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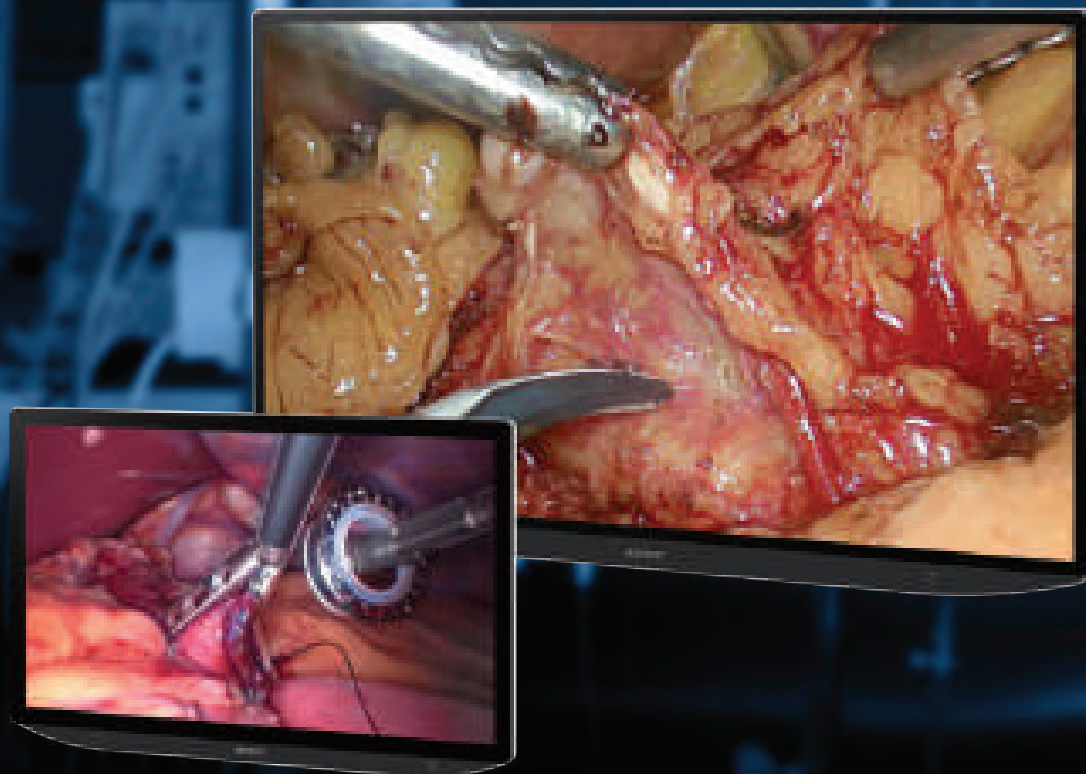
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A NEW GENERATION IN 4K SURGICAL DISPLAYS

LMD-XH550MT LMD-XH320MT

4K 3D/2D 55-inch and 32-inch LCD displays



3D

Exceptional performance with Sony HDR and local dimming technology.

Sony's High Dynamic Range (HDR) with Local Dimming Technology is a game-changer, enabling you to see details in the highlights and shadows as never before. Bright areas are brighter and dark areas darker – no more details overwhelmed by shadow or lost in blown-out highlights. You'll experience more contrast and far less halation of blood and tissue structures. And all your imaging modalities will benefit from two times the peak brightness,

plus deeper blacks, and reduced reflections with our advanced anti-reflection panel technology. The new LMD-XH550MT and LMD-XH320MT displays feature 4K resolution (3840 x 2160) and are 2D/3D capable. Not to mention OR integration friendly inputs such as Display Port, HDMI, and 12G-SDI – easier cleaning design and so much more. Experience this monitor for yourself. And get a first-hand look at the new generation. Only from Sony.

Superb picture quality

4K Ultra HD resolutions

4K resolution (3840 x 2160 pixels) on a large 55-inch or 32-inch screen offers high picture quality.

