



27-inch Full HD IPS Surgical Monitor

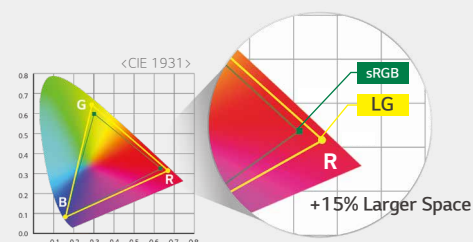
| 27HK510S |

Optimal Image Quality for Fine Surgery

Full HD* IPS Display with sRGB 115%

The Full HD IPS display with sRGB 115% is designed to fit with other Full HD surgical devices. It enables surgeons to view accurate, realistic images by maximizing compatibility and clearer, brighter color reproduction, especially in the red color spectrum.

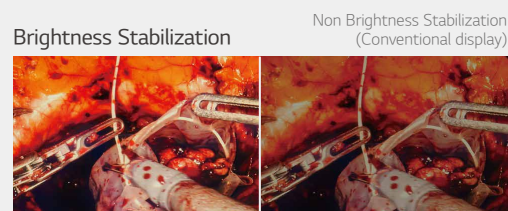
*Full HD : 1920x1080



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. In addition, sensors measure backlight brightness and automatically compensate for fluctuations in brightness caused by ambient temperature and aging for a consistently stable display.

*DICOM: Digital Imaging and Communications in Medicine.



Designed for Use in the Operating Room

IP35 (Front) & IP32 (Except for Front) : Dustproof & Water Resistant

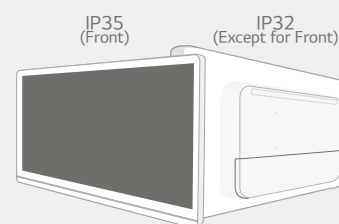
To ensure protection against contact with substances such as blood or bodily fluids, LG Surgical Monitors are cleanable and durable, with ratings of IP35 on the front and IP32 on the rest, securing them from any direction.



Dustproof



Water Resistance



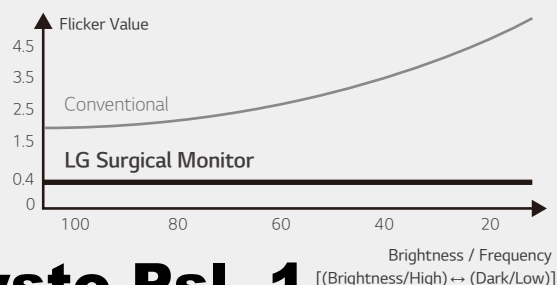
Anti-reflection | Anti-fingerprint

The LG Surgical Display with anti-reflection screen reduces glare so your surgical display is easier to see in challenging and changing indoor lighting conditions. Also, its anti-fingerprint screen provides resistance to the appearance and attachment of fingerprints and smudges.

Long-lasting Eye Comfort

Flicker Safe

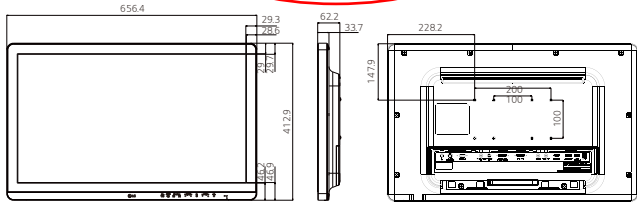

Flicker Safe reduces the onscreen flicker level to almost zero, which helps minimize eye strain and eye fatigue. By combining Flicker Safe with the proven picture quality of IPS technology, users can comfortably work throughout the day.



*This result based on internal LGE lab tests.

Specification

1.

