SONY

Professional LCD Picture Monitor

LMD-A240
LMD-A220
LMD-A170

Sony's lightweight LCD monitor lineup
From studio to field

Full HD, Excellent Cost:Performance Ratio, Lightweight and Slim

LMD-A240 LMD-A220 LMD-A170

Sony is proud to introduce its lightweight, full HD LMD-A Series monitor lineup with an excellent cost:performance ratio. Models include the LMD-A240 (24″), LMD-A220 (22″), and LMD-A170 (17″).

The series offers full HD resolution, along with a lightweight and compact design. There is more than a 12% to 22% reduction in mass, 30% reduction in depth, and more than 25% reduction in power consumption, compared to Sony's previous models.

The LMD-A Series offers the same user-interface design, convenient features and functions, and operability as PVM-A Series OLED picture monitors. This consistency between the PVM-A and LMD-A Series brings great user benefits when both types of monitor are used in the same network.

Furthermore, LMD-A Series monitors provide versatility for a wide range of user applications both in the studio and in the field: DC operation, VESA mount and yoke-mount holes, and an optional protection kit (LMD-A170 only).

This broad and powerful professional LCD monitor lineup continues to meet the broadest range of application needs for excellent cost:performance picture monitoring.

Full HD, Excellent Cost:Performance Ratio LCD Lineup

The LMD-A240 (24″) incorporates a WUXGA (1920 x 1200) panel and the LMD-A220 and LMD-A170 incorporate a Full HD (1920 x 1080) panel. All LMD-A Series monitors emulate broadcast standards (ITU-R BT.709, EBU, and SMPTE-C).

Lightweight and Compact, with Lower Power Consumption

These monitors offer a design that is uniquely light and compact. Their weight is reduced by 12% to 22%, and depth by more than 30%, compared with predecessor models. Power consumptions for these models is reduced by more than 25%. Users appreciate these convenient, cost-saving qualities.

Optimized Low-latency I/P Conversion

The I/P conversion system delivers automatically optimized 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.

Time code and In-monitor Display (IMD) Function

With an external remote function via Ethernet, image source names and tally information can be displayed on screen. LMD-A Series monitors support the TSL system protocol. The IMD system can display European language text including umlaut and accent marks.

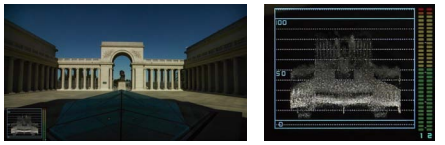
Time code and waveform monitor

Time code, on-screen tally, and 93% area marker

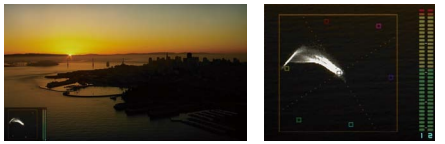
IMD on the LMD-A240 16:10 screen

Waveform Monitor and Vector Scope Display

These features enable users to monitor sources using the internal waveform and vector scope. In addition, LMD-A Series monitors provide some of the same evaluation tools as larger, dedicated equipment. Both the waveform monitor and the vector scope offer zoom functions for very precise signal adjustment (from zero to 20% video level), and both have two-channel audio monitoring.



Waveform monitor



Vector scope

Versatility for a Wide Range of User Applications

These monitors offer a variety of mechanical features to enhance monitor mobility and user convenience in a wide range of applications.

Optional Protection Kit (BKM-PL17 for LMD-A170 only)

This accessory provides an AR-coated protection panel for the 17-inch monitor, along with corner bumpers to safeguard the monitor from scratches and impact. The benefit of this is significant when renting out these monitors – for example, panel damage is reduced and there is a far lower incidence of panel replacement and downtime during rental cycles.

