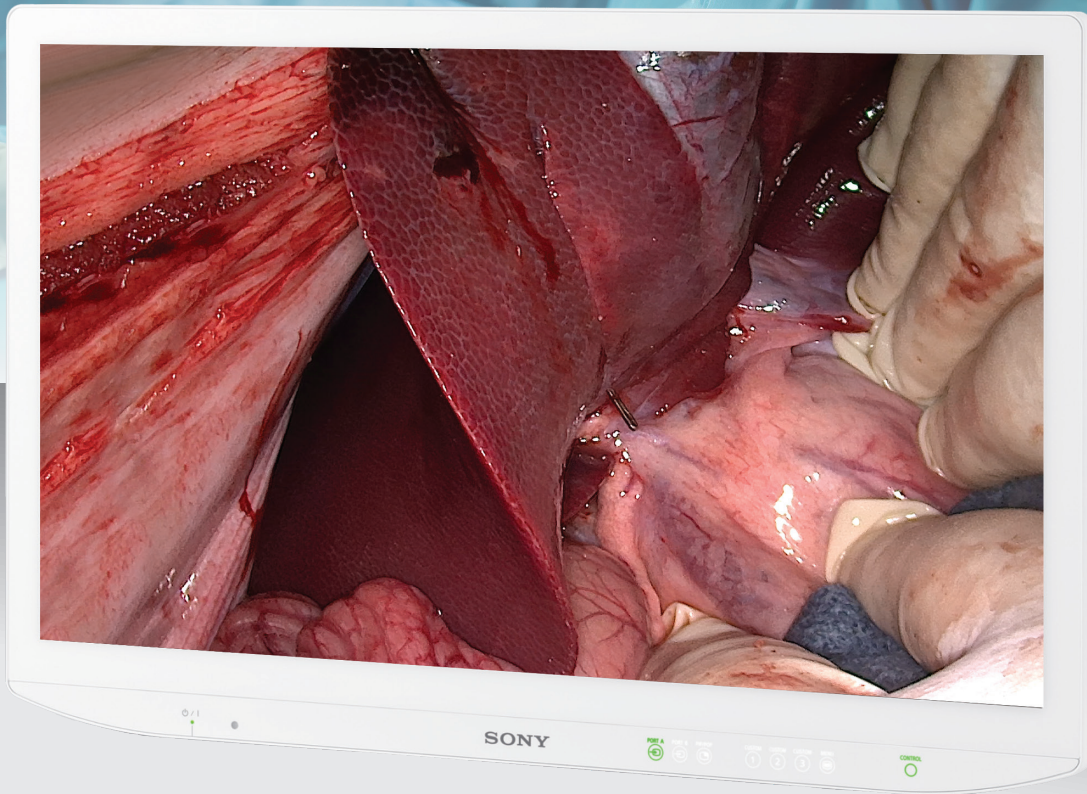


SONY



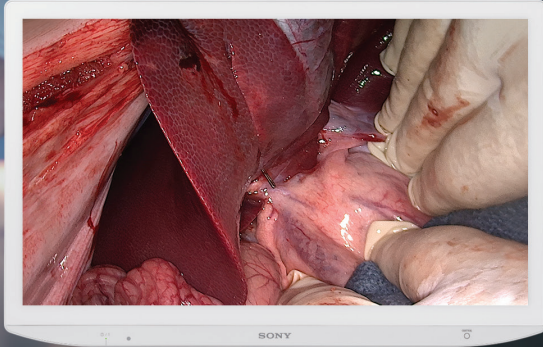
THE NEW AGE OF SURGERY

LMD-32M1MD | 32-inch 4K HDR Mini-LED surgical display



Backlight Master Drive

New Era in Surgical Imaging



- Powerful peak brightness exceeding 1,850 cd/m² and contrast ratio of 1,000,000:1 for exceptional visual detail and clarity.
- Sony's Advanced Local Dimming Technology (Backlight Master Drive) ensures exceptional accuracy in bright and dark areas.
- Deep coverage of the BT.2020 Wide Color Gamut for incredible color precision.
- Unique Anti-Reflection Technology to provide clearer view even in brightly lit ORs.
- World's first* VESA® Certified DisplayHDR™ 1000 surgical display confirms monitor meets specific performance levels to produce vivid and lifelike content.
- Numerous inputs and simple USB configuration across multiple displays for easy integration
- Fan-less design minimizes unwanted airflow disruption in the OR.

