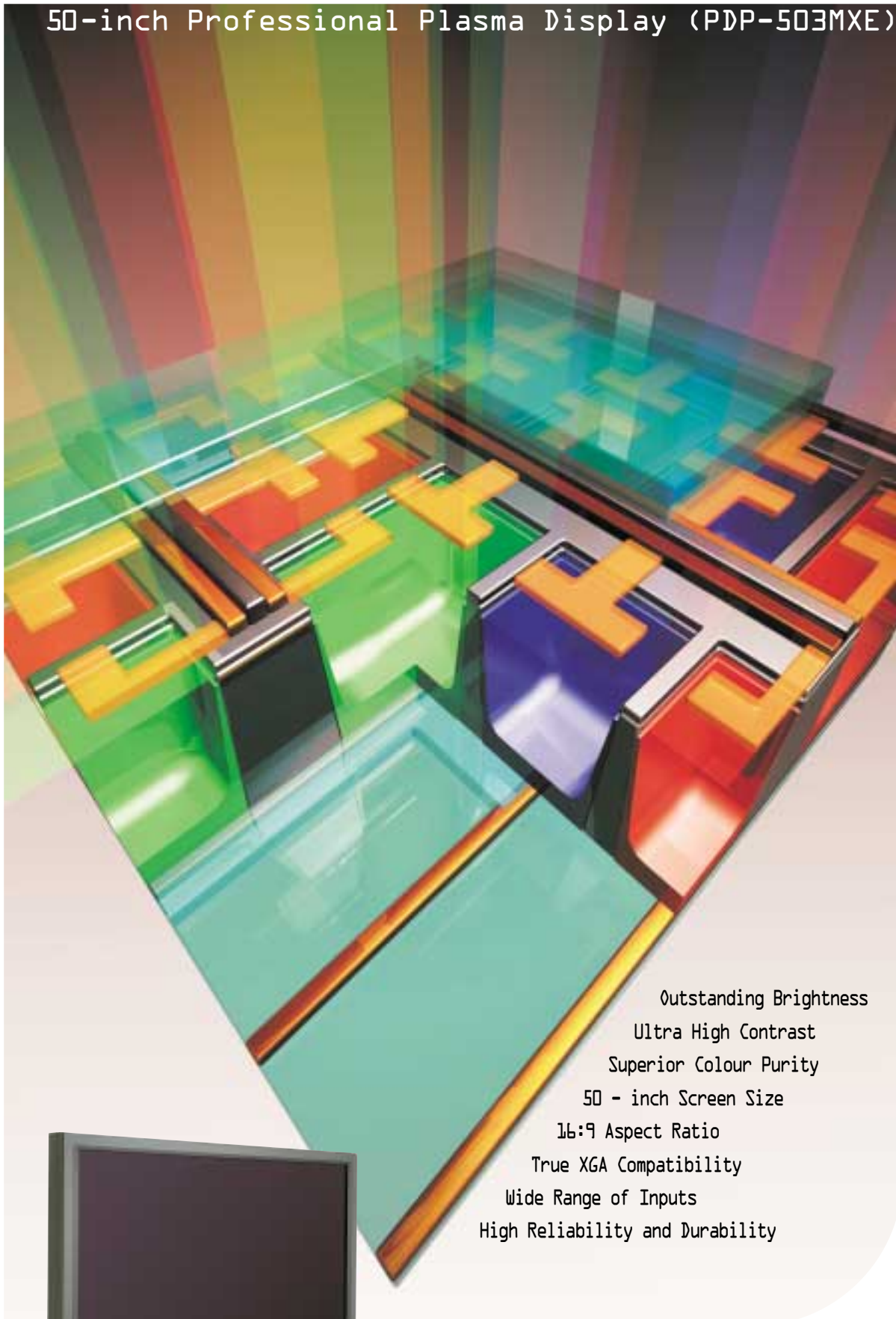


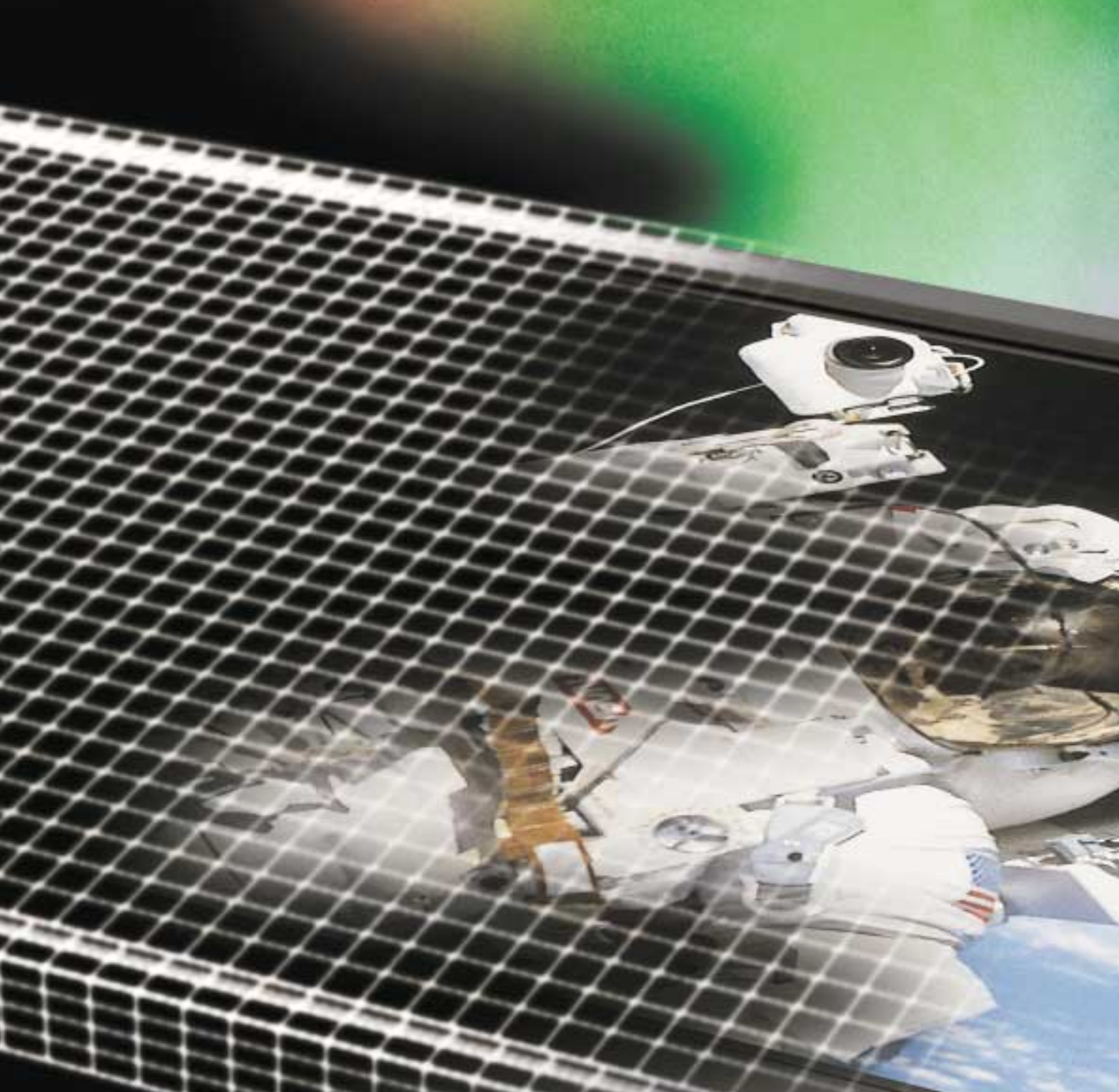
Pioneer *sound.vision.soul*

50-inch Professional Plasma Display (PDP-503MXE)



- Outstanding Brightness
- Ultra High Contrast
- Superior Colour Purity
- 50 - inch Screen Size
- 16:9 Aspect Ratio
- True XGA Compatibility
- Wide Range of Inputs
- High Reliability and Durability





For the effective presentation of images and data, the
PDP-503MXE is simply the best choice

Pioneer's advancements in developing plasma technology over the last five years are such that almost every level of performance and display have been significantly enhanced. Building on the inherent advantages of the Pioneer plasma display system, the PDP-503MXE has taken plasma display performance to an entirely new level. Reliability and durability are even more impressive than before and operating ease and versatility have both been upgraded. The PDP-503MXE is energy-efficient and environmentally friendly, making it the best choice for professional display applications.

The PDP-503MXE 50-inch XGA Professional Plasma Display



Pioneer's strong commitment to PDP development makes
them the world leader

Their reputation as the world's leading manufacturer of plasma display panels was established in 1997 with the release of the world's first 50-inch XGA model and will be further enhanced by the PDP-503MXE. Pioneer lead the industry, not only in terms of performance and functions, but also in the development of fundamental PDP technology. Pioneer PDP's are designed to meet a wide variety of application requirements and are used world-wide at airports, train stations, in retail, at trade shows, industrial control centres and electronic advertising. They are also highly effective as corporate presentation tools.

Pioneer are unique in that they develop, design and manufacture their PDP's entirely in house and in fact are the only manufacturer with a yield rate high enough to make this possible. What's more, the Pioneer Corporation and the Shizuoka Pioneer Corporation, where PDP products are developed have both achieved ISO 14001 certification.

The most advanced features for the most demanding environments

High reliability and durability

The durability of the plasma is closely related to brightness management. Pioneer has developed a method of influencing the lifetime of a plasma. The linear brightness mode fixes a peak brightness regardless of how big the bright area is, so brightness increases linearly with the input signal increase. In normal circumstances when a dark image is displayed, peak brightness will become higher to enhance the contrast. This method slows down the decay of phosphor.

There are a number of other screen saver functions:

Orbiter mode: Automatically changes the display position.

Inverse mode: Reverses the image.

Full mask: Turns the entire screen into a single colour (RGB or white), this can be operated with an off timer.

Still picture detection and automatic dimmer

Brightness difference detection and automatic brightness adjustment: This detects pictures with minor movement by monitoring the cumulative average brightness of 512 divided blocks and activates automatic dimmer.

