

**Panasonic**  
ideas for life

50-inch **TH-50PD12U**

42-inch **TH-42PD12U**

High Definition Plasma Displays

# Professional Plasma Displays Ideal for Digital Signage Use



## Main Features

Expressive images catch widespread attention with rich gradation and outstanding color reproduction.

Durability is assured by an impact-resistant front glass pane and a panel lifetime of approx. 100,000 hours.

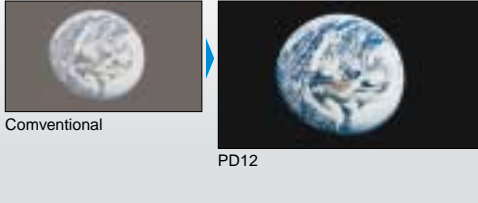
These entry models offer excellent cost performance while maintaining advanced performance and functions.

# Deep Blacks, Rich Gradation and a Wide Color Gamut Produce Truly Eye-Catching Images

## Crisp Images with a High Contrast Ratio of 30,000:1\*1

Original image-processing technologies have enabled a high contrast ratio of 30,000:1\*1. This produces robust blacks that give images greater realism and depth.

\*1: Dark-area contrast that can be displayed simultaneously on the same screen.



## Rich, Expressive Gradation

The world's highest\*2 level maximum 18-bit digital signal processing renders images with the equivalent of 5,120 steps of gradation, while suppressing noise and minimizing blocked shadows.

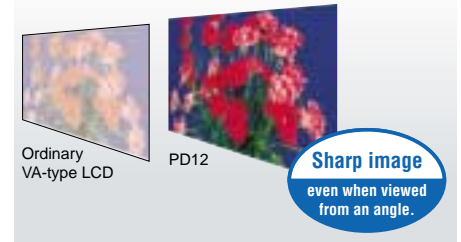
\*2: For plasma displays as of March 19, 2009 (according to a Panasonic survey).

## Colors that are Faithful to the Original

This wide color gamut exceeds even the color reproduction range of the HDTV standard (ITU-R, BT.709). The colors that it produces are more faithful to the original and more natural.

## Images are Beautiful even When Viewed from an Angle

These self-illuminating plasma displays provide large-screen images in all their natural beauty. The images are also sharp and crisp regardless of the viewing angle.



# Long-Life Durability, Low Running Costs, and a Lead-Free Ecological Design

## Tough Body Withstands Use in Public Spaces

Plasma displays feature a pane of tempered glass on the front. This front glass does not break easily even when an external impact is applied.



## Long Life\*3 of approx. 100,000 Hours

The Panasonic Professional Plasma Display panel offers a long life\*4 of approximately 100,000 hours. And because there are hardly any consumables\*4 that need to be replaced periodically, running costs are low.

\*3: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

\*4: The heat radiating fan is a consumable part.

Lower costs with almost no parts replacement required.



## The World's First\*5 Lead-Free Plasma Display Panels

Panasonic proclaimed a "lead-free" design in all plasma display panels from 2006 onward. It also eliminated the use of polyvinyl chloride in internal wiring, all as a part of its active promotion of environmentally friendly manufacturing.

\*5: Announced on November 2, 2006. Achieved lead-free designs in all 140 models for worldwide markets.

# Advanced Functions Help Create Effective Digital Signage

## Versatile Image Display Functions

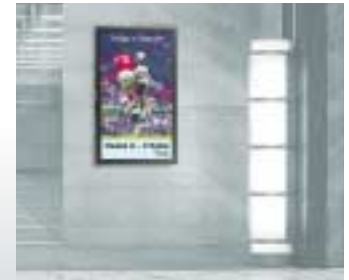


## A Host of Utilities

- Remote System Monitoring ● Tamper-Resistant Settings
- Energy-Saving Functions ● Screen Saver Functions ● Anti-Glare Functions

## Vertical Mounting

Panasonic professional plasma displays can be positioned vertically to display portrait images, allowing them to serve as effective storefront signboards.

