True to their name, Pioneer Elite components are designed for a very select group of users — those who settle for nothing less than the best in audio and video. The state-of-the-art performance and specifications of these high-end products are the result of uncompromising standards in engineering and manufacturing, painstaking selection of parts and devices, and careful testing of each and every component. Pioneer Elite is the single brand solution for discriminating home theater enthusiasts.

The latest lineup of Elite plasma display panels (PDPs) includes units with new PureDrive™ II technologies, which feature all-digital signal processing. These new panel driving technologies provide finer details and increased parameters for picture adjustment. The new Elite PDPs also feature the new display panel technologies, which delivers higher contrast and "blacker black" with highly efficient light emission. The media receiver for the new units comes with a card slot, which lets you view JPEG digital stills enlarged on the PDP screen. The new Elite PDPs are also compatible with TV Guide On Screen™ for enhanced convenience.

The Elite A/V receivers feature two new units that incorporate Phase Control technologies for synchronized phase among channels — a new concept for superior multi-channel sound. Pioneer’s advanced technologies allow standing wave to be effectively controlled. The new Elite A/V receivers have greater convenience, including compatibility with iPod® and XM Radio. The lineup also includes the world’s first THX Select2-certified A/V receivers.

In this Product Reference Guide to the Pioneer Elite Series, you’ll find details about these and other technologies incorporated into Elite products. We hope you will find this guide useful and thank you for your interest.

## TABLE OF CONTENTS

**PUREVISION PLASMA TELEVISIONS AND DISPLAYS** 3

**DVD PLAYERS** 18

**A/V RECEIVERS** 26

**POWER AMPLIFIERS** 42

**FILE-TYPE CD PLAYER** 44

**INDEX** 46

---

**PUREVISION PLASMA TELEVISIONS AND DISPLAYS**


- PureDrive™ II
- ACE IV (Advanced Continuous Emission Technology IV)
- Active DRE (Dynamic Range Expander)
- PureDrive™
- ACE II (Advanced Continuous Emission Technology II)
- DRE (Dynamic Range Expander)
- Deep Encased Cell Structure with Crystal Emissive Layer
- True Matrix Imaging with Deep Encased Cell Structure
- First Surface Pure Color Filter
- Capsulated Color Filter
- Pure Color Filter II
- TV Guide On Screen™ System
- Home Gallery
- Advanced PureCinema with 3-3 Pull-down
- PureCinema Automatic Format Converter
- SF Custom Calibration Configuration (C²)
- ATSC Digital Broadcast Compatibility
- DCR (Digital Cable Ready) Tuner
- HDMI Input
- i.LINK (IEEE 1394) Terminal for D-VHS Recorder Connection
- SRs Terminal (A/V Receiver Control)
- New "PURE" Mode for AV Selection
- 16-bit 3D Digital Y/C Separation Circuit
- Natural Re-Size
- Digital Chroma Decoder
- Digital Noise Reduction Circuit/MPEG Noise Reduction Circuit
- Dynamic HD Converter
- Natural Enhancer
- Digital CFI
- Color Management
- Selectable Screen Sizes
- Multi-Window Display
- Closed Caption Compatibility
- Surround Modes — SRS, TruBass, and FOCUS
- Subwoofer Output
- Speaker System
- Fiber-Optic Extension System
- Pioneer Innovations in Panel-Driving Technologies

**PureDrive™ II — Fully-Digitalized Video Signal Processing for Even Higher Picture Quality (PRO-1130HD/PRO-930HD)**

With conventional plasma display panels (PDP), input signals are converted back and forth between analog and digital before being sent to the display panels. This tends to cause noise, degrading the quality of displayed pictures. As a leading manufacturer of PDPs, Pioneer developed PureDrive™ technology, featuring all-digital video signal processing. Now, the PRO-1130HD and PRO-930HD come with its new version — PureDrive™ II. PureDrive™ II features new custom chips that ensure a wide range of picture-quality benefits, including lower noise, finer gradation, and more natural color reproduction. (See the figure at the top of the next page.)

