

SONY[®]

Flat Panel Monitor

PFM-500A1W



PFM-500A1W

*The Sony PFM-500A1W:
the finest example of the next
generation of professional monitors.*

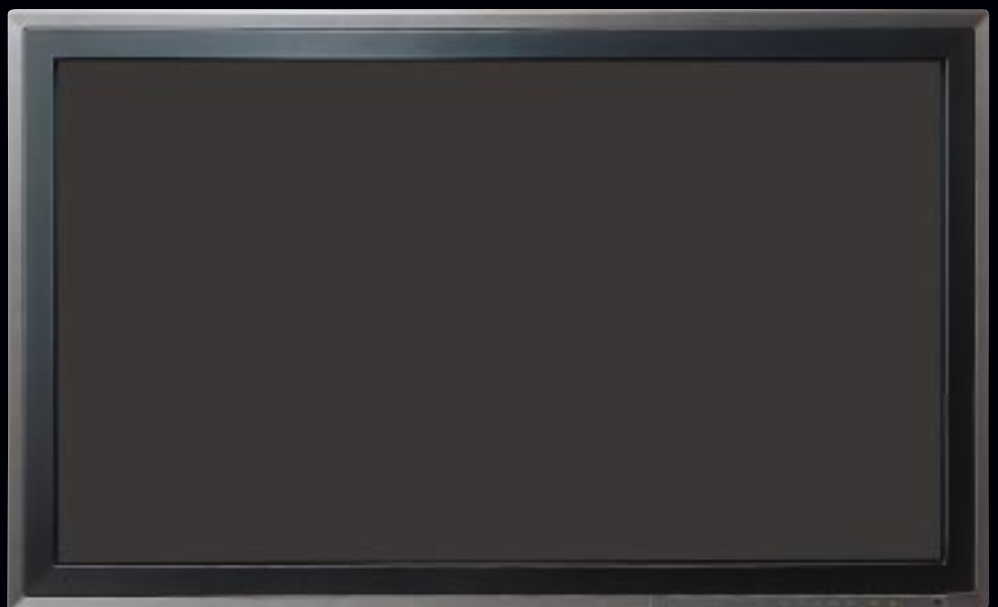
Professional monitors have attained a new level of innovation with the Sony PFM-500A1W Professional Flat Panel Monitor. It has a lightweight and thin 42-inch** flat panel to display crisp direct-viewing images and extend the flexibility of monitor applications beyond those which were previously imaginable. Compatibility, reliability, and clear image reproduction - these have always been the primary requirements of a professional monitor and continue to be of key importance. The PFM-500A1W also incorporates professional features that are the traditional hallmarks of Sony. The built-in, high performance scan converter is essential to versatile media handling, while Four-Line Vertical Interpolation conveys superb impressions of the original sources. In addition, the option slot provides greater system versatility as optional adapters*** can be used in the future.*

As multi-source information monitors at airports, presentation monitors at trade shows or wall-mounted background video displays, PFM-500A1W is an exciting visual tools. They have the potential to serve as well as create numerous applications.

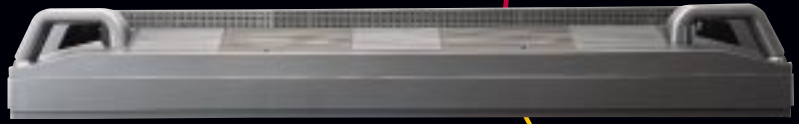
* The PFM-500A1W is available in two different models: the PFM-500A1WU for countries operating at AC 100-120 V and the PFM-500A1WE for AC 220-240 V.

** Viewable Area, measured diagonally.

*** Will soon be available.



*Functional carrying handles and
unique retractable feet*



*Direct-viewing flat panel
provides crisp picture
reproduction*



*Ideal for a variety of
installations with a lightweight
and compact body*



*Advanced scan converter and option slot for
flexibility in the digital age*



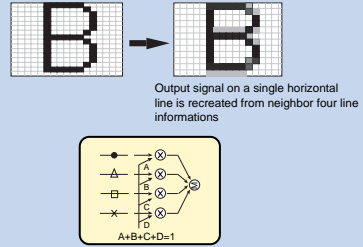
Advanced Scan Converter

The PFM-500A1W is equipped with an advanced scan converter which includes variable and offset phase sampling and Four-Line Vertical Interpolation technologies. As such, it achieves highly accurate image conversion than is possible with conventional scanning methods.

This scan converter can intelligently reproduce a wide range of existing video signals (NTSC, PAL, HDTV) and computer signals with horizontal frequencies ranging from 15.6 to 80.0 kHz.

