

SONY



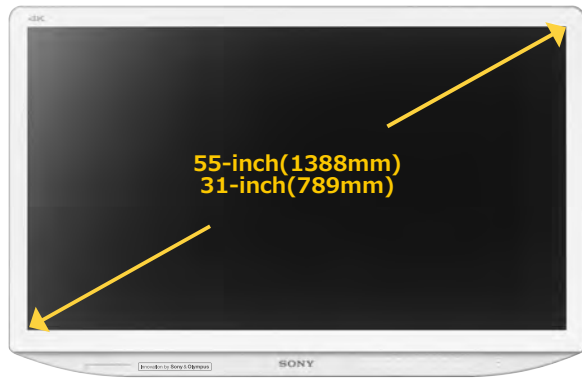
LMD-X550S

LMD-X310S

LCD Monitors

Innovation by
Sony & Olympus

4K



LMD-X310S

Offering advanced display technology specifically designed for use in medical environments, the stylish LCD monitors from Sony are available in two sizes. The LMD-X310S models are 31-inch (789mm) and the LMD-X550S models are 55-inch (1,388mm) in size.

These monitors provide 4K resolution, capable of displaying over four times Full HD, 2D color video displays of images from a surgical endoscope, laparoscopic camera system, and other compatible medical imaging systems.

Their compact and user-friendly design is suitable for modern medical environments including operating rooms, surgical centers, clinics, doctor's offices.

High Picture Quality

Large 4K Screen

The 4K resolution on 31-inch (4096 x 2160) and 55-inch (3840 x 2160)*¹ large screen offers high picture quality.

Wide color gamut

The LCD panel and signal processing technology provides a wide color gamut.

Special Color Pre-Settings for OLYMPUS Systems

Special Color Settings are already Pre-set for OLYMPUS 4K System and other Endoscope Systems. X310S/X550S are improved compatibility to OLYMPUS Systems.

Clear and High-contrast View



The "OptiContrast Panel™" achieves clear, high-contrast images by controlling reflection and minimizing light dispersion in the LCD panel. It also helps to eliminate dew condensation in the panel.



Compact and Stylish Design

Narrow bezel

The narrow bezel means the monitor has a wider display area, even with the compact body.

Ergonomic design

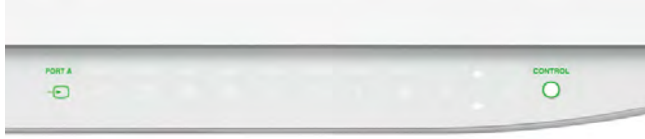
The easy-to-grip ergonomic design enables the user to make tiny adjustments simply and quickly.



Easy to Use

User-friendly control panel

LED navigated operation enables the user to change the settings easily, even in dark environments. The user can even assign CUSTOM buttons to commonly used functions.



Variety of display formats

A variety of display formats – including Rotation Image, Side-by-Side, Picture-in-Picture, and Picture-out-Picture can be selected easily by simply locating the format on a menu, and selecting a choice.

Multi-image Display (Examples)

Normal Picture-in-Picture (PIP) Picture-out-Picture (POP)

3 Screen Display 3 Screen Display

Flip Pattern

Off Rotate

R R

Installation-friendly cabling

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



Easy to clean

The flat surface allows the user to easily wipe liquids and gels off the LCD panel and control buttons – Supporting a high standard of disinfection and cleanliness.

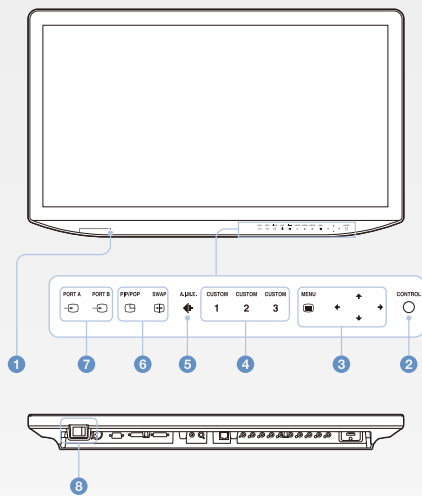


Compliance with Standards*

These monitors are certified to IEC 60601- 1 and applicable standards in respective countries or economic regions including Canada, Europe and the USA.