Model		27HK510S
		 
Panel	Panel Type	IPS
	Inch (Aspect Ratio)	27-inch (16:9)
	Resolution	Full HD (1920 x 1080)
	Surface Treatment	Protection Glass (1.6t, Anti-reflection, Anti-fingerprint)
	Color Gamut (Typ.)	sRGB 115% (Area), sRGB over 99% (Coverage)
	Viewing Angle (CR≥10)	178°(Right/Left), 178°(Up/Down)
	Brightness (Typ.)	1000cd/m ²
	Contrast Ratio (Typ.)	1000:1
Feature	Response Time (GTG ¹⁾)	14ms (Off-setting), 5ms (Faster-setting)
	DICOM Compliant	Yes
Video Signals	HW Calibration	Yes (True Color Pro)
	Input Terminals	HDMI x1, S-Video x1, Composite x1, 3G-SDI x1, DVI-I x1, D-Sub x1 (DSUB to DVI-I Gender Cable), Component x1 (DSUB to DVI-I Gender Cable)
	Out Terminals	3G-SDI x1, DVI-D x1
Connectivity	USB	1 upstream, 1 downstream
Power	AC Input	100-240Vac, 50/60Hz
	Power Consumption (Max.)	120W
	Power Consumption (DC Off)	Less than 0.3W
Resistance Rating		IP35 (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 A), FDA (Registration (Class I)), RoHS, REACH, WEEE
User Convenience	PBP / PIP	Yes (2 PBP) / PIP
	Failover Input Switch ²⁾	Yes
Physical Specifications		Weight (without stand) 7.7 kg (17 lb)

1) GTG : Gray to gray response time

2) Failover Input Switch will be available from May 22, 2020.

*The monitor stand is not included with the surgical monitor.



LG Electronics Inc.

<http://www.lge.com/global/business>

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Katalogo Cysto Psl. 2

ENDOCAM Logic HD lite
Camera controller

2.



ENDOCAM Logic HD Lite camera controller

bndl **55252011**

Comprising:

1x ENDOCAM Logic HD Lite camera controller	5525201
1x hand-held remote control USB	5525401
1x USB flash memory 8GB	56540028
1x HDMI / DVI-D cable, lockable 3.0 m	103843
1x power cable	2440.03
1x 5525 DVD license open-source software	64360816

- Maximum quality at a minimum price
- Basic functions
- User-friendly

2.1

ENDOCAM Logic HD lite

Technical data of camera controller

ENDOCAM

1

Camera controller		5525201
Device properties		
Type of controls	Mechanical button	2.1
Max. video signal resolution	1920 x 1200 pixels	2.3
White balance, color temperature range	2300K to 7000K	2.2
Noise level	34 dB to 48 dB max.	
Digital zoom	1.5x max.	
Individually configurable profiles	at least 5 profiles	
Brightness control	Automatic shutter control + automatic gain control	
Image format of saved pictures / videos	JPEG, TIFF (max. 1920 x 1080)	
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1060 hPa	
Operating mode	Continuous operation	
Equipment		
IP rating	IP 20	
Cooling method	Controlled fan	
Power supply		
Mains + frequency	100 - 240 VAC, 50 / 60 Hz	
Power consumption	100 VA	
Current rating	max. 1.0 A	
Regulatory standards		
Safety	US/ CA: UL 2601-1 / CSA C22.2 NO.601.1, EU: EN 60601	
EMC	EN 60601-1-2 / IEC 601-1-2	
Medical device class	Class 1	
Classification of applied part	CF	
Interfaces		
Video outputs	2x HDMI	2.4
Remote output	2 x 3.5 mm jack, stereo	
USB port (on front panel, for external storage media)	USB 2.0 (FAT32/NTFS formatting)	
Resolution (HDMI output)	Adjustable in the user menu 1280 x 1024/60P (5:4) 1920 x 1080/60P (16:9)	1920 x 1200/60P (16:10)
Dimensions and weights		
Weight	5.2 kg	
Dimensions (W x H x D)	300 x 120 x 416 mm	

