SONY

Color Video Monitor

PVM-20L2*
PVM-14L2*
PVM-9L2*

*Viewable area measured diagonally

PVM-L2 Series

Introducing Sony's new cost-effective PVM-L2 Series – everything you'd expect in Sony Trinitron® professional monitors, and much more. Enhanced by stunning high-resolution image quality and new input flexibility, these monitors provide a wide range of options for broadcast, studio, and field production needs.

With your choice of 20", 14" or 9" CRT's, option slots to provide SDI and SDTI-CP, and additional analog component input capability, the PVM-L2 Series gives you unprecedented flexibility. In addition to this flexibility, the PVM-L2 Series monitors have a quick response time, which is inherent in CRT monitors. Never before has Sony packed so much value and performance in a monitor series ideally suited to so many applications, today and tomorrow!

PVM-14L2

PVM-20L2

PVM-9L2

Features

Superior Picture Performance

◗ High Picture Quality

The Trinitron CRT incorporated in both the PVM-20L2 and PVM-14L2 provides clear and precise images with a resolution of 600 TV lines*.

* Supported on PVM-20L2 and PVM-14L2 monitors. The PVM-9L2 incorporates a Trinitron CRT that provides images with a resolution of 250 TV lines.

◗ Beam-Current Feedback Circuit

Because monitor white balance is prone to drift during continuous operation over long periods of time, PVM-L2 Series monitors are equipped with a beam-current feedback circuit. This corrects white balance drift, resulting in the long-term stability of color reproduction.

◗ Digital Comb Filter

The NTSC/PAL digital comb filter enhances the luminance/chrominance separation used to reduce cross-color interference and color noise, ensuring clear and highly detailed picture reproduction.

Input Flexibility

◗ Versatile Signal Input

PVM-L2 Series monitors are equipped with input connectors for component (Y/R-Y/B-Y)*, RGB*, Y/C and composite signals to provide system flexibility. For accurate reproduction, the component level can be adjusted according to the input system.

* The PVM-9L2 monitor requires the optional BKM-129X Analog Component Input Adaptor.

◗ NTSC/PAL Operation

PVM-L2 Series monitors can automatically detect whether the composite signal input is NTSC or PAL. Users are not required to manually select the appropriate color system.

◗ Signal Interface Options

With an optional adaptor inserted into the option slot on the rear panel, PVM-L2 Series monitors can accept direct input from a wide variety of signal formats.

SDI 4:2:2 Input Adaptor

BKM-120D

- D-1 SDI signal input (x 2)/D-1 SDI signal output with active loop-through (x 2)
- Power consumption: 4 W
- Dimensions (W x H x D): 24.7 x 161.4 x 121.8 mm (1 x 6 3/8 x 4 7/8 inches)
- Mass: Approx. 310 g (11 oz)

Analog Component Input Adaptor

BKM-129X

- Analog component (Y/R-Y/B-Y, RGB) with loop-through (x 1, automatic 75. termination)/EXT SYNC with loop-through BNC (x 1, automatic 75. termination)
- Power consumption: 0.5 W
- Dimensions (W x H x D): 24.7 x 161.4 x 121.8 mm (1 x 6 3/8 x 4 7/8 inches)
- Mass: Approx. 250 g (9 oz)

SDTI-CP/SDI Input Adaptor

BKM-150CP

- SDI input with audio decoding
- SDTI-CP MPEG-2 4:2:2 P@ML decoding
- SDTI-CP/SDI signal input (x 2)/SDTI-CP/SDI signal output with active loop-through (x 2)/decoded analog output (x 2)
- Power consumption: Max. 15 W
- Dimensions (W x H x D): 49.7 x 161.4 x 121.8 mm (2 x6 3/8 x 4 7/8 inches)
- Mass: Approx. 600 g (1 lb 5 oz)

PAL-M Input Adaptor

BKM-126M*

- Analog composite PAL-M with loop-through (input x 2, output x 2)
- Power consumption: 3 W
- Dimensions (W x H x D): 24.7x 161.4 x 121.8 mm (1 x 6 3/8 x 4 7/8 inches)
- Mass: Approx. 270g (9.5 oz)

* For Brazil market only.

