

27-inch 4K Surgical Monitor with Mini-LED

| 27HQ710S |

High Image Quality with Mini-LED

High Contrast Ratio

The 27HQ710S is a surgical monitor with Mini-LED technology. It features 1.5K Local Dimming Zones provide precise backlight control so that dark areas can be expressed darker and bright areas brighter without light interference. This boost in overall picture quality is of critical importance and enables doctors to accurately pinpoint abnormalities and identify affected areas, which can improve patient outcomes, particularly in the case of laparoscopic surgery.

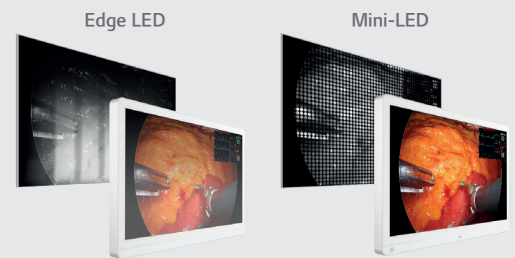
Peak Brightness 2000nits (Typ.)

As operating rooms require a higher level of illumination than most other environments, medical professionals need a monitor that can display vital information in a clear, easy-to-visualize manner. Mini-LEDs provide higher luminance than conventional LEDs and deliver up to 2,000 cd/m² of brightness, providing surgeons with a accurate picture despite the presence of intensive ambient lighting.

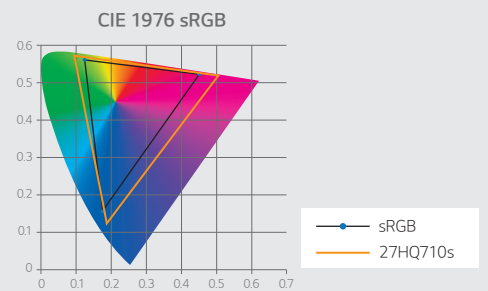
Improved Color Reproduction

Featuring 1.5K local dimming zones, the new 27HQ710S provides a higher color gamut than the previous LG Surgical Monitor.¹⁾ It's engineered with Mini-LED technology, which broadens the sRGB color gamut range from 115% to 139% to deliver exceptional image quality, which empowers doctors to clearly visualize and operate on affected areas with greater accuracy.

1) Based on the previous 27HJ710S model.



*Images are simulated for illustrative purposes only.



*27HJ710S: sRGB 115%(Area), 98%(Coverage)

*27HQ710S: sRGB 139%(Area), 100%(Coverage)

Stable Operating Environment

IP 45 (Front) | IP 32 (Except for Front) | IK06

Its front IP45 and rear IP32 water resistant and dustproof protection allows for disruption-free surgeries should fluids or particles come in contact with the monitor. What's more, thanks to its IK06 rating, it provides added durability that shields the screen from accidental dings or drops in urgent, high-intensity surgical situations.

Failover Input Switch

In the event the main input suddenly drops out, it automatically switches the display over to a backup failover input and restores the signal once it returns. Even if the connectivity of connected modalities becomes unstable during surgery, alternative operational functions ensure disruption-free surgery by continuously monitoring critical information.

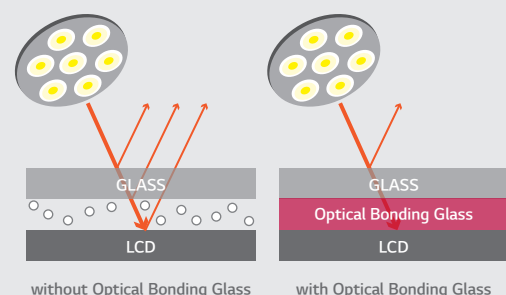


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Multi-Functional Operability

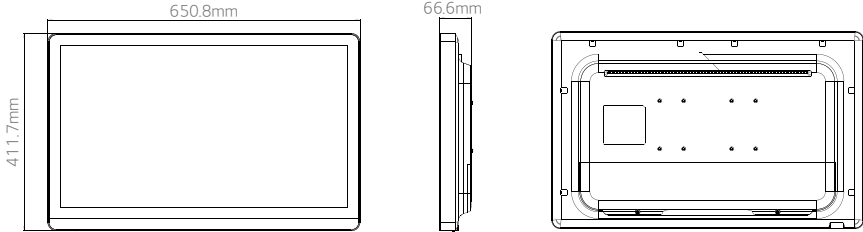
4 PBP, PIP | Mirror & Rotation | Optical Bonding Glass | Fanless Design

Designed for intensive surgical environments, the 27HQ710S can display multiple streams of information on one screen via 3G-SDI, DVI, Display-Port and HDMI ports. Medical staff can simultaneously monitor a patient's vital signs and view images transmitted from the laparoscopic camera without the need for an auxiliary monitor. Mirror & Rotation Mode enables users to flip and rotate the monitor in real time and adjust the screen for easy-to-operate angles regardless of camera position. What's more, Optical Bonding Glass provides high readability for better assessment, while its fanless design prevents disruptive noise that may interfere with surgeries.



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Specification

Model		27HQ710S	
			
Panel	Panel Type	VA	
	Inch (Aspect Ratio)	27-inch	
	Resolution	4K (3840 x 2160)	
	Backlight Technology	Mini-LED	
	Surface Treatment	Protection Glass (1.3t, Anti-Reflection, Anti-fingerprint)	
	Color Gamut (Typ.)	DCI-P3 110.9% (CIE1976, Area), DCI-P3 98% (CIE1976, Coverage), sRGB 139% (Area), sRGB 100% (Coverage)	
	Viewing Angles (CR≥10)	178° (Right / Left), 178° (Up / Down)	
	Brightness (Typ.)	800cd/m ²	
	Contrast Ratio (Typ.)	1000 : 1	
	Response Time (GtG ²⁾)	5ms (GtG at Faster)	
Feature	DICOM Compliant	Yes	
	HW Calibration	Yes (LG Calibration Studio)	
	HDR	HDR 10, HDR Effect	
	Super Resolution+	Yes	
Video Signals	Input Terminals	HDMI 2.0 x1, DisplayPort x1, DVI x1, 3G-SDI x1	
	Output Terminals	DisplayPort x1, DVI x1, 3G-SDI x1	
Connectivity	USB	1 Upstream (ver 3.0), 1 Downstream (ver 3.0)	
Power	AC Input	100-240Vac, 50/60Hz	
	Power Consumption (Max.)	120W	
	Power Consumption (DC Off)	Less than 0.3W	
Resistance Rating		IP45 (Front), IP32 (Except for Front), IK06	
Certifications & Standards		IEC (IEC 60601-1 / IEC 60601-1-2), EN (EN 60601-1 / EN 60601-1-2), IEC (IEC 60950-1 / IEC 55032, 55024), EN (EN 60950-1 / EN 55032, 55024), cUL (ANSI/AAMI ES 60601-1, CSA CAN/CSA-C22.2 NO. 60601-1), FCC (FCC part 15 Class B), FDA (Registration (Class I)), RoHS, REACH, WEEE	
User Convenience	PBP / PIP	Yes (2PBP / 3PBP / 4PBP) / Yes	
	Screen Filp	Rotation & Mirror Mode	
	Failover Input Switch	Yes	
	Hot Key	Yes (2 keys)	
	Flicker Safe	Yes	
Physical Specifications	Weight	8.0 kg (18 lb)	

2) GTG : Gray-to-gray response times.

*Specifications may vary by region. All features, standards, and other product specifications are subject to change without notice.



LG Electronics Inc.

<http://www.lge.com/global/business/virtual-showroom/medical-display>

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