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 Unit communication	4 x USB, (2x front, 2x rear) 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^{m} 4U camera heads, power supply 100 – 240 VAC, 50/60 Hz, including:

Mains Cord, length 300 cm

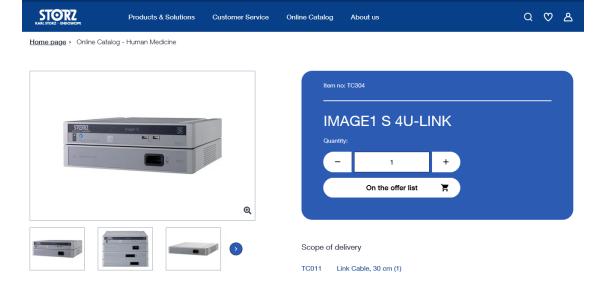
Link Cable, length 20 cm, for use with IMAGE1 S CONNECT® TC200EN or IMAGE1 S CONNECT® II TC201EN

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

TC304



Product details

Module for Rigid Endoscopy, 4K Technology

- Link module for 4K and 4K/3D
- Compatible with IMAGE1 STM 4U as well as the IMAGE1 STM 4U Rubina® camera head and TIPCAM®1 Rubina®
- 4K resolution and modern image processing technology
- Fluorescence imaging NIR/ICG in combination with the Rubina® product family

Technical details	Documen	t	ts & Films
Number of link outputs	1		
Power consumption	86 VA		
Line frequency	50/60 Hz		
Power supply	100 - 240 VAC		
Width	305 mm		
Height	54 mm		
Depth	320 mm		
Weight	1.86 kg		
Wipe disinfection	Yes		
IP protection class	IPX0		
Electrical protection class	Protection class 1		
Degree of safety	CF-Defib		
Brand	IMAGE1 S™ 4U-LINK		

Show less ^

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_2O_2 (hydrogen peroxide), focal lenght 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 ₂ O ₂ (hydrogen peroxide)
S-Technologies	CLARA, CHROMA, SPECTRA*
Degree of protection	in conjunction with camera control unit IMAGE1S™: CF-Defib

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_2O_2 (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 ₂ O ₂ (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.

^{*} SPECTRA A / SPECTRA B: Not for sale in the U.S.A.

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Q









Product details

The New 4K-NIR/ICG Camera Head

- Native 4K image resolution
- OPAL1® NIR/ICG visualization modes: Overlay, Monochromatic and Intensity Map
- S-Technologies available
- Enhanced NIR/ICG telescopes in comparison with previous models and new variants
- Compatible with IMAGE1 S™ 4U-LINK

Technical details

Documents & Films

Product group / field of application

Image sensor resolution	4K
Resolution	3840 x 2160 px
Connection	4U-Line
Autoclavable	No
Fluorescence imaging (NIR/ICG)	Yes, in conjunction with Power LED Rubina®
Fluorescence imaging (Blue Light Imaging, BLI)	No
S-Technologies	CLARA, CHROMA, SPECTRA A + B
Frame rate	50 / 60 Hz
Image sensor type	CMOS
Number of image sensors	2
Aspect ratio	16:9
Lens	Focus adjustable via focus ring
Zoom function	3x digital zoom
Focal length	19 mm
Width	41 mm
Height	55 mm
Length	150 mm
Weight	260 g
Cable length	300 cm
Cable detachable	No
Cable routing	Straight
Adaptive zoom	Yes, in combination with TC304 and TC201
Camera head buttons	3 Buttons, 2 freely programmable
Grip mechanism	Standard eyepiece adaptor
Soakable	Yes
H2O2 (hydrogen peroxide)	Yes
Wipe disinfection	Yes
Sterile concept	Single-use covers
Brand	IMAGE1 S Rubina®
Scanning method	Progressive scan

