



UG 230

**Equipment Cart LC**, rides on 4 antistatic dual wheels equipped with locking brakes, energy beam with integrated electrical subdistributors with 6 sockets, grounding plugs,

Dimensions:

Equipment cart: 830 x 1474 x 730 mm (w x h x d),

Shelf: 630 x 25 x 510 mm (w x h x d),

Caster diameter: 125 mm

including:

**Base Module**, equipment cart LC

**Cover**, equipment cart LC



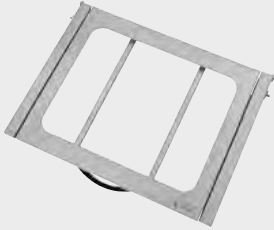


**Beam Package**, equipment cart LC

**Shelf**, wide

**Drawer Unit with Lock**, wide

**Camera Holder**

2x **Mains Cord**, length 100 cm

	<p>UG 603      <b>Shelf</b>, narrow, load capacity max. 60 kg, dimensions: 450 x 25 x 510 mm (w x h x d), for use with Equipment Carts UG xxx</p> <p>UG 604      <b>Shelf</b>, wide, load capacity max. 60 kg, dimensions: 630 x 25 x 510 mm (w x h x d), for use with Equipment Carts UGxxx</p>
	<p>UG 601      <b>Drawer Unit with Lock</b>, small, max. shelf load 60 kg, max. drawer load 5 kg, with cable slot, dimensions: 450 x 126 x 510 mm (w x h x d), for use with Equipment Carts UG xxx</p> <p>UG 602      <b>Drawer Unit with Lock</b>, wide, max. shelf load 60 kg, max. drawer load 5 kg, with cable slot, dimensions: 630 x 126 x 510 mm (w x h x d), for use with Equipment Carts UG xxx</p>
	<p>UG 610      <b>Sliding Tray Holder</b>, narrow, load capacity max. 10 kg, dimensions: 450 x 510 mm (w x d), for use with Equipment Carts UG xxx</p> <p>UG 611      <b>Sliding Tray Holder</b>, wide, load capacity max. 10 kg, dimensions: 630 x 510 mm (w x d), for use with Equipment Carts UG xxx</p>
	<p>UG 608      <b>Equipment Rail</b>, long, for mounting to side of equipment cart, dimensions: 300 x 25 x 10 mm (w x h x d), for Equipment Carts UG xxx</p> <p>UG 607      <b>Equipment Rail</b>, short, for mounting to side of equipment cart, dimensions: 170 x 25 x 10 mm (w x h x d), for Equipment Carts UG xxx</p>
	<p>UG 619      <b>Cable Manager</b>, 2-piece, for mounting to vertical beam, package of 2, for use with Equipment Carts UG xxx</p>

## CO<sub>2</sub> Adaptor Set for Bottle Holder



UG812

**Adaptor Set for Bottle Holder**, COR mobile stand, two elements, dimensions in mm (w x h x d): 49 x 162 x 65 and 49 x 252 x 65, for use with Beam Modules UG801 and UG802 and CO<sub>2</sub> Bottle Holder UG609

UG609

**Bottle Holder**, for CO<sub>2</sub> bottles, max. diameter 210 mm, dimensions in mm (w x h x d): 230 x 280 x 210, for use with Equipment Carts UGxxx

## Suction Canister Holder for COR Mobile Stand



UG814

**Suction Canister Holder**, COR mobile stand, dimensions in mm (w x h x d): 210 x 276 x 256, for use with Guardian Suction Canister 030306-04

## Footswitch Holders



UG901

**Footswitch Holder**, for use with One-Pedal Footswitch UF901



UG902

**Footswitch Holder**, for use with Two-Pedal Footswitch UF902 and one- and two-pedal universal footswitches



29005EFH

**Footswitch Holder**, for one-pedal footswitch



29005DFH

**Footswitch Holder**, for two- and three-pedal footswitches

## Camera Head Holder



29005KHN

**Camera Holder**, for mounting camera heads, with removable inserts, compatible with all KARL STORZ endoscopic camera heads, for mounting to equipment rails



UG 612

**Camera Holder**, for mounting camera heads, with detachable inlays, compatible with all endoscopy cameras from KARL STORZ, for use with Equipment Carts UG xxx



UG 622

**Camera Holder, eyepiece**, for holding camera heads, compatible with all KARL STORZ endoscopy camera heads with standard eyepiece mounts, for use with Equipment Carts UG xxx



UG 609

**Bottle Holder**, for CO<sub>2</sub> bottles, max. diameter 210 mm, dimensions: 230 x 280 x 210 mm (w x h x d), for use with Equipment Carts UG xxx



UG 627

**Adaptor Plates, for twin CO<sub>2</sub> bottle holder**, for 2 CO<sub>2</sub> bottles in combination with 2x UG 609 Bottle Holder, max. diameter 210 mm, dimensions in mm (w x d): 1x 250 x 250 mm and 1x 250 x 150 mm, for use with Equipment Carts UG xxx including:  
2x **Adaptor Plates**  
10x **Counterscrews M6x12**  
10x **Spring Nuts M6**



UG 623

**Multifunctional Holder**, 2-part, for mounting poles, diameter 25 mm, package of 2, for use with Equipment Carts UG xxx



UG 623L

**Multifunctional Holder**, long, 2-part, for mounting poles, diameter 25 mm, package of 2, for use with Equipment Carts UG xxx



UG 310 **Isolation Transformer**, 200 – 240 V, 2000 VA, with 3 special mains socket, automatic cutout, 3 grounding plugs, Dimensions: 330 x 90 x 495 mm (w x h x d), for use with Equipment Carts UG xxx

UG 300 **Same**, 100 – 120 V



UG 410 **Earth Leakage Monitor**, 200 – 240 V, for mounting to equipment carts, control panel dimensions: 44 x 80 x 29 mm (w x h x d), for use with Isolation Transformer UG 310

UG 400 **Earth Leakage Monitor**, 100 – 120 V, for mounting to equipment carts, control panel dimensions: 44 x 80 x 29 mm (w x h x d), for use with Isolation Transformer UG 300



