

SONY[®]

Professional Flat Panel Displays

PFM Series

PFM-50C1

PFM-42B2

PFM-32C1



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 1024 x 852 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.

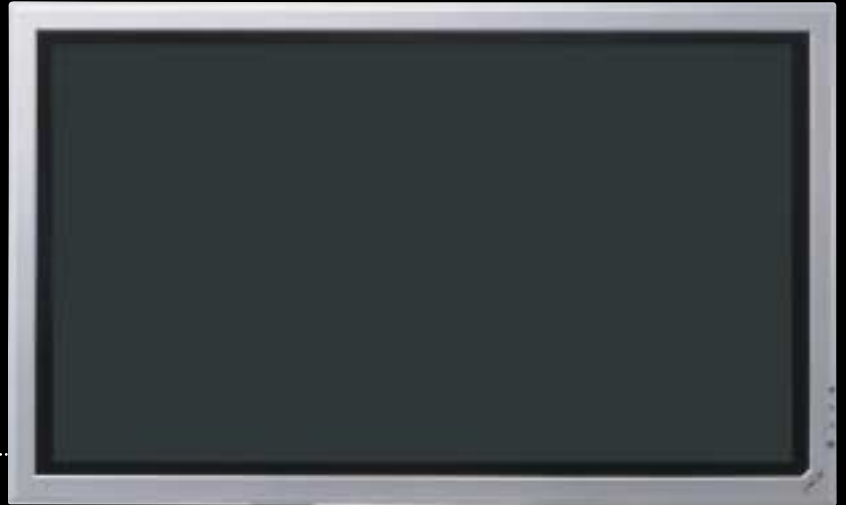
All three models include a range of versatile features for unsurpassed usability, and combine their superb performance with stylish design. The 32-inch and 50-inch include a stereo digital amplifier to power optional external loudspeakers.

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.

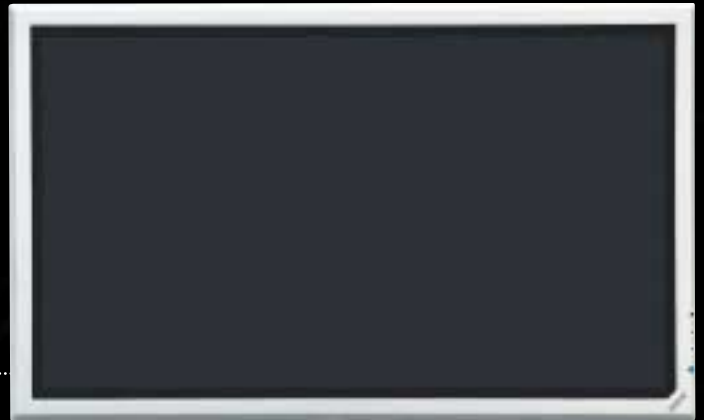


PFM Series

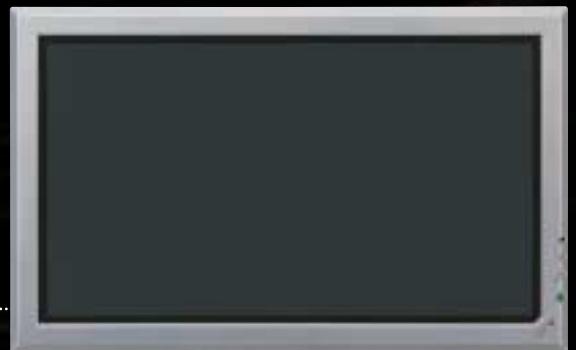
PFM-50C1



PFM-42B2



PFM-32C1



*The bezel of the PFM-42B2 has a colour choice between warm silver and dark gray.

*The bezels of the PFM-50C1 and PFM-32C1 are cool silver.

Brilliant Picture Quality

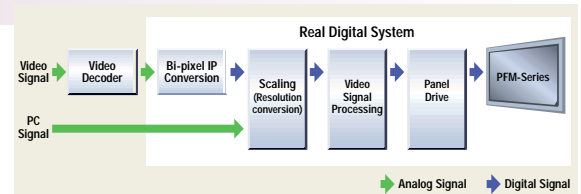
Real Digital System

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.



PFM 42 inch

* The PFM-42B2 delivers excellent, clear, smooth images with 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 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 utilise high-resolution, 16:9 flat panels that provide smooth, high-quality images across the screen. They accept a variety of signals sources including Composite, S-Video, Component, DTV, HDTV and data up to UXGA resolution. A built-in, high-performance scan converter offers optimum image quality whatever the signal format, providing accurate pixel-by-pixel image reproduction.

