

LMD-B240

24-inch cost-effective, lightweight basic grade Full HD LCD monitor for versatile use



Overview

The LMD-B240 23.8-inch LMD-B Series lightweight and compact LCD monitor offers Full HD resolution. The LMD-B Series offers convenient features, functions and the same user-interface design and operability as PVM-A Series OLED and LMD-A Series Premium LCD picture monitors. This consistency between the PVM-A, LMD-A and LMD-B Series makes it easy for users to work with all three monitors and integrate them in the same work environment. The LMD-B240 offers unique SDI and HDMI sync-free side by side configurations, whereby HD, SD, different frame rates, interlace, PsF and progressive pictures can be displayed on the same monitor. The LMD-B Series monitors are a cost-effective and versatile solution for a wide range of professional applications, including DC operation and wall-mounting. The monitor features a user reset function and includes stereo front-mounted speakers and an audio muting function. In addition, the LMD-B240 includes a natural ventilation system meaning no audio disruption from an internal cooling fan, making the monitor highly suitable for video shooting and critical audio operations.

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The LMD- 23.8-inch LCD panel is ideal for a wide variety of applications, from a desk-top use to wall-mounting, arm-mounting and outfield shooting. The monitor can be rack-mounted with a MB-L22 rack mount bracket and is supplied with a LMD-A Series type stand. The Full HD (1920 x 1080) resolution is approximately 200% higher resolution than Wide-XGA (1366 x 768 or 1280 x 768), giving you sharp focus for pixel-by-pixel checking of a Full HD video with no scaling.

The monitor has a robust and stylish sharp-edges chassis. Lighter weight and lower power consumption saves you money as well as space and weight in digital galleries. The monitor is also ideal for stand-alone applications such as basic non-linear editing, audio control room, simple video monitoring or video shooting.

The LMD-B240 inherits its all-in-one design style from the PVM-A and LMD-A series. It has the mandatory interfaces such as SDI, HDMI and composite video with stereo analogue audio. You can monitor the embedded audio signals of an SDI signal on the audio level meters of the screen. 2W+2W front stereo speakers are more powerful

than a monaural speaker or a rear speaker system and you can get a good stereophonic effect from them. It can be powered by both AC and DC with no AC adaptor. Its natural ventilation system ensures there are no distracting cooling fan noise.

With the same operability as the PVM-A and LMD-A Series, you can easily go back and forth when using monitors from the different ranges in one system. You can easily select the best monitor for a function, according to your feature, quality and budget requirements.

LMD-B240 offers vital functions, including markers, WFM/vector, audio level meters, timecode display, camera focus function, side by side, Flip H/V and on-screen tally. The user reset function makes it easy to return the monitor to the default setting very quickly. This is very useful if a user is not familiar with the monitor settings. The LMD-B240 can be also operated in one of 7 languages (Chinese, English, French, Germany, Italian, Japanese and Spanish).

Features

The LMD-B240 offers unique SDI and HDMI sync-free side by side configurations, whereby HD, SD, different frame rates, interlace, PsF and progressive pictures can be displayed on the same monitor. The signal processing of this feature is close to its low latency of a single screen. Focus assist and camera metadata can work with the main picture when using this function.

The LMD-B240 has a low 6.5kg mass (with stand), 6.4kg (monitor only) and 41W (maximum) power consumption.

The I/P conversion system delivers automatically optimised signal processing according to input signals with low-latency (less than 0.5 field). This system helps users to edit and monitor for a live production.

The LMD-B240 monitor is equipped with built-in standard input interfaces: HD/SD-SDI (x2), HDMI (HDCP) input (x1) and composite (x1).

Multiple computer signals can be received via an HDMI/DVI interface; the resolution range is from 640 x 480 to 1680 x 1050 pixels.

An input signal's waveform and vector scope with an SDI-embedded 2-channel audio level meter can be displayed on screen. The waveform of a specified line can also be displayed. In conjunction with the Picture & Picture function, the waveform monitor and vector scope display can monitor two camera signals. In addition, an audio level meter can display the embedded audio signal from the SDI or HDMI input. It can display on screen the ch1 to ch8 or ch9 to ch16.