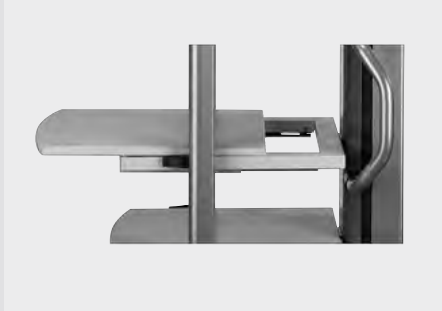
UG 700 **Mains Cord**, with angled plug, length 100 cm



- 20 0102 70 **Potential Equipotential Cable**, length 500 cm
- 20 0103 70 **Potential Equipotential Cable**, length 200 cm
- 20 0105 70 **Potential Equipotential Cable**, length 150 cm
- 20 0106 70 **Potential Equipotential Cable**, length 100 cm



29005 PA-DR **Potential Equipotential Cable Set**, for equipment carts, for 5 units, including Potential Equipotential Cable 5x 20 0106 70, 1x 20 0105 70, 1x 20 0102 70, for use with COR equipment carts and Equipment Cart 29005 DRB/DRS



UG 605 **Keyboard Tray**, narrow, for mounting under narrow Shelf UG 603, load capacity max. 10 kg, Dimensions: 430 x 480 mm (w x d), for use with Equipment Carts UG xxx

UG 606

**Keyboard Tray**, wide, for mounting under wide Shelf UG 604, load capacity max. 10 kg, Dimensions: 630 x 480 mm (w x d), for use with Equipment Carts UG xxx

# 32" 4K Medical Display

**FM-E3203D FM-E3203DG**

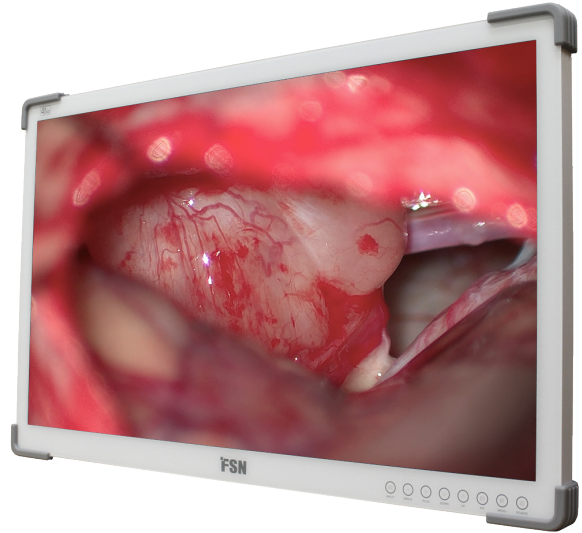


- *Vivid colors plus high brightness level.*
- *Protective corner guards add safety to active ORs.*
- *Fast detection of MIS camera system video.*

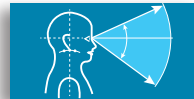


### See Every Detail

The 4K UHD technology found in this monitor produces ultra-sharp picture clarity and high levels of detail. This greatly enhances images from endoscopic camera systems. The input source options on this monitor include DVI, HDMI, and DisplayPort. The FM-E3203DG model adds 3G and 12G SDI to the impressive selection of signal input choices.

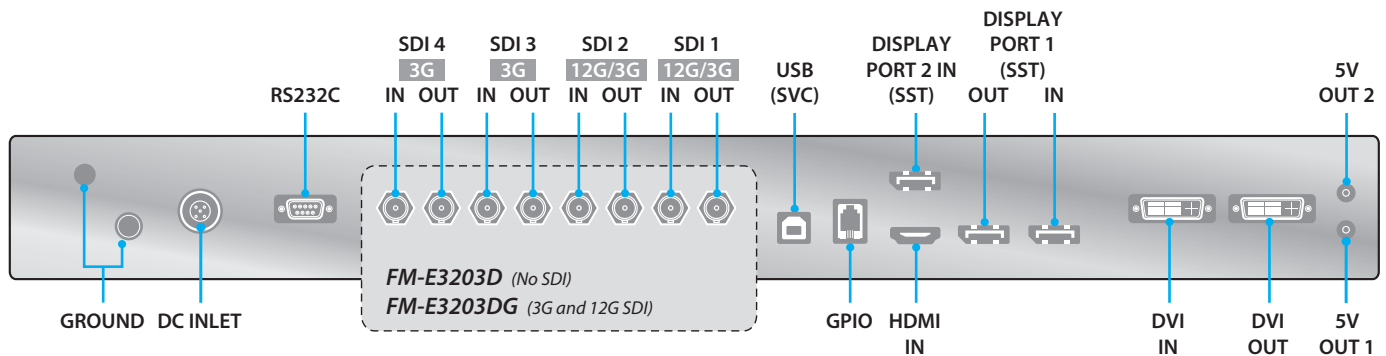


Edge-to-edge protective front glass gives this monitor a slim, sleek appearance, and allows for easy cleaning of the front surface. Protective guards on the bezel corners help reduce bumping injuries, especially in today's active operating room environments. A back cable cover is provided with each monitor to manage cords and wires.



### Ergonomic Design

If an installation requires additional components to be used with the monitor, such as fiber optic or wireless receivers, there are built-in connections for DC 5 volt power. FSN monitors are designed with maximum viewing angles, allowing several clinicians to view the display in the same room without loss of image quality or distortion.



