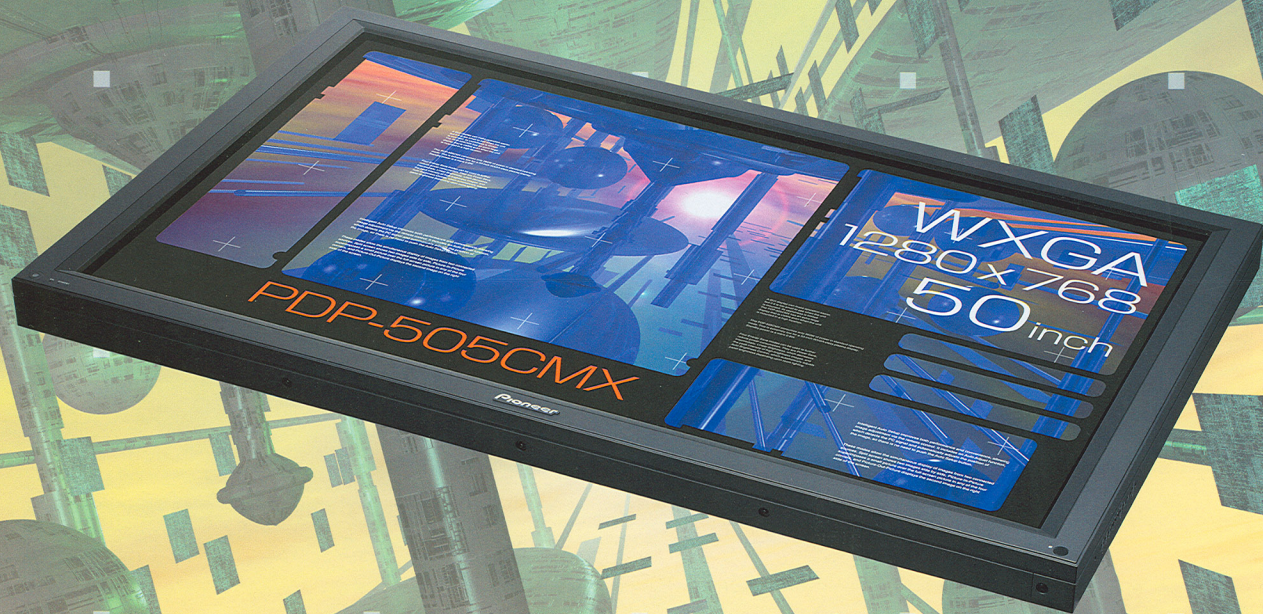


Pioneer *sound.vision.soul*



50-inch WXGA Professional Plasma Display

PDP-505CMX

Using the world's leading plasma display technology,
Pioneer presents the world's finest professional PDP.

WXGA 50 inch

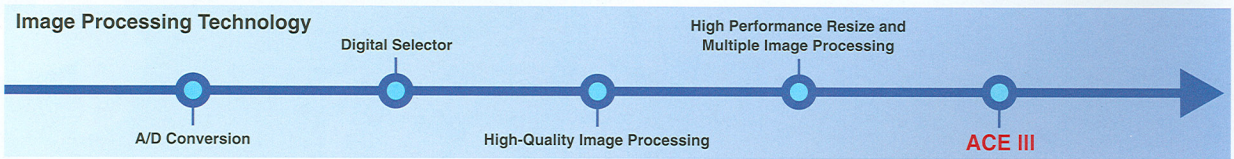
PURE
vision

Highest Quality and Performance for Professional Applications

Pioneer plasma display panels have proven their worth in a wide variety of professional and public display applications, and the PDP-505CMX offers an even higher level of quality than previous models. In addition to Pure Drive™ technology and our unique cell structure, it incorporates a new color filter that enhances contrast and color performance in bright environments where PDP's are generally used. Along with its unrivaled image accuracy and clarity, this PDP offers exceptional expandability, reliability and functionality. You can be confident that the PDP-505CMX is a sensible investment from day one to years down the road.



