

SONY



THE NEW AGE OF SURGERY

LMD-43M1MD

LMD-32M1MD

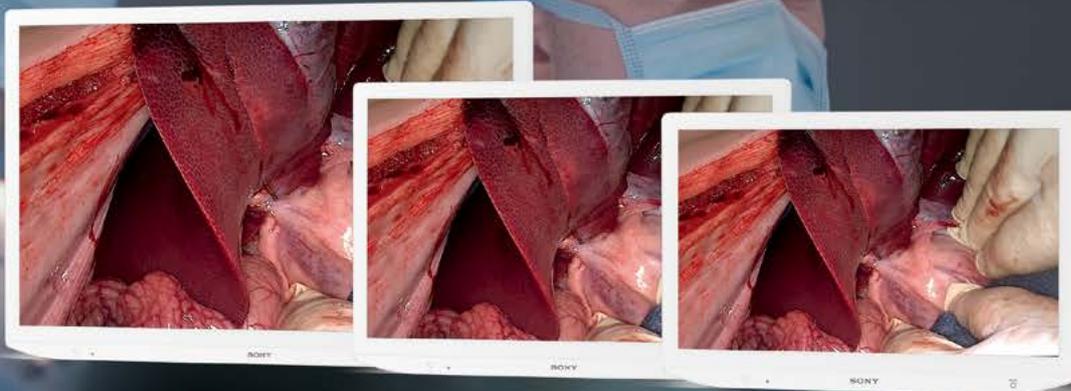
LMD-27M1MD

43-inch, 32-inch, 27-inch
4K HDR Mini-LED Surgical Displays



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 minimizes glare
- **Incredible Peak luminance** : 2,000 cd/m² (43M1MD), 1,850 cd/m² (32M1MD) and 2,250 cd/m² (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

Exceptional Picture Quality

Experience Exceptional Picture Quality and Visual Detail

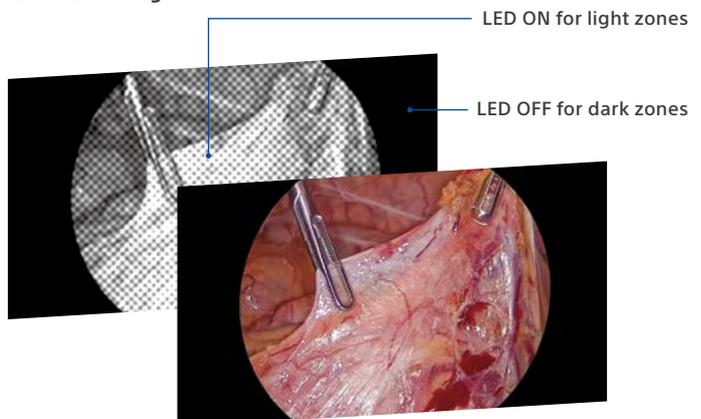
Sony's advanced **Local Dimming Technology (Backlight Master Drive)** precisely controls the panel backlight's dense array of mini LEDs to ensure stunning brightness and high contrast. LED backlighting sources are independently controlled in light and dark zones of the image. This significantly improves 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/m² (43M1MD), 1,850 cd/m² (32M1MD) and 2,250 cd/m² (27M1MD), and a contrast ratio of 1,000,000:1.

Local Dimming OFF

All LED ON



Local Dimming ON



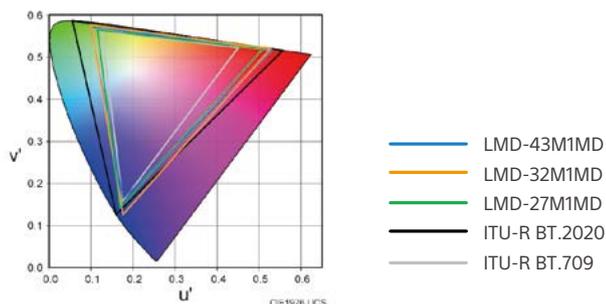
Backlight Master Drive

The images are simulated for illustrative purposes.

