

# LMD-2110MD

Medical LCD Monitor

# SONY

Sony introduces a new medical LCD monitor – the LMD-2110MD – which complies with medical safety standards and EMC standards while maintaining an excellent cost: performance ratio.

Equipped with a 21.5-inch\* full-HD (1920 x 1080 pixels) high-resolution LCD panel, the LMD-2110MD delivers crisp high-definition (HD) images. Combined with a 10-bit digital signal processing system, this monitor offers stunning and smooth grayscale.

The LMD-2110MD is equipped with conventional versatile analog input interfaces and an HDMI input, which can accept HD signals up to 1080/60p. In addition, this monitor can input HD/SD-SDI signals using the optional BKM-341HS input adaptor.

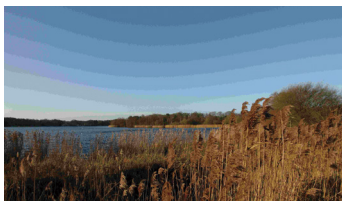
These features and benefits make this monitor a perfect cost-effective choice for a wide range of applications in healthcare settings.

\* 547 mm viewing area, measured diagonally.



## 21.5-inch Full-HD (1920 x 1080 pixels) Resolution, 10-bit Signal Processing

Incorporating precisely manufactured high-purity RGB color filters and a high-speed response LCD panel, the LMD-2110MD delivers accurate color reproduction and stunningly lifelike crisp images. All SD and HD input signals are converted into 10-bit digital signals without any picture deterioration via full digital imaging circuitry. This 10-bit signal processing achieves significant signal-to-noise ratio (SNR) improvement and smooth grayscale compared to 8-bit data processing.



8-bit (256-level) image



10-bit (1024-level) image

\* Simulated images

## Wide Range of Standard Input Interfaces

The LMD-2110MD is equipped with a full range of analog inputs including a composite, Y/C (S-Video), analog component, and RGB. Also included is an HDMI, which can accept HD digital signals up to 1080/50p and 60p. DVI signals can be input via the HDMI input connector using a conversion cable.

## Optional HD-SDI Interface

In addition, this monitor supports HD-SDI input with an optional BKM-341HS HD/SD-SDI input adaptor. This input versatility allows the LMD-2110MD monitor to flexibly connect to HD-SDI digital environments.



Connector panel with the optional BKM-341HS

## Compact Design – Portable and Flexible

Unlike CRT monitors, terrestrial magnetic fields have no influence on LCD monitors. This means the LMD-2110MD can be carried and used in any position and location. With the standard monitor stand, users can set the monitor anywhere and use it immediately. The LMD-2110MD provides VESA™ - standard mounting holes with 100 mm pitch, and is flexible enough to install with a VESA arm and on a medical cart.



VESA mounting holes



Arm-installation image

## Other Features

- Conventional functions, including Contrast, Brightness, Chroma, Phase control, and Color temperature setting
- Menu screen with eight selectable languages
- Scan setting (Normal (0%), Over (5%), Full scan)
- Standard monitor stand with tilt function
- External parallel remote control

