LMD-X3200MD
32-inch 4K 2D LCD monitor
High-Performance, Sleek and User-Friendly 4K UHD 32-Inch Medical Monitor

The Sony LMD-X3200MD 32-inch medical grade LCD monitor can display very high quality 4K Ultra HD color video images. Its ergonomic design is optimized for environments such as hospital operating rooms, surgical centers, and clinics.

Superb Picture Quality

4K Ultra HD Resolution

4K resolution on a 32-inch (3840 x 2160) 16:9 screen offers high picture quality.

Wide Color Gamut

The LCD panel and signal processing technology provide a wide color gamut. This complies with the ITU-R Recommendation BT.2020 with a wider color gamut than the BT.709 color gamut, which allows better color reproduction and realistic visualization.

High Dynamic Range (HDR) Gamma Support

HDR technology enables images to be produced with a wider range of brightness levels, greater contrast, and rich colors. When receiving HLG (Hybrid Log-Gamma) signals from an HLG-compatible imaging system, you simply select HLG in monitor gamma setting mode; the monitor can then display HDR images.

Anti-Reflection Structure

The LMD-X3200MD is designed to minimize reflected glare in brightly lit ORs. The panel structure achieves clear, high-contrast images by controlling reflection and minimizing light dispersion in the LCD panel. This lets you use the monitor under various lighting conditions and avoids constantly adjusting of monitors in the OR to remove annoying reflections from surgical lights.

Advanced Features

Advanced Image Multiple Enhancer (A.I.M.E.™) Technology

Sony-unique A.I.M.E. technology enhances the displayed images by adjusting the color, contrast, and visibility of the dark area for more comfortable viewing. You can set each parameter directly via the button on the front panel and identify its status easily with the icon shown on the display during A.I.M.E. ON.

Selectable Modes

- Structure Enhancement (Six levels)
  - Improves recognition of the object’s outline
  - Objects can be seen more clearly with increased sharpness
- Color Enhancement (Eight levels)
  - Color tone differences can be manipulated to see objects more clearly
- Shadow Enhancement (Six levels)
  - Improves visibility in dark areas to see more details

CLONE Output

The clone-output connector enables you to output the same image as the displayed image, such as A.I.M.E., picture-in-picture images, and more. This allows you to easily record the same content as you are viewing; this is particularly useful in educational applications. Also the resolution of the clone-output can be selected from 4K or HD depending on how you are using it.
**Auto Input Select Mode**
If the main input signal is accidentally interrupted, the monitor’s input will switch automatically to the second port.

**Simple Remote Control via Stereo Mini**
This allows you to use the foot switch via the stereo mini jack to switch the most frequently used menus such as A.I.M.E. ON/OFF, Port A/B input select, PIP/POP, and flip pattern. This enables you to switch menus even if you are away from the monitor as you do not have to touch the monitor control panel.

**Variety of Display Modes**
The LMD-X3200MD can display images from multiple sources quickly and easily from the menu in a variety of display modes - side-by-side, picture-in-picture (PIP), and picture-out-picture (POP). Also flip patterns such as flip rotation or off can be selected easily by pressing buttons.

**Easy to Install & Use**

**Installation-Friendly Cabling**
All the connectors face downwards, allowing for easy and organized cable connection. There are three cable access points to enable for multiple installation settings. The small cable cover is useful when the monitor is attached to a monitor arm. The medium-sized cable cover is specifically for the 12G-SDI input/output connector. It is useful especially for through-out connection to a second monitor. You can connect the cable without removing the large cable cover which protects all the other connectors to allow for neat and easy-to-clean installations. These features mean you can simplify the cabling for all your various installation needs.

**Flat Surface Design for Better Cleaning**
The LMD-X3200MD offers an edge-to-edge flush front surface. This design allows you to easily wipe liquids and gels off the LCD panel, control buttons, and also the rear cover, ensuring a high standard of disinfection and cleanliness.

