

**Panasonic**  
ideas for life

50-inch class **TH-50PF30U**  
1080P Full-HD Plasma Display

42-inch class **TH-42PF30U**  
1080P Full-HD Plasma Display

Superb Image Performance Produces  
Intricate Details **3D Compatible**<sup>\*1</sup>  
FULL HD Plasma Display



## Main Features

A new 3D-compatible<sup>\*1</sup> plasma panel produces bright, high-definition images.

A function slot (SLOT2.0) expands the range of applications.

A durable front glass is provided, and the plasma panel offers a service life of approximately 100,000 hours.<sup>\*2</sup>

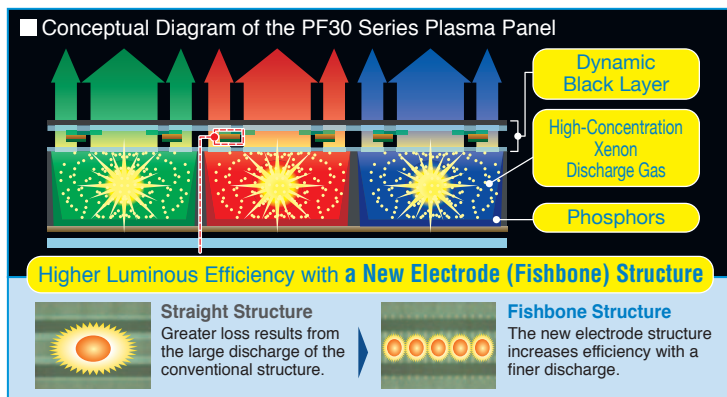
<sup>\*1</sup>: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.

<sup>\*2</sup>: 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.

# A New Structure and Phosphors Boost Luminous Efficiency by About 15%\*1 in This Innovative 3D Compatible\*2 Plasma Panel

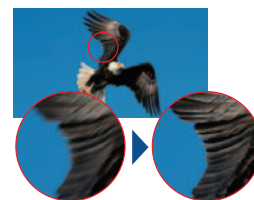
## A Level of Contrast That's Among the Industry's Highest

A new plasma panel structure has achieved 5,000,000:1\*3 native contrast. From robust blacks to dazzling whites, images are faithfully reproduced with rich gradation and remarkable depth.



## FULL HD Moving-Picture Resolution Speed of 1,200 Pixels/Second\*4 (1,080 lines of Moving-Picture Resolution\*5)

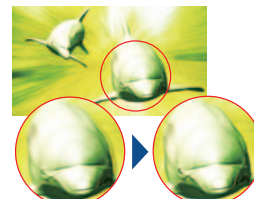
Fast-switching phosphors have increased motion image display performance to approximately 1.5 times\*1 the speed of conventional Panasonic models. Afterglow has also been shortened to approximately 1/3\*1 the previous level, so even fast-moving images are displayed with excellent stability and minimal blurring.



● Conventional Image ● PF30 Series Image

## Sharp, Clear 3D Images\*2

When 3D images are shown on display devices that have a slow panel response, the left-eye and right-eye images often overlap to produce double images. In addition to incorporating fast-switching phosphors, the PF30 Series features original light emission control technology that reduces double images and displays crisp, clear 3D images.\*2



● Conventional Image ● PF30 Series Image

## Expanding the Range of Applications

### A Function Slot Expands the Display's Applications

The "SLOT2.0" function slot lets you add display functions to match your application. By simply mounting an optional function board (sold separately), you can add TV tuner functions and connectivity with a content distribution system.



### New Function Boards Support Simultaneous 3D Image Input

#### 3D-Compatible Dual HD-SDI Terminal Board: TY-FB30DHD3D **NEW**

The HD-SDI simultaneous input system allows 3D images to be transmitted in broadcasting and image production workflows. Left-eye and right-eye image signals are sent through a single coaxial cable.

