

Panasonic
ideas for life

42-inch **TH-42PH20E**
High Definition Plasma Display

Faithful Image Reproduction Raises the Quality of Digital Signage



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

SLOT 2.0



NANODRIFT

Expandability

Versatile video inputs and the new "SLOT2.0" function slot expand display applications.

NANODRIFT SAVER

New screen saver reduces image retention five times*¹ more effectively than previous systems.

Tough Display with Long Service Life

Durable front glass panel and long service life of 100,000 hours*².

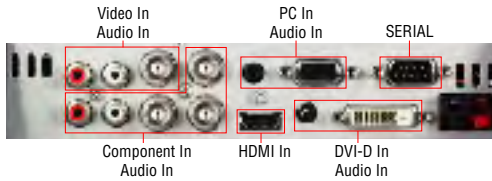
*1: Compared to our previous "wobbling" screen saver.

*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.

New "Slot 2.0" Function Slot Expands Display Applications

Versatile Video Inputs

You can input both analog (Component Video, Video, PC) and digital (DVI-D, HDMI) video signals to the display. These standard-equipped terminals handle most of the commonly used video signals.



New Function Slot Expands Display Applications

The new "Slot 2.0" function slot lets you add display functions to match the intended use. Mounting an optional function board allows the display to support a variety of applications.



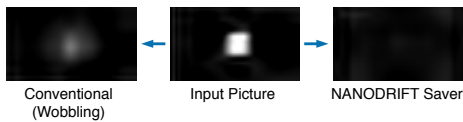
Tough Display with Significantly Improved Image Retention

New Screen Saver NANODRIFT SAVER

The NANODRIFT Saver reduces image retention five times*¹ more effectively than previous systems. It uses smooth, fine image movement to minimize the possibility of image retention without blocking the view.

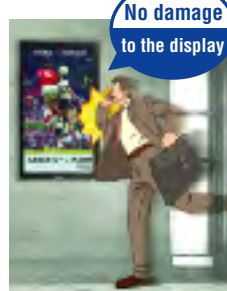
*1: Compared to our previous "wobbling" screen saver.

Simulated image to show accumulated brightness



Tough Body Withstands Use in Public Spaces

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



Long Life*² of approx. 100,000 Hours

Panasonic plasma displays provide sharp, beautiful images for many years.

*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.

The World's First*³ 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.

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

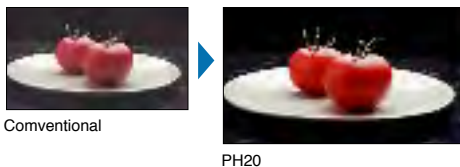


Deep Blacks, Rich Gradation and a Wide Colour Gamut Produce Truly Eye-Catching Images

Crisp Images with a High Contrast Ratio of 2,000,000:1**

Original image-processing technologies have enabled a high contrast ratio of 2,000,000:1**. This produces robust blacks that give images greater realism and depth.

**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.



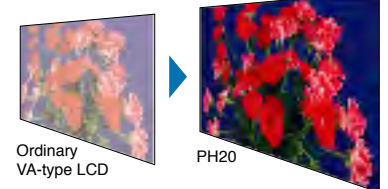
Colours that are Faithful to the Original

This wide colour gamut exceeds even the color reproduction range of the HDTV standard (ITU-R, BT.709). The colours 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.



Specifications

Specifications		TH-42PH20E
Screen Size (Diagonal)		42-inch
Aspect Ratio		16:9
Effective Display Area (W x H)		921 x 518 mm
Resolution (H x V)		1,024 x 768 pixels
Pixel Pitch (H x V)		0.900 x 0.675 mm
Contrast Ratio / Gradation		2,000,000:1** / 5,120 steps (equivalent)
Moving Picture Resolution		720 lines
Input	VIDEO IN	BNC x 1 [1.0 Vp-p, 75 ohms]
	AUDIO IN (L/R)	RCA pin jack x 2 [0.5 Vrms]
	COMPONENT IN	BNC x 3 [Y/G: with sync 1.0 Vp-p, 75 ohms; Pb/B, Pr/R: 0.7 Vp-p, 75 ohms]
	AUDIO IN (L/R)	RCA pin jack x 2 [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
	AUDIO IN (L/R)	M3 jack x 1
	PC IN	Mini D-sub 15pin x 1 [Y/G: with sync 1.0 Vp-p, 75 ohms; Pb/B, Pr/R: 0.7 Vp-p, 75 ohms; HD/VD: 1.0 — 5.0 Vp-p, high impedance], Plug & Play (VESA DDC 2B)
	AUDIO IN	M3 jack x 1
	SERIAL	D-sub 9-pin x 1 (External control terminal), RS-232C compatible
Function Slot		SLOT2.0 x 1 (Vacant)
Power Requirements		220 - 240 V AC, 50 Hz/60 Hz
Power Consumption		275 W
Power off condition		0.3 W
Stand-by condition		Save Off: 1.1 W, Save On: 0.6 W
Audio Output		16 W [8 W + 8 W] (10 % THD)
Dimensions (W x H x D)		1,020 x 610 x 89 mm
Weight (approx.)		25.0 kg

Versatile Image Display Functions



A Host of Utilities

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

Peripherals & Mounting Options

Pedestal	Wall-hanging bracket (vertical)	Wall-hanging bracket (angled)
TY-ST20-K	TY-WK42PV20 * Also usable for vertical mounting	TY-WK42PR20
Ceiling-hanging bracket	Mobile stand	
TY-CE42PS20	TY-ST58PF20	
Detachable stereo speakers	Touch panel (Infrared Retroreflection-Detection System)	Anti-glare filter
TY-SP42P8W-K	TY-TP42P10S	TY-AR42P12W

• A variety of terminal boards are also available.