2W+2W front stereo speakers are more powerful than a monaural speaker or a rear speaker system and you can get a good stereophonic effect from them. You can select audio sources from either embedded audio or analogue audio.

This monitor has an intuitive and appropriate user interface for a video production. You can easily choose an input and a function by a single click. The rotary encoder knob makes it easy to select an item and enter it. The lighted control panel has a good readability in dark. This user interface including OSD menu layout is carefully designed for a time critical operation as either a single unit or multiple units, using a variety of Sony professional monitors in one system.

LMD-B240 monitor offers the same functions and operability as PVM-A and LMD-A Series monitors and shares a consistent front control panel design. This means that these types of monitor can be operated and controlled in the same way.

When multiple users share the same monitor, you need to reset it in a quick operation. User reset function quickly returns the unit to the default settings. Key inhibit protects the required settings of it from any inadvertent operations. For improving speed of the function key configuration, the user can take a short-cut to the settings menu screen by simply holding down one of the Function keys.

The LMD-B240 monitor can control the aperture level of a video signal, and display images on the screen with sharpened edges to help camera focus operation. Further to this, the sharpened edges can be displayed in user-selectable colours (white, red, green, blue, and yellow) for more precise focusing.

LTC and VITC time code can be displayed at the top or bottom of the picture.

The monitor is equipped with a three-colours red, green and yellow on-screen tally function. The position of the tally display can be changed to either the upper or lower section of the screen.

The Flip function turns the reversed image to a normal view, horizontally or vertically.

DC power supply is available in the range of 12V to 17V. The power indicator blinks when the DC power supply is low.

The LMD-B240 is supplied with a LMD-A type stand. It can also be rack mounted with the MB-L22 rack mount bracket.

There is no cooling fan inside, making the monitor suitable for video shooting and critical audio operations.

Specifications

Picture Performance

Panel	a-Si TFT Active Matrix LCD
Picture Size (Diagonal)	604.7 mm (23 7/8 inches)
Effective Picture Size (H x V)	527.04 × 296.46 mm 20 3/4 x 11 3/4 inches

Resolution (H x V)	1920 x 1080 pixels (Full HD)
Aspect	16:9
Pixel Efficiency	99.99%
Colours	Approx. 16.7 million colours
Viewing Angle (Panel Specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)
Normal Scan	0% scan

Input

Composite Input	BNC (x1), 1 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	RJ-45 Modular connector 8-pin (x1) (Pin-assignable)
DC Input	XLR-type 4-pin (male) (x1), DC 12 V to 17 V (output impedance 0.05 Ω or less)

Output

Composite Output	BNC (x1), Loop-through, with 75 Ω automatic terminal function
SDI Output	BNC (x1)*, output signal amplitude: 800 mVp-p ±10%, output impedance: 75 Ω unbalanced *Output from SDI 1 only.
Audio Monitor Output	Stereo mini jack (x1)
Speaker (Built-in)	2.0 W+2.0W (Stereo)
Headphone Output	Stereo mini jack (x1)

General

Power Requirements	AC: 100-240V,0.5-0.3A,50/60Hz DC: 12-17V,3.2-2.0A
Power Consumption	Approx. 41W (max.) Approx. 29W (average power consumption in the default status)
Inrush Current	(1) Maximum possible inrush current at initial switch-on (Voltage changes caused by manual switching): TBA A peak, TBA A r.m.s. (240V AC)

	(2) Inrush current after a mains interruption of five seconds (Voltage changes caused at zero-crossing): TBA A peak, TBA A r.m.s. (240V AC)
Operating Temperature	0°C to 35°C (Recommended: 20°C to 30°C) 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 -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	563.0 x 375.3 x 69.0 mm (without monitor feet) 563.0 x 397.6 x 165.0 (with monitor feet) 22 1/4 x 14 7/8 x 2 3/4 inches (without monitor feet) 22 1/4 x 15 3/4 x 6 1/2 inches (with monitor feet)
Mass	Approx. 6.5 kg (14lb 5oz) Approx. 6.4 kg (14lb) (When the monitor stand is removed)
Accessories supplied	AC power cord (1) AC plug holder (1) Before Using This Unit (1) CD-ROM (1)

Notes

*1 The values for dimensions are approximate.