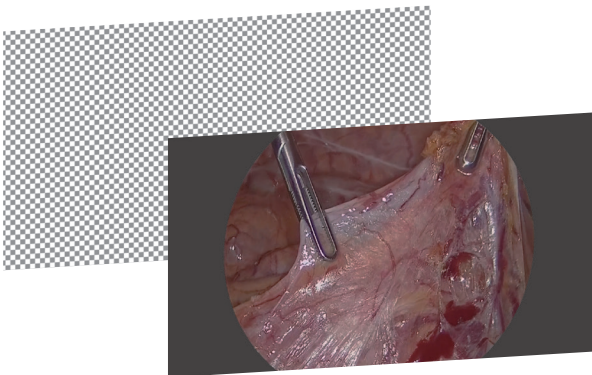
Exceptional Picture Quality

Experience Outstanding Clarity and Visual Detail

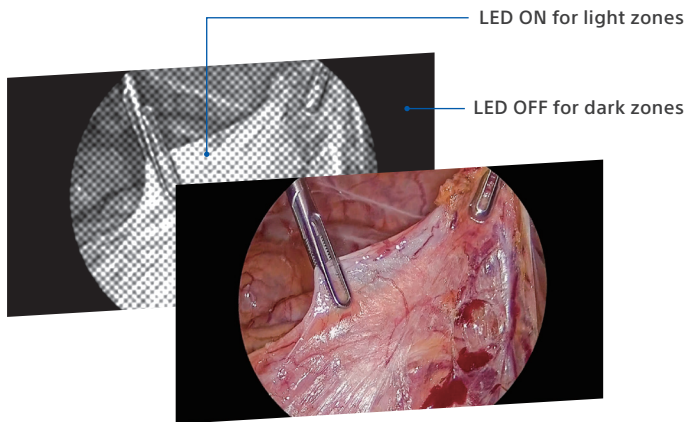
Sony's advanced **Local Dimming Technology (Backlight Master Drive)** precisely controls the panel backlight's dense array of mini LEDs to ensure stunning brightness and high contrast. LED backlighting sources are independently controlled in light and dark zones of the image. This significantly improves black reproduction by turning off LEDs, simultaneously using saved energy to boost peak brightness in highlight areas. This allows the LMD-32M1MD to achieve a peak brightness exceeding 1,850 cd/m², and a contrast ratio of 1,000,000:1.

Local Dimming OFF

All LED ON



Local Dimming ON



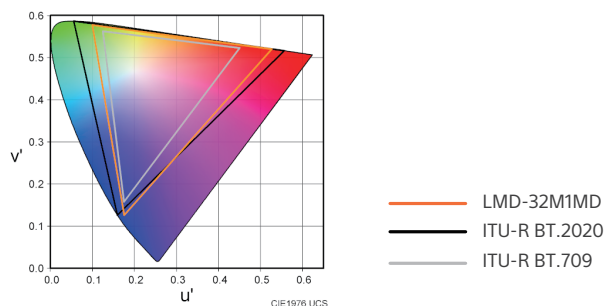
Backlight Master Drive

The images are simulated for illustrative purposes.