LMD-A170 with protection kit image

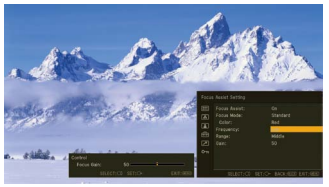
Yoke-mount and VESA-mount Capability

All of these monitors have screw holes on their side bezels for yoke mounting. This type of mounting is convenient when installing a monitor to a camera crane or monitor stand. There are also VESA-mount 100-mm pitch holes on each monitor's rear panel.

LMD-A240 with yoke-mount image
(3rd vendor yoke mount is required)

User-friendly Operability and UI

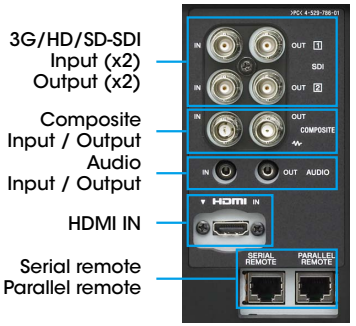
LMD-A Series monitors offer the same functions and operability as PVM-A Series monitors. This means that both types of monitor can be operated and controlled in the same way.



Front control panel: Consistent design between the PVM-A and LMD-A Series.

Input Versatility

LMD-A Series monitors are equipped with built-in standard input interfaces: 3G/HD/SD-SDI (x2), HDMI (HDCP) input (x1), and composite (x1).



Camera Focus Function

This function controls the aperture level of a video signal, and displays images on screen with sharpened edges to help camera focus operation.

Camera focus image

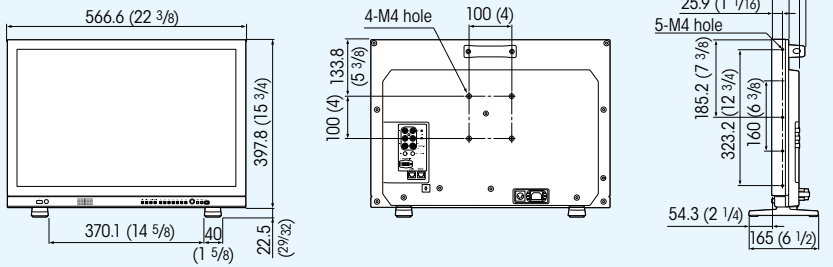
Other Features

- Safety area markers
- Closed caption display (EIA/CEA-608 and EIA/CEA-708, SDI only)
- 8-channel audio level meter display
- External remote control function
- Computer signal input capability via HDMI input

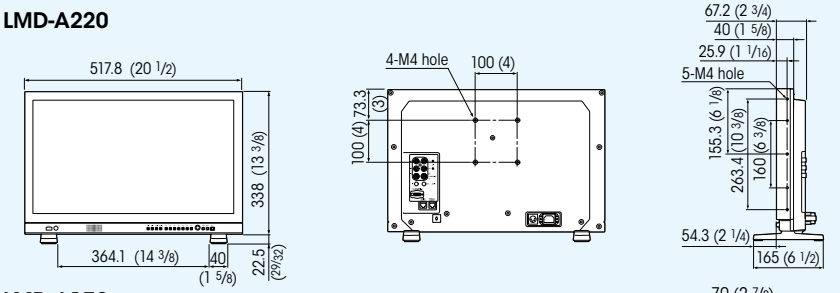
Dimensions

Unit: mm (inches)

