

# SONY



**LMD-43M1MD**  
**LMD-32M1MD**  
**LMD-27M1MD**

LCD Monitor



Backlight Master Drive

# New Standard of Brightness



- **Sony's advanced Local Dimming Technology (Backlight Master Drive)** produces stunning brightness, deep blacks and high contrast
- **Advanced Anti-Reflection Technology** reduces reflection and minimises glare
- **Incredible Peak luminance** : 2,000 cd/m<sup>2</sup> (43M1MD), 1,850 cd/m<sup>2</sup> (32M1MD) and 2,250 cd/m<sup>2</sup> (27M1MD), Contrast ratio : 1,000,000 : 1
- **4K (3840 x 2160 pixels)**, 16 : 9 aspect, 42.5-inch screen\* (43M1MD), 31.5-inch screen\* (32M1MD), 27-inch screen\* (27M1MD)
- LMD-43M1MD, LMD-32M1MD and LMD-27M1MD are certified with VESA DisplayHDR 1000



\* 1079.9 mm (43M1MD), 800.1 mm (32M1MD), 684.7 mm (27M1MD) viewable area, measured diagonally

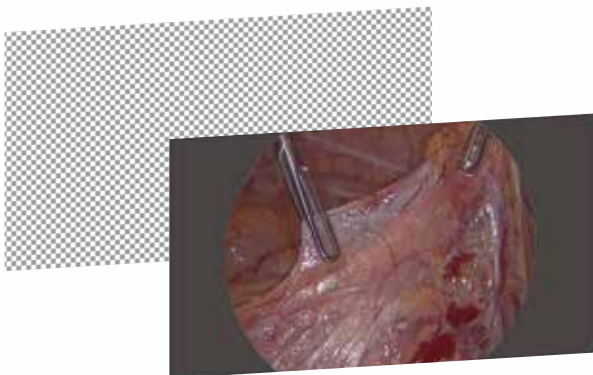
## High Picture Quality

### Experience Exceptional Clarity and Visual Detail

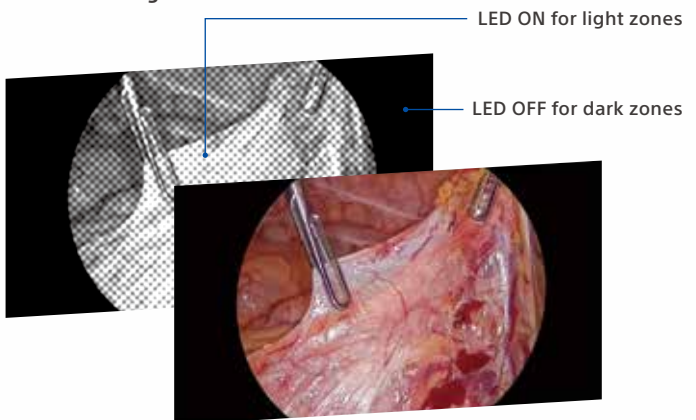
Sony's advanced **Local Dimming Technology (Backlight Master Drive)** precisely controls the panel backlight's dense array of mini LEDs to ensure stunning brightness and high contrast. LED backlighting sources are independently controlled in light and dark zones of the image. This significantly improves black reproduction by turning off LEDs, simultaneously using saved energy to boost peak brightness in highlight areas. This allows the LMD-43M1MD, LMD-32M1MD and LMD-27M1MD to achieve a peak brightness exceeding 2,000 cd/m<sup>2</sup> (43M1MD), 1,850 cd/m<sup>2</sup> (32M1MD) and 2,250 cd/m<sup>2</sup> (27M1MD), and a contrast ratio of 1,000,000:1.

#### Local Dimming OFF

All LED ON



#### Local Dimming ON



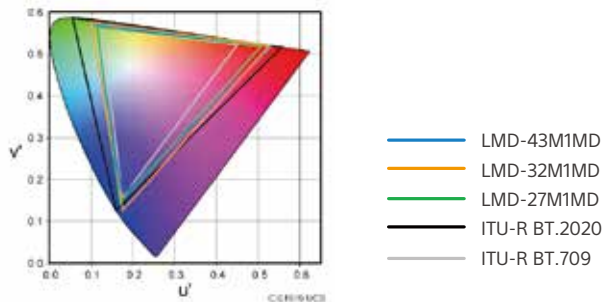
Backlight Master Drive

The images are simulated for illustrative purposes.