Zoom levels

1x, 1.25x,1.5x, 1.75x, 2x, 2.5x, 3x

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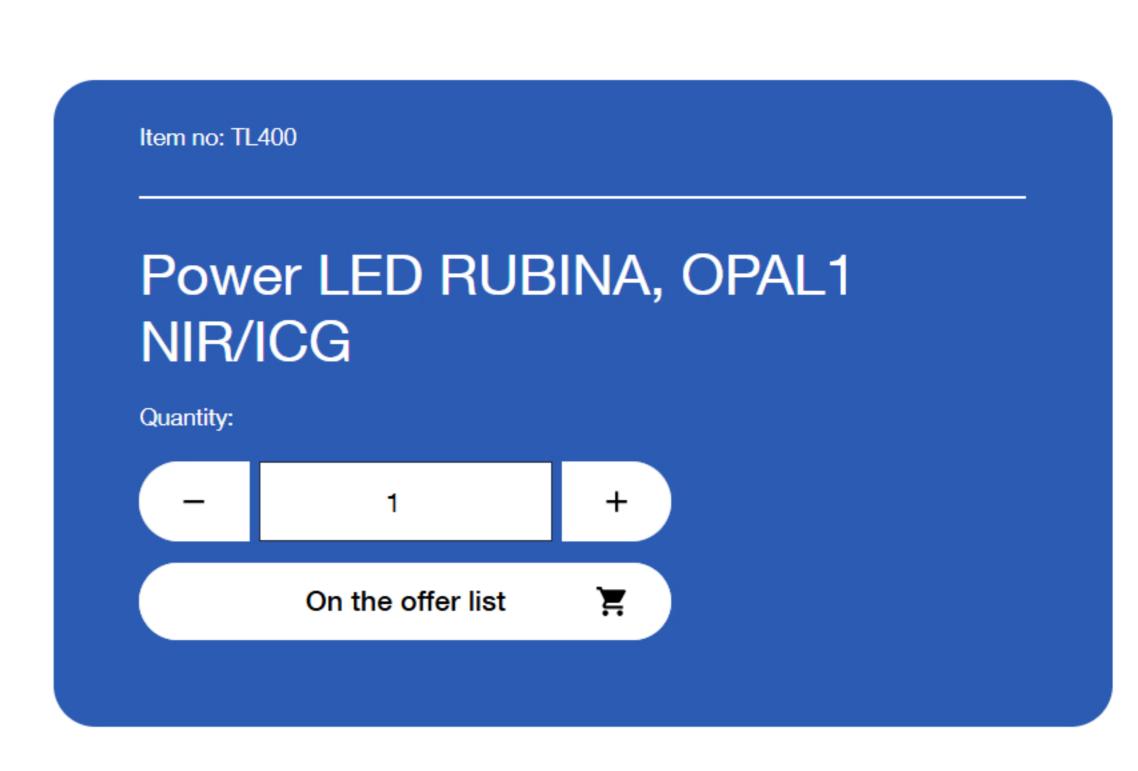


Product details

POWER LED Rubina® - The LED Light Source for White Light and NIR/ICG Applications

Power, efficiency, durability and flexibility are the hallmarks of the POWER LED Rubina® cold light source based on LED technology. The light source can be used for white light as well as fluorescence applications for displaying NIR/ICG or autofluorescence in the near infrared range.

- Laser-free LED light source for white light and NIR/ICG excitation
- OPAL1® NIR/ICG technology with new functionalities
- Min. 30,000 hours of lamp service life
- · Straightforward user interface thanks to intuitive touch screen
- Constant light intensity throughout the entire service life
- Very low volume



Scope of delivery

400A	power cord, length 300 cm (1)
96240726	OPAL1 NIR/ICG Demo Card (1)
WO10275	OR1 Patch Cable CAT6a 2.00m UL, blue (1)
TL006	Synch Connecting Cable, 3.5mm, 100cm (1)

Documents & Films Product group / field of application Technical details

Fluorescence imaging (NIR/ICG)	Yes
Fluorescence imaging (Blue Light Imaging, BLI)	No
Control via touch screen	Yes
Illumination technology	LED
Average lamp service life	30000 h
Integrated pump for air insufflation	No
Color temperature approx.	5700 K
Unit communication KS HIVE®	Yes
Unit communication SCB	No
Light intensity adjustment	Automatic via HIVE and manual
Weight	7.4 kg
Width	305 mm
Height	120 mm
Depth	370 mm
Power supply	100 - 125 / 220 - 240 VAC
IP protection class	IPX0
Electrical protection class	Protection class 1
KARL STORZ light outlet	Yes
Power consumption	220 VA
Line frequency	50/60 Hz
Degree of safety	CF
Degree of safety with KARL STORZ light cables	CF-Defib
Wipe disinfection	Yes
Electrical protection class	1