ENDOCAM Logic HD

1-chip HD camera head

ENDOCAM

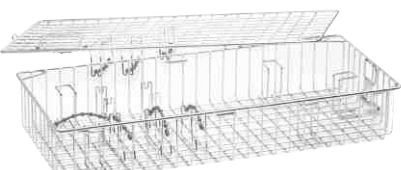
1



- Digital image processing and signal transmission
- 2 programmable camera head buttons with 4 available functions
- Universal C-Mount lens connection
- Cable outlet angled at 30°
- Camera head cable can be replaced in the hospital by technicians
- Steam-sterilizable
- Can be reprocessed by machine
- Suitable for low-temperature procedure

ENDOCAM Logic HD camera head **85525902**

1-chip type, cable length 2.5 m

Recommended accessories		Product no.
RIWO lens	C-Mount, f = 14 mm	85261144
	C-Mount, f = 24 mm	85261244
RIWO zoom lens	C-Mount, f = 13 - 29 mm	85261504
	Perforated basket for camera head (L x W x H) 448 x 200 x 73 mm	38002

ENDOCAM Logic HD

Technical data of camera head

ENDOCAM

1




Camera head 85525902	
Device properties	
Sensor	1x1/3" CMOS
Operation	2 programmable head buttons with 4 functions
Operating conditions	+10°C to +30°C, 20% to 75% rel. humidity, atmospheric pressure 700 hPa to 1060 hPa
Equipment	
Thread for objective lens	C-Mount
Degree of protection against the ingress of moisture	IPX7
Service	Cable and eyepiece snap-in coupling can be replaced on site
Dimensions and weight	
Camera head weight (without cable)	95 g
Housing dimensions (W x H) - without cable and anti-kink protection	34 x 36 mm
Camera head length (without cable)	114 mm
Cable length	2.5 m
Cable outlet	30°

2.7

2.5

2.6

RIWO lenses

RIWO zoom lens with snap-on mechanism and C-Mount thread, steam-sterilizable and reprocessable by machine		Product no.
 <p>AUTOCLAVE 134° C / 273° F</p>	RIWO zoom lens f = 21 - 36 mm	85261.501
RIWO zoom lens with snap-on mechanism and C-Mount thread, steam-sterilizable and reprocessable by machine		
 <p>AUTOCLAVE 134° C / 273° F</p>	RIWO zoom lens f = 13 - 29 mm	85261504
RIWO zoom lens with snap-on mechanism and C-Mount thread, reprocessable by machine and suitable for low-temperature procedure		
	RIWO zoom lens f = 13 - 29 mm	5261504
RIWO lens with snap-on mechanism and C-Mount thread, steam-sterilizable and reprocessable by machine		
 <p>AUTOCLAVE 134° C / 273° F</p>	RIWO lens f = 14 mm	85261144
	RIWO lens f = 24 mm	85261244
RIWO lens with snap-on mechanism and C-Mount thread, steam-sterilizable and reprocessable by machine		
 <p>AUTOCLAVE 134° C / 273° F</p>	RIWO lens f = 27 mm	85261.272
	RIWO lens f = 32 mm	85261.322

ENDOLIGHT LED 1.2

LED light source



- The light output is comparable to a 180-watt xenon illuminant
- The LED service life is at least 30,000 hours
- The LED light source reduces power consumption by up to 80% compared to an equivalent xenon light source
- Extremely quiet ventilation concept at only 25 dB(A) noise level
- Light cables from different manufacturers (Richard Wolf, Storz, Olympus, ACMI) can directly be connected to the multi-port socket

- Automatic dimming of the light cable socket if the light cable is removed
- Very homogenous illumination of the endoscopic surgical area. No drop in brightness in the peripheral area and no "black spot" in the center
- Very stable color temperature (6500 Kelvin) over the entire LED service life
- The key brightness is automatically adjusted to the ambient light and so legibility is always good, without any glare

Light source ENDOLIGHT LED 1.2

bndl **51610011**

Comprising:

1x ENDOLIGHT LED 1.2 5161001
1x power cable 2440.03

ENDOLIGHT LED1.2

Technical data






ENDOLIGHT LED 1.2		5161001
Device properties		
Type and number of lamps	1x high-power LED	
Lamp service life	30,000 h	3.4
Brightness in Lumen	1000 lm	
Light output compared to xenon in W	180 W	
Color temperature	6500 K	3.3
Brightness control	0 - 100%	
Noise level	25 dB(A)	3.6
Operating mode	Continuous operation	
Operating conditions	+10°C to +40°C, 30% to 75% rel. humidity, atmospheric pressure 700 hPa to 1060 hPa	
Equipment		
Supported light cables	Wolf, Storz, Olympus, ACMI	
IP rating	IP 20	
Cooling method	Fan	
Power supply		
Mains + frequency	100-240 VAC, 50/60 Hz	
Power consumption	120 VA	
Current rating	1.1-0.5 A	
Regulatory standards		
Safety	EU: EN 60601-1	
EMC	EN 60601-1-2 / IEC 601-1-2	
Medical device class	Class 1	
Classification	CF	
Dimensions and weight		
Weight	8.9 kg	3.5
Dimensions (W x H x D)	150 x 120 x 424 mm	

Fiber light cable

with color coding

4.2

4.1

Fiber light cable, complete	Color coding on endoscope side	Ø of fiber bundle and color code	Length	Fiber light cable without adapter Product no.	Complete Product no.
 <p>Fiber light cable, bndl Comprising: Fiber light cable, Adapter, projector side (8095.07), and adapter, endoscope side (809509)</p>		1.6 mm blue	1.8 m	80661618*	806616181
			2.3 m	80661623*	806616231
			3.0 m	80661630*	806616301
		2.5 mm green	1.8 m	80662518*	806625181
			2.3 m	80662523*	806625231
			3.0 m	80662530*	806625301
		3.5 mm orange	1.8 m	80663518*	806635181
			2.3 m	80663523*	806635231
			3.0 m	80663530*	806635301
			3.5 m	80663535*	806635351
		5.0 mm grey	2.3 m	80665023*	806650231
			3.0 m	80665030*	806650301
			3.5 m	80665035*	806650351

* The light cables can also be ordered without adapter.
Adapters for connecting products from other manufacturers are offered as separate items in our product range.

