

Pioneer *sound.vision.soul*

42-inch WVGA

Professional Plasma Display

Pioneer

Outstanding Brightness

Ultra High Contrast

Superior Colour Purity

42 inch Screen Size

16:9 Aspect Ratio

Wide Range of Inputs

High Reliability and Durability

Accessible Controls



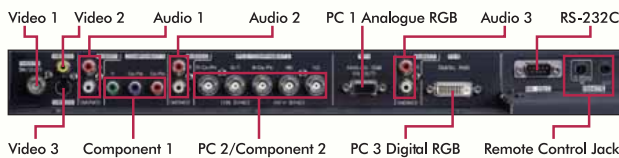
PDP-42MVE1

Introducing the 42-inch, user-friendly, professional WVGA plasma display from Pioneer.

Incorporating the latest plasma display technology with highly functional and easy to use features, professionals will appreciate the PDP-42MVE1's exceptional image quality, brightness and contrast.

Flexible connectivity

The PDP-42MVE1 also provides a large number of connection options to extend installation flexibility. Full details can be found in the specification section. Connections include PC1 (D-sub15), Component (RCA x 3), PC2/Component2 (BNC x 5), PC3 (DVI-D with HDCP) Video1 (BNC x 1), Video2 (RCA x 1) and Video3 (S-Video Terminal x 1). The PC1 and Video (BNC) terminals are also available as outputs. To further increase flexibility, audio inputs can also be switched to video to match audio from a separate source.



Control functions

The display is controlled through a Graphical User Interface and can be fully managed via a remote handset. The remote can be connected by wire to the display to control functions from outside of the room where the plasma is installed. Full RS-232C control is provided for remote management.

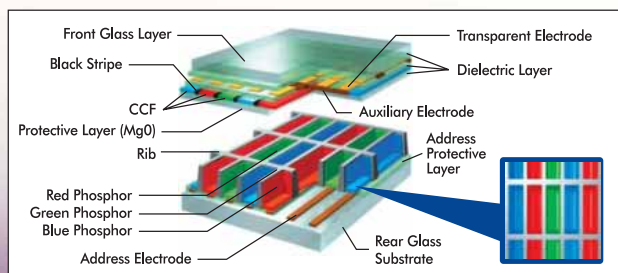
Power consumption and durability

Pioneer's Encased Cells create an extremely efficient plasma display that does not have to work as hard as alternative products to achieve similar brightness levels. This performance helps the PDP-42MVE1 achieve low power consumption.

Life cycle management is improved with the introduction of a range of screen management features. A programmable 'orbiter function' subtly moves the position of stationary images. This helps to prevent the PDP from being overworked in one particular area of the screen to significantly extend the working life of the display. An inverse mode and soft focus mode is provided to manage any effects produced by displaying static images.

Encased Cell Structure

The PDP-42MVE1 provides Pioneer's Encased Cell structure, which gives lower power consumption, pin sharp image quality and prevents light leakage between cells. This is one of the primary factors behind the superior performance of the display. The cells feature a larger phosphorous surface area that increases luminous efficiency, making the screen brighter and enhancing subtle details.



High-Precision Capsulated Colour Filter (CCF)

The PDP-42MVE1's precisely engineered CCF decreases light reflection for better viewing and filters out unnecessary elements in red, green and blue light for purer colour reproduction. Skin tones appear more natural, and all images, even fast-moving ones, are crisp and vivid.

Black Stripe

Inhibits the reflection of external light and enhances contrast to ensure that dark colours appear crisp and clear, even in bright settings.

Superior Image Processing Technology

Full Digital Processing:

From input to output, the video signal remains in the digital domain, ensuring noise-free, no-loss signal quality for the highest possible resolution of all types of input (video to PC).

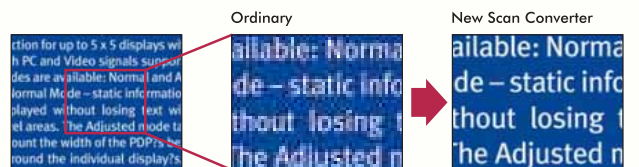
Gamma Selection:

Four gamma modes can be selected, allowing for a more precise display of tone gradations, even for images with low lighting.



New Scan Converter:

Converts input signals with high sampling accuracy so details such as small letters appear sharp and clear.



I/P Conversion and Scaling Large Scale Integrated (LSI) Components:

These LSIs smooth jagged edges, correct colour bleeds and select the ideal input resolution by simultaneously sensing both Y and C signals, resulting in images that are smooth and clean.





A Wide Range of Convenient Functions

Energy Saving and Screen Management

ABL (Auto Brightness Limiter) Lock provides three selectable modes to reduce power consumption when desired. Several Screen Management modes include: Orbiter – a programmable orbiter function which subtly moves the position of stationary images. Inverse – which quickly displays the image as negative. White Mask – which simply creates a mask in the image area.

Programmable Timer

The timer function features a convenient Weekly Timer with the following programmable functions: power on/off, input selection, activation of image burn-in prevention modes.

Video Wall Capabilities

The PDP-42MVE1 provides a video wall function for up to 5 x 5 displays with both PC and Video signals supported. Two modes are available: Normal and Adjusted. In Normal Mode – static information can be displayed without losing text within the bezel areas. Adjusted mode takes into account the width of the PDP's bezels that surround the individual display's, so that the image is completely distortion-free.

