

Panasonic

ideas for life

50-inch **TH-50PH30ER**

42-inch **TH-42PH30ER**

High Definition Plasma Display

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



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



NANODRIFT

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.

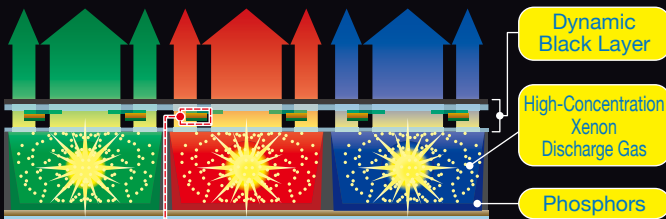
^{*1}: Comparing the new 42-inch model with the 42-inch model in the PH20 Series.

^{*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.

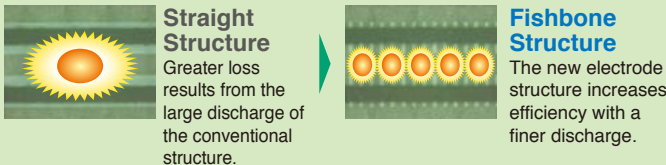
^{*3}: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.

Higher Luminous Efficiency Greatly Reduces Power Consumption

Conceptual Diagram of the PH30 Series Plasma Panel

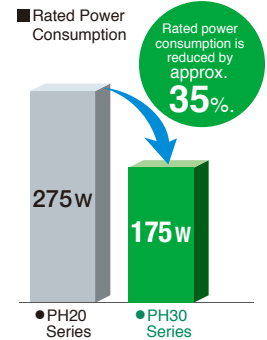


Higher Luminous Efficiency with a New Electrode (Fishbone) Structure



Energy-Saving Design

The higher luminous efficiency of the plasma display panel lowers the rated power consumption approximately 35% (for the 42-inch model) compared to the previous PH20 Series. The plasma display also lowers power consumption during dark scenes, to achieve an average power consumption¹ of approximately 150 W (for the 42-inch model) during operation.



Long Lifespan of Approximately 100,000 Hours²

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

The World's First³ 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.

eco ideas

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.



● Installation Image

Crisp, High-Contrast, Lifelike Images

Images with excellent depth.

Original Panasonic image processing technology has achieved a 2,000,000:1⁴ native contrast.

This reproduces crisp images with natural depth and textures.



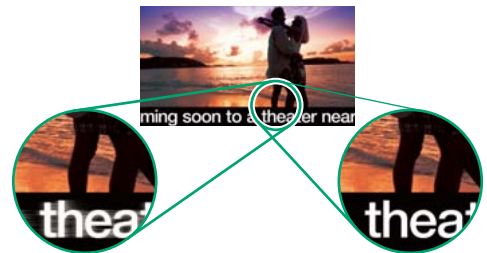
● Conventional Image



● PH30 Series Image

Clear rendering of even fast-moving images.

The plasma display's excellent moving-picture resolution⁵ reproduces even fast-moving images clearly and precisely while suppressing afterimages. This results in stunning, high-resolution images.



● Moving-Picture Resolution: 600-line Image

● Moving-Picture Resolution: 900-line Image

Specifications

	TH-50PH30ER	TH-42PH30ER
Screen Size (Diagonal)	50-inch (1,268 mm)	42-inch (1,057 mm)
Aspect Ratio	16:9	16:9
Effective Display Area (W x H)	1,105 x 622 mm	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/Pb/Ce, R/Pn/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/Pb/Ce, R/Pn/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	220-240 V AC, 50 Hz/60 Hz	220-240 V AC, 50 Hz/60 Hz
Power Consumption	230 W	175 W
On Mode Average Power Consumption ¹	195 W	150 W
Power off Condition	0.3 W	0.3 W
Stand-by Condition	0.5 W	0.5 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)	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm
Weight (approx.)	31.0 kg	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	Wall-hanging bracket (vertical)	Wall-hanging bracket (angled)
TY-ST20-K	TY-WK42PV20 <small>* For portrait mounting.</small>	TY-WK42PR20
Ceiling-hanging bracket	Mobile stand	
TY-CE42PS20	TY-ST58PF20	
Detachable stereo speakers	Touch panel (Infrared Retroreflection-Detection System)	
TY-SP50P8W-K (for 50" model)	TY-TP50P10S (for 50" model)	
TY-SP42P8W-K (for 42" model)	TY-TP42P10S (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).