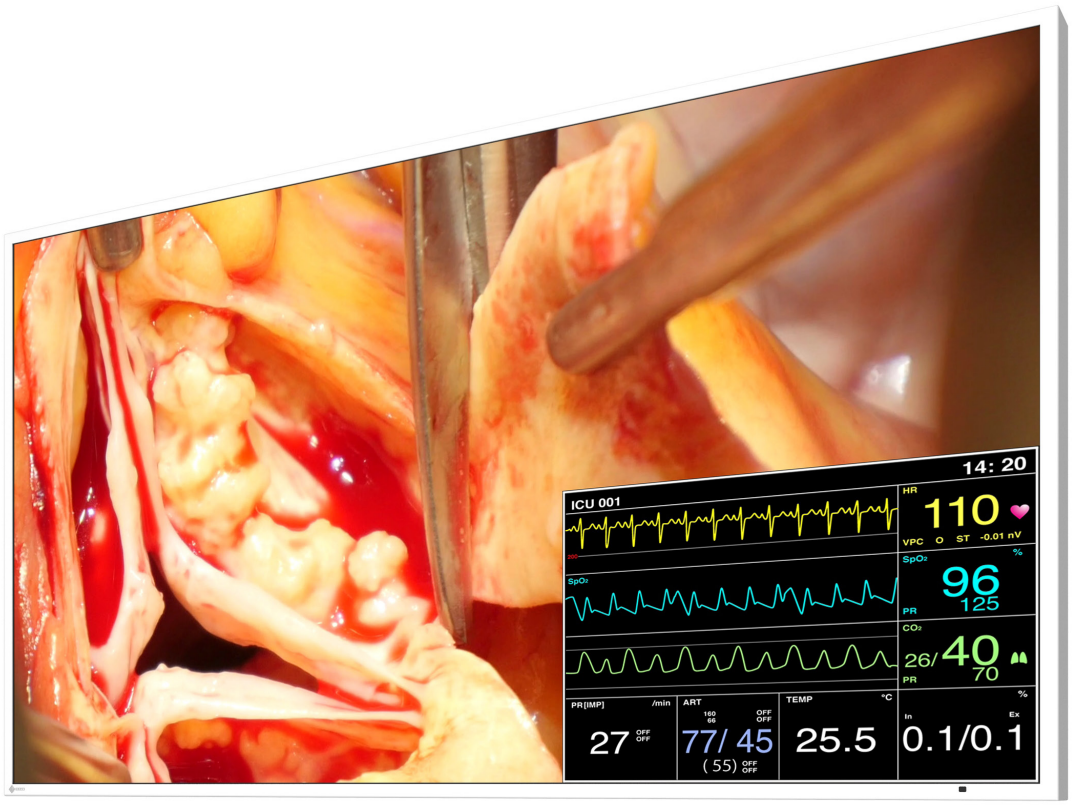
Surgical Monitor

CuratOR® LX491W



49" monitor with full HD resolution for viewing medical images in the OR

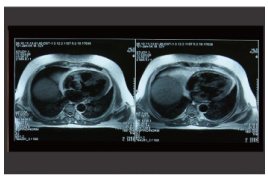
Large Display Area

With an image diagonal of 49 inches and a resolution of 1920 × 1080 pixels, the monitor is suited for displaying different image sources simultaneously. The large screen makes the monitor ideal for mounting on the OR wall and viewing images from a greater distance. Images can be scaled to full screen, reproduced in their original size, or displayed in or next to one another with the PiP and PaP functions.

Flexible Usage

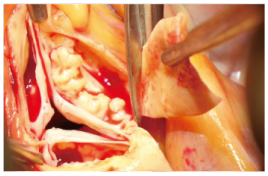
The monitor supports a wide spectrum of timings and can be easily adapted to the diverse signal requirements of the operating room. With its numerous input and output connectors, the monitor can be used in a variety of ways with established imaging systems. Depending on the procedure and requirements, users can, for example, quickly switch between endoscopic and X-ray images as well as modality images with specialized timings, or combine these images to support the needs of the procedure.

X-ray Pictures



DICOM Part 14

Gamma 2.2



Endoscopy Pictures

CuratOR® LX491W

Comfortably View from Any Angle

Wide viewing angles allow the monitor to be viewed from the side with minimal color shift, thus offering a quality image to multiple persons watching from different perspectives simultaneously.

Preset Look-Up Tables

The LX491W is pre-calibrated in the factory. With five application oriented look-up table (LUT) presets and a user-configurable LUT function, the monitor is easy to install and maintain. It can be quickly adapted to the local viewing and lighting conditions or application preferences as needed.

