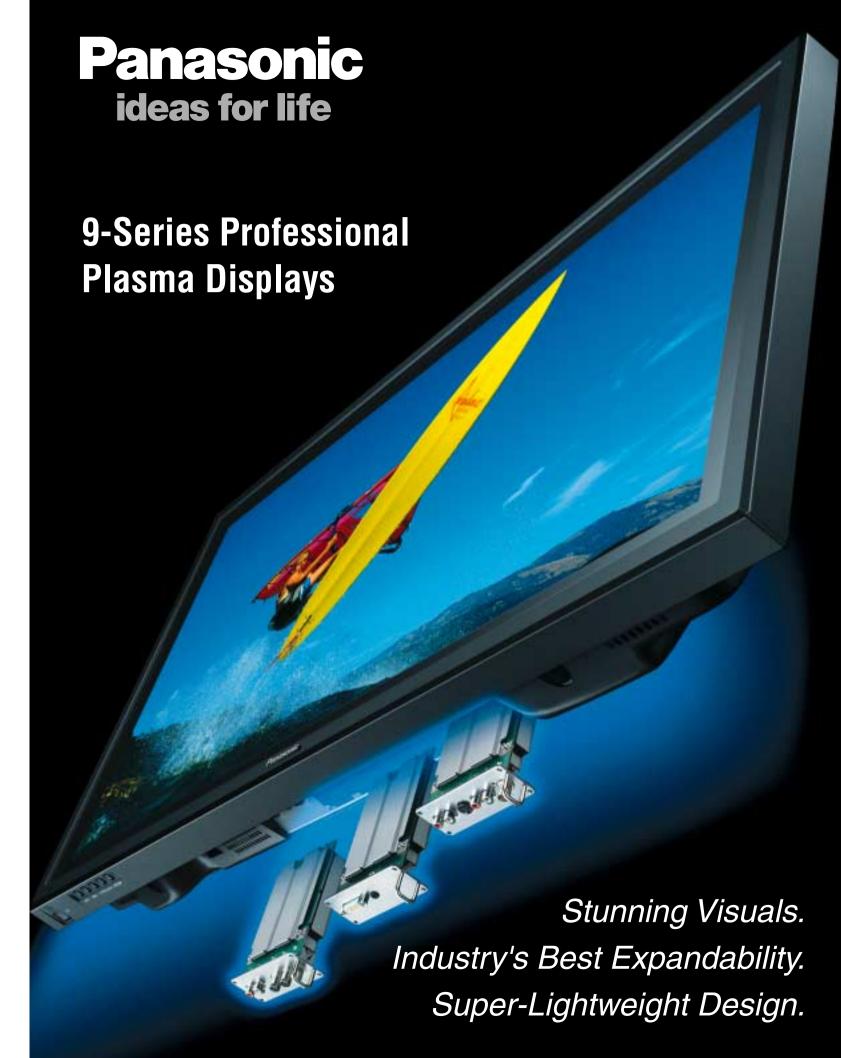


Remote Control Functions Power On Power Off Direct Input Selection (1/2/3/PC) Input Selection Surround On/Off Sound Mute On/Off Volume Up/Down Normalization (N) Position/Action Digital Zoom Dual Picture (MULTI PIP/SWAP/SELECT/MOVE) Sound Set Up Picture Position/Size Aspect

PC Mode Selection Off Timer

ID Number Set

Normal/ID Remote Selection



The Industry Leader in Picture Quality, Versatility and Design

Panasonic's new 9-Series Professional Plasma Displays bring you greater efficiency, better visual quality and more flexible options. The specially designed 9-Series boasts the industry's highest levels of colour gradation and contrast for crisp, clear colours and a stunning visual experience. Each model features an ultra-lightweight, energy-efficient design, with weight reduced by as much as 15%*1 compared with previous models. Exceptionally flexible and versatile, the 9-Series also features our signature multi-function input system that allows use in virtually any AV, PC or interactive environment. Whether used alone, set up as multi-screen systems, or mounted vertically, Panasonic 9-Series Professional Plasma Displays allow you to create a superior, customised system tailored to your professional needs.

Supreme Visual Quality

Panasonic integrated its most advanced imaging technologies to achieve the industry's highest contrast and colour gradation. Shattering conventional image quality standards, our new 9-Series Professional Plasma Displays feature cutting-edge panel improvements and advanced colour management technology for breathtaking pictures that stimulate emotion and captivate any viewer.