[www.fsnmed.com](http://www.fsnmed.com)

Foreseeson Custom Displays, Inc.  
2210 E. Winston Road  
Anaheim, CA 92806 USA  
Tel: 714-300-0540  
Fax: 714-300-0546

Latin America  
Aventura, FL 33180 USA  
Tel: 714-507-3855

Foreseeson Korea  
B-408, U-Space2  
670 Daewangpangyo-ro,  
Bundang-gu, Seongnam-si  
Gyeonggi-do, Republic of Korea  
Tel: +82-31-8017-0780

Foreseeson GmbH  
Industriestrasse 38a  
63150 Heusenstamm, Germany  
Tel: +49 6104 64398 0  
Fax: +49 6104 64398 11

Foreseeson UK Ltd.  
1 Wolsey Road  
East Molesay  
Surrey  
KT8 9EL  
United Kingdom  
Tel: +44 (0) 208 546 1047

Foreseeson (Shanghai)  
Medical Equipment Co., Ltd.  
Room 8E, No. 89 Building  
1122 North Qinzhou Road  
Xuhui, Shanghai 200233, China  
Tel: 86-21-6113-4188

# 32" 4K Medical Display

**FM-E3203D FM-E3203DG**

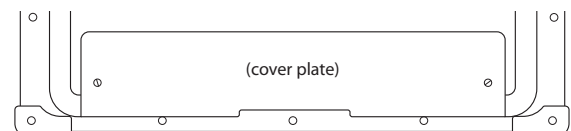
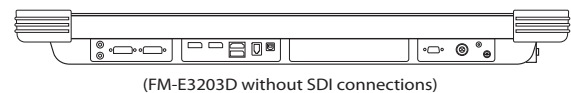
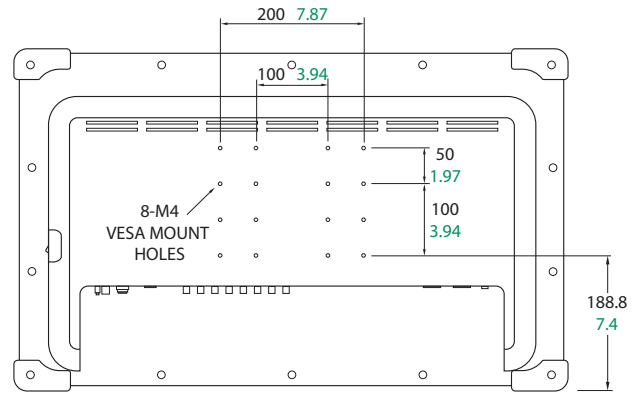
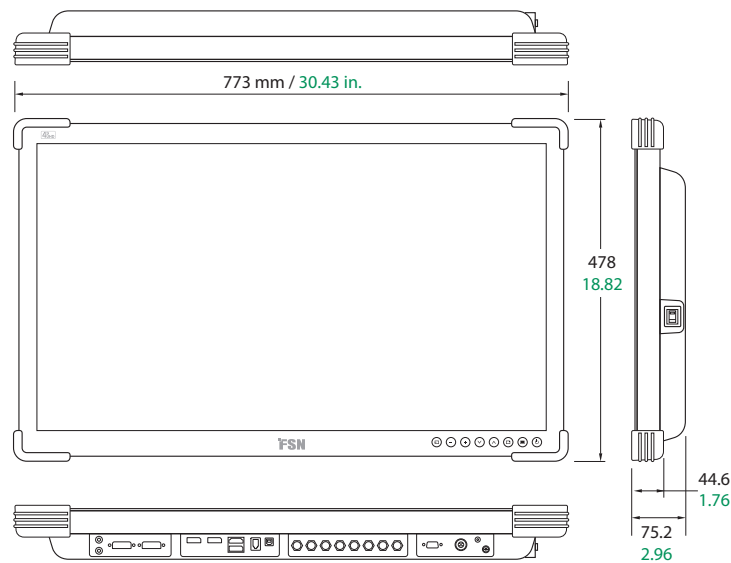


## Specifications

### General Features

Item	Description
Panel	32 inch TFT LCD (LED)
Resolution	3840 x 2160 pixels
Aspect Ratio	16 : 9
Active Area	708.48 (H)mm x 398.82 (V)mm
Pixel Pitch (mm)	0.1845 x 0.1845
Response Time (typical)	8 ms (rise time)
Number of Colors	1.07 Billion
Brightness (typical)	700 cd/m <sup>2</sup>
Calculated Gamut	BT.709 and BT.2020 compatible
Contrast Ratio (typical)	1350 : 1
Surface Treatment	Anti-glare
Viewing Angle (CR>10)	R/L 178°, U/D 178°
Input Signal	1 x HDMI 2.0
	2 x DP 1.2 (SST)
	1 x DVI (single link)
	4 x SDI (3G), 2 x SDI (12G) available on FM-E3203DG








Item	Description
Output Signal	1 x DP 1.2 (SST)
	1 x DVI (single link)
Power Supply	4 x SDI (3G), 2 x SDI (12G) available on FM-E3203DG
	AC/DC Adaptor (AC 100~240V, DC 24V/6.6A)
Power Consumption	FM-E3203D 105W max
	FM-E3203DG 125W max
Accessories Included	User manual, AC-DC adaptor, AC power cord, DP cable, HDMI cable, DVI-D cable, BNC cable (SDI models), Screw BH M4 x 14
Latency	9 ms
Unit Dimension	773(W) x 478(H) x 75.2(D) mm
	30.43(W) x 18.82(H) x 2.96(D) inch
Package Dimension	914.4(W) x 749.3(H) x 234.95(D) mm
	36(W) x 29.5(H) x 9.25(D) inch
IP Rating	IP33 - overall, IP44 - front side only
IK Rating	IK07 with 5H AR glass
Weight	FM-E3203D 11.56 kg, 25.49 lbs. (monitor with cover)
	16.83 kg, 37.10 lbs. (shipping package)
Weight	FM-E3203DG 11.80 kg, 26.01 lbs. (monitor with cover)
	17.5 kg, 38.58 lbs. (shipping package)
Certifications	ANSI/AAMI ES60601-1 (UL60601-1), CAN/CSA C22.2 No. 60601-1, FCC Class B, EN60601-1, EN60601-1-2, CE, MDR(EU) 2017/745 Class I Medical Device



FSN Medical Technologies products meet EU RoHS Directive 2011/65/EU+2015/863/EU and Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) obligations. FSN manages the information flow as required by regulations.