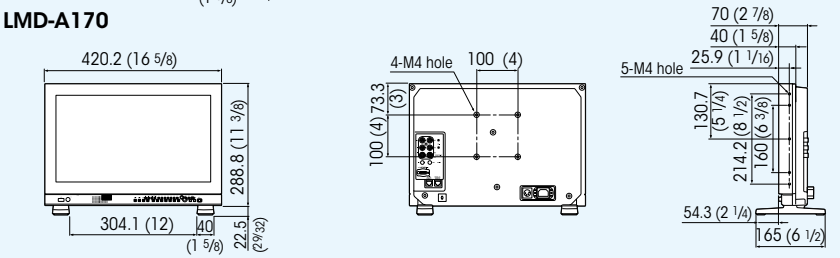
LMD-A240



LMD-A220



LMD-A170



Specifications

	LMD-A240	LMD-A220	LMD-A170	LMD-941W
Picture Performance				
Panel	a-Si TFT Active Matrix LCD			
Picture size (diagonal)	611.3 mm 24 1/8 inches	546.1 mm 21 1/2 inches	419.6 mm 16 5/8 inches	228.0 mm 9 inches
Effective picture size (H x V)	518.4 x 324.0 mm 20 1/2 x 12 7/8 inches	476.1 x 267.8 mm 18 3/4 x 10 5/8 inches	365.8 x 205.7 mm 14 1/2 x 8 1/8 inches	198.7 x 111.8 mm 7 7/8 x 4 1/2 inches
Resolution (H x V)	1920 x 1200 pixels (WUXGA)	1920 x 1080 pixels (Full HD)		
Aspect	16:10	16:9		
Colours	Approx. 1,073 million colours	Approx. 16.7 million colours		
Viewing angle	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)			
Input				
Composite	BNC (x1), 1.0 Vp-p ±3 dB sync negative			
SDI	BNC (x2)			
HDMI	HDMI (x1) (HDCP correspondence)			
Audio	Stereo mini jack (x1), -5 dBu 47 kilohms or higher			
Parallel remote	RJ-45 Modular connector 8-pin (x1)			
Serial remote	RJ-45 Modular connector (x1) (Ethernet, 10BASE-T/100BASE-TX)			
DC in	XLR-type 4-pin (male) (x1) DC 12 V to 17 V (output impedance 0.05 Ω or less)			XLR-type 4-pin (male) (x1) DC 12 V (output impedance 0.05 ohms or less)
Output				
Composite	BNC (x1), loop-through, with 75 ohms automatic terminal function			
SDI	BNC (x2), Output signal amplitude: 800 mVp-p ±10%, Output impedance: 75 Ω unbalanced			BNC (x1), Output signal amplitude: 800 mVp-p ±10%, Output impedance: 75 ohms unbalanced
Audio monitor out	Stereo mini jack (x1)			
Speaker (built-in)	1.0 W (monaural)			0.5 W (monaural)
Headphones output	Stereo mini jack (x1)			
General				
Power requirements	AC 100 V to 240 V, 0.5 A to 0.2 A, 50/60 Hz DC 12 V to 17 V, 3.6 A to 2.6 A	AC 100 V to 240 V, 0.5 A to 0.2 A, 50/60 Hz DC 12 V to 17 V, 3.4 A to 2.4 A	AC 100 V to 240 V, 0.5 A to 0.2 A, 50/60 Hz DC 12 V to 17 V, 3.6 A to 2.5 A	AC 100 V to 240 V, 0.7 A to 0.4 A, 50/60 Hz DC 12 V, 2.5 A
Power consumption	Approx. 51 W (max.) Approx. 45 W (average power consumption in the default sattus)	Approx. 47 W (max.) Approx. 43 W (average power consumption in the default sattus)	Approx. 49 W (max.) Approx. 42 W (average power consumption in the default sattus)	Approx. 36 W (max.)
Mass	7.6 kg 16 lb 12 oz (with monitor feet)	5.4 kg 11 lb 14 oz (with monitor feet)	4.9 kg 10 lb 13 oz (with monitor feet)	2.0 kg 4 lb 6.5 oz 2.6 kg 5 lb 12 oz (when AC adaptor is installed)
Supplied accessories	AC power cord (1), AC plug holder (1), Before Using This Unit (1), CD-ROM (1)	AC power cord (1), AC plug holder (1), Handle (1) (including 4 screws), Before Using This Unit (1), CD-ROM (1)		AC power cord (1), AC adaptor (1), AC plug holder (1), Handle (1), Arm mount bracket (1) (including 4 screws), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1)

Options

BKM-PL17
Protection kit (LMD-A170)

MB-L22
Mounting bracket (LMD-A220)

MB-L17
Mounting bracket (LMD-A170)

SU-561
Monitor stand

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