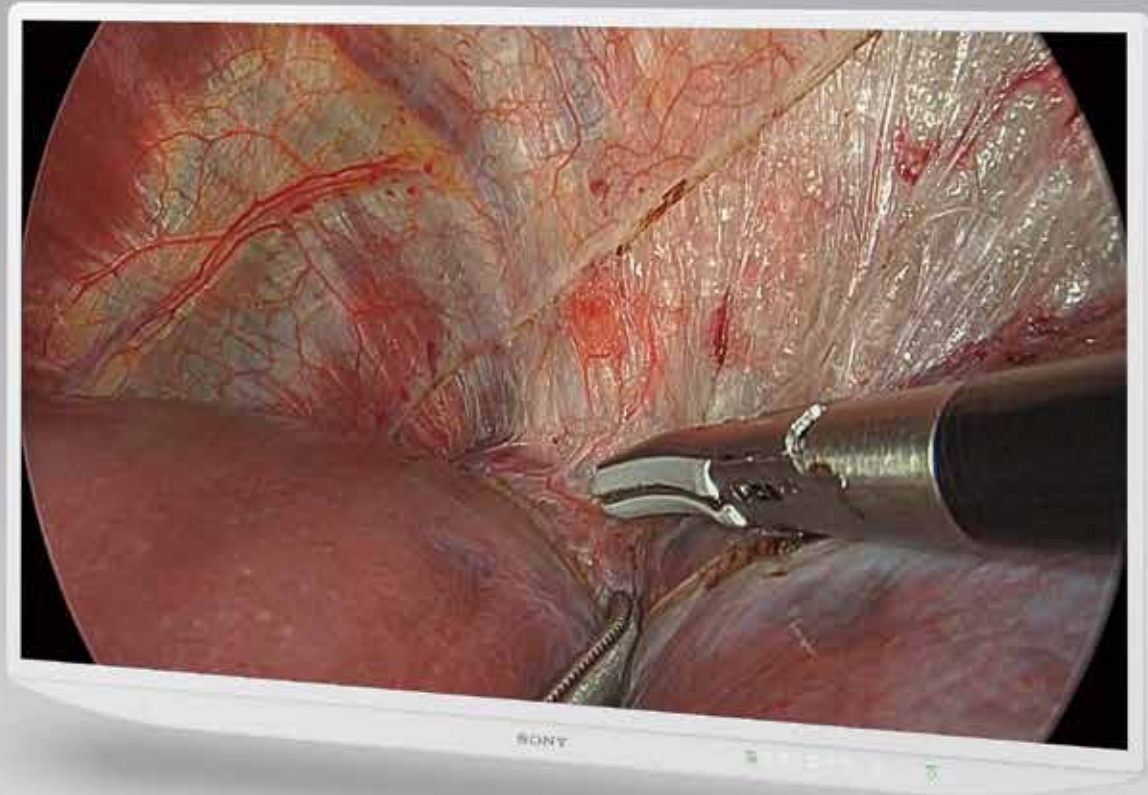


SONY

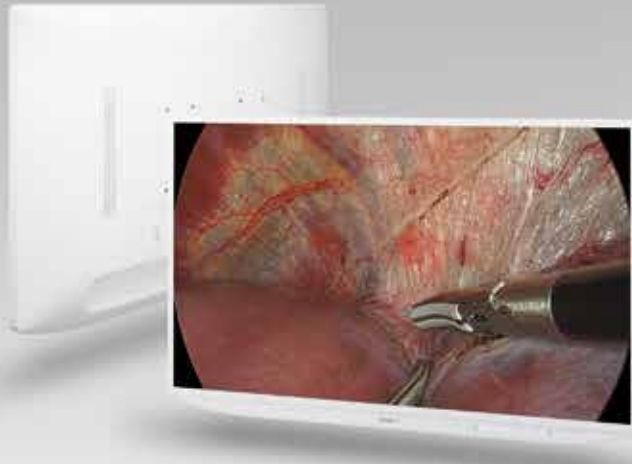


LMD-XH550MD

4K 2D 55-inch LCD Monitor



High Quality 4K UHD 2D 55-inch Medical Monitor



The LMD-XH550MD medical grade monitor with high brightness, high contrast and wide color gamut can display very high quality 4K UHD color video images in 2D. 4K imaging offers four times the resolution of full HD providing a greater level of detail suitable for use in hospital operating theaters, surgical centers and classrooms for education.

