



PVM-14M2MDU/20M2MDU Medical Color Video Monitors



Sony
Medical
Systems

Designed specifically for use in medical applications, the M2MD Series Monitors provide the exceptional clarity and color fidelity required for endoscopy, ultrasound, surgical and laboratory microscopy. These medical monitors are UL 2601-1 listed, and offer an HR (High Resolution) Trinitron® picture tube, in addition to compatibility with NTSC and PAL color systems. The design, incorporating knob controls, splash guards and on-screen menus, provides flexibility and easier access to monitor setup.



Features

- ◆ High Resolution Trinitron picture tube
- ◆ On-screen menu in five languages
- ◆ Knob controls of Brightness, Contrast, Aperture, Phase, Chroma and Volume
- ◆ IzzitOn® System provides visual recording confirmation
- ◆ RGB Split Screen (two RGB inputs)
- ◆ Analog RGB, Y/C and composite video
- ◆ Auxiliary 8 volt DC output
- ◆ Improved contrast CRT
- ◆ Improved frequency response
- ◆ Splash-proof panels protect against liquids
- ◆ Front Panel Cover prevents inadvertent operation
- ◆ RS-232C control
- ◆ Automatic selection of standard color systems: NTSC and PAL
- ◆ UL-2601-1 Listed

Specifications - PVM-14M2MDU/20M2MDU Medical Color Video Monitors

VIDEO SIGNAL

Color System: NTSC, PAL
Aperture correction: 0db to ± 6.0 db
Frequency response: LINE 10.0 Mhz (-3 dB)
 RGB 10.0 Mhz (-3 dB) (equivalent to 600 TV Lines)
Synchronization: AFC time constant 1.0 msec.

PICTURE PERFORMANCE

Overscan: 20% overscan of CRT effective screen area
Normal scan: 7% overscan of CRT effective screen area
Underscan: 5% underscan of CRT effective screen area
Picture Tube Resolution: 600 TV lines at center
CRT: P-22 phosphor
Color temperature: 6,500K-9,300K, USER (3200K-10000K, factory setting is 6500K)
Maximum Diagonal Viewable Area: PVM-14M2MDU - 13"
 PVM-20M2MDU - 19"

INPUTS

Y/C IN: 4-pin mini DIN connector
VIDEO IN: BNC connector
 1V p-p ± 6 dB, sync negative
AUDIO IN: phonojack, -5dBu, more than 47kohms
R-R-Y, G-Y, B-B-Y IN: BNC connector
 R, G, B channels: 0.7 V p-p, ± 6 dB
 Sync on green: 0.3 V p-p, negative, 75 ohms terminated
R-Y, B-Y channels: 0.7 V p-p, ± 6 dB
Y-channel: 0.7 V p-p, ± 6 dB
 (Standard color bar signal of 75% chrominance)
EXT SYNC IN: BNC connector
 Composite sync 4V p-p, ± 6 dB, negative

OUTPUTS

Y/C OUT: 4-pin mini DIN connector
VIDEO OUT: BNC connector, 75 ohms terminated
AUDIO OUT: phonojack, Output level 0.5W
R-R-Y, G-Y, B-B-Y OUT: BNC connector, 75 ohms terminated
EXT SYNC OUT: BNC connector, 75 ohms terminated

REMOTE INPUT

REMOTE: 8-pin mini-DIN connector
RS-232C: 9-pin D-SUB connector

GENERAL

Power consumption: Approx. 60W PVM-14M2MDU
 Approx. 115W PVM-20M2MDU
Power requirements: 120V AC, 50/60 Hz
Operating temperature: 0-35° C
Storage temperature: -10 to +40° C

Humidity:

0-90%

Compliance:

UL 2601-1 Listed

Dimensions:

PVM-14M2MDU
 Approx. 346x340x430.5mm (w/vid)
 (13 5/8 x 13 1/2 x 16 7/8 inches)

PVM-14M2MDU

Approx. 450x457.5x503mm (w/vid)
 (17 3/4 x 18 1/8 x 19 7/8 inches)
 not including projecting parts and controls

PVM-14M2MDU

Approx. 15.7 kg (36 lb 14 oz.)

PVM-20M2MDU

Approx. 30 kg (66 lb 2 oz.)

Weight:

Warranty:

3 years parts and labor
 2 years CRT

Supplied Accessories:

AC power cord (1)
 AC plug holder (1)
 Splash-proof Panels (2)
 Front Panel Cover (1)
 Panel Hinges (2)
 Remote Control Connector
 8-pin mini DIN (1)
 Operating Instructions (1)
 Interface Manual for Programmers (1)
 IzzitOn System Cable

Optional Accessories:

Pin Assignment

Pin No.	DIN 8-pin	D-sub 9-pin
1	REMOTE ON/OFF	-
2	LINE A	TX
3	GND	RX
4	LINE B	-
5	TALLY	GND
6	OVERSCAN	-
7	RGB A	RTS
8	RGB B	CTS
9	-	-



Rear Panel Input/Output Terminals



Front Panel Controls

SONY

Sony Medical Systems

Sony Electronics Inc.

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Park Ridge, NJ 07656

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Technical Support: 1-800-883-6817

<http://www.sony.com/medical>



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Caution: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional.

Caution: See applicable product literature for indications, contraindications, warnings, cautions and directions for use.

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