

40" Plasma Display



PDP-V402E

Professional Plasma Display



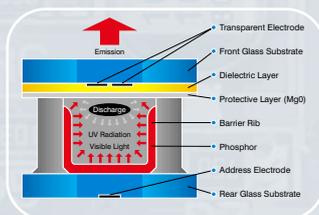
- 40" Screen Size
- 4:3 Aspect Ratio
- Black Stripe Screen for High Contrast
- High Brightness
- XGA Compatible with Pioneer's Optional Down Converter
- RS-232 Control Interface with Built-in Integrator Mode
- Wide Range of Mounting Options

**The Pioneer Professional Plasma Display combines a large screen within a lightweight ultra slim chassis, evolving existing PDP technology to meet the new visual presentation demands of the 21st century.**

The large screen PDP (Plasma Display Panel) boasts ultra-slim dimensions, is surprisingly light in weight and delivers stunning picture quality: - a combination of features that opens up a host of new and exciting opportunities for visual presentation, especially with the current growth in digital and multimedia technologies. As the advantages of PDP's over traditional CRT and projection-type displays become increasingly apparent, so plasma is consolidating itself as a core element in all types of presentation and public display systems. Pioneer has developed and mass-produced PDP's from the earliest inception of this state-of-the art technology. Our next generation, encompassing enhanced picture quality and durability, maintain Pioneers position as the industry leaders.

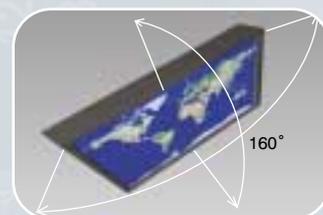
**Plasma Technology: How it Works**

Inert gas is trapped between two glass panels, separated by a gap of just 100-200 microns wide. UV light is generated by discharging the gas using electrodes. Red, green and blue phosphors absorb these UV discharges and re-radiate the energy as visible light to produce the colours that appear on the screen.



**Wider Viewing Angle**

Another important characteristic of plasma, is its effective visual field angle, which is in excess of 160 degrees (both horizontally and vertically). This enables spectators, for the first time, to enjoy sharp, on-screen images from virtually any viewing point, rather than simply front-on.



**Screen-to-Chassis Ratio**

Unlike traditional monitors or projection displays, plasma boasts extraordinarily slim dimensions relative to its generous screen size. Which means, screens can be installed almost anywhere.



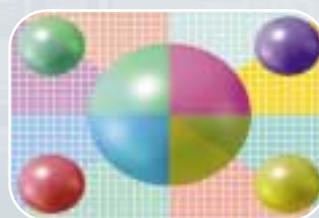
**Lightweight and Installer-Friendly**

In addition to their slender proportions, screens are also light in weight when compared with a conventional monitor, making them installation-friendly in either wall or ceiling-mounted applications.



**Accurate Display Characteristics**

The use of a true flat-panel screen ensures images being displayed are always perfect and distortion-free. Instant set-up with convergence-free operation assures the image quality will always be the same every time the plasma is switched on.



**Free from Magnetic Interference**

As plasma screens are not affected by magnetic fields, the PDP-V402E can be sited close to loudspeakers without the fear of screen distortion, generally caused by magnetic interference.



# VGA 40" - 4:3 Plasma Display



## 2nd Generation Professional Plasma Display

### Taking Versatility A Step Further

- Whilst inheriting its predecessor's slim dimensions (only 88mm depth) and light weight (31.6kg), the new PDP-V402E now boasts improved environmental tolerance, durability and reliability for use in professional applications.

### Higher Brightness and Enhanced Picture Quality

- Enhanced drive power efficiency now realises brighter on-screen images.
- Pioneer's black stripe panel together with new enhanced filters, produces a high level of contrast in bright environments and improved colour fidelity.

### 4:3 Aspect Ratio

- The PDP-V402E employs a conventional 4:3 aspect ratio which means full video and PC signals can be displayed without the need for editing - a highly convenient feature when using archive material that cannot be stretched or distorted.