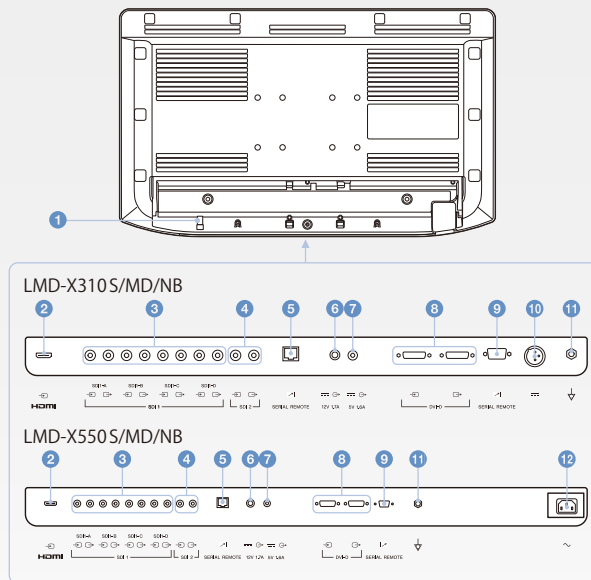
* For more details on compliance issues, please contact your nearest Sony office or an authorized dealer.

Front Panel



- 1 Power indicator
- 2 CONTROL button
- 3 OSD menu operation buttons
- 4 CUSTOM button
- 5 A.I.M.E. button
- 6 2 or 3 screen display setting buttons
- 7 Input select buttons
- 8 (ON/STANDBY) switch

Rear/Bottom Panel



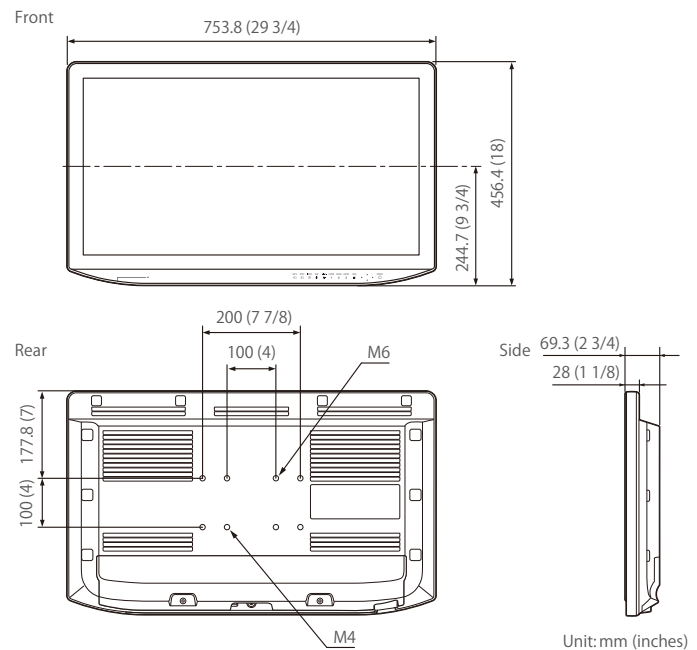
- 1 HDMI cable holder
- 2 HDMI 1.4a input connector
- 3 3G/HD/SD-SDI input/output connector (BNC type) SDI 1
- 4 3G/HD/SD-SDI input/output connector (BNC type) SDI 2
- 5 SERIAL REMOTE connector (RJ-45)
- 6 12V 1.7A output connector
- 7 5V 1.6A output connector
- 8 DVI-D input/output connector
- 9 SERIAL REMOTE RS-232C connector (D-sub 9-pin, female)
- 10 (DC 26 V input) connector (LMD-X310S only)
- 11 (equipotential) terminal
- 12 (AC input) connector (LMD-X550S only)