Product information



TC201EN*

IMAGE1 S CONNECT® II, connect module, for use with up to 3 link modules, 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



TC304

IMAGE1 S™ 4U-LINK, link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201



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, low-temperature sterilization, focal length f=19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK



26606ACA / 26606BCA

TIPCAM®1 Rubina®, Opal1® NIR/ICG, 4K/3D, high-resolution videoendoscope with two distally integrated video chips, for NIR/ICG fluorescence imaging in combination with POWER LED Rubina®, direction of view 0° (26606ACA) and 30° (26606BCA), diameter 10 mm, length 32 cm, autoclavable, S-technologies available, freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK



TL400

Cold Light Fountain POWER LED Rubina®, for NIR/ICG fluorescence imaging and standard

endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE®, power supply 100-125/220-240 VAC, 50/60 Hz

^{*} Also available in the following languages: DE, ES, FR, IT, PT, RU

55" 4K Medical Display

FM-A5504DS FM-A5504DG









- Excellent color and detail reproduction on a large screen.
- Wide selection of signal input choices.
- Built in multi-window layouts.

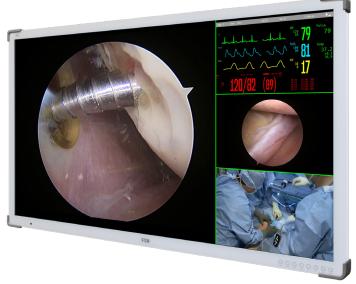


See Every Detail

This monitor delivers ultra-sharp picture clarity with maximum viewing angles, allowing

several clinicians to view high levels of detail without loss of image quality or distortion. Its 3,840 x 2,160 resolution greatly enhances images from endoscopic camera systems. Input source options include DVI, HDMI, SDI, and DisplayPort. The FM-A5504DG model adds 12G SDI to the impressive selection of signal choices.



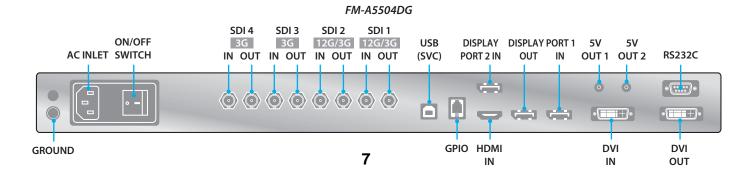


Multiple Windows

There is plenty of room on the FM-A5504D monitor series for multi-window requirements. Choose from PIP, PBP, Triple, or Quad layouts that are preset and ready-to-go in the on-screen display menus.

Edge-to-edge protective front glass gives this monitor a slim, sleek appearance, and allows for easy cleaning of the front surface. Rounded 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.

FM-A5504DS ON/OFF SDI 3 DVI 4 SDI 1 DVI 2 USB DISPLAY DISPLAY PORT 1 5V AC INLET SWITCH IN IN IN IN OUT 2 RS232C (SVC) PORT 2 IN OUT • •) • • **GROUND** SDI 4 DVI 3 SDI 2 DVI 1 GPIO HDMI 5V OUT 1 IN IN IN



