

# **LG 4K Surgical Monitor**





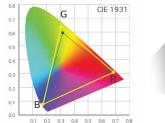
27HJ710S

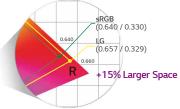


### Superior Image Quality for Delicate Surgery $_{-}$

#### 4K IPS Display with sRGB 115%(Deep Red)

The 8MP IPS display offers detailed images of previously hard-to-see regions and displays multiple imaging applications. it provides more accurate color reproduction with sRGB 115%(Deep Red), especially in the deep red color spectrum for color expression.





\*4K: 3840x2160

#### DICOM Part 14 & Brightness Stabilization

The LG surgical monitor carefully measures and sets every grayscale tone as well to create a monitor compliant with DICOM Part 14 and ensure the most accurate outcome. And, its stabilized brightness settings quickly adapt to the surgical procedure and local lighting conditions.



\*DICOM: Digital Imaging and Communications in Medicine



### **Essential Features for Safe Operation**

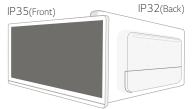
#### IP35 & IP32: Dustproof & Water Resistance

To ensure protection against contact with substances such as blood or bodily fluids, LG surgical monitors are cleanable and durable, with ratings of IP35 on the front and IP32 on the back, securing them from any direction.









#### **Anti-Reflection & Optical Bonding Glass**

The LG surgical monitor with optical bonding glass significantly reduces internal reflection between the outer glass and the LCD to enhance accuracy. The improved anti-reflection ability enables a brighter and sharper display for the highest image quality.

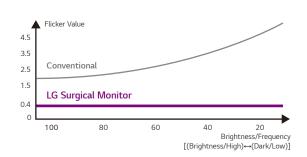




### **Long-lasting Eye Comfort**

#### Flicker Safe

Flicker Safe reduces the onscreen flicker level to almost zero, which helps minimize eye strain and eye fatigue. By combining Flicker Safe with the proven picture quality of IPS technology, users can comfortably work throughout the day.