## 6.1

## Available Accessories

	UG410	<b>Earth Leakage Monitor,</b> 200-240 V	for mounting to equipment carts, control panel dimensions: 44 x 80 x 29 mm (w x h x d), for use with Isolation Transformer UG310
	UG400	<b>Earth Leakage Monitor,</b> 100-120 V	for mounting to equipment carts, control panel dimensions: 44 x 80 x 29 mm (w x h x d), for use with Isolation Transformer UG300
	UG501	<b>Monitor Holder Adaptor</b>	for central mounting of monitor holding arms on the rear attachment points of the COR equipment carts UGxxx for use with UG500, UG510 and UG520
	UG540	<b>Monitor Swivel Arm</b>	height and side adjustable, can be positioned on the left or on the right side, swivel range 180°, reach 780 mm, from center 1170 mm, loading capacity max. 15 kg, with monitor mount VESA 75/100
	UG500	<b>Monitor Holder</b>	height adjustable, swiveling and tilting, swivel range approx. 360°, loading capacity max. 18 kg, with monitor mount VESA 75/100
	UG520	<b>Monitor Holding Arm,</b> long	height and side adjustable, tilting, swivel range approx. 320°, reach 760 mm, loading capacity max. 15 kg, with monitor mount VESA 75/100
	UG510	<b>Monitor Holding Arm</b>	height and side adjustable, tilting, can be mounted either on the left or on the right side, swivel range up to approx. 320°, reach 530 mm, loading capacity max. 15 kg, with monitor mount VESA 75/100



## IMAGE1 S™ Camera System



TC201EN\*

**IMAGE1 S CONNECT® II**, connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ SCB or KS HIVE and digital image processing module, power supply 100 – 240 VAC, 50/60 Hz, including:

**Mains Cord**, length 300 cm

**DVI-D Connecting Cable**, length 300 cm

**DisplayPort Cable**, length 300 cm

**SDI Cable**, length 300 cm

**SCB Connecting Cable**, length 100 cm

**USB Flash Drive**, 32 GB

**USB Silicone Keyboard**, with touchpad, US

\* **Available in the following languages:** DE, ES, FR, IT, PT, RU

Please specify the desired language when placing your order.

### Technical Specifications

Video outputs	2x Display Port 1.2, 1x 12G/3G-SDI, 1x DVI-D
Format of signal outputs	max. 3840 x 2160p, 50/60 Hz
Link video inputs	3x
USB interface	4 x USB, (2x front, 2x rear)
Unit communication	1 x 6-pin Mini-DIN

Power supply	200–240 VAC
Power frequency	50/60 Hz
Protection class / degree	1 / CF-Defib
Dimensions (w x h x d)	305 x 54 x 320 mm
Weight	3.1 kg

### For use with IMAGE1 S CONNECT® II Module TC201EN



TC304

**IMAGE1 S 4U-LINK**, link module, for use with IMAGE1 S™ 4U camera heads, power supply 100 – 240 VAC, 50/60 Hz, including:

**Mains Cord**, length 300 cm

**Link Cable**, length 20 cm, for use with IMAGE1 S CONNECT® TC200EN or IMAGE1 S CONNECT® II TC201EN

### Technical Specifications

Interfaces	1x link output
Power consumption	86 VA
Power frequency	50/60 Hz
Power supply	200–240 VAC
Dimensions (B x H x T)	305 x 54 x 320 mm

Weight	1,86 kg
Cleaning	wipe disinfection
Degree of ingress protection	IPX0
Protection class / degree	1 / CF-Defib

**IMAGE1 S™**

Camera Head 4U One-Chip 4K UHD and Camera Head 4U RUBINA Two-Chip 4K UHD



**IMAGE1 S™ 4U One-Chip 4K UHD camera head, for use with TC304, IMAGE1 S 4U-LINK, module for 4K endoscopy**



TH120

**IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**, S-technologies available, progressive scan, soakable, EtO sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 18 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK

**Technical Specifications**

Frame rate	50 / 60 Hz
Image sensor	One-chip
Resolution	3840 x 2160 pixels
Scanning mode	progressive scan
Lens	fixed focus
Focal length	f = 18 mm
Dimensions (w x h x l)	46 x 37 x 133 mm
Weight	210 g

Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	soakable, EtO sterilization, H <sub>2</sub> O <sub>2</sub> (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA*
Degree of protection	in conjunction with camera control unit IMAGE1S™: CF-Defib

\* SPECTRA A / SPECTRA B: **Not for sale in the U.S.A.**

**IMAGE1 S™ 4U RUBINA, OPAL1® NIR/ICG, Two-Chip 4K UHD Camera Head for use with TC201EN, IMAGE1 S CONNECT® II and TC304, IMAGE1 S 4U-LINK, module for 4K endoscopy**



TH121

**IMAGE1 S™ 4U RUBINA, OPAL1® NIR/ICG, Two-Chip 4K UHD Camera Head**, S-technologies available, for NIR/ICG fluorescence imaging in combination with Power LED RUBINA, OPAL1® NIR/ICG, progressive scan, soakable, EtO sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S 4U-LINK

**Technical Specifications**

Frame rate	50 / 60 Hz
Image sensor	Two-chip
Resolution	3840 x 2160 pixels
Scanning mode	progressive scan
Lens	fixed focus
Focal length	f = 19 mm
Dimensions (w x h x l)	150 x 55 x 41 mm
Weight	260 g

Cable length	300 cm
Cable routing	angled
Camera head buttons	freely programmable
Grip mechanism	standard eyepiece adaptor
Reprocessing	soakable, EtO sterilization, H <sub>2</sub> O <sub>2</sub> (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA*
Degree of protection	in conjunction with camera control unit IMAGE1S™: CF-Defib

\* SPECTRA A / SPECTRA B: **Not for sale in the U.S.A.**

# LED Cold Light Fountains

POWER LED 175 SCB, LED NOVA 150



	<b>20 1614 01-1</b> <b>Cold Light Fountain POWER LED 175 SCB</b>	<b>20 1612 01</b> <b>Cold Light Fountain LED NOVA 150</b>
	with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet	high-performance LED module, with one KARL STORZ light outlet
<b>including:</b>	<b>Mains Cord</b> <b>SCB Connecting Cable</b>	<b>Mains Cord</b>

