

LMD-X310MD

31-inch 4K 2D LCD medical monitor



Overview

View surgical images with the detail, clarity and colour of 4K

This 31-inch medical grade LCD monitor can display very high quality two-dimensional colour video images with 4K resolution from a wide range of medical imaging systems such as surgical endoscopes and laparoscopic camera systems. Its ergononic design is optimised for environments such as Operating Rooms, surgical centres, clinics and doctors' offices.

Offering four times the pixel count of Full HD, the LMD-X310MD 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 new panel design is teamed with powerful Sony digital signal processing to provide a wider colour gamut than ordinary LCD medical monitors.

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-X310MD features a slim, stylish design to allow easy handling, with a narrow bezel that maximises the compact monitor's screen area. Flat surfaces make disinfection simpler in modern clinical environments.

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

Note: 4K medical monitors are available in 31-inch and 55-inch sizes. At 31-inches, this screen is the largest size that will fit an endoscopy system (trolley) to provide a full 4K medium-sized panel. At 55-inches, this screen provides the ideal viewing distance when mounted in an operating theatre when installed facing the bed.

Features

4K Ultra HD resolution

The LMD-X310MD can display 4K images with four times the detail of Full HD.

High brightness anti-reflective OptiContrast Panel™

The 31-inch (789mm) 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.

Wider colour gamut

The advanced panel design and Sony signal processing ensure a wider colour gamut - as much as 43% greater than the BT.709 colour space.

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.

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.

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		
a-Si TFT Active Matrix LCD		
789.06 mm (31 1/8 inches)		
698.0 x 368.1 mm (27 1/2 x 14 1/2 inches)		
0.1704 x 0.1704 mm		
4096 x 2160 pixels		
17:9		
0.9999		
LED		
LCD with IPS		
770 cd/m2 (typical)		
1450:1		
Approx.1.073 billion colors		
89°/89°/89°/89° (typical)		

Gamma	1.8, 2.0, 2.2, 2.4, 2.6, DICOM, Highlight
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)
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

Genera

LCD monitor

- DC Input: 26 V, 6.9 A

Power Requirements	AC adaptor(AC-300MD): 245 (W) x 150 (L) x 58 (H) mm AC adaptor's AC IN: 100 V - 240 V, 50/60 Hz, 2.0A - 0.8 A
Power Consumption	LCD Monitor: Approx. 180 W (max.)
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	753.8 x 456.4 x 69.3 mm (Slimmest D 28mm) (29 3/4 x 18 x 2 3/4 inches)
Mass	Approx. 11.8 kg (Approx.

	26lb 0.23oz)
Mounting	100 x 100 mm VESA 100 x 200 mm VESA
Supplied Accessories	AC adaptor: AC-300MD (1) AC power cord (1) Instructions for Use (CD-ROM) (1) Abridged edition of Instructions for Use (1) AC power plug holder(2) Instructions for Use of the AC adaptor (1) Service Contact List (1) Warranty book (JP only) (1) M4x12mm Screw(4)

Notes

*1

The values for dimensions are approximate.

Related products









NU-IP40S

Medical IP Converter

MCC-1000MD

Two-piece Full HD

AC-300MD

Provides power for Sony LCD medical monitors **HVO- 4000MT**4K 2D/3D medical



surgical video camera







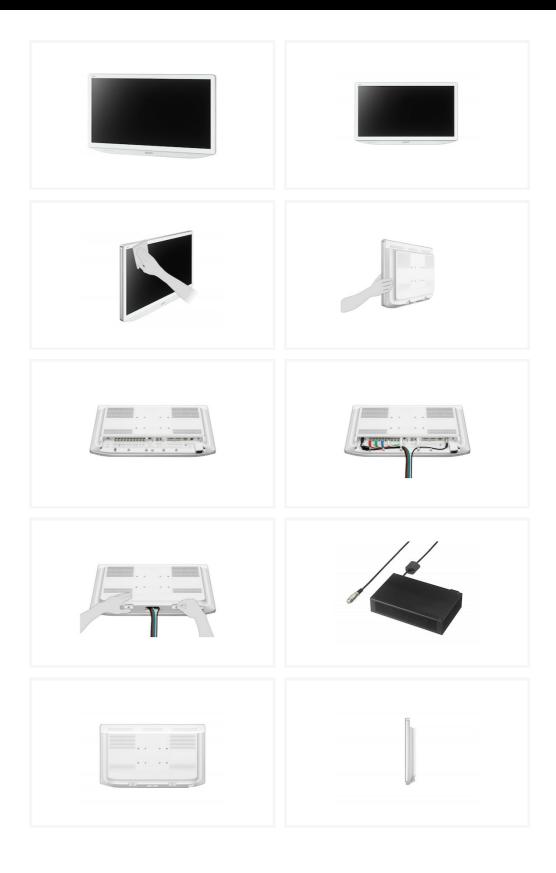
NUCLeUS

The smart digital imaging platform for medical environments

NUA-BK30

IP Converter Bracket for NU-IP3R

Gallery



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