Superb Picture Quality

4K Ultra HD Resolutions

4K resolution (3840 x 2160 pixels) on a large 55-inch screen offers high picture quality.

High Brightness and High Contrast

Thanks to Sony's unique Local Dimming Technology, the monitor can achieve a peak brightness of more than 1,500 cd/m² (panel specification) and a contrast ratio of 1,000,000:1.

HDR-compatible

The LMD-XH550MD has the HDR display function. When receiving the HLG (Hybrid Log-Gamma) signals, the monitor can reproduce the images more realistically. Greater detail capture in the highlights and dark areas - no detail remains undiscovered in the dark or lost in overexposed highlights.

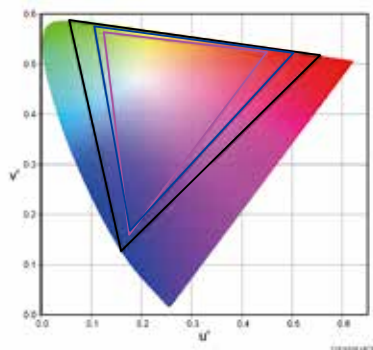


SDR

HDR

Wider Color Gamut

The LCD panel and signal processing technology offer a wide color gamut. This conforms to the ITU-R recommendation BT.2020 with a wider color space than the BT.709 color space, allowing for better color reproduction and realistic visualization.



— LMD-XH550MD
— ITU-R BT.2020
— ITU-R BT.709

Anti-Reflection Structure

The LMD-XH550MD 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.

Local Dimming Technology

Local Dimming Technology finely tunes LED lighting sources for backlights separately for light and dark zones. This enables turning On and Off LED lighting sources for backlights for each area, eliminating black clipping in dark zones and white clipping in light zones, thereby achieving superior expression suited for HDR content.

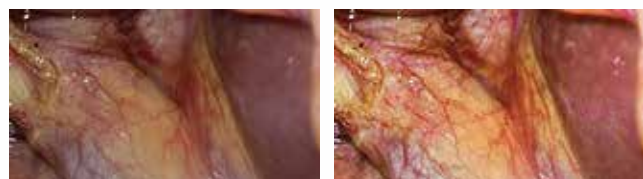
As a result of Sony's special expertise, a peak brightness is achieved by adding the power that is saved in the dark area to be put on top of the bright area.



Advanced Features

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

Sony's unique A.I.M.E. technology enhances the displayed images by adjusting the color, contrast and visibility of shadow areas for more comfortable viewing.

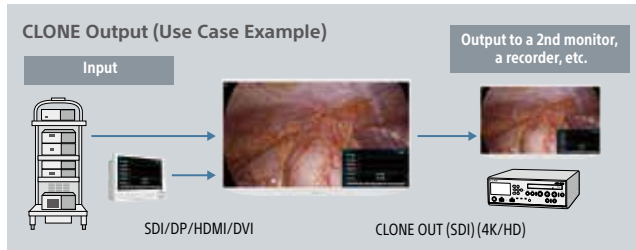


A.I.M.E. OFF

A.I.M.E. ON

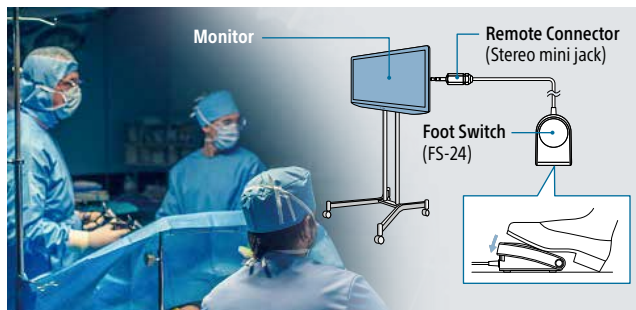
CLONE Output

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. Also, the resolution of the clone-output can be selected from 4K or HD depending on how you are using it.