**ACE IV (PRO-1130HD/PRO-930HD)**

ACE IV (Advanced Continuous Emission Technology IV) — newly built into the PRO-1130HD and PRO-930HD — is one of the biggest benefits of PureDrive™ II. In addition to the benefit of ACE II (see the next page for details), this new technology delivers the following advantages:

1. **Smoother Gradation**
   The new technology allows even smoother gradation — with more steps than the previous version — letting you reproduce even more colors.

2. **Finer Details in Low Brightness Ranges**
   ACE IV automatically analyzes the overall picture to optimize gradation and brightness levels. When a scene has only dark areas, such as night views and low-lit rooms, ACE IV detects this and concentrates on gradation in the low-brightness ranges, to reproduce details much finer than usual for dark colors.

**ACE IV**

- Previous Models
- Much Smoother Gradation than Previous Models
- PRO-1130HD and PRO-930HD with ACE IV
- Much Finer Details for Dark Colors

---

**Pioneer Innovations in Panel-Driving Technologies**

**PUREVISION PLASMA TELEVISIONS AND DISPLAYS**

ELITE AUDIO/VIDEO COMPONENTS

PRODUCT REFERENCE GUIDE 2005/2006
Active DRE (PRO-1130HD/PRO-930HD)

PureDrive™ II provides yet another benefit — the Active DRE (Dynamic Range Expander). This new technology offers wider picture control options than the previous version (which only offers High, Mid, Low, and Off).

Active Dynamic Range Expander

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Function</th>
<th>Control Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Contrast</td>
<td>Emphasize the contrast between dark and bright images, so that (for example) sunlight falling through leaves looks brighter and edges of human faces become more distinct.</td>
<td>High/Mid/Low/Off</td>
</tr>
<tr>
<td>Black Level</td>
<td>Emphasize dark areas for greater distinction from bright areas.</td>
<td>On/Off</td>
</tr>
<tr>
<td>Kathode Control</td>
<td>Automatically compensate to create optimum contrast characteristics.</td>
<td>On/Off</td>
</tr>
<tr>
<td>Gamma Control</td>
<td>Control gradation characteristics.</td>
<td>G1/G2/G3</td>
</tr>
</tbody>
</table>

PureDrive™ — Fully-Digitized Video Signal Processing (PRO-1010HD/PRO-810HD)

PureDrive™ features original custom circuitry — four in the media receiver and two in the panels themselves — that always keep video signals digital. Each block in the image processing circuit is directly connected, using the shortest signal path to minimize image-degrading noise and signal deterioration. This helps retain superior signal quality from input to output.

ACE II (PRO-1010HD/PRO-810HD)

ACE II (Advanced Continuous Emission Technology II) offers superior gradation accuracy in low brightness ranges, reproducing fine details of dark images. In addition, the ACE II also eliminates false contours (sharp edges where there should be smooth gradation) — a Pioneer-exclusive benefit, which is delivered by the new ACE IV as well.

More Gray Shades in the Low Brightness Range (ACE II)

Display Panel Technologies

PDP Technology

The PDP screen is actually two panels of glass with nearly a million pixels sandwiched between them. The pixels consist of tiny cells that hold gas, with electrodes on the top and bottom. Electrical discharges cause the gas to emit ultraviolet light that excites red, green and blue phosphors, which in turn radiate visible light to produce bold, color images.

Black Stripe Coating for Vivid Images

The addition of black stripes help reduce the amount of external light reflected off the screen surface, which greatly improves contrast. Viewers can enjoy sharp, vivid pictures, even under bright ambient lighting, with no washed-out colors or poor contrast.

Deep Encased Cell Structure with Crystal Emissive Layer (PRO-1130HD/PRO-930HD)

The PRO-1130HD and PRO-930HD create brighter pictures and “blacker black” while consuming less power. This is thanks to new display panel technologies, which work in synergy with the new video signal processing technology of PureDrive™ II.

Deep Encased Cell Structure with Crystal Emissive Layer

Energy-Saving Technologies for the “Single Drive” Display

These energy-saving display panel technologies allow the use of a ‘single panel drive’ while conventional panels use “dual drive”. In addition to lower power consumption, the new Elite PDPs also conserve material — another environmentally-friendly solution from Pioneer.

True Matrix Imaging with Deep Encased Cell Structure (PRO-1010HD/PRO-810HD)

The Deep Encased Cell Structure features a wide phosphor area and a reduced leakage of light to adjacent cells, which delivers a bright, clear image. The structure also increases light emission efficiency for superior brightness of the pictures.

