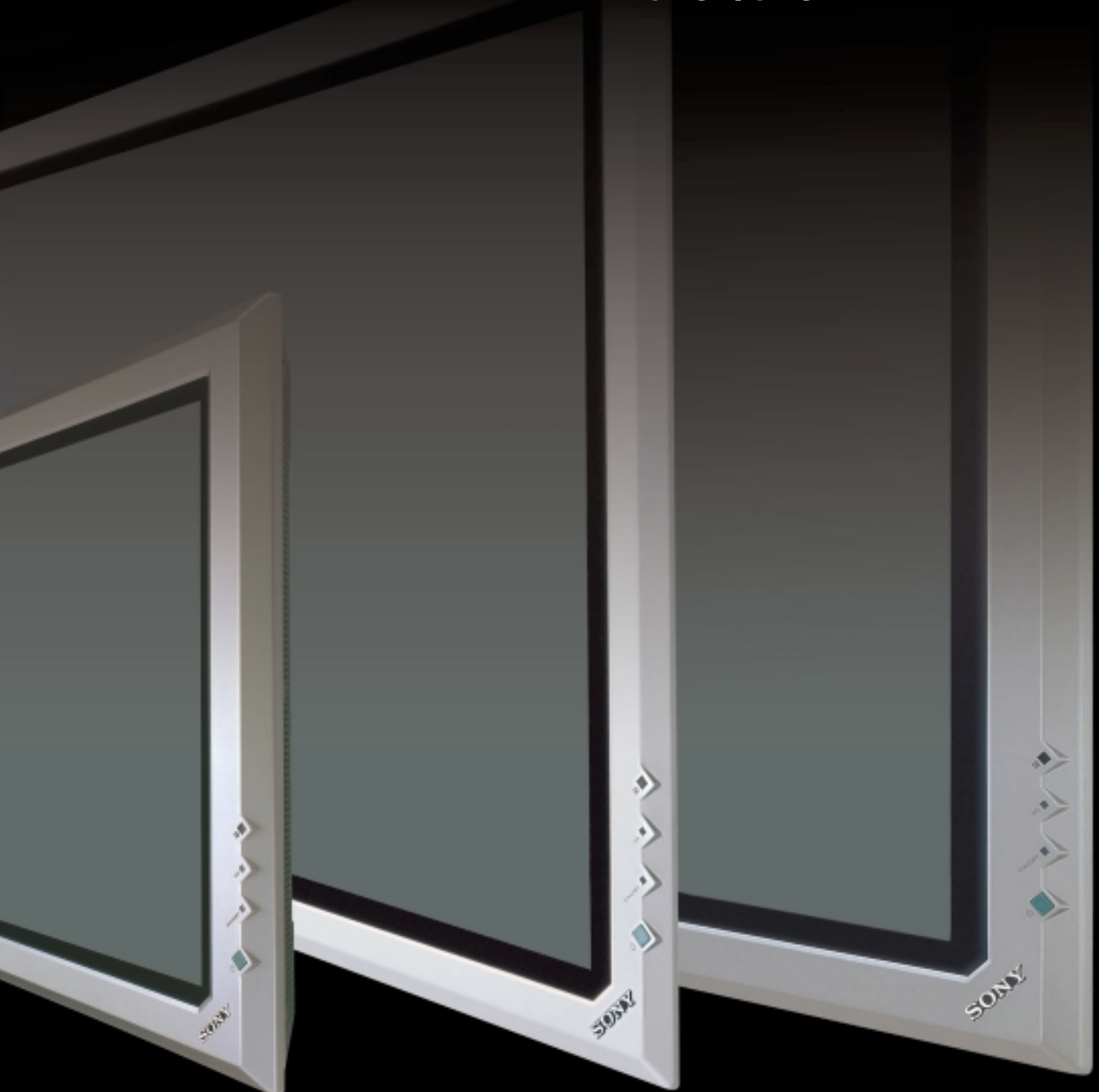# SONY®

Professional Flat Panel Displays

PFM Series

PFM-50C1/50C1E
PFM-42B2/42B2E
PFM-32C1/32C1E

Sony breathes life into the Flat Panel Display.