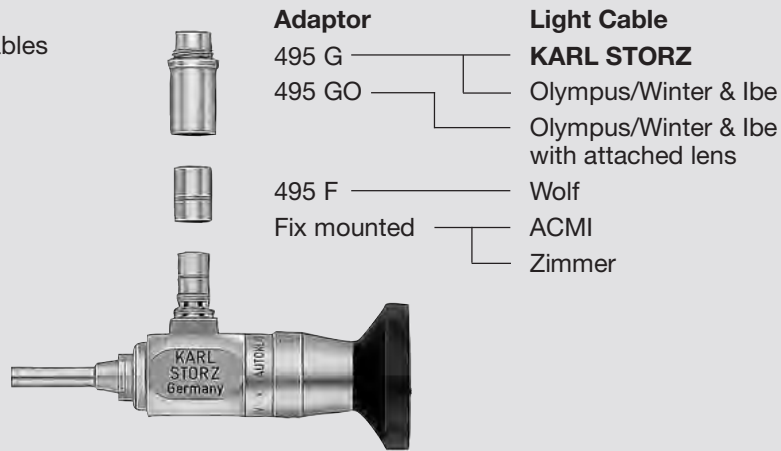
### Specifications:

Illumination technology	LED	
Color temperature	approx. 6400 K	
Average lamp service life	30,000 h	
Light intensity adjustment	automatic via SCB manual via SCB manual via membrane keyboard	manual
Unit communication	KARL STORZ Communication Bus (2x SCB)	–
Power consumption	110 VA	60 VA
Power supply	110 – 240 VAC	100 – 240 VAC
Power frequency	50/60 Hz	
Dimensions w x h x d	305 x 110 x 233 mm	305 x 84 x 238 mm
Weight	4 kg	2.3 kg
Cleaning	wipe disinfection	
Protection class	1	
Degree of safety	CF	

# Adaptors

for Light Sources and Light Cables

HOPKINS® Telescopes with universal connector for light cables



Manufacturer	I = Instrument CF = Cold Light Fountain LC = Light Cable	KARL STORZ				Special Applications
		Light Cable	Cold Light Fountain	Former Instrument	Current Instrument	
ACMI	I	495 W	-	-	-	ACMI connector to ACMI connector 495 Y
	CF	495 PA	-	-	-	
	LC	-	495 C	-	-	
Downs	CF	495 PA	-	-	-	Olympus Techno Fountain for KARL STORZ Cable 81495 OT, Olympus Light Cable for KARL STORZ Techno Fountain 81450/81495 OL
Dyonics	CF	495 Q	-	-	-	
Effner	CF	495 Q	-	-	-	
Fuji	CF	495 FU	-	-	-	
KLI	LC	-	495 C	-	-	
	CF	495 PA	-	-	-	
Machida	CF	495 SM	-	-	-	
Olympus	CF	495 SON	-	-	-	
	LC	-	495 D	-	-	
Pentax	CF	495 T	-	-	-	
	LC	-	495 D	-	-	
HSW	CF	495 Q	-	-	-	
	LC	-	495 E	495 N	495 N	
Stryker	I	495 ST	-	-	-	
	CF	495 PA	-	-	-	
Richard Wolf	I	495 X	-	-	-	
	CF	495 Q	-	-	-	
	LC	-	495 E	495 M	-	
Olympus/ Winter & Ibe	CF	495 S	-	-	-	<b>495 S:</b> The use of KARL STORZ fiberscopes with integrated fiber optic light cable and KARL STORZ light cables with non-graduated distal connection (diameter 7 mm) requires an additional adaptor <b>495 PWS</b> to adaptor <b>495 S</b>
	LC with attached lens	-	-	495 GO	495 GO	

LIGHT SOURCES

2-112

# AUTOCON® III 300

High Frequency Surgery Units



UH 300 **AUTOCON® III 300**, without CE certification, power supply 220 – 240 VAC, 50/60 Hz including:

**Mains Cord**

**HF connecting sockets unipolar:**

3-pin US type  
5 mm connector KARL STORZ/Erbe VIO

**HF connecting sockets bipolar:**

2-pin US type (28.58 mm)  
2x KARL STORZ/Erbe VIO

**Connecting socket:**

Neutral Electrode 2-pol

Can be integrated into OR1™ with KARL STORZ OR1™ SCB control WU 300. System requirements: SCB-R-UI Software Release 20090001-46 or higher.