Simple Remote Control via Stereo Mini

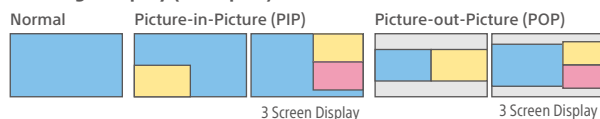
This allows you to use the foot switch via the stereo mini jack to switch the most frequently used menus such as A.I.M.E. ON/ OFF, Port A/B, PIP/POP, flip pattern.



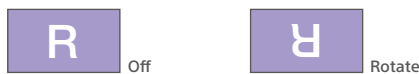
Wide Range of Display Modes

The monitor can display multiple images at the same time or rotate an image 180 degrees. Options include two screens with main 2D and sub 2D picture, or three screens with three 2D pictures.

Multi-image Display (Examples)

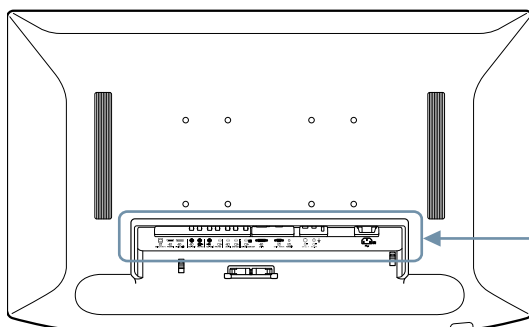


Flip Pattern

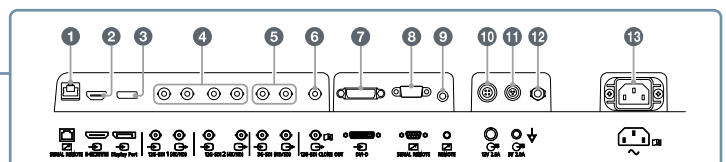


Wide Range of Connectors

Various input/output connectors such as a 12G-SDI and Display Port are available to meet a wide variety of user needs.



- 1 SERIAL REMOTE connector (RJ-45)
- 2 HDMI input connector
- 3 Display Port input connector
- 4 12G-SDI 1/2 input/output connector (BNC type) SDI (4K/HD)
- 5 3G-SDI input/output connector (BNC type) SDI (HD/SD)
- 6 CLONE output connector (BNC type)
- 7 DVI-D input connector
- 8 SERIAL REMOTE connector (RS-232C) (D-sub 9-pin, female)
- 9 REMOTE connector (Stereo mini jack)
- 10 12V 2.5A (DC output) connector
- 11 5V 2.0A (DC output) connector
- 12 Equipotential terminal
- 13 AC input connector



Easy to Install & Use

Design for Better Cleaning

The LMD-XH550MD offers a smooth surface and streamlined back shape. This design allows you to easily wipe liquids and gels off the LCD panel, control buttons, and the rear cover, ensuring a high standard of disinfection and cleanliness.



Intuitive Navigation

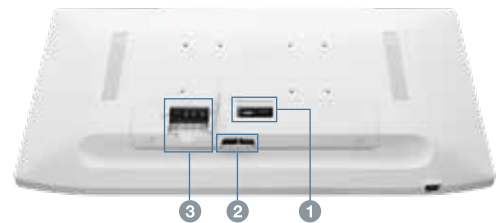
LED backlighting only highlights active control buttons on front panel to guide the user easily and prevent misoperation, also in dark environments. Custom buttons can be assigned to commonly used functions.