FM-A5504DS FM-A5504DG



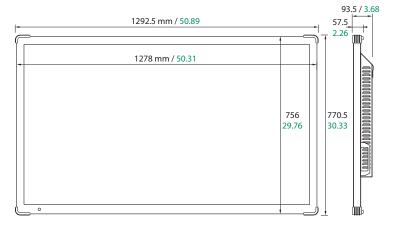
Specifications

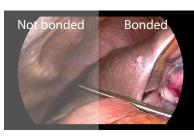
General Features

Item		Description		
Panel		55 inch TFT LCD (LED)		
Resolution	1	3840 x 2160 pixels		
Aspect Rat	tio	16:9		
Active Are	a	1209.60 (H)mm x 680.40 (V)mm		
Pixel Pitch	(mm)	0.315 x 0.315		
Response	Time (typical)	8 ms (gray to gray)		
Number of	f Colors	1.07 Billion		
Brightness	(typical)	500 cd/m ²		
Gamut		BT.709 and BT.2020 compatible		
Contrast R	atio (typical)	1100:1		
Surface Tre	eatment	Anti-glare		
Viewing A	ngle (CR>10)	R/L 178°, U/D 178°		
Input	FM-A5504DS	1 x HDMI 2.0 2 x DP 1.2 (SST) 4 (Quad) x DVI (single link) 4 (Quad) x SDI (3G)		
Signal	FM-A5504DG	1 x HDMI 2.0 2 x DP 1.2 (SST) 1 x DVI (single link) 4 (Quad) x SDI (3G), 2 x SDI (12G)		

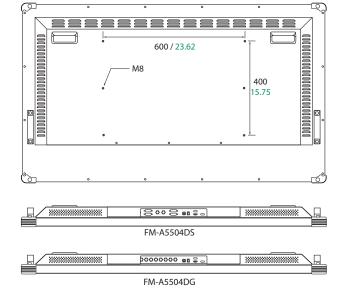
FSN Medical Technologies products meet EU RoHS Directive 2011/65/ EU+2015/863/EU and Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) obligations. FSN manages the information flow as required by regulations.

Item		Description			
	FM-A5504DS	1 x DP 1.2 (SST)			
Output Signal	FM-A5504DG	1 x DP 1.2 (SST) 1 x DVI (single link) 4 (Quad) x SDI (3G), 2 x SDI (12G)			
Power Su	upply	SMPS (AC 100 ~240V)			
Power Co	onsumption	140W max			
Accessor	ries Included	User manual, AC power cord, DP cable, HDMI cable, DVI-D cable, BNC cable, Remote control and batteries			
Unit Dim	nension	1292.5(W) x 770.5(H) x 93.5(D) mm 50.89(W) x 30.33(H) x 3.68(D) inch			
Package	Dimension	1450(W) x 930(H) x 305(D) mm 57.09(W) x 36.61(H) x 12(D) inch			
IP Rating	J	IP30 - overall, IP42 - front side			
IK Rating	J	IK07 with 5H AR glass			
Waight	FM-A5504DS	36.65 kg, 80.80 lbs. (monitor with cover) 49.73 kg, 109.64 lbs. (shipping package)			
Weight	FM-A5504DG	36.65 kg, 80.80 lbs. (monitor with cover) 50.23 kg, 110.74 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's optical bonding process (right) improves contrast ratio and brightness, and increases humidity resistance and breakage resistance.



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Specifications are subject to change with or without notice. Doc. # FSN2032 Rev. 11/21

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

ENDOFLATOR® 50 SCB



UI500S1

ENDOFLATOR® 50 SCB,

integrated SCB module, power supply 100-40 VAC, 50/60 Hz

including:

ENDOFLATOR® 50 SCB

SCB Connecting Cable, length 100 cm

Universal Wrench

Heated Insufflation Tubing Set, with gas filter,

sterile, for single use, package of 3*

HiCap® Trocar, size 11 mm

Subject to the customer's application-specific requirements additional accessories must be ordered separately.

HAMOU® ENDOMAT® with KARL STORZ SCB

Suction and Irrigation System



26331101-1 HAMOU® ENDOMAT® SCB,

power supply 100-240 VAC, 50/60 Hz

includina:

Mains Cord

5x HYST Tubing Set*, for single use

5x LAP Tubing Set*, for single use

SCB Connecting Cable, length 100 cm

VACUsafe Promotion Pack Suction*, 2 |

Subject to the customer's application-specific requirements additional accessories must be ordered separately.