Exceptional Picture Quality

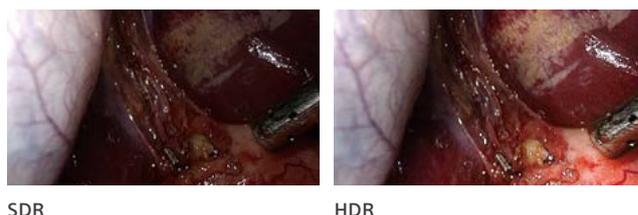
Wide Colour Gamut for Realistic Visualisation

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 color reproduction to achieve more realistic visualisation of surgical images.



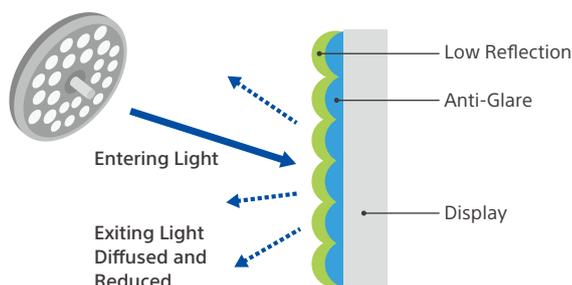
Clarity in Light and Dark Areas

HDR technology offers surgeons a clearer view by visualising a wider range of brightness levels within the same scene, minimizing 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.



Minimized Screen Reflection in Brightly-lit Operating Rooms

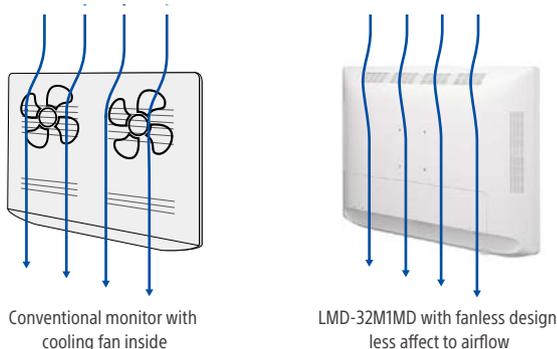
Sony's unique Anti-Reflection Technology featured in the LMD-43M1MD, LMD-32M1MD and LMD-27M1MD combines two reflection suppression technologies. Low Reflection reduces the amount of reflected light and minimizes reflection from external light sources. This is reduced further by an Anti-Glare surface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



User-Friendly Advanced Features

Fanless Design Minimizes Airflow Disruption

The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD feature a fanless cooling system that significantly minimizes unwanted airflow disruption in the OR.



Intuitive Navigation and Custom Buttons

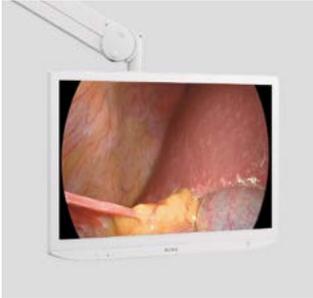
The monitor's LED backlighting selectively illuminates active control buttons on the front panel, offering clear guidance to clinical staff even in dark environments. In addition, frequently used functions can be assigned to three custom buttons on the front panel, allowing quick access and supporting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



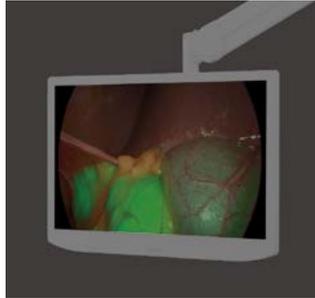
User-Friendly Advanced Features

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.



