PVM-14M2MDE
PVM-20M2MDE

MEDICAL COLOUR VIDEO MONITORS

Designed specifically for use in medical applications, the PVM-14M2MDE and PVM-20M2MDE monitors provide the exceptional clarity and colour fidelity required in fields such as endoscopy, ultrasound, pathology and laboratory microscopy. These monitors comply with world-wide medical safety standards, are compatible with NTSC and PAL colour systems, while a number of features enhance flexibility and user-friendliness.

Features

High resolution
These monitors achieve a high resolution of 600 TV lines, with a dark tint-faced CRT for high-contrast images.

Colour accuracy
The monitors employ a beam current feedback circuit to minimise any colour temperature drift which can affect the accuracy of colour reproduction.

On-screen menu control
An on-screen menu assists with set-up and operation. This menu is available in English, French, German, Italian and Spanish.

Customised operation
A user memory is available for the recall of Brightness, Chroma, Phase, Contrast, Volume and Aperture control settings.

Colour temperature selection
Four colour temperatures can be selected, including "user pre-set", which can be precisely adjusted within a range of 3,200K to 10,000K.

Scan size selection
The scan size can be selected from three modes.

RGB split
This enables the colours from two devices, for example a camera and a printer, to be displayed one above the other for easy comparison and precise adjustment.

Remote/tally
These monitors are equipped with two types of remote control interface: a parallel interface controls input selection, the overscan function and Tally, while the monitor can also be remotely controlled through a computer.

Safety features: fluid resistance and control protection
A pair of side covers are supplied which are attached to the ventilation holes to protect against liquid accidentally entering the monitor. The other cover goes over the control panel to prevent inadvertent operation. The monitors are also equipped with a ground earth terminal and benefit from low electrical leakage.

Metal cabinet
The monitors are housed in a metal cabinet for extra durability and to reduce electromagnetic interference.

Benefits

- Safety approval and reliability
- Superior picture performance
- Accurate colour production
- Ease of operation
- Effective operational functions
- Simultaneous input display
- Remote control
- Rack mountable
- Audio capacity

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PVM-14/20M2MDE SPECIFICATIONS

	PVM-20M2MDE	PVM-14M2MDE

Signal performance

Colour system	NTSC, PAL automatically selected	
Resolution	600 TV lines at centre	
Aperture correction	0 to +6dB	
Frequency response	LINE 10.0MHz (±3dB) *Y signal only, RGB 10MHz (±3dB)	
Synchronisation	AFC time constant 1.0mS	
Line pull range	H ±500Hz, V -8Hz	

Picture and performance

	PVM-20M2MDE	PVM-14M2MDE
CRT	20-inch CRT with P-22 phosphor, visible picture size 479.8mm (19-inch measured diagonally)	14-inch CRT with P-22 phosphor, visible picture size 331.6mm (13-inch measured diagonally)
AG pitch	0.4mm	0.25mm
Normal scan	7% overscan	
Over scan	20% overscan	
Under scan	5% underscan	
H linearity	less than 5% (typical)	less than 4% (typical)
V linearity	less than 5% (typical)	less than 4% (typical)
Convergence: centre	less than 0.6mm (typical)	less than 0.4mm (typical)
peripheral	less than 1.0mm (typical)	less than 0.5mm (typical)
Raster size stability	H less than 1.0%, V less than 1.5%	
HV regulation	less than 4.0%	less than 3.5%
Colour temperature	D65, D56, D93 USER (3200K to 10000K, factory set to D65)	

General

	PVM-20M2MDE	PVM-14M2MDE
AC input range	AC 100 to 240V, 50/60Hz	
Total power consumption	1.5 to 0.6A	1.2 to 0.5A
Audio out	0.8W monaural (distortion less than 5%)	
Operating conditions	0 to 40°C (32 to 104°F) temperature, 700 to 1060 hPa pressure, 30 to 85% humidity	
Storage conditions	-10 to 40°C (14 to 104°F) temperature, 700 to 1060 hPa pressure, 0 to 90% humidity	
Dimensions	450 (W) x 457.5 (H) x 503 (D) mm (17 3/4 x 18 1/8 x 19 7/8 inches)	346 (W) x 340 (H) x 430.5 (D) mm (13 5/8 x 13 1/2 x 17 inches)
Mass	30.0kg (66lb 2oz)	16.7kg (37lb 8oz)

Input / Outputs

Line A	Composite with loopthrough BNC, Automatic 75 Ω terminated, Audio IN/OUT, phono jack (monaural)
Line B	Y/C with loopthrough Mini DIN 4pin, Automatic 75 Ω terminated, Audio IN/OUT, phono jack (monaural)
RGB/COMPONENT A	RGB/COMPONENT with loopthrough BNC, Automatic 75 Ω terminated, Audio IN/OUT, phono jack (monaural)
RGB/COMPONENT B	RGB/COMPONENT, BNC, Audio IN, phono jack (monaural)
EXT SYNC for RGB input	RGB A: IN/OUT with loopthrough BNC, Automatic 75 Ω terminated, RGB B: IN, BNC
Remote/Tally inputs	MINI DIN 8-pin connector: input selection, remote on/off, overscan function control and tally control. D-sub 9pin connector: serial remote interface complying with RS-232C

Regulation Compliance

UL 2601-1, CSA 601.1, EN 60 601-1, (TÜV Rheinland/Gm mark), FCC-A, IC-A, CE(MDD), VCCI-A, JEIDA, C-TICK, DHHS, DNHW
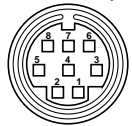
Supplied Accessories

AC power cord (1), AC plug holder (1), Side covers (2), Control panel cover (1), Panel hinges (2)
Remote control connector 8-pin mini DIN (1), Instructions for Use (1), RS-232C protocol manual (1)
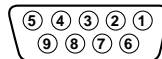
Optional Accessories

MB-502C Rack mounting bracket for PVM-14M2MDE, SLR-102 Slide rail for PVM-14M2MDE, SLR-103C Slide rail for PVM-20M2MDE

	MINI DIN 8-pin	D-sub 9pin
1	REMOTE ON/OFF	-
2	LINE A	RX
3	GND	TX
4	LINE B	-
5	TALLY	GND
6	OVERSCAN	-
7	RGB A	RTS
8	RGB B	CTS
9	-	-

MINI DIN 8-pin

D-sub 9pin

Front Panel Control Section

Rear Panel Control Section

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