Four-Line Vertical Interpolation reproduces optimum images from various computer signals by utilizing the data of four lines from the original signal to generate each interpolated line.

Four-Line Vertical Interpolation



Connector panel

Option Slot

The option slot gives this monitor tremendous flexibility in the digital age.

Since optional plug and play adapters* can be added as they become available, the range of PFM-500A1W applications will continue to grow.

* Will soon be available.



Easy Handling Capabilities

The PFM-500A1W is equipped with four carrying handles on the rear side. With its unique retractable feet, this monitor can be moved and installed with the minimum of effort and with no additional devices.



Retractable feet



Carrying Handles

Applications



Airport lobby



Exhibition



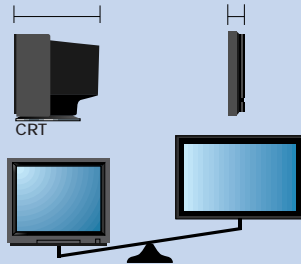
Electric power plant

Flat Panel Advantages

The PFM-500A1W adopts the new-generation display device: a Plasma Display Panel. Innovative flat panel technology now makes the impossible possible:

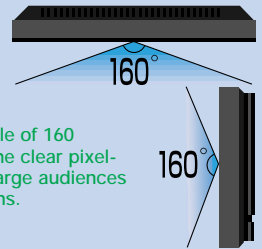
Light weight & compact design

The thin and lightweight flat panel gives the PFM-500A1W a compact body. Thus, superb images can be enjoyed with a minimal space requirement.



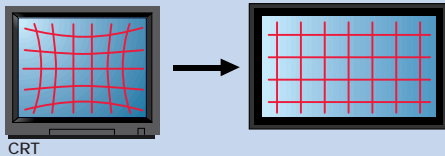
Wide viewing angle

There is a wide viewing angle of 160 degrees in all directions. The clear pixel-by-pixel images appeal to large audiences in many different applications.



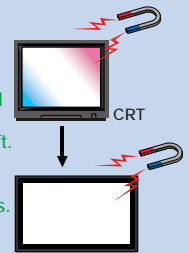
Clear and even pictures

Because of the linear alignment of the light-emitting pixels, accurate pictures are reproduced without distortion.



Resistance to magnetic influence

Flat panel monitors can be installed in areas where the effects of magnetic field are prevalent without experiencing interference such as color uniformity drift. These effects are caused by equipment employing magnets such as motors or speakers, or high-tension electrical wires. Different from conventional CRTs, Flat panel is free from these circumstance.



Additional Features

- **Five-Language On-Screen Display**
English, French, German, Spanish and Italian.
- **Picture control**
- **Size control**
Picture size is adjustable, both horizontally and vertically.
- **Selectable aspect ratio**
The aspect ratio is selectable between widescreen 16:9 and standard 4:3.
- **Picture ZOOM/STILL function**
- **Easy maintenance access**
 - Self diagnosis function
STATUS Menu / Service code indicator / RS-232C port
 - Detachable power supply block
 - Easy accessible cooling fan enables quick and easy maintenance.
- **Memory save/load**
Primary set-up data is saved in the internal memory and loaded when necessary.
- **Various remote control capabilities**
The PFM-500A1W can be controlled by the Sony RM-921 Remote Commander (supplied) or via CONTROL S.
- **Wide range power supply**
Switchable between AC 100 to 120V and AC 220 to 240 V (UL listed for 100 to 120V operation).
- **7W + 7W built-in amplifier**
- **Audio Monitor Out**
For connection to external audio equipment.



On-Screen Display



RM-921 Remote Commander



Control panel

Specifications

Picture performance

Panel	Resolution	852 x 480 pixels
	Pixel pitch	1.08 x 1.08 mm
	Active area (w/h)	920 x 518 mm
		42 inch/1,056 mm (measured diagonally)
Driver Colors	8-bit RGB	
	16.8 million colors simultaneously	
AC-type Plasma Display Panel with anti-reflection screen		
Color system	NTSC, PAL (Composite, Y/C, YUV, RGB) HDTV (Y/Pb/Pr, RGB)	
Capture range	fH	15.6 kHz to 80 kHz
	fV	50 Hz to 120 Hz
Sampling rate	12.5 to 40 MHz offset phase max.	
Output pixel clock	30 MHz	
Preset signals	12 format	