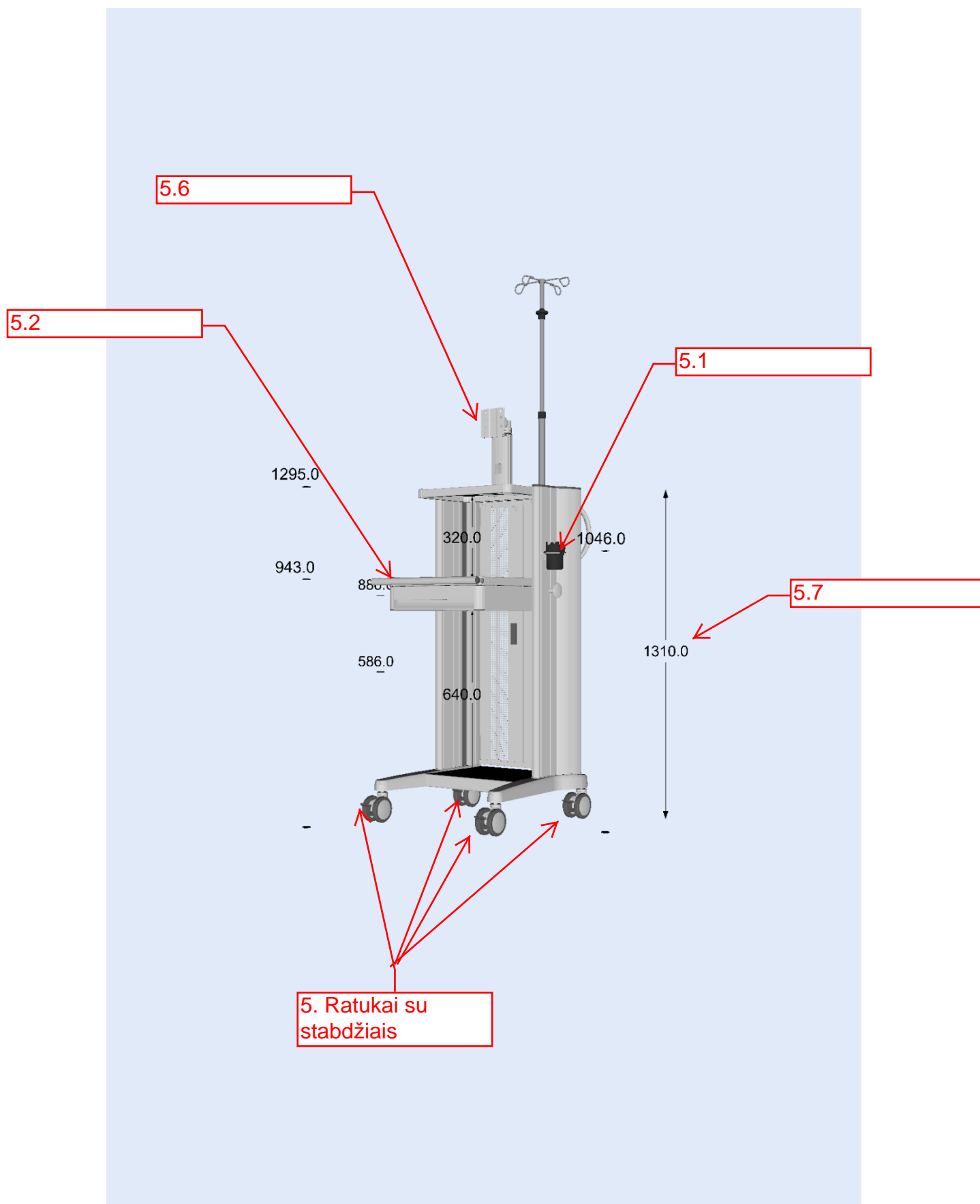
V/21 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