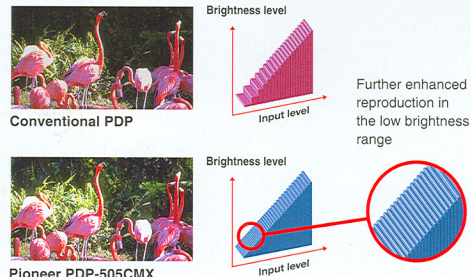
PURE DRIVE Plasma Ultimate Reference Exclusive Drive



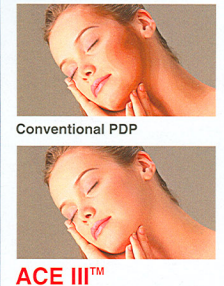
Pure Drive Technology Delivers Stunningly Beautiful Images

Pioneer's Pure Drive technology encompasses the entire range of image generation and processing that gives the PDP-505CMX its astoundingly clear, smooth and natural picture. Unlike other PDP systems, Pure Drive maintains all signals in the digital domain, which eliminates image transmission loss, reduces distortion, and provides a far greater degree of control. An important step in this process is our ACE III (Advanced Continuous Emission III™) technology, which uses 10-bit processing to create a palette of 1.07 billion hues for much greater color gradation accuracy and detail, ensuring that data and images are perfectly clear. Because of Pure Drive's outstanding capabilities, other flat panel displays simply can't match Pioneer's superb brightness, sharpness and color accuracy.

More Gray Shades in the Low Brightness Range



ACE III virtually eliminates false contouring



PURE
VISION

50-inch WXGA Professional Plasma Display
PDP-505CMX



Panel Technology

First Surface Pure Color Filter

Deep Encased Cell Structure Panel

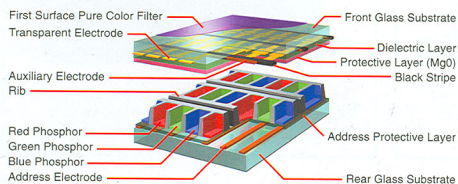
Deep Encased Cell Structure

The cells of a plasma display panel, where light is generated, are the most important factor determining image quality. Pioneer has continually refined our cell technology, which is called the Deep Encased Cell Structure. The latest version used in the PDP-505CMX incorporates an additional green fluorescent body material, contributing to ultra-high contrast and 1,000 cd/m² brightness.

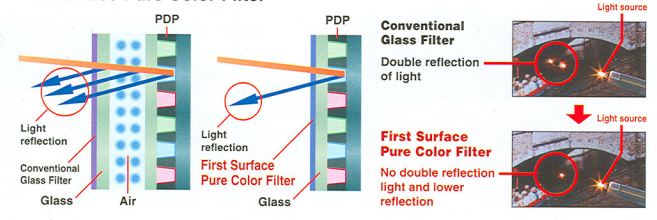
First Surface Pure Color Filter

This is a new filter that Pioneer developed to improve display performance in well-lit environments, which means most professional applications. It's a thin precision filter optically bonded directly to the glass panel covering the plasma cells. Not only does it reduce reflections and improve contrast, but each color is precisely balanced as it passes through, resulting in more accurate reproduction of all images.

Pioneer's Deep Encased Cell Structure



First Surface Pure Color Filter



Intelligent Auto Setup improves both performance and convenience, allowing image adjustment via the remote control. It includes an Auto Adjust function which detects the PC signal and automatically adjusts the position of the image, so there is no need to push the Auto Setup button.

These modes allow the simultaneous display of images from two connected sources. Split screen shows two images side by side. Picture-in-Picture™ superimposes a small picture over the top-left corner of the screen, and Picture-Out Picture displays the second image on the right side of the screen.

WXGA

50 inch

1280x768

PDP-505CMX

All 50" displays are the same size. But if a screen is too wide for the room, it can be stretched. The PDP-505CMX has an auto stretch function to help you fit the screen in a tight space.

The PDP-505CMX has a built-in speaker system. The speakers are located on the bottom edge of the display. The PDP-505CMX has a built-in speaker system. The speakers are located on the bottom edge of the display.

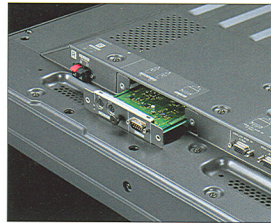
The PDP-505CMX has a built-in speaker system. The speakers are located on the bottom edge of the display. The PDP-505CMX has a built-in speaker system. The speakers are located on the bottom edge of the display.

