

**SONY**<sup>®</sup>

Professional Flat Panel Monitor

**PFM-42B1**



# *With one look, you know the PFM-42B1 is your choice.*



## ***Versatile and Stylish***

With a simple yet sophisticated appearance, the PFM-42B1 comes in two colors (silver and dark gray) to match with your style. At a depth of just 83 mm (3<sup>3</sup>/<sub>8</sub> inches), you can arrange this 42-inch\* flat panel monitor in any way you desire – in a stand, on a wall or hung from the ceiling, either horizontally or vertically – for striking visuals with outstanding viewer impact.

\* Viewable area, measured diagonally.

## ***Multiple Inputs and a High Performance Scan Converter***

With input connectors for composite, S-video (Y/C), RGB/component signals, you can display your visuals from a wide variety of signal sources, ranging from standard video to HDTV, DTV and computer signals up to UXGA\*. A built-in high performance scan converter ensures optimum image quality with exact pixel sampling from the original input source, providing high quality pixel-by-pixel image reproduction.

\* For details, please refer to the Preset Signals chart.

## ***Brilliant Picture Quality***

The PFM-42B1 uses a high resolution flat panel with 1024 x 1024 pixels. Achieving excellent brightness and contrast, it produces sharp, detailed images with rich and natural colors. With the Sony original I/P (Interlace/Progressive) conversion technology you will see precise and smooth images throughout the screen, and the anti-reflection coating on the glass panel reduces light reflection for clear, high contrast pictures.



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## Other Features

### Lightweight at 29.4 kg (64 lb 11 oz)

**Six-language On-Screen Display**  
for quick and simple setup in English, French, German, Italian, Spanish and Japanese

**Selectable Aspect Ratio**  
you can choose from widescreen 16:9, wide zoom, Letter Box zoom and standard 4:3

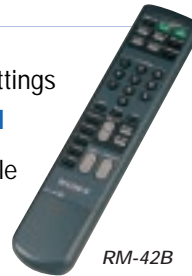
**Size Control**  
the size of the picture can be adjusted both vertically and horizontally

**Picture ZOOM**  
to zoom in on a section for a closer look  
multiple panels can be used for video wall applications

**Memory Save/Load**  
up to twenty picture settings

**Various Remote Control Capabilities**  
PFM-42B1 is controllable with the supplied RM-42B remote control unit or via RS-232C

**Easy Maintenance Access**  
self-diagnosis alarm can be confirmed on the status menu, service code indicator or via the RS-232C port



**Precise Color Temperature Adjustment**  
up to six color temperature settings

**Dot Phase Adjustment**  
optimizes the scan converter sampling phase to the input signal

**Screen Saver Function**  
Picture Orbiting and Picture Inversion

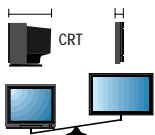
**24 Hour On/Off Timer**

**Closed Caption Decoder**

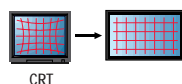
**Worldwide Power Supply Range**

## Flat Panel Advantages

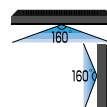
Sony PFM monitors adopt Plasma Display Panels (PDP).  
The versatility and flexibility of PDP technology is ideal for many applications.



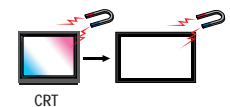
Compact and lightweight design for large, superb images in minimum space



Accurate images from the linear alignment of the light-emitting pixels



Wide 160° viewing angle for large-audience appeal



Resistance to magnetic fields for drift-free color uniformity

## Specifications

Picture Performance	
Panel	Resolution 1024 x 1024 pixels
	Pixel pitch 0.90 x 0.51 mm
	Active area (W/H) 921 x 522 mm
	Viewable picture area 42-inch/1,058 mm (measured diagonally)
	Driver 10-bit RGB
	Colors 16.8 million colors simultaneously
	Type AC-type Plasma Display Panel with anti-reflection screen
Color system NTSC/PAL/SECAM/NTSC <sub>4.43</sub> /PAL-M/PAL 60	
Sampling rate 13.5 to 140 MHz	
Input/Output	
INPUT1/INPUT2	D-sub 15-pin
RGB	0.714 Vp-p/non-composite, 1.0 Vp-p/ composite, 75 Ω
YUV	0.7 Vp-p/non-composite (U/V), 1.0 Vp-p/ composite (Y), 75 Ω
AUDIO	Stereo mini jack, 500 mV rms, high impedance
VIDEO COMPOSITE IN	BNC, 1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination
Y/C IN	Mini DIN 4-pin
Y	1.0 Vp-p ±2 dB sync negative, 75 Ω
C	0.286 Vp-p ±2 dB sync negative (NTSC), 75 Ω
AUDIO IN	0.3 Vp-p ±2 dB sync negative (PAL), 75 Ω
AUDIO IN	Stereo mini jack, 500 mV rms, high impedance
COMPOSITE OUT	BNC, loop-through
AUDIO OUT	Stereo mini jack, 500 mV rms, high impedance
REMOTE (RS-232C)	D-sub 9-pin
General	
Power requirements	AC 100 to 240 V, 50/60 Hz, 4.5 to 1.8 A
Power consumption	400 W max.
Operating temperature	0 to 35 °C (32 to 95 °F)
Storage temperature	-10 to 40 °C (14 to 104 °F)
Humidity	20 to 90 %, no condensation
Dimensions (W/H/D)	1033 x 631 x 83 mm (40 <sup>3</sup> / <sub>4</sub> x 24 <sup>7</sup> / <sub>8</sub> x 3 <sup>3</sup> / <sub>8</sub> inches)
Mass	29.4 kg (64 lb 11 oz)