Economical and environmentally friendly



The PDP-503MXE offers the lowest power consumption (380W) in the 50-inch XGA class. In the power save mode, power consumption is reduced by as much as 20%. All plastic parts are made of halogen free material rather than the halogen type fire resistant materials generally believed to be a source of dioxins during incineration. Metal parts have chrome free plating wherever possible.

The PDP-503MXE satisfies the standards of the International Energy Star Programme (without the use of PDA-5002).

WHQL compatibility and easy operation



In order to ensure compatibility between the PDP-503MXE and Microsoft Windows, the PDP-503MXE has been designed to meet the standards of the Windows Hardware Qualification Labs (WHQL), it can be used confidently in a Windows environment.*

*Compatible with Microsoft Plug & Play (VESA DDC 1/2B)

An auto set-up function allows automatic screen adjustment with a single touch via the remote control when inputting a wide variety of PC data. To further highlight presentations, a point zoom function allows instant expansion of any portion of the image to four different sizes.

Installer and operator features

- Integrated mode permits precise white balance adjustment, as well as control of various functions such as the off timer, the on screen display and the baud rate.
- RS-232C external control interface and combination terminals permit central control of several units.
- 2 x 2 mode allows a single image to be split on four PDPs.
- Monitor function for remote observation of detailed operating status and others.
- Expansion slots offer open architecture to further expand business use.

Wide, flat and thin



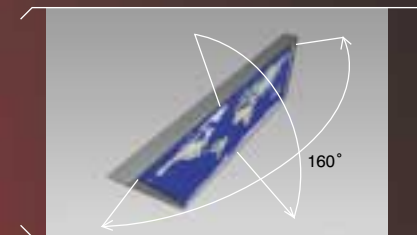
Compared to an ordinary CRT monitor, the large 50 - inch PDP screen is perfectly flat, yet elegantly slim — only 98mm deep. There really is no comparison.

Lightweight for easy mounting



PDP units are relatively light compared to CRT monitors. They can be secured to a mobile, floor or tabletop stand, and easily mounted on walls and ceilings.

Wider viewing angle



PDPs provide a wider viewing angle than conventional monitors and LCD screens: more than 160°, both horizontally and vertically. Spectators are ensured of a clear view from either side or below the screen, vital for public displays.

High precision imaging



PDPs deliver high precision, distortion-free edge-to-edge images.

Free from magnetic interference



Unlike ordinary TVs, PDPs do not suffer from image distortion or colour inaccuracy caused by nearby magnetic fields.



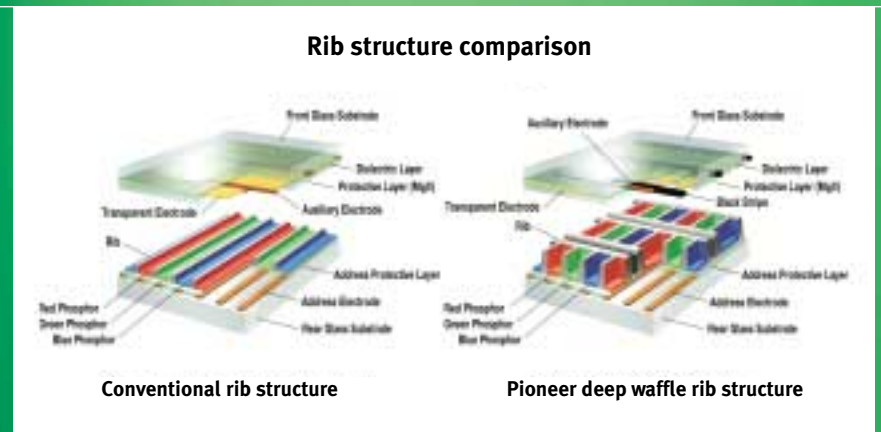
Existing Installations

- (Left To Right)
- Call Centre (EWS)
 - Banking (Ega Bank)
 - Presentation (BT)
 - Passenger Information (Arlanda Airport)
 - Retail (Kookai)
 - Control Room (Intersolve)
 - Entertainment (Cirsa)

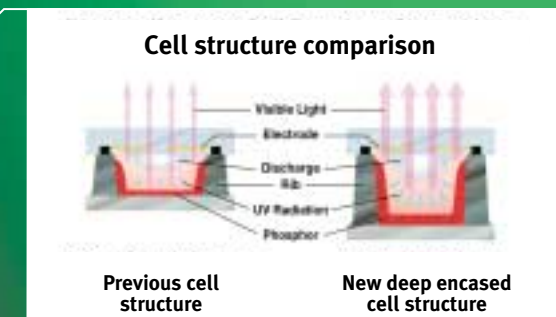
Breaking new frontiers with advanced technology

The plasma display technology, in the PDP screen consists of two panels of glass with nearly a million pixels sandwiched between them. The pixels consist of tiny cells holding 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 then radiate visible light to produce better, brighter colour images.