### Compatible with A Wide Range of Input Signals

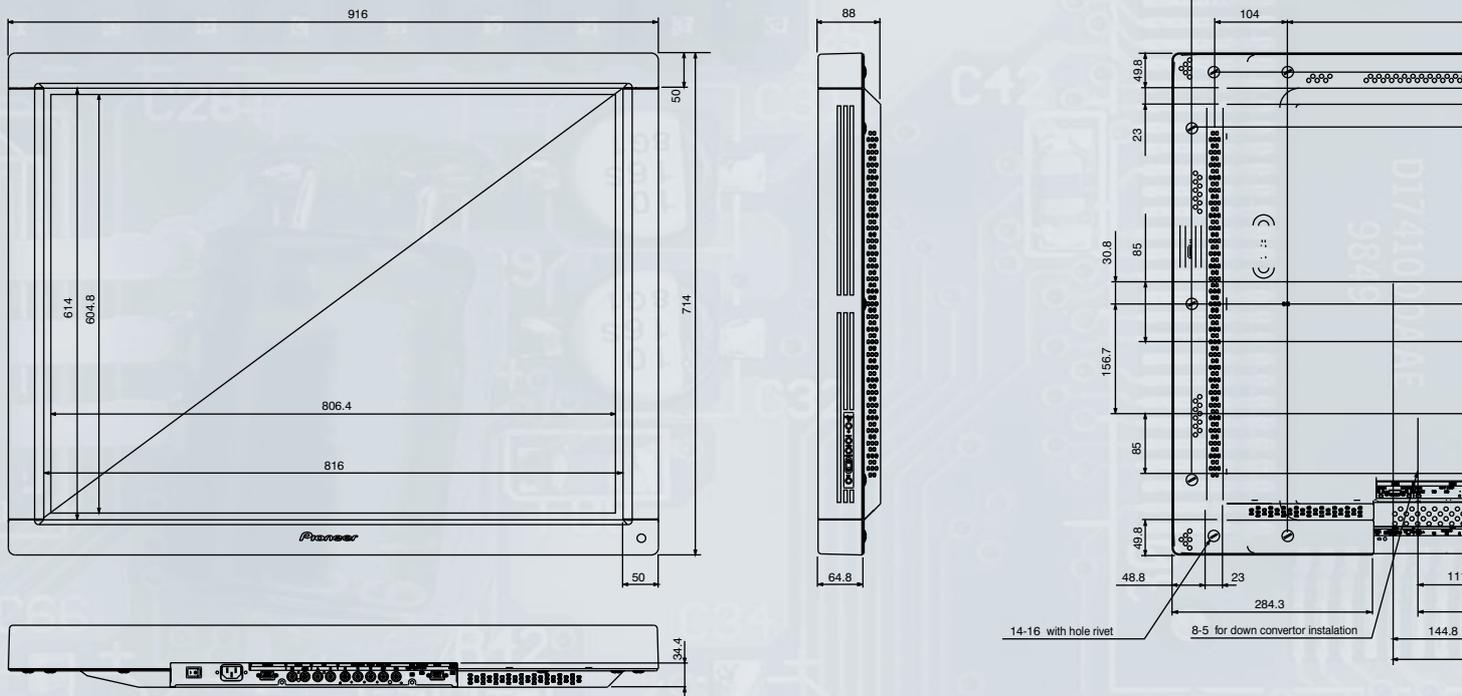
- The PDP-402E clearly displays the following signals - Composite, Y/C, RGB and VGA (640 x 480 dot).
- When connected to Pioneer's PDA-4003 high-performance down converter, the standard display is able to accept a wider range of PC input signals up to XGA (1024 x 768 dot). The multi-step interpolation technology used eliminates the problem of information 'drop' when displaying small characters or reproducing fine detail. This ensures that regardless of what kind of signal is sent to the plasma it will always display high quality flicker free images.

### Perfected Functions for Professional Applications

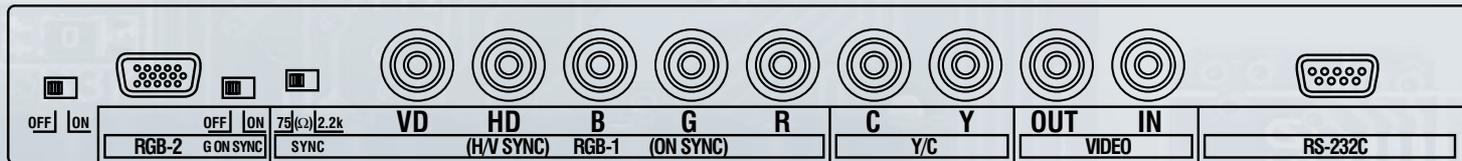
- This plasma display is equipped with a range of features especially for professional users. These include an integrator mode\*, fine white balance adjustment with switching function, key lock to prevent tampering, operating status monitor, priority input switching, OSD (On Screen Display) and a wealth of professional input/output connectors.