Optimum Expandability

With triple function input slots and a variety of terminal boards, Panasonic's 9-Series Professional Plasma Displays let you customise the display to your exact needs. This great expandability combined with the superb image quality to make Panasonic displays a high-performance solution in almost any application.



Events/Entertainment

Visual "magnets" that keep customers entertained, informed and attentive.



Presentations

Powerful visual impact that helps make presentations and meetings a success. Optional touch panel adds interactivity and ease.



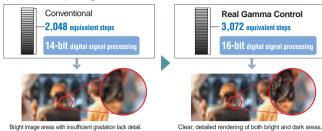
Digital Signage

Turnkey signage solutions that are attention getting and give your message extra punch.

3,072 Equivalent Steps of Gradation for Finely **Nuanced Images**

Real Gamma Control

Instead of using first-stage, basic processing like other brands, Panasonic plasma displays use maximum 16-bit processing, the highest level in the industry, to process video signals all the way up to the gamma correction stage. While other brands use the number of signal bits for calculation. Real Gamma Control reproduces the actual image that appears on the screen at the world's highest level of 3,072 equivalent steps of gradation.

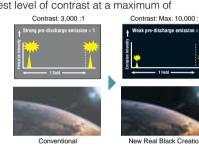


Max.10,000:1 Contrast Provides Superb Depth

New Real Black Creation

Panasonic's original New Real Black Creation technology helps achieve the industry's highest level of contrast at a maximum of

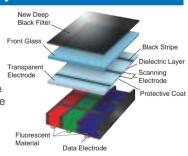
10.000:1 in dark image areas to reproduce exceptionally deep, rich blacks. This system suppresses unwanted graying by reducing the electrical pre-discharge to about 30% of the level of conventional plasma displays.



Excellent Brightness Even in Bright Rooms

Advanced Plasma Display Panel

Use of improved panel materials and enhanced rib and electrode shapes have boosted the efficiency of our plasma display panels. We've also attained a stable, high-speed discharge to Electrode cope with the light intensity in the finely-controlled discharge, These features combine to increase screen brightness by 20%* compared with previous models. *1: For HD models. 5% for SD models.

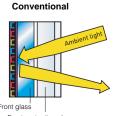


Industry's Best*2 Bright-Area Contrast

New Deep Black Filter

The New Deep Black Filter suppresses light transmittance and slashes the amount of external light reflected. This technology helps these displays achieve the industry's highest contrast ratio of 400:1 when viewed in bright surroundings. Reflection is minimal, so images are clean and distraction-free

*2: As of April 1, 2006

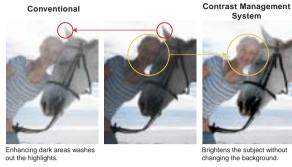




Superior Expressive Detail

Contrast Management System

Original Panasonic technology optimises the contrast by matching it to the images in each scene. Instead of losing gradation by making part of the image too bright or too dark, this new technology applies just the right amount of contrast correction for each part of the scene. The result brings natural beauty to all parts of the scene.



Rich, Vibrant Colours

Advanced 3D Colour Management

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

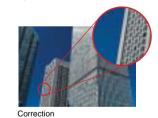


Smooth Diagonal Lines and Sharp, Clear Images

Sub-Pixel Controller

The Sub-Pixel Controller eliminates jagged or blurred diagonal lines and produces smoother edges. Unlike conventional systems in which the three RGB colours are processed together, this advanced system processes each colour separately for crisper, more natural-looking images. Theoretically, this results in a 30% improvement in horizontal resolution compared with conventional systems.

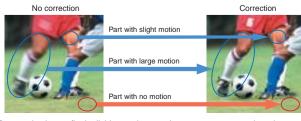




Even Scenes with Lots of Motion are Clear

Motion Pattern Noise Reduction

The Motion Pattern Noise Reduction circuit detects motion patterns that tend to generate noise, and makes adjustments to maximise image quality. It helps produce clean, sharp images with outstanding gradation, even in scenes with considerable motion. The result is a noticeable improvement in moving picture quality.



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

Advanced Usability

Powerful Multi-Screen Display Systems

Advanced Image-Enlarging Function

This built-in image-enlarging function makes it easier to set up multi-screen systems with as many as 16 displays (4x4 configuration).

