

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 | |
|---|--|
| Picture Performance | |
| 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) |
| Input | |
| Composite | BNC (x1), 1.0 Vp-p ±3 dB sync negative |
| Y/C | Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±3 dB sync negative, C: 0.286 Vp-p ±3 dB (NTSC burst signal level), 0.3 Vp-p ±3 dB (PAL burst signal level) |
| RGB, Component | BNC (x3) RGB: 0.7 Vp-p ±3 dB (Sync On Green, 0.3 Vp-p sync negative) Component: 0.7 Vp-p ±3 dB (75% chrominance standard color bar signal) |
| HDMI | HDMI (x1) |
| Audio | Phono jack (x2), -5 dBu 47 kilohms or higher OPTION AUDIO IN: Phono jack (x1), -5 dBu 47 kilohms or higher |
| External sync | BNC (x1) 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) |
| Output | |
| 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) |
| General | |
| Power requirements | AC 100 V to 240 V, 50/60 Hz |
| Power consumption | Maximum: approx. 60 W, 1.0 A to 0.5 A |
| Operating temperature | 0°C to 35°C (32°F to 95°F) 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.

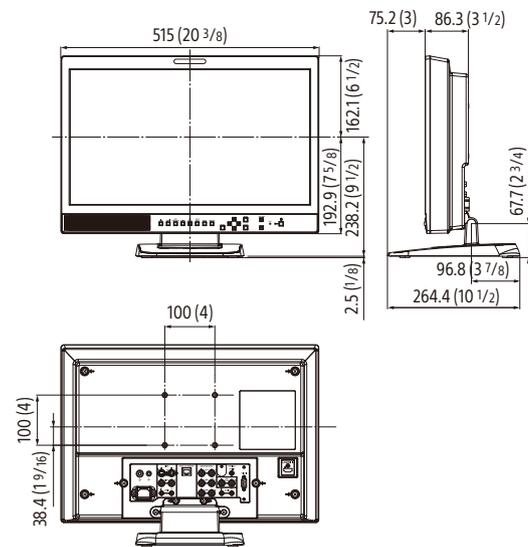
Optional Accessory



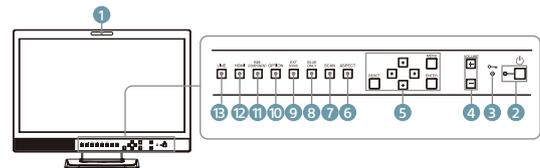
BKM-341HS
HD/SD-SDI input adaptor

Dimensions

Unit: mm (inches)

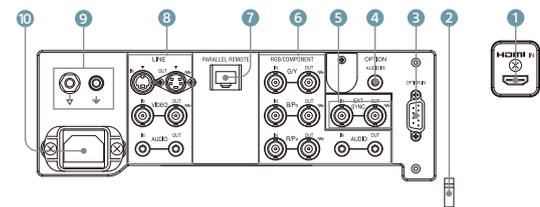


Front Panel



- 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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