\* This can also be controlled with an external RS-232C control interface

## Dimensions



## Terminal Configuration



## Mounting Options and Accessories

**Angled Table Top Stand PDK-4001**



**Ceiling Mount PDK-4002**



**Twin Ceiling Mount PDK-4003**



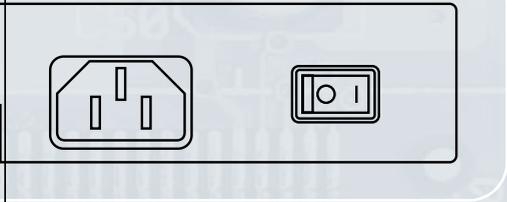
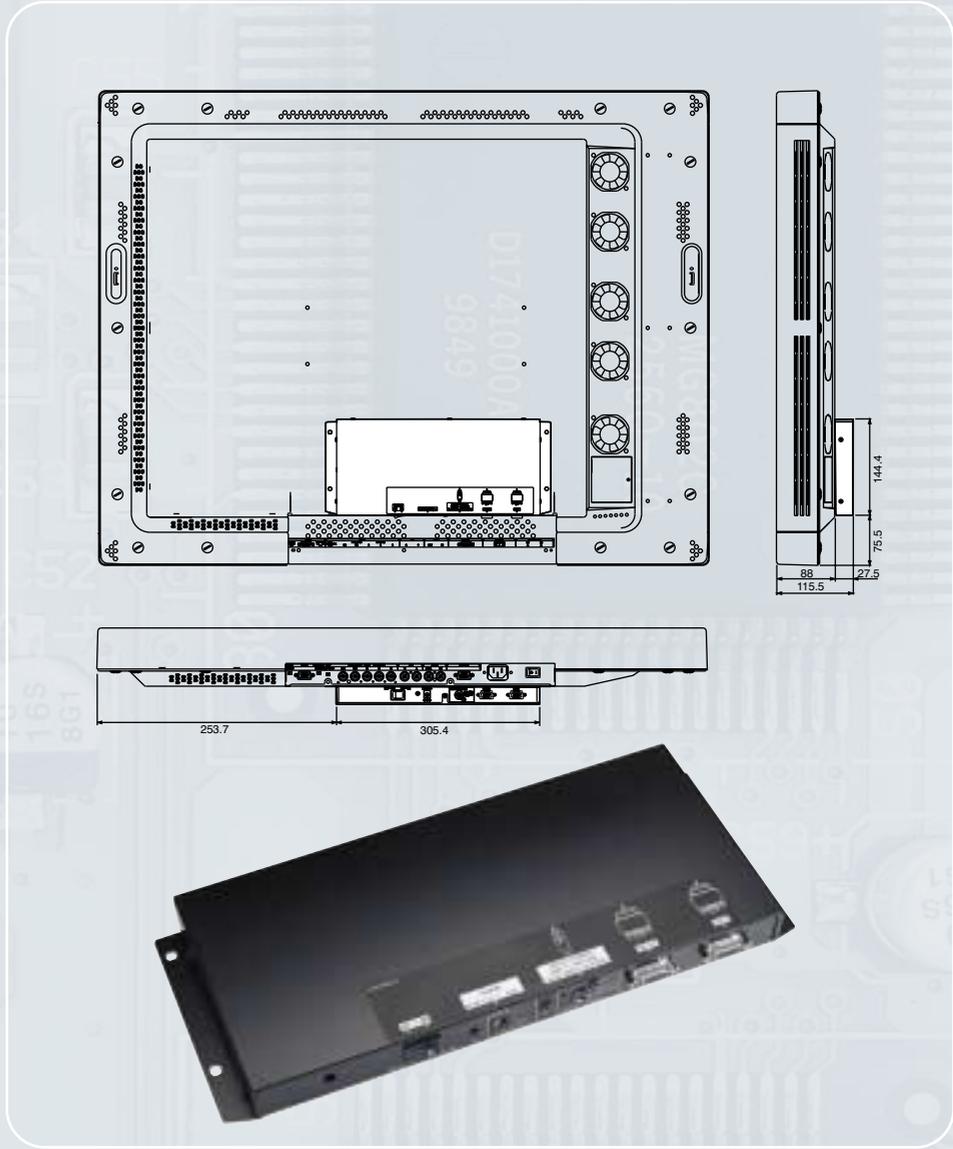
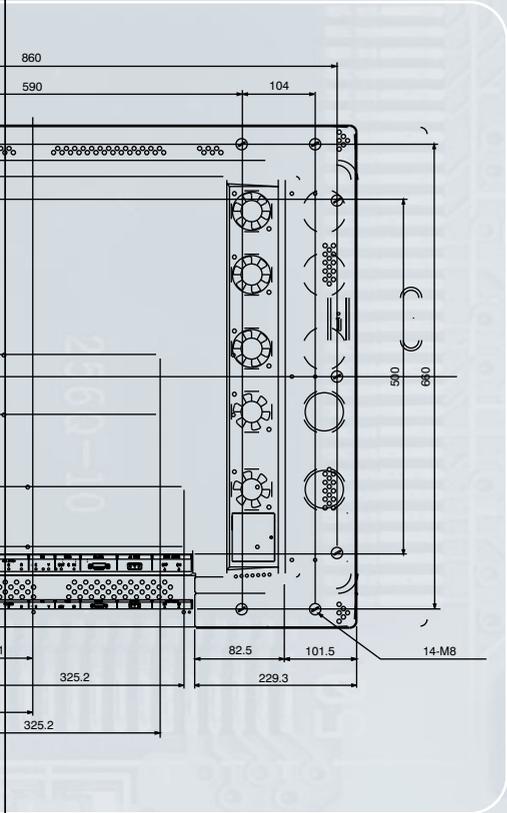
**Suspended Ceiling Mount PDK-4004**



