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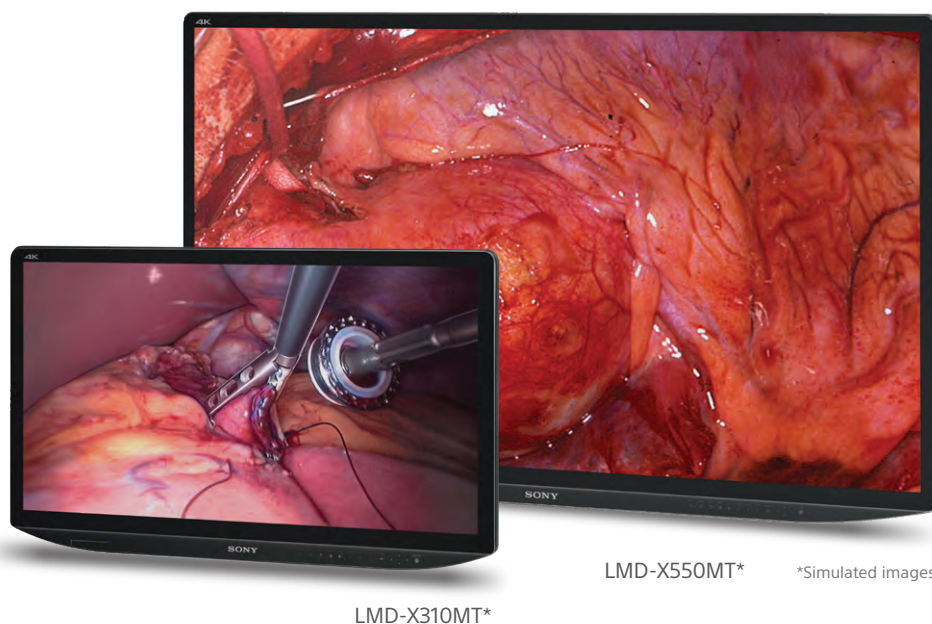
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LMD-X550MT*

*Simulated images

LMD-X310MT*

Upscale your 3D vision in the O.R. to 4K.

Sony's 31-inch* and 55-inch* 4K 3D medical monitors

4K 3D

Now everyone in the O.R. can see in 4K 3D.

Introducing Sony's new 4K 3D displays for the O.R. These are the first medical-grade displays on the market that allow you to upscale your 3D vision in the O.R. to extraordinary 4K clarity. If you work with 3D endoscopic systems or perform robotic surgery, you can now see in resolution that's 4K—sharp enough to capture far more defined details of an image. And these monitors allow everyone in the O.R. to see in 4K 3D as well.

Amazing first-of-its-kind technology gives you extremely bright images with incredible definition and virtually no pixilation. These 31-inch* and 55-inch* displays provide four times the resolution of HD for unsurpassed clarity of surgical vision. Designed for use with surgical endoscopic/laparoscopic camera system, surgical microscopes, and other compatible medical imaging systems in hospital operating rooms, they are also ideal for doctors' offices, surgical center, and educational use.

Surgical Vision Just Got 4x Better

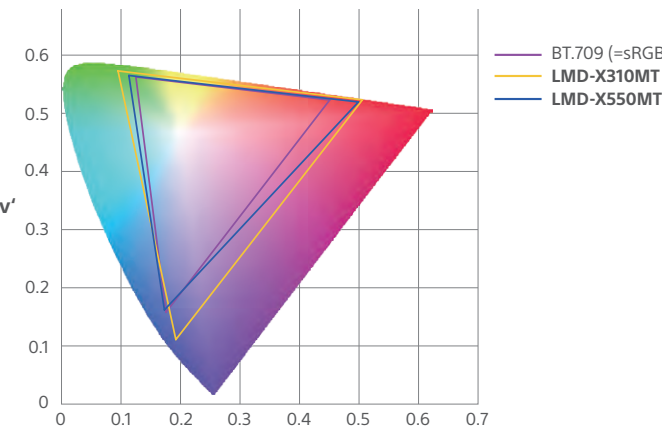
4K Ultra HD resolution

Superb picture quality and bright images: that's what 4K resolution means on such a large screen—31 inches* (4096 x 2160) or 55 inches* (3840 x 2160). The increased number of pixels captured provides greater definition, even compared to a high-definition image. This sharper, more detailed picture gives you the sharpest, clearest surgical vision.



