

Panasonic

ideas for life

50-inch class **TH-50PH30U**

42-inch class **TH-42PH30U**

High Definition Plasma Display

Superb Image Performance for More Expressive Signage Plasma Displays with Durable, Energy-Saving Designs



Environmentally Friendly Panel

A new energy-saving electrode structure lowers rated power consumption by approximately 35%.^{*1}

Long Panel Life

A durable design combines a long-lasting panel boasting a lifespan of approximately 100,000 hours^{*2} with a rugged front glass.

High Contrast Ratio

Native contrast^{*3} of 2,000,000:1 reproduces beautiful images with tight, rich blacks. High moving resolution also ensures crisp motion images.

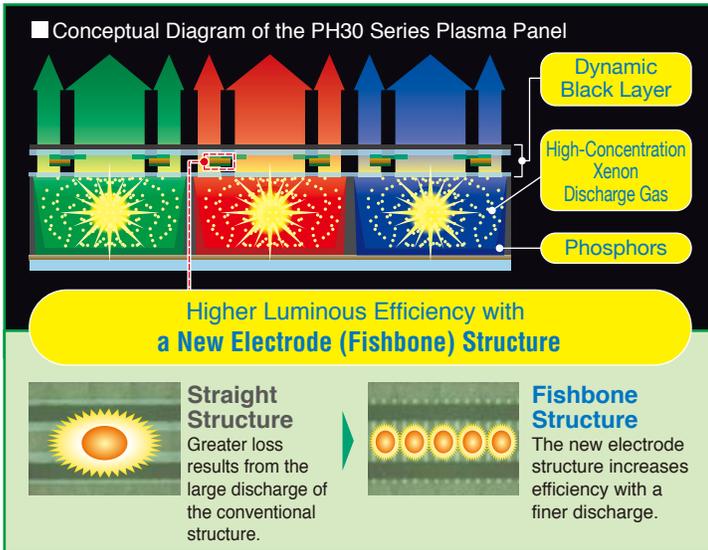
^{*1}: Comparing the new 42-inch model with the 42-inch model in the PH20 Series.

The rated power consumption of the new 50-inch model is lowered by approximately 30%.

^{*2}: 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.

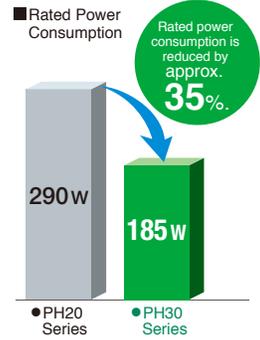
^{*3}: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.

Higher Luminous Efficiency Greatly Reduces Power Consumption



Energy-Saving Design

The higher luminous efficiency of the plasma display panel lowers the rated power consumption approximately 35% (for the 42-inch model; approximately 30% for the 50-inch model) compared to the previous PH20 Series. The plasma display also lowers power consumption during dark scenes, to achieve an average power consumption*1 of approximately 150 W (for the 42-inch model) during operation.



Long Lifespan of Approximately 100,000 Hours*2

Produces crisp, beautiful images for a long period of time.

The World's First*3 Lead-Free Plasma Display Panels

All new models from 2006 onward have featured lead-free plasma panels. The use of polyvinyl chloride in internal wiring has also been prohibited in our ecological approach to manufacturing.



A Tough, Impact-Resistant Display

Durable glass on the front surface of the display.

Because the panel is designed to resist cracking in the event of an external impact, it is ideal for installation in public spaces, such as walkways and halls, where many people pass by. Also, since there is no need for a protective covering for the front surface when a touch-panel configuration is used, there is no image degradation.



Crisp, High-Contrast, Lifelike Images

Images with excellent depth.

Original Panasonic image processing technology has achieved a 2,000,000:1*4 native contrast.

This reproduces crisp images with natural depth and textures.



Clear rendering of even fast-moving images.

The plasma display's excellent moving-picture resolution*5 reproduces even fast-moving images clearly and precisely while suppressing afterimages. This results in stunning, high-resolution images.