## Specification\_

External Dimension	Model Name		27HJ710S
Size   27" (169)     Native Resolution   3840 x 2160     Pixel Pitch   0.1554 mm x 0.1554 mm x 0.1554 mm     Display Colors   10bit / sRGB 115% (Deep Red)     Viewing Angles   178/178     Brightness   800cd/m² (Typ.)     Surface Treatment   Optical Bonding Glass     Contrast Ratio   1000:1 (Typ.)     Response Time   14ms (Typ.)     Input Terminals   HDMI (2.0) x 1, DP (1.2) x 1, DMI-D x 1, 3G-SDI x 1     Output Terminals   DP (1.2) x 1, DMI-D x 1, 3G-SDI x 1     Digital Scanning Frequency (H/V)   HDMI, DP: 30-135kHz / 56-61Hz, DVI-D: 30-83kHz / 56-61Hz     Sync Formats   Dynamic Sync Mode (Thru Mode)     USB	External Dimension		229 277 277 278 279 270 270 270 270 270 270 270 270 270 270
Native Resolution		Туре	IPS
Panel	Panel	Size	27" (16:9)
Panel		Native Resolution	3840 x 2160
Viewing Angles   178/178     Brightness   800cd/m² (Typ.)		Pixel Pitch	0.1554 mm x 0.1554 mm
Viewing Angles   178/178     Brightness   800cd/m² (Typ.)		Display Colors	10bit / sRGB 115% (Deep Red)
Surface Treatment Optical Bonding Glass  Contrast Ratio 1000:1 (Typ.)  Response Time 14ms (Typ.)  Input Terminals HDMI (20) x 1, DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1  Output Terminals DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1  Digital Scanning Frequency (H/V) HDMI, DP: 30-135kHz / 56-61Hz, DVI-D: 30-83kHz / 56-61Hz  Sync Formats Dynamic Sync Mode (Thru Mode)  1 upstream, 1 downstream (For Calibration)  Standard USB 3.0  Power Requirements 100-240Vac, 50/60Hz  Power Maximum Power Consumption 120W  Power Management O.3W  Brightness Stabilization Support  Resistance Rating IP35 / IP32 (Front / Back), 8H Glass  Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6  DICOM Gamma curve  IEC (IEC 60601-1 / IEC 60601-1-12), FCC (FCC part 15 Class A), CB, UL (UL 60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDID (Class 1)  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual		· ·	
Surface Treatment Optical Bonding Glass  Contrast Ratio 1000:1 (Typ.)  Response Time 14ms (Typ.)  Input Terminals HDMI (2.0) x 1, DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1  Output Terminals DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1  Digital Scanning Frequency (H/V) HDMI, DP: 30-135kHz / 56-61Hz, DVI-D: 30-83kHz / 56-61Hz  Sync Formats Dynamic Sync Mode (Thru Mode)  1 upstream, 1 downstream (For Calibration)  Standard USB 3.0  Power Requirements 100-240Vac, 50/60Hz  Power Management 0.3W  Brightness Stabilization Support  Resistance Rating IP35 / IP32 (Front / Back), 8H Glass  Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6  DICOM Gamma curve  IEC (IEC 60601-1 / IEC 60601-1-12), FCC (FCC part 15 Class A), CB, UL (UL 60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDID (Class 1)  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual			800cd/m² (Typ.)
Response Time		Surface Treatment	
Response Time		Contrast Ratio	1000:1 (Typ.)
Video Signals     Output Terminals     DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1       Digital Scanning Frequency (H/V)     HDMI, DP: 30-135kHz / 56-61Hz, DVI-D: 30-83kHz / 56-61Hz       Sync Formats     Dynamic Sync Mode (Thru Mode)       USB     Function     1 upstream, 1 downstream (For Calibration)       USB 3.0     USB 3.0       Power Requirements     100-240Vac, 50/60Hz       Power Management     0.3W       Brightness Stabilization     Support       Resistance Rating     IP35 / IP32 (Front / Back), 8H Glass       Gamma 1.8 / Gamma 2.0 / Gamma 2.2     Gamma 2.4 / Gamma 2.6       DICOM Gamma curve     DICOM Gamma curve       IEC (IEC60601-1-1 / IEC60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)       Supplied Accessories		Response Time	
Digital Scanning Frequency (H/V)   HDMI, DP: 30-135kHz / 56-61Hz, DVI-D: 30-83kHz / 56-61Hz     Sync Formats   Dynamic Sync Mode (Thru Mode)     USB	Video Signals	Input Terminals	HDMI (2.0) x 1, DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1
Digital Scanning Frequency (H/V)   HDMI, DP: 30–135kHz / 56-61 Hz		Output Terminals	DP (1.2) x 1, DVI-D x 1, 3G-SDI x 1
Standard   USB 3.0		Digital Scanning Frequency (H/V)	HDMI, DP: 30~135kHz / 56~61Hz, DVI-D: 30~83kHz / 56~61Hz
Standard Power Requirements 100-240Vac, 50/60Hz  Maximum Power Consumption Power Management O.3W  Brightness Stabilization Resistance Rating IP35 / IP32 (Front / Back), 8H Glass Gamma 1.8 / Gamma 2.0 / Gamma 2.2 Gamma 2.4 / Gamma 2.6 DICOM Gamma curve  IEC (IEC 60601-1 / IEC 60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL 60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Supplied Accessories  Standard  OUSB 3.0  100-240Vac, 50/60Hz  120W  Support  Gamma 2.0 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6 DICOM Gamma Curve  IEC (IEC 60601-1 / IEC 60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL 60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual		Sync Formats	Dynamic Sync Mode (Thru Mode)
Standard USB 3.0  Power Requirements 100-240Vac, 50/60Hz  Maximum Power Consumption 120W  Power Management 0.3W  Brightness Stabilization Support  Resistance Rating IP35 / IP32 (Front / Back), 8H Glass  Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6  DICOM Gamma curve  IEC (IEC 60601-1 / IEC 60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL 60601-1), C-UL-US, KC, ROHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Supplied Accessories Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual	USB	Function	1 upstream, 1 downstream (For Calibration)
Power Maximum Power Consumption Power Management 0.3W  Brightness Stabilization Support Resistance Rating IP35 / IP32 (Front / Back), 8H Glass Gamma 1.8 / Gamma 2.0 / Gamma 2.2 Gamma 2.4 / Gamma 2.6 DICOM Gamma curve  IEC (IEC60601-1 / IEC60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual		Standard	USB 3.0
Power Management  Brightness Stabilization  Resistance Rating  IP35 / IP32 (Front / Back), 8H Glass  Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6  DICOM Gamma curve  IEC (IEC60601-1 / IEC60601-1-2), FCC (FCC part 15 Class A),  CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH,  WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable,  Adapter, CD/Book Manual	Power	Power Requirements	100-240Vac, 50/60Hz
Brightness Stabilization  Resistance Rating  IP35 / IP32 (Front / Back), 8H Glass  Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6  DICOM Gamma curve  IEC (IEC60601-1 / IEC60601-1-2), FCC (FCC part 15 Class A),  CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH,  WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable,  Adapter, CD/Book Manual		Maximum Power Consumption	120W
Resistance Rating  IP35 / IP32 (Front / Back), 8H Glass  Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6  DICOM Gamma curve  IEC (IEC60601-1 / IEC60601-1-2), FCC (FCC part 15 Class A),  CB, UL (UL60601-1), C-UL-US, KC, ROHS, REACH,  WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable,  Adapter, CD/Book Manual		Power Management	0.3W
Gamma 1.8 / Gamma 2.0 / Gamma 2.2  Gamma 2.4 / Gamma 2.6 DICOM Gamma curve  IEC (IEC60601-1 / IEC60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual	Brightness Stabilization		Support
Gamma 2.4 / Gamma 2.6 DICOM Gamma curve  IEC (IEC60601-1 / IEC60601-1-2), FCC (FCC part 15 Class A), CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Supplied Accessories  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual	Resistance Rating		IP35 / IP32 (Front / Back), 8H Glass
Certifications & Standards  CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH, WEEE, CISPR, EN, ANSI, AAMI, CE MDD (Class 1)  Power Cord, HDMI Cable, DP Cable, Adapter, CD/Book Manual	Gamma		Gamma 2.4 / Gamma 2.6
Supplied Accessories Adapter, CD/Book Manual	Certifications & Standards		CB, UL (UL60601-1), C-UL-US, KC, RoHS, REACH,
Physical Specifications Weight(Without Stand) 7.7kg	Supplied Accessories		
	Physical Specifications Weight(Without Stand)		7.7kg

<sup>\*</sup>The monitor stand is not included with the surgical monitor.

### LG Electronics Inc.

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