27HK510S

LG 27'' Full HD IPS Surgical Monitor

1/9

Key Features

27"FHD IPS Display (1920x1080)

sRGB 115%(Deep Red)
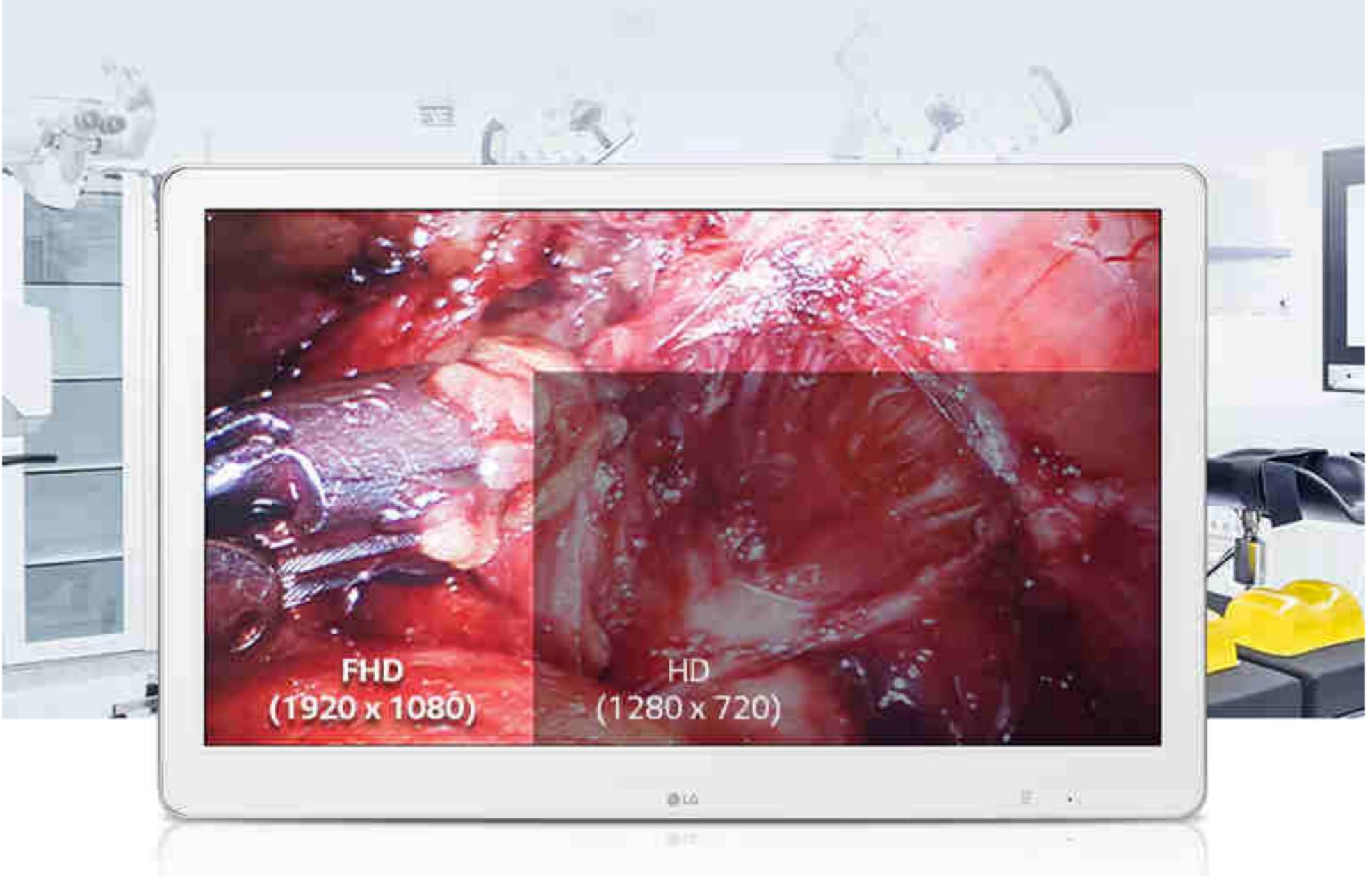
Brightness Stabilization

