

# INGENIOUS

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m e d i c a l

## ENDOSCOPIC EQUIPMENT

■ INGENUITY  
■ FOR  
■ HEALTH

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## ABOUT US

**INGENIOUS** medical GmbH, is one of the leading companies in the field of minimal invasive medicine being involved in the design, development, manufacturing and distributing of high end endoscopic equipment such as: Video Endoscopic Systems, Light Sources, Insufflators and Medical Fluid Pumps in additional to all surgical accessories in the field of arthroscopy, ENT, gynecology, laparoscopy and urology.

At our company, quality has the highest status. All our solutions accord to certification DIN EN ISO 13485 and fulfill all stringent requirement concerning medical devices according to MDR. Our products are designed and manufactured by qualified, well trained engineers and technicians working in modern production facilities with the highest medical standards at different production sites in Germany.

Our products are selected and moderated to comply all the tools needed in advanced surgical procedures. Continuous innovations are always under study and enhancement to serve surgeons with the best tools.

With **INGENIOUS** products, our customers rely on – **Made in Germany** – **quality and durability**.



ENT



GYNECOLOGY



LAPAROSCOPY



ORTHOPEDICS



UROLOGY

# SPECTRA 4K VISION

Centerpiece of a high-end 4K UHD endoscopic camera system offering 4K and Full HD outputs for maximum flexibility. Optimized settings for laparoscopy, arthroscopy, gynecology, urology, ENT, fiberscopes and neuroendoscopy.



## FEATURES

- 3 Chip CMOS ultra-high sensitivity sensor
- 4K UHD imaging with resolution 3840 x 2160
- 2 x optical zoom (plus 3 x digital zoom)
- Large UHD color space
- Connectivity to variant camera heads
- Image / video capturing via USB
- MIS-Bus interface for automatic and manual light source control via camera head

## STRENGTH

- **Automatic light control**
- **Color Shift 1 + 2**  
Spectral colors can be shifted and exchanged in order to enhance vessels and tissue structures
- **Smoke reduction**  
For a better view during dissection technologies (e.g. HF)
- **Selective Color Enhancement**  
For a much-improved representation of the vessels and the tissue structure
- **Grid removal**  
Reduces the honeycomb structure of image bundle endoscopes

## TECHNICAL DATA FOR CAMERA CONTROLLER

Power connection	100 - 240 VAC, 50/60 Hz
Operation control panel	On-Off, menu, white balance, photo, video
Video outputs 4K-UHD	4 x 3G-SDI (3840 x 2160, 50 / 60p)
Video outputs HD	2 x 3G-SDI, 2 x DVI (1080p)
Remote outputs	2 x 3.5 mm (to connect recording / printer devices)
Remote inputs	2 x 3.5 mm (to connect a foot control switch) 2 x USB
Connectivity	MIS-Bus interface
Dimensions / Weight	295 x 130 x 355 mm (W x H x D) / 6.6 Kg
Power consumption	0.8 - 0.4 A

## TECHNICAL DATA FOR CAMERA HEAD

Image sensor	3 x 1/3" CMOS, progressive scan
Function keys	3 individually programmable and illuminated keys
Endocoupler	For standard ocular, lockable
Parfocal zoom	f = 14.25 - 28 mm
Waterproof connection plug	Yes
Lockable endoscope connection	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	300 g

## ORDERING DATA

Order No.	Description
100-105-01	Controller 4K UHD USB Image / Video Capture
100-105-02	Camera Head 4K UHD Zoom
100-105-03	Reprocessing tray for camera heads
100-111-00	USB Medical keyboard FlexiVision, German layout
100-111-01	USB Medical keyboard FlexiVision, US layout

# SPECTRA VISION III

The combination of excellent image quality and brilliant color reproduction makes this camera the ideal accessory to our endoscopes. The SPECTRA controller is optimized for the use of different camera heads ensuring long efficiency and easy handling.