Caption Vision Decoder

A Caption Vision Decoder (closed caption) is also available. For details, please contact your nearest Sony office.

* For United States market only.

i.LINK™ (IEEE1394) Input Adaptor

* i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary depending on the software applications, operating system and compatible i.LINK devices.

i is the logo for products that implement i.LINK. All products with an i.LINK connection may not communicate with each other. Please refer to the documentation that comes with any device having an i.LINK connection for information on compatibility operating conditions and proper connection.

External Sync

PVM-L2 Series monitors accept external sync signals, for easy synchronization with other equipment. The external sync can be set to automatically detect the input type and switch to the appropriate settings.

Effective Operational Functions

4:3/16:9 Capability

Pressing a button on the front panel allows users to switch the aspect ratio between 4:3 and 16:9.

Underscan Switch

In Underscan mode, the picture size is reduced and the entire active picture is displayed on the screen. This function allows users to observe picture edges more clearly.

Switchable Color Temperature

The color temperature can be selected from a choice of D65, D93 or user-preset (5000K to 10000K).

Blue-Only Mode

These monitors enable signal noise to be precisely evaluated, and chroma/phase adjustments to be made easily using Blue-Only mode, which displays images with a bluish hue.

Auto/Manual Degaussing

When the power is turned on, the CRT is automatically degaussed. This degaussing can also be initiated by pressing the Manual Degauss button.

Simple Operation

Auto Chroma/Phase Setup

An Auto Chroma/Phase Setup mode facilitates the complex, delicate procedure of monitor adjustment. Using broadcast-standard color bars as a reference, this function automatically calibrates chroma and phase. This proves very convenient in computer-based editing systems, enabling easy alignment of the color reproduction of video output signals.

Simple Operation

On-Screen Menu

Sony PVM-L2 Series monitors provide a variety of window-type on-screen menus for easy monitor adjustment and operation.

Parallel Remote Control/Tally

Parallel Remote Control and Tally can be controlled via a Modular 8-pin connector, and the pin assignments can be set from the On-Screen Menu.

Sub-Control Mode

In this mode, the adjustment range of the contrast, brightness, chroma and phase controls can be shifted. A preferred level can be set for the center-click position of each control, allowing multiple monitors to be set to the same level.

Bias/Gain Control

Bias and Gain controls are provided on the front panel. What's more, it's easy to make fine adjustments to the white balance while still observing the screen using the On-Screen Menu.

AC/DC Operation

As well as operating from an AC power source, the PVM-9L2 can also be powered from a 12 V DC source for use in the field. The monitor can also be operated using an optional BP-L90A, BP-L60A, BP-M50 or BP-M100 battery.

* Supported on PVM-9L2 monitors. The PVM-9L2 is not equipped with a battery charger. To charge batteries, an appropriate battery charger must be used.

Other Features

19-inch EIA-Standard Rack-Mountable

PVM-9L2 monitors can be mounted side by side in a 19-inch EIA-standard rack using the optional MB-520 rack-mounting bracket. Empty spaces can be covered with optional MB-509 Mounting panel. PVM-14L2 monitors can be mounted using the optional MB-502B* and MB-502C** mounting bracket. PVM-20L2 monitors can be mounted using the optional SLR-103A* and SLR-103C** slide-rail kit.

* For the market except Europe. **For Europe market only.

Audio-Monitoring Facility

A speaker (0.8 W, monaural) is built into the monitor for sound monitoring.

Carrying Handle*

The PVM-9L2 can be carried to any location using its integrated carrying handle.

* Supported on PVM-9L2 monitors.

Monitor ENG Kit*

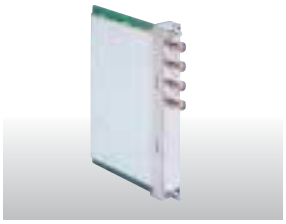
The optional VF-508 ENG Kit for PVM-9L2 monitors contains a monitor hood and cord reel for operational convenience in the field.

