SONY

LMD-X2710MD

27-inch 4K 2D LCD medical monitor with 12G-SDI



Overview

High picture quality and extensive inputs to support 4K/HD and HDR surgical imaging systems

The LMD-X2710MD is a 27-inch 4K LCD medical-grade surgical monitor intended for use in hospital operating rooms, surgical centres, clinics, doctors' offices and similar medical environments. Suitable for use in minimally invasive surgical procedures, it displays bright, high quality 2D colour images with true 4K resolution from endoscopic/laparoscopic cameras and other compatible medical imaging systems.

4K picture quality is enhanced further by HDR gamma support and a wide colour gamut for clearer viewing of fine details and subtle tonal differences. Thanks to Sony's unique technology, HD/SD resolution signals are automatically upscaled to a 4K view with four times the pixel count of Full HD. This makes the LMD-X2710MD ideal for users of HD surgical imaging systems who can enjoy improved image quality today while being ready for future upgrades to a 4K system.

Operation is simplified by the monitor's intuitive control panel and LED navigation. There's a wide range of input and output signal options; DP, HDMI, DVI, 12G/3G/HD/SD-SDI. For greater flexibility, images can be displayed from multiple sources quickly from the menu in a variety of display modes.

Compact and easy to clean, the ergonomic design of the LMD-X2710MD is ideal for integration in modern clinical environments. Installation is simplified with a choice of AC or DC powering options and neat cable management.

Features

Bright, high quality 4K images
The LMD-X2710MD displays finely-detailed 4K Ultra HD images, delivering exceptional picture quality plus high brightness for superior visibility in the Operating Room.

HD/SD to 4K upscaling
Sony's unique upscaling technology increases lower-resolution input signals to 4K resolution, offering a sharp, natural view with four times the pixel count of Full HD.

Wide colour gamut
The LMD-X2710MD is compliant with BT.2020 colour standards, allowing the monitor to accurately display a significantly wider range of colours than the BT.709 space.

HDR gamma support with HLG
When connected to a HLG (Hybrid Log-Gamma) input signal from a HLG compatible imaging system, the LMD-X2710MD can display HDR images, accurately reproducing an extended range of brightness levels, high contrast and rich colours without clipping white highlights or losing dark shadow details.

Compact and ergonomic with easy-clean design
The slim, compact LMD-X2710MD features an ergonomic, easy to hold design that allows simple adjustment of monitor position by hand. Hygiene is simplified by the edge-to-edge flush surface design that allows liquids and gels to be wiped easily off the LCD panel and controls.

Range of display modes
The LMD-X2710MD can display images from multiple sources in a variety of picture modes; side-by-side, picture-in-picture (PIP) and picture-out-picture (POP). Mirror and flip rotation modes can also be selected at the press of a button.

Easy-to-use control panel with LED lighting navigation and custom buttons
The intuitive, easy-to-use control panel features LED backlighting to simplify navigation, especially in dark environments. Frequently-used functions can be assigned to three custom buttons.

Auto signal detect and fail-safe modes
Auto input selection Mode 1 detects an input signal without the need to manually select the input. Mode 2 offers fail-safe operation if input signals are accidentally interrupted, automatically switching the monitor to a backup input if no signal input is detected.

Compact, practical design and easy cleaning
The narrow bezel achieves a greater screen area within the display's compact body. The slim and easy-to-hold design of the LMD-X2710MD simplifies user adjustment of the monitor position. The edge-to-edge flat surface makes it easier to wipe off liquids and gels from the LCD panel and control buttons, simplifying cleanliness and disinfection.

Choice of signal inputs/outputs
The monitor offers a variety of signal inputs and outputs to meet a wide range of user needs: DP, HDMI, DVI and 12G/3G/HD/SD-SDI.

Installation-friendly cabling
The monitor's signal connectors face downwards to simplify neat cable management. Single cable of 12G-SDI makes it far easier to handle.

Greater installation flexibility via direct AC input or AC adaptor
To suit different installation requirements, the monitor can be powered directly via its AC input, or using its DC input with an optional AC adaptor*.