Expandability to Meet a Wide Variety of Present and Future Needs — ES* Card Slot Interface

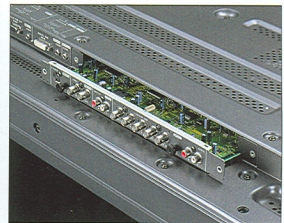
* Expansion Solutions



The PDP-505CMX is designed to be ready for any type of application with the integration of two ES Card Slot interfaces, one for communication and one for enhanced data. It comes supplied with a removable communication card that includes RS-232C and combination I/O interfaces. The second slot may optionally be used to enable video capabilities through the input of a wide range of analog or digital signals, with additional control. This means that one PDP-505CMX can be used for multiple tasks, including various applications that other PDPs can't handle. You have extensive flexibility right out of the box, and it is also ready for additional needs that may arise in the future. Pioneer's "Expansion Solutions" are one more reason why the PDP-505CMX should be your first choice for a professional plasma display.



Communication Slot



Video Slot



Communication Slot

Video Slot

Optional BNC Connector Interface Card **PDA-5003**



Enables the display of High Definition video through RGB/component, s-video and composite input terminals.

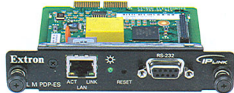
Optional RCA Connector Interface Card **PDA-5004**



Enables the display of High Definition video through component, s-video and composite input terminals.

Pioneer Certified Third Party Expansion Solution Cards*

IP Link™ Interface Module Extron® Electronics IPL M PDP-ES



This compact ethernet control card enables IP-based remote control, proactive monitoring, and troubleshooting.

Integrated Analog CAT-5 Receiver Magenta Research MultiView™ AK1000PDP



Enables high resolution video distribution over CAT-5/UTP. Signals can be transmitted over longer distances.

HDSDI Digital Video Interface Alcorn McBride PDP HDSDI™



Connects the PDP directly to professional quality broadcast equipment or any other device with SMPTE-292M and SMPTE-259M input capability.

*Third party expansion solution cards are not Pioneer products and are subject to each manufacturer's own warranty.

More Than Just a Pretty Face. You'll Also Like the Outstanding Flexibility, Reliability and Operating Ease.

Compatibility with a Wide Range of PC Signals

With a native resolution of 1,280 x 768, this high precision panel can accurately display personal computer signals ranging from 640 x 400 and 640 x 480 (VGA) to 1,024 x 768 (XGA) and 1,280 x 768 (WXGA). It is also compatible with display resolutions of 1,280 x 1,024 (SXGA) and 1,600 x 1,200 (UXGA).

Intelligent Auto Setup

Intelligent Auto Setup improves both performance and convenience, allowing image adjustment via the remote control. It includes an Auto Adjust function, which can detect a PC signal and automatically adjust the position of the image, so there is no need to push the Auto Setup button.

Three Dual Picture Modes*

These modes allow the simultaneous display of images from two connected sources. Split Screen shows two images side by side, Picture-In-Picture superimposes a small picture over the full-screen picture in any of the four corners, and Picture-Out-Picture displays the second image on the right side of the screen. * Not compatible with all Expansion Solution cards.



Side by Side

Picture-In-Picture

Picture-Out-Picture

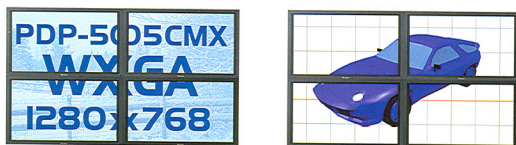
Enhanced Point Zoom

Enhanced Point Zoom instantly expands any portion of a PC image 1.5x, 2x or 3x. The Zoom Area sub-display makes it easy to confirm the expanded portion.



2 x 2 Image Expansion

You can install four units as a 2x2 data wall without needing an image expansion device. Two display modes are available, one that makes all picture elements visible, and one that enlarges the whole image to retain its original shape.



Color Detail Adjustment

Color adjustment can be performed for any specific color without affecting the other colors.

Locking Function

To make the system more secure, numerous controls can be locked: on/off, main unit buttons, remote control, main unit buttons plus remote control, and memory lock, which selects input and volume default settings when the unit is turned on.

Large GUI Display

A GUI display can make operation easier, but if it is too small to see when the unit is mounted, its usefulness is limited. The PDP-505CMX has an extra-large display that is visible even when the unit is mounted in a high location.