**PDP Bracket PDK-4005**



# PDA-4003 Down Converter (Optional)



**Angled Wall Bracket  
PDK-4006**

Image of the Angled Wall Bracket PDK-4006, showing the bracket and a plasma display mounted on it.

**Mobile Stand  
PDK-5008**

Image of the Mobile Stand PDK-5008, showing a plasma display mounted on a stand with wheels.

**Plasma Frame System  
PDM-4001**

Image of the Plasma Frame System PDM-4001, showing the frame and a plasma display mounted on it.

**Protective Filter  
PDA-4002**

Image of the Protective Filter PDA-4002, showing a white protective filter mounted on a frame.

**Side Mount Speakers  
PDP-S03-LR**

Image of the Side Mount Speakers PDP-S03-LR, showing two vertical twin-system speakers.

These vertical twin-system speakers mount either side of the plasma display. Each combines a dome-type tweeter sandwiched between two high power woofers

Max. output .....12 W/8 ohms  
Dimensions (W x D x H) ...74 x 98 x 714 mm  
Weight.....2.7 kg x 2

## PDP-V402E Specifications

Effective Screen Size (W x H)	806.4 x 604.8 mm (40" diagonal)
Aspect Ratio	4:3
Number of Pixels	640 (Hor) x 480 (Ver)
Pixel Pitch	1.26mm (Hor/RGB trio) x 1.26mm (Ver)
Colour Resolution	256 grey scale 16.7 million colours
Brightness	400 Cd/m <sup>2</sup> (white peak)
Contrast Ratio	150:1 (dark environment)
Viewing Angle	More than 160° (Hor) - 160° (Ver)
Dimensions (W x H x D)	916 x 714 x 88 mm
Weight	31.6 kg
Power Consumption	350W (2W at standby)
Power Requirements	AC220 ~ 240V ± 10% 50/60Hz (3.5A)
Operating Temperature	0°C ~ 40°C
Operating Humidity	20 ~ 80%
Operating Air Pressure	0.8 ~ 1.1 atmospheric pressure
Safety Regulation	CE-Marking (CISPR-A), TUV

## Video Input Terminals

		Connector	Level / Impedance
Composite Video		BNC	1Vp-p/75Ω
Y/C Separation Signal	Y	BNC	1Vp-p/75Ω
	C	BNC	286mVp/75Ω
Analogue RGB Signal	RGB	BNC	700mVp-p/75Ω
	SYNC		2~5Vp-p/75Ω 2.2k switchable
	RGB	Mini D-sub 15-pin	700mVp-p/75Ω
	SYNC		2~5Vp-p/75Ω
Video Input Signal	PAL, NTSC		