Sony unveils a striking lineup of 16:9 Professional Flat Panel Displays.
State-of-the-art technology enables these new models to deliver
outstanding picture quality from slim, lightweight, flat panels.
The PFM Series includes three models* : the 32-inch PFM-32C1,
with a resolution of 852 X 1024 pixels, the 42-inch PFM-42B2,
with a resolution of 1024 X 1024 pixels, and the 50-inch PFM-50C1,
with a resolution of 1365 x 768 pixels.
All three models include a range of versatile features for unsurpassed
usability, and combine their superb performance with stylish design.
The 32-inch and 50-inch include a stereo digital amplifier to power
optional external loudspeakers.
These new Flat Panel Displays are ideal for use in A/V presentations,
as information displays in malls and airports,
as background video monitors in restaurants,
and for many other space-limited applications where high-brightness,
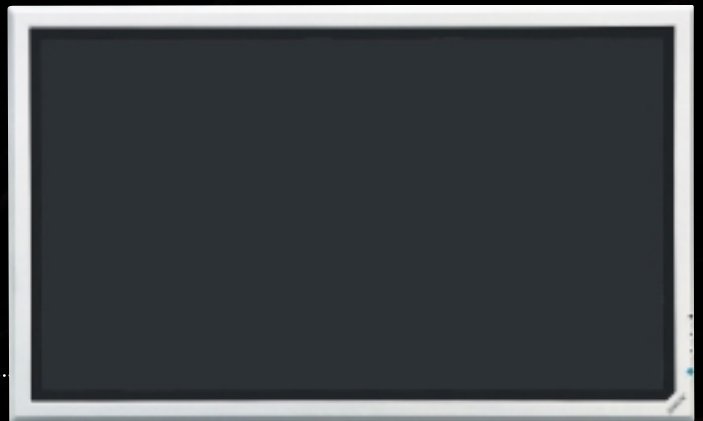high-quality images are essential.

* In this brochure, references to the PFM-32C1, PFM-42B2 and PFM-50C1 also refer to models
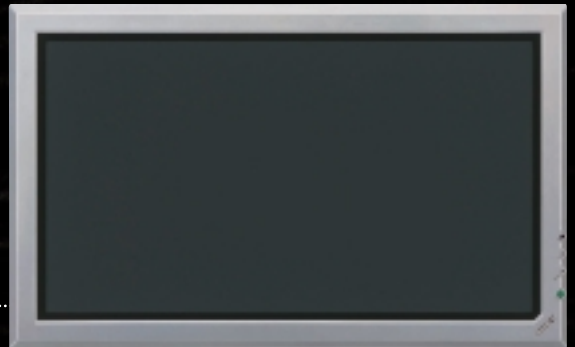 with an 'E' suffix.

PFM Series

PFM-50C1/50C1E
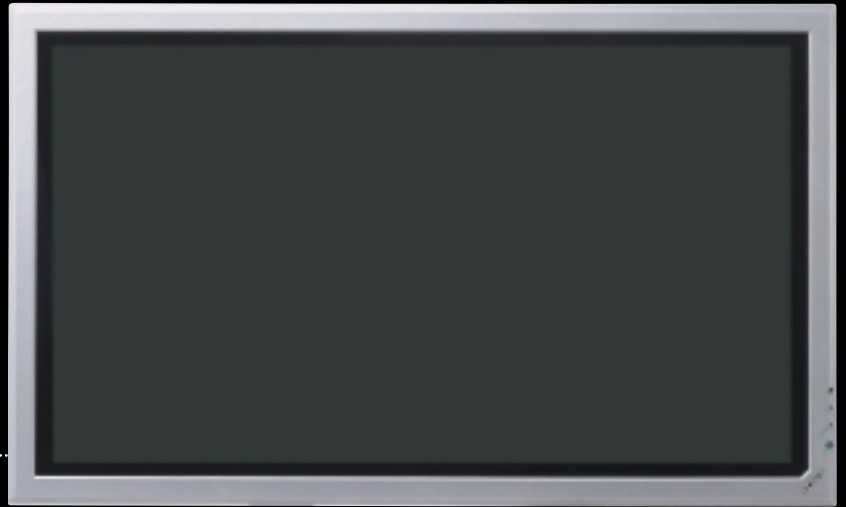
PFM-42B2/42B2E

PFM-32C1/32C1E
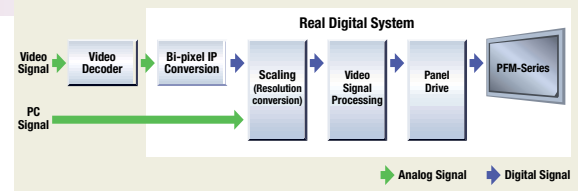
Brilliant Picture Quality