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 colour 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

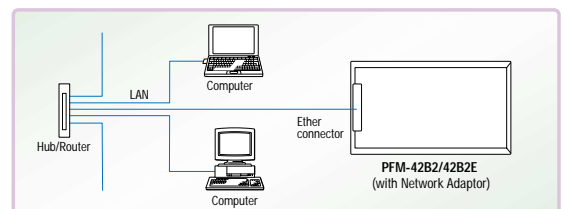
Any PC within a network can communicate with the 42-inch or 50-inch display via a web browser*. Operating presentations, organising files and controlling both the display's functions and its setup parameters can all be done with a simple operation.

* System requirements

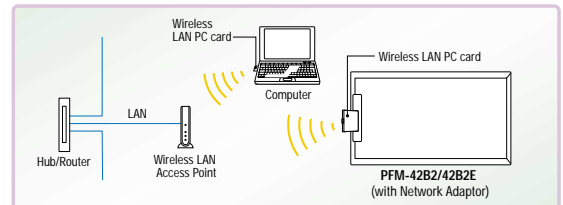
OS: Microsoft Windows® 98, Windows 98 SE, Windows Me or Windows 2000

Web browser: Internet Explorer 4.0 or later or Netscape® Communicator 4.5x or 4.7x

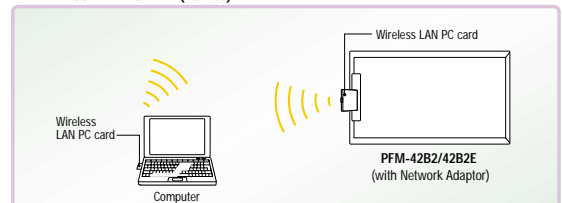
■ WIRED



■ WIRELESS INFRASTRUCTURE



■ WIRELESS PEER TO PEER (Ad-hoc)



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

PFM
32
inch

PFM
50
inch

PFM
42
inch



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. See optional accessories.

- **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 colour temperature setting**

Up to three colour temperature settings 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 centre 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 optimises 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.

- **Screen Saver functions**

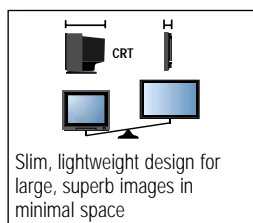
Picture Orbiting mode and Picture Inversion mode can be selected.

- **Power Saving function**

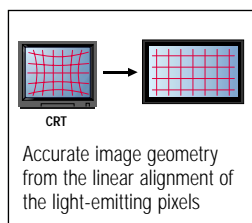
- **24-hour on/off timer**

- **Worldwide power supply range**

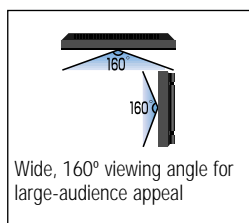
Flat Panel Advantages



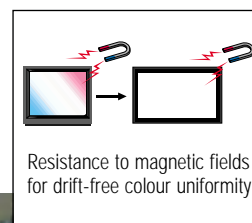
Slim, lightweight design for large, superb images in minimal space



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

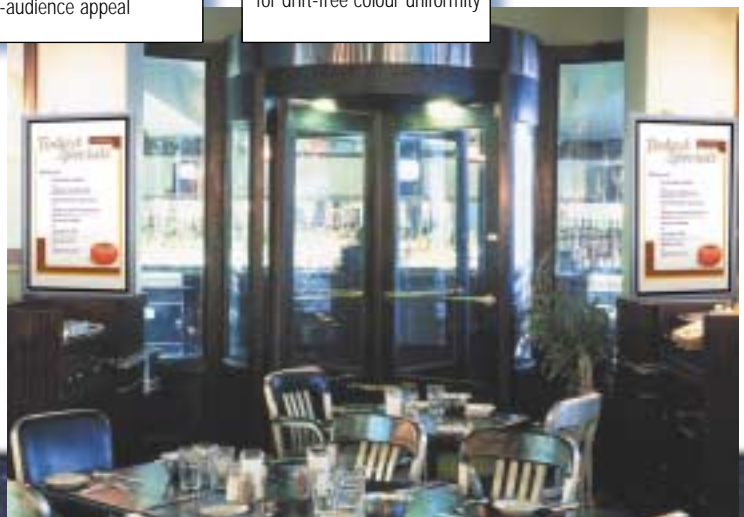


Wide, 160° viewing angle for large-audience appeal



Resistance to magnetic fields for drift-free colour 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 42 inch PFM 50 inch

