



4K ULTRA HD SURGICAL MONITOR



3840x2160



LED Backlight



Wide Angle



Wide Gamut



10 BIT Color



DICOM



HDR



12G-SDI



Front IP54

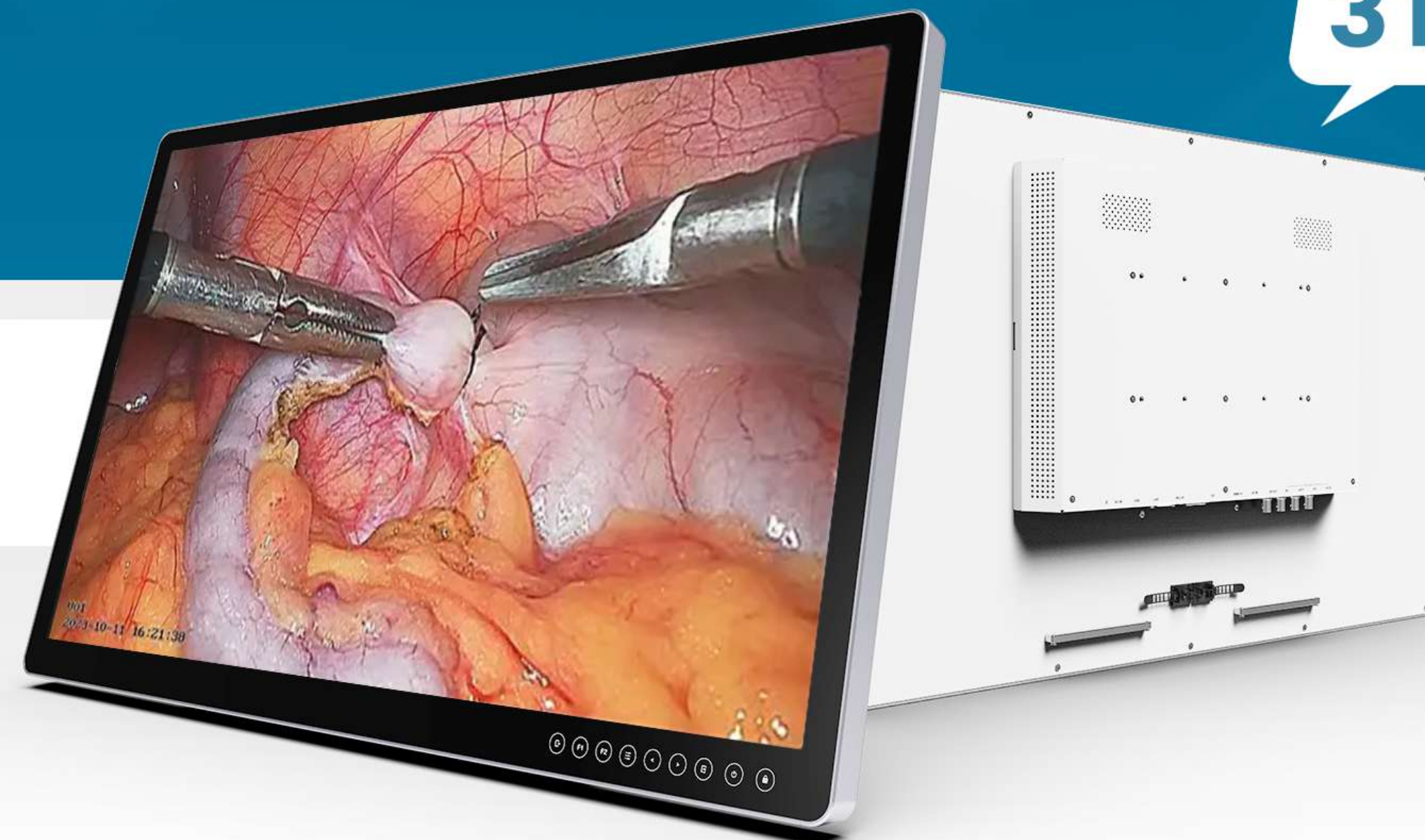


Protective Panel



Optical Bonding

31.5"



MD31

Model No.

MD31 is a 31.5-inch 4K surgical monitor for endoscopy and surgery, with accurate color reproduction, sharp contrast and vivid video images.



4K (3840x2160) Resolution
10 bit LCD panel

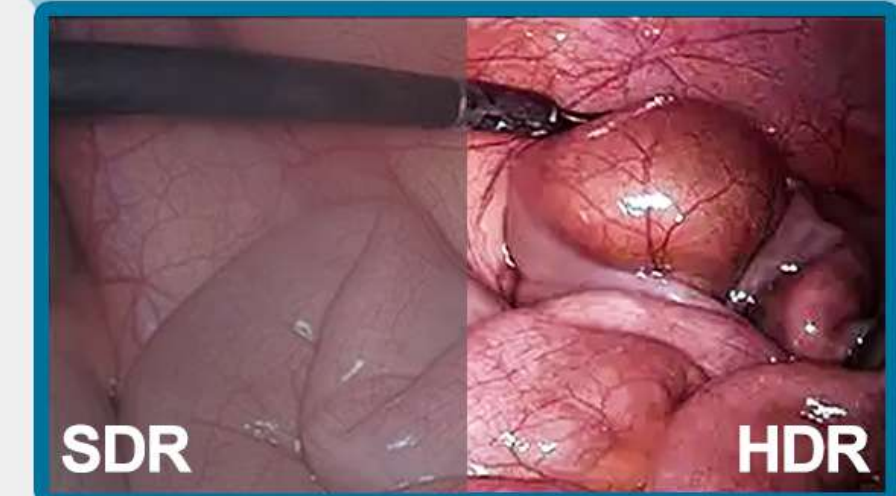
4K
ULTRA HD



Optical Bonding
AF and AR glass panel



4K Compatible
Support HDR display



Medical Grade Hygiene And Safety
Front IP54 rating



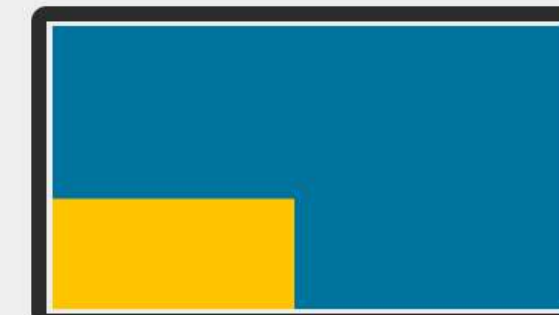
12G-SDI Inputs And Loop Outputs & DP MST
Support 4K 60Hz video signal