Show More

ADD TO COMPARE

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LG 27'' Full HD IPS Surgical Monitor

1/9

OVERVIEW   **SPECS**   RESOURCES

A Display Optimized for Compatibility

The detailed picture quality of the LG surgical monitor meets operating room requirements. With its 27-inch Full HD IPS Display, the LG surgical monitor improves work efficiency.
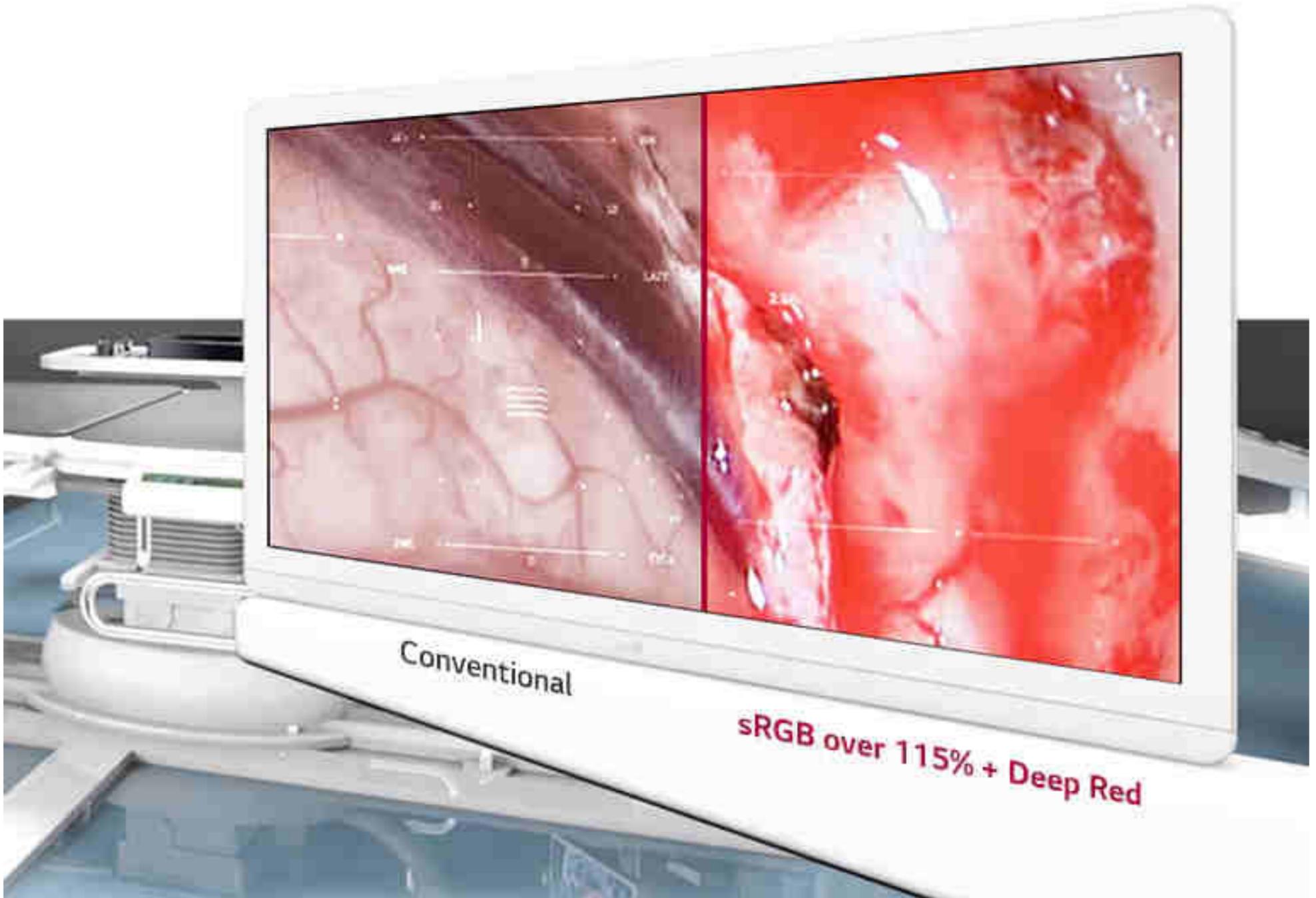