Input / Output

RGB 1	BNC connectors		
	RGB	0.714 Vp-p/non-composite, 1 Vp-p/composite, 75 Ω auto-termination, loop through	
	YUV	0.7 Vp-p/non-composite (U/V), 1 Vp-p/composite (Y), 75 Ω auto-termination, loop through	
	HD/COMP, VD	H (or composite) sync, V sync, 1 - 5 Vp-p, 75 Ω high impedance, loop through	
Audio (L/R)	Phono, 500 mV rms, high impedance, loop through		
	D-sub 15-pin connector		
RGB 2	0.714 Vp-p/non-composite, 75 Ω, 1Vp-p/composite		
	External sync	H (or composite) sync, V sync, 1 - 5 Vp-p, 75 Ω high impedance	
Audio (L/R)	Phono, 500 mV rms, high impedance		
	D-sub 15-pin connector		
LINE	Composite	BNC connector, 1 Vp-p, sync negative, 75 Ω auto-termination, loop through	
	Y/C	Mini DIN 4-pin connector, Y: 1 Vp-p, sync negative, C: 0.286 Vp-p (NTSC), 0.3 Vp-p (PAL), 75 Ω auto-termination, loop through	
	Audio (L/R)	Phono, 500 mV rms, high impedance, loop through	
		D-sub 15-pin connector	
Sync signal	External H/V separate sync or composite sync Sync-on-Green, automatic selectable * Tri-level sync is available for HDTV		
Audio output	speakers terminal	6 to 16 Ω, 7 W + 7 W (at 8 Ω)	
	Monitor out (L/R)	Phono, 500 mV rms at Volume max., attenuation 0 dB to -∞ (variable) Total harmonic distortion less than 1 %	
Remote	Control S IN/OUT	Mini jack, 5 Vp-p	
	RS-232C	D-sub 15-pin	

General

Power requirements	AC 100-120 V, 220-240 V ±10 % 50/60 Hz PFM-500AIWU: 100-120 V PFM-500AIWE: 220-240 V
Power consumption	330 W typical (450 W maximum)
Operating temperature	0 °C to 35 °C
Storage temperature	-10 °C to 40 °C
Humidity	0 % to 90 %, not condensing
Dimensions (w/h/d)	1035 x 635 x 152 mm (40 3/4 x 25 x 6 3/4 inches)
Mass	Approx. 47 kg (Approx. 103 lb 10 oz)

Supplied accessories

AC power cord (1)/AC plug holder (1)/Remote controller RM-921 with two AA (R6) batteries (1)/Connector cover (1)/ Foot support bracket (2)
Ferrite core (2)/Operation manual (1)

Regulation compliance

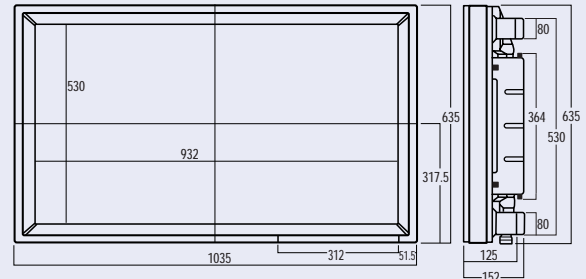
UL 1950, CSA 22.2 No.950, TÜV EN-60950 (CE LVD) C-tick
FCC Class A, IC Class A, CE EN55022 Class-A/EN50082-2/EN60555-2, VCCI-A

Features and specifications subject to change without notice.
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Preset Signals

	INPUT	fH(kHz)	fV(Hz)	Resolution
1	NTSC (Composite)	15.734	59.94	525 lines
	NTSC (Y/C)			
	Component (60) RGB (60)			
2	PAL (Composite)	15.625	50	625 lines
	PAL (Y/C)			
	Component (50) RGB (50)			
3	VGA (Graphic)	31.469	59.94	640 x 480 dots
4	VGA (Text)	31.469	70.087	720 x 400 dots
5	HDTV	33.75	60, 59.94	1125 lines
6	Mac 13"	35	66.67	640 x 480 dots
7	VESA 800 x 600	37.88	60.32	800 x 600 dots
8	VESA 1024 x 768	48.36	60	1024 x 768 dots
9	Mac 16"	49.727	74.553	832 x 624 dots
10	ATI 1280 x 1024	63.95	59.94	1280 x 1024 dots
11	Mac 21"	68.68	75.06	1152 x 870 dots
12	VESA 1280 x 1024	79.976	75.025	1280 x 1024 dots

Dimensions



Optional Accessories

SS-X500A Speaker System

70 Hz to 20000 Hz
88 dBWm
Input capability of 120 W
Design consistency with PFM-500A1W
Layout-free design
Monitor attachment bracket included.

MB-514 Mounting Bracket

For wall-mounted installation
Monitors can be tilted 0 to 20 degrees downward from the wall

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