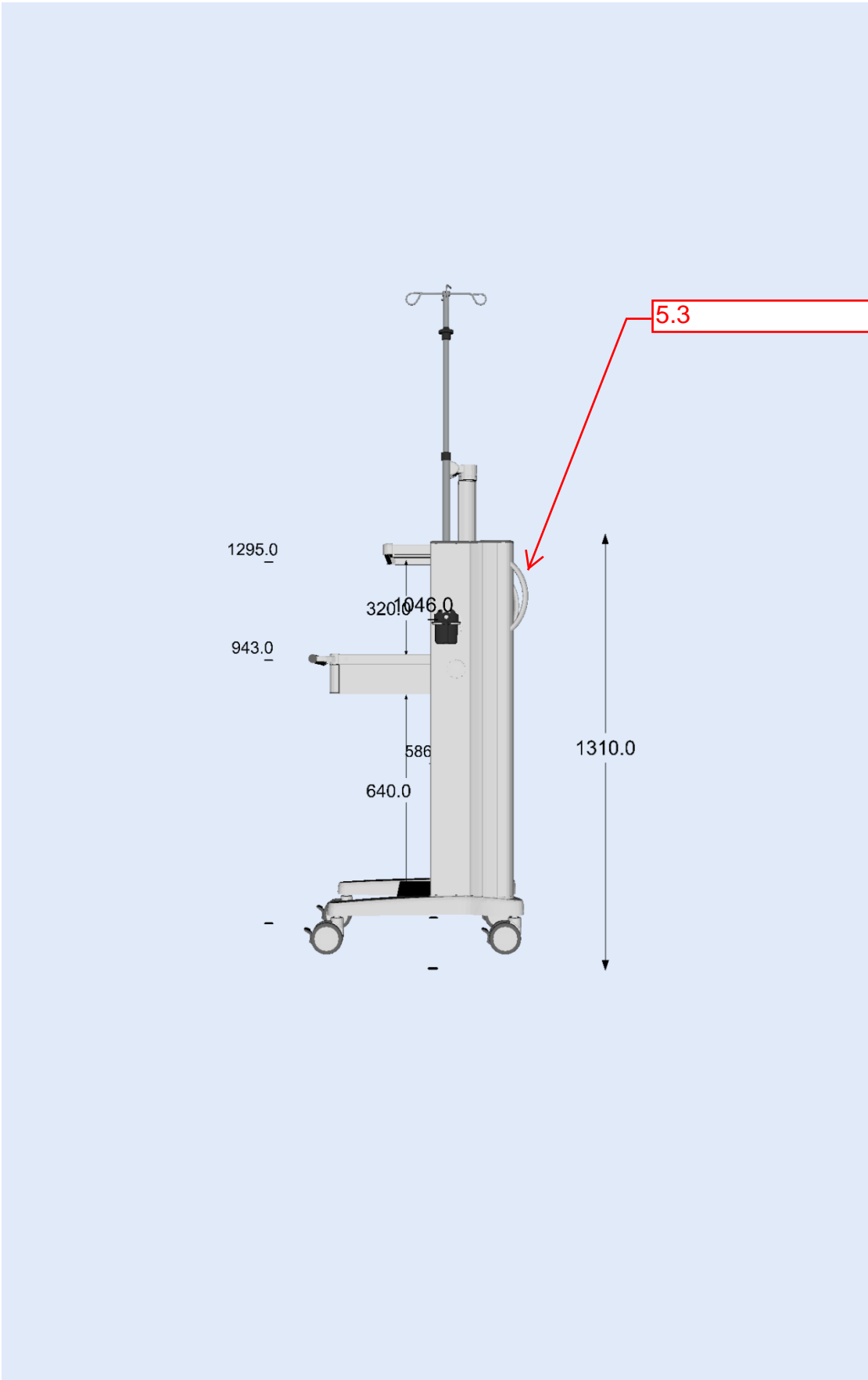
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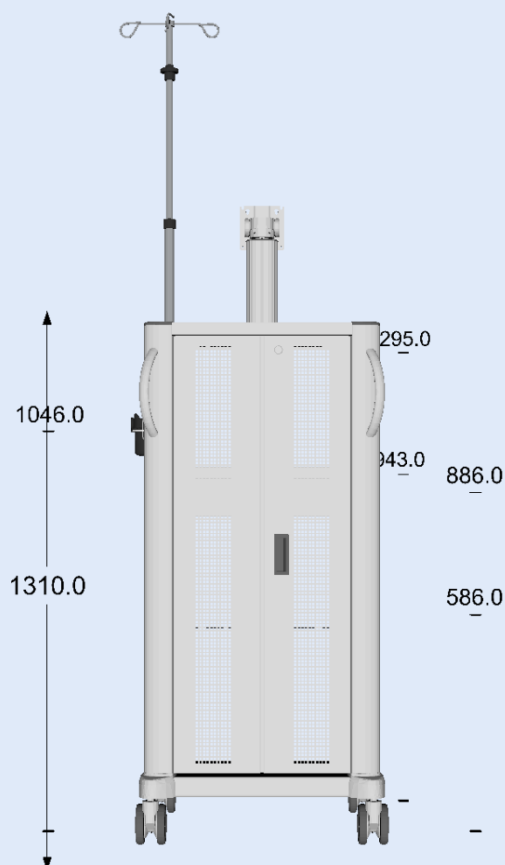
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