Additionally, the green phosphor element features superior persistence characteristics, which help deliver the industry’s highest level of brightness: 1,100 cd/m² for the PRO-810HD, and 1,000 cd/m² for the PRO-1010HD. The units also boast superior white reproduction for more subtle nuances, and improved clarity for more natural, precise rendering of characters and images.

The PRO-1410HD, a 61-inch PDP from Pioneer, also features a special cell structure — New Encased Cell Structure.
The PRO-1130HD and PRO-930HD retain superior contrast even in bright environments thanks to the First Surface Pure Color Filter, which features a layer of film affixed to the glass color panel covering the plasma cells. Unlike conventional glass filters, First Surface Pure Color Filters eliminate the space between the film and the glass which allows ambient light reflection to be reduced. This improves contrast ratio in bright environments by 20%. Additionally, the filter balances the colors of the passing light, producing color values that are closer to the true NTSC color standard than conventional TVs or monitors can display.

Capsulated Color Filter (PRO-1410HD)
Pure Color Filter II (PRO-1010HD/PRO-810HD)
The Elite PDPs come with special filters that greatly decrease external light reflectivity for higher contrast, providing an extremely clear image even in bright environments. The filters also optimize the primary colors (red, green, and blue) by filtering out undesired colors, to improve the quality of image reproduction.

Features for Higher-Level Entertainment
TV Guide On Screen™ System (PRO-1130HD/PRO-930HD)
The PRO-1130HD and PRO-930HD are compatible with the TV Guide On Screen™ — a free, interactive on-screen TV program guide that you can easily browse with the remote control. It shows you a list of programs broadcast now, or in the coming week, by channel or category. The system provides a wide range of convenient features, including:

1. User-Friendly GUI
The system guides you through programs with user-friendly GUI. Easy-to-understand icons and a broad array of displayed information make it simple to use.

(2) Easy Recording Operations
Just choose a program from the list and press the REC button on the remote control — the program will automatically be recorded to a selected recorder. You can set recording frequency for individual episodes or every time a program airs. Program search is possible by category, such as Movies, Sports, or Children, or by keyword(s). Alphabetical search is also available, showing you all the programs whose titles start with a certain letter. When search results are displayed, scheduling a recording is as easy as pressing the REC button on the remote control. These functions are also available for HDTV programs.

Remote Control Keys for TV Guide On Screen™

(3) Program Reminders
If you set a program reminder, the PDP alerts you when the program is about to be aired on another channel. Reminders can be set for individual episodes or every time a program airs. The “auto tune” function automatically changes the current channel to show you the program. This function also provides an on-screen alert when the chosen program overlaps another that you previously selected for auto tuning or scheduled recording.

Home Gallery — Memory Card Slot for Still Picture Display (PRO-1130HD/PRO-930HD)
The media receiver for the PRO-1130HD and PRO-930HD includes a memory card slot, which supports Smart Media, Compact Flash, SD, MMC, MultiMediaCard, Memory Stick, Micro Drive, iX-Card Picture Card™, and Flash Memory. This allows you to view JPEG digital still photos (including those in DCF and 4:2:2 formats) stored in the memory card enlaced on the PDP screen, with high resolution of up to 2,400 x 1,800 pixels. You can also view photos as a slide show or in thumbnails. The units support up to 2,000 files per folder, with a max. 500 folders per memory card (256 folders for the slide show function). Supported file systems include FAT12, FAT16, FAT32, and VFAT.

Advanced PureCinema with 3-3 Pull-down (PRO-1130HD/PRO-930HD/PRO-1010HD/PRO-810HD)
The Pioneer Elite PDPs feature Advanced PureCinema with 3-3 Pull-down. From 24fps film-based sources, this function creates three frames of each frame for 72 progressive frames per second, which perfectly synchronizes the frame arrangement with original films, and eliminates the need for interpolations. As a result, film-based materials provide the natural representation unique to real films.