## FEATURES

- 3 Chip CMOS ultra-high sensitivity sensor
- Full HD camera with resolution 1920 x 1080 pixels
- USB for full HD photo capturing
- Progressive scan with upscaling function to 4K imaging
- MIS-Bus interface for direct light source control via camera head
- Connectivity to variant camera heads

## STRENGTH

- **Ergonomic light, and waterproof camera head**
- **Selective Color Enhancement (SCE)**  
Highlighting vessels and tissue structures.
- **Smoke reduction**  
For a better view during dissection technologies (e.g. HF).
- **Grid removal**  
Reduces the honeycomb structure of image bundle endoscopes.
- **Clear view**  
Clears the view if liquid blurs the visibility.

## ■ TECHNICAL DATA FOR CAMERA CONTROLLER

Power connection	100 - 240 VAC; 50 - 60 Hz
Operation control panel	On-Off, menu, white balance, photo
Video outputs	High definition: 2 x DVI (1080p), 2 x HD-SDI (1080i)
Remote outputs	2 x 3.5 phone jack connectors (for recording /printer devices)
Remote inputs	2 x 3.5 phone jack connectors (for foot control switch)
Connectivity	Ingenious MIS-bus interface
Dimensions / Weight	295 x 100 x 355 mm (W x H x D) / 4.39 Kg
Power consumption	0.8 - 0.4 A

## ■ TECHNICAL DATA FOR CAMERA HEAD

Image sensor	3 x 1/3" CMOS progressive scan
Image resolution lines	3 x 1920 x 1080 pixels
Function keys	3 individually programmable and illuminated keys
Endocoupler	For standard eyepiece
Length of camera cable / Weight	3.5 m / 230 g (without cable)

## ■ ORDERING DATA

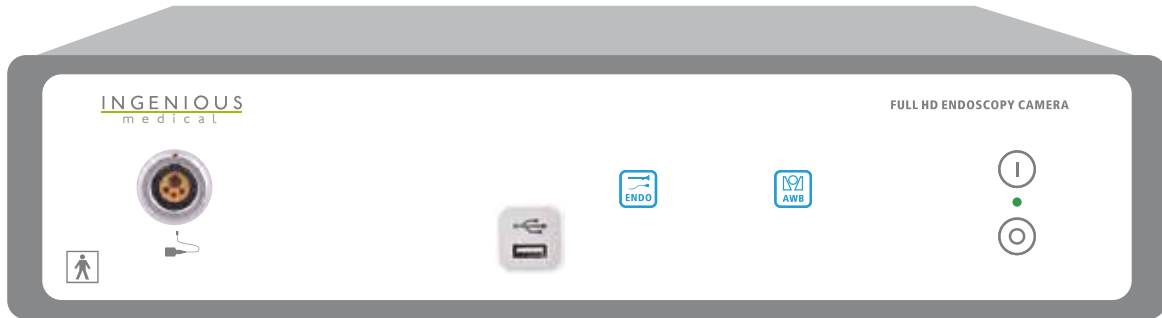
Order No.	Description
100-100-01	SPECTRA Vision controller; Video algorithms: Selective color enhancement; Smoke reduction; Grid removal; Clear view; USB for image capturing
100-100-02	3 Chip CMOS Full HD Camera head; straight with parfocal zoom, f = 14.25 - 28 mm
100-100-03	1 Chip CMOS Full HD Camera head; angulated 90°, f = 14.25 mm
100-100-04	USB Stick 16 GB
100-100-05	Foot control switch
100-111-00	USB Medical keyboard, German layout
100-111-01	USB Medical keyboard, US layout

## EPSILON VISION III

EPSILON VISION is the latest version of the high definition endoscopy cameras offered by INGENIOUS which delivers the clearest and sharpest picture. With the native progressive scan, the EPSILON VISION provides the sharpest detail with incomparable natural color rendition at the highest spatial and temporal resolution. With EPSILON VISION even the finest variations in tissue structures are distinguishable.