IPS

2MP

sRGB 115%

Brightness Stabilization

Flicker Safe

OVERVIEW   SPECS   RESOURCES

Optimal Image Quality
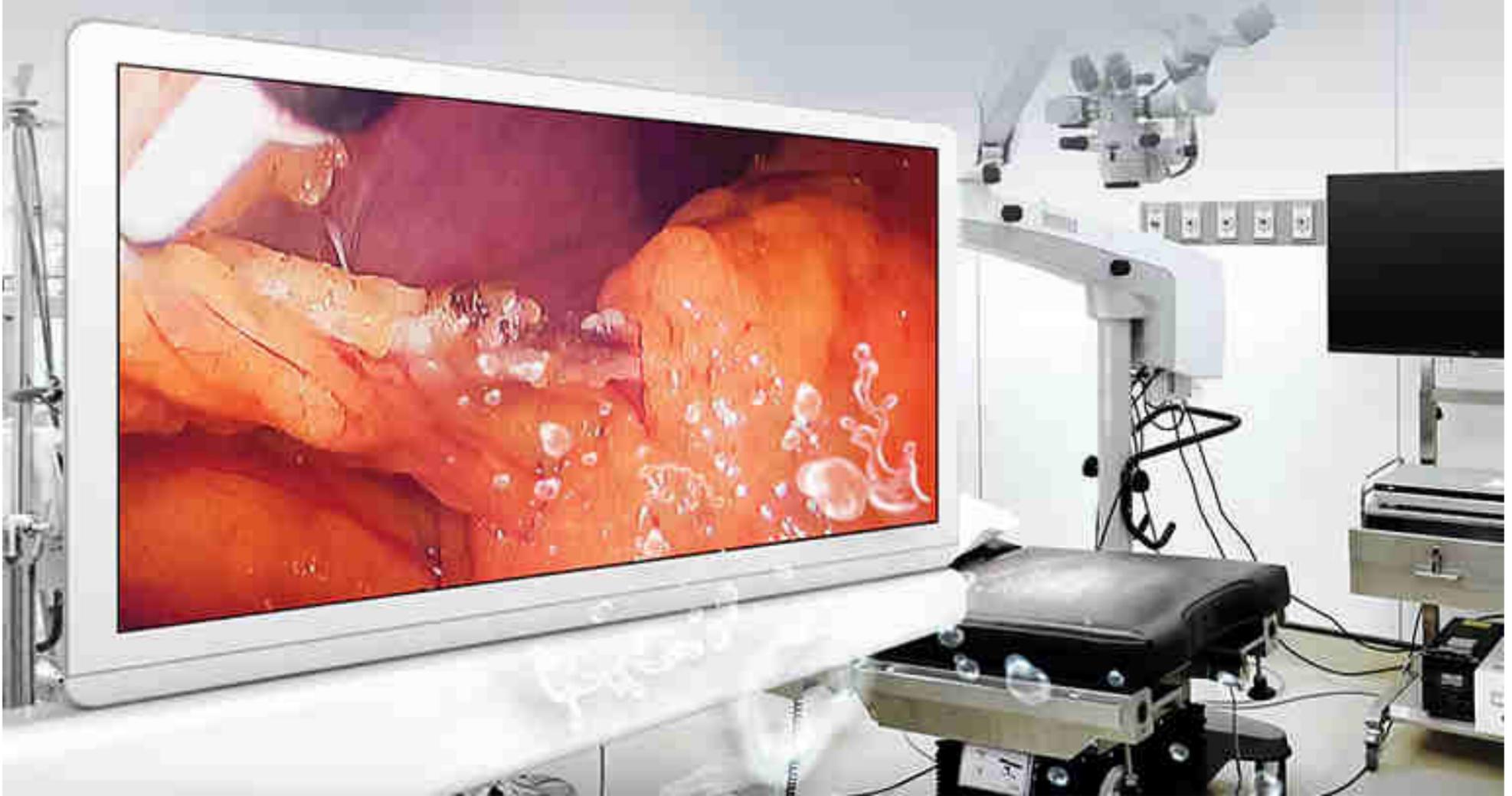
sRGB 115%(Deep Red)