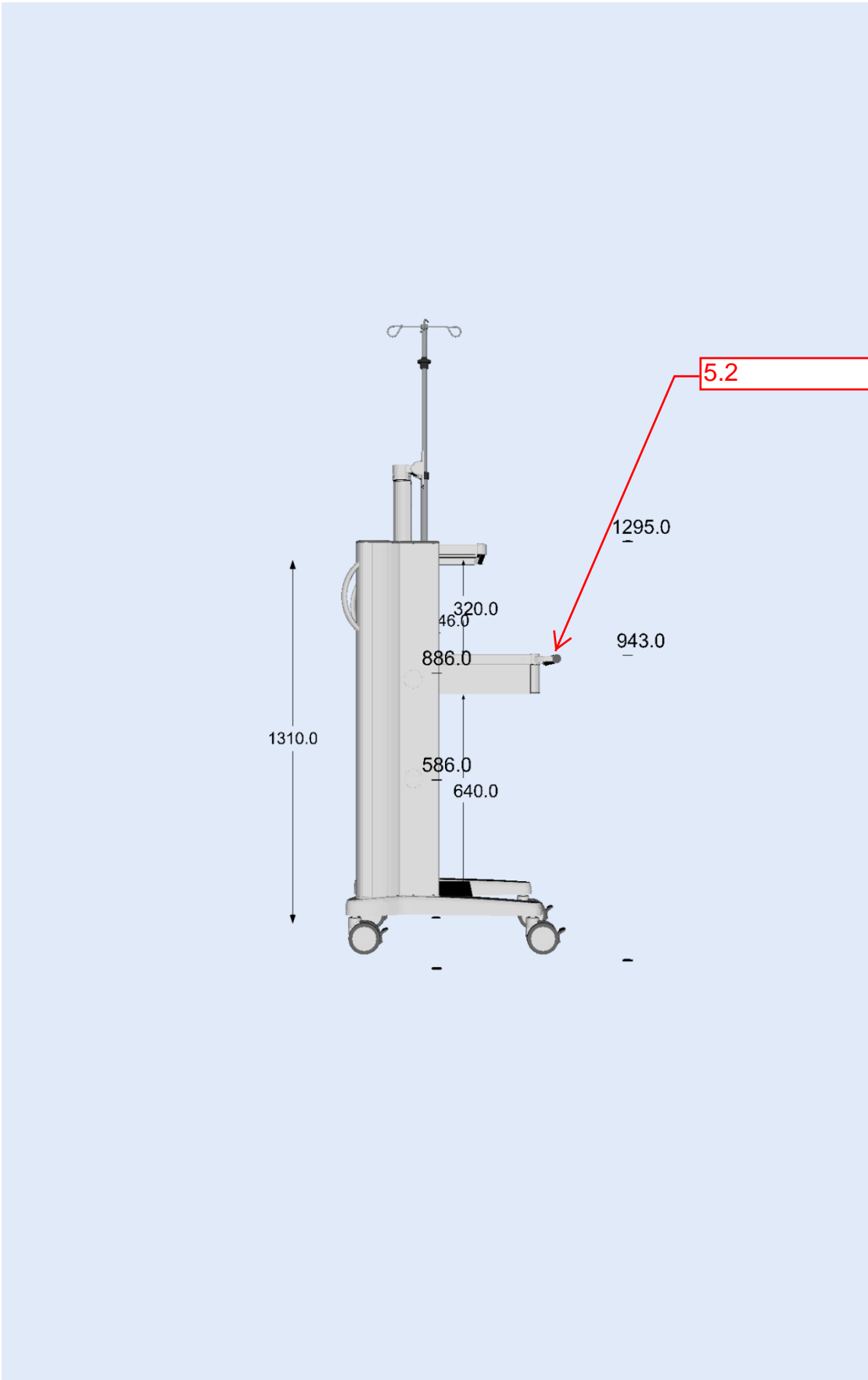
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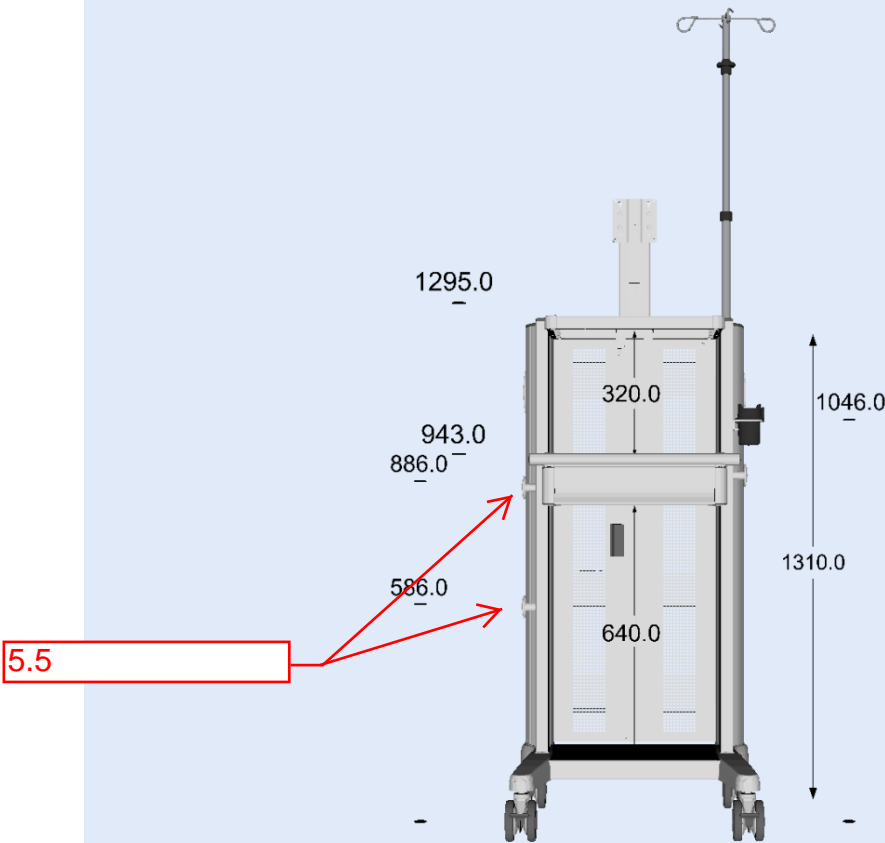
View ISO:











