

### LMD-X550MT

55-inch 4K 3D/2D LCD medical monitor



#### Overview

## View surgical images in 3D or 2D with the detail, clarity and colour of 4K

This 55-inch medical grade widescreen LCD monitor can display very high quality 4K Ultra HD colour video images in 3D and 2D from endoscopic/laparoscopic cameras, surgical microscopes and other compatible medical imaging systems. Its ergononic design is optimised for environments such as hospital Operating Rooms, surgical centres, clinics and doctors' offices.

Offering four times the pixel count of Full HD, the LMD-X550MT provides a clearer view of fine details than conventional medical monitors. Its increased resolution also maintains picture quality when viewing zoomed images, as well as supporting multiple picture display modes for enhanced operability in the OR.

The OptiContrast Panel™ ensures clear, high contrast images by controlling light reflections and dispersion within the LCD panel. The monitor's advanced panel design is teamed with powerful Sony digital signal processing to provide a wider colour gamut than ordinary LCD medical monitors.

3D Advanced Image Multiple Enhancer (A.I.M.E.™) technology can be used to accentuate subtle colour differences or highlight the outline structure of displayed objects.

The LMD-X550MT features a slim, stylish design to allow easy handling, with a narrow bezel that maximises the monitor's screen area. Flat surfaces make cleaning and disinfection simpler in modern clinical environments.

Simple installation and set-up is complemented by a user-friendly control panel with LED lighting navigation for positive, intuitive operation in the OR.

The monitor is provided with an included light, easy to wear 3D eye-shield starter kit. Further eye-shields are available as an option.

#### **Features**

#### **4K Ultra HD resolution**

The LMD-X550MT can display Ultra HD images with four times the detail of Full HD.

## High brightness anti-reflective OptiContrast Panel™

The 55-inch (1,388mm) OptiContrast Panel™ features an advanced design that controls incident light reflections and dispersion within the LCD panel layer for improved contrast and visibility. It also helps prevent dew condensation within the panel.

#### 3D features

3D/2D operating mode can be set via display menu and is confirmed by an on-screen indicator. A 3D/2D colour matching function minimises shifts in colour when viewing images in 3D (with glasses) or 2D (without glasses). Depth and parallax can be adjusted by a disparity simulation function.

### Wider colour gamut

The advanced panel design and Sony signal processing ensure a

wider colour gamut - as much as 30% greater than the BT.709 colour space.

### HD/SD to 4K upscaling

Unique Sony image interpolation and upscaling gives crisp, natural 4K view of lower resolution (HD/SD) images without blurring or 'jaggies'.

### 3D A.I.M.E.™ (Advanced Image Multiple Enhancer)

This unique technology has been developed to enhance the visibility of displayed shapes and colours. Structure Enhancement mode accentuates the outline of on-screen objects, while Colour Enhancement mode helps clarify subtle tonal differences between objects.

#### **Zoom function**

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

### Ergonomic easy-grip design

The monitor's slim, compact, easy to hold design facilitates simple user adjustment of monitor position.

### Smaller bezel, larger screen

The narrow bezel maximises screen size of this compact, spacesaving monitor.

### User friendly control panel

Operation is simplified by the monitor's intuitive, easy to use control panel. LED backlighting only highlights active control buttons, guiding the user and reducing the risk of inadvertent operation, especially in dark environments. Custom buttons can be asigned to commonly used functions.

### Easy clean design

Flat surfaces simplify wiping off liquids and gels from the LCD panel and control buttons, supporting more effective cleanliness and disinfection.

### **Choice of display formats**

A variety of display formats including Rotation Image, Side-by-Side, Picture-in-Picture (PIP) and Picture-out-Picture (POP) can be selected quickly and easily from the menu. 3D PIP/POP multi-image display options include two screens with main 3D/2D and sub 2D picture, or three screens with three 2D pictures. 3D pictures can also be rotated 180 degrees (image flip).

### **Installation friendly cabling**

All signal connectors face downwards, allowing easy and organised cable connection to other equipment in the OR.