# High Picture Quality

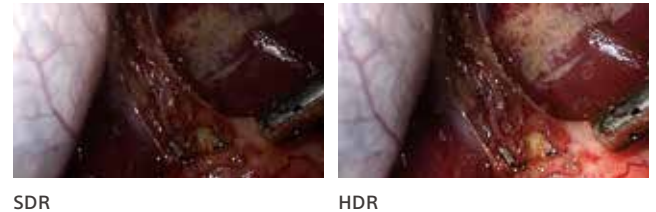
## Wide Colour Gamut for Realistic Visualisation

The LCD and signal processing technology employed in the LMD-43M1MD, LMD-32M1MD and LMD-27M1MD achieves a wide colour gamut conforming to **ITU-R recommendation BT.2020**. This allows for superior colour reproduction to achieve more realistic visualisation of surgical images.



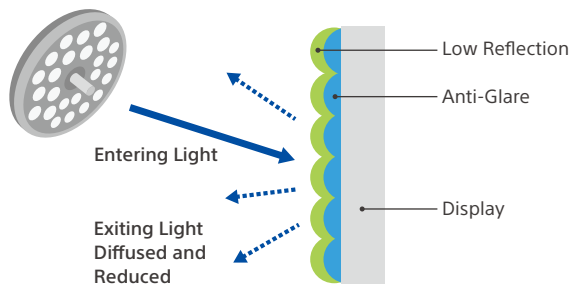
## Clarity in Light and Dark Areas

**HDR technology** offers surgeons a clearer view by visualising a wider range of brightness levels within the same scene, minimising the loss of fine detail in shadowed areas and overexposed highlights. The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD can reproduce greater details enhanced by HDR when receiving and selecting HLG (Hybrid Log-Gamma) or PQ (Perceptual Quantization) signals.



## Minimised Screen Reflection in Brightly-lit Operating Rooms

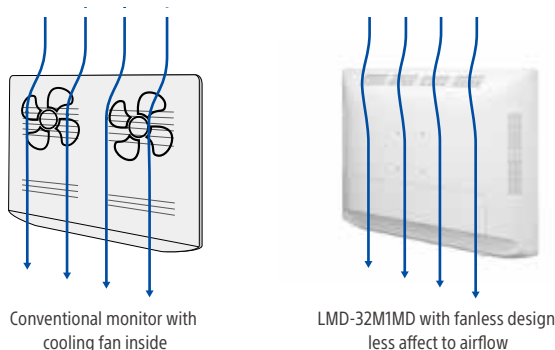
**Sony's unique Anti-Reflection Technology** featured in the LMD-43M1MD, LMD-32M1MD and LMD-27M1MD combines two reflection suppression technologies. Low Reflection reduces the amount of reflected light and minimises reflection from external light sources. This is reduced further by an Anti-Glare surface treatment that diffuses incoming light. By creating a slightly rough surface on the display, this Anti-Glare surface maximises the diffusion of incoming light and minimises reflections. By combining these advanced surface treatment technologies, the LMD-43M1MD, LMD-32M1MD and LMD-27M1MD achieve a balance of diffusing incoming light, reducing reflections and minimising glare – ensuring extremely high contrast images with lifelike color reproduction.



## Advanced Features with User-Friendliness

### Fanless Design Minimises Airflow Disruption

The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD feature a fanless cooling system that significantly minimises unwanted interference with ventilation airflow around the monitor.



### Intuitive Navigation and Custom Buttons

The monitor's LED backlighting selectively illuminates active control buttons on the front panel, offering clear guidance to clinical staff even in dark environments. In addition, frequently used functions can be assigned to three custom buttons on the front panel, allowing quick access and supporting enhanced workflow efficiency.



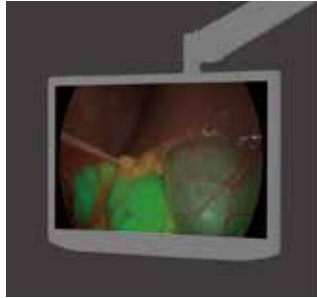
# Advanced Features with User-Friendliness

## Auto Panel Brightness Adjustment

The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD are equipped with a **built-in light sensor** that automatically adjusts panel brightness to match changing ambient lighting conditions in the Operating Room. This ensures visibility even in cases during procedures like ICG navigation surgery, where darker room lighting is required.



