

Panasonic
ideas for life

PLASMA DISPLAY
NEW PRODUCT INFORMATION

TH-42PWD6EX/BX

42" (106 cm) diagonal Wide Plasma Display

Superior Picture Quality,
Advanced Functions and
Improved Expandability

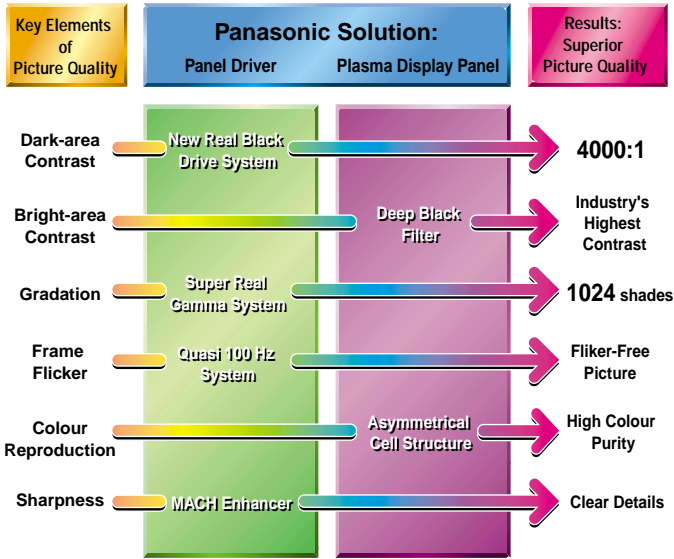


Main Features

- 1** **1,024-Shades & 4000:1 Contrast Ratio**
Superior Image Presence
- 2** **Multi-Function Slots**
Versatile Expandability
- 3** **Dual Pictures**

Total Picture Quality

The Panasonic Plasma Display delivers brilliant, high-contrast images with rich gradation and remarkable depth. Behind this total picture quality is the powerful synergetic effect between the plasma display panel and a panel driver that is optimally suited to display devices.



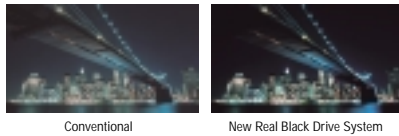
Super Real Gamma System

The Super Real Gamma System provides the optimal number of sub-fields for each scene. This allows Panasonic plasma display to reproduce 1,024* shades of gradation for superior detail in dark scenes. When a PC signal is input, the Panasonic plasma display reproduces gradation in steps equivalent to 1,536* shades at the lower brightness levels, where the human eye sees best.

* In Normal/Cinema mode.

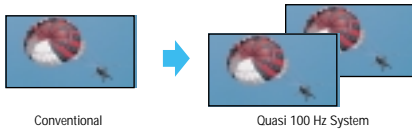
New Real Black Drive System

By reducing the pre-discharge emission when reproducing black, the New Real Black Drive System provides deeper, richer blacks and a stunning 4000:1 contrast.



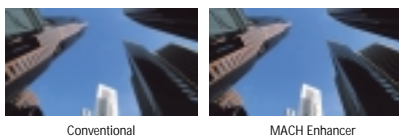
New Quasi 100 Hz System

A quasi 100-Hz sub-field drive system detects when a PAL video signal is input and essentially doubles the number of fields displayed in a given time. This dramatically reduces the flicker that can occur when playing PAL sources.



MACH Enhancer

The MACH Enhancer is an original Panasonic contour-emphasis signal processing technology. Drawing on the Mach effect, this technology enhances an object's contours in a way that best suits the way the human eye perceives objects.



Specifications

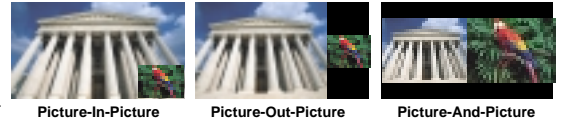
| | | |
|--------------------|------------------------------|---|
| DISPLAY | Screen Size | 42" (106 cm) diagonal |
| | Screen Aspect | 16 : 9 Wide |
| | Number of Pixels | 408,960 (852 x 480) pixels |
| | Pixel Pitch | 1.08 mm |
| | Displayable Colours | 1,070 million colours |
| | Contrast Ratio | 4000 : 1 (in dark surroundings) |
| | Colour System | NTSC/PAL/SECAM/PAL 60Hz/M-NTSC |
| | Audio Output | 16 W (8 W x 2) |
| | On-Screen Display | US English/UK English/Spanish/French/German/Italian/Chinese |
| | Screen Coating | AR (Anti-Reflection) Coating |
| TERMINAL | RGB Input (PC/Component) | Mini D-sub 15-pin x 1 (VGA display & SVGA, XGA, SXGA, UXGA compressed display); fH: 15 — 110 kHz; fV: 48 — 120 Hz |
| | Audio Input (for PC) | M3 stereo plug |
| | Serial (RS232C) | D-Sub 9-pin |
| GENERAL | Power Supply | AC 220 - 240 V, 50/60Hz |
| | Power Consumption | Average: 265 W; Stand-by (Save On): 0.8 W |
| | Dimensions (W x H x D) | 1020 x 610 x 89 mm |
| | Weight | 28.5 kg |
| | Operating Temperature | 0°C — 40°C |
| Operating Humidity | 20% — 80% (Non condensation) | |

Deep Black Filter

The front protective glass of the Panasonic Plasma Display incorporates a new Deep Black Filter that suppresses light transmittance and slashes the amount of external light reflected. This helps our display achieve the industry's highest level of contrast when viewed in bright surroundings.

