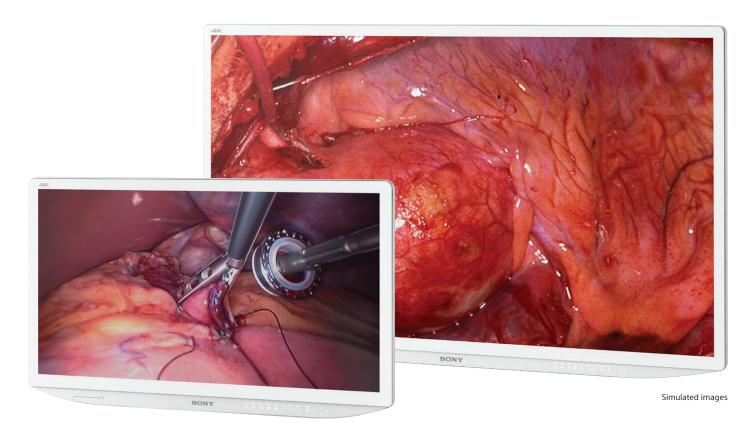
SONY



LMD-X310MD LMD-X550MD

Leading the way in 4K... now in the O.R.

Sony's 31-inch* and 55-inch* medical monitors. Surgical vision just got 4x better.







The 4K Era has arrived in the O.R.

Imagine seeing blood vessels, tissue and organs in detail never before possible with full HD. Imagine being able to see four full HD signals at one time, on one monitor during a procedure.

This is now a reality for medical professionals. Sony is bringing 4K resolution to the O.R., with two new medical monitors, the 31-inch* (LMD-X310MD) and 55-inch* (LMD-X550MD) models.

Sony 4K cameras are already shooting movies, TV shows, and sporting events; Sony 4K digital projectors are in movie theaters around the world and Sony 4K TVs are in homes changing the consumer viewing experience. Now that same technology is available for the health care industry.

4K delivers four times the resolution of HD for the true-to-life clarity that's critical for seeing various nuances of color and detail

so important in minimally invasive microsurgical procedures, general surgery, and medical education and training.
4K provides approximately 8 million pixels versus full HD at approximately 2 million. More pixels mean more information...more information means sharper pictures.

With 4K advanced display technology, you'll have incredible definition and high brightness with virtually no pixilation, even when you zoom in for extreme close-ups. Whether displaying images from a surgical endoscopic camera system, or other medical imaging system, these 4K monitors feature a unique slender chassis, front bezel and robust OptiContrast panel™ that provides edgeto-edge screen protection while reducing glare and reflection. Both models offer Quad View picture display—so surgeons can see 4 full HD (1920 x 1080) images at the same time.

Superb picture quality and extremely bright images.

With four times more resolution than high definition, 4K captures more details of an image and at a farther distance. The increased number of pixels captured means that objects displayed are more defined, compared to a high-definition image. The sharper, more detailed picture helps improve surgical vision, making it ideal for O.R.s in hospitals, surgical centers, clinics, and other medical environments.



Simulated images

With OptiContrast panel

Without OptiContrast panel

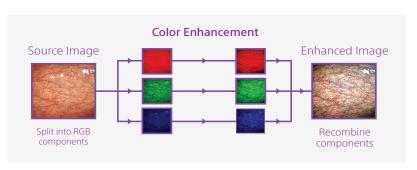
A.I.M.E™ technology.

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 for more comfortable viewing. FPGA improves visibility and features four contrast modes and eight color modes.



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.



A revolutionary new tool to see both the big picture and the small details in your O.R.







Intuitive operation and easy set-up.

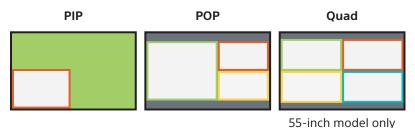
From its intuitively operable control panel with LED navigation to its simplicity of cleaning, the monitors can fit right into your O.R. system.

Set-up is easy. You can assign custom buttons (1-3) to commonly used functions.

Variety of display modes.

Users can easily select different display modes—Mirror Image, Side-by-Side, Picture-in-Picture, and Picture-out-Picture.

And with the Quad View mode, you can see four images in full HD at one time.



33,

Easy to clean and surgically compliant.

The monitors are compliant and certified for IEC 60601-1 and product safety standards in the U.S., Canada, and Europe.** They are also easy to clean, dustproof, and water-resistant. The front panel has an IPX2, to protect against spraying liquids, and its flat surface allows you to easily wipe liquids and gels off the LCD panel and control buttons.



Ergonomic design.