Extremely Low Power Consumption

This PDP-505CMX consumes only 360W of power in standard operating mode. This is extremely low for a 50-inch WXGA-class plasma display. Standby power is a mere 0.8W.

Four Energy Save Modes

Four Energy Save modes can be used to further reduce power consumption. They are Power Save, Intermediate, Linear Brightness, which decreases the peak intensity of high-brightness images, and Auto Brightness Control, which automatically adjusts panel brightness depending upon room lighting.



Three Image Burn-In Management Modes

Three modes manage image burn-in: RGB separate full mask/side mask brightness adjustment; Orbiter mode, which moves the displayed image one pixel at a time; and Inverse mode, which displays negative images. Full mask and Inverse can be controlled by the on/off timer via the Screen Management function.

Peak Pattern Detection System

This system also helps prevent burn-in by monitoring the prolonged display of still images and the concentration of brightness in any segment of the panel.

* Even so, displaying the same images for long periods should be avoided.

Smart Cooling System

Internal fans are activated only when needed, keeping fan noise to a minimum and conserving power.

Display of Error Information

In order to minimize downtime, the PDP-505CMX displays comprehensive error information. Errors, their causes, and part serial numbers are displayed and identified by symbols. In addition, various errors are indicated by the two front LEDs, so even if the display malfunctions, the cause can be quickly identified and corrected.

RS-232C Get Command

The PDP-505CMX can transmit various information to a PC via the RS-232C link using the Get command, including power on/off, input number, signal detection and complete error data. This ensures that remote monitoring is worry-free.

WHQL Compatibility

Pioneer's plasma displays were the industry's first to receive Microsoft's Windows Hardware Qualification Labs (WHQL) certification of compliance. The PDP-505CMX continues this tradition by providing Plug & Play drivers to support Microsoft® Windows® and other operating systems.

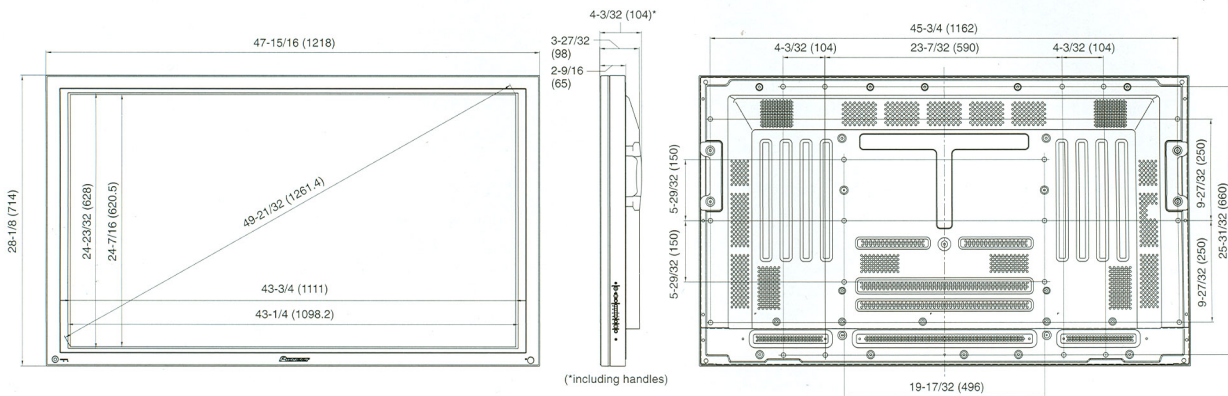
*Compatible with Microsoft Plug & Play (VESA DDC 1/2B)





Dimensions

Unit : inch (mm)



Terminal Configuration



Specifications

Effective Screen Size (W x H)	43-1/4" x 24-7/16" (1098.2 x 620.5 mm) (50in. Diag.)
Aspect Ratio	16:9
Number of Pixels	1280(Hor.) x 768(Ver.)
Pixel Pitch	0.858(Hor./RGB trio) x 0.808(Ver./Jmm)
Color Resolution	1024 grey scale, 1.07billion colors
Brightness	1000cd/m ² (white peak)
Dimensions (W x H x D*)	47-15/16" x 28-1/8" x 3-27/32" (1218 x 714 x 98 mm)
Weight	78 lbs. 11 oz (35.7 kg)
Power Consumption	360W (0.8W at stand by)
Power Requirements	AC 100-120V ± 10%, 50/60Hz
Operating Temperature	32°F-104°F (0°C-40°C)
Operating Humidity	20%-80%
Safety Regulations	UL 1950, FCC 15B class B, C-UL