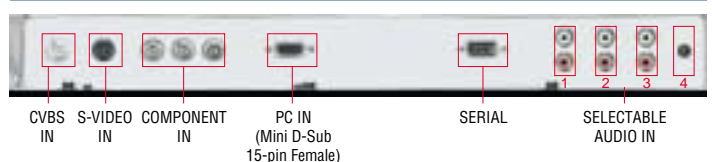


Specifications		
	TH-50PD12U	TH-42PD12U
Screen Size (Diagonal)	49.9-inch	41.6-inch
Aspect Ratio	16:9	16:9
Effective Display Area (W x H)	43.6" x 24.5" (1,106 x 622 mm)	36.3" x 20.4" (922 x 518 mm)
Resolution (H x V)	1,366 x 768 pixels	1,024 x 768 pixels
Pixel Pitch (H x V)	0.810 x 0.810 mm	0.900 x 0.675 mm
Contrast Ratio	30,000:1	
Gradation	5,120 steps (equivalent)	
Input/Output	CVBS	
CVBS	CVBS x 1 [1.0 Vp-p, 75 ohms]	
AUDIO IN 1	RCA pin jack x 2 [0.5 Vrms]	
S-VIDEO IN	Mini Din 4-pin x 1 [Y: 1.0 Vp-p, 75 ohms; C: 0.286 Vp-p, 75 ohms]	
AUDIO IN 2	RCA pin jack x 2 [0.5 Vrms]	
COMPONENT IN	BNC x 3 [Y/G: with sync 1.0 Vp-p, 75 ohms; P/B, P/R: 0.7 Vp-p, 75 ohms]	
AUDIO IN 3	RCA pin jack x 2 [0.5 Vrms]	
PC IN	Mini D-sub 15pin x 1; Analog RGB/Component; Plug & Play (VESA DDC 2B)	
AUDIO IN 4	M3 jack x 1	
SERIAL	D-sub 9-pin x 1, External control, RS-232C compatible	
Power Requirements	110 - 127 V AC, 50 Hz/60 Hz	110 - 127 V AC, 50 Hz/60 Hz
Power Consumption	365 W	255 W
Power off condition	0.2 W	0.2 W
Stand-by condition	Save OFF: 0.9 W, Save ON: 0.4 W	Save OFF: 0.9 W, Save ON: 0.4 W
Audio Output	16 W [8 W + 8 W] (10 % THD)	
Dimensions (W x H x D)	47.7" x 28.5" x 3.8" (1,210 x 724 x 95 mm)	40.2" x 24.1" x 3.5" (1,020 x 610 x 89 mm)
Weight (approx.)	70.6 lbs. (32 kg)	50.7 lbs. (23 kg)

## Peripherals & Mounting Options

Pedestal	Wall-hanging bracket (vertical)	Wall-hanging bracket (angled)
<b>TY-ST08-K</b>	<b>TY-WK42PV7</b> * Also usable for vertical mounting	<b>TY-WK42PR7</b>
Wall-hanging bracket (drawer type)	Ceiling-hanging bracket	Mobile stand
<b>TY-WK42DR1</b>	<b>TY-CE42PS7</b>	<b>TY-ST58PF10</b>
Detachable stereo speakers	Touch panel (Infrared Retroreflection-Detection System)	Anti-glare filter
<b>TY-SP50P8W-K</b> (for 50" model)	<b>TY-TP50P10S</b> (for 50" model)	<b>TY-AR50P12W</b> (for 50" model)
<b>TY-SP42P8W-K</b> (for 42" model)	<b>TY-TP42P10S</b> (for 42" model)	<b>TY-AR42P12W</b> (for 42" model)

## Standard-Equipped Terminals



Specifications are subject to change without notice.  
Panasonic Corporation April, 2009 TH-CRPD\_U01