SONY

PVM-1741

17-inch Professional OLED Picture Monitor

Overview

Full HD 10-bit quality in flexible compact design

The PVM-1741 "all- in- one" OLED picture monitor delivers outstanding full HD RGB 10-bit driver picture quality and professional features in a lightweight, compact design. Flexible mount options make the 17-inch monitor ideal for desktop editing, office viewing, studio monitor walls and OB vans.

Superb picture performance
The Super Top Emission OLED display panel benefits from TRIMASTER EL technology. It offers superb black performance, wide colour gamut and quick response with virtually no motion blur. By combining the Sony OLED display panel (Full HD, 10-bit driver) and Sony's OLED processing technologies, the PVM-2541 OLED monitor delivers groundbreaking picture quality.

Accepts computer signals via HDMI
The PVM-1741 accepts various computer signals input up to 1920 x 1080 through its HDMI connector.

Features

Sony OLED panel with full HD and RGB 10-bit driver

The PVM-1741 Super Top Emission OLED display panel features full HD resolution (1920 x 1080) and RBG 10-bit driver to create life-like and smoother-than-ever gradation from dark to bright portions of a scene.

TRIMASTER EL offers highest picture quality

TRIMASTER EL technology is a design architecture that enables the highest level of colour accuracy, precision imaging, and picture-quality consistency. Because the EL (Electro-Luminescence) layer inherently responds to any electrical current input, it emits light immediately. This allows excellent quick response characteristics in fast-motion images. This efficient, blur-free, fast response is beneficial across a variety of applications and scenes, such as sports broadcasting, the monitoring of camera panning and text scrolling.

Superb Black Performance

Thanks to Sony OLED display technology, all details in the black can be easily seen.

Wide colour gamut

Sony OLED provides the colour gamut specifications of the main broadcast standards: ITU-R BT.709, EBU and SMPTE-C.

High-purity deep colour reproduction

Sony's Super Top Emission technology uses micro-cavity and colour filters. The micro-cavity structure uses an optical resonance effect and the colour filters enhance the colour purity of each RGB colour. The technology also reduces ambient light reflection, so deep colour reproduction can be achieved without degradation, even in bright environments.

Uniformity of image across screen

The PVM-1741 monitor incorporates a newly-developed OLED processor to bring out the full performance of the Sony OLED panels. This OLED processor offers superb uniformity across the whole screen. At the factory, the OLED panel uniformity is precisely measured and corrected using a sophisticated RGB LUT (Look-Up Table) adjustment system.

Selection of four I/P modes

The PVM-1741 monitor provides four I/P modes so that users can select the most suitable mode for their purpose:

- Inter-field:
  This mode interpolates images between fields. This is used for optimum picture quality reproduction , for example, to reduce the jagged effect on moving pictures.

- Intra-field:
  This mode interpolates images within the field, and delivers naturally reproduced images and lower video delay. This mode is available for 1920 x 1080 SDI signal input.
- Field merge:
  This mode combines lines alternately in odd and even fields, regardless of picture movements. This is used for PsF (Progressive Segmented Frame) processing and still image monitoring.
- Line Doubler: This mode interpolates by repeating each line. This is used for editing and monitoring fast-moving images and checking line flicker. The

minimum processing time is less than one field (0.5 frames).

Maximum flexibility with lightweight compact design

The PVM-1741 incorporates a lightweight, compact metal body. It supports VESA mounting of 100 mm pitch and an EIA 19-inch standard rack mount. Although the monitor has its own display stand, an optional stand SU-561 is available for height and tilt picture adjustment. These features make the monitor ideal for use in a variety of applications, such as desktop editing, office viewing, studio monitor walls, or installing in an OB van.

Easy-to-use control panel

A rotary-type switch and seven function-assignable buttons allow users speedy and intuitive operation. Operation buttons with LED indicators enable error-free operation, even in dark environments. The LED lights can be switched on and off, as required.

Variety of standard inputs

The PVM-1741 is equipped with built-in standard input interfaces:
2 x 3G/HD/SD-SDI

Audio monitoring

The input signal's waveform with a 2-channel audio level meter can be displayed on screen. When an SDI interface is connected, the embedded audio level can be displayed on screen with an 8-channel audio level meter.

Time code display

A time code superimposed on SDI signals can be displayed on

screen. Users can select either LTC or VITC.

