

LMD-1541W

15-inch high grade LCD monitor



Overview

Compact, slim bezel design for flexible installation

The compact LMD-1541W has a slim, robust aluminium bezel and is specifically designed to suit a monitor-wall installation in studios and outside broadcast (OB) vans. It is also ideal for a wide variety of professional video and industrial image-monitoring applications where critical picture quality and professional features are required.

The 15.3-inch* WXGA (1280 x 768 pixels) high performance LCD panel reproduces lifelike images and stunning colours with a wide viewing angle. ChromaTRU™ colour matching technology helps ensure display consistency - ideal for multi-monitor systems. The LMD-1541W also features built-in SDI (3G/HD/SD), composite, and HDMI interfaces for operational versatility.

Features

Superb Picture Performance and Colour Consistency

The 15.3-inch* WXGA (1280 x 768 pixels) resolution high-performance LCD panel reproduces lifelike precise images and accurate colour. Sony's unique ChromaTRU™ colour matching technology and 10-bit signal processing delivers a stunning smooth grey scale, emulating the colours and gammas of

broadcast-standard CRT monitors. Users can select the required colour space within this gamut.

In addition, ChromaTRU™ technology provides these monitors with colour consistency essential for a multi-monitor system, and offers the best solution for a monitor-wall installation.

* 388.2 mm, viewing area measured diagonally.

Extremely Wide Viewing Angle

IPS panel technology ensures the LMD-1541W offers exceptional horizontal and vertical viewing angles - ideal for group viewing.

Compact Design for Monitor-Wall Installation

The LMD-1541W has a compact body with a lightweight, robust aluminium slim bezel - making it an ideal choice for monitor-wall installation, both in studio sub-control rooms and OB vans.

Desktop Editing and Office Viewing

The LMD-1541W can be used as a desktop monitor both for editing and office viewing with supplied monitor feet. There is also an optional SU-561 monitor stand which provides a height and tilt adjustment feature.

Ideal for CRT Monitor Replacement

The LMD-1541W and the PVM-14L2, Sony's most popular 14-inch 4:3 aspect CRT monitor, share almost the same viewable area height. The body of the LMD-1541W is 74.5 mm shorter in height and only 27.2 mm wider than the PVM-14L2 body. And with its space-saving design, the LMD-1541W can be installed effectively in small spaces.

Built-in Input Versatility

The LMD-1541W has built-in standard input interfaces: two SDI (3G/HD/SD-SDI), one composite, and one HDMI input.

Easy-to-use Control Panel

A rotary-type switch and seven function-assignable buttons allow users speedy and intuitive operation, even in dark environments thanks to LED indicators (which can be switched on/off).

In-monitor Display (IMD) Function for Source Monitoring

The LMD-1541W supports the TSL UMD protocol and can display on screen two tally lamps and dynamic text information received via Ethernet. Up to 16 unicode characters* can be displayed. IMD text can be positioned at the top or bottom of the screen. Both the text colour and the tally lamp colour are separately selectable either in a commanded colour or in one of eight preinstalled colours.

* English alphabets, numbers, symbolic codes, and Japanese letters.

Waveform Monitor, Audio Level Meter*, and Time Code Display

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. A time code superimposed on SDI signals can be displayed on screen. Users can select either LTC or VITC.

* The Audio Level Meter function works only when receiving SDI-embedded audio signals.

External Remote Control Function

The LMD-1541W has an external remote control capability for input/output signal selection and adjustment of various items via Ethernet (10BASE-T/100BASE-TX) connection. Up to 32 monitors and up to four control units can be connected via Ethernet and controlled remotely.

A Variety of Marker Settings

The LMD-1541W can display a centre marker, aspect markers, and safety zone markers.

Scan Mode Selection

Scan size can be selected from normal scan (0%), over scan (5%), full scan, and native scan modes.* The aspect ratio can be switched between 16:9 and 4:3 according to the input signal.
*Full Scan and Native Scan modes work on specific signal formats.

Picture Calibration

Auto White Balance Calibration provides simple adjustment white balance in combination with a PC and the commercially available calibration tool (X-Rite i1Pro series).

Specifications

Picture Performance

Panel	a-Si TFT Active Matrix LCD
Picture Size (Diagonal)	388.6 mm 15 3/8 inches
Effective Picture Size (H x V)	334.1 x 200.5 mm 13 1/4 x 8 inches
Resolution (H x V)	1280 x 768 pixels (WXGA)
Aspect	15:9
Pixel Efficiency	0.9999
Backlight	CCFL

Colors	Approx.16.7 million colors
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

Input

Composite Input	BNC (x1), 1 Vp-p \pm 3dB, sync negative
SDI Input	BNC (x2)
HDMI Input	HDMI (x1) (HDCP correspondence)
Audio Input	Stereo mini jack (x1), -5 dBu 47 k Ω or higher
Parallel Remote	Modular connector 8-pin (x1) (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), Loop-through, with 75 Ω automatic terminal function
SDI Output	BNC (x1), output signal amplitude: 800 mVp-p \pm 10%, output impedance: 75 Ω unbalanced
Audio Monitor Output	Stereo mini jack (x1)
Speaker (Built-in) Output	0.5 W (Monaural)
Headphone Output	Stereo mini jack (x1)

General

Power Requirements	100 V to 240 V AC, 0.8 A to 0.4 A, 50/60 Hz 12 V DC, 3.4 A
Power Consumption	Approx. 50 W (max.)
Inrush Current	(1) Maximum possible inrush current at initial switch-on (Voltage changes caused by manual switching): 60 A peak, 0.3 A r.m.s. (240V AC) (2) Inrush current after a mains interruption of five seconds (Voltage changes

	caused at zero-crossing): 48 A peak, 0.2 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
	373.2 x 265.5 x 70.4 mm 373.2 x 283.5 x 171.4 (with supplied monitor feet) 373.2 x 423.9 x 269.9 mm (with SU-561 optional stand) 373.2 x 319.0 x 264.5 mm (with SU-562 optional

Dimensions (W x H x D) [*1]

stand)
 14 3/4 x 10 1/2 x 2 7/8
 inches
 14 3/4 11 1/4 x 6 3/4 inches
 (with supplied monitor feet)
 14 3/4 x 16 3/4 x 10 3/4
 inches (with SU-561
 optional stand)
 14 3/4 x 12 5/8 x 10 1/2
 inches (with SU-562
 optional stand)

Mass

Approx. 5.1 kg (without a
 monitor stand)
 Approx. 11 lb 4.2 oz
 (without a monitor stand)
 Approx. 5.3 kg (with
 supplied monitor feet)
 Approx. 11 lb 11 oz (with
 supplied feet)
 Approx. 6.8 kg (with monitor
 stand SU-562)
 Approx. 14 lb 16 oz (with
 monitor stand SU-562)
 Approx. 7.2 kg (with monitor
 stand SU-561)
 Approx. 15 lb 14 oz (with
 monitor stand SU-561)

AC power cord (1)

Supplied Accessories	AC plug holder (1) Monitor foot (2) (including 6 screws) Operating Instructions (1) CD-ROM (1) Using the CD-ROM Manual (1)
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Optional Accessories	MB-534 Mounting Bracket SU-561 Monitor Stand SU-562 Monitor Stand
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Notes

Note	[*1] The values for dimensions are approximate.
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Environmental notice for customers in the USA	Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see www.sony.com/mercury for additional information.
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Gallery