Technische Beschreibung Technische Daten

Technical description Technical data

Descripción técnica Datos técnicos

8.5 Technische Daten

8.5 Technical data

8.5 Datos técnicos

ENDOFLATOR® 50	ENDOFLATOR® 50	ENDOFLATOR® 50	UI 500	
Netzversorgungsspannung	Line voltage	Tensión de alimentación de la red	100240 V~	
Netzfrequenz	Line frequency	Frecuencia de la red	50/60 Hz	
Netzsicherung	Line fuse	Fusible para la red	2 x T 2.5 AH 250V	
Mittlere Leistungsaufnahme bei Flow	Average power consumption	Consumo medio de potencia con un flujo	240 VAC: 230 W	
401/min (Eingangsdruck 60 bar)	with flow of 40 l/min (input pressure 60 bar)	de 401/min (presión de entrada 60 bares)	100 VAC: 130 W	
Maximale Stromaufnahme	Maximum current consumption	Consumo de corriente máximo	240 VAC: 1.8 A	
			100 VAC: 1.3 A	
Gaseingang (maximaler Druck)	Gas inlet (maximum pressure)	Entrada de gas (presión máxima)	100 bar	
Temperatur Patientenschlauchheizung	Temperature patient tube heating	Temperatura calefactor del tubo flexible para paciente	37 °C	
Betriebsart »PÄDIATRIE«	'PEDIATRICS' mode	Modo de servicio "PEDIATRÍA"		
Intrakavitärer Druck	Intracavitary pressure	Presión intracavitaria	115 mmHg (Auflösung/ resolution/resolución: 1 mmHg)	
Flow	Flow	Flujo	0.115 l/min (Auflösung/resolution/resolución 0.12 l/min: 0.1 l/min; 29.5 l/min: 0.5 l/min 1015 l/min: 1 l/min)	
Insufflationsdruck	Insufflation pressure	Presión de insuflación	max./máx. 30 mmHg	
Betriebsart »HIGH FLOW«	'HIGH FLOW' mode	Modo de servicio "HIGH FLOW"		
Intrakavitärer Druck	Intracavitary pressure	Presión intracavitaria	130 mmHg (Auflösung/ resolution/resolución: 1 mmHg)	
Flow	Flow	Flujo	150 l/min (Auflösung/ resolution/resolución: 1 l/min)	
Insufflationsdruck	Insufflation pressure	Presión de insuflación	max./máx. 50 mmHg	
Abmessungen (B x H x T)	Dimensions (W x H x D)	Dimensiones (an x al x pr)	305 mm x 164 mm x 315 mm	
Gewicht	Weight	Peso	7.8 kg	
Betriebsbedingungen:	Operating conditions:	Condiciones de servicio:		
Luftfeuchtigkeit (rel. Feuchte, nicht kondensierend)	Humidity (rel. humidity, non-condensing	Humedad del aire (humedad relativa, sin condensación)	15 %85 %	
Temperatur	Temperature	Temperatura	1035°C	
Max. Betriebshöhe	Max. operating altitude	Altura máxima de servicio	3000 m	
Lager-/Transportbedingungen:	Storage/transport conditions:	Cond. de almacenamiento/transporte:		
Luftfeuchtigkeit (rel. Feuchte, nicht kondensierend)	Humidity (rel. humidity, non-condensing	Humedad del aire (humedad relativa, sin condensación)	5%95%	
Temperatur	Temperature	Temperatura	-10°C60°C	
Atmosphärischer Druck	Atmospheric pressure	Presión atmosférica	+500hPa+1080hPa	







