

PDP-5000EX

1,080p Resolution 50-Inch Plasma Display

Feature Highlights for Astounding Picture Quality

- Pioneer's Advanced Plasma Technology for High Resolution Moving Image Display
- Pioneer's Original Fully-Digitalized Video Signal Processing for Massive Colour Reproduction
- 1,080 Progressive Image Reproduction
- 2,073,600-Pixel (1,920 x 1,080) Resolution
- Peak Brightness 1000 cd/m²
- Contrast 3000:1
- Panel Emitting Efficiency 1.8 lm/W
- Direct Colour Filter for Superior Contrast
- A Wide Range of Terminals Including HDMI and DVI
- Optional Table Top Stand Available
- Aluminum Finish Remote Control

Panel Technologies

- Deep Waffle Rib Structure — This energy efficient design allows each pixel to deliver a more concentrated beam of light, for truer colour and brighter images.
- PUREBLACK Crystal Layer for dynamic colour and contrast, deeper black colours, and increased brightness.
- Direct Colour Filter for enhanced contrast and accurate colour reproduction. The non-glass filter is bonded directly to the plasma panel reducing light reflection and refraction for a more accurate image.

Video Processing Technologies

- PURE Drive 2^{HD} Signal Processing — Full Time Digital Video Processing delivers a low noise, high contrast, and natural colour image.
- i-CLEAR Drive for billions of colour reproduction and improved grey-scale rendering in dark picture areas.
- ISF C³ Video Calibration system for detailed picture calibration
- Active DRE (Dynamic Range Expander) detail setting

- Advanced PureCinema with 3:3 pull down — Film-based material on DVD, videotape or even regular TV will match the smooth and natural reproduction seen in a movie theater.
- Colour Temperature Adjustment — 5 Settings (high/mid-high/mid/mid-low/low), plus advanced manual adjustability of RGB High and RGB Low.
- Colour Management System — Independent R/Y/G/C/B/M
- Digital Noise Reduction — 4 Settings (off/high/mid/low)
- MPEG Noise Reduction — 4 Settings (off/high/mid/low)
- Digital CTI (Colour Transient Improver)
- Natural Resize
- Natural Enhancer
- Digital Chroma Decoder
- Dual Screen Function



PURE
vision
BLACK

HD
ready

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

SRS
WOW

PUREBLACK
Crystal Layer

Direct
Colour Filter

i-CLEAR
Drive

deep waffle rib

isf
ccc

PDP-5000EX

Pioneer Offers World's First 1,080p Resolution 50-Inch Plasma Display

Impossible? Not anymore. Pioneer's state-of-the-art technology now offers the world's first 1,080p 50-inch plasma display. Each of its 1,920 x 1,080 pixels works together to create breathtaking picture quality, pushing your viewing experience beyond what you thought possible.

Higher Resolution with Superior Contrast and Brightness

The PDP-5000EX boasts an astounding 2,073,600-pixel (1,920 x 1,080) resolution, delivering much finer detail than XGA Plasma displays with the same 50-inch size but only a 983,040 pixel (1,280 x 768) resolution. The PDP-5000EX's enormous resolution is possible due to the reduced size of each pixel, yet it still delivers superior brightness and contrast. This achievement is the product of Pioneer's extensive background in display panel technologies, plus our latest innovation — the PUREBLACK Crystal Layer. To increase contrast, we inserted this newly developed Crystal Emissive Layer between the plasma glass and the individual light cells.

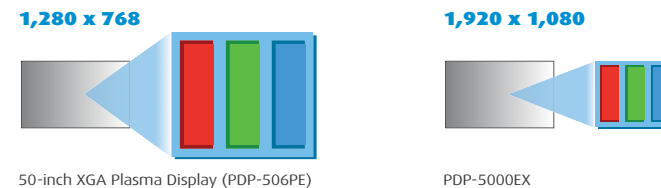
This allows each cell to be charged and discharged three times faster than before, for greater light emission. Blacks are blacker, yet the lighter areas on the screen still maintain their true brightness values. And perhaps for the first time outside of a movie theater, you can see all of a film's details, even in the darkest scenes.

Specifications

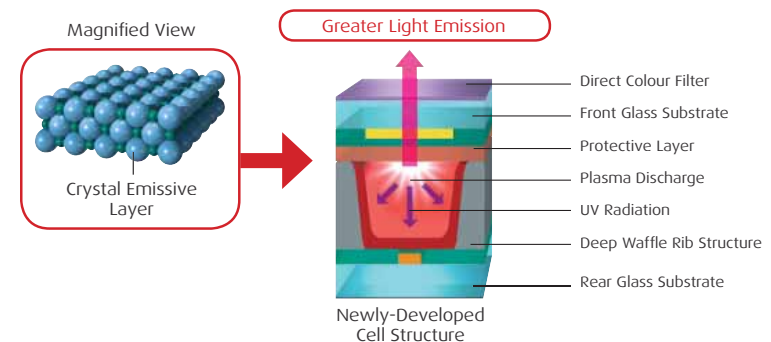
Number of Pixels	1,920 x 1,080 pixels	
Audio Amplifier	13 W + 13 W (1 kHz, 10 %, 8 Ω)	
Surround System	SRS/FOCUS/Trubass	
Power Requirement	110 - 240 V AC, 50/60 Hz, 344 W (0.4 W Standby)	
Dimensions	1,282 mm (W) x 750.5 mm (H) x 98 mm (D)	
Weight	39.8 kg	
Colour System	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
Terminals	INPUT1	DVI (with HDCP)
	INPUT2	HDMI (with HDCP)
	INPUT3	HDMI (with HDCP)
	INPUT4	BNC
	INPUT5	S-VIDEO
	INPUT6	COMPOSITE

- Specifications and design subject to modification without notice.
- Pioneer plasma display panels are manufactured using a high level of ultra-precision technology. Nevertheless, permanently lit, inactive or overactive pixels may occur. This is a consequence of plasma technology.
- Plasma display systems, while in use, may generate functional noise.
- All phosphor-based display systems (CRT Television Systems — both direct view and projection televisions — as well as plasma display systems) may possibly have image retention.

Pixel Size Reduced by 53 Percent!



Deep Waffle Rib Structure with Crystal Emissive Layer



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