The thin, easy-to-hold, ergonomic design enables you to adjust the monitor to easily position it.



Installation-friendly cabling.

All the connectors face downwards, allowing for easy and organized cable connection.



Specifications

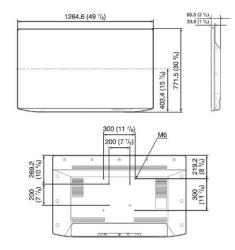
| Picture Performance | LMDX-310MD | LMDX-550MD |
|--------------------------------------|--|---|
| Panel | a-Si TFT Active Matrix LCD | |
| Picture Size (Diagonal) | 31.125 in. (789.06 mm) | 54.75 in. (1387.8 mm) |
| Effective Picture Size (H x V) | 27.5 x 14.5 in. (698.0 x 368.1 mm) | 47.625 x 26.875 in. (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) | 800 cd/m² (typical) | 538 cd/m² (typical) |
| Contrast Ratio | 1450 : 1 | 1400 : 1 |
| Colors | Approx. 1.073 billion colors | |
| Viewing Angle (Panel Specification) | 89°/89°/89° (typical) | |
| Gamma | 1.8, 2.0, 2.2, 2.4, 2.6, DICOM, Highlight | |
| DVI-D Input | DVI-D (x1) (HDCP correspondence), TMDS single link | |
| SDI Input | BNC (x5) | |
| HD15 Input | 3GIHD/SD-SDI | |
| Serial Remote (LAN) | D-sub 9-pin (RS-232C) (x1), RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX | |
| DC Input | XLR-type 3-pin (male) (x1), 26 V DC (output impedance 0.005Ω or less) | - |
| DVI-D Output | DVI-D (x1) when HDCP disabling | |
| SDI Output | BNC (x5) | |
| 5V DC Output | 5 V Output (x1), 8 W 12 V Output (x1), 20 W max | |
| 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 IN: 100 V-240 V, 50/60 Hz, 2.0A- 0.8 A | AC IN: 100 V-240 V, 50/60 Hz, 3.2 A- 1.3 A |
| Operating Temperature | 32°F to 95°F (0°C to 35°C) (Recommended: 68°F to 86°F (20°C to 30°C) | |
| Operating Humidity | 30% to 85% (no condensation) | |
| Storage/Transport Temperature | -4°F to +140°F (-20°C to +60°C) | |
| Storage/Transport Humidity | 0% to 90% | |
| Operating/Storage/Transport Pressure | 700 hPa to 1060 hPa | |
| Dimensions (W x H x D) | 29.75 x 18 x 2.75 in. (753.8 x 456.4 x 69.3 mm) (Slimmest depth 28mm) | 49.875 x 30.375 x 3.375 in. (1264.6 x 771.5 x 85.5 mm) (Slimmest depth 33.9 mm) |
| Mass (Approx.) | 26.875lb (12.2 kg) | 77.162lb (35.0 kg) |
| Supplied Accessories | AC adaptor: AC-300MD(x1), AC power cord (x1), Instructions for Use (CD-ROM) (x1), Abridged edition of Instructions for Use (x1), AC power plug holder (x2), Instructions for Use of the AC adaptor (x1), Service Contact List (x1) | AC power cord (x1), Instructions for Use (CD- ROM) (x1), Abridged edition of Instructions for Use (x1), AC power plug holder (x2), Service Contact List (x1) |

| Cer | tification and Standards |
|---------------------------|--|
| Safety | |
| | 60601-1, CAN/CSA-C22.2 No. J: EN 60601-1 |
| EMC | |
| US/CA: FCG A, EU: EN 6 | C Part 15 Class A, ICES-003 Class 50601-1-2 |
| AU: EN 550 | 011 Class B, J: VCCI Class A |
| CB Certifica | ation |
| IEC 60601- | 1, IEC 60065 |

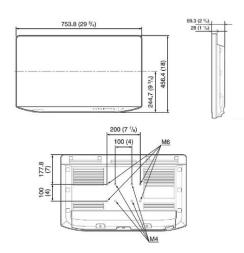
| Regulatory Compliances | |
|-------------------------|--|
| FD&C Act (FDA) | |
| Class II Medical Device | |
| MDD (EC) | |
| Class I Medical Device | |

For more details on compliance issues, please contact your nearest Sony office or an authorized dealer.

LMD-X550MD



LMD-X310MD



Sony Electronics Inc. 1 Sony Drive Park Ridge, NJ 07656 sony.com/medical sony.com/4Kmedical ME-4059

© 2015 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications subject to change without notice. Sony, A.I.M.E., OptiContrast, and the Sony logo are trademarks of Sony.