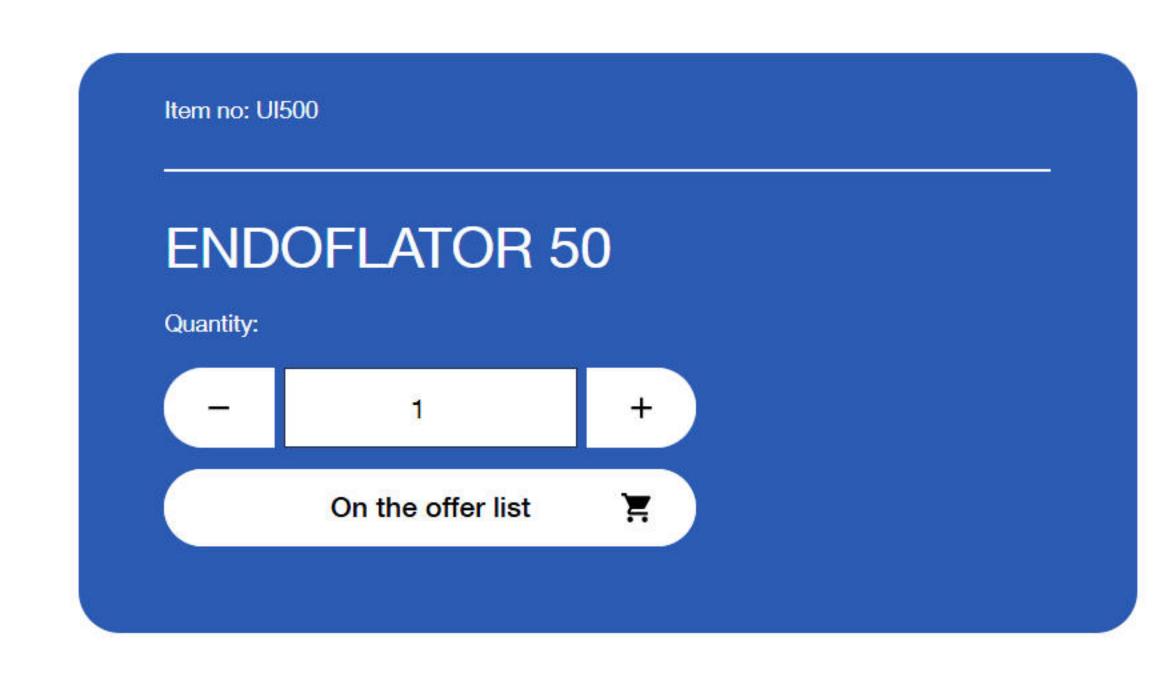
Product details

ENDOFLATOR® 50 – The high-performance insufflator with gas heating

- Flow rate of up to 50 l/min
- Integrated heating element
- range as well as safety limits for pressure and flow Can be combined with s-pilot® – the solution for your surgical smoke

· Pediatrics mode: small adjustment increments in the lower output

- management Communication with IMAGE1 S™ camera platform for control from the
- sterile area SECUVENT® safety system to relieve any intracavitary overpressure
- that may develop



Product group / field of application

SCB Connecting Cable, 100 cm (1) 20090170

Scope of delivery

Universal Wrench (1) 20400030

Technical details	Documents & Fi
Brand	ENDOFLATOR®
Intracavitary pressure (mmHg)	High Flow: 1-30, Pediatrics: 1-15
Flow I/min	High Flow: 1-50, Pediatrics: 0.1-15
Hose heating	Yes
Humidification	No
Integrated smoke evacuation	No
Desufflation	No
Wipe disinfection	Yes
Power supply	100 – 240 VAC
Line frequency	50/60 Hz
Power input	230 Watt
Current consumption at 240 VAC max.	1.8 D
Current consumption at 100 VAC max.	1.3 D
Gas input (max. pressure)	100 bar
System requirements for SCB	SCB control NEO system with integrated SCB control NEO, Software Release 20090001-45 or higher
Unit communication SCB	Yes
SCB connection	2
Insufflation connection	1
Connection for patient tube heating	1
Room temperature sensor	Yes (1)
Gas connection on the back of the device	American
Control via touch screen	Yes
Width	305 mm
Height	164 mm
Depth	315 mm
Weight	7.8 kg
Degree of safety	CF
IP protection class	IP21

Electrical protection

class



Equipment Cart LC





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

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

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



Insufflation tubing set, heatable, with gas filter, for single use

- \bullet Insufflation tubing set with integrated filament for gas heating to body temperature (approx. 37 $^{\circ}\text{C})$
- Length approx. 3 m
- Maximum gas flow of 50 l/min
- Compatible with the ENDOFLATOR® 50 insufflation unit
- Packing unit with 10 items

031210-10 **Insufflation Tubing Set with Gas Filter,** heatable, 3 m, hydrophobic on both sides, sterile, for single use, package of 10, for use with KARL STORZ ENDOFLATOR® 50



Smoke evacuation filter set, for single use

The smoke evacuation filter set is used for filtration and to regulate the removal of smoke vapor generated in laparoscopic procedures in order to reduce risks for the patient and OR personnel.