True matrix imaging with deep waffle rib structure



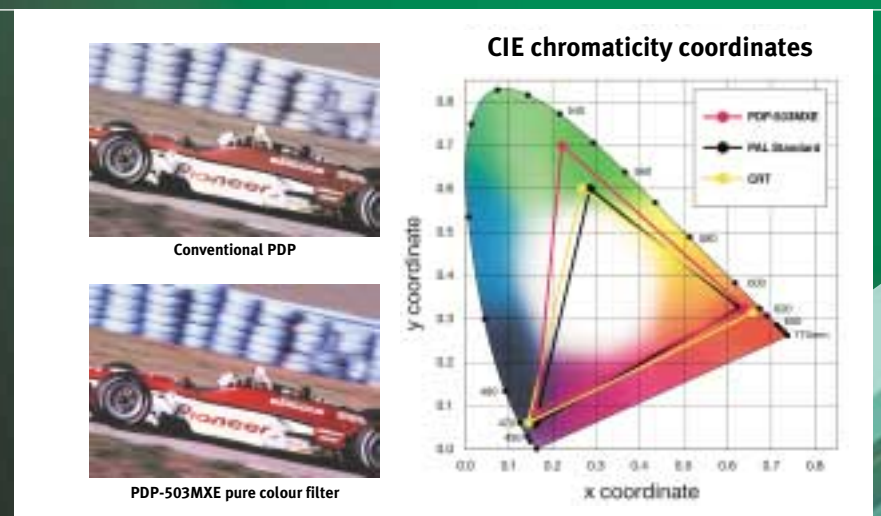
Other PDP's simply have rows of cells. Pioneer is the only manufacturer that has developed the waffle rib structure, which eliminates light leakage from neighbouring cells both above and below thereby improving image clarity. Pioneer has now further enhanced this technology, ensuring a superior illumination efficiency by making each cell deeper thus increasing the phosphor volume. This results in higher light emission efficiency, giving brighter images (900 candela's) - 60% higher than the previous model. This has also given the PDP-503MXE the lowest power consumption in its class.



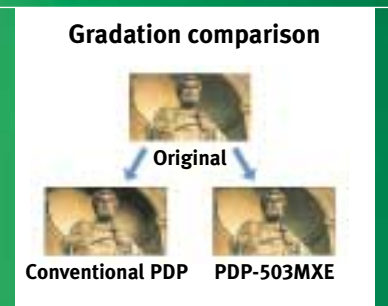
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Pure colour filter and black stripe

The PDP-503MXE uses a new pure colour filter and innovative black stripes that greatly decrease external light reflectivity by as much as 30% (depending on conditions). The result is significantly higher contrast, providing an extremely clear display in light intensive environments. At the same time, it reduces the unnecessary frequency components of the red, green and blue signals. This results in improved colour reproduction and colour purity beyond traditional CRT. Such innovation enables viewers to enjoy sharp pictures, without reduction in black contrast.

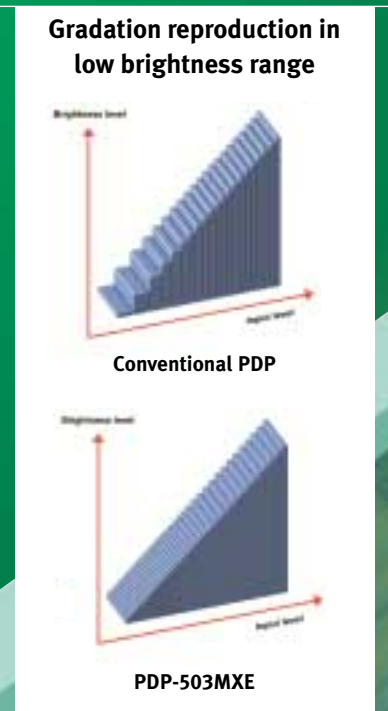


Advanced CLEAR* drive technology



Most plasma displays require a continuous fixed discharge level, known as the reset level in order to display an image. However if this level is too high it can produce negative display qualities. Pioneer's CLEAR drive technology has succeeded in almost eliminating the need for a reset level and in eliminating false contours of poor gradation areas. Details such as shadow or flesh colours that were previously obscured by a conventional PDP can now be seen clearly. Conventional PDP's exhibit only rough gradations in the low brightness range, so image quality in darker areas is inferior. The PDP-503MXE's gradation slope is much smoother (576 million colours) and is approximately 16 times better than other PDP's in this range. Even with dark images, detailed patterns are accurately reproduced.

* High Contrast Low Energy Address and Reduction of False Contour Sequence.