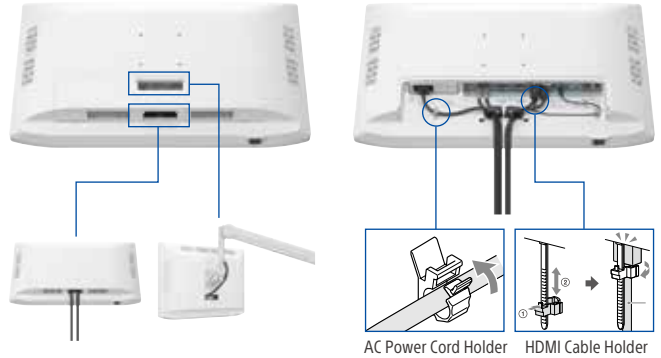
Normal lighting condition



Dark lighting condition  
(The panel brightness is adjusted)

## Installation-Friendly Cabling

Two cable access points with integral covers broaden installation options with easy cable management. AC power and HDMI cable holders ensure placement of cables, helping to prevent accidental disconnections.

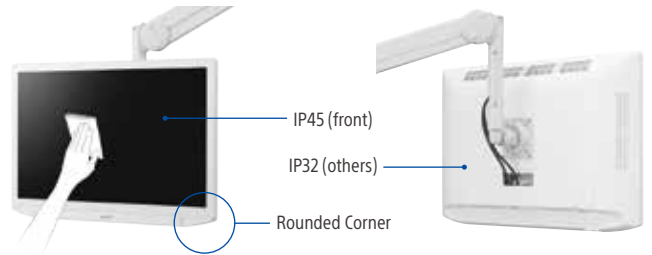


## Easy to Wipe Down for Cleanliness

The monitor's smooth surface and streamlined back shape simplify cleaning of the entire monitor.

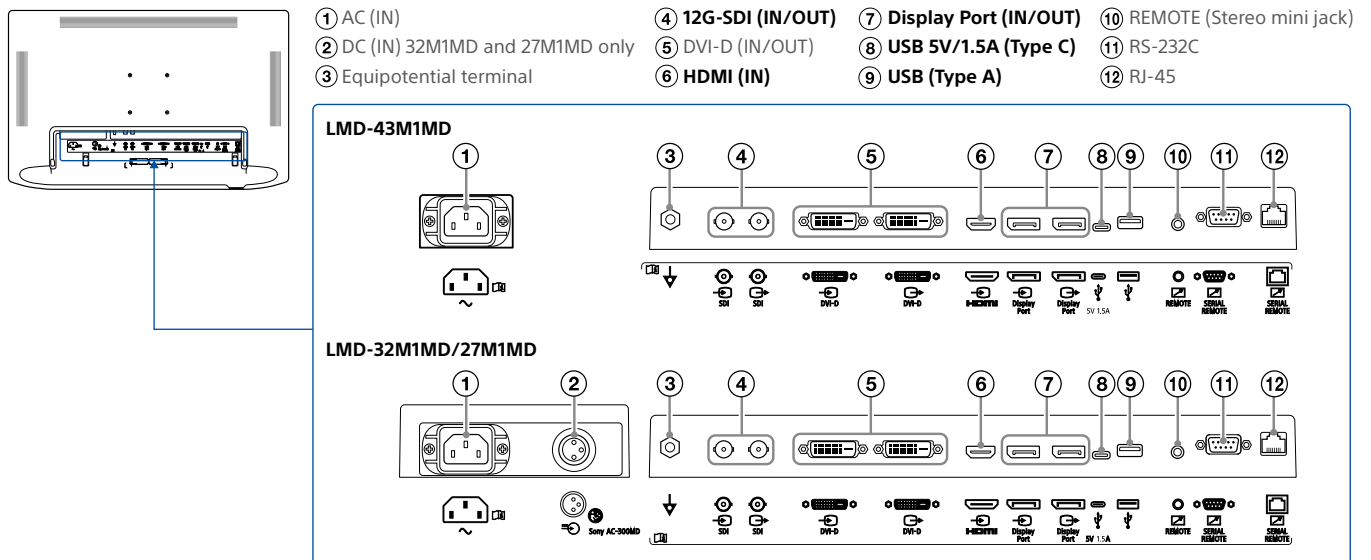
## Suitable Design for Medical Facilities

Simple integration in the OR is assisted by the monitor's slim bezel and rounded corners. The front of the LMD-43M1MD, LMD-32M1MD and LMD-27M1MD carries a dustproof and waterproof rating of IP45, with an IP32 rating for the entire monitor.