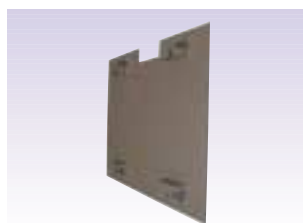
Network Adaptor BKM-B30NW

- 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



Flat Wall Mounting Bracket

- PFM 32 inch **MB32 FLAT**
- PFM 42 inch **MB42 FLAT**
- PFM 50 inch **MB50 FLAT**



Tilt Adjustable Wall Mounting Bracket

- PFM 32 inch **MB32 ADJ**
- PFM 42 inch **MB42 ADJ**
- PFM 50 inch **MB50 ADJ**



PFM 42 inch

Component Video Input Adaptor BKM-B12

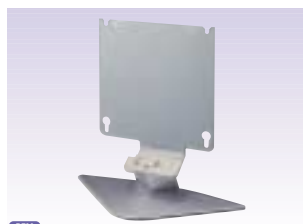
- Analog component input (pin jack)
- Control-S input/output



PFM 42 inch

Composite Video Input and Control S Adaptor BKM-B13

- Composite input/output
- Y/C input
- Control-S input/output



Monitor Stand SU-P32C

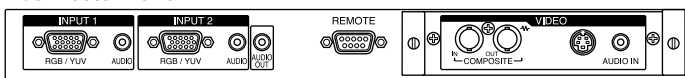
This picture shows SU-P32C.

Monitor Stand SU-P50C

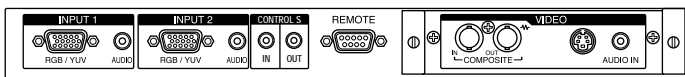


Monitor Stand SU-42B

Connector Panel

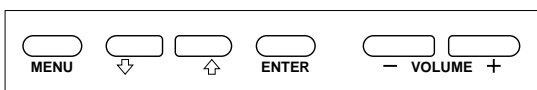


PFM-42B2

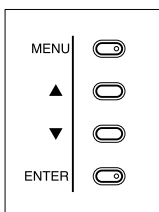


PFM-32C1 PFM-50C1

Control Panel



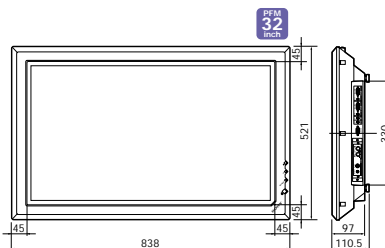
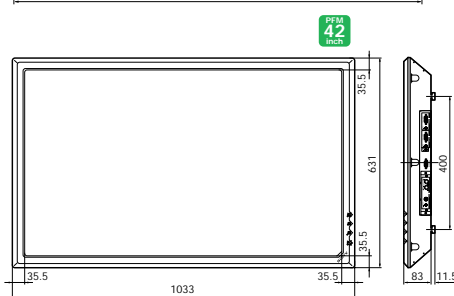
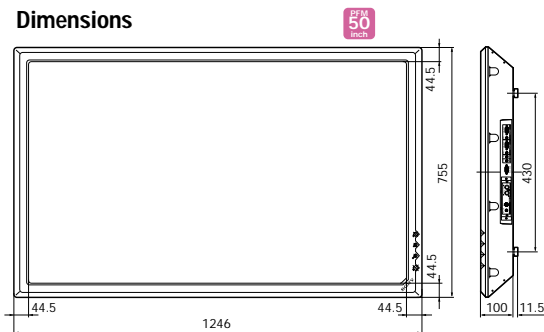
PFM 32 inch PFM 50 inch The control panel is located on the top of the unit.



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



Specifications

| Picture Performance | | PFM32C1 | PFM42B2 | PFM50C1 |
|-----------------------|--|---|--|--|
| 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) |
| | Colours | 16.8 million colours simultaneously | | |
| | Type | AC-type Plasma Display Panel with anti-reflection screen | | |
| Colour 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 (L/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 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 (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 | | |

* 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 ³⁾ | 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 |

| | | | |
|--|------|------|------------------|
| 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 ⁴⁾ | 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 ⁵⁾ | 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.

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