#### 3D-Compatible Dual DVI-D Terminal Board: TY-FB30DD3D **NEW**

The TY-FB30DD3D is compatible with the DVI simultaneous input system that is standard for CG applications. Left-eye and right-eye image signals output simultaneously from a PC are sent through DVI cables.

## A Tough Display — Impact Resistant and Long Lasting

### Highly Durable Glass Protects the Screen

The glass panel resists cracking when it is struck by an external impact, so it's ideal for public spaces such as passageways or halls where many people walk by. Also, because there's no need for a protective material on the front surface when it's used in a touch-panel configuration, there's no image quality degradation.

### Long Life of Approximately 100,000 Hours\*6

The long-life plasma panel displays bright, beautiful images for approximately 100,000 hours.\*6

### Versatile Image Display Functions



### A Host of Utilities

- Network Function
- Weekly Command Timer
- Remote System Monitoring
- Audio Input Select
- Tamper-Resistant Settings
- Energy-Saving Functions
- Screen Saver Functions

Specifications			
	TH-50PF30U	TH-42PF30U	
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 24.5" (1,105 x 622 mm)	36.3" x 20.4" (921 x 518 mm)	
Resolution (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	
Pixel Pitch (H x V)	0.576 x 0.576 mm	0.480 x 0.480 mm	
Contrast Ratio	5,000,000:1*1		
Gradation	6,144 steps (equivalent)		
Panel Life*2	Approx. 100,000 hours		
FULL HD 3D	3D Full HD Ready*3		
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/Cs, R/Pv/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/AUDIO IN (L/R)	Mini D-Sub 15 pin x 1 / M3 jack x 1	
	Control	LAN	RJ45 10 BASE-T/100 BASE-TX, compatible with PLink
		SERIAL	D-Sub 9-pin x 1 (External control terminal), RS-232C compatible
3D Shutter Out		M3 jack x 1 (for 3D IR Transmitter)	
DC 8V out for 3D IR Transmitter		Center Plus for EIAJ 4 mm Plug	
Function Slot		SLOT2.0 x 1 (Vacant)	
Power Requirements	110 - 127 V AC, 50/60 Hz	110 - 127 V AC, 50/60 Hz	
Power Consumption	475 W	390 W	
On Mode Average Power Consumption*4	220 W	165 W	
Power off Condition	0.2 W	0.2 W	
Stand-by Condition	Save ON 0.4 W, Save OFF 0.7 W	Save ON 0.4 W, Save OFF 0.7 W	
Speaker Out	6Ω, 16W [8 W + 8 W] (10%THD)	6Ω, 16W [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. 72.8 lbs. (33 kg)	Approx. 56.3 lbs. (25.5 kg)	

\*1: 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. \*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: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images. \*4: Based on IEC 62087 Ed.2 measurement method.

### Peripherals & Mounting Options

3D IR Transmitter	Pedestal	Wall-hanging bracket
TY-3D30TRW	TY-ST20-K	TY-WK42PV20 <small>*Also usable for vertical mounting</small>
Wall-hanging bracket (angled)	Ceiling-hanging bracket	Mobile stand
TY-WK42PR20	TY-CE42PS20	TY-ST58PF20
Detachable stereo speakers	Touch panel	Anti-glare filter
TY-SP50P8W-K (for 50" model) TY-SP42P8W-K (for 42" model)	TY-TP50P10S, TY-TP50P30K TY-TP42P10S, TY-TP42P30K	TY-AR50P12W (for 50" model) TY-AR42P12W (for 42" model)

● A variety of terminal boards and 3D Eyewear are also available.

\*1: Comparing previous models (PF20 Series) in the same size.  
\*2: An optional 3D IR Transmitter and 3D Eyewear are required for viewing 3D images.  
\*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.  
\*4: This is a new motion-image performance index that was announced by the Advanced PDP Display Development Center Corporation (APDC) on January 27, 2011, as an advanced version of the conventional moving-picture resolution index. It expresses the ability to display motion images in Full-HD resolution based on the speed at which an image moves (the number of pixels that move per second).  
\*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).  
\*6: 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.