PureCinema Automatic Format Converter (PRO-1410HD)
Film (24 frames per second) doesn’t always translate correctly to television (30 frames), so watching a movie at home can be frustrating for videophiles. Not true with the PRO-1410HD. The Pioneer-exclusive Automatic Format Converter analyzes a movie’s signal and boosts picture quality eight times. PureCinema detects an NTSC 3/2 film-based source and instantly recreates each individual still frame to create a smooth, more natural presentation.

ISF Custom Calibration Configuration (C’)
ISF C’ is an Elite-exclusive feature that enables the PDP to be optimized for the specific room where it is placed. As an optional service available through Elite dealers, a specially-trained ISF professional can inspect the conditions of the viewing room and calibrate contrast, tint, sharpness, color levels, and other parameters to best fit the environment. Room layout and size, ambient light (for both day and night viewing), and other conditions that affect picture quality are measured and factored in. The result is unparalleled picture accuracy.

Once the ISF C’ calibrations are made, ISF becomes an additional preset mode for AV Selection, allowing you to revert back to the TV’s original settings or make fine tuning adjustments. You can toggle the ISF mode back and forth whenever you want.

The PRO-1010HD, and PRO-810HD come with the second generation of this technology, which permits calibration via RS-522C interface.

The PRO-1130HD and PRO-930HD also allow more detailed 8-step Gamma control. These two PDPs make ISF C’ information more legible, with 4-line 24-character display in both capital and small letters.

ATSC Digital Broadcast Compatibility (PRO-1130HD/PRO-930HD)
The PRO-1130HD and PRO-930HD come with a built-in ATSC (Advanced Television Systems Committee) compatible tuner. In addition to regular TV (NTSC), the units show three types of ATSC digital broadcasts — Standard-Definition, Enhanced-Definition, and High-Definition — with a Pioneer technology that up-converts video signals for the highest possible picture quality.

The units permit connection to D-VHS recorders via i.LINK (IEEE 1394) terminal for recording DTV programs while retaining the original picture quality.
**Advanced Technologies for a Wide Array of Benefits**

**New "PURE" Mode for AV Selection (PRO-1130HD/PRO-930HD/PRO-1010HD/PRO-810HD)**

The PRO-1130HD and PRO-930HD feature the new "PURE" mode for AV Selection. This mode delivers pictures without any enhancement (Gamma, Color, Tint, Sharpness, etc), minimizing the artifacts of extra video processing.


NTSC (analog) video images consist of two signals, luminance (Y) signals for brightness information and chrominance (C) signals which contain color information. When analog video is played back, the Y and C signals must be kept separate or they will interfere with each other, which results in annoying video noise such as "cross color", or rainbow patterns in picture areas with fine detail, and "dot crawl" — distracting, visible dots moving along the edges of images. To combat these, Pioneer has developed the 10-bit 3D Digital Y/C Separation Circuit exclusively for use in plasma display panels. Powered by PureDrive, the circuit effectively keeps Y and C signals separate, reducing the annoying noise and improving the rendering of contoured objects and integrity of images.

**Natural Re-Size (PRO-1130HD/PRO-930HD/PRO-1010HD/PRO-810HD)**

Many plasma display panels allow the user to select a screen mode best suited to the material being viewed — for example, when watching a regular 4:3 TV show on a 16:9 widescreen monitor, the image can be stretched to fill the entire screen. But with conventional plasma displays, that stretching process causes problems such as blocky, fuzzy, or over-stretched images. The Pioneer Elite plasma display panels have an exclusive Natural Re-Size function that re-shapes the picture and allows it to maintain a natural appearance without adding the artifacts that deteriorate picture quality.

**Digital Chroma Decoder (PRO-1130HD/PRO-930HD/PRO-1010HD)**

Color noise is another form of analog video interference — noticeable speckled imperfections seen within solid colors on your screen. The new Elite plasma display panels feature a 10-bit Digital Chroma Decoder to reduce noise and provide better frequency response, for pure, clean colors.

**Digital Noise Reduction Circuit and MPEG Noise Reduction Circuit**

**Special high-luminance cyclic digital Noise Reduction circuitry reduces random digital noise, including color noise and inconsistency (especially seen in dark image areas) that arise in the signal reproduction process of terrestrial broadcasts, DVDs, and others.**

The PRO-1130HD/PRO-930HD, PRO-1010HD, and PRO-810HD also come equipped with MPEG Digital Noise Reduction, which cuts “mosquito noise” caused by MPEG video compression used in DVD.