*Not including handles

Computer Input Signal

Resolution (dot x line)	Vertical Frequency	Horizontal Frequency	Digital RGB	Usage
640x400	56.4Hz	24.8kHz		NEC PC-9800
720x400	70.1Hz	31.5kHz		NEC PC-9800
640x480	85.1Hz	37.9kHz		
	60Hz	31.5kHz	YES	Apple Macintosh 13"
	66.7Hz	35.0kHz		
	72.8Hz	37.9kHz		
	75Hz	37.5kHz		
848x480	85Hz	43.3kHz		
	60Hz	31.0kHz	YES	
	56Hz	35.2kHz	YES	
	60Hz	37.9kHz	YES	
800x600	72Hz	48.1kHz		
	75Hz	46.9kHz		
	85Hz	53.7kHz		
	74.6Hz	49.7kHz		Apple Macintosh 16"
	60Hz	48.4kHz	YES	
832x624	70Hz	36.5kHz		
	75Hz	60.0kHz		
	(74.9Hz)	(60.2kHz)		() Indicates Apple Macintosh 19"
	85Hz	68.7kHz		
1024x768	56Hz	45.1kHz	YES	
	60Hz	47.8kHz	YES	
	70Hz	56.1kHz		
1152x864*	60Hz	53.7kHz	YES	
	72Hz	64.9kHz		
	75Hz	67.5kHz		
1152x870*	75.1Hz	68.7kHz		Apple Macintosh 21"
	71.7Hz	71.7kHz		Sun Microsystems LO
	66Hz	61.8kHz		Sun Microsystems HI
1152x900*	76Hz	71.7kHz		
	60Hz	60.0kHz	YES	
1280x960*	60Hz	64.0kHz	YES	
	75Hz	80.0kHz		
1280x1024*	85Hz	91.2kHz		
	60Hz	65.3kHz	YES	
	75Hz	82.3kHz		
1400x1050*	85Hz	93.9kHz		
	60Hz	75.0kHz		
	65Hz	81.3kHz		
	70Hz	87.5kHz		
	75Hz	93.8kHz		
	85Hz	106.3kHz		

*Compressed or partial display

Input/Output Terminals

Terminal	Connector	Signal	Level/Impedance
INPUT 1 IN	Mini D-sub 15-pin	Analog RGB Signal	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)	
INPUT 1 OUT	Mini D-sub 15-pin	Analog RGB Signal (G on Sync compatible)	75Ω
INPUT 2 IN	DVI-D 24-pin	Digital RGB Signal (DVI Standard)	
		Compatible with Microsoft Plug & Play (VESA DDC 2B) and HDCP*	

*Applies only when equipped with Pioneer Video Card PDA-5003 or PDA-5004

Audio Input/Output Terminals

Terminal	Connector	Level/Impedance
AUDIO INPUT(INPUT1)	IN Stereo mini	L/R: 500mVrms/more than 10kΩ
AUDIO INPUT(INPUT2)	IN Stereo mini	L/R: 500mVrms/more than 10kΩ
AUDIO OUTPUT	OUT Stereo mini	L/R: 0-500mVrms/less than 5kΩ (VARIABLE)
SPEAKER	OUT	L/R: 8-16Ω/7W +7W(8Ω)

Control Terminals

Terminal	Connector	D-sub 9-pin
RS-232C (for control by computer)	IN	Baud Rate 1200, 2400, 4800, 9600, 19200, 38400 bps
Combination IN/OUT	IN/OUT	Connector Mini DIN 6-pin (x2)

Accessories

Power Code x 1, Remote Control Unit x 1, Remote Control Unit Holder x 1, AA(R6) batteries x 2, Cleaning cloth(for screen) x 1, Speed clamps x 2, Bead bands x 2, Display stands x 2, Washers x 2, Hex hole bolts(M8x40) x 2, Operating Instructions x 1, Warranty x 1

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 setup of this machine only to a competent professional or retail service engineer. * Pioneer cannot accept liability in case where the equipment is damaged due to inappropriate installation location, improper assembly, installation, set-up, operation or renovation, or by natural disasters.