USB

FULL  
HD



### FEATURES

- 3 Chip CMOS ultra-high sensitivity sensor
- Full HD camera with resolution 1920 x 1080 pixels
- USB port for image capturing and video recording
- High sensitivity requires less light from illumination

### STRENGTH

- Waterproof camera head
- Clarity enhancement
- Color enhancement
- Mirror, flip and rotation function



## TECHNICAL DATA FOR CAMERA CONTROLLER

Power connection	100 - 240 VAC; 50 - 60 Hz
Operation control panel	On-Off, AWB, ENDO, USB
Output Signal	2x DVI-D or HDMI; 2x Digital 3G-SDI 1x Analog RGB; 2x S-video on Mini-Din 4 2x Composite Video
Dimensions / Weight	325 × 74 × 365 mm / 5.1 Kg
Power consumption	100 - 240 V; 35 - 45 VA

## TECHNICAL DATA FOR CAMERA HEAD

Image sensor	3 × 1/3" CMOS, progressive scan
Image resolution lines	1920 x 1080 pixels
Function keys	3
Endocoupler	For standard eyepiece
Length of camera cable / Weight	3 m / 90 g (without zoom coupler)

## ORDERING DATA

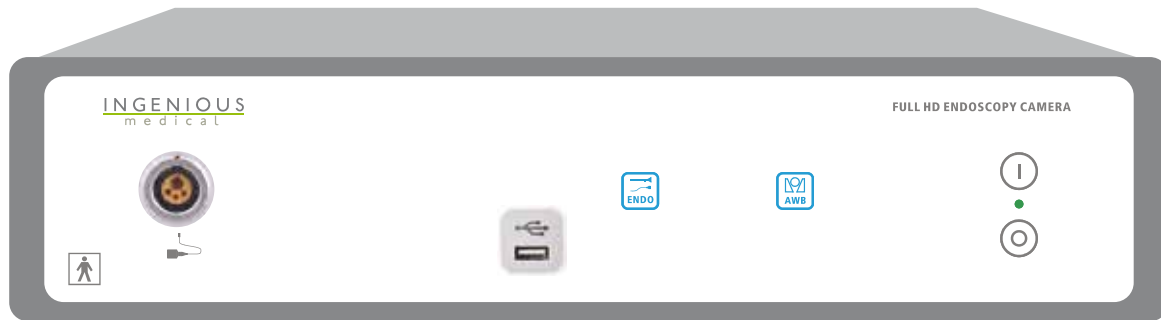
Order No.	Description
100-103-01	Epsilon Vision III controller; Edge enhancement; Color enhancement; USB for image & video capturing
100-103-02	3 chip CMOS Full HD camera head; straight
100-103-03	Parfocal zoom coupler f = 15 - 35 mm
100-111-00	USB Medical keyboard, German layout
100-111-01	USB Medical keyboard, US layout

# EPSILON VISION I

EPSILON VISION offered by INGENIOUS which delivers the clearest and sharpest picture. With the native progressive scan, the EPSILON VISION provides the sharpest detail with incomparable natural color rendition at the highest spatial and temporal resolution. With EPSILON VISION even the finest variations in tissue structures are distinguishable.

USB

FULL  
HD



## FEATURES

- 1 Chip CMOS ultra-high sensitivity sensor
- Full HD camera with resolution 1920 x 1080 pixels
- USB port for image capturing and video recording
- High sensitivity requires less light from illumination

## STRENGTH

- Waterproof camera head
- Clarity enhancement
- Color enhancement
- Mirror, flip and rotation function

## TECHNICAL DATA FOR CAMERA CONTROLLER

Power connection	100 - 240 VAC; 50 - 60 Hz
Operation control panel	On-Off, AWB, ENDO, USB
Output Signal	2x DVI-D or HDMI; 2x Digital 3G-SDI 1x Analog RGB; 2x S-video on Mini-Din 4 2x Composite Video
Dimensions / Weight	325 × 74 × 365 mm / 5.1 Kg
Power consumption	100 - 240 V; 35 - 45 VA