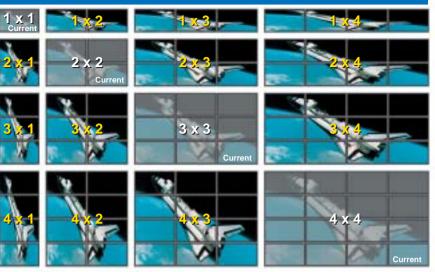
A new function lets you enlarge the image up to 4x vertically and horizontally independently, making it easy to set up a multi-screen system with up to four displays arranged either vertically or horizontally. For example, expand the image horizontally to 4x and leave it unchanged vertically, and you can create a system with four units side-by-side. This is ideal in bank lobbies, airports and other places where you want a large display system that can be read from a distance.

Thanks to the ID control function, you can use the standard remote control unit to control multiple panels

There is also a mode that displays a full-screen image. including the edges (the width of the frame) of the display panel. This is especially suitable for displaying text information, since no words are hidden by the frame.







Note: Image-enlarging function 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. Advanced image-enlarging function is not offered on the TH-65PHD8 series or TH-42PS9 series

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

Easy Installation

Ultra-Lightweight Cabinet

Panasonic's advanced PDP production technology made it possible to reduce the plasma panel glass thickness from 2.8 mm to 1.8 mm.

This reduces overall weight by up to 15%*3 compared with previous models, making installation easier than ever. Using less glass benefits the environment, too. *3: 42-inch HD model.

Weight Co	Weight Comparison							
	New	Conventional	Reduction					
50" HD	37.0 kg	43.0 kg	14%					
42" HD	27.0 kg	31.5 kg	15%					
42" SD	26.0 kg	29.5 kg	12%					

Advanced Dual Picture Mode

Panasonic plasma displays feature the Advanced Dual Picture Mode in addition to the conventional Dual Picture Mode. This mode lets you overlav a video image onto a full-screen PC image. For example, vou 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. Playing back the audio from the sub-source can be useful in teleconferencing, for example.







Note: Dual Picture Mode cannot handle the following combinations of two analogue signals Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) PC (RGB). The Advanced Dual Picture Mode may not work properly with some video

Remote System Monitoring

In addition to the conventional display control command and power supply/input selection check command, Panasonic plasma displays feature a monitor command that lets you check the signal from a distant location. In conventional systems, you had to install a monitoring camera to check the images displayed on an advertising display panel or digital signage system. This monitor command, on the other hand, lets you monitor images by simply connecting a PC via a serial cable.

Long Service Life of 60,000 Hours

The inner panel improvements give Panasonic plasma panels a long service life of approximately 60,000 hours* even with their increased

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

Vertical Mounting

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

Note: When using the display vertically, set it so the power button is on top.



5

Enhanced Screen Saver Functions

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 or according to the detected screen condition.
- 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

• 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

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

Super Quiet Operation

Our "silence engineering" has eliminated the need for a fan on SD models and dramatically suppressed the fan noise on HD models, to give you the kind of quiet operation that makes for a more pleasant viewing experience.

Industry's Best Expandability

Multi-Function Slots

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



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

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 display connected to the PC OUT terminal. This connectability adds convenience when configuring a multi-screen system.

The characters in red are added for explanation

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

HDMI Terminal Board (mounts in slot 1 or 2)

TY-FB8HM



HDMI

• Enables fully digital connection of signals from HDMI-compatible DVD players and other digital equipment for blur-free images with no colour bleeding.

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

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

BNC Composite Video Terminal

RCA Composite Video Terminal

Board (mounts in slot 1 or 2)

SCART Terminal Board

(mounts in slot 1 or 2)

TY-FB8SC

TY-42TM6V

Board (mounts in slot 1 or 2)

TY-42TM6B

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

TY-FB9BD*1



*1: This board cannot be used on the TH-65PHD8EK/BK

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

TY-42TM6Y



Ir Through Terminal Board (mounts in any slot)

TY-FB9RT*



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

SDI Terminal Board TY-FB7SD

HD-SDI Terminal Board TY-FB7HD

Note: Only one terminal board can be used per display. Also

*1: This board cannot be used on the TH-65PHD8EK/BK.

BNC Component Video Terminal Board (mounts in any slot)

TY-42TM6A



RCA Component Video Terminal Board (mounts in any slot)

TY-42TM6Z



PC Input Terminal Board



Lets you display images from two or more PCs.