The Full HD IPS display with sRGB 115% (Deep Red) is designed to fit with other Full HD surgical devices. It enables surgeons to view accurate, realistic images
especially in the red color spectrum.

Brightness Stabilization

The LG surgical monitor carefully measures and sets every grayscale tone to create a monitor compliant with DICOM Part 14. Furthermore, LG's surgical monitors offer
stabilized brightness settings.

* DICOM (Digital Imaging and Communications in Medicine): Standard applied to the grayscale tone characteristics of monitors used in the medical field.

OVERVIEW   SPECS   RESOURCES

Designed for the Operating Room

OVERVIEW   SPECS   RESOURCES

Dustproof & Waterproof

To ensure protection against contact with objects 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.

OVERVIEW   **SPECS**   RESOURCES

Protection Glass

The LG surgical monitor with protection glass provides a more durable display by safeguarding the monitor from water and bodily fluids and making it easier to clean.

OVERVIEW   **SPECS**   **RESOURCES**

Reduces Visual Fatigue

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

DISPLAY

Aspect Ratio	16:9
Backlight Dimming Technology	Global Dimming
Backlight Technology	LED
Brightness (Typ.)	1000 cd/m²
Brightness (Stabilization)	600 cd/m²
Color Bit	10bit
Color Gamut (Typ.)	sRGB 115%(Area), sRGB over 99%(Coverage)
Contrast Ratio (Typ.)	1000:1
Pixel Pitch(H x V)	0.3114mm x 0.3114mm
Resolution	1920x1080
Response Time (GTG)	14ms(Off-setting), 5ms(Faster-setting)
Size (Diagonal, Inch)	27
Size (H x V)	597.89 x 336.31mm (23.54 x 13.24")

OVERVIEW   SPECS   RESOURCES

Viewing Angle (CR≥10)	178° (Right/Left), 178° (Up/Down)

FEATURE

Hot Key	Yes (2keys)
Brightness stabilization	Yes
Black Stabilizer	Yes
HW Calibration	Yes(LG Calibration Studio)
DICOM Compliant	Yes
Color Temperature	6500K / 7500K / 9300K Manual (5000K ~ 10000K)
Flicker safe	Yes
PBP	Yes (2PBP)
PIP	Yes
Failover Input Switch	Yes
Smart Energy Saving	Yes
Super Resolution+	Yes

SW APPLICATION

LG Calibration Studio (True Color Pro)	Yes

CONNECTIVITY

3G-SDI	Yes (3G,INx1/OUTx1)
D-Sub	Yes
DVI	DVI-D (In)/DVI-D(Out)
HDMI	Yes (1ea)
Component	Yes
RS-232	Yes (1ea)
USB Downstream Port	Yes(1ea/ver3.0)
USB Upstream Port	Yes (1ea/ver3.0)

POWER

AC Input	100-240Vac, 50/60Hz
DC Output	

OVERVIEW   **SPECS**   RESOURCES

Power Consumption (DC Off)	Less than 0.3W
Power Consumption (Max.)	120W
Type	External Power(Adapter)