Real Digital System

| PFM 32 inch | PFM 50 inch |

With the unique Sony digital signal processing technology of the Real Digital System, all signals are both input and processed digitally to give highly accurate image reproduction.

A new bi-pixel I/P (Interlace/Progressive) conversion circuit, developed exclusively for Sony flat panel displays, converts interlaced signals to progressive images of effectively higher definition. For film-originated sources, the Cinema Drive function (3-2 pull-down technology) is incorporated to help reproduce scene movement more naturally.

Real Digital System

Video Signal → Video Decoder → Bi-pixel IP Conversion → Scaling (Resolution conversion) → Video Signal Processing → Panel Drive → PFM-Series

PC Signal →

Analog Signal   Digital Signal

| PFM 42 inch | * The PFM-42B2 delivers excellent, clear, smooth images thanks to the combination of its high-quality panel and Sony original I/P conversion technology.

Multi-Layer, AR-Coated, Protection panel

| PFM 32 inch | PFM 42 inch | PFM 50 inch |

The anti-reflection (AR) coating on the glass protection panel reduces light reflection for clear, high-contrast pictures.

Multiple Inputs and High-performance Scan Converter

| PFM 32 inch | PFM 42 inch | PFM 50 inch |

PFM Series displays utilize high-definition, 16:9 flat panels that provide smooth, high-quality images across the screen. They accept signals ranging from standard composite video* to HDTV, DTV and RGB computer signals at up to UXGA resolution. A range of optional input adaptors is available, providing superb system flexibility. A built-in, high-performance scan converter offers optimum image quality whatever the signal format, providing accurate pixel-by-pixel image reproduction.

An optional BKM-B10 Adaptor is required to accept composite video signals.

Versatile and stylish

| PFM 32 inch | PFM 42 inch | PFM 50 inch |

With their simple, yet sophisticated appearance, the PFM Series of displays offer a stylish, high impact, way to convey messages. A silver bezel gives a sharp and sophisticated look that is right for any environment*. With excellent installation flexibility, these slim, lightweight displays provide large, superb quality images in minimal space.

The bezel of the PFM-42B2 has a color choice between warm silver and dark gray.
The bezels of the PFM-50C1 and PFM-32C1 are cool silver.

Network Capability (with the optional BKM-B30NW Adaptor)

| PFM 42 inch | PFM 50 inch |

The optional BKM-B30NW Network Adaptor provides an Ethernet 10Base-T/100Base-TX interface, plus a PC Card slot, to provide network connection for the PFM Series. Wired or wireless, these two PFM Series displays are ready to interface with the expanding world of visual network communications. This adaptor also provides a Y/C and a composite analog input.

• File sharing through a network
When these displays are connected to a network, files shared in that network can be retrieved and opened for display*.
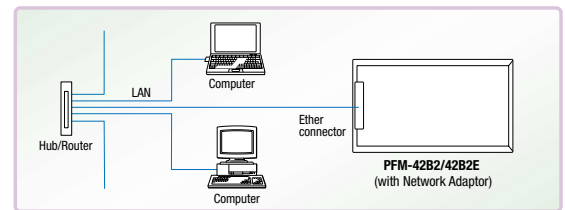
* Microsoft® PowerPoint® (PPT, PPS), Excel (XLS), JPEG, GIF, BMP and PNG files are supported.

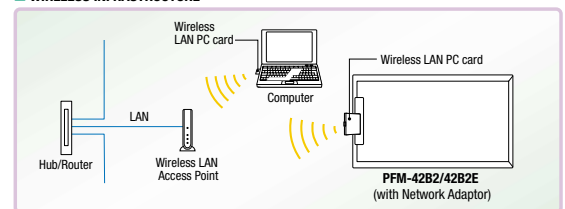### • Remote control from networked PCs
Any PC within a network can communicate with the 42-inch or 50-inch display via a web browser*. Operating presentations, organizing files and controlling both the display's functions and its setup parameters can all be done with a simple operation.

