

LMD-X2705MD

27-inch (diag.) 27-inch 4K 2D
LCD medical monitor with
3G-SDI



Overview

4K image quality with intuitive operation and flexible installation

The LMD-X2705MD is a 27-inch (diag.) 4K LCD medical-grade surgical monitor intended for use in hospital operating rooms, surgical centers, clinics, doctors' offices, and similar medical environments. Suitable for use in minimally invasive surgical procedures, it displays bright, high-quality 2D color 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 color gamut for a clearer view of fine details and subtle tonal differences. Thanks to Sony's unique upscaling technology, HD/SD resolution signals are automatically upscaled to a 4K view with four times the pixel count of Full HD. HD system customers who invest in 4K displays today can not only achieve improved image quality, but they will also be ready to upgrade to a 4K system in the future.

It's so simple to operate, thanks to the monitor's intuitive control panel and LED navigation. There's a wide range of input signal options, including HDMI and Display Port,

and a choice of picture modes for greater flexibility in today's surgical applications and integrated OR environments.

The compact and easy-to-clean ergonomic design of the LMD-X2705MD is ideal for integration in modern clinical environments, while a choice of AC or DC powering options and neat cable management make installation simple.

Features

Bright, high-quality 4K images

The LMD-X2705MD displays finely detailed 4K Ultra HD images with a high brightness for superior visibility in the operating room.

4K upscaling

Lower-resolution input signals are upscaled to 4K resolution, offering a sharp, natural view with four times the pixel count of Full HD.

HDR Gamma support with HLG

When connected to an HLG (Hybrid Log-Gamma) input signal from an HLG-compatible imaging system, the LMD-X2705MD can display HDR images, accurately reproducing an extended range of brightness levels without clipping white highlights or losing dark shadow details.

Wide color gamut

The monitor is compliant with BT.2020 color standards, accurately displaying a significantly wider range of colors than the BT.709 space.

Intuitive operation

The monitor's intuitive control panel with LED navigation

allows easy operation, even in dark environments. Three custom buttons can be assigned to frequently used functions.

Compact and ergonomic with easy-clean design

The slim, compact LMD-X2705MD features an ergonomic, easy-to-hold design that allows simple adjustment of monitor position by hand. The edge-to-edge flush surface design allows for better hygiene, as liquids and gels can be easily wiped off the LCD panel and controls.

Wide range of inputs

The monitor accepts a wide range of signal inputs, including Display Port, HDMI, DVI, and 3G/HD/SD-SDI, with no need for additional input converters.

Auto Input Select

If signals from one input port are accidentally interrupted, the monitor's input switches automatically to the second port as a fail-safe measure.

Range of display modes

A variety of display modes including Mirror Image, Flip image, Picture-in-Picture, and Picture-out-Picture are instantly available at the touch of a button.

Greater installation flexibility

The monitor can be powered by either direct AC or an external AC adaptor. All signal and power connectors face downwards, simplifying neat installation and cabling.

VESA Mounting

The VESA-mounting standard (3 15/16 x 3 15/16 in) simplifies integration into a variety of medical environments.

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) | 684 mm (26.93 in) |
| Effective Picture Size (H x V) | 596.2 x 335.3, 684.0 mm (w/h, dia) 23 1/2 x 13 1/4, 27 in |
| Pixel pitch | 0.15525 x 0.15525 mm |
| Resolution | H 3,840 dots, V 2,160 lines |
| Aspect | 16:9 |
| Pixel Efficiency | 99.99% |
| Backlight | LED |
| Luminance (Panel Specification) | 800 cd/m ² (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

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|---------------------|--|
| HDMI Input | HDMI connector (x1) HDMI 2.0b, HDCP1.4 correspondence |
| DVI-D Input | DVI-D connector (x1) TMDS single link |
| SDI Input | 3G/HD/SD-SDI input 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

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|--------------|------------------------|
| DVI-D Output | DVI-D connector (x1) |
| | 3G/HD/SD-SDI connector |

| | |
|---------------------|------------------------------|
| SDI Output | BNC type (x1) |
| Display Port Output | Display Port connector (x1) |
| DC 5 V Output | 5 V Output (x1) up to 2 A |
| DC 12 V Output | 12 V Output (x1) up to 2.5 A |

General

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|--------------------------------------|--|
| Power Requirements | AC IN: 100 V to 240 V, 50/60 Hz, 1.5 A to 0.7 A 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 |
| | 658.8 x 426.8 x 80 mm 658.8 x 508.6 x 319 |

| | |
|--------------------------|---|
| Dimensions (W x H x D) * | mm (with SU-600 optional stand) 26 x 16 7/8 x 3 1/4 in 26 x 20 1/8 x 12 5/8 in (with SU-600 optional stand) |
| Mass | Approx. 8.8 kg (when the optional stand is not installed) Approx. 19 lb 6.4 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) |
| Optional Accessories | AC adaptor AC-300MD Monitor stand SU-600MD Foot switch FS-24 |
| *1 | The values for dimensions are approximate. |

Related products



AC-300MD

Provides power for Sony LCD medical monitors



NUCLEUS

The smart digital imaging platform for medical environments



LMD-X2710MD

27-inch (diag.) 27-inch 4K 2D LCD medical monitor with 12G-SDI

Gallery