Options

BNC Connector Interface Card **PDA-5003**



Enables the display of High Definition video through RGB/component, s-video and composite input terminals.

VIDEO INPUT/OUTPUT 3.58NTSC, 4.43NTSC, PAL, SECAM, PAL-N, PAL-M

INPUTS	IN	Connector	Signal	Level/Impedance
INPUT3	IN	Mini DIN 4-pin (S terminal)	Y/C Separate Video Signal	Y: 1Vp-p/75 Ω C: 0.286Vp-p/75 Ω (NTSC) 0.3Vp-p/75 Ω (PAL)
			Composite Video Signal	1Vp-p/75 Ω
INPUT4	OUT	BNC	Composite Video Signal	75 Ω
INPUT5	IN	BNC x 5	Analog RGB Signal (Compatible with G on Sync)	RGB: 0.7Vp-p/75 Ω G on Sync: 1Vp-p/75 Ω HD/CS, VD, TTL level/75 Ω or 2.2k Ω switchable
			Component Video Signal	Y: 1Vp-p/75 Ω Pb/Cb, Pr/Cr: 0.525Vp-p/75 Ω (75% saturation)

AUDIO INPUT/OUTPUT

AUDIO INPUT(OUTPUT)	Connector	Level/Impedance
AUDIO INPUT(INPUT3/4)	RCA pin x 2	L/R: 500mVrms/more than 10k Ω
AUDIO INPUT(INPUT5)	RCA pin x 2	L/R: 500mVrms/more than 10k Ω

RCA Connector Interface Card **PDA-5004**



Enables the display of High Definition video through component, s-video and composite input terminals.

VIDEO INPUT/OUTPUT 3.58NTSC, 4.43NTSC, PAL, SECAM, PAL-N, PAL-M

INPUTS	IN	Connector	Signal	Level/Impedance
INPUT3	IN	Mini DIN 4-pin (S terminal)	Y/C Separate Video Signal	*Y: 1Vp-p/75 Ω C: 0.286Vp-p/75 Ω (NTSC) 0.3Vp-p/75 Ω (PAL)*
			Composite Video Signal	1Vp-p/75 Ω
INPUT4	IN	RCA	Composite Video Signal	75 Ω
INPUT5	IN	RCA x 3	Component Video Signal	Y: 1Vp-p/75 Ω Pb/Cb, Pr/Cr: 0.525Vp-p/75 Ω (75% saturation)

AUDIO INPUT/OUTPUT

AUDIO INPUT(OUTPUT)	Connector	Level/Impedance
AUDIO INPUT(INPUT3)	RCA pin x 2	L/R: 500mVrms/more than 10k Ω
AUDIO INPUT(INPUT4)	RCA pin x 2	L/R: 500mVrms/more than 10k Ω
AUDIO INPUT(INPUT5)	RCA pin x 2	L/R: 500mVrms/more than 10k Ω

IP Link™ Interface Module Extron® Electronics **IPL M PDP-ES**



This compact ethernet control card enables IP-based remote control, proactive monitoring, and troubleshooting.



I/O	Connector	Signal
LAN	RJ-45	10Base-T, half/full duplex with autodetect
RS-232	D-sub 9-pin	8data bits, 1 stop bit, no parity

For more information: Extron Electronics
1230 South Lewis Street Anaheim, CA 92805 USA
Tel: 800-633-9876 or 714-491-1500 Fax: 714-491-1517
URL: <http://www.extron.com>

Integrated Analog CAT-5 Receiver Magenta Research **MultiView™ AK1000PDP**



Enables high resolution video distribution over CAT-5/UTP. Signals can be transmitted over longer distances.



Maximum resolution: 1920 × 1440 @ 70Hz (From 0 ft. to 1000 ft.)
Video compatibility: RGBHV, RGBS, YUV, NTSC, PAL

I/O	Connector	Signal
Link IN	RJ-45	MultiView format Video and Serial Data
Link OUT	RJ-45	The UTP signal to be daisy-chained (8 PDP)
Optional OUT	HDB	Full Modern serial option
Optional Audio	RCA x 2 (L/R)	Audio

For more information: Magenta Research, Inc.
934 Federal Road, Brookfield, CT 06804 USA
Tel: 203-740-0592 Fax: 203-740-0596
URL: <http://www.magenta-research.com>

HDSDI Digital Video Interface Alcorn McBride **PDP HDSDI™**



Connects the PDP directly to professional quality broadcast equipment or any other device with SMPTE-292M and SMPTE-259M input capability.