- Filtration of microorganisms, particles and toxic chemical substances
- Filter efficiency of > 99.9999% for the tested sample
- Length approx. 0.5 m
- LUER-Lock connector male
- Flow rate up to 8 l/min at 15 mmHg
- Roller clamp for setting the flow rate
- Passive smoke evacuation: No additional equipment required to use the smoke evacuation filter set.
- Packing unit with 10 items

031110-10 **Smoke Evacuation Filter Set,** with 50 cm tube with male LUER-Lock, sterile, for single use, package of 10, for use with trocars with LUER-Lock connector

14

7



Smoke gas filter for single use

The smoke gas filter is used to remove smoke vapor generated during surgical suction in order to reduce risks for the patient and OR personnel.

- Filtration of microorganisms, particles and toxic chemical substances
- Filter efficiency of > 99.9999% for the tested sample
- Flow rate up to 8 I/min at 15 mmHg
- For use in combination with, e.g., the s-pilot® with Tubing Set 031447-10 as well as a suction pump or central suction system
- The s-pilot® smoke evacuation management system provides smoke-free visibility during endoscopic interventions and helps remove surgical plume
- Smoke evacuation filter placed between the suction canister and the suction pump
- Packing unit with 10 items

031111-10 Smoke Gas Filter, unsterile, for single use, package of 10



Accessories for Equipment Carts



UG 603 UG 604	Shelf, 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 Shelf, wide, load capacity max. 60 kg, dimensions: 630 x 25 x 510 mm (w x h x d), for use with Equipment Carts UGxxx
UG 601	Drawer Unit with Lock, 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 Drawer Unit with Lock, wide, max. shelf load
UG 610	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 Sliding Tray Holder, narrow, load capacity max. 10 kg, dimensions: 450 x 510 mm (w x d),
UG 611	for use with Equipment Carts UG xxx Sliding Tray Holder, wide, load capacity max. 10 kg, dimensions: 630 x 510 mm (w x d), for use with Equipment Carts UG xxx
UG 608 UG 607	Equipment Rail, 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 Equipment Rail, 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
UG 619	Cable Manager, 2-piece, for mounting to vertical beam, package of 2, for use with Equipment Carts UG xxx

0-18















CO₂ 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 CO₂ Bottle Holder UG609

UG609

Bottle Holder, for CO_2 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

HOPKINS® RUBINA® Telescopes





Diameter 10 mm, length 31 cm Trocar size 11 mm

26003ARA

26003BRA

26003FRA

26003FREA

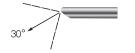




HOPKINS® RUBINA® 0°, NIR/ICG,

straight forward telescope 0°, enlarged view, diameter 10 mm, length 31 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated,

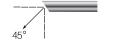
color code: green



HOPKINS® RUBINA® 30°, NIR/ICG,

forward-oblique telescope 30°, enlarged view, diameter 10 mm, length 31 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated.

color code: red



HOPKINS® RUBINA® 45°, NIR/ICG,

forward-oblique telescope 45°, enlarged view, diameter 10 mm, length 31 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated,

color code: black



HOPKINS® RUBINA® 45°, NIR/ICG.

forward-oblique telescope 45°, enlarged view, diameter 10 mm, length 42 cm, **autoclavable**, for indocyanine green (ICG), fiber optic light transmission incorporated,

color code: black

Recommended light cables for fluorescence-assisted perfusion assessment with ICG



495NCSC

Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm

495NAC

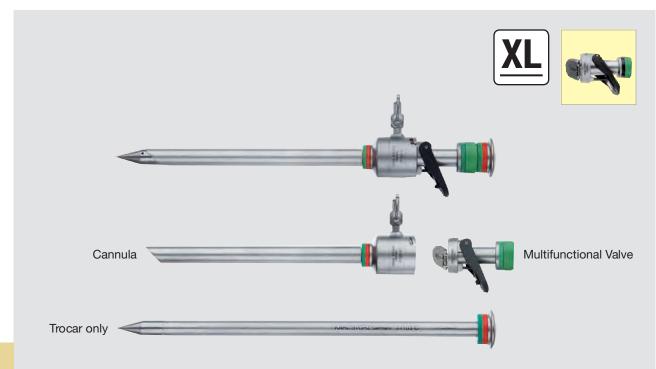
Fiber Optic Light Cable, with straight connector, extremely heat-resistant, with safety lock, enhanced light transmission, can be used for ICG applications, diameter 3.5 mm, length 230 cm