Automatic adjustment of white balance

The PVM-1741 monitor employs a software-based white balance calibration function called AutoWhiteBalance. Combined with a PC and commercially available calibration tool*, this enables simple adjustment of the monitor's white balance.
*The X-Rite Eye-one (i1) Pro Series

External remote control

The PVM-1741 has an external remote control capability for input/output signal selection and adjustment of various items via Ethernet (10BASE-T/100BASETX) connection. Up to 32 monitors and up to four control units can be connected via Ethernet connection and controlled remotely on the network. The PVM-2541 also supports some (though not all) of the functions of the BKM-16R – an optional remote control unit for BVM-E/BVM-L/PVM-L Series monitors – such as power on/off switch and Input Select function.

Specifications

Picture Performance	
Panel	OLED panel
Picture Size (Diagonal)	419.7 mm
Picture Size (Diagonal)	16 1/2 inches
Effective Picture Size (H x V)	365.8 x 205.7 mm

Effective Picture Size (H x V)	14 1/2 x 8 1/8 inches
Resolution (H x V)	1920 x 1080 pixels (Full HD)
Aspect	16:9
Pixel Efficiency	0.9999
Panel Drive	RGB 10-bit
Viewing Angle (Panel Specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)
Normal Scan	0% scan
Over Scan	5% over scan
Color Temperature	D65, D93, User
Warm-up Time	Approx. 30 minutes

Input	
Composite Input	BNC (x1), 1.0 Vp-p ±3dB sync negative
SDI Input	BNC (x2)
HDMI Input	HDMI (x1) (HDCP correspondence)
Audio Input	Stereo mini jack (x1), -5 dBu 47 kΩ or higher

Parallel Remote	Modular connector 8-pin (x1)
Parallel Remote	(Pin-assignable)
Serial Remote (LAN)	RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)
DC Input	XLR-type 4-pin (male) (x1), 12V DC (output impedance 0.05 Ω or less)

Output

Composite Output	BNC (x1)
Composite Output	Loop-through, with 75 Ω automatic termination
SDI Output	BNC (x1)
SDI Output	Output signal amplitude: 800 mVp-p ±10%
SDI Output	Output impedance: 75 Ω unbalanced
Audio Monitor Output	Stereo mini jack (x1)
Speaker (Built-in) Output	1.0 W (mono)
Headphone Output	Stereo mini jack (x1)

General	
Power Requirements	100 V to 240 V AC, 1.0 A to 0.5 A, 50/60 Hz
Power Requirements	12V DC, 7.0 A
Power Consumption	Approx. 90 W (AC power supply) (max.)
Power Consumption	Approx. 70 W (AC power supply) (average power consumption in the default status)
Inrush Current	(1) Maximum possible inrush current at initial switch-on (Voltage changes caused by manual switching): 35 A peak, 7 A r.m.s. (240V AC)
Inrush Current	(2) Inrush current after a mains interruption of five seconds (Voltage changes caused at zero-crossing): 39 A peak, 7 A r.m.s. (240V AC)
Operating Temperature	0°C to 35°C (Recommended: 20°C to 30°C)

Operating Temperature	32°F to 95°F (Recommended: 68°F to 86°F)
Operating Humidity	30% to 85% (no condensation)
Storage/Transport Temperature	-20°C to +60°C
Storage/Transport Temperature	-4°F to +140°F
Storage/Transport Humidity	0% to 90%
Operating/Storage/Transport Pressure	700 hPa to 1060 hPa
Dimensions (W x H x D) [*1]	436.0 x 289.6 x 120.0
Dimensions (W x H x D) [*1]	436.0 x 305.6 x 131.4 (with stand)
Dimensions (W x H x D) [*1]	17 1/4 x 11 1/2 x 4 3/4 inches
Dimensions (W x H x D) [*1]	17 1/4 x 12 1/8 x 5 1/4 inches (with stand)
Mass	Approx. 7.2 kg
	Approx. 9.3 kg(with an

Mass	optional SU-561 monitor stand)
Mass	Approx. 15 lb 14 oz
Mass	Approx. 20 lb 8 oz(with an optional SU-561 monitor stand)
Supplied Accessories	AC power cord (1)
Supplied Accessories	AC plug holder (1)
Supplied Accessories	Mounting bracket (2) (including 4 screws)
Supplied Accessories	Operating instructions (1)
Supplied Accessories	CD-ROM (1)
Supplied Accessories	Using the CD-ROM Manual (1)
Optional Accessories	SU-561 Monitor Stand

Notes	
Note	[*1] The values for dimensions are approximate.

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