I/O	Connector	Signal
Input	BNC	SMPTE-292M and SMPTE-259M
Loop Through	BNC	Buffered & Re-clocker SMPTE-292M loop through
Analog Input	Mini D-sub 15-pin	RGBHV/YPbPr component Tri-level or Bi-level sync

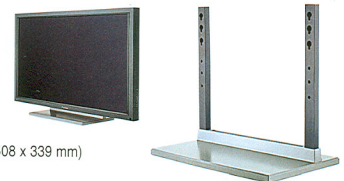
For more information: Alcorn McBride Inc.
3300 S. Hiawasse Building 105 Orlando, FL 32835 USA
Tel: 407-296-5800 Fax: 407-296-5801
URL: <http://www.alcorn.com>

Optional Side-Mount Speakers **PDP-S05-LR**



Maximum output 12W/8 ohms
Dimensions (WxHxD) 2-29/32" x 28-1/8" x 3-31/32" (74 x 714 x 101 mm)
Weight 3 lbs. 15 oz (1.8 kg) (one unit)

Table Top Stand **PDK-TS01**



Dimensions (WxHxD)
22-9/32" x 20" x 13-11/32" (566 x 508 x 339 mm)
Weight 8 lbs. 13 oz (4.0 kg)



PSA-1

ADJUSTABLE HEIGHT
SUSPENSION ADAPTER



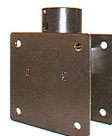
PSA-2

ADJUSTABLE HEIGHT
SUSPENSION ADAPTER



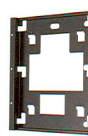
PCA-1

1-1/2" NTP (SINGLE)
CEILING ADAPTER



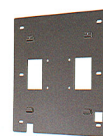
PCA-2

2" NTP (DUAL)
CEILING ADAPTER



PDWB-5003

FLAT WALL MOUNTING
BRACKET for 50" PLASMA



PWM-503

TILTING WALL MOUNTING
BRACKET for 50" PLASMA

*These products are offered for sale only in the US market. Pioneer cannot accept responsibility in the event that they are used in other regions.

*These items have been produced by Progressive Marketing Products, Inc. If you need further information please call 1-800-368-9700 or access to <http://www.pmpi.com>.

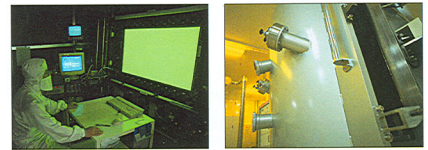
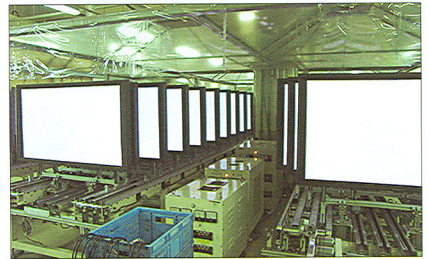
Choose Pioneer for Any Application

Pioneer PDPs are ideal for a wide variety of applications, such as public information displays, visual displays at trade shows, industrial control and monitoring, trading room displays, electronic advertising and business presentations.



The world leader in PDP quality and innovation.

Pioneer introduced the world's first 50-inch WXGA PDP in 1997 and continues its tradition of innovation with the fifth generation PDP-505CMX. We lead the industry not only in performance and functions, but also in the development of fundamental PDP technology. Because we manufacture everything in-house, from panels to electronics, we are able to adhere to the highest quality standards, proven by our rapid achievement of ISO 14001 certification.



Pioneer Corporation and Pioneer Display Products Corporation where PDP products are developed have both achieved ISO 14001 certification.

*For more details, contact one of the addresses below. *All product names and company names are registered trademarks of their respective owners.

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- PIONEER ELECTRONICS (USA) INC. URL : <http://www.pioneerelectronics.com/>
<http://www.pioneerindustrialav.com>

Pioneer

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