* AC-300MD AC adaptor sold separately.

VESA Mounting
The VESA-mounting standard (100 x 100 mm) simplifies integration in a variety of medical installations, including medical carts or boom mounted articulating arms.

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 authorised dealer.

Specifications

Picture Performance	
LCD Panel	a-Si TFT Active Matrix LCD
Picture Size (Diagonal)	684 mm (26.93 inches)
Effective Picture Size	596.2 x 335.3 mm (23 1/2 x 13 1/4 inches)
Pixel pitch	0.15525 x 0.15525 mm

Picture Performance	
Resolution	3840 x 2160 pixels
Aspect Ratio	16:9
Pixel Efficiency	99.99%
Backlight	LED
Luminance (Panel Specification)	800 cd/m2 (typical)
Contrast Ratio	1000:1
Colors	Approx.1.07 billion colors
Viewing Angle (Panel Specification)	89°/89°/89°/89° (typical) (up/down/left/right, contrast > 10:1)
Gamma	1.8, 2.0, 2.2, 2.4, 2.6, DICOM, HLG

Input	
HDMI Input	HDMI connector (x1), HDCP1.4 correspondence
DVI-D Input	DVI-D connector (x1), TMDS single link
SDI Input	12G/3G/HD/SD-SDI connector, BNC type (x1)
Display Port	Display Port connector (x2),1.2, SST, HDCP1.3 correspondence
Serial Remote (LAN)	D-sub 9-pin (RS-232C) (x1), RJ-45 modular connector (ETHERNET) (x1)
Remote	Stereo mini jack (x1)
AC input	AC input connector (x1), 100 V to 240 V, 50/60 Hz
DC Input	DC input connector (x1), DC 26 V

Output	
DVI-D Output	DVI-D connector (x1)
SDI Output	12G/3G/HD/SD-SDI connector, BNC type (x1)
Display Port Output	Display Port connector (x1)
DC 5 V/ 12V Output	5V Output (x1) up to 2A, Round type pin (female) (x1) 12V Output (x1) up to 2.5A, Round type pin (female) (x1)

General	
Power Requirements AC IN	100 V - 240 V, 50/60 Hz, 1.5 A - 0.7 A

General	
Power Requirements DC IN	26 V, 5.2 A (Supplied from AC adaptor)
Power Consumption	Approx. 149 W (max.)
Operating Temperature	0°C to 35°C (32°F to 95°F)
Operating Humidity	30% to 85% (no condensation allowed)
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)*	658.8 x 426.8 x 80 mm (26 x 16 7/8 x 3 1/4 inches) 658.8 x 508.6 x 319 mm (26 x 20 1/8 x 12 5/8 inches) (with SU-600 optional stand)
Mass	Approx. 9.2 Kg (Approx. 20 lb 4.5 oz) (when the optional stand is not installed)
Mounting	100 x 100 mm VESA
Supplied Accessories	AC plug holder (x2) Before Using This Unit (x1) CD-ROM (including the Instructions for Use) (x1) Service Contact List (x1)
Notes	* The values for mass and dimensions are approximate. These products are distributed to US and EU as medical devices. They satisfy product safety standards (e.g. IEC 60601-1). For more details, please contact your nearest Sony sales office or an authorized dealer.

Related products



NUCLeUS

The smart digital imaging platform for medical environments



LMD-X2705MD

27-inch 4K 2D LCD medical monitor with 3G-SDI



MCC-1000MD

Two-piece Full HD surgical video camera

Gallery

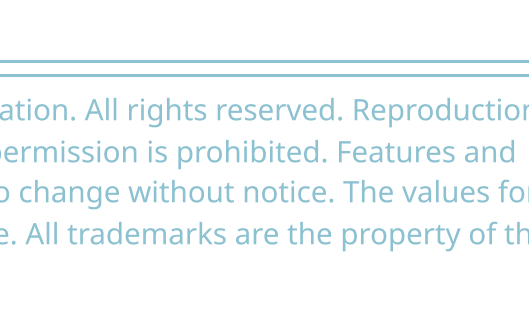












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