### Compliance with medical standards

This product is distributed to the US and EU as a medical device and satisfies product safety standards (e.g. IEC 60601-1). For more details, please contact your nearest Sony sales office or an authorized dealer.

### Specifications

Picture Performance		
Panel	a-Si TFT Active Matrix LCD	
Picture Size (Diagonal)	1387.8mm 54 3/4 inches	
Effective Picture Size (H x V)	1209.6 x 680.4 mm	
	47 5/8 x 26 7/8 inches	
Pixel pitch	0.315 x 0.315mm	

Resolution (H x V)	3840 x 2160 pixels
Aspect	16:09
Pixel Efficiency	> 0.9999
Backlight	LED
Panel Technology	LCD with IPS
Luminance (Panel Specification)	520 cd/m2 (typical)
Contrast Ratio	1400:01:00
Number of Gray scale	10bit
Colors	1,073,741,824
Panel Frame Rate	100/120Hz
Viewing Angle (Panel Specification)	>89°/>89°/>89°/>89°
Vertical Viewing Angle (3D Mode)	32° 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)	
DC 5 V/ 12V Output	5V Output(x1), 8W 12V Output (x1) 20W max	
	12V Output (x1) 20W max	
	12V Output (x1) 20W max	
General	12V Output (x1) 20W max	
General  Power Requirements	12V Output (x1) 20W max  LCD monitor  AC IN: 100 V - 240 V, 50/60  Hz, 3.2 A - 1.3 A	

Operating Temperature	0°C to 40°C (Recommended: 20°C to 30°C) 32°F to 104°F (Recommended: 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) *1	1264.6 x 771.5 x 85.5 (Slimmest D 33.9 mm) 49 7/8 x 30 3/8 x 3 3/8 inches
Mass	Approx. 35.2 kg Approx. 77lb 9.6oz
Mounting	200 x 200 mm VESA 300 x 300 mm VESA
	AC power cord (1) Instructions for Use (CD-

ROM) (1)
Abridged edition of
Instructions for Use (1)
AC power plug holder(2)
Service Contact List(1)
Warranty book (JP only) (1)
M6x12mm Screw (4)

3D Eye Shield Kit: CFV-

E30SK (1)

Instructions for Use of the

eye shield kit (1)

### Notes

Supplied Accessories

\*1

The values for dimensions are approximate.

# Related products









**NU-IP40D** 

Medical IP Converter (DVI/HDMI version)

NU-IP40S

Medical IP Converter

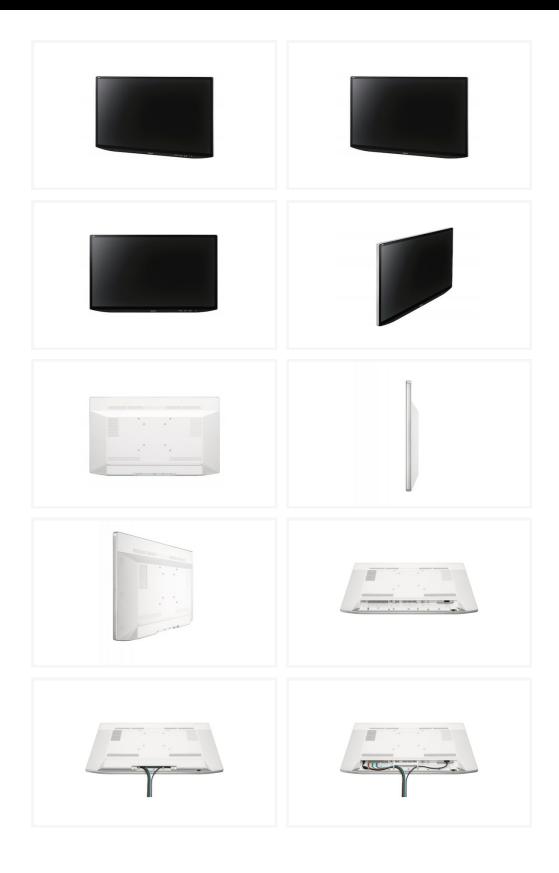
HVO-4000MT

4K 2D/3D medical recorder

### NUCLeUS

The smart digital imaging platform for medical environments

### Gallery



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