Flicker - free technology

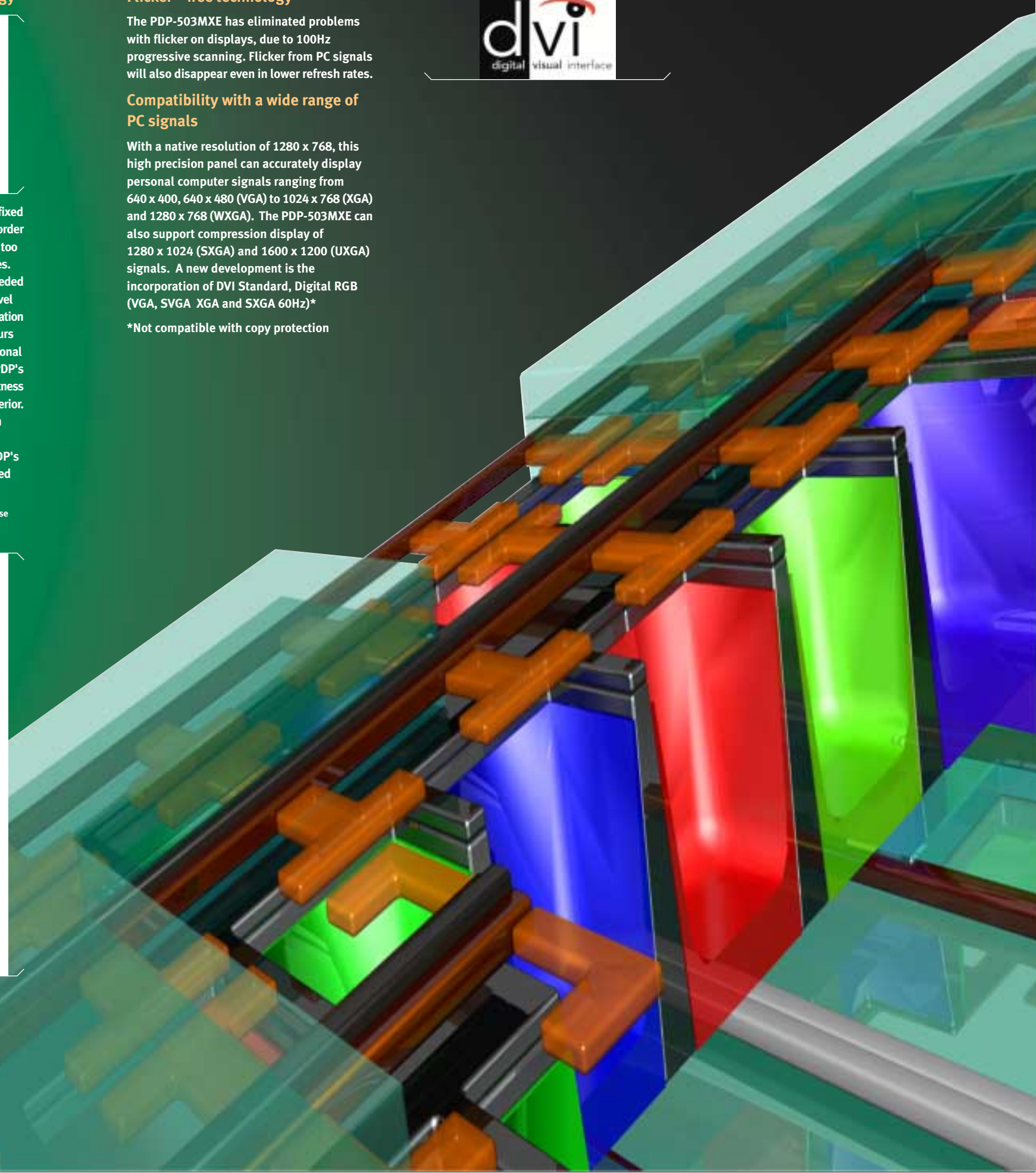
The PDP-503MXE has eliminated problems with flicker on displays, due to 100Hz progressive scanning. Flicker from PC signals will also disappear even in lower refresh rates.



Compatibility with a wide range of PC signals

With a native resolution of 1280 x 768, this high precision panel can accurately display personal computer signals ranging from 640 x 400, 640 x 480 (VGA) to 1024 x 768 (XGA) and 1280 x 768 (WXGA). The PDP-503MXE can also support compression display of 1280 x 1024 (SXGA) and 1600 x 1200 (UXGA) signals. A new development is the incorporation of DVI Standard, Digital RGB (VGA, SVGA XGA and SXGA 60Hz)*

*Not compatible with copy protection



A complete range of mounts and accessories

Optional video card

PDA-5002 (This video card allows digital RGB and video input).



Video input/output terminals.

Composite video signal:	Input (BNC)	x 1
	Output (BNC)	x 1
Y/C separate video signal:	Input (S-terminal)	x 1
Digital RGB input terminals (DVI standard).		
Digital RGB signal:	Input (DVI-D 24-pin)	x 1
Individual resolution of VGA, SVGA, XGA, SXGA should apply to a vertical frequency of 60Hz. (Not compatible with copy protection).		
Audio input terminals.		
Audio signal:	L/R Input (pin x 2)	x 2

Optional side-mount speakers

PDP-S05-LR



2-way speakers with a dome tweeter and a newly designed perpendicularly installed oval unit. These speakers are compact, yet deliver wide-range performance.

Maximum output	12W/8 Ω
Dimensions (WxHxD)	74 x 714 x 101mm
Weight	1.8 kg x 2

Ceiling mount kit

PDK-5012



Adjustable angled ceiling mount for overhead installations.

Angled wall mounting bracket

PDK-5011



Multi-purpose bracket for flexible installations.

Table top stand

PDK-TS01



Table top stand for desk or boardroom installations.