list of parts

Pos. 1 Basic frame compact-cart

Variant	Basic frame compact-cart "Profi"
Installation width	450 mm
Installation height	Vertical profiles: 35 U (1120 mm)
Castors	Ø 100 mm (Standard in basic frame)
Push handle, rear	Yes
Rear doors set, Cable and hose passage	Rear doors set
Basic color	RAL 7035 light grey
Decorative color	RAL 7035 light grey
Basic frame item number	CC.4504.903
Push handle, rear item number	FC.0215.991
Rear doors set item number	CC.4561.991

Pos. 2 Socket strips Schuko 8-way, with on/off switch and earthing contact

Item number	ZV.9565.999
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Pos. 3 Shelf 24 U

Installation height	24 U
Item number	CC.4521.903

Pos. 4 Drawer 23 U

Installation height	23 U
Item number	CC.4540.903

Pos. 5 VESA 75 / 100 on the monitor shelf 14-18 / 30.8-39.6 lbs 35 U

Installation height	35 U
Item number	CC.4584.903

Pos. 6 Camera holder with cup 27 U

Installation height	on the vertical extrusion right
Installation height	27 U
Item number	ZV.9199.800

Pos. 7 IV pole with one-hand adjustment in the vertical extrusion right

Installation position	in the vertical extrusion right
Item number	ZV.9882.999

Pos. 8 Cable winders 22 U

Installation position	on the vertical extrusion, left
Installation height	22 U
Item number	FC.0253.991