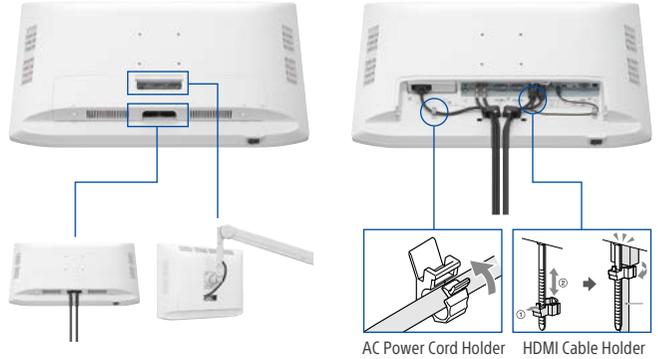
Normal lighting condition



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.



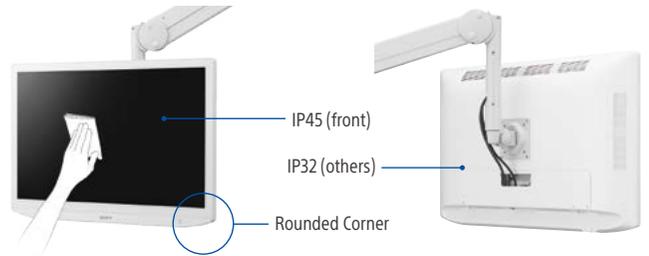
AC Power Cord Holder HDMI Cable Holder

Easy to Wipe Down for Cleanliness

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

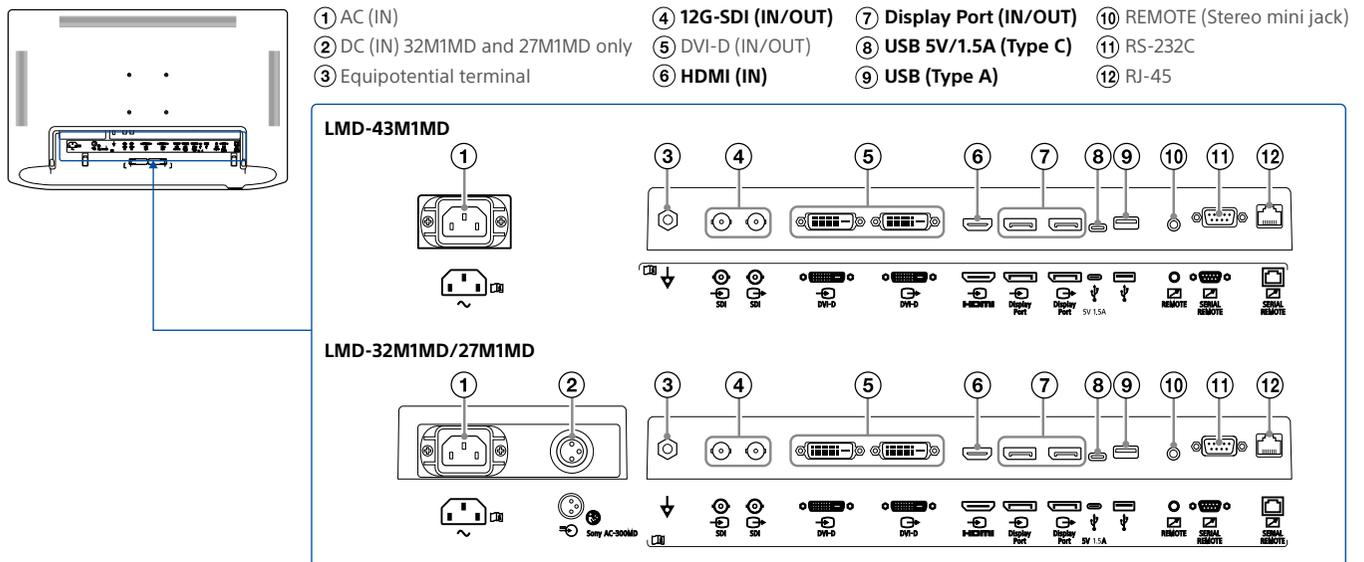
Designed for Medical Facilities

Simple integration in the OR is assisted by the monitor's slim bezel and rounded corners. The front of the LMD-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