Cable covers

PDA-P01

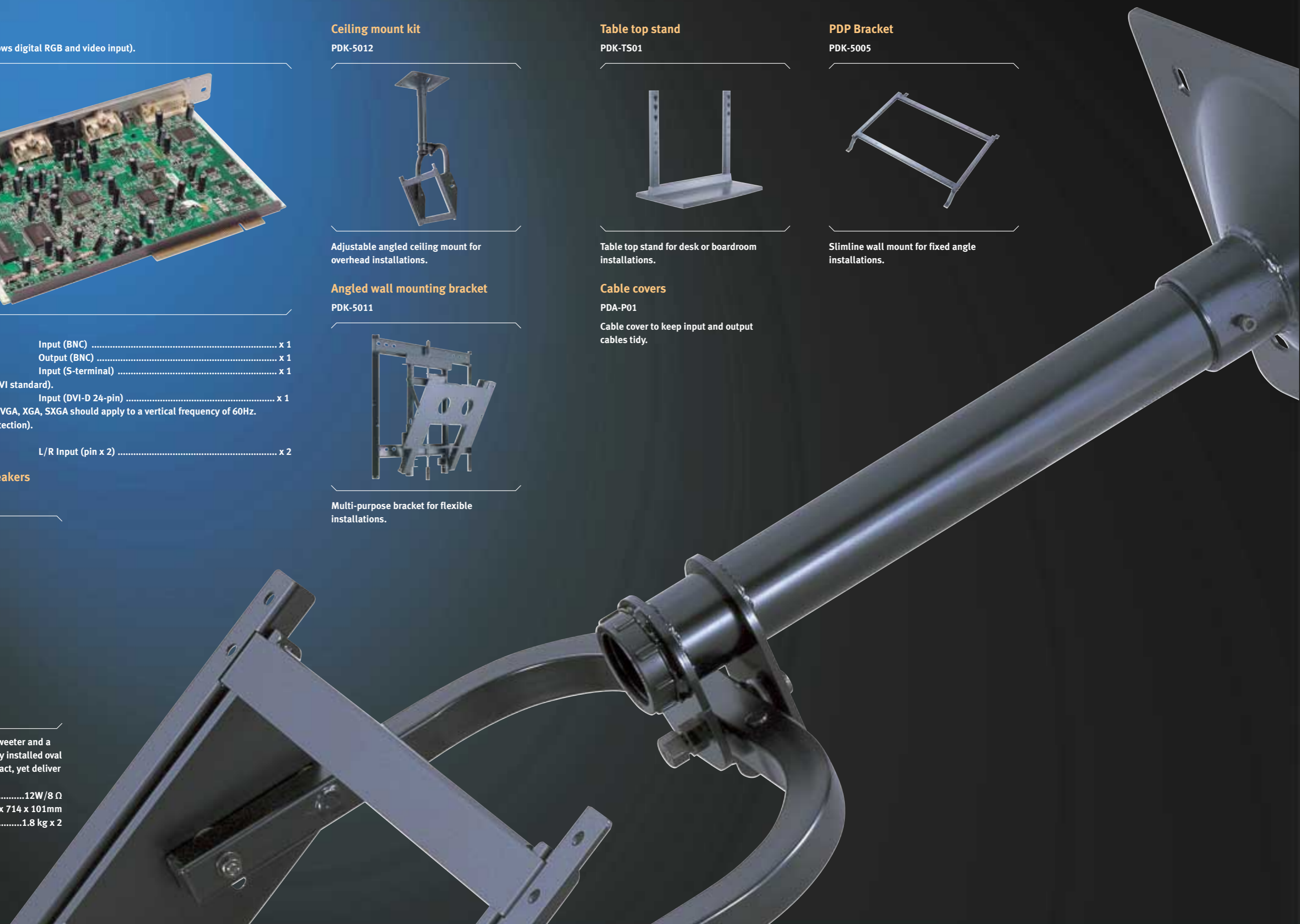
Cable cover to keep input and output cables tidy.

PDP Bracket

PDK-5005



Slimline wall mount for fixed angle installations.



Specifications

PDP-503MXE General specification

Effective screen size (W x H)	1098.2 x 620.5mm (50 - inch diag)
Aspect ratio	16:9
Number of pixels	1280 (Hor) x 768 (Ver)
Pixel pitch	0.858mm (Hor/RGB trio) x 0.808mm (Ver)
Colour resolution	832 grey scale, 576 million colours
Brightness	900 cd/m ² (white peak)
Contrast ratio	900:1 (dark environment)
Viewing angle	More than 160°(Hor) more than 160°(Ver)
Dimensions (W x H x D)	1218 x 714 x 98mm
Weight	38.9kg
Power consumption	380 W (1W at stand by)
Power requirements	AC 100 ~ 240V ±10%, 50/60Hz (3.8-1.6A)
Operating temperature	0°C ~ 40°C
Operating humidity	20% ~ 80%
Operating atmospheric pressure	0.8 ~ 1.1 atmospheric pressure
Safety regulations	CE (EN60950, EN55022 classB, EN55024, EN61000-3-2, EN61000-3-3), IEC950, C-Tick (AS/NZS3260, AS/NZS3548)