Exceptional Picture Quality

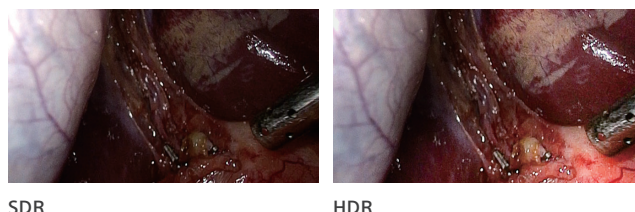
Wide Color Gamut for Realistic Visualisation

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



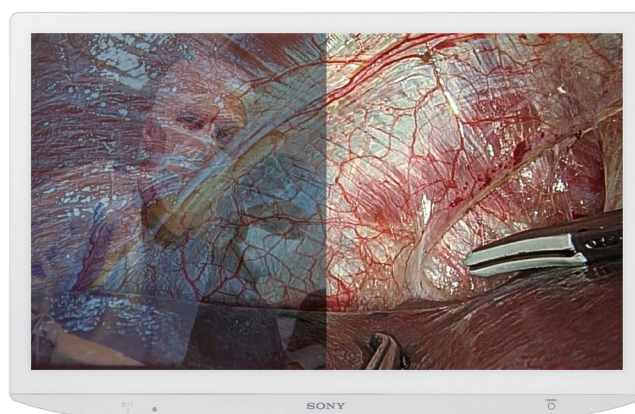
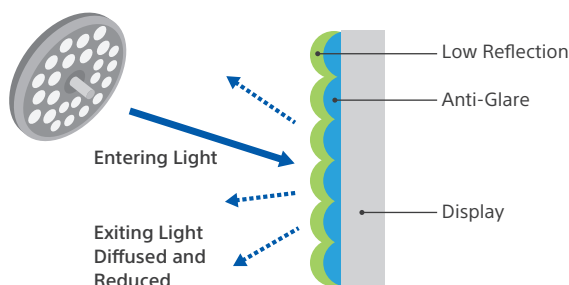
Clarity in Light and Dark Areas

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-32M1MD can reproduce greater details enhanced by HDR when receiving and selecting HLG (Hybrid Log-Gamma) or PQ (Perceptual Quantization) signals.



Minimized Screen Reflection in Brightly-lit Operating Rooms

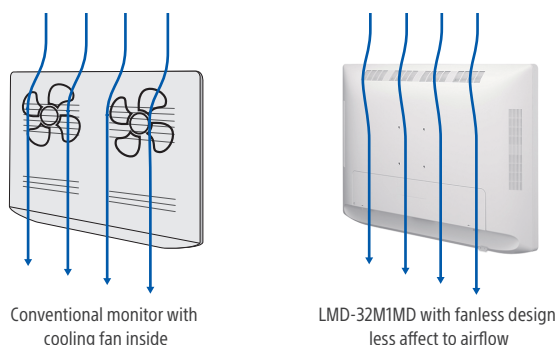
Sony's unique Anti-Reflection Technology featured in the LMD-32M1MD combines two reflection suppression technologies. Low Reflection reduces the amount of reflected light and minimizes reflection from external light sources. This is reduced further by an Anti-Glare surface treatment that diffuses incoming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



User-Friendly Advanced Features

Fanless Design Minimizes Airflow Disruption

The LMD-32M1MD features a fanless cooling design that significantly minimizes unwanted airflow disruption in the OR.



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.



The images are simulated for illustrative purposes.