* Supported on PVM-9L2 monitors.

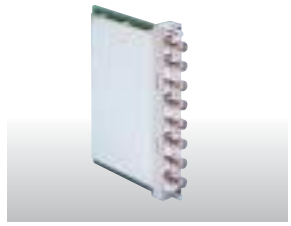
Worldwide power supply

Applies to AC 100 to 240 V (50/60 Hz).

Optional Accessories



BKM-120D
SDI 4:2:2 Input Adaptor



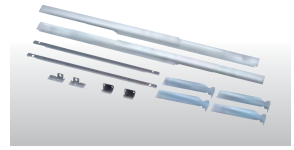
BKM-129X
Analog Component Input Adaptor

BKM-150CP
SDTI-CP / SDI Input Adaptor

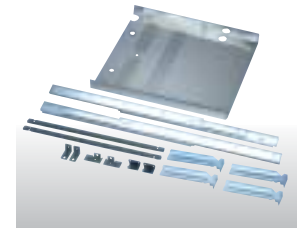
BKM-126M
PAL-M Input Adaptor

TU-1040E*
TV Tuner for PVM-20L2 and PVM-14L2 Monitors
* For PAL area market only.

TU-1041U/J*
TV Tuner for PVM-20L2 and PVM-14L2 Monitors
* For NTSC area market only.

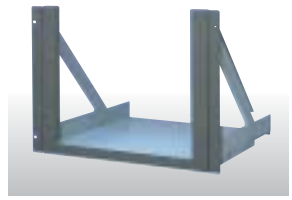


SLR-103A*
Slide Rail Kit for PVM-20L2 Monitors
* For the market except Europe.

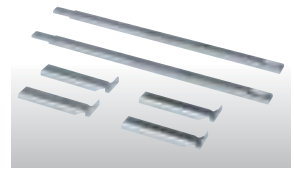


SLR-103C*
Slide Rail Kit (AEP) for the PVM-20L2
* For Europe market only.

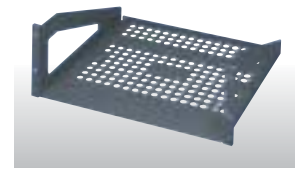
MB-502B*
Rack Mount Bracket for the PVM-14L2
* For the market except Europe.



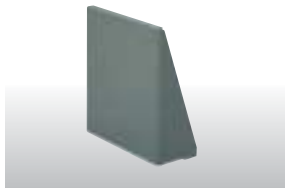
MB-502C*
Rack Mount Bracket(AEP) for the PVM-14L2
* For Europe market only.



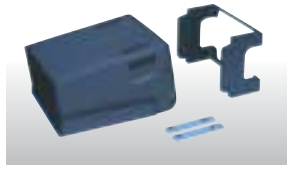
SLR-102
Slide Rail Kit for PVM-14L2 Monitors



MB-520
Rack Mount Bracket for the PVM-9L2



MB-509
Blank Panel for the PVM-9L2



VF-508
Monitor ENG Kit (monitor hood and cord reel) for the PVM-9L2

BP-L60A/L90A
Rechargeable Lithium-ion Battery Pack

BC-L120
Lithium-ion Battery Charger

BP-M50/M100
Rechargeable Nickel Metal Hydride Battery

BC-M50
Battery Charger for BP-L60A/90A and BP-M50/M100

Supplied Accessories

- AC Plug Holder for PVM-20L2 , PVM-14L2 and PVM-9L2 Monitors
- AC Cord (1)
- Operation Manual (1)