High brightness and high contrast

The LMD-XH550MT and LMD-XH320MT feature Sony's unique Local Dimming Technology, which controls the brightness of the LEDs depending on the scene. Thanks to this, the displays can achieve a peak brightness of more than 1,750 cd/m² (panel specification) and a contrast ratio of 1,000,000:1.

HDR-Compatible

The LMD-XH550MT and LMD-XH320MT has the HDR display function. When receiving the HLG (Hybrid Log-Gamma) signals, the displays can reproduce the images more realistically. Greater detail capture in the highlights and dark areas - virtually no detail remains undiscovered in the dark or lost in overexposed highlights.



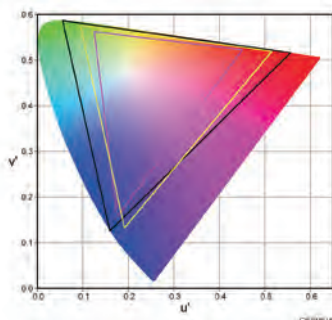
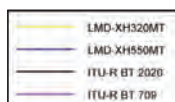
SDR



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.



Anti-reflection structure

These surgical displays are 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.

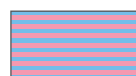
3D features

Various display formats in 3D

The LMD-XH550MT and LMD-XH320MT can display 3D and 2D signals in HD and 4K. This display offers SDI (12G/3G), Display Port, DVI, and HDMI terminals supporting a variety of different 2D and 3D signal formats such as side-by-side, line-by-line, and top & bottom. Furthermore, dual stream is available when accepting an HD 3D signal via SDI. The 3D/2D operating mode can be changed directly with the button on the front panel and the mode is indicated on the display.



Side-by-side



Line-by-line



Top & bottom



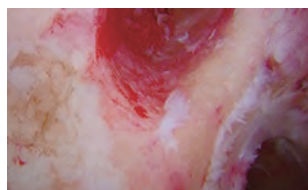
Dual stream*

*SDI Only

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.



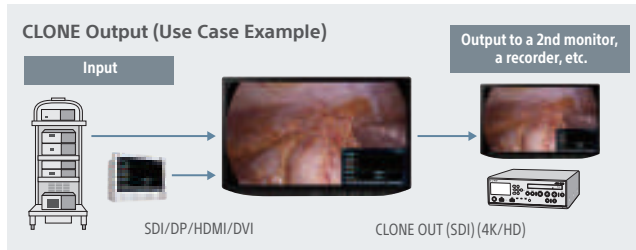
A.I.M.E. OFF



A.I.M.E. ON

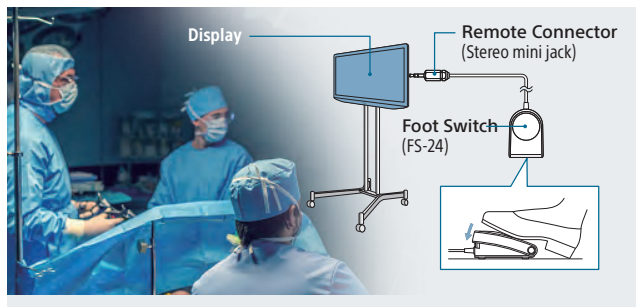
CLONE output

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

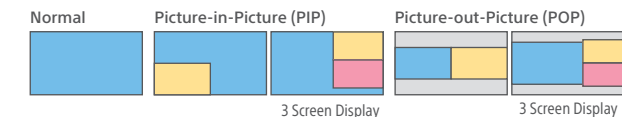
This allows you to use the foot switch via the stereo mini jack to switch the most frequently used menus such as A.I.M.E. ON/ OFF, Port A/B, PIP/POP, flip pattern, and 2D/3D.



Wide range of display modes

Display multiple images at the same time or rotate an image 180 degrees. Options include two screens with main 3D/2D and sub 2D picture, or three screens with three 2D pictures.