Color Calibration
Gamma 1.8-2.6

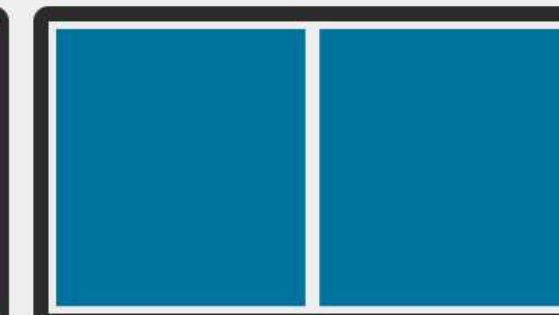


Multiview Display

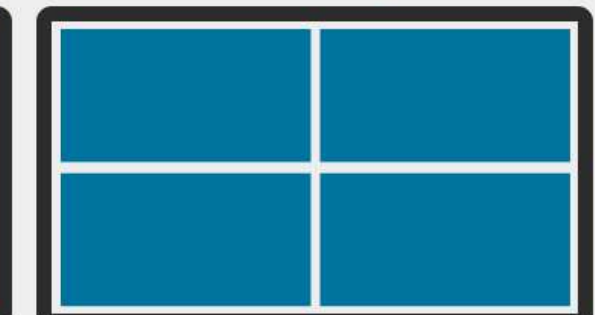
PIP



PBP



Quad-Split

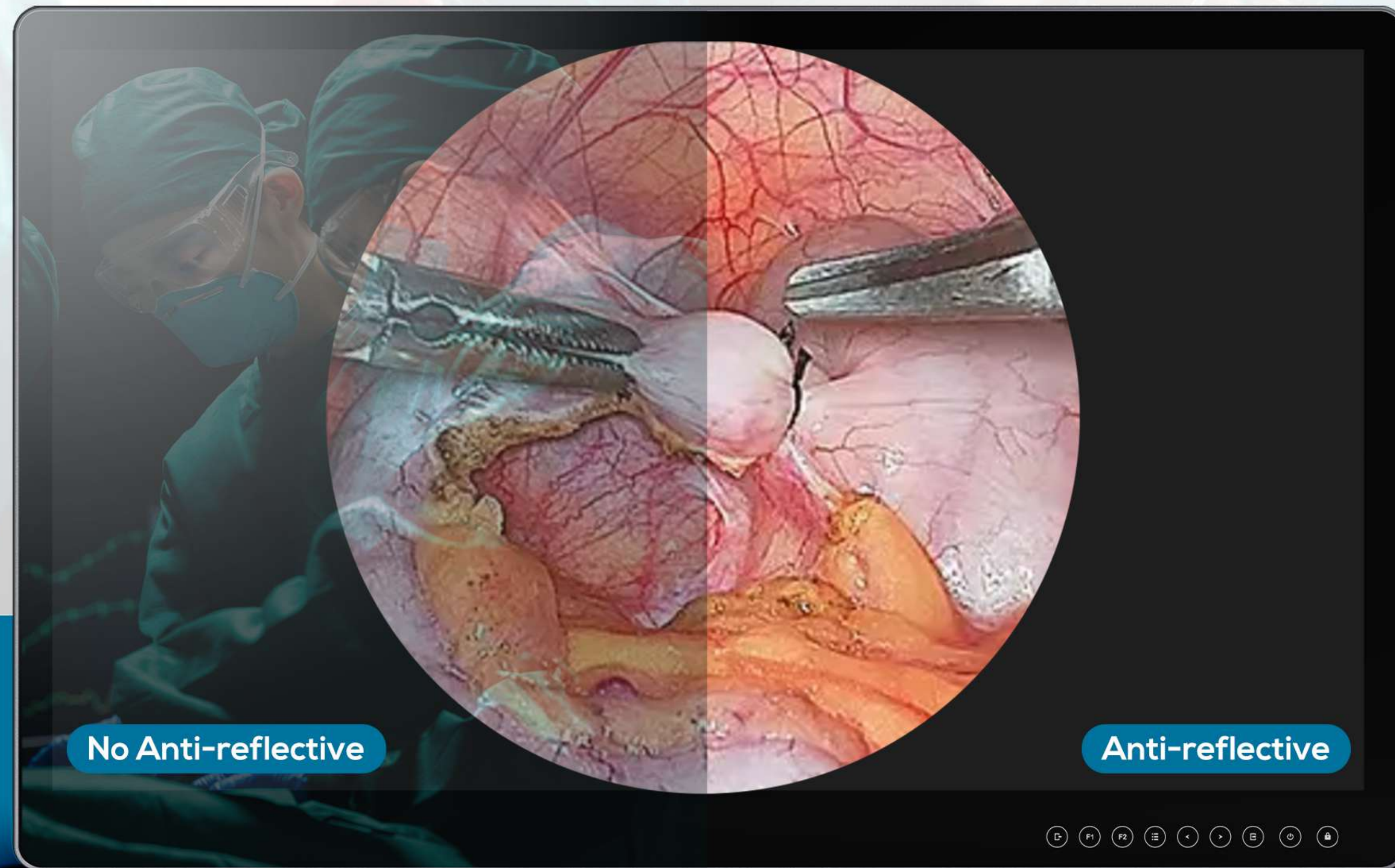


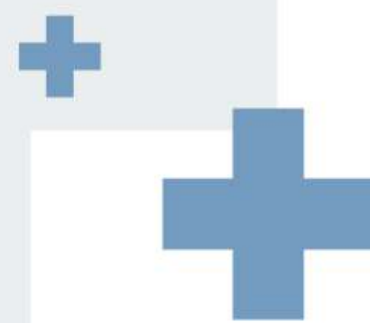
ANTI-REFLECTIVE

SCREEN WITH ANTI-REFLECTIVE COATING



- The optical bonding process can remove the air layer between the LCD panel and the glass, ensuring that foreign objects such as dust and moisture will not damage the LCD panel. Anti-reflective screen can reduce reflective glare in the operating room, such as interference reflections from surgical lights.

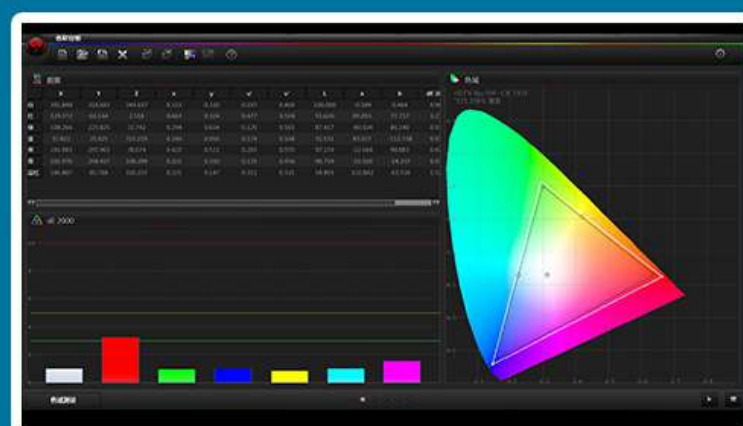
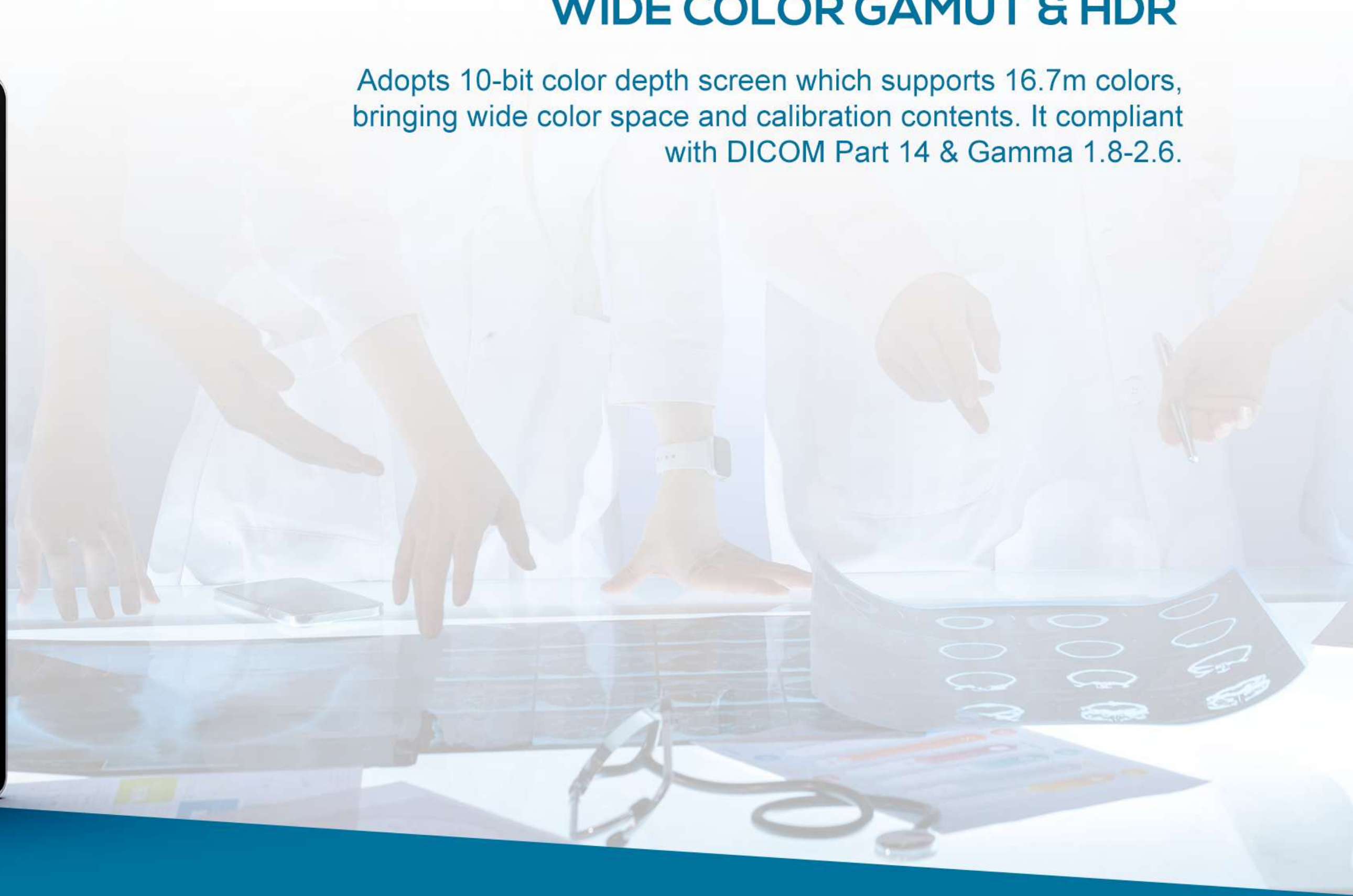




COLOR CORRECTION

WIDE COLOR GAMUT & HDR

Adopts 10-bit color depth screen which supports 16.7m colors, bringing wide color space and calibration contents. It compliant with DICOM Part 14 & Gamma 1.8-2.6.



WIDE COLOR GAMUT

Support for BT.709, BT.2020 4K color space.



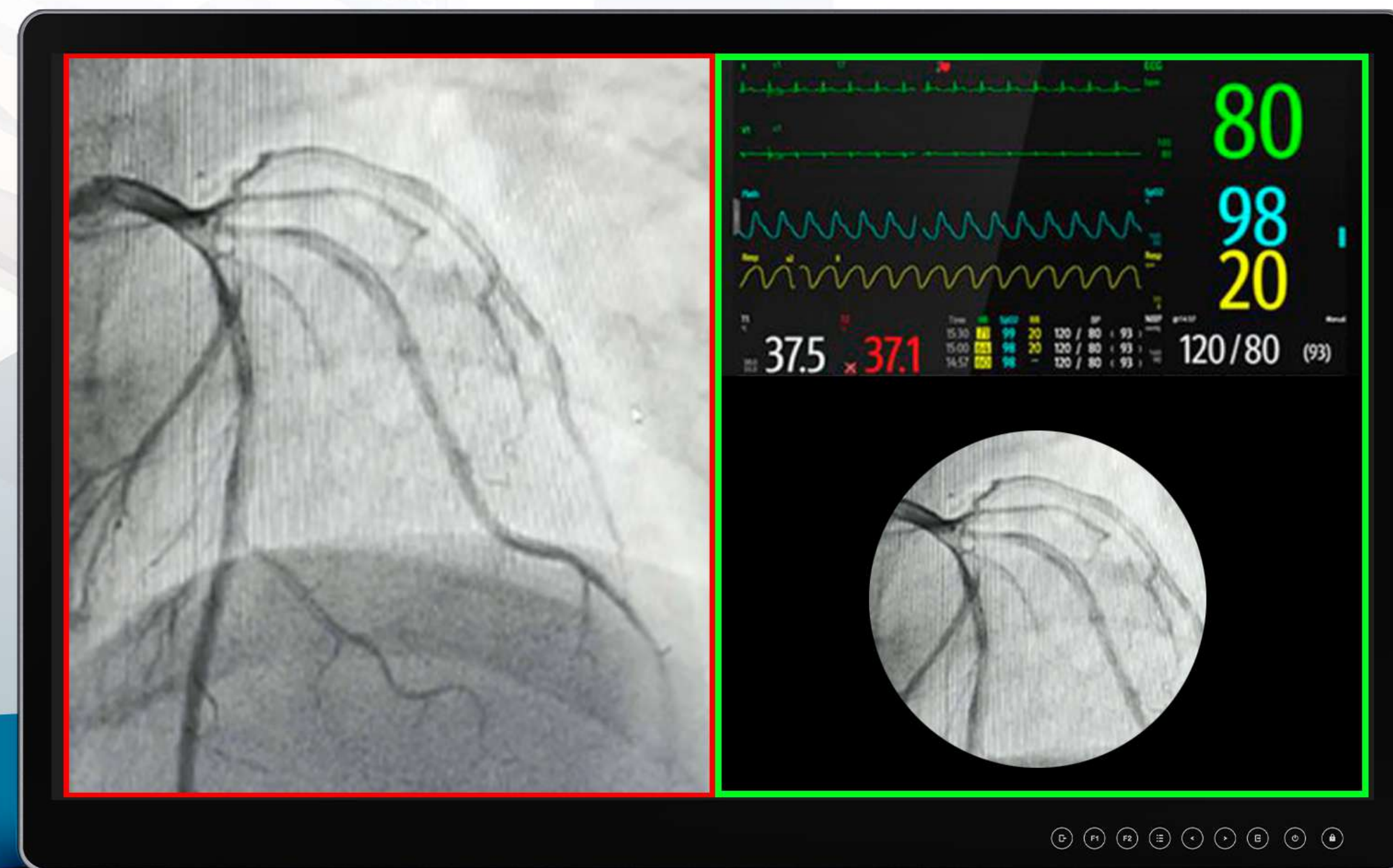
HIGH DYNAMIC RANGE

HDR provide more dynamic range and image details, which can better reflect the visual effects in the surgical environment

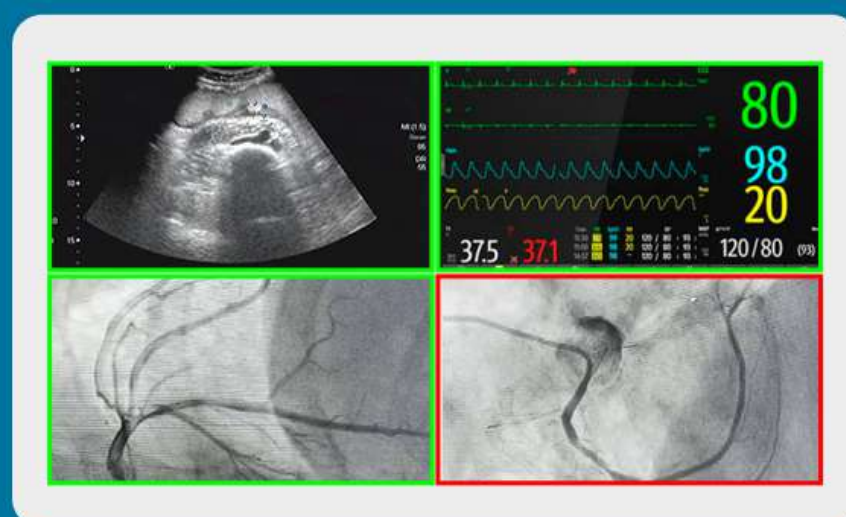
MULTIVIEW DISPLAY

ADJUST THE SPECIFIED SIGNAL SOURCES

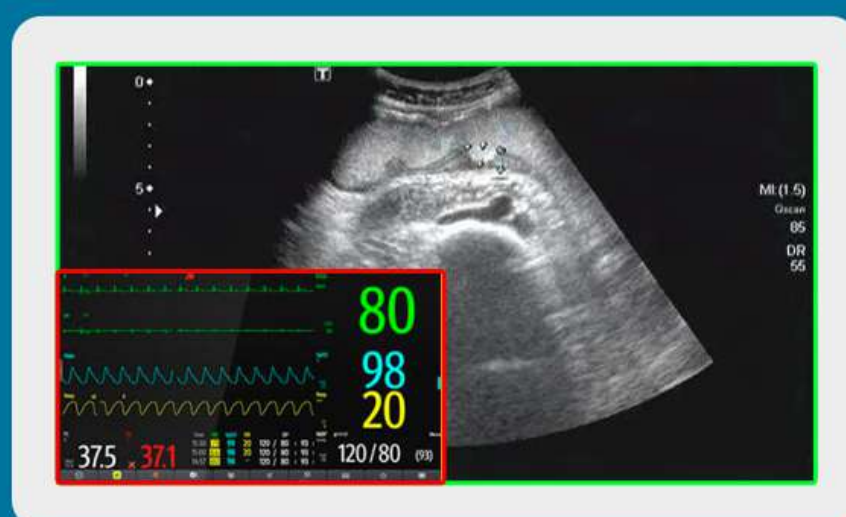
Support dual screen / quad-split / picture in picture / picture by picture.
In multiview mode, image settings can be made for the selected signal.
(e.g. GAMMA 1.8-2.6 or DICOM preset mode).



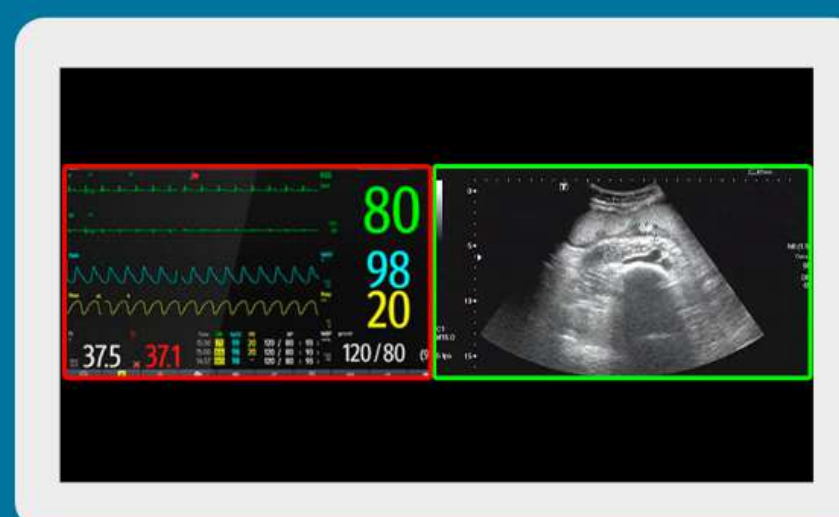
Quad-Split



Picture In Picture



Picture By Picture

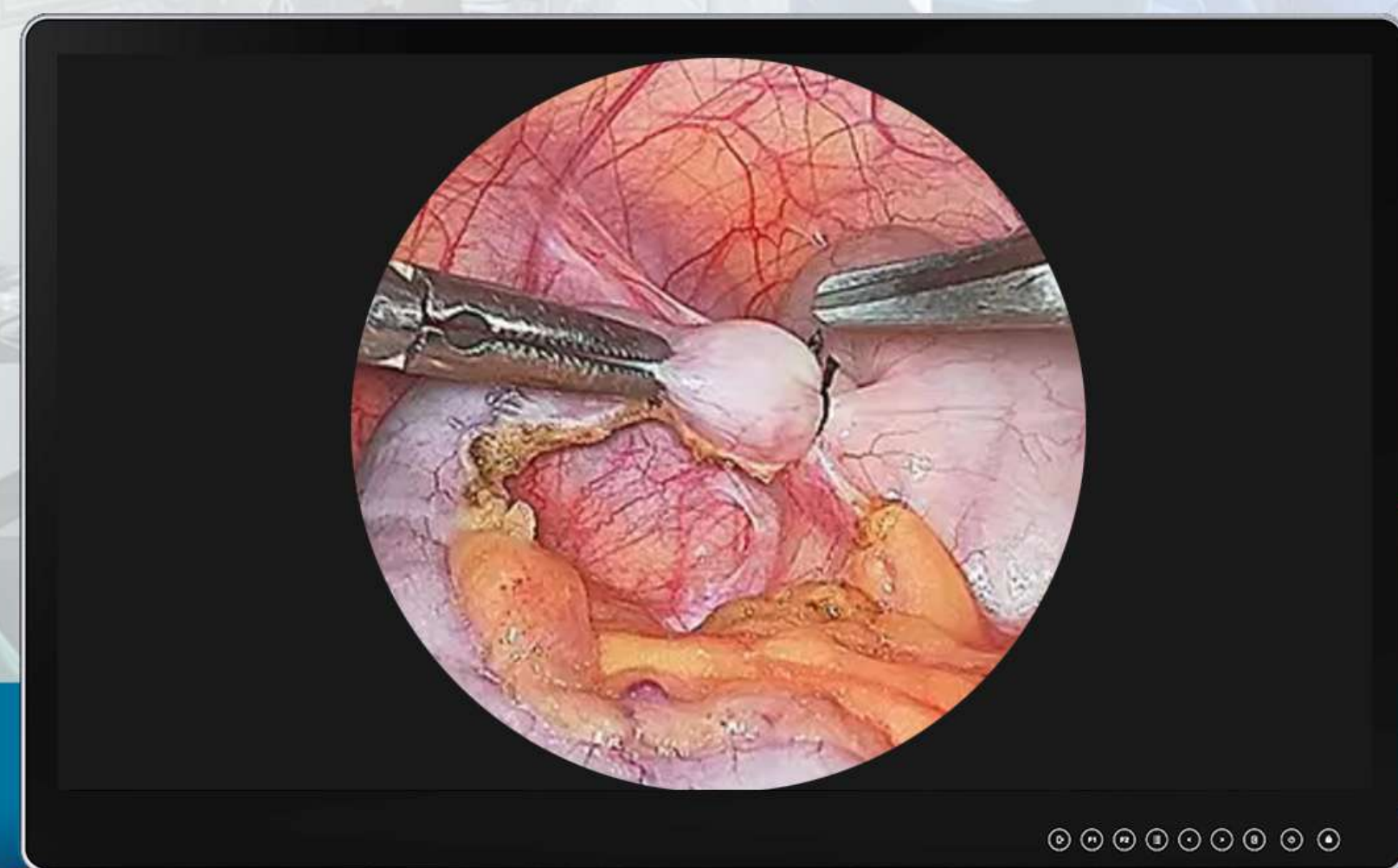


Support Dual Picture

AUTO INPUT SELECT MODE

AUTOMATICALLY IDENTIFIES

When the input signal is interrupted due to system error or other external interference, the device will automatically switch to other input signal modes.



MD31 Monitor

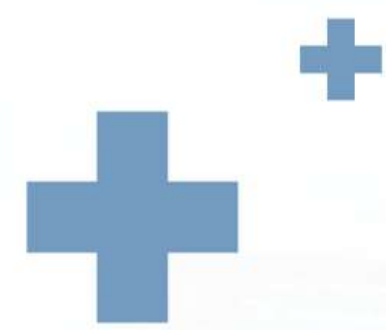
 Active

Failover Input Switch

 Missing

Medical Image Source Devices



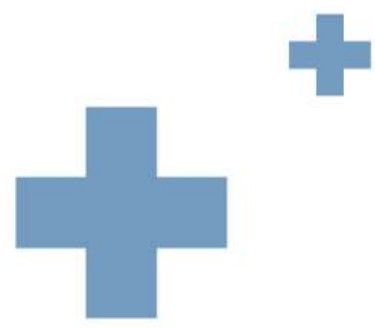


IP54 FRONT PANEL

WATER-PROOF AND DUST-PROOF

The water-proof and dust-proof capability of the front panel makes it easy for users to clean the monitor with alcohol or water during use.

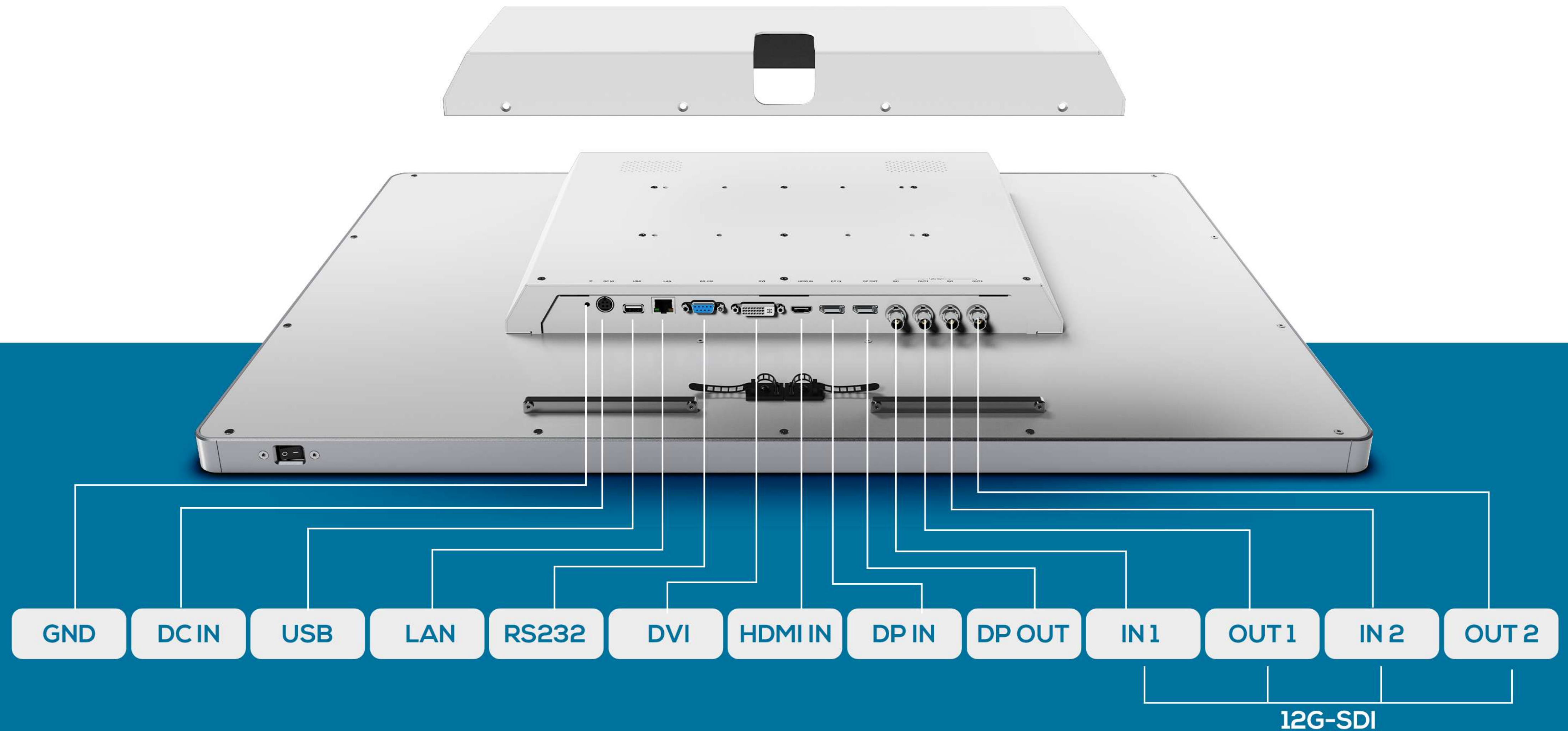


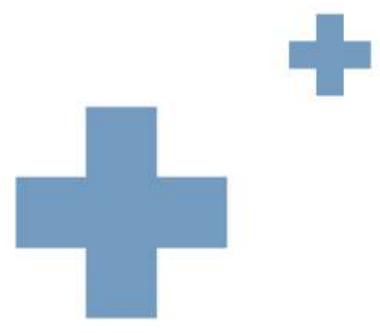


CABLE SHIELD

HYGIENIC AND SAFE

The cleaning solution is not easily in contact with the interface to avoid short circuits or corrosion.
It also constrains the distribution of cables, preventing them from cluttering and falling out.

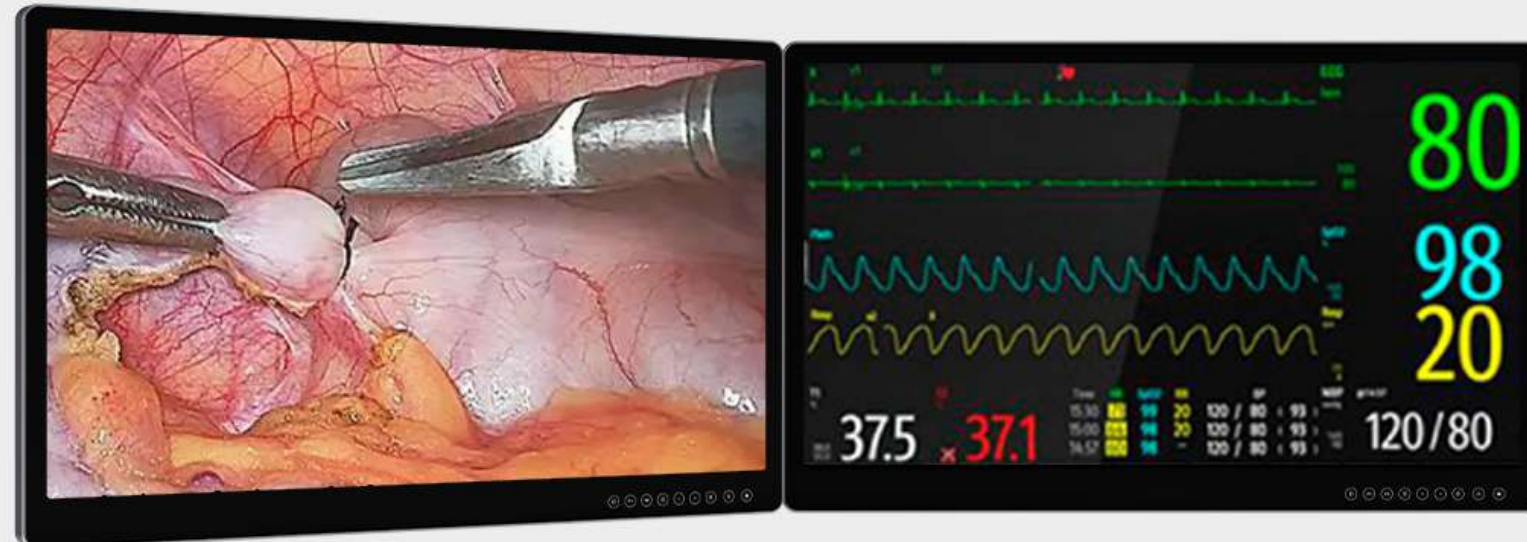




OTHER FUNCTIONS

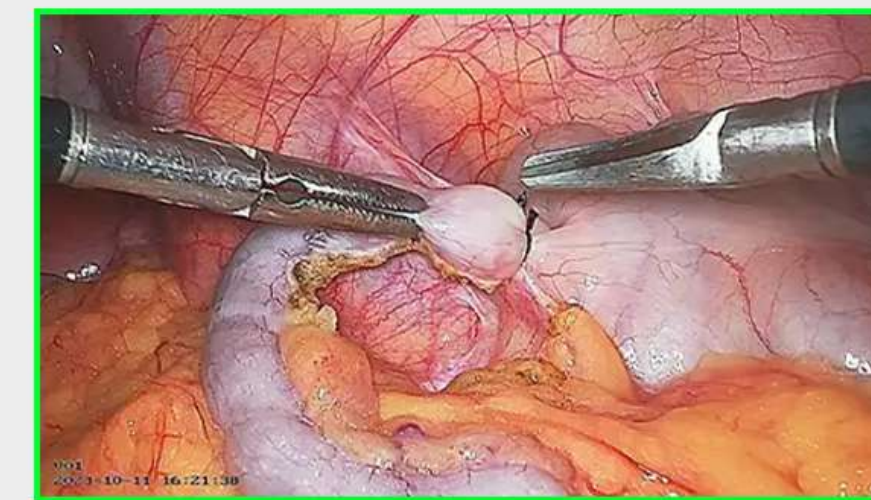
DIVERSIFICATION FOR MONITOR VIEW

In complex medical applications, in addition to providing premium color quality, the monitor's capabilities offer options for different monitoring methods.

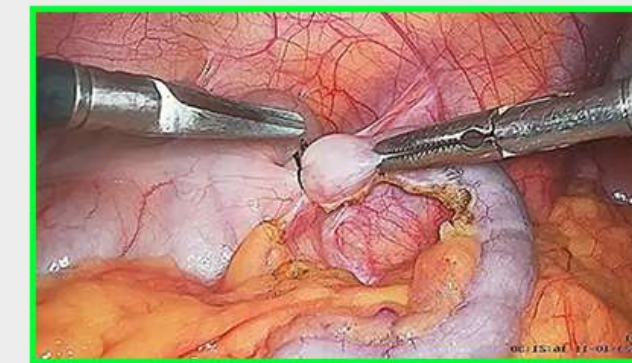


DP Daisy Chain Output

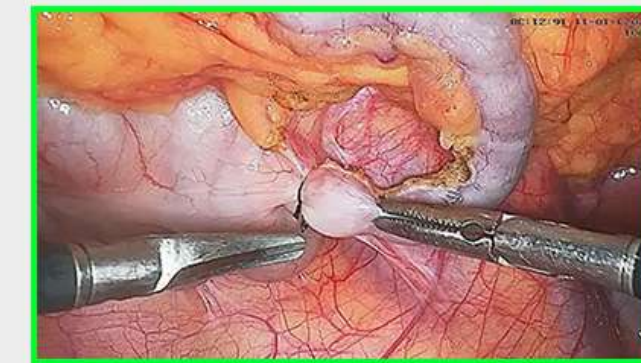
When entering the DP port to access the computer signal, the DP MST (chrysanthemum chain) is turned on, and the DP out output is an expansion display of the computer.



Original



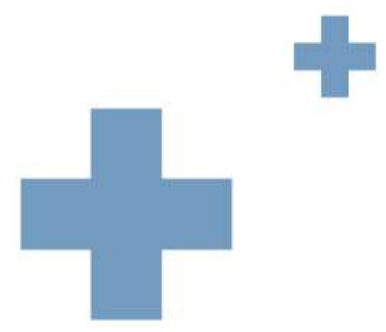
Mirror



Rotation

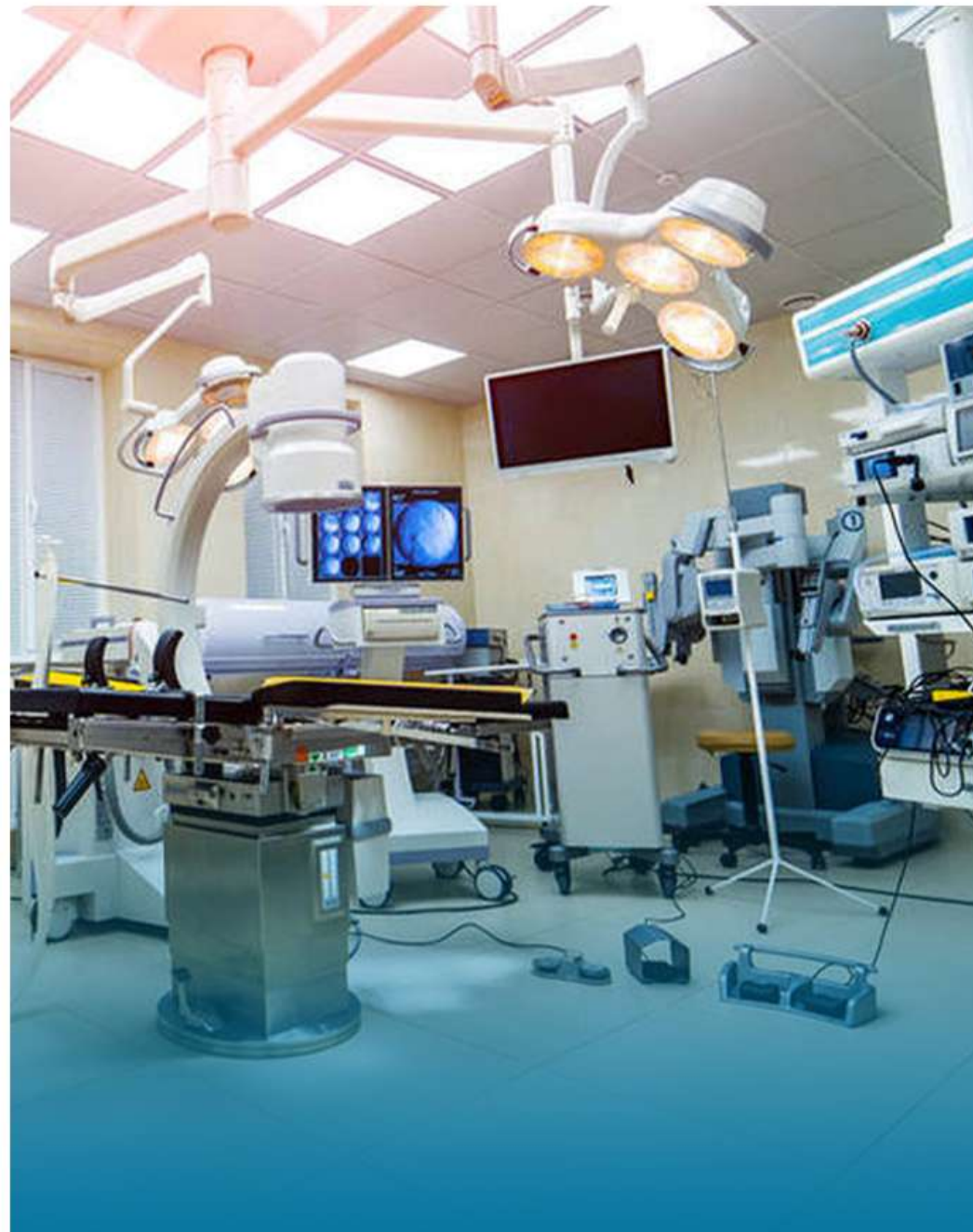
Image Rotation and Mirroring

The displayed image can be rotated 90°/180°/270° or mirrored, which can match the surgeon's line of sight at different positions and improve the convenience of the operating room.



RELATED APPLICATIONS

MICROSURGERY / ENDOSCOPY



Microsurgery

The 4K displays are ideal for Heads Up microsurgical applications.



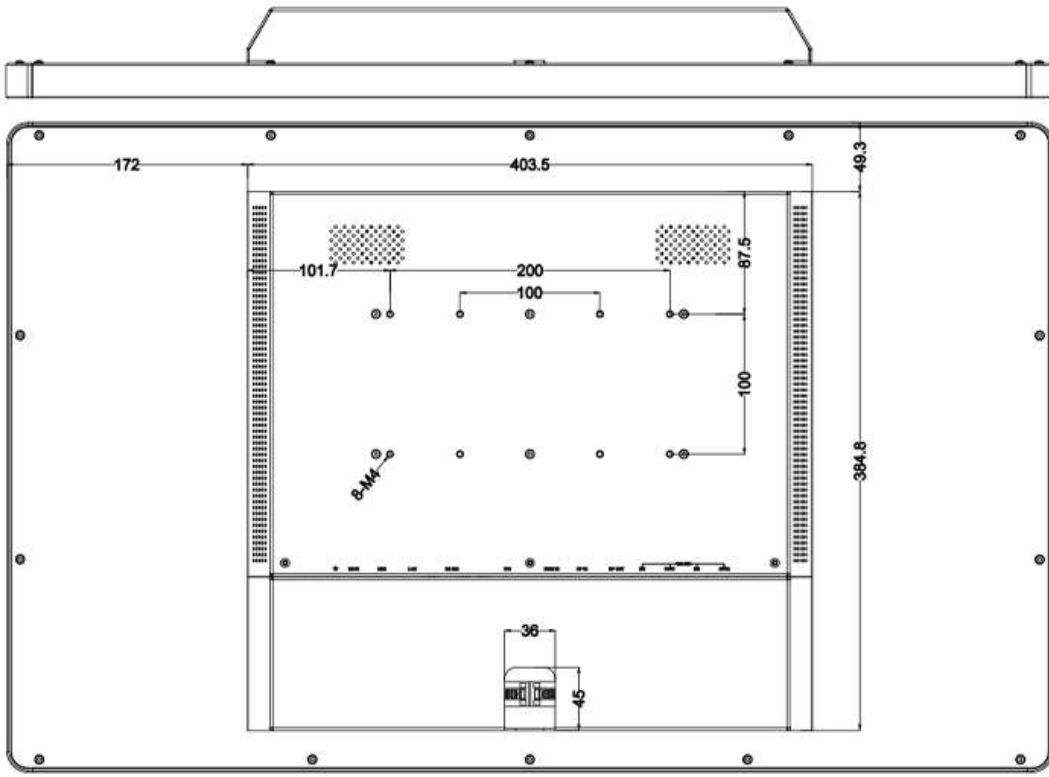
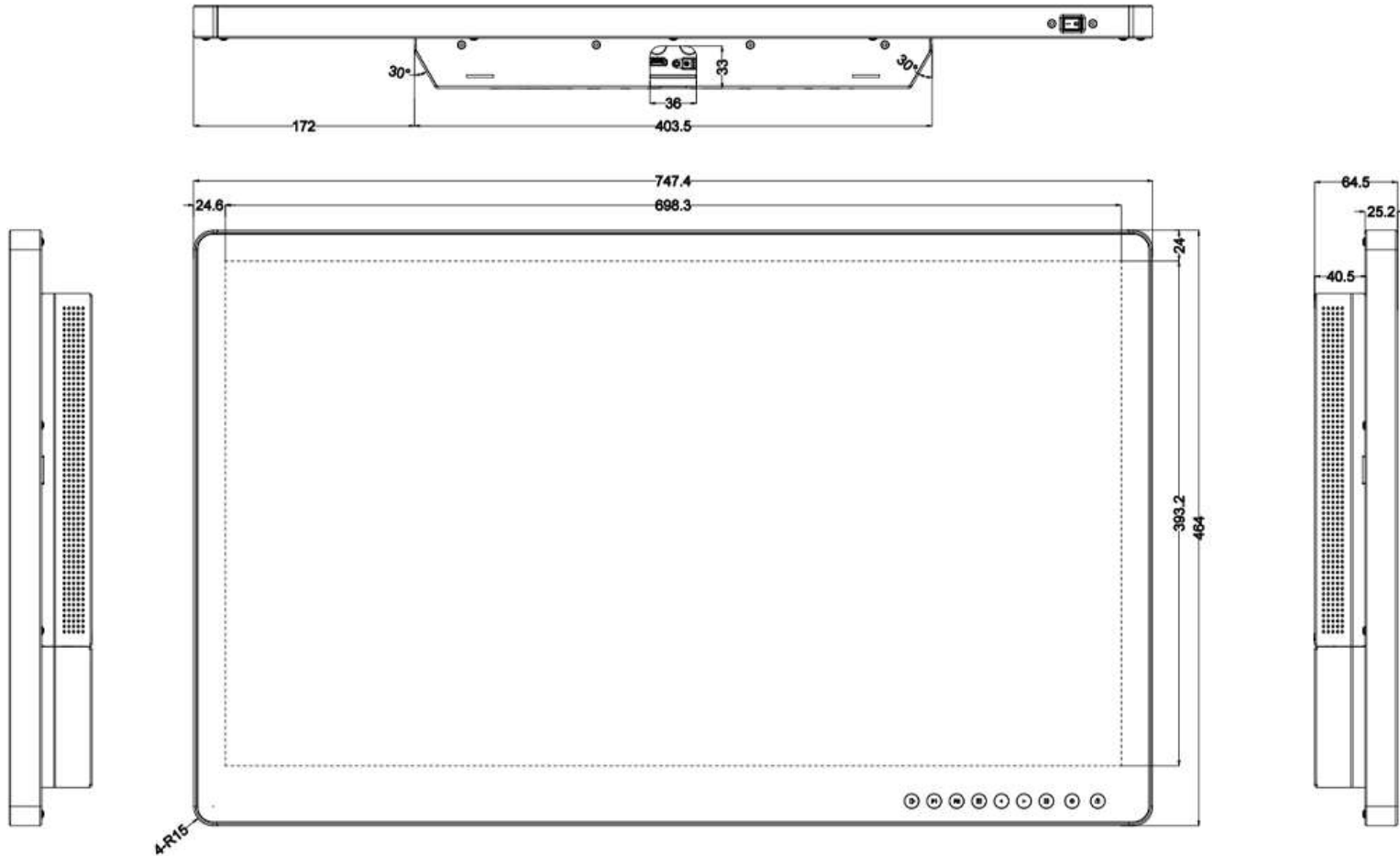
Endoscopy

The medical monitors cart enhance today's endoscopic imaging workflows, from image capture through to display and documentation.



SPECIFICATIONS

DISPLAY	Panel	31.5" 10 bit
	Physical Resolution	3840×2160
	Viewing Area	697.3056(H)mm x 392.2344(V) mm
	Pixel Pitch	0.18159(H)mm x 0.18159(V)mm
	Aspect Ratio	16:9
	Brightness	350 cd/m²
	Contrast	1000:1
	Viewing Angle	178°H / 178°V
	Light Source	LCD
	Coating	Anti-reflective, anti-fingerprint
	Gamma	Native / 1.8 / 2.0 / 2.2 / 2.4 / 2.6 / DICOM
	Color Calibration	BT.709 / BT.2020
	Lifetime	30000h
	Response Time	≤14ms
INTERFACE	Power	DC x1
	Software Upgrade	USB x1
	Control	LAN x1
		RS232 x1
	Signal Input	12G-SDI x2
		DP x1
		HDMI2.0 x1
		DVI x1
	Signal Output	12G-SDI x2
		DP (MST) x1
MENU	Function Key	POWER, INPUT, MENU, <, >, EXIT, F1 (PIP), F2 (Gamma), LOCK
	Menu Language	Chinese / English
POWER	Input Voltage	15V
	Power Consumption	≤60W
ENVIRONMENT	Operating Temperature	0°C – 50°C
	Storage Temperature	-20°C – 60°C
OTHER	Dimension(LWD)	747.4mm x 464mm x 64.5mm
	Weight	12kg
	Certification	IEC 60601-1、 EN 60601-1



Accessory



DC 15V 6A Power Adapter



Screw For GND



E-User Manual



Screwdriver