* Does not support the DPMS function

(mounts in any slot)

TY-42TM6P



· 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					

Plasma System Solutions

Simple Multi-Screen System

Using the RGB Active Through Terminal Board

You can easily configure a multi-screen system by using the RGB Active Through Terminal Board with the display's advanced image-enlarging function. This lets you disseminate information in a timely manner by updating the content over a network. You can also connect a DVD player to display background video images. This system is ideal for places where many people gather, such as business complexes and event venues.

• Image Displays with Eye-Catching Impact

The advanced image-enlarging function, with its variable horizontal and vertical display capability, creates displays that are effective on stages, near entranceways, and virtually anywhere.

Simple System Configuration

Multi-screen systems generally require matrix switchers, image enlargers and other equipment, together with complicated wiring. With the RGB Active Through Terminal, you simply connect each display with a cable to build a large-screen multi-display system. Combined with the light weight of the displays, this makes it super easy to configure a highly effective system.

• Remote Control Over a Network

Because the content can be updated by using an existing network, the information being displayed can be quickly and easily updated*1. Monitoring commands also let you check the display status from a remote location.



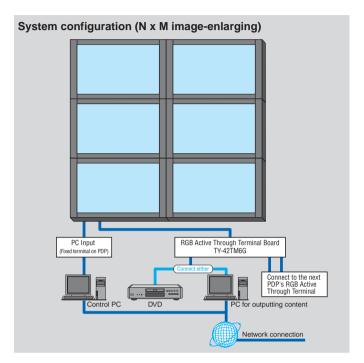
*1: You will need to procure control software.

Note: The advanced image-enlarging function for N x M multi-screen system is not offered on the TH-65PHD8 series or TH-42PS9 series.



Total Display Control with a Single Remote

The remote control that comes with the display is equipped with a "Display ID Control" function that allows you to control up to nine displays with the one remote.



Effective Discussion System

Using the Ir Through Terminal Board, BNC Dual Video Terminal Board, and Touch Panel

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

• Supports a Wide Variety of Video Sources

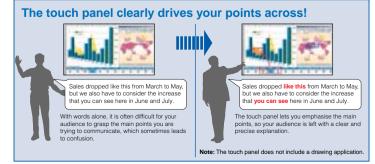
The BNC Dual Video Terminal Board and Component Video Terminal Board enable connection to various video devices. You can display images from VCRs, S-VHS VCRs, DVD players, and more.

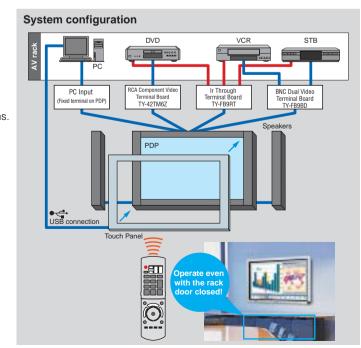
Keeps the Room Neat and Attractive

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

Clear Visual Communications

With the touch panel, you can write opinions directly onto the screen. Make your discussions more precise by clearly notating the materials displayed





HD Models

SD Model













TH-42PS9ES/BS

TH-65PHD8EK/BK 65-inch (165 cm) diagonal High Definition Plasma Display

TH-50PH9E/B

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

TH-42PH9E/B

TH-42PH9EK/BK

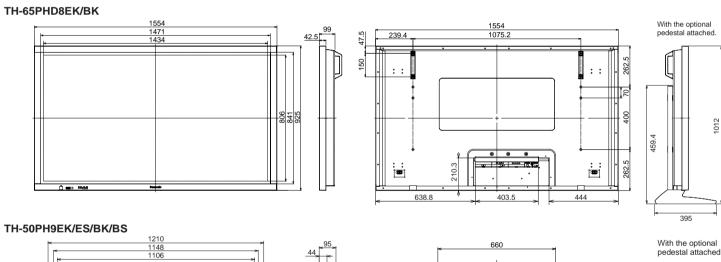
42-inch (106 cm) diagonal High Definition Plasma Display

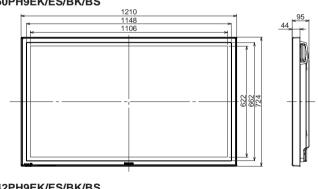
TH-42PS9E/B42-inch (106 cm) diagonal Progressive Wide Plasma Display