Multi-image Display (Examples)



Flip Pattern



Easy to install & use

Design for better cleaning

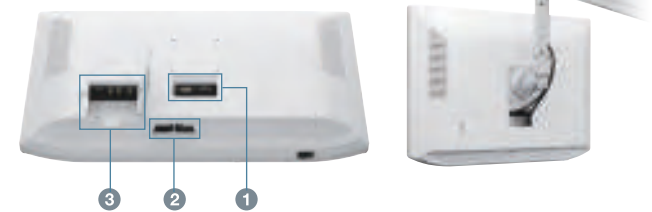
These surgical displays offer a smooth surface and streamlined back shape. This design allows you to easily wipe liquids and gels off the LCD panel, control buttons, and the rear cover, ensuring a high standard of disinfection and cleanliness.



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

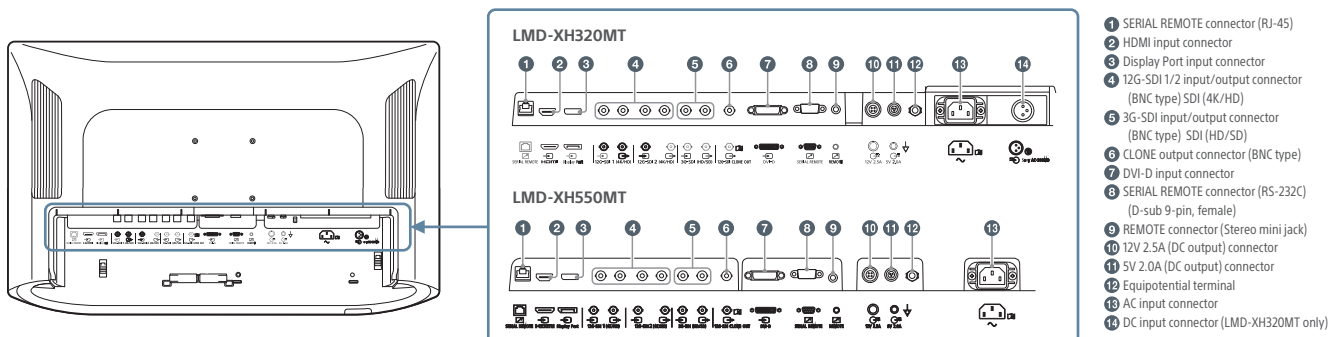


Other features

- HD/SD to 4K upscaling
- 3D/2D color matching function
- Zoom function (1x, 1.2x, 1.5x or 2x)
- Light weight of 27 kg (XH550MT) and 10.5 kg for (XH320MT) installation flexibility
- Choice of direct AC in or AC adaptor (XH320MT only)
- Control panel with LED lighting navigation

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.