**UH 300E** **Same**, with CE certification, power supply 220 – 240 VAC, 50/60 Hz

UH 300U **Same**, without CE certification, power supply 100 – 127 VAC, 50/60 Hz

UH 300UE **Same**, with CE certification, power supply 100 – 127 VAC, 50/60 Hz

**Specifications:**

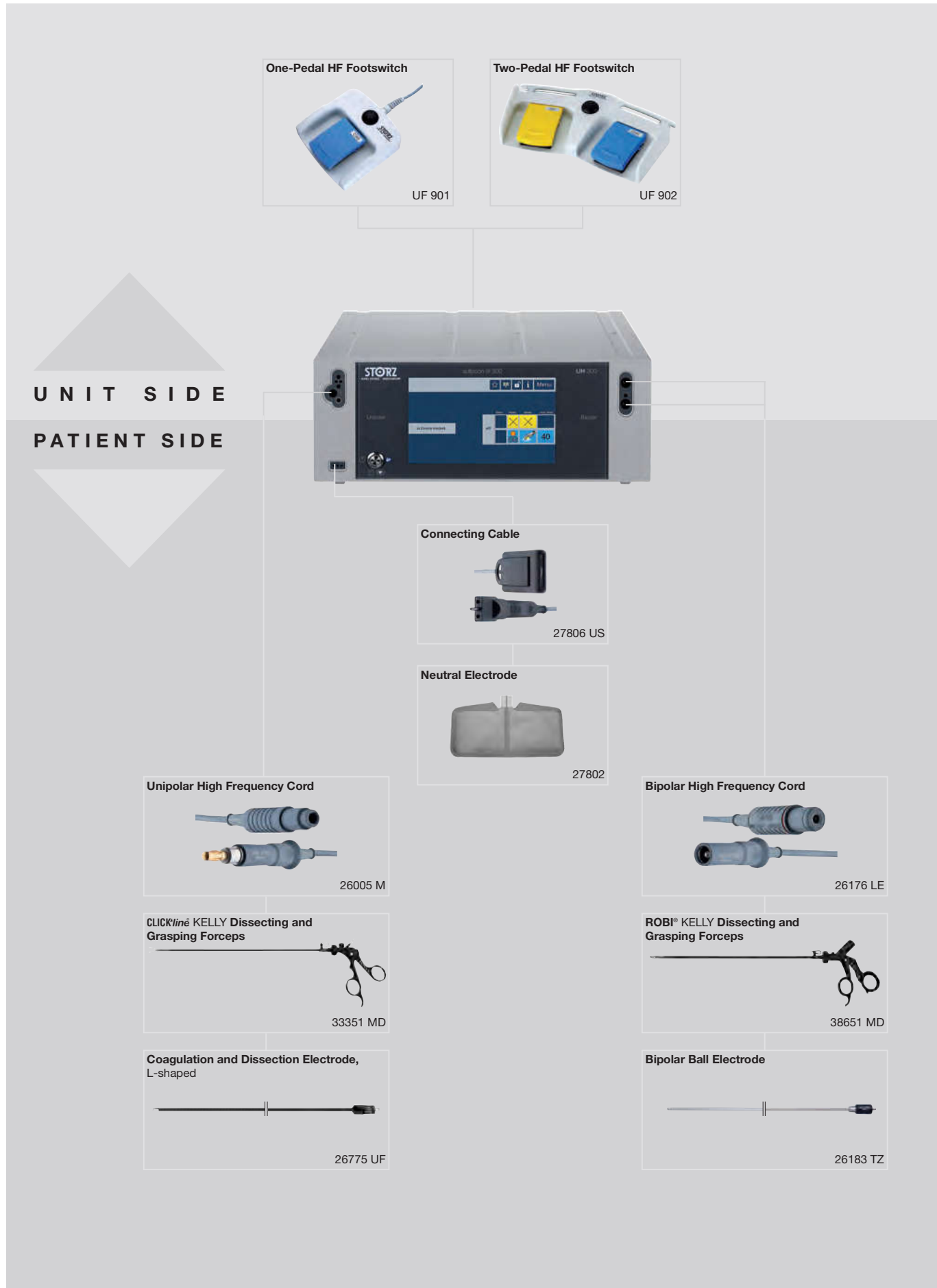
Max. power	unipolar: 400 Watt (at 100 Ohm) bipolar: 200 Watt (at 75 Ohm)	Output frequency	350 kHz/1 MHz
Power supply	220 – 240 VAC, 50/60 Hz (UH 300, UH 300E) 100 – 127 VAC, 50/60 Hz (UH 300U, UH 300UE)	Dimensions w x h x d	447 x 177 x 457 mm
Weight	1.8 kg	Certified to	IEC 60601-1
Sockets	Unipolar sockets: 1 Bipolar sockets: 1 (can be expanded to 2)		

**Optional Accessories for AUTOCON® III 300** see page U 42

**Components/Spare Parts** see chapter 18

# AUTOCON® III 300

High Frequency Surgery Units,  
System Components



10-171

HIGH FREQUENCY SURGERY UNITS





# Accessories

## Unipolar High Frequency Cords

### Unipolar High Frequency Cords



KARL STORZ High Frequency  
Instrument Surgical Units

	26002 M	<b>Unipolar High Frequency Cord</b> , with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
	26004 M	<b>Unipolar High Frequency Cord</b> , with 4 mm plug for models Berchtold and Martin, length 300 cm
	26005 M	<b>Unipolar High Frequency Cord</b> , with 5 mm plug for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC, length 300 cm
	26006 M	<b>Unipolar High Frequency Cord</b> , with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

**Please note:** All high frequency cords of this page are delivered with a length of 300 cm. If a length of 500 cm is requested please add letter **L** to the part number, e. g. 26002 **ML**, 26176 **LVL**.






# Skull Base and Endoscopic Pituitary Surgery

Accessories, High Frequency Cords,  
for use with TAKE-APART® bipolar forceps

## Bipolar High Frequency Cords



KARL STORZ High Frequency  
Instrument Surgical Units

	<p>26176 LE</p>	<p><b>Bipolar High Frequency Cord</b>, for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm</p>
	<p>26176 LM</p>	<p><b>Bipolar High Frequency Cord</b>, for Martin and Berchtold coagulators, length 300 cm</p>
	<p>26176 L</p>	<p><b>Bipolar High Frequency Cord</b>, with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm</p>
	<p>26176 LA</p>	<p><b>Bipolar High Frequency Cord</b>, with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm</p>
	<p>26176 LV</p>	<p><b>Bipolar High Frequency Cord</b>, for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm</p>





Puterea (W)

**2.4 kW**

Tensiune (V)

**150 - 250 V**

Opțiuni

**Cleme**

Model

**HTND-3kVA**

Tensiunea la ieșire (V)