2 x 2



3 x 3

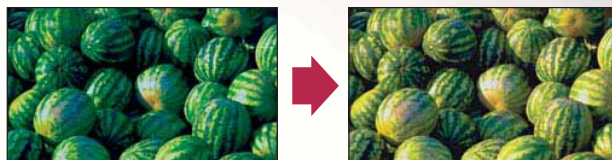


Point Zoom

Expands any portion of an image from one to nine times in 64 steps.

Colour Detail Adjustment

Colour adjustment can be performed for any primary or secondary colour without affecting the others. For example, you can change the colour of a logo to appear correct without changing surrounding colours in the image.



Other Features

- Disable On Screen Display (OSD)
- Power-On Programmable Input
- Various Colour Temperature Settings
- Wired or Wireless Remote Control
- Self Diagnosis
- Function Lock
- Input Skip
- Class B Compliant



Accessories



General Specifications

Effective Screen Size	921mm x 518mm
Aspect Ratio	16:9
Number of Pixels	853 x 480 (H x V)
Pixel Pitch	1.08mm x 1.08mm (Hor./RGB trio x Ver.)
Dimensions	1018mm x 610mm x 89mm (W x H x D)
Weight	28,5kg
Power consumption	270W (0,9W in Stand By)
Power requirements	AC 100-240V±10% 50/60Hz
Operating Temperature	0°C ~ 40°C
Operating Humidity	20% ~ 80%
Safety regulations	CE (EN60950-1, EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3), IEC60950-1 C-Tick (AS/NZS CISPR22 class B)

Video input signals

Composite & Y/C	NTSC (3,58/4,43), PAL (B,GM,N), PAL 60,SECAM
Component	50Hz: 576i, 576p, 625i, 625p, 720p, 1080i 60Hz: 480i, 480p, 525i, 525p, 720p, 1035i, 1080i
DVI-D with HDCP	50Hz: 1920 x 1080i, 1280 x 720p (No EDID Communication), 720 x 576p, 1440(720) x 576i 60Hz: 640 x 480p, 1280 x 720p, 1920 x 1080i, 720 x 480p, 1440(720) x 480i
PC	VGA-UXGA

Audio terminals

Connector	Signals	Level / Impedance
Audio 1	IN RCA x 2	L/R: 500mV rms / more than 22KΩ
Audio 2	IN RCA x 2	L/R: 500mV rms / more than 22KΩ
Audio 3	IN RCA x 2	L/R: 500mV rms / more than 22KΩ
Speaker	OUT	

Audio inputs are selectable to Video inputs

Connections

Connector	Signals	Level / Impedance
PC1*	Mini D-sub 15-pin G on Sync compatible	Analogue RGB signal RGB: 0,7Vp-p/75Ω G on Sync: 1Vp-p/75Ω HD/CS, VD:TFL Level/2,2KΩ
Component 1	RCA x 3	Compatible with Microsoft plug and play (VESA) DDC1/2B Component Video Signal Y: 1Vp-p/75Ω Pb/Cb, Pr/Cr: 0,525Vp-p/75Ω (75% saturation)
PC2/Component 2	BNC x 5	Analogue RGB Signal (G on Sync compatible) Component Video Signal Y: 1Vp-p/75Ω Pb/Cb Pr/Cr: 0,525Vp-p/75Ω (75% saturation)
PC3	DVI-D 24pin	Digital RGB Signal DVI-D with HDCP Compatible with Microsoft plug and play (VESA) DDC 2B
Video 1*	BNC x 1	Composite Video Signal 1Vp-p/75Ω
Video 2	RCA x 1	Composite Video Signal 1Vp-p/75Ω
Video 3	Mini DIN 4Pin (S-Video terminal) x 1	Y/C separate Video Signal Y: 1Vp-p/75Ω C: 0,286Vp-p/75Ω NTSC (0,3Vp-p/75Ω (PAL))

*PC1 and VIDEO can also be used as OUTPUT terminals

Control terminals

RS-232C	Connector Baud Rate	9600bps (D-sub 9Pin)
Remote control In/Out	Connector	3,5mm Mini jack (x 2)

The world leader in PDP quality and innovation

Pioneer's reputation as the world's leading manufacturer of plasma display panels was solidified in 1997 with the release of the world's first 50-inch WXGA model, and is further confirmed by our WVGA generation display, the PDP-42MVE1. We lead the industry not only in terms of performance

and functions, but also in the development of fundamental PDP technology. We proudly offer the highest quality of development, design and manufacture for all our PDPs. We ensure strict adherence to the highest quality standards, allowing Pioneer Corporation to achieve ISO 14001 certification.

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Plasma Display Panels are high technology devices and are manufactured to the highest quality possible within current technology. There may however be a minute number of inactive 'always lit' dots of red, green or blue visible on screen within the specification of the products. This does not indicate a malfunction.

Notice: This equipment is sold on the condition that it will be installed by a competent professional engineer with sufficient training and skill to carry out proper installation. Be sure to entrust the installation and set-up of this machine only to a competent professional or retail service engineer.

Pioneer cannot accept liability in cases where the equipment is damaged due to inappropriate installation location, improper assembly, installation, set-up, operation, renovation, or by natural disasters.

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