Interlaced signals of terrestrial broadcasts and DVD and PC video sources are up-converted into progressive signals for optimal viewing on the PRO-1130HD/PRO-1010HD (1,280 x 768-dot high-resolution) and the PRO-930HD/PRO-810HD (1,024 x 768-dot high-resolution). With the number of on-screen detection points significantly increased to 84, HD converter offers sharper, more natural images free of jagged edges and distortion seen on displays with conventional converters.

**Color Management**

The Color Management function allows individual adjustment of six basic colors. Red, yellow, green, cyan, blue, and magenta can be fine-tuned according to your preference (see table below for details), without losing the natural color balance of the whole picture. Turn the golf course a more vivid shade of green, or make the sea a deeper blue, for example.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Adjustible Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>R (Red)</td>
<td>Close to Magenta</td>
</tr>
<tr>
<td>G (Green)</td>
<td>Close to Yellow</td>
</tr>
<tr>
<td>B (Blue)</td>
<td>Close to Cyan</td>
</tr>
<tr>
<td>C (Cyan)</td>
<td>Close to Magenta</td>
</tr>
<tr>
<td>M (Magenta)</td>
<td>Close to Blue</td>
</tr>
<tr>
<td>Y (Yellow)</td>
<td>Close to Red</td>
</tr>
</tbody>
</table>

**Selectablr Screen Sizes (PRO-1130HD/PRO-930HD/PRO-1010HD/PRO-810HD)**

Whether you’re watching conventional television, wide-screen DVDs, or widescreen movies, the Pioneer Elite PDPs have five selectable screen modes that can handle any format. You can watch conventional broadcasts in traditional 4:3 mode, fill the entire screen with ZOOM or WIDE mode. When viewing DVDs and Digital TV, use the FULL Mode to perfectly match these widescreen (16:9) images to your screen. When watching widescreen movies, you can use CINEMA mode.

The Elite PDPs also come with a PC mode, which provides three selectable screen sizes for XGA signals. The PRO-1130HD and PRO-930HD come with a PC mode for non-XGA signals, too.
Multi-Window Display

The PRO-1130HD and PRO-930HD can even display a freeze frame of a broadcast. Just press the FREEZE button at the scene you want, and the screen is split to display a still image of the scene on the right, while continuing the broadcast on the left.

Subwoofer Output (PRO-1130HD/PRO-930HD)

The media receiver for the PRO-1130HD and PRO-930HD comes with a subwoofer output terminal. This lets you enjoy deeper bass with easy connection.

Speaker Systems (Optional)

The optional speaker systems — PDP-S56 for 50" panels and PDP-S55 for 43" panels — match the slim designs of the display panels, while still delivering superior sound. The speakers can be installed in two different ways:

Flash: The speakers are fixed flat against the sides of the display panel.

Air: The speakers are mounted slightly separate from the sides of the display panel, delivering a wider sound field.

Closed Caption Compatibility (PRO-1130HD/PRO-930HD)

The Closed Caption works with television programs and home videos displaying the Closed Captions allow the hearing-impaired to enjoy TV and videos on-screen. Captions allow the hearing-impaired to enjoy TV and videos displaying the logo for closed captions. Closed Captions help create fantastic picture quality, because it is completely resistant to electric signal interference from other devices.

The package includes:

- 100ft Optical Cable
- MDR Cable (29-1/2 Inches) x 2
- DVI Cable (29-1/2 Inches) x 2
- AC Adapter x 2
- Converter Box x 2

Three Surround Modes — SRS, TruBass, and FOCUS (PRO-1130HD/PRO-930HD)

To expand your sound options, the PRO-1130HD and PRO-930HD feature three surround modes: SRS, for dynamic 3-D surround sound; TruBass for surprisingly big, natural bass sound; and FOCUS, which enhances the surround effect and shifts the sound field upward. The units also permit simultaneous activation of TruBass and SRS.

Fiber-Optic Extension System (Optional)

Do you want to install your Elite Plasma Display Panel at a distance from its receiver? The FDA-H05, Pioneer’s fiber-optic extension system, makes it easier than ever — with high durability, improved cable strength, and stable signal transfer.