Rear Panel

PVM-9L2

PVM-14L2 / 20L2

Front Panel

PVM-14L2 / 20L2

PVM-9L2

Specifications

		PVM-20L2	PVM-14L2	PVM-9L2
General				
CRT	CRT type *	20-inch Trinitron	14-inch Trinitron	9-inch Trinitron
	AG pitch	0.4 mm	0.25 mm	0.5 mm
	Phosphor	P-22		
	Effective picture size (4:3)	385.8 (W) x 290.6 (H) mm, 481.3 (Diagonal) mm	267.5 (W) x 200.6 (H) mm, 340.0 (Diagonal) mm	159.5 (W) x 117.0 (H) mm 194.9 (Diagonal) mm
Resolution (4:3/16:9)		600 TV lines		250 TV lines
Color system		PAL, NTSC		
Aperture correction		0 to 6 dB		
Frequency response		10.0 MHz ($^{0}_{-3}$) dB		6.0 MHz ($^{0}_{-3}$) dB
Synchronization		AFC time constant 1.0 ms		
Scanning frequency		15.734 kHz (NTSC), 15.625 kHz (PAL)		
Normal scan		7% overscan		
Underscan		5% underscan		
Linearity	Horizontal	Less than 5%	Less than 4%	
	Vertical	Less than 5%	Less than 4%	
Convergence	Center	0.5 mm (Typical)	0.4 mm (Typical)	
	Peripheral	0.7 mm (Typical)	0.5 mm (Typical)	
Raster size stability	Horizontal	1.0%		
	Vertical	1.5%		
HV regulation		4.0%	3.5%	3.0%
Color temperature		D65/D93/User adjustable		
Power requirements		AC 100 to 240 V, 50/60 Hz		
Power consumption (Typical/with options)		98 W, 108 W (with BMK-150CP)	75 W, 86 W (with BMK-150CP)	AC:47 W, DC:38 W AC:58 W, DC:48 W (with BMK-150CP)
Dimensions (W x H x D)		Approx. 453 x 463 x 529 mm (17 7/8 x 18 1/4 x 20 7/8 inches)	Approx. 346 x 340 x 430 mm (13 5/8 x 13 1/2 x 17 inches)	Approx. 217 x 218 x 373 mm (8 5/8 x 8 5/8 x 14 3/4 inches)
Mass		Approx. 32.6 kg (72 lb 12 oz)	Approx. 18.0 kg (39 lb 11 oz)	Approx. 8.0 kg (17 lb 10 oz)
Input/Output				
Line A	Composite	Loop-through BNC, 1.0 Vp-p +3 dB/-6 dB, sync negative, automatic 75 Ω termination		
	Y/C**	Loop-through Mini Din 4-pin, automatic 75 Ω termination		
	Y	1.0 Vp-p, sync negative		
	Audio	Phono jack, -5 dBu 47 kΩ or higher		
Line B	Composite	Loop-through BNC, 1.0 Vp-p, sync negative, automatic 75 Ω termination		
	Audio	Phono jack, -5 dBu 47 kΩ or higher		
RGB/Component		Loop-through BNC, automatic 75 Ω termination		–
	G/Y	0.7 Vp-p +3 dB/-6 dB		–
	Sync on G	0.3 Vp-p		–
	B/B-Y	0.7 Vp-p +3 dB/-6 dB		–
	R/R-Y	0.7 Vp-p +3 dB/-6 dB		–
	Audio	Phono jack, -5 dBu 47 kΩ or higher		–
Ext. sync		Loop-through BNC, automatic 75 Ω termination 4.0 Vp-p ± 6 dB, sync negative, usable tri-level sync signal 0.6 Vp-p ± 6 dB		
Option slot		1		
	Audio	Phono jack x 2, -5 dBu 47 kΩ or higher		
Remote	Parallel remote	Modular 8-pin (Assignable)		
Audio output		0.8 W (Distortion: Less than 5%)		
Regulation Compliance		UL-1950, CSA-950, EN 60950, VCCI class A, FCC class A, IC class A, C-Tick, CE (LVD), CE (EMC), JEITA, DHHS, DNHW, CCC, KTL		
Operating conditions	Operating temperature	0 to +35˚ C (+32 to +104˚ F)		
	Storage temperature	-10 to +40˚ C (+14 to +140˚ F)		
	Operating humidity	35 to 85% (No condensation)		
	Strenge humidity	0 to 90%		

* Viewable area, measured diagonally.
** The Y/C input has priority over the Composite input.

Distributed by

All non-metric weights and measures are approximate.
Features and specifications are subject to change without notice.

MK10009V1IW02NOV

Printed in Japan on recycled paper.