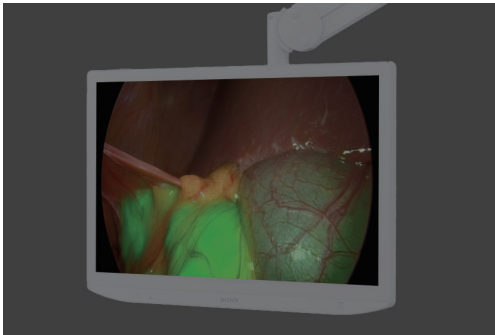
User-Friendly Advanced Features

Auto Panel Brightness Adjustment

The LMD-32M1MD is 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



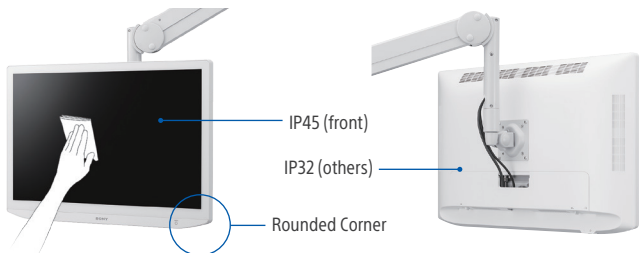
Dark lighting condition
(The panel brightness is adjusted)

Smooth Surface for Easy Cleaning

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

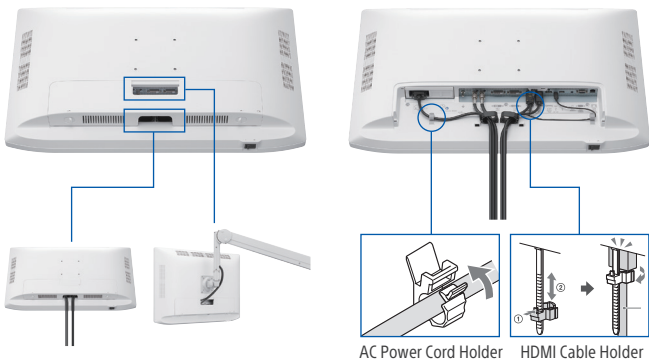
Designed for Medical Facilities

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



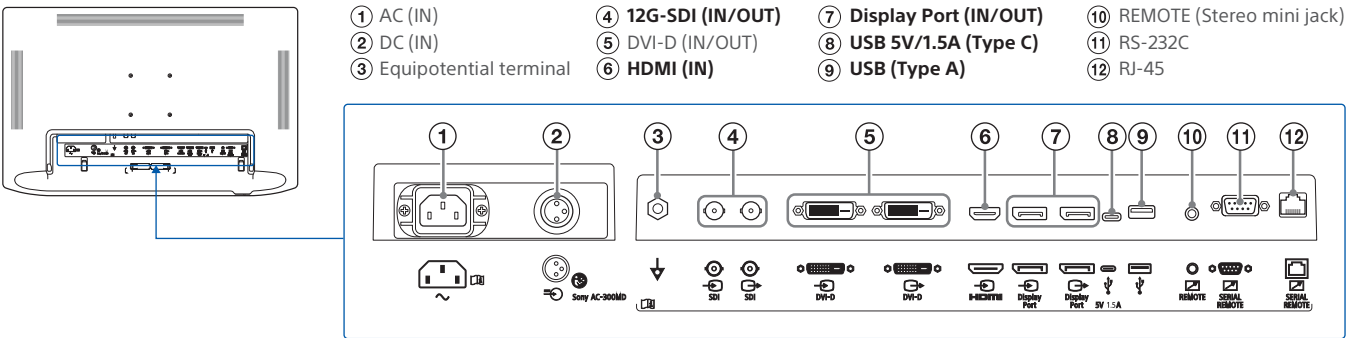
Installation-Friendly Cabling

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.



Versatile Connectivity for Diverse Modalities and Equipment

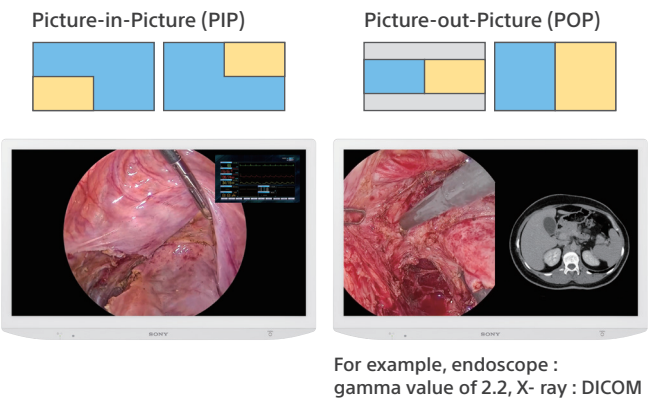
The LMD-32M1MD offers a comprehensive array of input/output connectors, including **12G-SDI**, **HDMI** and **Display Port**. A **USB 5V/1.5A (Type C)** port provides power to connected external equipment. There's also a **USB (Type A)** port that can be used to export/import monitor setting information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