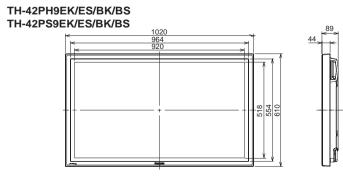
Specifications

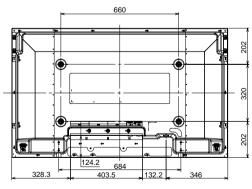
	oo no naama biopia,	00 115 1 10	oma Diopiay		oma Diopiay	4L 0D 110		
Continental Model	TH-65PHD8EK	TH-50PH9EK	TH-50PH9ES	TH-42PH9EK	TH-42PH9ES	TH-42PS9EK	TH-42PS9ES	
UK Model	TH-65PHD8BK	TH-50PH9BK	TH-50PH9BS	TH-42PH9BK	TH-42PH9BS	TH-42PS9BK	TH-42PS9BS	
Cabinet Colour	Black	Black	Silver	Black	Silver	Black	Silver	
DISPLAY								
Screen Size (Diagonal)	65-inch	50-inch 42-inch		inch	42-inch			
Aspect Ratio	16:9	16:9		16:9				
Effective Display Area (W x H)	1,434 x 806 mm	1,106 x	622 mm	920 x 5	518 mm	920 x 5	518 mm	
Resolution (H x V)	1,366 x 768 pixels	1,366 x 7	768 pixels	1,024 x 7	768 pixels	852 x 4	852 x 480 pixels	
Pixel Pitch (H x V)	1.050 x 1.050 mm		0.810 mm		D.675 mm		1.080 mm	
Contrast Ratio (Bright-area*1)	3,000:1 (350:1)			Max. 10,00	00:1 (400:1)	-		
Gradation	2,048 steps (equivalent)			3,072 steps	(equivalent)			
SIGNAL COMPATIBILITY	, , , , , , , , , , , , , , , , , , , ,				` ' '			
Scan Rate		Horizontal	frequency: 15 — 110 kł	Hz; Vertical frequency: 4	18 —120 Hz			
PC Signal Compatibility	VGA, SVGA, XGA		/GA, XGA		/GA, XGA	V	GA	
	SXGA, UXGA (Compressed)		. (Compressed)		. (Compressed)	SVGA, XGA, SXGA, I	JXGA (Compressed)	
Supported Video Standards	(ECAM. Modified NTSC	(**************************************	oran, nan, onan, c	mariii (Goiiipi Gooda)	
Video Signal Compatibility	525 (480)/60i, 60p:	625 (575)/50i, 50p; 750	, ,, .	- ,	IsF. 25p. 30p SMPTE	274M. 1250 (1080)/50i		
INPUT/OUTPUT	020 (100 <i>)</i> /1001, 00p;	520 (0.0), 001, 00p, 100	(120)/000, 000, 1120	(1000)/001, 001, 210, 21	, 20р, 00р О 12	27 1111, 1200 (1000)/001		
Fixed Terminals								
PC IN		Mini D-sub 15nin	x 1; Analogue RGB/Co	mnonent. Plug & Play	(VESA DDC 1/2B)			
AUDIO IN		Willin D Gub Topin	M3 ja		(120/1000 1/20)			
SERIAL		n-s	sub 9-pin x 1, External c		tihle			
Interchangeable Terminals			oub o piii x 1, Extornar o	ontroi, 110 2020 00mpa	ubio			
Slot1	CVBS In/Out (BNC x 2, Composite),		CVRS In (RNC v 1 Composite) /	Audio In (L/R) (RCA nin	iack v 2)·		
Sioti	S-Video In (S-Video x 1),							
	Audio In (L/R) (RCA pin jack x 2)		O VIU	co iii (o video x 1), Ad	uio iii (L/ii) (iioA pio ja	ok x Z)		
Slot2	Vacant	Vacant		Va	cant	Va	cant	
Slot3	Vacant	-	cant		cant	-	cant	
ELECTRICAL	vacant	va.	cant	V a	carre	y a	Juni	
Power Requirements	220 - 240 V AC, 50 Hz/60 Hz	220 - 240 V A	.C, 50 Hz/60 Hz	220 - 240 V A	.C, 50 Hz/60 Hz	220 - 240 V A	C, 50 Hz/60 Hz	
Power Consumption	615 W		0 W		0 W		0, 30 112/00 112 0 W	
Power off condition	0.35 W		2 W		2 W		2 W	
Stand-by condition	Save Off: 0.9 W. Save On: 0.7 W		, Save On: 0.5 W		, Save On: 0.6 W		. Save On: 0.6 W	
SOUND	Save Oil. 0.5 W, Save Oil. 0.7 W	Jave OII. U.7 W	, Jave OII. U.J W	Jave OII. 0.0 vv	, Jave OII. U.U VV	Jave OII. U.U W	, Jave OII. U.U W	
Audio Output	20 W [10 W + 10 W] (10 % THD)			16 /// 01 /// 0	W] (10 % THD)			
MECHANICAL	20 W [10 W + 10 W] (10 % 111b)			10 W [0 W + 0	VV] (10 /0 111D)			
Dimensions (W x H x D*2)	1,554 x 925 x 99 mm	1 210 v 75	24 x 95 mm	1 020 v 61	10 x 89 mm	1 020 v 61	0 x 89 mm	
Weight (approx.)	78.0 kg		0 kg		0 ka		0 kg	
OPERATING ENVIRONMENT	7 U.U NY	37.	o ng	21.	o ng		u ny	
Temperature			UoC.	- 40°C				
Humidity								
Altitude 0 — 2.400 m			20% — 80% (Non condensation) 0 — 2.800 m					
RADIATION REGULATIONS	0 — 2,400 III		0-2	,000 111		0-3	,000 m	
HADIATION REGULATIONS		TNE	5022 Class-B, EN55024	ENGIONO 2 2 ENGIO	10.2.2			
SAFETY STANDARDS		END	JUZZ GIASS-D, EINJOUZ4	, ENUTUUU-3-2, ENUTUU	JU-3-3			
SAFETT STANDARDS			ENICOOC	E Vor 7				
INCLUDED ACCESSORIES			EN6006	65 Ver. 7				
INCLUDED ACCESSORIES			0.1.11					
*1: Massurad at 100 luy	<u> </u>	Remote control unit, UM	3 Dattery X 2, Fixing ban	u x z, AU power cord, (perating instruction be	JUK		