User-Defined LUT Function

With the user-defined look up table (LUT), the default gamma model, color coordinates, and brightness of the LX491W can be adapted to individual requirements without additional sensors and software. With Force Mode, even unknown timings from legacy medical systems can be analyzed and reproduced within the monitor. As a result, timings outside the standard range can also be displayed on the monitor, thus ensuring compatibility, particularly with older medical systems. This simplifies adaptations in the field, for example when replacing a device.

Numerous Video Inputs

The LX491W can be connected to imaging systems via the various video inputs, such as DVI, 3G-SDI, Composite, S-Video and VGA. The monitor can be simultaneously connected to both digital and traditional video signals (PAL, NTSC). If necessary, the video input settings can be adjusted using the OSD (On Screen Display) menu.

Simultaneous Display of Different Image Sources

Thanks to the monitor's widescreen format, the various input signals can be displayed in "picture-in-picture" (PiP) or side by side (PaP) orientations. This reduces the need for additional monitors, allowing users to view critical source images while simultaneously maintaining a view over other vital information.

Laminated Safety Glass for Easy Cleaning

The anti-reflective laminated safety glass ensures excellent image quality while protecting the monitor from scratch damage or liquid ingress during surgery or when cleaning and disinfecting the monitor.

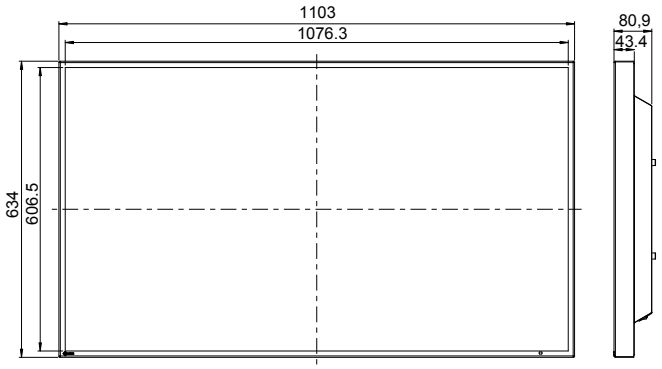
LED Backlight

The LX491W is equipped with an LED backlight that has been optimized for bright environments. LED technology offers a long lifetime expectancy even at high luminance settings.

Specifications

Cabinet Color		Black, White
Panel	**Type**	Color TFT LCD Panel (IPS)
	Backlight	LED
	Size	123 cm / 48.5"
	Native Resolution	1920 x 1080 (16:9 aspect ratio)
	Viewable Image Size (H x V)	1073.8 x 604 mm
	Pixel Pitch	0.559 mm x 0.559 mm
	Display Colors	8-bit colors: 16.77 million colors
	Viewing Angles (H / V, typical)	178° / 178°
	Brightness (typical)	700 cd/m^2
	Contrast Ratio (typical)	1300:1
	Response Time (typical)	8 ms (Midtone)
Video Signals	**Input Terminals**	DVI-I, DVI-D, BNC (3G-SDI), BNC (Composite), D-Sub mini 15pin (Separate Sync, Composite Sync, SoG*, YPbPr*, RGBS*, RGB/HV*), 4pin mini-DIN (S-Video) *adapter (D-Sub mini 15pin - BNC) required
	Output Terminals	BNC (3G-SDI), BNC (Composite), 4pin mini-DIN (S-Video), D-Sub mini 15pin (VGA)
	Scanning Frequency (H / V)	Digital : 30 - 91 kHz / 48 - 85 Hz Analog: 30 - 91 kHz / 48 - 85 Hz
	Sync Formats	Separate, Composite and Sync on Green
USB	**Upstream**	USB 2.0: Type-B
	Downstream	USB 2.0: Type-A x 2
Power	**Power Requirements**	AC 100 - 240 V: 50 / 60 Hz
	Maximum Power Consumption	144 W
	Typical Power Consumption	85 W
	Power Save Mode	19 W
	Power Management	DVI DMPM
Sensor		Backlight Sensor
OSD Languages		English, German
Features & Functions		User defined LUT function, Force Mode, PiP, PaP, PoP (source preview)
Physical Specifications	**Net Weight**	31 kg
	Hole Spacing (VESA Standard)	200 x 400 mm, M8, depth 10 - 30 mm
Environmental Requirements		Front: IP65 Rear: IP20
Certifications & Standards (Please contact EIZO for the latest information)		CE (Medical Device), IEC/EN60601-1, EN60950-1, CAN/CSA C22.2 No. 60601-1-08, UL60601-1, FCC-B, RCM, RoHS, China RoHS, WEEE, CCC
Supplied Accessories		AC power Cord (eu, us, jp, cn), signal cable (DVI-D - DVI-D), remote control, Utility Disk (PDF Instructions for Use)
Optional Accessories		Stand FST4700

Dimensions (Unit: mm)



Connector