* System requirements
OS: Microsoft Windows® 98, Windows 98 SE, Windows Me or Windows 2000
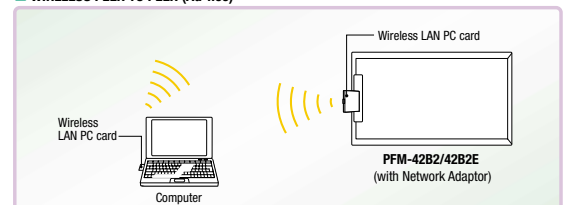Web browser: Internet Explorer 4.0 or later or Netscape® Communicator 4.5x or 4.7x

■ WIRED

LAN
Computer
Hub/Router
Ether connector
Computer
PFM-42B2/42B2E
(with Network Adaptor)

■ WIRELESS INFRASTRUCTURE

Wireless LAN PC card
Wireless LAN PC card
Computer
LAN
Hub/Router
Wireless LAN Access Point
PFM-42B2/42B2E
(with Network Adaptor)

■ WIRELESS PEER TO PEER (Ad-hoc)

Wireless LAN PC card
Wireless LAN PC card
Computer
PFM-42B2/42B2E
(with Network Adaptor)

| PFM 32 inch | PFM 42 inch | PFM 50 inch | NOTE:These icons indicate which features are available for each model.

High-quality Digital Audio Amplifiers

PFM 32 inch **PFM 50 inch** These two models incorporate high-quality digital amplifiers for clear audio reproduction.

These amplifiers feed Speaker Out (L/R) connectors so that optional speakers can be connected to enhance the effectiveness and quality of presentations.

Other Features

- **Choice of remote control operation**
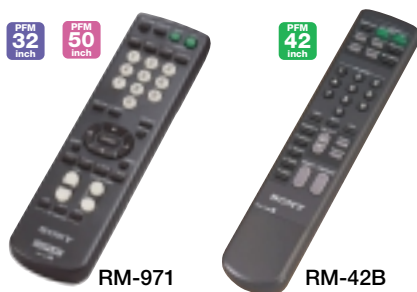 Operational functions can be controlled from the supplied remote control unit* or via RS-232C.
  RM-971 for the PFM-32C1 and PFM-50C1, RM-42B for the PFM-42B2

RM-971   RM-42B

- **Mounting freedom**
  All models can be mounted horizontally or vertically, fixed on an optional stand, on a wall or hung from the ceiling.

- **PFM 32 inch / PFM 50 inch Picture Mode function**
  Three user presets and two fixed sets of display parameters are available.

- **Selectable aspect ratio**
  Aspect ratios for Widescreen 16:9, Wide Zoom, Letter Box Zoom or Standard 4:3 displays are selectable.

- **Choice of color temperature setting**
  Up to three color temperature setting can be registered with the PFM-32C1 and PFM-50C1, and up to six settings with the PFM-42B2.

- **Size control**
  Picture size can be adjusted both vertically and horizontally.

- **Shift control**
  The center of the picture can be adjusted both vertically and horizontally.

- **Picture zoom**
  A section of the picture can be zoomed in for a closer look. This feature also allows up to 4x4 units to be used in video wall applications.

- **Auto Wide function**
  The Auto Wide function automatically enlarges the video image to fill the 16:9 wide screen

- **Dot phase adjustment**
  This function optimizes the scan converter sampling phase to the input signal.

- **Memory save/load**
  Stores up to twenty picture settings.

- **Six-language on-screen display**
  Quick and simple setup in English, French, German, Italian, Spanish and Japanese.