MECHANICAL

Borderless Design	Normal
Display Position Adjustments	No Stand
Down Height	No Stand
Height Range	No Stand
Machanical Power Switch	Yes
OneClick Stand	No Stand
Pivot	No Stand
Swivel	No Stand
Tilt	No Stand
Wall Mount Size	200x100mm/100x100mm

DIMENSIONS/WEIGHT

Dimension in Shipping (W x H x D)	743x157X496 mm
Dimension with Stand (W x H x D)	No Stand
Dimension without Stand (W x H x D)	656.4x412.9x62.2mm
Pallet Stuffing (20ft/40ft/40ft HC)	420 / 900 / 900
Weight in Shipping	11.3kg(24.9lb)
Weight with Stand	No Stand
Weight without Stand	7.7kg (17lb)

STANDARD

IEC (IEC 60601-1 / IEC 60601-1-2)	Yes
EN (EN 60601-1 / EN 60601-1-2)	Yes
IEC (IEC 60950-1 & IEC 62368-1 / CISPR 32, 35)	Yes
EN (EN 62368-1 / EN 55032, 55035)	Yes
cUL (ANSI/AAMI ES 60601-1, CSA CAN/CSA-C22.2 NO. 60601-1)	Yes

OVERVIEW   SPECS   RESOURCES

FDA	Registration (Class I)
ISO13485	Yes
RoHS	Yes
REACH	Yes
WEEE	Yes
MFDS	Yes
IP(front/except for front)	IP35/IP32
Vandal-proof	IK06

ACCESSORY

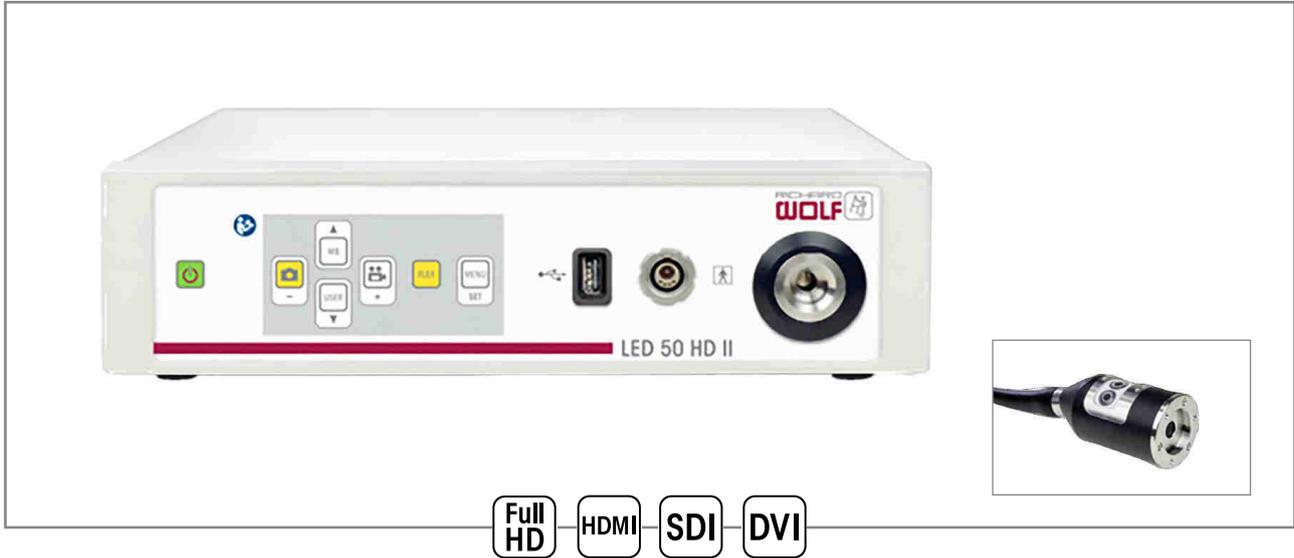| Adapter	Yes
Calibration Report (Paper)	Yes
D-Sub	Yes
DVI-D	Yes
HDMI	Yes
Power Cord	Yes