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Trocars for Adipose Patients

Size 6, 11 and 13.5 mm





Size:	6 mm	11 mm	13.5 mm	
Working length:	15 cm	15 cm	15 cm	
Color code:	black-red	green-red	blue-red	
Trocar, with conical tip including:	31160 MC	31103 MC	-	
Cannula	31160 H1	31103 H1		
Trocar only	31160 C	31103 C		
Multifunctional Valve	30160 M1	30103 M1		
Trocar, with pyramidal tip including:	31160 MP	31103 MP	31108 MP	
Cannula	31160 H1	31103 H1	31108 H1	
Trocar only	31160 P	31103 P	31108 P	
Multifunctional Valve	30160 M1	30103 M1	30108 M1	
Trocar, with blunt tip including:	31160 MA	31103 MA	-	
Cannula	31160 H1	31103 H1		
Trocar only	31160 A	31103 A		
Multifunctional Valve	30160 M1	30103 M1		

Telescopes for use with trocars size 6 mm see page 33
Telescopes for use with trocars size 11 mm see pages 31, 35, 38-40
HEINKEL-SEMM Dilation Set see page 78, Accessories for Trocars see pages 76-77

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Fiber Optic Light Cables

for Cold Light Fountains



	Fiber Optic 495 NE	Light Cable with Straight Connector Fiber Optic Light Cable, diameter 4.8 mm,
	495 NCS	length 300 cm 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
	₩ €₩ 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
Ť	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
	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 NVC 495 NV/NVL/NVB	495 NV	Fiber Optic Light Cable, with 90° deflection to the instrument, diameter 3.5 mm, length 230 cm
1	Light Adapt	tor, 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

Insufflation Tubing Sets, **Gas Filters and Accessories**



STERILE



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Special Features:

- Protects patients and equipment against contamination
- Gas flow of up to 50 I/min
- Preheated gas for better view and patient comfort (031210-10)

For use with electronic ENDOFLATOR®, THERMOFLATOR®, **ENDOFLATOR® 40 and ENDOFLATOR® 50**









031200-10



031210-10

031122-25 Gas Filter, with ISO connectors, hydrophobic on both sides, sterile, for single use, package of 25, for use with insufflation units with a

maximum gas flow of 50 I/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)

031200-10 Insufflation Tubing Set with Gas Filter, length 300 cm, hydrophobic

on both sides, sterile, for single use, package of 10, for use with insufflation units with a maximum gas flow of 50 I/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)

031210-10 Insufflation Tubing Set with Gas Filter, length 300 cm, heatable,

hydrophobic on both sides, sterile, for single use, package of 10,

for use with ENDOFLATOR® 50

Optional Accessories for Insufflators



				ENDOFIATOR® 40 SCB	
				ENDOFLA	ENDOFLA: UI 500S1
	031200-10	Insufflation Tubing Set with Gas Filter, length 300 cm, hydrophobic on both sides, sterile, for single use, package of 10, for use with insufflation units with a maximum gas flow of 50 l/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)	STERILE 2	•	•
	031210-10*	Same, heatable	STERILE	-	•
	031122-25	Gas Filter, with ISO connectors, hydrophobic on both sides, sterile,	STERILE		
		for single use, package of 25, for use with insufflation units with a maximum gas flow of 50 l/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)	2	•	•
	UI 004	Insufflation Tube, sterilizable, inner diameter 9 mm, length 250 cm		•	•
	031622-10	Insufflation Tubing Set with Gas Filter, length 400 cm, two patient-side tube connections, hydrophobic on both sides, sterile, for single use, package of 10, for use with insufflation units with a maximum gas flow of 30 l/min (Electronic ENDOFLATOR®, THERMOFLATOR®, ENDOFLATOR® 40 and ENDOFLATOR® 50)	STERILE 2	•	•
<u> </u>	26120 J	VERESS Pneumoperitoneum Needle, with spring-loaded blunt inner cannula, LUER-Lock autoclavable, diameter 2.1 mm, length 10 cm		•	•
	30103 HP	HICAP® Trocar, size 11 mm, color code: green		•	•