- **Closed Caption decoder**
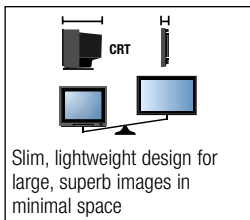
- **Screen Saver functions**
  Picture Orbiting mode and Picture Inversion mode can be selected.
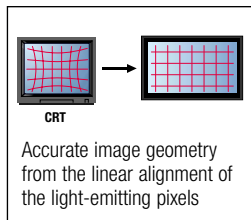
- **Power Saving function**

- **24-hour on/off timer**
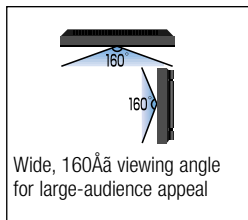
- **Worldwide power supply range**

Flat Panel Advantages

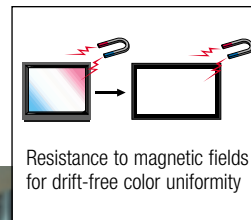Slim, lightweight design for large, superb images in minimal space

Accurate image geometry from the linear alignment of the light-emitting pixels

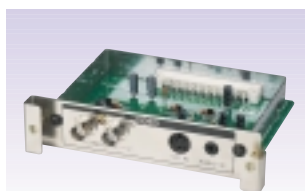Wide, 160Åã viewing angle for large-audience appeal

Resistance to magnetic fields for drift-free color uniformity

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

Optional Accessories

PFM 32 inch · **PFM 42 inch** · **PFM 50 inch**

Video Input Adaptor
BKM-B10
- Composite input/output
- Y/C input
- Audio input (x1)

PFM 32 inch · **PFM 42 inch** · **PFM 50 inch**

D4 Input Adaptor
BKM-B11
- Analog composite input (D4)
- Analog composite input (pin jack)
- Y/C input
- Audio input (X2)

PFM 42 inch

Component Video Input Adaptor
BKM-B12
- Analog component input (pin jack)
- Control-S input/output

PFM 42 inch

Composite Video Input and Control S Adaptor
BKM-B13
- Composite input/output
- Y/C input
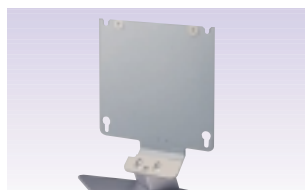- Control-S input/output

PFM 42 inch · **PFM 50 inch**

Network Adaptor
BKM-B30NW
- Y/C input
- Analog composite input (pin jack)
- Ethernet 10Base-T/100Base-TX interface
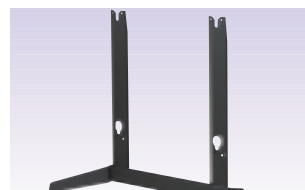- PC Card slot Type II
- USB port (A type) (x 2)

PFM 32 inch · **PFM 50 inch**

Speaker System
SS-SP10A

PFM 32 inch

Monitor Stand
SU-P32C

PFM 50 inch

Monitor Stand
SU-P50C

This picture shows SU-P32C.

PFM 42 inch

Monitor Stand
SU-42B

Connector Panel
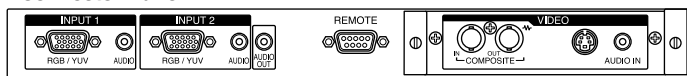
PFM-42B2
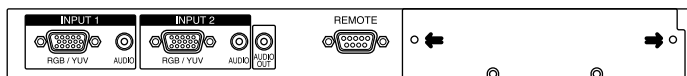
PFM-42B2E
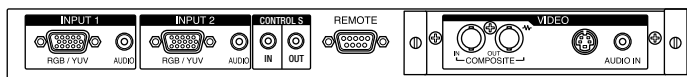
PFM-32C1   PFM-50C1
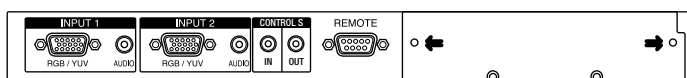
PFM-32C1E   PFM-50C1E

Control Panel

MENU   ⇩   ⇧   ENTER   − VOLUME +
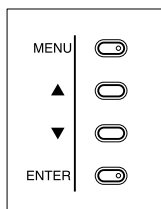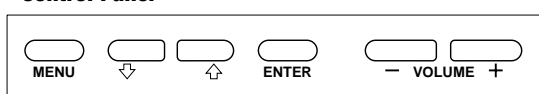
PFM 32 inch · **PFM 50 inch** The control panel is located on the top of the unit.

MENU
▲
▼
ENTER

PFM 42 inch The control panel is located on the rear of the unit.

