

## 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<br>15 3/8 inches             |
| Effective Picture Size (H x V) | 334.1 x 200.5 mm<br>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)<br>(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 $\Omega$ or higher                          |
| Parallel Remote     | Modular connector 8-pin (x1)<br>(Pin-assignable)                               |
| Serial Remote (LAN) | RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)                                     |
| DC Input            | XLR-type 4-pin (male) (x1), 12V DC<br>(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 | 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<br>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)<br>(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<br>(Recommended: 20°C to 30°C)<br>32°F to 95°F<br>(Recommended: 68°F to 86°F)                                                                                                |
| Operating Humidity                   | 30% to 85% (no condensation)                                                                                                                                                             |
| Storage/Transport Temperature        | -20°C to +60°C<br>-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<br>373.2 x 283.5 x 171.4 (with supplied monitor feet)<br>373.2 x 423.9 x 269.9 mm (with SU-561 optional stand)<br>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)<br>Monitor foot (2) (including 6 screws)<br>Operating Instructions (1)<br>CD-ROM (1)<br>Using the CD-ROM Manual (1) |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| Optional Accessories | MB-534 Mounting Bracket<br>SU-561 Monitor Stand<br>SU-562 Monitor Stand |
|----------------------|-------------------------------------------------------------------------|

## Notes

|      |                                                 |
|------|-------------------------------------------------|
| Note | [*1] The values for dimensions are approximate. |
|------|-------------------------------------------------|

|                                               |                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.sony.com/mercury">www.sony.com/mercury</a> for additional information. |
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## Gallery

