

## PRO-FHD1

## 1,080p Resolution 50-Inch Plasma Monitor

### 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 Color Reproduction
- 1,080 Progressive Image Reproduction
- 2,073,600-Pixel (1,920 x 1,080) Resolution
- Peak Brightness 1000cd/m<sup>2</sup>
- Contrast 3000:1
- Panel Emitting Efficiency 1.8 lm/W
- First-Surface Pure Color 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 Encased Cell Structure — This energy efficient design allows each pixel to deliver a more concentrated beam of light, for truer color and brighter images.
- Crystal Emissive Layer for dynamic color and contrast, deeper black colors, and increased brightness.
- First Surface Pure Color Filter for enhanced contrast and accurate color reproduction. The non-glass filter is bonded directly to the plasma panel reducing light reflection and refraction for a more accurate image.

### Dimensions and Weight

- Dimensions (W x H x D): 50-1/2 x 3-7/8 x 29-9/16 inches / 1,282 x 98 x 750.5mm
- Weight: 87 lbs. 9 oz./39.8kg

### Video Processing Technologies

- Pure Drive II Signal Processing — Full Time Digital Video Processing delivers a low noise, high contrast, and natural color image.
- ACE IV (Advanced Continuous Emission) for billions of color reproduction and improved grey-scale rendering in dark picture areas.
- ISF3CCC Video Calibration system for detailed picture calibration
- Active DRE (Dynamic Range Expansion) detail setting
- Advanced Pure Cinema 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.
- Color Temperature Adjustment — 5 Settings (high/mid-high/mid/mid-low/low), plus advanced manual adjustability of RGB High and RGB Low.
- Color 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 (Color Transient Improver)

- Natural Resize
- Natural Enhancer
- Digital Chroma Decoder
- Twin Picture Function



**ELITE**

\* See reverse side for more information.

## PRO-FHD1

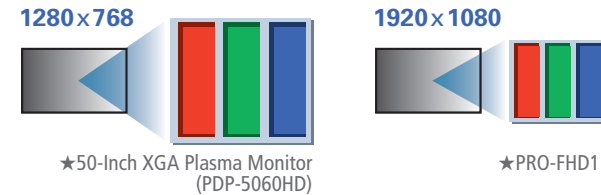
### Pioneer Offers World's First 1,080p Resolution 50-Inch Plasma Monitor

Impossible? Not anymore. Pioneer's state-of-the-art technology now offers the world's first 1,080p 50-inch plasma monitor. 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.

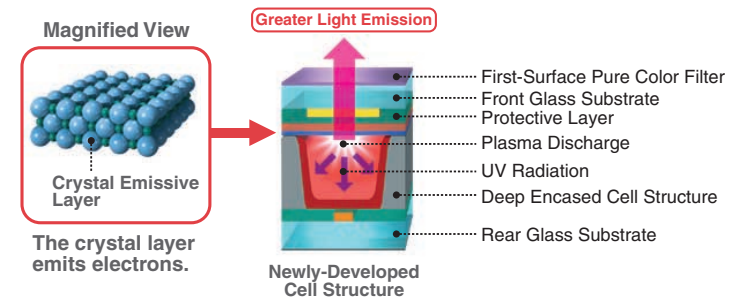
### Higher Resolution with Superior Contrast and Brightness

The PRO-FHD1 boasts an astounding 2,073,600-pixel (1,920 x 1,080) resolution, delivering much finer detail than XGA Plasma Monitors with the same 50-inch size but only a 983,040 pixel (1,280 x 768) resolution. The PRO-FHD1'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 Crystal Emissive Layer. To increase contrast, we inserted the 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.

### Pixel Size Reduced by 53 Percent!



### Deep-Encased Cell Structure with Crystal Emissive Layer



The new cell structure has enabled significantly improved light emission efficiency.

- Specifications and design subject to modification without notice.
- HIGH-DEFINITION TELEVISION (HDTV) MONITOR: HDTV Monitor refers to a monitor or display with the following minimum performance attributes:
  - Display Scanning Format: Has active vertical scanning lines of 720 progressive (720p), 1080 interlaced (1080i), or higher.
  - Aspect Ratio: Capable of displaying a 16:9 image.
- Displaying the same still images for long periods should be avoided as image shadowing or burn-in may occur.
- Plasma Display Systems display images consisting of hundreds of thousands of minute pixels (light emitting cells), and there is a possibility that some pixels may be inactive, flashing or continually illuminated. Plasma Display Systems are made of glass; be sure to secure it from damage from impact.
- Plasma Display Systems, while in use, may generate some functional sounds, for example: fan motor noise, and electrical circuit humming/glass panel buzzing. The Plasma Display System Media Receiver uses an on-board cooling fan. If the ambient temperature of the Media Receiver becomes high, the speed of the cooling fan increases and it may sound louder than normal during the cooling period.

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, also known as burn-in. Recommended guidelines are as follows:

- Do not display still images for long periods (such as fixed images from PC or TV game equipment, and/or time of day indicator or channel logo display).
- Do not display content in the 4:3 aspect ratio (black or gray bars on left and right side of content) or letter-box content (black bars above and below of content) for extended periods of time, or use either of these viewing modes repeatedly within a short period of time. This Plasma Display System is equipped with multiple widescreen viewing modes; use one of these screen modes to fill the entire screen with content.
- Displaying dark images after displaying still images for a period of time may cause image retention. In most cases, the image retention can be corrected by displaying bright images for a similar period of time. However, if your Plasma Display System displays still images for additional long periods of time, image retention may be irreparable.

- Plasma Display Systems may have a negative effect on sound or images coming from AM radios, PCs or video-related products.
- Plasma Display Systems emit slight amounts of IR (Infrared Emission) through luminous discharge technology. This IR is not harmful to living organisms, but may interfere with the operation of remote controls for other equipment, or cause static in equipment using IR (such as cordless headphones or cordless microphones).
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