Installation-Friendly Cabling

All the connectors face downwards, allowing for easy and organized cable connection. There are three cable access points with covers to enable for variable installation settings. These features mean that you can simplify the cabling for all your various installation needs.

Cable access point 1-3



Other Features

- HD/SD to 4K Upscaling
- Color Matching Function
- Zoom Function (1x, 1.2x, 1.5x or 2x)
- Light weight of 25 kg for Installation Flexibility
- Control Panel with LED Lighting Navigation

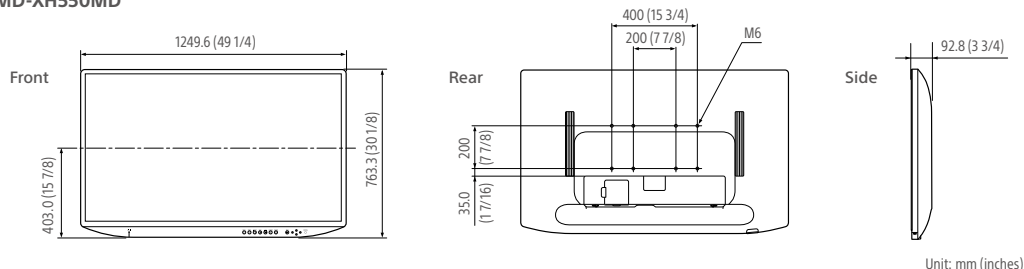
Specifications

LMD-XH550MD	
Picture Performance	
Panel	TFT Active Matrix LCD
Picture Size (Diagonal)	1387.8 mm (54 3/4 inches)
Effective Picture Size (H x V)	1209.6 x 680.4mm (47 5/8 x 26 7/8 inches)
Pixel pitch	0.315 x 0.315 mm (0.0124 x 0.0124 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)	1500cd/m ² (Typical, Peak)
Contrast Ratio	1,000,000:1 (Typical)
Colors	10 bit colors (1,073,741,824)
Panel Frame Rate	50/60 Hz
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, Highlight, HLG
Input	
HDMI Input	HDMI (x1) (HDCP 2.3 correspondence)
DVI-D Input	DVI-D (x1) (TMDS single link, HDCP 1.4 correspondence)
SDI Input	BNC (x2) 12G/3G/HD-SDI, BNC (x1) 3G/HD/SD-SDI
Display Port	Display Port (x1) (SST HDCP 1.3 correspondence)
Serial Remote (LAN)	D-sub 9-pin (RS-232C) (x1), RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)
Remote	Stereo mini jack (x1)
AC input	AC input connector (x1) AC 100-240 V, 50/60 Hz
DC Input	-
Output	
SDI Output	BNC (x2) 12G/3G/HD-SDI, BNC (x1) 3G/HD/SD-SDI
CLONE output	BNC (x1) 12G/3G-SDI
DC 5 V / 12 V Output	5 V Output (x1) 2.0 A max, 12 V Output (x1) 2.5 A max
General	
Power Requirements	AC IN: 100 V - 240 V, 50/60 Hz, 3.1 A - 1.1 A
Power Consumption	Approx. 290 W (max.)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	30% to 85% (no condensation)
Storage/Transport Temperature	-20°C to +60°C (-4°F to +140°F)
Storage/Transport Humidity	20% to 90%
Operating/Storage/Transport Pressure	700 hPa to 1060 hPa
Dimensions (W x H x D)	Approx. 1249.6 x 763.3 x 92.8 mm (Approx. 49 1/4 x 30 1/8 x 3 3/4 inches)
Mass	Approx. 25 kg (Approx. 55 lb 1.8 oz)
Mounting (W x H)	200 x 200 mm, 400 x 200 mm
IP Code	IP45 (front)/IP32 (others)
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), M6 x 12 mm Screw (4)	

These products are distributed to US and EU as medical devices. They satisfy product safety standards (e.g. IEC 60601-1). For more details, please contact your nearest Sony sales office or an authorized dealer.

Dimensions

LMD-XH550MD



Optional Accessories



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