PHYSICAL SPECIFICATIONS

Weight(Without Stand)	7.7kg

To access more technical documentation and downloads, please visit the **LG B2B Partner Portal.**

LED 50 HD II
Camera control unit

Full HD | HDMI | SDI | DVI

- Camera and light source in a single device
- Small design – low space requirement
- Connection option for C-Mount lenses

- Connection of Richard Wolf light cables without light source adapter
- Image and video recordings on USB using camera head buttons
- Use-specific camera profiles

LED 50 HD II **862-2512**

Consisting of:
1x camera control unit
1x camera head (ECOHDII) with 3.05 m (10 ft) cable
1x power cable
1x HDMI-DVI cable

LED 50 HD II
Technical data of camera control unit

LED 50 HD II	862-2512
Device properties	
Max. native video signal resolution	1,920 x 1,080 pixels
Type and number of lamps	LED
Brightness in lumens	Approx. 950 lm
Light output	50 W
Digital zoom	10x max.
Operating conditions	+10 °C to +40 °C, 30 % to 75 % rel. humidity, atmospheric pressure 700 hPa to 1,060 hPa
Image format of saved pictures / videos	JPG (1,920 x 1,080) / Full HD 1,920 x 1,080
Equipment	
IP rating	IP 20
Camera head	
Sensor:	1x 1/ 2″ CMOS
Operation:	3 programmable head buttons
Lens thread:	C-Mount
Sensitivity:	< 3 lux (1/1.4)
Power supply	
Mains + frequency	100–240 V AC, 50/60 Hz
Power consumption	95 VA
Regulatory standards	
Safety	US/CA: UL 2601-1 / CSA C22.2 NO.601.1, EU: EN 60601
EMC	EN 60601-1-2
Medical device class	Class 1
Classification of applied part	BF
Interfaces	
Video outputs	1x HDMI, 1x DVI, 1x SDI, 1x video
Resolution	1,920 x 1,080 / 60p (16:9)
USB port	USB
Dimensions and weights	
Weight	Device: 3 kg / camera head: approx. 180 g
Dimensions (W x H x D)	Device: 295 x 128 x 278 mm / camera head: d = 38 mm; l = 79 mm

FLUID CONTROL Arthro 2204

Suction and irrigation pump for arthroscopy
with automatic tube recognition

FLUID CONTROL Arthro
is a new pump system for arthroscopy and fully endoscopic spinal surgery. The particular strength of this system lies in a practical combination of high performance and a cost-effective overall concept.
The new software and technical enhancements make the **FLUID CONTROL Arthro** ideal for diagnostic and therapeutic arthroscopies.

FLUID CONTROL Arthro has already been prepared for integration in core, the digital OR from Richard Wolf.

FLUID CONTROL Arthro 2204

Suction and irrigation pump for arthroscopy
with automatic tube recognition

Arthro/spine suc./irrig.pump bndl

for arthroscopy **...** **22040011**

Comprising:

1 x arthro/spine suc./irrig.pump 200mmHG.............................. 2204001
1 x irrigation tube set spike   8171223
1 x tube set for vacuum, incl. filter   2206207
1 x protection filter for gas filtration 4171.121
1 x power cable 2440.03

Arthro/spine suc./irrig.pump bndl

with Spine Mode software module for arthroscopy and
fully endoscopic spinal surgery **..................................** **22040012**

Comprising:

1 x arthro/spine suc./irrig.pump 200mmHG 2204001
1 x Spine mode software module 2204101
1 x irrigation tube set spike   8171223
1 x tube set for vacuum, incl. filter 2206207
1 x protection filter for gas filtration 4171.121
1 x power cable 2440.03