Note:
The power switch is equipped on the front of the display.

Dimensions

PFM 50 inch

44.5
755
44.5
44.5   1246   44.5
430
100   11.5

PFM 42 inch

35.5
631
35.5
35.5   1033   35.5
400
83   11.5

PFM 32 inch

45
521
45
45   838   45
330
97
110.5
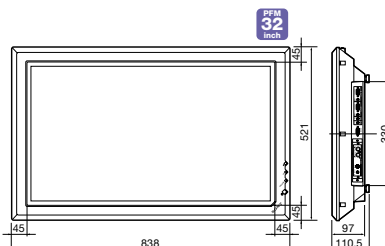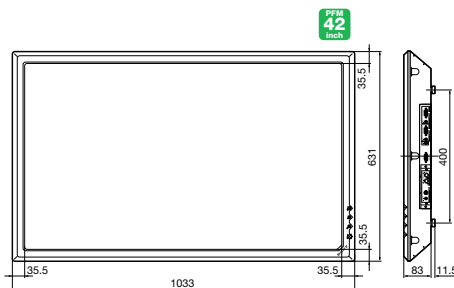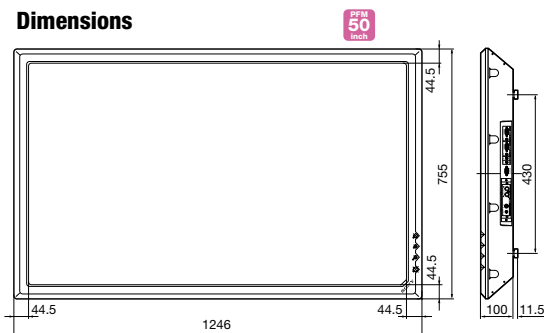
Specifications

Picture Performance		PFM32C1/32C1E	PFM42B2/42B2E	PFM50C1/50C1E
Panel	Resolution	852 x 1024 pixels	1024 x 1024 pixels	1365 x 768 pixels
	Pixel pitch	0.84 x 0.39 mm	0.90 x 0.51 mm	0.81 x 0.81 mm
	Active area (W/H)	715.68 x 399.36 mm	921.60 x 522.24 mm	1106 x 622 mm
	Viewable picture area	32-inch/820 mm (diagonal)	42-inch/1,058 mm (measured diagonally)	50-inch/1270 mm (diagonal)
	Colors		16.8 million colors simultaneously	
	Type		AC-type Plasma Display Panel with anti-reflection screen	
Color system		NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL 60, PAL-N	NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL 60	NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL 60, PAL-N
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*1	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	
			0.3 Vp-p ±2 dB sync negative (PAL), 75 Ω	
	AUDIO IN		Stereo mini jack, 500 mV rms, high impedance	
	COMPOSITE OUT		Loop-through BNC	
CONTROL S IN/OUT		Stereo mini jack, 5.0 Vp-p		Stereo mini jack, 5.0 Vp-p
REMOTE (RS-232C)			D-sub 9-pin	
Audio OUT			Stereo mini jack, 500 mV rms, high impedance	
SPEAKER OUT (L/R)		7 W + 7 W (impedance: 6 Ω)		7 W + 7 W (impedance: 6 Ω)
General				
Power requirements		AC 100 to 240 V, 50/60 Hz, 3.2 to 1.6 A	AC 100 to 240 V, 50/60 Hz, 4.5 to 1.8 A	AC 100 to 240 V, 50/60 Hz, 5.4 to 2.2 A
Power consumption		270 W	360 W	490 W
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*2 (W/H/D)		838 x 521 x 97 mm (33 x 20 5/8 x 3 7/8 inches)	1033 x 631 x 83 mm (40 3/4 x 24 7/8 x 3 3/8 inches)	1246 x 755 x 100 mm (33 x 20 5/8 x 3 7/8 inches)
Mass		22 kg (48 lb 8 oz)	28.4 kg (62 lb 9 oz)	43 kg (48 lb 8 oz)
Supplied Accessories				
			AC Power Cord, AC Plug Holder (2), AA size Battery (2), Cable Holder A (2), Cable Holder B (4), Operating Instructions	
		Remote Commander RM-971	Remote Commander RM-42B	Remote Commander RM-971
Regulation Compliance				
			UL1950, CSA No.950 (c-UL), CE LVD (EN60950), 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, JEIDA, CB, KTL, MIC	

*1 The PFM-32C1E, PFM-42B2E and PFM-50C1E require an optional BKM-B10 adaptors to accept video signals.
*2 Excluding protruding parts.

