

## 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 $\Omega$ 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 $\Omega$ or less)

## Output

Composite Output	BNC (x1), Loop-through, with 75 $\Omega$ automatic terminal function
SDI Output	BNC (x1), output signal amplitude: 800 mVp-p $\pm$ 10%, output impedance: 75 $\Omega$ unbalanced
Audio Monitor Output	Stereo mini jack (x1)
Speaker (Built-in) Output	1.0 W (Monaural)

Headphone Output      Stereo mini jack (x1)

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## 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

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Power Consumption      Approx. 70 W (max.)

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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)

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Operating Temperature      0°C to 35°C  
(Recommended: 20°C to  
30°C)  
32°F to 95°F  
(Recommended: 68°F to  
86°F)

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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 [\*1] The values for dimensions are approximate.

Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For



Environmental notice  
for customers in the  
USA

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

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## Gallery