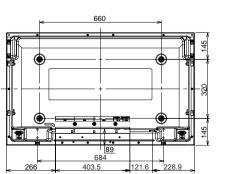
Dimensions (Unit: mm)

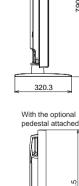








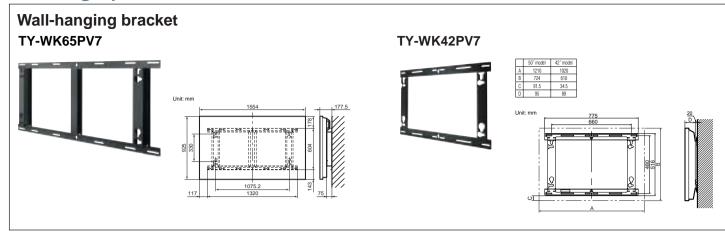


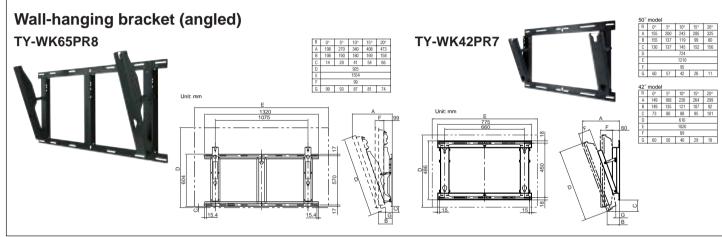


320.3

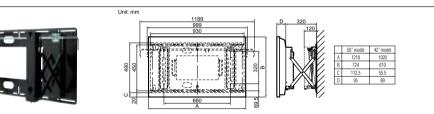
^{*1:} Measured at 100 lux.
*2: Exclusive of protruding portion