Wider color gamut

These monitors comply with ITU-R Recommendation BT.2020, offering a wider color gamut than the BT.709 color.

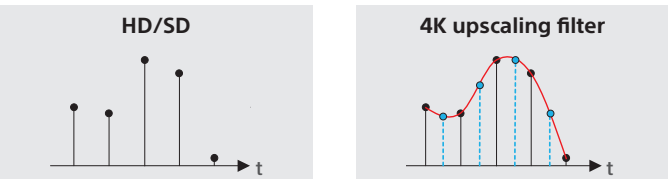


A.I.M.E.™ technology

Advanced Image Multiple Enhancer (A.I.M.E.) is a unique Sony technology that allows you to adjust the view to enhance structure and color. Four contrast modes and eight color modes are possible with A.I.M.E.

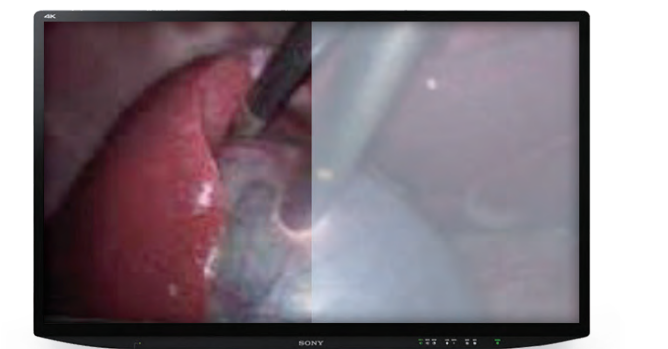
HD/SD to 4K upscaling

Thanks to Sony's unique upscaling filter, these monitors can provide a natural, sharp 4K view when upscaling HD/SD images to 4K.



Sony's unique OptiContrast Panel™

OptiContrast technology replaces the layer of air between the panel and the glass with a layer of resin specially formulated to match the refractive properties of the glass. The OptiContrast panel helps establish dark backgrounds for rich, vibrant, high-contrast images, even in brightly lit rooms. It also reduces glare and reflection and helps in the elimination of internal dew condensation.



Simulated images

With OptiContrast panel Without OptiContrast panel

Zoom function

Adjust image zoom to 1x, 1.2x, 1.5x, or 2x for an enlarged view of small details while retaining high image resolution. Zoom can be set separately for each input (SDI/HDMI/DVI).

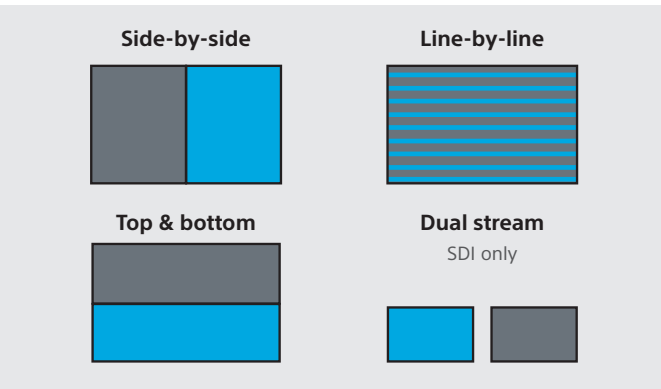
Ergonomic design

Sony's narrow black bezel provides a wider display area with optimized viewing. The slim, compact design facilitates easy adjustment of the monitor position.

3D Features

Display formats

These models can display 3D signals in both HD and 4K, and SDI (3G), DVI, and HDMI terminals are available in 3D mode. The monitors offer various 4K/HD 3D signal display formats, such as side-by-side, line-by-line, and top & bottom. Dual stream is also available for accepting an HD 3D signal via SDI, which enables the monitor to connect with a wide range of equipment with 3D output.



Color-matching function

When you are wearing 3D glasses or eye-shield, a color-matching function helps minimize the color shifts between 2D and 3D display. This function is activated automatically in 3D mode. Also, depth and parallax can be adjusted by a disparity simulation function.**

2D/3D switching button

A 2D/3D switching button on the control panel allows users to change modes easily. The operating mode will be confirmed by an onscreen indicator.