User-Friendly Advanced Features

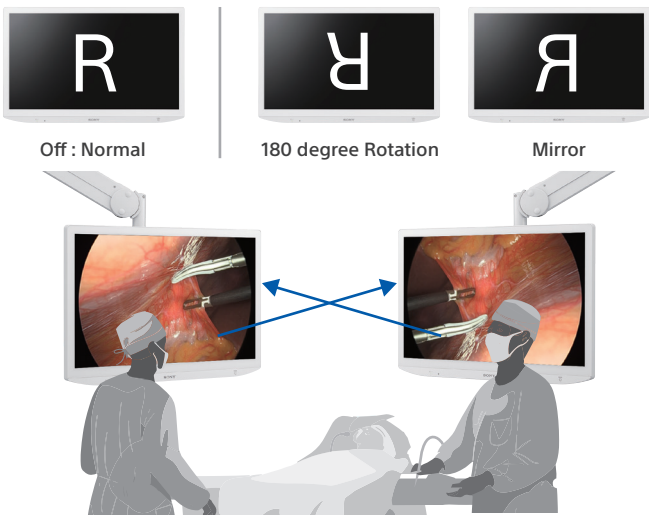
Multi-Image Display (PIP/POP)

The LMD-32M1MD offers 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.



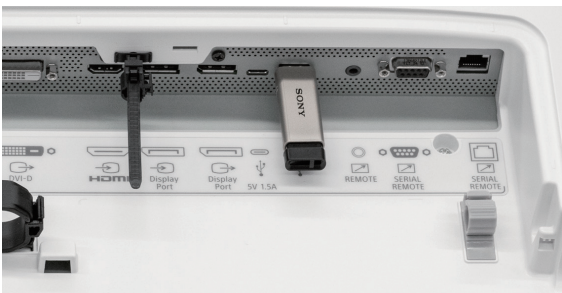
Optimal Viewing Angles

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.

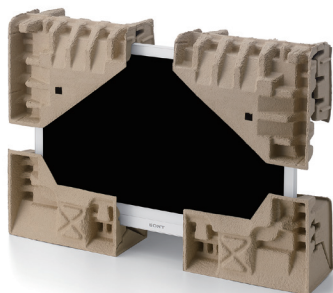


Environmentally Conscious Efforts

Reduction of Plastic Packaging

The packaging of LMD-32M1MD eliminates 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% compared with the previous packaging*¹.

*¹. Compared with the LMD-X3200MD, introduced in 2020.



Power Saving

LMD-32M1MD is 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 is detected for more than 1 minute.