PDP-503MXE Video input/output terminals

Input	IN	Connector	Signal	Level / Impedance
Input 1	IN	Mini D-sub 15-pin	RGB signal (G on Sync compatible)	RGB : 0.7Vp-p/75Ω G on Sync : 1Vp-p/75Ω HD/CS,VD : TTL level/2.2kΩ
			Compatible with Microsoft Plug & Play (VESA DDC 1/2B)	75Ω
Input 2	IN	BNC x 5	RGB signal (G on Sync compatible)	RGB : 0.7Vp-p/75Ω G on Sync : 1Vp-p/75Ω HD/CS,VD : TTL level/75Ω or 2.2kΩ switchable
			OUT	Mini D-sub 15-pin

PDP-503MXE Audio input/output terminals

Audio input (Input 1/2)	IN	Connector	L/R : 500mVrms/more than 10kΩ
Audio output	OUT	Stereo mini	L/R : 500mVrms/less than 5kΩ (Fix) L/R : 0 ~ 500mVrms/less than 5kΩ (Variable)
Speaker	OUT		L/R : 8 ~ 16Ω/2W + 2W (8Ω)

PDP-503MXE Personal computer input signal

Resolution (dot x line)	Vertical frequency	Horizontal frequency	Usage
640 x 400	56.4 Hz	24.8 kHz	NEC PC-9800
	70.1 Hz	31.5 kHz	NEC PC-9800
	85.0 Hz	43.3 kHz	(852 x 480) (864 x 480)
640 x 480	60.0 Hz	31.5 kHz	Apple Macintosh 13"
	66.7 Hz	35.0 kHz	
	72.0 Hz	37.9 kHz	
	75.0 Hz	37.5 kHz	
	85.0 Hz	43.3 kHz	
800 x 600	56.0 Hz	35.2 kHz	
	60.0 Hz	37.9 kHz	
	72.0 Hz	48.1 kHz	
	75.0 Hz	46.9 kHz	
	85.0 Hz	53.7 kHz	
832 x 624	74.6 Hz	49.7 kHz	Apple Macintosh 16"
852 x 480	60.0 Hz	31.7 kHz	
1024 x 768	60.0 Hz	48.4 kHz	
	70.0 Hz	56.5 kHz	
	75.0 Hz	60.0 kHz	
1152 x 864*	(74.9 Hz)	(60.2 kHz)	() Indicates Apple Macintosh 19"
	85.0 Hz	68.7 kHz	
	60.0 Hz	53.7 kHz	
1152 x 870*	72.0 Hz	64.9 kHz	
	75.0 Hz	67.7 kHz	
	75.1 Hz	68.7 kHz	Apple Macintosh 21"
1152 x 900*	66.0 Hz	61.8 kHz	Sun Microsystems LO
1280 x 768	76.0 Hz	71.7 kHz	Sun Microsystems HI
	56.0 Hz	45.1 kHz	
	60.0 Hz	48.4 kHz	
1280 x 960*	70.0 Hz	55.5 kHz	
	60.0 Hz	60.0 kHz	
	60.0 Hz	64.0 kHz	
1280 x 1024*	75.0 Hz	80.0 kHz	
	85.0 Hz	91.1 kHz	
	60.0 Hz	75.0 kHz	
	65.0 Hz	81.3 kHz	
	70.0 Hz	87.5 kHz	
1600 x 1200*	75.0 Hz	93.8 kHz	
	85.0 Hz	106.3 kHz	

* Compressed or partial display

PDP-503MXE Control terminals

RS-232C (for control of personal computer)	Connector	D-sub 9-pin
Combination IN/OUT	Baud rate	1200, 2400, 4800, 9600, 19200, 38400 bps
Control IN/OUT	Connector	Mini-DIN 6-pin (x2)
	Connector	Mini jack (x2)

PDP-503MXE with PDA-5002 PC signal (DVI)

Resolution (dot x line)	Vertical frequency	Horizontal frequency
640 x 480	60.0 Hz	31.5 kHz
800 x 600	56.0 Hz	35.2 kHz
	60.0 Hz	37.9 kHz
1024 x 768	60.0 Hz	48.4 kHz
1152 x 864 *	60.0 Hz	53.7 kHz
1280 x 768	56.0 Hz	45.1 kHz
	60.0 Hz	48.4 kHz
1280 x 960 *	60.0 Hz	60.0 kHz
1280 x 1024 *	60.0 Hz	64.0 kHz

* Compressed or partial display

PDP-503MXE Accessories

Accessories included	Optional accessories
Cleaning cloth	x 1 Video card (PDA-5002)
Speed clamp	x 2 Side mount speakers (PDP-S05-LR)
Bead band	x 2 Table top stand (PDK-TS01)
Remote control unit	x 1 Ceiling mount kit (PDK-5012)
AA(R6) Battery	x 2 Angled hang on wall unit (PDK-5011)
Hex hole bolt (M8 x 40)	x 2 Wall mounting bracket (PDK-5013)
Washer	x 2 PDP bracket (PDK-5005)
CD-ROM	x 1 Mobile cart (PDK-5014)
Desktop stand	x 2 Cable cover (PDA-P01)
Remote control unit case	x 1
Operation instructions	

Personal computer screen display

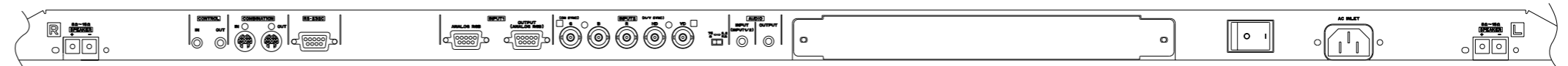
	VGA	SVGA	XGA	SXGA*	UXGA*1
True					
4:3 Expanded / Compressed					
Full					
Partial					