### Supplied Accessories

AC Power Cord, AC Plug Holder (2), Remote Commander RM-42B, Size AA (R6) Battery (2), Operating Instructions

### Regulation Compliance

UL1950, CSA No.950 (c-UL), CE LVD (EN60950), Dentori Otsu, FCC Class B, IC Class B, VCCI Class B, CE EMC (EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3), C-Tick (AS/NZS 3548/95, AS/NZS 4252.1), CCIB

\*Excluding protruding parts.

## Preset Signals

VIDEO	fH (kHz)	Frame rate*(Hz)	Resolution (Active)
NTSC	15.734	60	483 lines
PAL	15.625	50	575 lines
SECAM	15.625	50	575 lines
NTSC <sub>4.43</sub>	15.734	60	483 lines
PAL60	15.734	60	483 lines
1080/24PsF	27.000	24	1080 lines
1080/50I	28.125	50	1080 lines
575/50P	31.250	50	575 lines
480/60P	31.469	60	483 lines
1080/60I	33.750	60	1080 lines
720/60P	45.000	60	720 lines
COMPUTER INPUT	fH (kHz)	fV (Hz)	Resolution (Active)
VGA-1 (VGA 350)	31.5	70	640 x 480 dots
640 x 350 @85 (VESA STD)	37.9	85	640 x 350 dots
640 x 400 @85 (VESA STD)	37.9	85	640 x 400 dots
640 x 480 @60 (VESA STD)	31.5	60	640 x 480 dots
Mac 13"	35.0	67	640 x 480 dots
640 x 480 @72 (VESA STD)	37.9	73	640 x 480 dots
640 x 480 @75 (VESA STD)	37.5	75	640 x 480 dots
640 x 480 @85 (VESA STD)	43.3	85	640 x 480 dots
852 x 480 @60 (I-O DATA)**	31.7	60	852 x 480 dots
VGA (VGA TEXT)	31.5	70	720 x 400 dots
720 x 400 @85 (VESA STD)	37.9	85	720 x 400 dots
800 x 600 @56 (VESA STD)	35.2	56	800 x 600 dots
800 x 600 @60 (VESA STD)	37.9	60	800 x 600 dots
800 x 600 @72 (VESA STD)	48.1	72	800 x 600 dots
800 x 600 @75 (VESA STD)	46.9	75	800 x 600 dots
800 x 600 @85 (VESA STD)	53.7	85	800 x 600 dots
Mac 16"	49.7	75	832 x 624 dots
1024 x 768 @60 (VESA STD)	48.4	60	1024 x 768 dots
1024 x 768 @70 (VESA STD)	56.5	70	1024 x 768 dots
1024 x 768 @75 (VESA STD)	60.0	75	1024 x 768 dots
1024 x 768 @85 (VESA STD)	68.7	85	1024 x 768 dots
1152 x 864 @75 (VESA STD)	67.5	75	1152 x 864 dots
Mac 21"	68.7	75	1152 x 870 dots
1280 x 960 @60 (VESA STD)	60.0	60	1280 x 960 dots
1280 x 960 @85 (VESA STD)	85.9	85	1280 x 960 dots
1280 x 1024 @60 (VESA STD)	64.0	60	1280 x 1024 dots
1280 x 1024 @75 (VESA STD)	80.0	75	1280 x 1024 dots
1280 x 1024 @85 (VESA STD)	91.1	85	1280 x 1024 dots
1600 x 1200 @60 (VESA STD)***	75.0	60	1600 x 1200 dots

\* Compatible with 1/1.001.

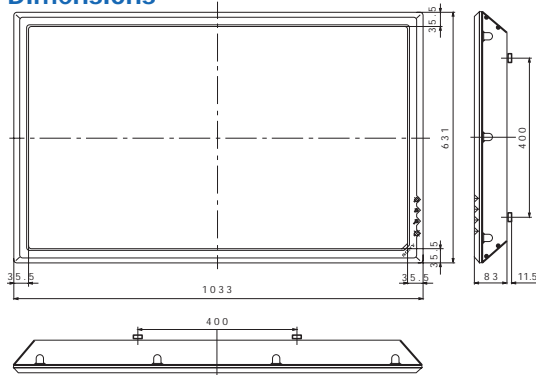
\*\* With the graphic accelerator board of I-O DATA DEVICE, INC.

\*\*\* Dot phase adjustment not applicable to UXGA (1600 x 1200).

## Control Panel



## Dimensions



## Optional Accessory



Monitor Stand SU-42B

## Connector Panel



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