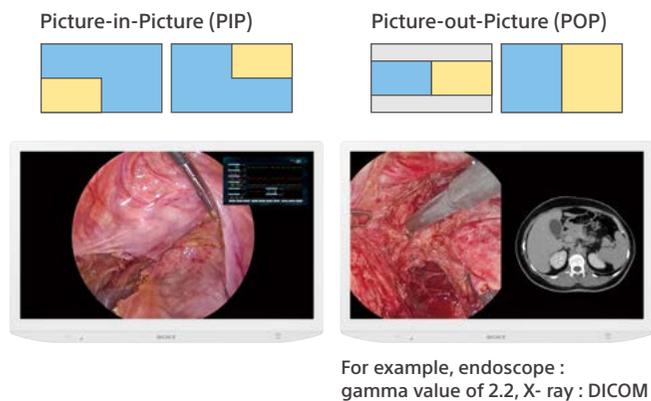
The LMD-43M1MD, LMD-32M1MD and LMD-27M1MD offer a comprehensive array of input/output connectors, including **12G-SDI**, **HDMI** and **Display Port**. A **USB 5V/1.5A (Type C)** port provides power to connected external equipment. There's also a **USB (Type A)** port that can be used to export/import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



User-Friendly Advanced Features

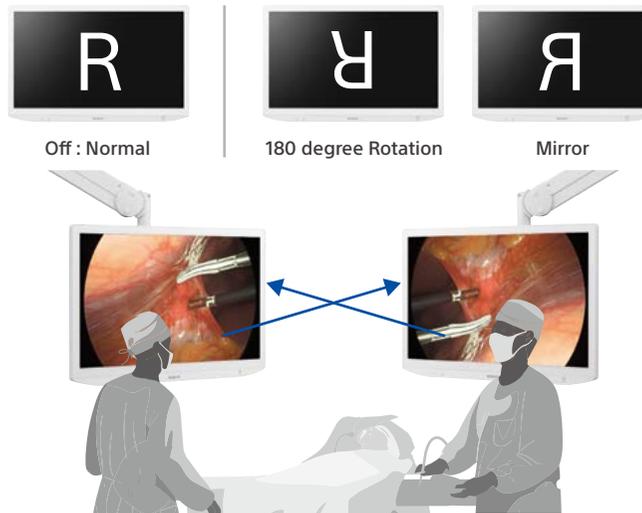
Multi-Image Display (PIP/POP)

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.

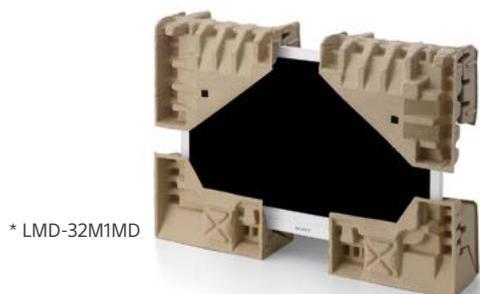


Environmentally Conscious Efforts

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.



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.