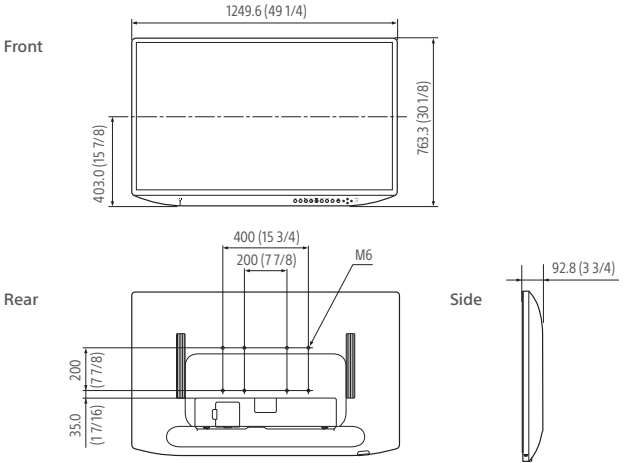


Specifications

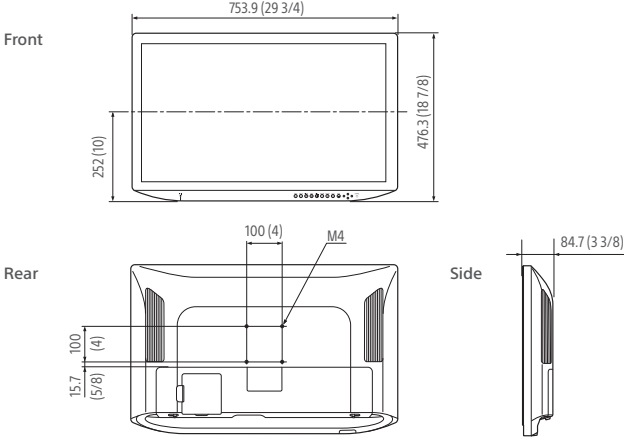
	LMD-XH550MT		LMD-XH320MT	
Picture Performance				
Panel	TFT Active Matrix LCD			
Picture Size (Diagonal)	1387.8 mm (54 3/4 inches)		800.757 mm (31 5/8 inches)	
Effective Picture Size (H x V)	1209.6 x 680.4mm (47 5/8 x 26 7/8 inches)		697.92 x 392.58 mm (27 1/2 x 15 1/2 inches)	
Pixel pitch	0.315 x 0.315 mm (0.0124 x 0.0124 inches)		0.18175 x 0.18175 mm (0.00716 x 0.00716 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)	550cd/m ² (Typical) 1500cd/m ² (Typical, Peak)		650cd/m ² (Typical) 1750cd/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)			
Vertical Viewing Angle (3D Mode)	37°at a viewing distance more than 1,000mm, crosstalk ratio less than 7% (Typical)		32°at a viewing distance more than 690mm, crosstalk ratio less than 7% (Typical)	
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	-		DC input connector (x1) DC 26 V	
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		AC IN: 100 V - 240 V, 50/60 Hz, 2.4 A - 1.1 A	
	-		DC IN: 26 V, 8.8 A (max) (Supplied from AC adaptor)	
Power Consumption	Approx. 290 W (max.)		Approx. 230 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)	1249.6 x 763.3 x 92.8 mm (49 1/4 x 30 1/8 x 3 3/4 inches)		753.9 x 476.3 x 84.7 mm (29 3/4 x 18 7/8 x 3 3/8 inches)	
Mass	Approx. 27 kg (Approx. 59 lb 8.4 oz)		Approx. 10.5 kg (Approx. 23 lb 2.38 oz)	
Mounting (W x H)	200 x 200 mm 400 x 200 mm		100 x 100 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)		M4 x 12 mm Screw (4)	
	3D Eye Shield Kit: CFV-E30SK (1)			
	Instructions for Use of the 3D Eye Shield Kit (1)			
	Optional Accessories			
	3D Eye Shield Kit: CFV-E30SK			
	2D Eye Shield Kit: CFV-E20SK			
	3D Eye Shield: CFV-E30D			
	2D Eye Shield: CFV-E20D			
	Shield Cover: CFV-50SC			
	Shield Frame: CFV-B100			
	Foot Switch FS-24			
	-	AC Adaptor AC-300MD		
	-	Monitor Stand SU-600MD		