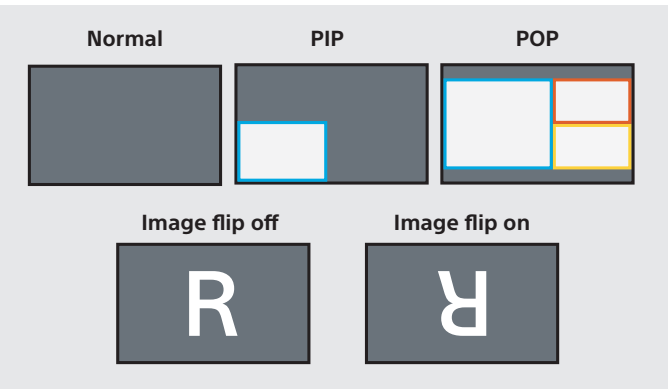
User-friendly control panel

The monitor's easy-to-control panel allows for intuitive operation. LED backlighting only highlights active control buttons, guiding the user, especially in dark environments. Custom buttons can be assigned to commonly used functions.



Wide range of display modes

In addition to a single 3D image, the monitors can display images from multiple sources quickly and easily from the menu. For example, the monitors can show 3D images in rotation, side-by-side, picture-in-picture (PIP), and picture-out-picture (POP). 3D PIP/POP multi-image display options include two screens with a main 3D/2D and sub 2D picture, or three screens with three 2D pictures. 3D pictures can also be rotated 180 degrees (image flip).



3D eye-shield kit

Included with the monitor is a lightweight CFV-E30SK eye-shield kit with one frame and three disposable 3D eye shields, designed for user comfort over extended periods.

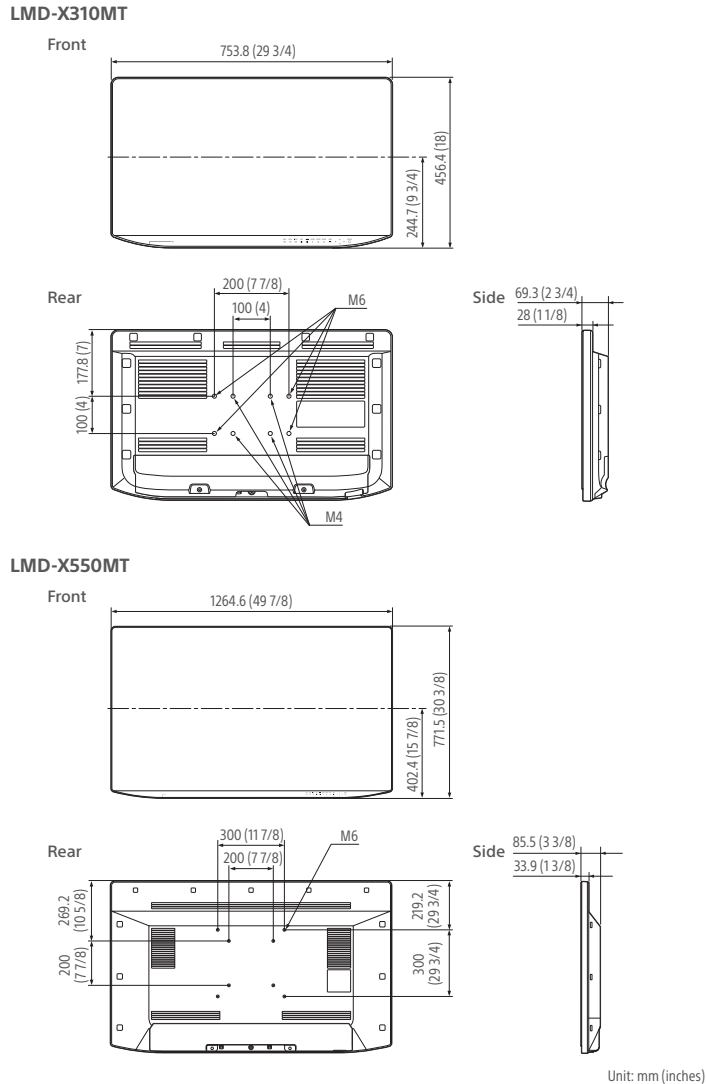


* Viewable area measured diagonally
** Adjusted images are not reflected in the monitor's loop-through output.