In conventional extension systems, converter boxes are connected by two fiber optic cables and two metal cables. Our extension system cuts through that troublesome wirework by integrating the functions of all four cables in just one 100ft fiber-optic cable (see illustration below). The cable combines a light, easy-to-handle weight with superior resistance to damage from bending. This is enabled by use of plastic optic fiber that boasts far better flexibility than conventional glass fiber.

In addition, plastic optic fiber helps create fantastic picture quality, because it is completely resistant to electric signal interference from other devices.

The package includes:

- 100ft Optical Cable
- MDR Cable (29-1/2 Inches) x 2
- DVI Cable (29-1/2 Inches) x 2
- AC Adapter x 2
- Converter Box x 2

Multi-Window Display

Functions of Two Optical Fiber Cables. Two Metal Cables are Integrated in Only One Optical Fiber Cable

AC Adapter

OLED Monitor

Multi-Window Display

Picture in Picture

Fiber-Optic Extension System

RS-232C Command List (PRO-1130HD/PRO-930HD)

<table>
<thead>
<tr>
<th>Command</th>
<th>Function</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>68 00H 01H</td>
<td>SET UP LEVEL</td>
<td></td>
</tr>
<tr>
<td>65 00H 02H</td>
<td>PICTURE MEMORY</td>
<td></td>
</tr>
<tr>
<td>64 00H 01H</td>
<td>OSM CONTRAST</td>
<td></td>
</tr>
<tr>
<td>63 00H 01H</td>
<td>BLACK LEVEL</td>
<td></td>
</tr>
<tr>
<td>60 00H 02H</td>
<td>ZOOM NAV</td>
<td></td>
</tr>
<tr>
<td>59 00H 01H</td>
<td>SUB.P DETECT</td>
<td></td>
</tr>
<tr>
<td>58 00H 01H</td>
<td>S1/S2 Select</td>
<td></td>
</tr>
<tr>
<td>56 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>55 00H 01H</td>
<td>Input Skip</td>
<td></td>
</tr>
<tr>
<td>54 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>53 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>52 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>51 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>50 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>49 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>48 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>47 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>46 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>45 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>44 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>43 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>42 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>41 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>40 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>39 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>38 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>37 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>36 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>35 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>34 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>33 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>32 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>31 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>30 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>29 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>28 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>27 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>26 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>25 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>24 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>23 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>22 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>21 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>20 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>19 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>18 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>17 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>16 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>15 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>14 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>13 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>12 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>11 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>10 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>9 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>8 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>7 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>6 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>5 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>4 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>3 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>2 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>1 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
<tr>
<td>0 00H 01H</td>
<td>Input MODE Request</td>
<td></td>
</tr>
</tbody>
</table>
Specifications (Display Panels)

- **Light Emission Panel**
  - 61 inch plasma display panel
  - 50 inch plasma display panel
  - 43 inch plasma display panel

- **Model and Color**
  - PRO-1410HD
  - PRO-1130HD
  - PRO-930HD
  - PRO-1010HD
  - PRO-810HD

- **Input Power**
  - AC 120V, 60Hz

- **Media Receiver (PRO-1130HD and PRO-930HD)**
  - DTV Set Top Box Connection (PRO-1010HD/PRO-810HD)

- **PC Signal Compatibility Table (PRO-1130HD/PRO-930HD)**

- **PC Signal Compatibility Table — Input 1 (D-sub)** and Input 5 (PRO-1010HD/PRO-810HD)
  - Applies to the PRO-810HD where specs differ from the PRO-1010HD.

- **SIGNAL ASSIGNMENT OF INPUT 1 (Mini D-sub 15 pin socket connector) (PRO-1410HD/PRO-1010HD/PRO-810HD)**

- **Signal Assignment of PC Input (Mini D-sub 15 pin socket connector) (PRO-1130HD/PRO-930HD)**

- **Dimensions**
  - Front Dimensions (W x D x H) 59-1/8" x 35-7/8" x 4-15/16"
  - 48-3/16" x 28-1/4" x 3-5/8"
  - 42-3/8" x 24-29/32" x 3-5/8"
  - 49-3/16" x 29-3/8" x 4-1/8"
  - 43-3/8" x 26-1/16" x 4-1/8"