## Video Output Terminal

	Connector	Level / Impedance
Composite Video	BNC	1Vp-p/75 Ω

## Personal Computer Input Signal (without PDA-4003)

Format	Resolution	Vertical Frequency	Horizontal Frequency
PC/AT Compatible	640 x 480	60.0 Hz	31.5 kHz
	640 x 480	72.8 Hz	37.9 kHz
	640 x 480	75.0 Hz	37.5 kHz
	640 x 480	66.7 Hz	35.0 kHz
Macintosh 13" Monitor	640 x 480	66.7 Hz	35.0 kHz
PC-9800	640 x 400	56.4 Hz	24.8 kHz
	640 x 400	70.1 Hz	31.5 kHz

## Accessories

Accessories Included		Optional Accessories
Remote Control Unit	x 1	Down Converter (PDA-4003)
Remote Control Unit Case	x 1	Protective Filter (PDA-4002)
AA(R6) Battery	x 2	Side Mount Speakers (PDP-S03-LR)
Cable Clamp	x 3	Angled Tabletop Stand (PDK-4001)
Desktop Stand	x 2	Ceiling Mount (PDK-4002)
Washer	x 2	Twin Ceiling Mount (PDK-4003)
Bolt	x 2	Suspended Ceiling Mount (PDK-4004)
Operation Manual	x 1	PDP Bracket (PDK-4005)
		Angled Wall Bracket (PDK-4006)
		Mobile Stand (PDK-5008)
		Plasma Frame System (PDM-4001)

## Control Terminal

RS-232C	Connector	D-sub 9-pin
	Baud rate	1200, 2400, 4800, 9600, 19200bps

## PDA-4003 Down Converter Specifications

Input Resolution*	From 640 x 480 (VGA) to 1024 x 768 (XGA)
Input Connector	Mini D-sub 15-pin
Signal	RGB signal (G on Sync compatible)
Output Connector	Mini D-sub 15-pin
Signal	RGB
Dimensions (W x H x D)	338 x 150 x 28 mm
Weight	1 kg
Power Requirements	AC 100 V ~ 240 V ±10% , 50/60 Hz 0.8A (DC9.3V)

\*Connect Directly to PDP-V402E if only inputting a VGA signal

### Accessories Included

AC Adapter - Power Cable (2.0m)	x 1
RGB Cable	x 1
Wireless Remote Control	x 1
AA(R3) Battery	x 2
Rivet	x 8
Operation Manual	x 1
Rubber Cushion	x 4
Velcro	x 2
Binder	x 10
Cable Strap	x 1

## PDA-4003 Down Converter Input Signal

Format	Resolution	Vertical Frequency	Horizontal Frequency
PC/AT Compatible	640 x 480	72.8 Hz	37.9 kHz
	640 x 480	75.0 Hz	37.5 kHz
	640 x 480	85.0 Hz	43.3 kHz
	800 x 600	56.2 Hz	35.2 kHz
	800 x 600	60.3 Hz	37.9 kHz
	800 x 600	72.0 Hz	48.1 kHz
	800 x 600	75.0 Hz	46.9 kHz
	800 x 600	85.0 Hz	53.7 kHz
	1024 x 768	43.0 Hz	35.5 kHz
	1024 x 768	60.0 Hz	48.4 kHz
Macintosh 13" Monitor	640 x 480	66.7 Hz	35.0 kHz
	640 x 480	66.7 Hz	35.0 kHz
	640 x 400	56.4 Hz	24.8 kHz
	640 x 400	70.1 Hz	31.5 kHz
	640 x 480	66.7 Hz	35.0 kHz
	640 x 480	66.7 Hz	35.0 kHz
	640 x 480	66.7 Hz	35.0 kHz
	640 x 480	66.7 Hz	35.0 kHz
	640 x 480	66.7 Hz	35.0 kHz
	640 x 480	66.7 Hz	35.0 kHz
Macintosh 16" Monitor	832 x 624	74.6 Hz	49.7 kHz
Macintosh 19" Monitor	1024 x 768	74.9Hz	60.2 kHz

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### 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.

# Pioneer

## Professional Plasma Display

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