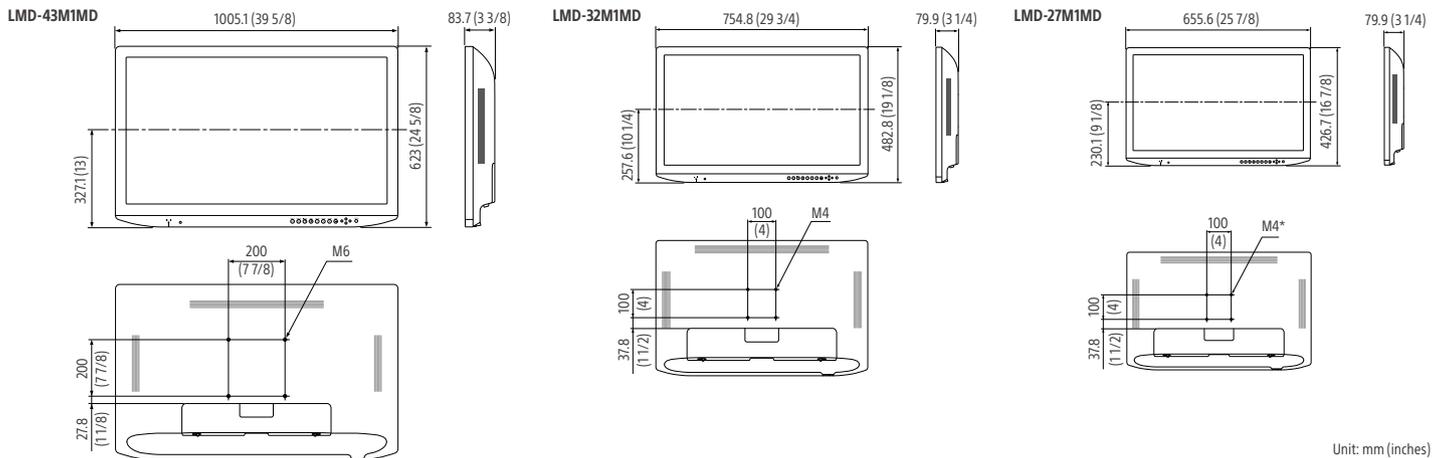


The monitor turns off the backlight if no signal for more than 1 minute

Specifications

	LMD-43M1MD	LMD-32M1MD	LMD-27M1MD
Picture Performance			
Panel	TFT Active Matrix LCD		
Picture Size (Diagonal)	1079.9 mm (42 5/8 inches)	800.1 mm (31 1/2 inches)	684.7 mm (27 inches)
Effective Picture Size (H x V)	941.2 x 529.4 mm (37 1/8 x 20 7/8 inches)	697.3 x 392.2 mm (27 1/2 x 15 1/2 inches)	596.7 x 335.7 mm (23 1/2 x 13 1/4 inches)
Pixel pitch	0.2451 x 0.2451 mm (0.00965 x 0.00965 inches)	0.181 x 0.181 mm (0.00713 x 0.00713 inches)	0.1554 x 0.1554 mm (0.00612 x 0.00612 inches)
Resolution (H x V)	3,840 x 2,160 pixels		
Aspect	16:9		
Pixel Efficiency	99.99%		
Backlight	Mini LED		
Panel Technology	LCD with IPS		
Luminance (Panel Specification)	2000cd/m ² (Typical, Peak)	1850cd/m ² (Typical, Peak)	2250cd/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	Type A (x1), Hi-Speed USB (USB 2.0 compliant), For USB memory		
General			
Power Requirements	AC IN: 100 V - 240 V, 50/60 Hz, 2.1 A - 0.9 A	DC IN: 26 V, 5.8 A (max.) (Supplied from AC adaptor) AC IN: 100 V - 240 V, 50/60 Hz, 1.7 A - 0.7 A	DC IN: 26 V, 5.4 A (max.) (Supplied from AC adaptor) AC IN: 100 V - 240 V, 50/60 Hz, 1.3 A - 0.6 A
Power Consumption	Approx. 203 W (max.)	Approx. 165 W (max.)	Approx. 126 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)	1005.1 x 623.0 x 83.7 mm (39 5/8 x 24 5/8 x 3 3/8 inches)	754.8 x 482.8 x 79.9 mm (29 3/4 x 19 1/8 x 3 1/4 inches)	655.6 x 426.7 x 79.9 mm (25 7/8 x 16 7/8 x 3 1/4 inches)
Mass	Approx. 16.9 kg (Approx. 37 lb 5 oz)	Approx. 11.2 kg (Approx. 24 lb 11 oz)	Approx. 9.2 kg (Approx. 20 lb 5 oz)
Mounting (W x H)	200 x 200 mm	100 x 100 mm	
IP Code	IP45 (front) / IP32 (others)		

Dimensions



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Features, design, and specifications are subject to change without notice.

The values for mass and dimension are approximate.

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