Recommended accessories		Product no.
Footswitch		2204901

FLUID CONTROL Arthro 2204

Irrigation and suction pump for arthroscopy with automatic tube recognition
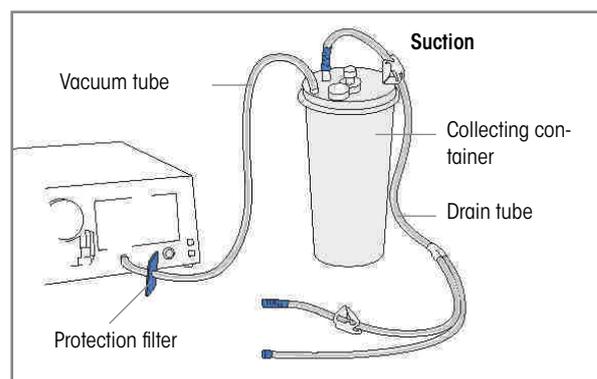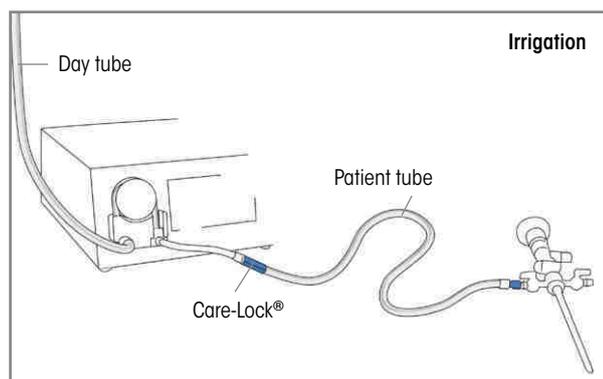
Day-patient tube set

From two interventions/patients per day:

Use the **day-patient tube set,** which comprises a day tube and a connected patient tube. The day tube remains in the pump throughout the day, while the patient tube has to be changed for each operation. The irrigation fluid bag can remain on the pump until it has been completely used up. **This significantly reduces the amount of waste and cuts costs. Further tube versions are available to complement the system.**

Note: The use of the day-patient tube set has not been approved for the Spine Mode application.

Irrigation			Product no.
Accessories – reusable	**Irrigation tube set spike**	With Luer-Lock connection, autoclavable, incl. 10 spare membranes, reusable for 20 reprocessing cycles	**8171223**
Accessories – disposable	**Irrigation tube set with spike L 3 m**	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product	**4171223**
	Irrigation tube set CARE-LOCK, L 3 m	(PACK= 10 PCS), sterile, disposable product	**4171224**
	Day irrigation tube set	(PACK= 10 PCS), with piercing spike, sterile disposable product, PVC	**4171226**
	Patient irrigation tube set L 3m	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product, PVC	**4171227**

Note: Day tube and patient tube can only be used together. A new patient tube is required for each patient – the day tube can be used for up to 20 patients.

Suction			Product no.
Accessories – reusable	**Tube set for vacuum, incl. filter**	with integrated hygiene filter, PACK= 10 PCS, service life of 30 days (connected to irrigation pump)	**2206207**
Accessories – disposable	**Secretion container, 2 L**	2 liters, no lid	**8170.6551**
	Secretion container, 2.5 L	2.5 liters (PACK= 2 PCS)	**41706566**
	Tube set for suction (with 2 ports)	sterile, disposable, (PACK= 10 PCS) for connecting instruments to collecting container	**T0503-01**

Technical Data

FLUID CONTROL Arthro 2204

Ortho112

Arthro/spine suc./irrig.pump 200mmHG	2204001
Power supply connection	100–240 VAC, 50/60 Hz
Power consumption	118 VA
Protection class to VDE 0750 / IEC 601	1
Classification	CF
Pressure range (infinite preselection)	15–200 mmHg
Delivery rate (can be preselected in 50 ml increments)	0–2 l/min
Dimensions (W x H x D)	300 x 157 x 436 m
Weight	8.3 kg
Interfaces	USB / CAN bus (core) service interface