Preset Signals

VIDEO	fH (kHz)	Frame rate*1 (Hz)	Resolution (Active)	
NTSC	15.734	60	480	lines
PAL	15.625	50	575	lines
SECAM	15.625	50	575	lines
NTSC4.43	15.734	60	480	lines
PAL60	15.734	60	480	lines
PAL-M	15.734	60	480	lines
PAL-N*2	15.734	60	480	lines
575/50I	15.625	50	575	lines
480/60I	15.734	60	480	lines
1080/24PsF	27.000	24	1080	lines
1080/50I	28.125	50	1080	lines
576/50P	31.250	50	576	lines
480/60P	31.469	60	480	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	70.1	640 x 480	dots
640 x 350 @85 (VESA STD)	37.9	85.1	640 x 350	dots
640 x 400 @85 (VESA STD)	37.9	85.1	640 x 400	dots
640 x 480 @60 (VESA STD)	31.5	59.9	640 x 480	dots
Mac 13"	35.0	66.7	640 x 480	dots
640 x 480 @72 (VESA STD)	37.9	72.8	640 x 480	dots
640 x 480 @75 (VESA STD)	37.5	75.0	640 x 480	dots
640 x 480 @85 (VESA STD)	43.3	85.0	640 x 480	dots
852 x 480 @60 (I-O DATA)*3	31.7	60.0	852 x 480	dots

	fH (kHz)	fV (Hz)	Resolution (Active)	
VGA (VGA TEXT)	31.5	70.1	720 x 400	dots
720 x 400 @85 (VESA STD)	37.9	85.0	720 x 400	dots
800 x 600 @56 (VESA STD)	35.2	56.3	800 x 600	dots
800 x 600 @60 (VESA STD)	37.9	60.3	800 x 600	dots
800 x 600 @72 (VESA STD)	48.1	72.2	800 x 600	dots
800 x 600 @75 (VESA STD)	46.9	75.0	800 x 600	dots
800 x 600 @85 (VESA STD)	53.7	85.1	800 x 600	dots
Mac 16"	49.7	74.6	832 x 624	dots
1024 x 768 @60 (VESA STD)	48.4	60.0	1024 x 768	dots
1024 x 768 @70 (VESA STD)	56.5	70.1	1024 x 768	dots
1024 x 768 @75 (VESA STD)	60.0	75.0	1024 x 768	dots
1024 x 768 @85 (VESA STD)	68.7	85.0	1024 x 768	dots
1152 x 864 @75 (VESA STD)	67.5	75.0	1152 x 864	dots
Mac 21"	68.7	75.1	1152 x 870	dots
1280 x 960 @60 (VESA STD)	60.0	60.0	1280 x 960	dots
1280 x 960 @85 (VESA STD)	85.9	85.0	1280 x 960	dots
1280 x 1024 @60 (VESA STD)	64.0	60.0	1280 x 1024	dots
1280 x 1024 @75 (VESA STD)	80.0	75.0	1280 x 1024	dots
1280 x 1024 @85 (VESA STD)*4	91.1	85.0	1280 x 1024	dots
1600 x 1200 @60 (VESA STD)*5	75.0	60.0	1600 x 1200	dots
856 x 480 @60 (Matrox)*6	30.2	60.0	856 x 480	dots
856 x 480 @59.6 (Matrox)*6	30.1	59.6	856 x 480	dots
856 x 480 @60.1 (Matrox)*6	30.1	60.1	856 x 480	dots

*1 Compatible with 1/1.001.
*2 Acceptable to the PFM-32C1 and PFM-50C1
*3 With the graphic accelerator board of I-O DATA DEVICE, INC.
*4 Acceptable to the PFM-42B1 and PFM-50C1
*5 Dot phase adjustment not applicable to UXGA (1600 x 1200).
*6 With the graphic card of Matrox Graphics Inc.

SONY

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