

LMD-2341W

23-inch high grade LCD monitor



Overview

Compact, slim bezel design for flexible installation

The compact LMD-2341W 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 23-inch* full-HD (1920 x 1080 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-2341W also features built-in SDI (3G/HD/SD), composite, and HDMI interfaces for operational versatility.

Features

Superb Picture Performance and Colour Consistency

The 23-inch full-HD resolution (1920 x 1080 pixels) 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.

Extremely wide Viewing Angle

IPS panel technology ensures the LMD-2341W offers exceptional horizontal and vertical viewing angles - ideal for group viewing.

Compact Design for Monitor-wall Installation

The LMD-2341W 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-2341W 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.

Built-in Input Versatility

The LMD-2341W 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). The control panel of the LMD-2341W can be covered with a supplied control panel cover to simplify its appearance on a monitor wall.

In-monitor Display (IMD) Function for source monitoring

The LMD-2341W 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-2341W 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.

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)	584.2 mm 23 inches
Effective Picture Size (H x V)	509.1 x 286.4 mm 20 1/8 x 11 3/8 inches
Resolution (H x V)	1920 x 1080 pixels (Full HD)
Aspect	16:9
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 ±3dB, sync
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	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), 24V 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	1.0 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
24 V DC, 2.4 A

Power Consumption Approx. 70 W (max.)

Inrush Current (1) Maximum possible
inrush current at initial
switch-on (Voltage changes
caused by manual
switching): 58 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): 46
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
Dimensions (W x H x D) [*1]	549.5 x 352.5 x 100.3 mm
	549.5 x 370.5 x 171.4 mm (with supplied monitor feet)
	549.5 x 467.4 x 269.9 mm (with SU-561 optional stand)
	21 3/4 x 14 x 4 inches 21 3/4 x 14 5/8 x 6 3/4 inches (with supplied monitor feet) 21 3/4 x 18 1/2 x 10 3/4 inches (with SU-561 optional stand)
	Approx. 9.2 kg (without a monitor stand) Approx. 20 lb 4.5 oz (without a monitor stand) Approx. 9.4 kg (with

Mass	<p>supplied monitor feet) Approx. 20 lb 12 oz (with supplied monitor feet) Approx. 11.3 kg (with monitor stand SU-561) Approx. 24 lb 15 oz (with monitor stand SU-561)</p>
Supplied Accessories	<p>AC power cord (1) AC plug holder (1) Control panel cover (1) (including 3 screws) Monitor foot (2) (including 6 screws) Operating Instructions (1) CD-ROM (1) Using the CD-ROM Manual (1)</p>
Optional Accessories	<p>SU-561 Monitor Stand</p>

Notes

Note	<p>[*1] The values for dimensions are approximate.</p> <p>Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For</p>
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Environmental notice
for customers in the
USA

disposal or recycling information,
please contact your local
authorities or see
www.sony.com/mercury for
additional information. No Hg
(mercury) contained due to
change LED backlight from Serial
Number 3300001.

Gallery