- **Weight**
  - 9.9 lbs. (4.5kg)

- **Standby Power Consumption**
  - 0.9W
  - 0.2W
  - 0.2W
  - 0.6W
  - 0.6W

- **Audio Input**
  - Audio input (Audio input is shared with PC input)

- **Audio Multiplex**
  - BTSC system

- **Video Input**
  - Component Video input, S-Video input, Video input, Audio input, HDMI input*

- **AUDIO**
  - English/French/Spanish

- **CONTROL IN 1**

- **G-LINK 1**

- **Input 1**
  - Component Video input, S-Video input, Video input, Audio input, HDMI input*

- **Input 3**
  - Component Video input, Audio input, HDMI input*

- **Input 5**
  - Component Video input, Audio input, HDMI input*

- **DTV Set Top Box Connection (PRO-1010HD/PRO-810HD)**

- **Circuit Type**
  - PLL digital synthesizer system

- **Digital Audio Output**
  - Optical (1)

- **Video Signal Detection**
  - PLL full synchronous detection,
  - Circuit Type

- **Audio Format**
  - Dolby Digital

- **Signal Assignment of PC Input**

- **Others**
  - Power indicator (PRO-1130HD/PRO-930HD)
  - Standby power consumption

- **Specifications (Display Panels)**

- **PC Signal Compatibility Table (PRO-1410HD)**

- **Supported resolution**
  - When the screen size is 4:3, each signal is converted to a 1280 dots x 768 lines signal. (Except for *5, *3, *4)
  - When the screen size is DTV, the picture is displayed in the original resolution.
  - When the screen size is FULL, each signal is converted to a 1560 dots x 768 lines signal. (Except for *)

- **Input Type**
  - Data & Lines
  - Horizontal Frequency
  - Vertical Frequency
  - Screen Size
  - Memory

- **Horizontal Frequency**
  - 640 x 480: 59.9
  - 800 x 600: 56.2
  - 1024 x 768: 56.2
  - 1280 x 800: 53.1
  - 1280 x 1024: 60.0
  - 1280 x 768: 60.0
  - 1600 x 1200: 56.3
  - 1600 x 1200: 56.1
  - 1680 x 1050: 60.0

- **Vertical Frequency**
  - 640 x 480: 31.5
  - 800 x 600: 35.2
  - 1024 x 768: 45.1
  - 1280 x 800: 48.3
  - 1280 x 1024: 48.4
  - 1280 x 768: 48.4
  - 1600 x 1200: 53.7

- **Screen Size**
  - 4:3: 1024 x 768
  - 16:9: 1024 x 768

- **Memory**
  - YES*4
  - YES*7
  - YES*7
  - YES*4
  - YES*4
  - YES*4
  - YES*4
  - YES*7
  - YES*7
  - YES*7

- **NOTES**
- *2 Only when using a graphic accelerator board that is capable of displaying 852 x 480.
- *4 When the input is a 1280 dots x 1024 lines signal or 1600 dots x 1200 lines signal, the picture will be compressed.
- *7 While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- *8 Apple Macintosh is a registered trademark of Apple Computer, Inc. of the United States.
- *9 IBM PC/AT and "XGA" are registered trademarks of International Business Machines, Inc. of the United States.
**Note:** In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc...). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

### Supported Signals
- **HDMI input signals supported on this system:**
- **The 5-BNC connectors are used as PC2 and COMPONENT2 input. Select one of them under "BNC INPUT".

### COMPONENT input signals supported on this system:
- 480p (60Hz), 480i (60Hz), 525p (60Hz), 525i (60Hz), 720p (60Hz), 1035i (60Hz), and 1080i (60Hz).

### In/Outputs (PRO-1010HD/PRO-810HD)

#### INPUT TERMINALS (PRO-1410HD)

### Video Signal Compatibility Chart — Input 1 (D-sub) and Input 5 (PRO-1010HD/PRO-810HD)

### Accessories (PRO-1010HD/PRO-810HD)

### Accessories (PRO-1130HD/PRO-930HD)

### Media Receiver

### PRO-1410HD

### PRO-1010HD

### PRO-810HD

### Dimensions

- **Unit inch (mm)**

**PRO-1010HD**

**PRO-810HD**