Related products



PXW-X400

Three 2/3-inch type Exmor CMOS sensors XDCAM weight-balanced advanced shoulder camcorder with HLG option, improved network connectivity and low power consumption



PXW-X500

Three 2/3-inch type PowerHAD FX Full HD CCD sensors XDCAM camcorder with multi-format recordings including XAVC



PXW-X200

Three 1/2-type Exmor™ CMOS Full HD sensor XDCAM camcorder with 17x zoom lens and XAVC recordings



PXW-FS7M2

4K Super 35mm Exmor CMOS sensor XDCAM camera with Variable ND Filter, E-Mount (Lever Lock), 4K/2K RAW and XAVC recording



NEX-FS700R

4K Super 35mm Exmor CMOS sensor NXCAM camcorder with E-Mount lens system and 4K/2K RAW recording options



NEX-EA50M

NXCAM Large Format Sensor camcorder with E-mount lens system and SELP18105G zoom lens



PDW-680

Three 2/3-inch type Exmor CMOS sensors XDCAM HD shoulder camcorder recording full HD / SD



PXW-Z450

4K HDR 2/3-type CMOS sensor shoulder camcorder with advanced network features, low power consumption and optimised weight balance



PXW-FS7

4K Super 35mm Exmor CMOS sensor XDCAM camera with α Mount lens system, 4K/2K RAW and XAVC recording options



NEX-FS700RH

PXW-X160

Three 1/3-inch type Exmor™ CMOS Full HD sensor XDCAM camcorder with 25x zoom lens and XAVC recordings



PXW-X70

1.0 type Exmor R™ CMOS sensor compact XDCAM camcorder with 12x zoom lens recording XAVC, AVCHD and DV



HXR-NX3/1

Three 1/2.8-inch Exmor CMOS sensors Full HD AVCHD camcorder with 35mm full-frame format equivalent Sony G lens and 40x zoom with Clear Image Zoom, with battery pack bundle



PXW-Z150

Compact handy camcorder delivers broadcast quality 4K and Full-HD



PDW-850

Three 2/3-inch Power HAD FX CCD sensors XDCAM HD422 ultimate Professional Disc camcorder with best picture quality and easy-to-share and archive media



HXR-NX100

PXW-X320

Three 1/2-inch type Exmor CMOS sensors XDCAM camcorder with 16x zoom HD lens recording Full HD XAVC 100 Mbps, with wireless options



PXW-X180

Three 1/3-inch type Exmor™ CMOS Full HD sensor XDCAM camcorder with 25x zoom lens and wireless operations, including XAVC recordings



HXC-FB80

Three 2/3-inch Exmor™ CMOS sensor HD colour studio camera



PMW-300K1

Three 1/2-inch Exmor™ CMOS sensors semi-shoulder XDCAM camcorder with interchangeable 14x zoom HD lens system recording XAVC HD 100 Mbps and MPEG HD422 at 50 Mbps



PXW-FS5

Grab and Shoot with handheld Super 35



PXW-Z100

1/2.33-inch type Exmor R CMOS sensor 4K compact XDCAM camcorder recording on XAVC format



HXR-MC2500

1/4-inch Exmor R CMOS sensor HD / SD AVCHD camcorder



HXR-NX3/VG1

Three 1/2.8-inch Exmor CMOS sensors Full HD AVCHD camcorder with 35mm full-frame format equivalent Sony G lens and 40x zoom with Clear Image Zoom High quality ECM-VG1 shot-gun microphone bundled



PMW-300K2

Three 1/2-inch Exmor™ CMOS sensors semi-shoulder XDCAM camcorder with interchangeable 16x zoom HD lens system recording XAVC HD 100 Mbps and MPEG HD422 at 50 Mbps



HXR-NX5R

Three 1/2.8-inch Exmor CMOS sensors Full HD AVCHD / XAVC S camcorder with 40x zoom with Clear Image Zoom and built-in wireless functionality.

4K Super 35mm Exmor CMOS
sensor NXCAM camcorder with
11x Zoom E-Mount lens and
4K/2K RAW recording options

1.0-type Exmor R™ CMOS
Sensor NXCAM camcorder with
maximum 48x zoom lens and
3 independent manual lens
rings recording XAVC S, AVCHD
and DV

Gallery