**230 V**

Număr de faze

**Monofazat**

Brand

**Himel**

Tip

**Releu**

Metoda de prindere

**Pe podea**

# Fiber Optic Light Cables

for Cold Light Fountains



## Fiber Optic Light Cable with Straight Connector

- 495 NE **Fiber Optic Light Cable**, diameter 4.8 mm, length 300 cm
- 495 NCS **Fiber Optic Light Cable**, extremely heat-resistant, diameter 4.8 mm, length 250 cm
- NEW** 495 NCSC **Fiber Optic Light Cable**, extremely heat-resistant, with safety locking device, diameter 4.8 mm, length 250 cm
- 495 NB **Fiber Optic Light Cable**, diameter 4.8 mm, length 180 cm
- 495 ND **Fiber Optic Light Cable**, diameter 3.5 mm, length 300 cm
- 495 NA **Fiber Optic Light Cable**, diameter 3.5 mm, length 230 cm
- NEW** 495 NAC **Fiber Optic Light Cable**, with safety locking device, diameter 3.5 mm, length 230 cm
- 495 NL **Fiber Optic Light Cable**, diameter 3.5 mm, length 180 cm
- 495 NTA **Fiber Optic Light Cable**, diameter 2.5 mm, length 230 cm
- 495 NT **Fiber Optic Light Cable**, diameter 2.5 mm, length 180 cm
- NEW** 495 TIP **Fiber Optic Light Cable**, highly heat resistant, diameter 4.8 mm, length 300 cm, optimized for 3D TIPCAM®1 and TIPCAM®



## Fiber Optic Light Cable with 90° Deflection to the Light Source

- 495 NWL **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 300 cm
- 495 NWM **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 230 cm
- 495 NW **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 3.5 mm, length 180 cm
- 495 NTX **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 2.5 mm, length 230 cm
- 495 NTW **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain on the fountain side, diameter 2.5 mm, length 180 cm



495 NVC



495 NV/NVL/NVB

## Fiber Optic Light Cable with 90° Deflection to the Instrument

- NEW** 495 NVC **Fiber Optic Light Cable**, with 90° deflection to the instrument, very narrow radius of curvature, diameter 4.8 mm, length 300 cm
- 495 NVB **Fiber Optic Light Cable**, with 90° deflection to the instrument, diameter 4.8 mm, length 300 cm
- 495 NVL **Fiber Optic Light Cable**, with 90° deflection to the instrument, diameter 3.5 mm, length 300 cm
- 495 NV **Fiber Optic Light Cable**, with 90° deflection to the instrument, diameter 3.5 mm, length 230 cm



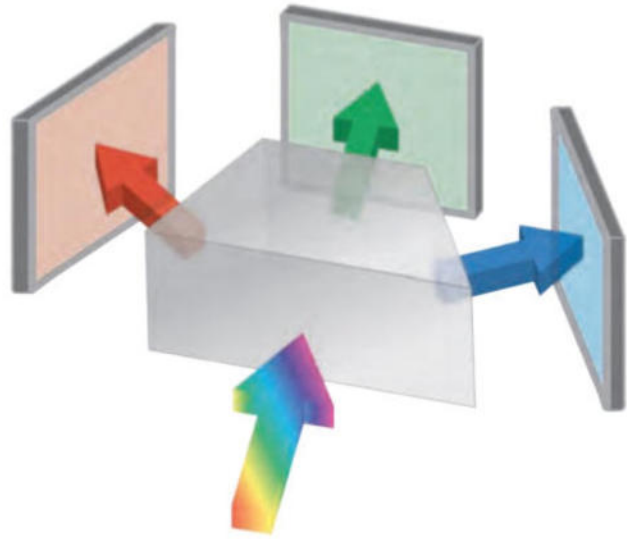
## Light Adaptor, angled 90°



- 495 EW **Light Adaptor**, angled 90°, diameter 4.8 mm, free rotatable, to connect with standard telescopes

Adaptor for connecting KARL STORZ fiber optic light cables with endoscopes and light sources from other manufacturers, see page TP 132

**Special Features:**

- Best image quality and display due to sensor chip technology
- Enhanced signal quality through Digital Signal Processing (contrast and filter enhancement for rigid, semirigid and flexible endoscopes)
- Optimal image size display, regardless of the telescope used, thanks to patented Parfocal Optical Zoom Lens
- Simplified operation reduces camera movement to, e.g., prevent damage to or soiling of the lens
- Consistent illumination due to the auto-exposure system ensures seamless transitions between images, regardless of imaging area or available light
- Functionality at the touch of a button with easy -to-program operating elements via intuitive control of all functions in the sterile area
- Parameters of the OR equipment used, light sources, etc. can be displayed and controlled (KARL STORZ Communication Bus) on the monitor
- Digital video output (DV) for digital recording
- Digital zoom 1 – 2x can be adjusted to 4 levels
- “Freeze Frame” function can be activated via camera head buttons or an external footswitch
- Fluorescence imaging mode available