Dimensions

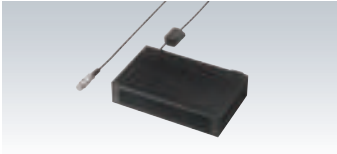
LMD-XH550MT



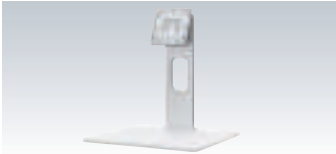
LMD-XH320MT



Optional accessories



AC-300MD
AC Adaptor



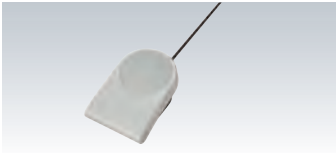
SU-600MD
Monitor Stand



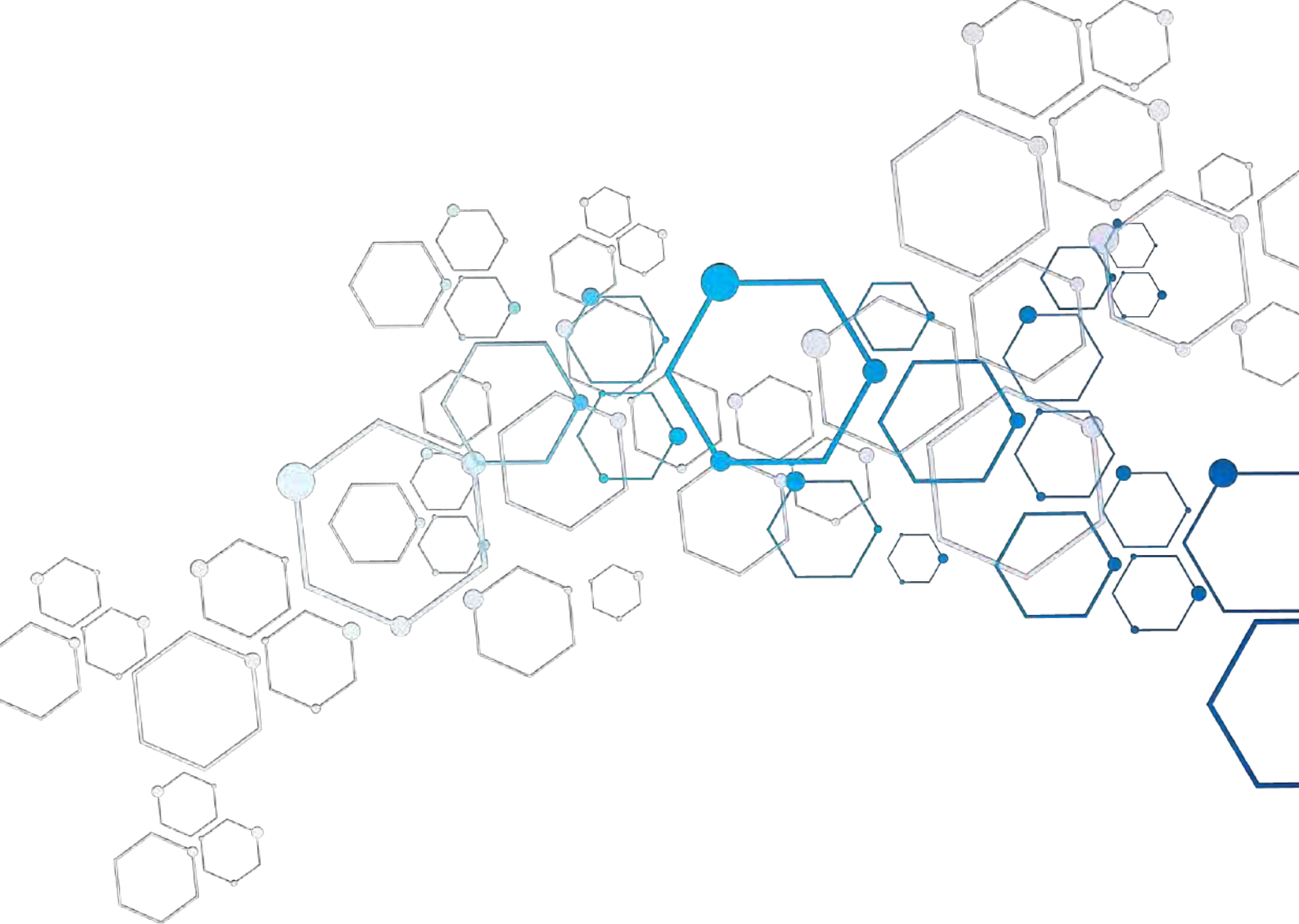
CFV-E30SK
3D Eye Shield Kit
CFV-E30D
3D Eye Shield



CFV-50SC
Shield Cover
CFV-B100
Shield Frame



FS-24
Foot Switch



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