Specifications

	LMD-X310MT	LMD-X550MT
Picture Performance		
Panel	a-Si TFT Active Matrix LCD	
Picture Size (Diagonal)	31 1/8 inches (789.06 mm)	54 3/4 inches (1387.8 mm)
Effective Picture Size (H x V)	27 1/2 x 14 1/2 inches (698.0 x 368.1 mm)	47 5/8 x 26 7/8 inches (1209.6 x 680.4 mm)
Pixel pitch	0.1704 x 0.1704 mm	0.315 x 0.315 mm
Resolution (H x V)	4096 x 2160 pixels	3840 x 2160 pixels
Aspect	17:9	16:9
Pixel Efficiency	> 0.9999	
Backlight	LED	
Panel Technology	LCD with IPS	
Luminance (Panel Specification)	435 cd/m ² (typical)	520 cd/m ² (typical)
Contrast Ratio	1450 : 1	1400 : 1
Number of Gray scale	10 bit	
Colors	1,073,741,824	
Panel Frame Rate	50/60 Hz	100/120 Hz
Viewing Angle (Panel Specification)	> 89° / > 89° / > 89° / > 89°	
Vertical Viewing Angle (3D Mode)	27° at a viewing distance more than 775 mm, crosstalk ratio less than 7% (typical)	42° at a viewing distance more than 1,200 mm, crosstalk ratio less than 7% (typical)
Gamma	1.8, 2.0, 2.2, 2.4, 2.6, DICOM, Highlight	
Input		
HDMI Input	HDMI (x1) (HDCP 1.4 correspondence)	
DVI-D Input	DVI-D (x1) (HDCP 1.4 correspondence, TMDS single link)	
SDI Input	BNC (x5) (3G/HD/SD-SDI)	
Serial Remote (LAN)	D-sub 9-pin (RS-232C) (x1), RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)	
Output		
DVI-D Output	DVI-D (x1) when HDCP disabling	
SDI Output	BNC (x5) (3G/HD/SD-SDI)	
DC 5 V/ 12 V Output	5 V Output (x1), 8 W 12 V Output (x1) 20 W max	
General		
Power Requirements	LCD monitor DC Input: 26 V, 6.9 A AC adaptor (AC-300MD): 245 (W) x 150 (L) x 58 (H) mm AC adaptor's AC IN: 100 V to 240 V, 50/60 Hz, 2.1 A to 1.0 A	LCD monitor AC IN: 100 V to 240 V, 50/60 Hz, 3.2 A to 1.3 A
Power Consumption	LCD Monitor: Approx. 180 W (max.)	Approx. 290 W (max.)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F) (Recommended: 20 °C to 30 °C (68 °F to 86 °F))	
Operating Humidity	30% to 85% (no condensation)	
Storage/Transport Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Storage/Transport Humidity	0% to 90%	
Operating/Storage/ Transport Pressure	700 hPa to 1060 hPa	
Dimensions (W x H x D)*	29 3/4 x 18 x 2 3/4 inches (753.8 x 456.4 x 69.3 mm) (Slimmest D 28 mm)	49 7/8 x 30 3/8 x 3 3/8 inches (1264.6 x 771.5 x 85.5 mm) (Slimmest D 33.9 mm)
Mass	Approx. 26 lb 0.23 oz (11.8 kg)	Approx. 77 lb 9.6 oz (35.2 kg)
Mounting	100 x 100 mm VESA 100 x 200 mm VESA	200 x 200 mm VESA 300 x 300 mm VESA
Supplied Accessories		
	AC adaptor : AC-300MD (1) AC power cord (1) Instructions for Use (CD-ROM) (1) Before Using This Unit (1) AC power plug holder (2) Instructions for Use of the AC adaptor (1) Service Contact List (1) M4 x 12 mm Screw (4) 3D Eye Shield Kit: CFV-E30SK (1) Instructions for Use of the eye shield kit (1) European Representative (1)	AC power cord (1) Instructions for Use (CD-ROM) (1) Before Using This Unit (1) AC power plug holder (2) Service Contact List (1) M6 x 12 mm Screw (4) 3D Eye Shield Kit: CFV-E30SK (1) Instructions for Use of the eye shield kit (1) European Representative (1)
* The values for dimensions are approximate.		

Dimensions



Optional Accessories



BKM-30GM
Circular-polarizer 3D Glasses



BKM-31GM
Circular-polarizer 3D Glasses (clip-on)



CFV-E30SK
3D Eye Shield Kit



CFV-E20SK
2D Eye Shield Kit



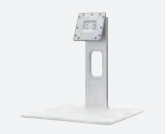
CFV-E30D
3D Eye Shield Pack



CFV-E20D
2D Eye Shield Pack



CFV-B100
Shield Frame



SU-600MD
Monitor Stand
(Only for LMD-X310MT)



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