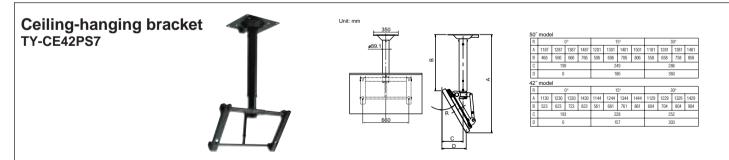
Mounting Options

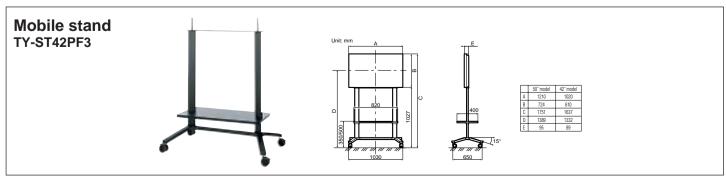


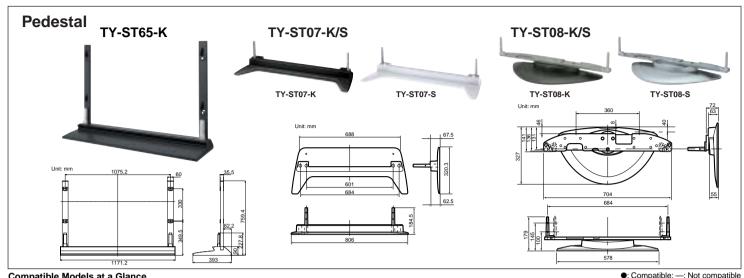


Wall-hanging bracket (drawer type) TY-WK42DR1









Compatible Models at a Glance TH-65PHD8 series TH-50PH9 series TH-42PH9 series, TH-42PS9 series

Touch Panel



TY-TP65P8-S (for TH-65PHD8 series)

TY-TP50P8-S (for TH-50PH9 series)

TY-TP42P8-S (for TH-42PH9 series, TH-42PS9 series)

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"



	TY-TP65P8-S	TY-TP50P8-S	TY-TP42P8-S			
Applicable display devices	Panasonic 65" plasma display	Panasonic 50" plasma display	Panasonic 42" plasma display			
Detection system	Infrared ray interruption					
Panel aperture (W x H)	1455 x 812 mm	1129 x 645 mm	945 x 531 mm			
Detection range (W x H)	1440 x 812 mm	1104 x 620 mm	920 x 513 mm			
Effective detection range	Above detect	ion range +1.0 mm top, bottom,	right, and left			
Operating modes	Input p	oint, Continuous, End point dete	ction *1			
Resolution	2881 (H) x 1625 (V) *1	2209 (H) x 1241 (V) *1	1841 (H) x 1033 (V) *1			
Detection pitch		2.0 x 2.0 mm				
Output system		Coordinate output				
Optical elements	361 (H) x 204 (V)	277 (H) x 156 (V)	231 (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: 45 msec/frame max.	First touch: 30 r	nsec/frame max.			
	Moving: 10 msec/frame max.	Moving: 8 msec/frame max.				
Interface	USB1.1 compliant; Si	gnal: +DATA, -DATA, VCC, GND;	I/F connector: TYPE B			
Panel shape		Flat panel				
Dimensions (W x H x D) *2	1598 x 951 x 72 mm	1257 x 773 x 69 mm	1073 x 659 x 69 mm			
Weight (Except bracket)	5.0 kg	5.8 kg	5.0 kg			
Escutcheon (frame)	Aluminum	Aluminum	, ABS rosin			
Power supply (voltage)	DC + 5	V ±10% (Supplied from USB bus	power)			
Electric current	DC + 5 V max. 400 mA					
*1: When using the specific	driver software.	·				

- *2: Except bracket, inclusive of protruding portion.
- Note: The touch panel does not include a drawing application.

Anti-Glare Filter

TY-AR65P9W (for TH-65PHD8 series) TY-AR50P9W (for TH-50PH9 series)

Weight: 2.0 kg/each

Note: You cannot mount both a Touch Panel (TY-TP65P8S) and an Anti-Glare Filter (TY-AR65P9W) on the TH-65PHD8 series at the same time.

Detachable Stereo Speakers



TY-SP65P7W-K (for TH-65PHD8EK/BK) Configuration: 2-way, 3-speaker Dimensions (W x H x D): 100 x 925 x 90 mm Weight: 2.2 kg/each

TY-AR42P9W (for TH-42PH9 series, TH-42PS9 series)

TY-SP50P8W-K (for TH-50PH9EK/BK) TY-SP50P8W-S (for TH-50PH9ES/BS) Configuration: 2-way, 3-speaker Dimensions (W x H x D): 107 x 724 x 88 mm

TY-SP42P8W-K (for TH-42PH9EK/BK, 42PS9EK/BK) TY-SP42P8W-S

(for TH-42PH9ES/BS, 42PS9ES/BS)

Configuration: 2-way, 3-speaker Dimensions (W x H x D): 107 x 610 x 88 mm Weight: 2.0 kg/each