## Specifications

|                                           | LMD-2110MD                                                                                                                                           |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Picture Performance</b>                |                                                                                                                                                      |
| Type                                      | a-Si TFT Active Matrix LCD                                                                                                                           |
| Resolution                                | 1920 x 1080 pixels (Full HD)                                                                                                                         |
| Effective picture size (H x W) (diagonal) | 477 x 268 mm (18 7/8 x 10 5/8 inches), 547 mm (21 5/8 inches)                                                                                        |
| Aspect                                    | 16:9                                                                                                                                                 |
| Colors                                    | Approx. 16.7 million colors                                                                                                                          |
| Viewing angle (LCD panel specification)   | 170°/160° (typical) (horizontal/vertical contrast > 10:1)                                                                                            |
| <b>Input</b>                              |                                                                                                                                                      |
| Composite                                 | BNC (x1), 1.0 Vp-p ±3 dB sync negative                                                                                                               |
| Y/C                                       | Mini DIN 4-pin (x1)<br>Y: 1.0 Vp-p ±3 dB sync negative,<br>C: 0.286 Vp-p ±3 dB (NTSC burst signal level),<br>0.3 Vp-p ±3 dB (PAL burst signal level) |
| RGB, Component                            | BNC (x3)<br>RGB: 0.7 Vp-p ±3 dB (Sync On Green, 0.3 Vp-p sync negative)<br>Component: 0.7 Vp-p ±3 dB<br>(75% chrominance standard color bar signal)  |
| HDMI                                      | HDMI (x1)                                                                                                                                            |
| Audio                                     | Phono jack (x2), -5 dBu 47 kilohms or higher<br>OPTION AUDIO IN: Phono jack (x1), -5 dBu 47 kilohms or higher                                        |
| External sync                             | BNC (x1)<br>0.3 Vp-p to 4.0 Vp-p ±bipolarity ternary or negative polarity binary                                                                     |
| Option in connector                       | D-sub 9-pin (x1), female                                                                                                                             |
| Parallel remote                           | Modular connector 8-pin (x1) (pin-assignable)                                                                                                        |
| <b>Output</b>                             |                                                                                                                                                      |
| Composite                                 | BNC (x1), loop-through, with 75 ohms automatic termination                                                                                           |
| Y/C                                       | Mini DIN 4-pin (x1), loop-through, with 75 ohms automatic termination                                                                                |
| RGB, Component                            | BNC (x3), loop-through, with 75 ohms automatic termination                                                                                           |
| External sync                             | BNC (x1), loop-through, with 75 ohms automatic termination                                                                                           |
| Audio monitor out                         | Phono jack (x2), loop-through                                                                                                                        |
| Speaker (built-in)                        | 0.5 W (mono)                                                                                                                                         |
| <b>General</b>                            |                                                                                                                                                      |
| Power requirements                        | AC 100 V to 240 V, 50/60 Hz                                                                                                                          |
| Power consumption                         | Maximum: approx. 69 W, 1.3 A to 0.6 A                                                                                                                |
| Operating temperature                     | 0°C to 35°C (32°F to 95°F)<br>Recommended: 20°C to 30°C (68°F to 86°F)                                                                               |
| Operating humidity                        | 30% to 85% (no condensation)                                                                                                                         |
| Storage and transport temperature         | -20°C to +60°C (-4°F to +140°F)                                                                                                                      |
| Storage and transport humidity            | 0% to 90%                                                                                                                                            |
| Operating, storage and transport pressure | 700 hPa to 1060 hPa                                                                                                                                  |
| Dimensions*1 (W x H x D) (with stand)     | 515 x 403 x 264 mm (20 3/8 x 15 7/8 x 10 1/2 inches)                                                                                                 |
| Dimensions*1 (W x H x D) (without stand)  | 515 x 355 x 86 mm (20 3/8 x 14 x 3 1/2 inches)                                                                                                       |
| Mass                                      | 8.6 kg (18 lb 15 oz)                                                                                                                                 |
| Mass (without stand)                      | 6.9 kg (14 lb 19 oz)                                                                                                                                 |
| Supplied accessories                      | AC power cord (1), AC plug holder (2), Before Using This Unit (1), CD-ROM (including the Instructions for Use) (1), Service Contact List (1)         |

\*1 The values for dimensions are approximate.

This product is distributed to US and EU as a medical device. It satisfies product safety standards (e.g. IEC 60601-1).  
For more details, please contact your nearest Sony sales office or an authorized dealer.

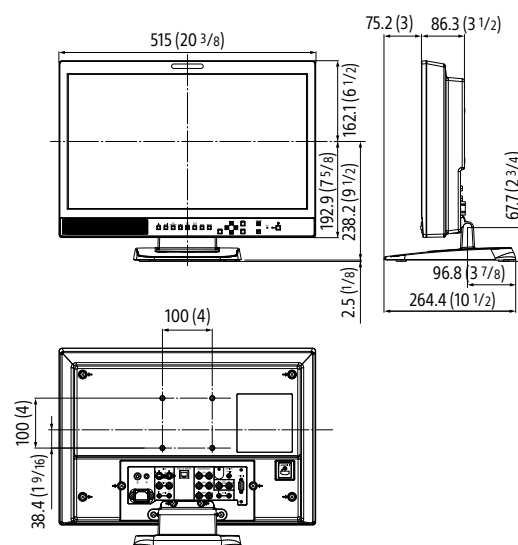
## Optional Accessory



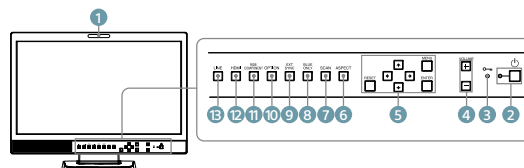
**BKM-341HS**  
HD/SD-SDI input adaptor

## Dimensions

Unit: mm (inches)

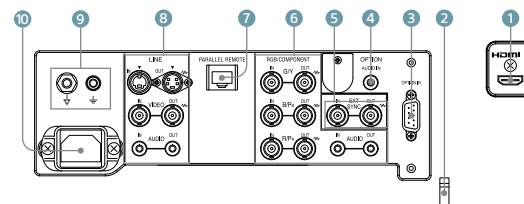


## Front Panel



- 1 Tally lamp 2 Standby switch and indicator
- 3 KEY INHIBIT indicator 4 VOLUME buttons
- 5 Menu operation buttons 6 ASPECT select button
- 7 SCAN select button 8 BLUE ONLY button
- 9 EXT SYNC (external sync) button 10 OPTION button
- 11 RGB/COMPONENT button 12 HDMI button 13 LINE

## Connector Panel



- 1 HDMI IN connector 2 HDMI cable holder
- 3 OPTION In connector 4 OPTION AUDIO In (Phono jack)
- 5 EXT SYNC In/Out (external sync) (BNC)
- 6 RGB/COMPONENT (BNC), Audio (Phono jack)
- 7 PARALLEL REMOTE (modular connector)
- 8 LINE [composite (BNC), Y/C (Mini DIN 4-pin), Audio (Phono jack)]
- 9 EARTH connectors 10 AC In

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