Dual Pictures

You can display images from two different sources at the same time.



Multi-Screen Applications

The built-in image-enlarging function simplifies 4 (2 x 2) or 9 (3 x 3) multi-screen displays.

9-Point Digital Zoom

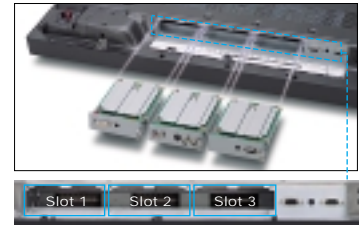
Use this function to select one portion of an image (from nine points on the screen), enlarge it to two or three times normal size, and display it on the full screen.

Energy-Saving Functions

¥ DPMS (Display Power Management Signaling) ¥ Auto Power Off
 ¥ Power Save Mode ¥ Standby Power Save Mode
 ¥ Plasma C.A.T.S. (Contrast Automatic Tracking System)

Multi-Function Slots

In addition to the fixed input interface, the Panasonic Plasma Display has three interchangeable slots that let you add different combinations of optional terminal boards.



Optional Terminal Boards

Component/Composite Video Terminal Board TY-42TM6Y
 (Insertable in slots 1 & 2, or slots 2 & 3)

* The characters in red are added for explanation.



RGB Active Through Terminal Board TY-42TM6G
 (Insertable in slots 1 and 2)



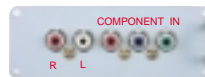
BNC Component Video Terminal Board TY-42TM6A
 (Insertable in slot 1, 2, or 3)



BNC Composite Video Terminal Board TY-42TM6B
 (Insertable in slot 1 or 2)



RCA Component Video Terminal Board TY-42TM6Z
 (Insertable in slot 1, 2, or 3)



RCA Composite Video Terminal Board TY-42TM6V
 (Insertable in slot 1 or 2)



RGB (Digital W/HDCP) Terminal Board TY-42TM6D
 (Insertable in slot 1 or 2)



PC Input Terminal Board TY-42TM6P
 (Insertable in slot 1, 2, or 3)



Preset Input Signals

| Signal name | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Optional Board | | | | | | |
|------------------|----------------------------|-------------------------|----------------|-----------|-----------|-----------|-----------|---|---|
| | | | TY-42TM6Y | TY-42TM6Z | TY-42TM6P | TY-42TM6D | TY-42TM6G | | |
| Composite | NTSC | 15.73 | 59.95 | ✓ | ✓ | | | | |
| | PAL | 15.63 | 50 | ✓ | ✓ | | | | ✓ |
| | PAL60 | 15.73 | 59.95 | ✓ | ✓ | | | | ✓ |
| | SECAM | 15.63 | 50 | ✓ | ✓ | | | | ✓ |
| | Modified NTSC | 15.73 | 59.95 | ✓ | ✓ | ✓ | ✓ | | ✓ |
| | 525 (480)/60i | 15.73 | 59.94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 625 (575)/50i | 15.63 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 525 (480)/60p | 31.47 | 59.94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 625 (575)/50p | 31.25 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 750 (720)/60p | 45 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Component | 750 (720)/50p | 37.5 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1125 (1080)/60i | 33.75 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1125 (1080)/50i | 28.13 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1125 (1080)/24p | 27 | 24 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1125 (1080)/24sF | 27 | 48 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1250 (1080)/50i | 31.25 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 640 x 400 @70 | 31.5 | 70 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 640 x 480 @60 | 31.5 | 59.94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Mac 13 (640 x 480) | 35 | 67 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 640 x 480 @75 | 37.5 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| RGB | 852 x 480 @60 | 31.7 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 x 600 @60 | 37.9 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 x 600 @75 | 46.9 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 800 x 600 @85 | 53.7 | 85 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Mac 16 (832 x 624) | 49.7 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1024 x 768 @60 | 48.4 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1024 x 768 @70 | 56.5 | 70 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1024 x 768 @75 | 60 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1024 x 768 @85 | 68.7 | 85 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Mac 21 (1152 x 870) | 68.7 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PC | 1280 x 1024 @60 | 64 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1280 x 1024 @75 | 80 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1280 x 1024 @85 | 91.1 | 85 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1600 x 1200 @60 | 75 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 1067 x 600 @60 | 37.9 | 60.3 | | | ✓ | ✓ | ✓ | ✓ |
| | 1366 x 768 @60 | 48.4 | 60 | | | ✓ | ✓ | ✓ | ✓ |
| | 525 (480)/60i | 15.73 | 59.94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 525 (480)/60p | 31.47 | 59.94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 625 (575)/50i | 15.63 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 625 (575)/50p | 31.25 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 750 (720)/60p | 45 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 750 (720)/50p | 37.5 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 1125 (1080)/60i | 33.75 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 1125 (1080)/50i | 28.13 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 1125 (1080)/24p | 27 | 24 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 1125 (1080)/24sF | 27 | 48 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 1250 (1080)/50i | 31.25 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |