



Faithfully reproduce 4K UHD stereoscopic images with this 31.1-inch widescreen 3D surgical monitor.

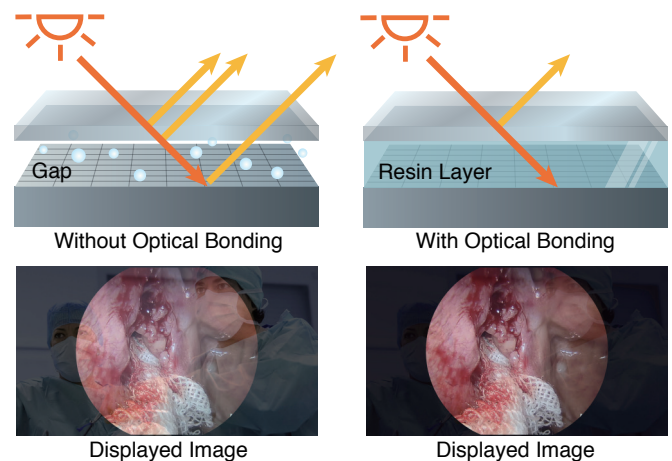
4K 3D Surgical Display with High Visibility

This monitor faithfully reproduces stereoscopic images in 4K UHD resolution (3840 x 2160) at a high brightness of up to 450 cd/m², achieving both detail and depth for endoscopy and microsurgery.



Reduced Reflections

Reflections on the screen of LCD monitors are caused when external light hits the screen and reflects off of the protective glass and layer of air at different refractive indices. Optical bonding removes the layer of air in order to lower the difference of refractive indices. This softens the reflections on the screen and produces a clear, highly visible image without affecting contrast.



CuratOR® EX3141-3D

Fully Flat Design for Safety and Hygiene

Operating rooms contain various medical devices that are arranged by the type of surgery being undertaken. In consideration of safety, EIZO's surgical monitors adopt rounded corners. Furthermore, the front is covered with a fully flat protective glass with IP45 for protection against foreign material and splashes (the whole monitor has an IP32 rating). With the attached cable cover, cables can also be neatly stored out of sight for increased safety and hygiene.

High Durability

The monitor has protective glass with a hardness of 9H, making it resistant to impacts. Furthermore, the monitor is equipped with optical bonding, which removes the layer of air between the LCD panel and glass. This ensures foreign materials such as dust and moisture cannot damage the LCD panel.

Enhanced Sharpness

EIZO's proprietary image sharpening technology Smart Resolution with Sparse Coding (S.R.S.C.) allows full HD images shot by conventional endoscopy and surgical cameras to be displayed in high definition 4K resolution without lag.

Sharp Color Reproduction with Wide Color Gamut

Not only does the monitor faithfully display the sRGB color gamut, but it also reproduces images emulating the 4K video color standard BT.2020. This ensures vivid reds and yellow-greens captured with BT.2020-supported cameras are displayed more accurately.

HDR Compatibility

HDR (High Dynamic Range) is a range that approximates the human perception of color and light as content is shown on a display device. The monitor is equipped with the perceptual quantization (PQ) curve and hybrid log-gamma (HLG) for supporting HDR. This ensures images from HDR-supported endoscope cameras are displayed without crushing blacks and more closely resemble the human visual system.

Safe and Easy Cable Management

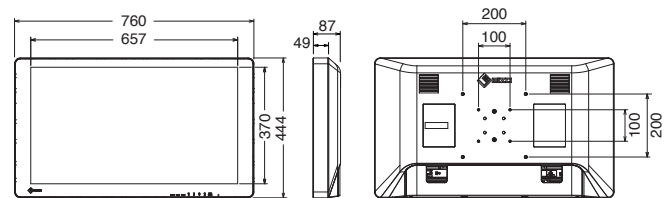
With 12G-SDI (BNC), and DisplayPort 1.2 or HDMI, 4K UHD images are displayed at 60 frames per second with a single cable over various modalities. Also, the small AC adapter size aids in easy cable management. With the 12G-SDI (BNC) terminal, stable transmission is possible even over long distances of 30 meters.

Typically HDMI cables cannot be locked into a terminal but this monitor contains a specialized locking mechanism on its side specifically for HDMI. This ensures all cables can be locked onto the monitor for consistent and stable connection.

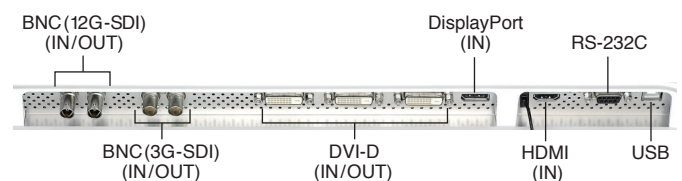
Specifications

Panel	Type	Color (IPS)
	Backlight	LED
	Size	78.9 cm / 31.1"
	Native Resolution	3840 x 2160 (16:9 aspect ratio)
	Viewable Image Size (H x V)	654 x 368 mm
	Pixel Pitch	0.170 x 0.170 mm
	Display Colors	10-bit colors (SDI / DisplayPort / HDMI) : 1.07 billion (maximum) colors 8-bit colors: 16.77 million colors
	Viewing Angles (H / V, typical)	178° / 178° (2D mode)
	Brightness (typical)	450 cd/m ²
	Contrast Ratio (typical)	1300:1
	Response Time (typical)	20 ms (on / off)
Wide Gamut Coverage (typical)	BT.2020 emulation	
Video Signals	Input Terminals	DisplayPort (HDCP 1.3), HDMI (HDCP 2.2/1.4), BNC (12G-SDI), BNC (3G-SDI), DVI-D x 2 (HDCP 1.4)
	Output Terminals	BNC (12G-SDI), BNC (3G-SDI), DVI-D
	Digital Scanning Frequency (H / V)	27 - 135 kHz / 24 - 60 Hz
USB	Upstream	USB 2.0: Type-B (CDC)
Power	Power Requirements	AC 100 - 240 V: 50 / 60 Hz
	Maximum Power Consumption	219 W
Features & Functions		4K 3D (Side by Side, Line by Line), 3D (Side by Side, Line by Line, Top and Bottom, SIMUL), Remote control (USB, RS-232C)
Physical Specifications	Net Weight (Without Stand)	14 kg
	Hole Spacing (VESA Standard)	200 x 200 mm, M6, depth 7 - 11 mm / 100 x 100 mm, M4, depth 7 - 9 mm
Environmental Requirements	Degree of Protection	IP45 (Front), IP32 (Rear)
Certifications & Standards (Please contact the EIZO group company or distributor in your country for the latest information.)		CE (Medical Device Directive), EN60601-1, ANSI/AAMI ES60601-1, CSA C22.2 No. 601-1, IEC60601-1, VCCI-A, FCC-A, CAN ICES-3(A), RCM, RoHS, China RoHS, WEEE, CCC, EAC, BIS
FDA		Class I
Supplied Accessories (May vary by country. Please contact EIZO for details.)		AC power cord, AC adapter, 3D fogless polarized glasses x 3, Cable cover, Utility Disk (PDF installation manual), instructions for use
Warranty		Two Years

Dimensions (Unit : mm)



Connector



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www.eizo-or.com/contact

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