Specifications

	TH-50PH30U	TH-42PH30U
Screen Size (Diagonal)	49.9-inch (1,268 mm)	41.6-inch (1,057 mm)
Aspect Ratio	16:9	16:9
Effective Display Area (W x H)	43.5" x 24.4" (1,105 x 622 mm)	36.2" x 20.4" (921 x 518 mm)
Resolution (H x V)	1,024 x 768 pixels	1,024 x 768 pixels
Pixel Pitch (H x V)	1.080 x 0.810 mm	0.900 x 0.675 mm
Contrast Ratio	2,000,000:1	
Gradation	5,120 steps (equivalent)	
Moving Picture Resolution	900 lines	
Panel Life*2	Approx. 100,000 hours	
Input	VIDEO IN	BNC x 1 [1.0 Vp-p, 75 ohms]
	AUDIO IN (L/R)	RCA pin jack x 1 [0.5 Vrms]
	COMPONENT IN	BNC x 3 [Y/G: with sync 1.0 Vp-p, 75 ohms; B/Pa/Ca, R/Pa/Cr: 0.7 Vp-p, 75 ohms]
	AUDIO IN (L/R)	RCA pin jack x 1 [0.5 Vrms]
	HDMI IN	HDMI TYPE A connector x 1
	DVI-D IN	DVI-D 24-pin x 1; DVI Revision 1.0 compatible with HDCP 1.1
	AUDIO IN (L/R)	M3 jack x 1 [0.5 Vrms]
	PC IN	Mini D-Sub 15pin x 1 [Y/G: with sync 1.0 Vp-p, 75 ohms, without sync 0.7 Vp-p, 75 ohms], Plug & Play (VESA DDC 2B) B/Pa/Ca, R/Pa/Cr: 0.7 Vp-p, 75 ohms, HD/VD: 1.0-5.0 Vp-p (high impedance)
	AUDIO IN	M3 jack x 1 [0.5 Vrms]
	SERIAL	D-Sub 9-pin x 1 (External control terminal), RS-232C compatible
Power Requirements	110-127 V AC, 50 Hz/60 Hz	110-127 V AC, 50 Hz/60 Hz
Power Consumption	245 W	185 W
On Mode Average Power Consumption*1	197 W	150 W
Power off Condition	0.2 W	0.2 W
Stand-by Condition	0.4 W	0.4 W
Audio Output	16 W [8 W + 8 W] (10% THD)	16 W [8 W + 8 W] (10% THD)
Dimensions (W x H x D)	47.7" x 28.5" x 3.5" (1,210 x 724 x 89 mm)	40.2" x 24.1" x 3.5" (1,020 x 610 x 89 mm)
Weight (approx.)	68.4 lbs. (31.0 kg)	53.0 lbs. (24.0 kg)

A Wide Range of Functions

- Remote System Monitor ● Audio Input Selection
- Nanodrift Saver ● Screensaver
- Tamper-Resistant Settings ● Energy-Saving Functions

Peripherals & Mounting Options

Pedestal TY-ST20-K	Wall-hanging bracket (vertical) TY-WK42PV20 * For portrait mounting.	Wall-hanging bracket (angled) TY-WK42PR20
Ceiling-hanging bracket TY-CE42PS20	Mobile stand TY-ST58PF20	
Detachable stereo speakers TY-SP50P8W-K (for 50" model) TY-SP42P8W-K (for 42" model)	Touch panel (Infrared Retroreflection-Detection System) TY-TP50P10S (for 50" model) TY-TP42P10S (for 42" model)	Anti-glare filter TY-AR50P12W (for 50" model) TY-AR42P12W (for 42" model)

*1: Based on IEC 62087 Ed.2 measurement method.

*2: 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.

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

*4: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.

*5: According to the method for measuring moving-picture resolution to indicate motion-image display performance that was developed by the Advanced PDP Development Centre Corporation (APDC).