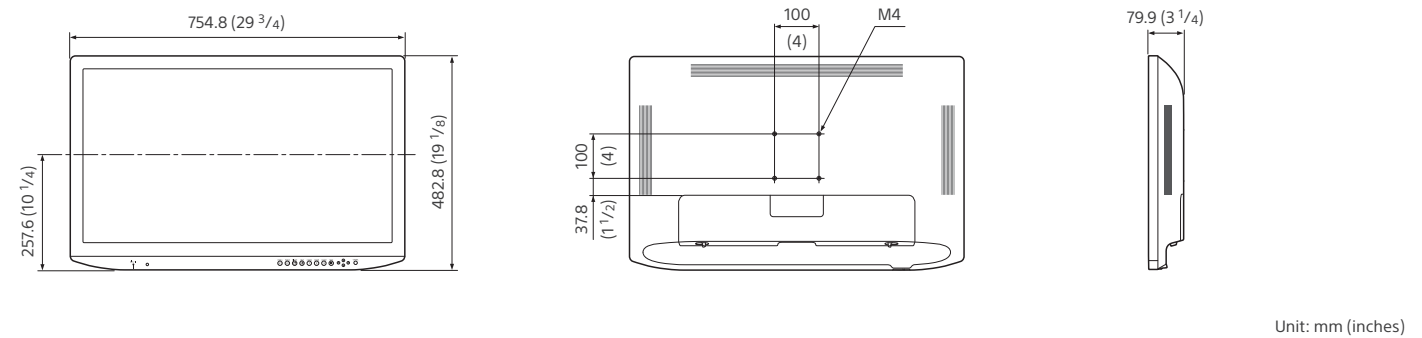
Specifications

Picture Performance	
Panel	TFT Active Matrix LCD
Picture Size (Diagonal)	800.0 mm (31 1/2 inches)
Effective Picture Size (H x V)	697.3 x 392.2 mm (27 1/2 x 15 1/2 inches)
Pixel Pitch	0.181 x 0.181 mm (0.00713 x 0.00713 inches)
Resolution (H x V)	3,840 x 2,160 pixels
Aspect	16:9
Pixel Efficiency	99.99%
Backlight	LED
Panel Technology	LCD with IPS
Luminance (Panel Specification)	1850 cd/m ² (Typical, Peak)
Contrast Ratio	1,000,000:1 (Typical)
Colors	10 bit colors (1,073,741,824)
Panel Frame Rate	50/60 Hz
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, PQ
Input	
HDMI Input	HDMI (x1) (HDCP 2.3 correspondence)
DVI-D Input	DVI-D (x1) (TMDS single link, HDCP 1.4 correspondence)
SDI Input	BNC (x1) 12G/6G/3G/HD/SD-SDI
Display Port	Display Port (x1) (SST HDCP 1.3 correspondence)
Serial Remote (LAN)	D-sub 9-pin (RS-232C) (x1), RJ-45 (ETHERNET) (x1)
Remote	Stereo mini jack (x1)
AC Input	AC input connector (x1) 100 V - 240 V, 50/60 Hz
DC Input	DC input connector (x1) DC 26 V
Output	
DVI-D Output	DVI-D (x1) (TMDS single link)
SDI Output	BNC (x1) (Active-through)
Display Port Output	Display Port (x1) (SST HDCP 1.3 correspondence)
DC 5 V Output	USB Type C (x1) 5 V 1.5 A (max.)

Input/Output	
USB	USB Type A (x1) Hi-Speed USB (USB 2.0 compliant) For USB memory
General	
Power Requirements	DC IN: 26 V, 5.8 A (Supplied from AC adaptor)
	AC IN: 100 V - 240 V, 50/60 Hz, 1.7 A - 0.7 A
Power Consumption	Approx. 165 W (max.)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	30% to 85% (no condensation)
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)	754.8 x 482.8 x 79.9 mm (29 3/4 x 19 1/8 x 3 1/4 inches)
Mass	Approx. 11.2 kg (Approx. 24 lb 11 oz)
Mounting (W x H)	100 x 100 mm
IP Code	IP45 (front) / IP32 (others)
Supplied Accessories	AC power cord (x1) Plug holder for the AC power cord (x2) Before Using This Unit (x1) CD-ROM (including the Instructions for Use) (x1) Instructions for Use (Chinese) (x2) Service Contact List (x1) Information for Customers in Europe (x1) M4 x12mm Screw (x4)* * Already attached to the rear panel
Optional Accessories	AC adaptor AC-300MD Monitor stand SU-600MD IP Converter Bracket: NUA-BK30

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.

Dimensions



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