* 4:3 and Full pictures are compressed. Partial images are shown in real size. *1 Compressed

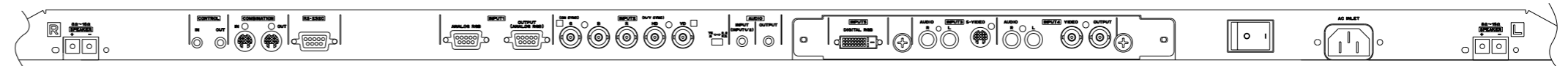
PDA-5002 General specification

Dimensions (W x H x D)	243.8 x 27.6 x 148.9mm
Weight	0.3 kg
Operating temperature	0°C ~ 40°C

PDP-503MXE Terminal configurations



PDP-503MXE with PDA-5002 Terminal configurations



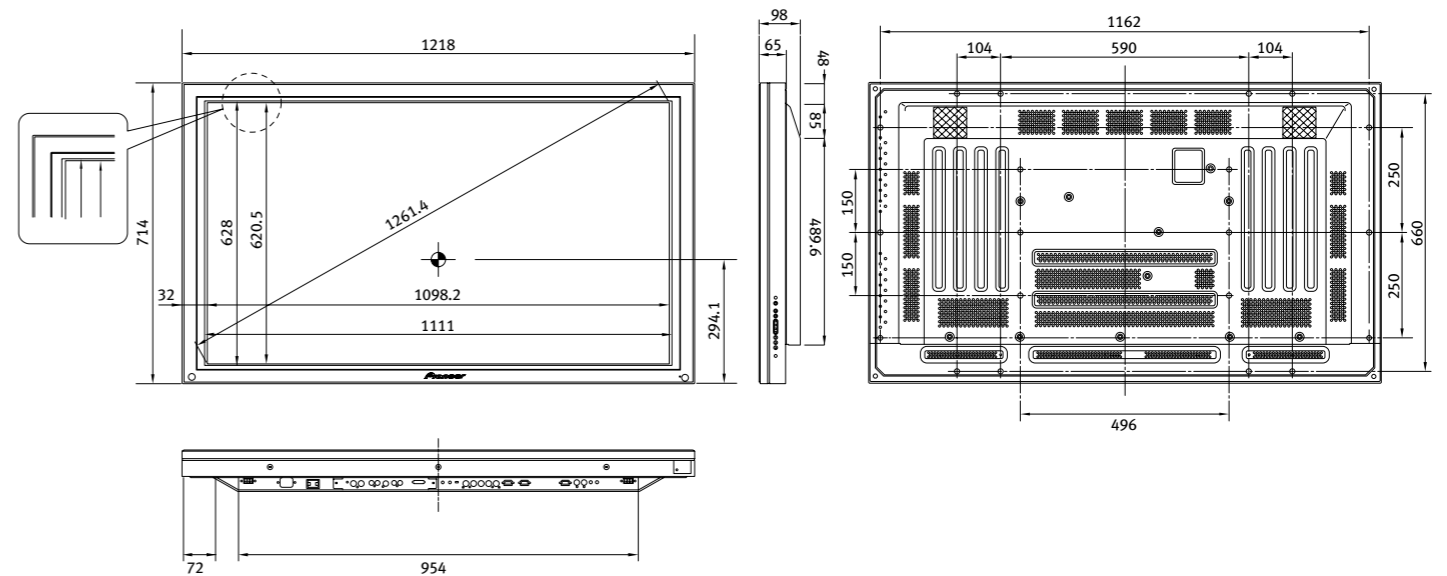
PDA-5002 Accessories included

Pin/BNC conversion adaptor	x 1
Screws	x 2
Label for remote control unit	x 1
Connector indicator label	x 1
Operating instructions	

PDA-5002 Audio input/output terminals

Audio input (Input 3)	IN	Connector	L/R : 500mVrms/more than 10kΩ
Audio input (Input 4)	IN	Pin x 2 (L/R)	L/R : 500mVrms/more than 10kΩ

PDP-503MXE Dimensions (mm)



PDP-503MXE with PDA-5002 Video input signal compatibility

3.58NTSC, 4.43NTSC, PAL, PAL M, PAL 60, SECAM

PDA-5002 Video input/output terminals

Input	IN	Connector	Signal	Level / Impedance
Input 3	IN	Mini DIN 4 pin (S terminal)	Y/C separate video signal	Y : 1Vp-p/75Ω C : 0.286Vp-p/75Ω (NTSC) C : 0.3Vp-p/75Ω (PAL)
Input 4	IN	BNC	Composite video signal	1Vp-p/75Ω
		BNC	Composite video signal	75Ω
Input 5	IN	DVI-D 24 pin	Digital RGB signal (DVI Standard)*1	Compatible with Microsoft Plug & Play (VESA DDC 2B)
			*1: not complied to copy protection	

PDP503-MXE



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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

Design and specifications are subject to change without notice.