Specifications

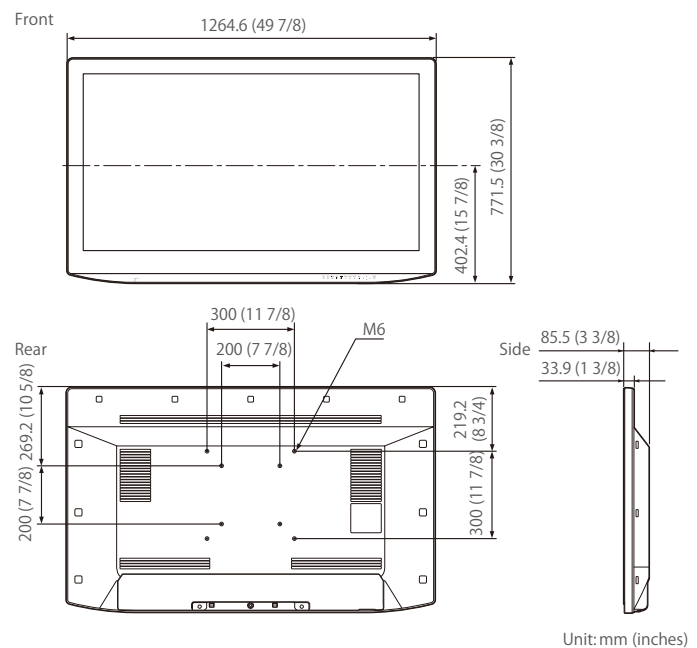
	LMD-X310S	LMD-X550S
Picture Performance		
Panel	a-Si TFT Active Matrix LCD	
Picture Size (Diagonal)	789.06 mm (31 1/8 inches)	1387.8 mm (54 3/4 inches)
Effective Picture Size (H x V)	698.0 x 368.1 mm (27 1/2 x 14 1/2 inches)	1209.6 x 680.4 mm (47 5/8 x 26 7/8 inches)
Pixel pitch	0.1704 x 0.1704 mm	0.315 x 0.315mm
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)	770cd/m ² (typical)	520 cd/m ² (typical)
Contrast Ratio	1450 : 1	1400 : 1
Colors	Approx.1.073 billion colors	
Viewing Angle (Panel Specification)	89° /89° /89° /89° (typical)	
Gamma	1.8, 2.0, 2.2, 2.4, 2.6, DICOM, Endoscope, Highlight	
HDMI Input	HDMI (x1) (HDCP/HDMI 1.4a)	
DVI-D Input	DVI-D (x1) (HDCP) TMDS single link	
SDI Input	BNC (x5) 3G/HD/SD-SDI	
Serial Remote (LAN)	D-sub9-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 0.005 ohms or less)	
DVI-D Output	DVI-D (x1) when HDCP disabling	
SDI Output	BNC (x5)	
DC 5V/12V Output	5 V Output(x1), 8 W 12 V Output (x1) 20 W max	
General		
Power Requirements /Power Consumption	LCD monitor - DC Input: 26 V, 6.9 A AC adaptor(AC-300MD): 245 (W) x 150 (L) x 58 (H) mm AC Adaptor IN: 100 V - 240 V, 50/60 Hz 2.1A-1.0A / Approx. 180W(max.)	LCD monitor AC IN: 100 V - 240 V, 50/60 Hz, 3.2 A - 1.3 A / Approx. 290W(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)	753.8 x 456.4 x 69.3 mm (Slimmest D 28mm) (29 3/4 x 18 x 2 3/4 inches)	1264.6 x 771.5 x 85.5 mm (Slimmest D 33.9mm) (49 7/8 x 30 3/8 x 3 3/8 inches)
Mass	Approx. 11.8 kg (Approx.26lb 0.23oz)	Approx. 35.2 kg (Approx. 77lb 9.6oz)
Supplied Accessories	AC adaptor : AC-300MD(1) AC power cord (1) Instructions for Use (Paper)(1) Instructions for Use(CD-ROM)(1) Abridged edition of Instructions for Use(1) AC power plug holder Instructions for Use of the AC adaptor (1) Service Contact List (1) M4 x 12mm Screw (4)	AC power cord (1) Instructions for Use(Paper) (1) Instructions for Use(CD-ROM) (1) Abridged edition of Instructions for Use(1) AC power plug holder Service Contact List (1) M6 x 12mm Screw (4)

Dimensions

LMD-X310S




LMD-X550S



CAUTION: Federal law (United States of America) restricts this device to sale by or on the order of a licensed healthcare practitioner.
CAUTION: See product labeling for indications, contraindications, warnings, cautions, and directions for use.

Innovation by Sony & Olympus

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