**Flexible AC Powering Options**
Installation is even more flexible with a choice of direct AC in or AC adapter power options (the AC-300MD AC adapter is sold separately).

**User-Friendly Control Panel and Wide Range of Connectors**
Various input/output connectors such as a 12G-SDI and display port are available to meet a wide variety of user needs. Operation is simplified by the intuitive, easy-to-use control panel on the front of the unit. LED backlighting highlights only active control buttons and guides the user, especially in dark environments. Custom buttons can be assigned to commonly used functions.
Specifications

Panel
TFT Active Matrix LCD

Picture Size (Diagonal)
800.757 mm (31 5/8 inches)

Effective Picture Size (H x V)
697.92 x 392.58 mm (27 1/2 x 15 1/2 inches)

Pixel pitch
0.182 x 0.182 mm (0.007 x 0.007 inches)

Resolution (H x V)
3,840 x 2,160 pixels

Aspect
16:9

Pixel Efficiency
99.99%

Backlight
LED

Panel Technology
LCD with IPS

Luminance (Panel Specification)
500 cd/m² (typical)

Contrast Ratio
1000:1

Colors
Approx. 1.07 billion colors

Viewing Angle (Panel Specification)
89°/89°/89°/89° (typical) (up/down/left/right, contrast > 10:1)

Gamma
1.8, 2.0, 2.2, 2.4, 2.6, DICOM, HLG

Input

HDMI Input
HDMI connector (x1)

DVI-D Input
DVI-D connector (x1)

SDI Input
3G-SDI input connector BNC type (x1)
12G-SDI input connector BNC type (x1)

Display Port
Display Port connector (x1)

Serial Remote (LAN)
D-sub 9-pin (RS-232C) (x1)
RJ-45 modular connector (ETHERNET) (x1)

Remote
Stereo mini jack (x1)

AC input
AC input connector (x1)
100 V to 240 V, 50/60 Hz

DC Input
DC input connector (x1)
DC 26 V

Output

SDI Output
3G-SDI output connector BNC type (x1)
12G-SDI output connector BNC type (x1)

CLONE Output
CLONE output connector BNC type (x1)

DC 5 V Output
Round-type 3-pin female (x1), up to 2 A

DC 12 V Output
Round-type 4-pin female (x1), up to 2.5 A

General

Power Requirements
AC IN: 100 V - 240 V, 50/60 Hz, 1.7 A - 0.8 A
DC IN: 26 V, 5.8 A (Supplied from AC adaptor)

Power Consumption
Approx. 163 W (max.)

Operating Temperature
0 °C to 35 °C (32 °F to 95 °F)

Operating Humidity
30% to 85% (no condensation allowed)

Storage/Transport Temperature
-20 °C to +60 °C (-4 °F to +140 °F)

Storage/Transport Humidity
20% to 90% (no condensation allowed)

Operating/Storage/Transport Pressure
700 hPa to 1,060 hPa

Dimensions (W x H x D)
753.9 x 476.3 x 79.2 mm (29 3/4 x 18 7/8 x 3 1/8 inches)
753.9 x 533.3 x 319 mm (26 3/4 x 21 x 12 5/8 inches)
(with optional SU-600MD stand)

Mass
Approx. 11.8 kg (26 lb 1 oz) (without optional SU-600MD stand)

Mounting
100 x 100 mm VESA

Supplied Accessories
AC power cord (1)
Plug holder for the supplied AC power cord (2)
Before Using This Unit (1)
CD-ROM (including the Instructions for Use) (1)
Service Contact List (1)
Screws for the VESA mount, M4 x 12 mm (4)

* This product is distributed to EU and US as a medical device and satisfies product safety standards (e.g. IEC 60601-1).

Dimensions

Front
When an optional stand SU-600MD is attached

Rear (VES A Mount Instruction)

Side
When an optional stand SU-600MD is attached

Optional Accessories

AC-300MD
AC Adaptor

SU-600MD
Monitor Stand

FS-24
Foot Switch

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