	<p><b>Zoom:</b> Hier können Sie die Darstellung digital vergrößern.</p>	<p><b>Zoom:</b> This enables digital magnification of the display.</p>	<p><b>Zoom:</b> Permite aumentar digitalmente el tamaño de la imagen.</p>
	<p><b>Adaptive Zoom (Adaptiver Zoom):</b> Diese Funktion kann ausgewählt werden, wenn</p> <ul style="list-style-type: none"> <li>- eine IMAGE1 S CONNECT® II TC201 und ein 4U-LINK in Kombination mit den 4U Kameraköpfen TH120 oder TH121 genutzt werden. Bei Anwendung eines Weißabgleichs erkennt das System die Größe des endoskopischen Bildes unter Anwendung eines individuell optimalen Zoomfaktors. Das endoskopische Bild wird bei kleinen Optiken gezoomt, um das Display vertikal zu füllen. Bei Optiken bei denen das endoskopische Bild die vertikalen Grenzen bereits überschreitet, wird auf Vollbild gezoomt, wobei möglichst wenige Peripherinformationen verloren gehen.</li> </ul> <p><b>ⓘ HINWEIS:</b> Führen Sie vor jedem Gebrauch einen Weißabgleich durch.</p> <p><b>ⓘ HINWEIS:</b> Wenn das Endoskop während der Operation ausgetauscht werden muss, führen Sie einen Weißabgleich durch, um die endoskopische Bildgröße richtig zu erkennen.</p> <ul style="list-style-type: none"> <li>- eine IMAGE1 S CONNECT® I TC200 oder IMAGE1 S CONNECT® II TC201 und ein D3-LINK in Kombination mit einer 4 mm TIPCAM®1 S 3D genutzt werden. Wenn die Funktion aktiviert ist, wird das endoskopische Bild beim Einstecken der TIPCAM auf ein Vollbild aufgezoomt.</li> <li>- eine IMAGE1 S CONNECT® I TC200 oder IMAGE1 S CONNECT® II TC201 und ein X-LINK in Kombination mit den C-MOS-basierten X-Line Videoendoskopen genutzt werden. Wenn die Funktion aktiviert ist, wird das endoskopische Bild beim Einstecken der X-Line Videoendoskope optimal aufgezoomt.</li> </ul>	<p><b>Adaptive Zoom:</b> that function can be selected if</p> <ul style="list-style-type: none"> <li>- an IMAGE1 S CONNECT® II TC201 and a 4U-LINK are used in combination with the 4U camera heads TH120 or TH121. When applying a white balance, the system will detect the size of the endoscopic image, applying an individually and optimal zoom factor. Small scopes will be zoomed to fit into the vertical borders of the display. Scopes exceeding the vertical borders are zoomed to full screen with minimal loss of peripheral information.</li> </ul> <p><b>ⓘ NOTE:</b> Perform a white balance before every use.</p> <p><b>ⓘ NOTE:</b> If the endoscope must be exchanged during surgery, perform white balance for proper detection of the endoscopic image size.</p> <ul style="list-style-type: none"> <li>- an IMAGE1 S CONNECT® I TC200 or IMAGE1 S CONNECT® II TC201 and a D3-LINK can be used in combination with a 4 mm TIPCAM®1 S 3D. If the function is activated, the endoscopic image is zoomed to a full screen when the TIPCAM is inserted.</li> <li>- an IMAGE1 S CONNECT® I TC200 or IMAGE1 S CONNECT® II TC201 and an X-LINK can be used in combination with the C-MOS-based X-Line video endoscopes. If the function is activated, the endoscopic image is optimally zoomed up when the X-Line video endoscopes are inserted.</li> </ul>	<p><b>Zoom adaptable ("Adaptive Zoom"):</b> puede seleccionarse esta función si:</p> <ul style="list-style-type: none"> <li>- se usan un IMAGE1 S CONNECT® II TC201 y un 4U-LINK en combinación con los cabezales de cámara 4U TH120 o TH121. Al ejecutar un balance de blancos, el sistema detectará el tamaño de la imagen endoscópica, aplicando un factor de zoom individual y óptimo. En los endoscopios pequeños se aplicará un factor de zoom para ajustar la imagen a los bordes verticales de la pantalla. En el caso de los endoscopios que sobresalgan de los bordes verticales, se aplica un factor de zoom para que la imagen se ajuste en modo pantalla completa con una pérdida mínima de información periférica.</li> </ul> <p><b>ⓘ NOTA:</b> Antes de cada aplicación, lleve a cabo un balance de blancos.</p> <p><b>ⓘ NOTA:</b> Si fuera necesario sustituir el endoscopio durante la intervención quirúrgica, realice un balance de blancos para la detección adecuada del tamaño de la imagen endoscópica.</p> <ul style="list-style-type: none"> <li>- se usan un IMAGE1 S CONNECT® I TC200 o IMAGE1 S CONNECT® II TC201 y un D3-LINK en combinación con una TIPCAM®1 S 3D de 4 mm. Si la función está activada, se ajustará la imagen endoscópica a pantalla completa al insertar la TIPCAM.</li> <li>- se usan un IMAGE1 S CONNECT® I TC200 o IMAGE1 S CONNECT® II TC201 y un X-LINK en combinación con los videoendoscopios X-Line basados en C-MOS. Si la función está activada, se ajustará de forma óptima la imagen endoscópica al insertar los videoendoscopios X-Line.</li> </ul>



Item no: UH300E

## AUTOCON III 300 CE, 220-240V

Quantity:

- 1 +

[On the offer list](#)

### Scope of delivery

400A power cord, length 300 cm (1)

## Product details

### AUTOCON® III 300

With AUTOCON® III 300, KARL STORZ has created another high-frequency generator for the HF surgery product family.

- Touch screen control
- Interdisciplinary use
- Neutral electrode monitoring
- 400 Watt unipolar and 200 Watt bipolar output
- Automatic smoke evacuation with s-pilot® from KARL STORZ

Technical details	Documents & Films	Product group / field of application
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Power bipolar max.	200 Watt
Power unipolar max.	400 Watt
Connection socket for bipolar instruments	1 x 2-pin US type, 2 x KARL STORZ
Connection socket for unipolar instruments	1x 3-pin US-type connector, 1x 5 mm connector KARL STORZ, 1x 4 mm connector (foot-switched)
Connection socket for neutral electrode	1x 2 pin
Power supply	220 – 240 VAC
Output frequency	0.35 / 1 MHz
Line frequency	50/60 Hz

Rated resistance bipolar	75 Ohm
Rated resistance unipolar	100 Ohm
Control via touch screen	Yes
Bipolar sockets expandable to	2
Connection socket for footswitch	2
KARL STORZ / Erbe VIO – connection socket bipolar	2
BiVascularSafe mode	No
Can be integrated into OR1™	With SCB control WU300
System requirements OR1™ integration	SCB R-UI software, Release 20090001-46 or higher
Certification	With CE certification
Brand	AUTOCON®
Width	447 mm
Depth	457 mm
Height	177 mm
Weight	12.5 kg

[Home page](#) > Online Catalog - Human Medicine



Item no: 495NCSC

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## Fiber Optic Light Cable, 250 cm, Ø4.8 mm

Quantity:

- 1 +

[On the offer list](#) 🛒

Technical details	Documents & Films	Product group / field of application
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Length	250 cm
Diameter	4.8 mm
Cable connection light source	Straight
Cable connection telescope	Straight
Safety lock	Yes
Fluorescence imaging (NIR/ICG) (CE)	Yes
Fluorescence imaging (NIR/ICG) (FDA)	No
Fluorescence imaging (Blue Light Imaging, BLI)	No
Heat resistance	High
Enhanced light transmission	Yes
Light cable type	Fiber optic
Autoclavable	Yes (at 134°)
Number of instrument ports	1