## Versatile Connectivity for Diverse Modalities and Equipment

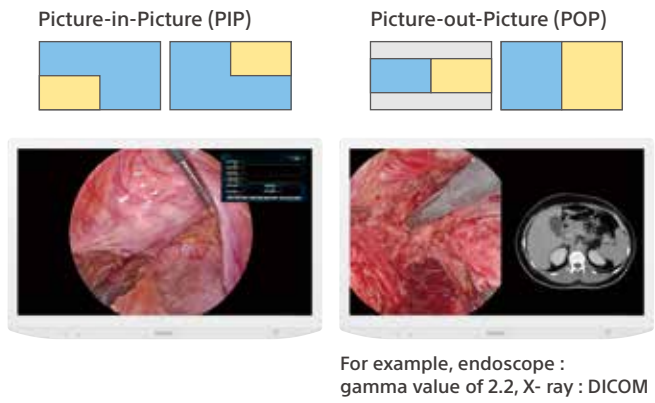
The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD offer a comprehensive array of input/output connectors, including **12G-SDI**, **HDMI** and **Display Port**. A **USB 5V/1.5A (Type C) port** provides power to connected external equipment. There's also a **USB (Type A) port** that can be used to export/import monitor setting information from one monitor to another via the USB device.



# Advanced Features with User-Friendliness

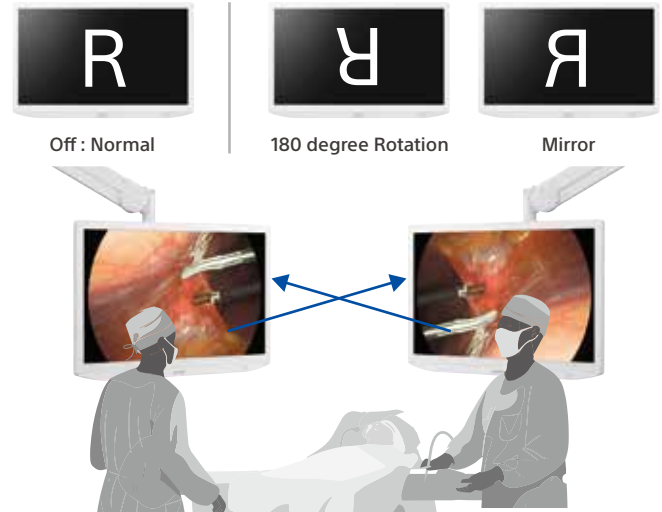
## Multi-Image Display (PIP/POP)

The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD offer a two-screen PIP/POP display function, allowing display of multi-information on one screen. Each input source can be displayed separately, with individual gamma values assigned.



## Optimal Viewing Angles

The displayed image can be rotated 180 degrees or flipped horizontally. This ensures optimal viewing for surgeons and clinical teams in the OR, regardless of the orientation of a connected endoscopic camera.



## Simplified Configuration of Multiple Monitors

Installing multiple monitors can be a hassle, but now a USB device can simplify the process. The USB (Type A) port allows for monitor configuration settings to be stored to an attached USB device. This stored setting information can then be easily applied to other monitors via the USB device.



# Environmentally Conscious Efforts

## Reduce Plastic Packaging to -86% (32M1MD) and -84% (27M1MD)

The packaging of LMD-43M1MD, LMD-32M1MD and LMD-27M1MD eliminate expanded polystyrene form, replacing it with molded pulp materials. The monitor is also supplied in a covered non-woven bag made mainly from plant cellulose. This reduces the amount of virgin plastic used for packaging by approximately 86% (32M1MD) and 84% (27M1MD) compared with the previous packaging\*1.

\*1. Compared with the LMD-X3200MD (32M1MD), introduced in 2020, and the LMD-X2710MD (27M1MD), introduced in 2022.



\* LMD-32M1MD

## Power Saving

The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD are equipped with the Sleep Mode function that contributes to a more energy-efficient use. When it is set to ON, the monitor enters into Power Saving mode by turning off the backlight if there is no input signal from the selected connector for more than 1 minute.



The monitor turns off the backlight if no signal for more than 1 minute