## TECHNICAL DATA FOR CAMERA HEAD

Image sensor	1/3" CMOS, progressive scan
Image resolution lines	1920 x 1080 pixels
Function keys	3
Endocoupler	For standard eyepiece
Length of camera cable / Weight	3 m / 90 g (without zoom coupler)

## ORDERING DATA

Order No.	Description
100-104-01	Epsilon Vision I controller; Edge enhancement; Color enhancement; USB for image & video capturing
100-104-02	1 chip CMOS Full HD camera head; straight
100-104-03	Parfocal zoom coupler f = 13 - 32 mm
100-111-00	USB Medical keyboard, German layout
100-111-01	USB Medical keyboard, US layout

## PORTABLE COMPACT CAMERA SYSTEM

INGENIOUS portable FULL HD imaging system is uniquely designed for office procedures. The compact system is offered with 24" displays with a Wifi connectivity option.



### FEATURES

- 1 Chip CMOS high sensitivity sensor
- FULL HD camera with resolution 1920 x 1080 pixels
- USB port for image capturing and video recording

### STRENGTH

- IPS full view 178°
- Waterproof camera head
- Color enhancement
- Support wifi connectivity

### ORDERING DATA

Order No.	Description
100-101-01	Compact Portable Camera System with 24" LCD monitor
100-101-02	Basic Compact Portable Camera System with 24" LCD monitor

## TECHNICAL DATA

Order No.	100-101-01	100-101-02
<b>MONITOR SIZE</b>	24 Inch	24 Inch
Output Video	16:9 1920 x 1080 P50 / 60 fps	
Effective Pixels	≥ 2 Mega Pixels	
Scanning System	Progressive Scanning	
Image Settings	AWB, Freeze, Color Adjustment, Scene Change, Anti Moire ... etc.	
Surgical Profiles	10 profiles	No profiles
Record Format	MKV	
Record Device	USB	
Capture Photo	JPG	
<b>LIGHT SYSTEM</b>		
Lamp	LED	
Light Power	80 watt	
Illumination	2,000,000 Lux	
Color Temp.	5700 - 6500 K	
CRI	> 90	
Lamp Life	20,000 hours	
<b>DISPLAY MONITOR</b>		
Screen Standard	Medical Class	
Brightness	450 Cd/m <sup>2</sup>	
Angle of View	178° Full view	
Display Colors	16.2 millions	
<b>NETWORK SYSTEM</b>		
Software APP	Android / iOS / iPad / Computer	
Connectivity	Network cable or WIFI	
<b>CAMERA HEAD</b>		
Dimension	38 x 45 x 130 mm	
Weight	200 g	
Camera Sterilization	Waterproof IPX 7	
Camera Button	AWB + Freeze	
<b>PROCESSOR UNIT</b>		
Processor Output	HDMI + DVI + VGA + RJ45	SDI
Processor Button	AWB, Freeze, Brightness, Record, Photo, Zoom, Playback photos	
Processor Dimension	560 x 380 x 240 mm	
Processor Weight	12 Kg	

# SPECTRA 300 LED LIGHT SOURCE

Our latest LED light source with a long life term and a low total power consumption. It has an outstanding light performance and offer an optimized connection to the light guide cable. Integrated INGENIOUS MIS-bus interface offers direct connectivity to light intensity which can be adjusted from camera head.



## FEATURES

- Number of lumens: 1420
- Color temperature: 5600 Kelvin

## STRENGTH

- Multi light guide adapter for Storz, Olympus, Wolf and ACMI
- Light output comparable to 300W Xenon
- Standby mode for the LED
- Memory of recent settings

## TECHNICAL DATA

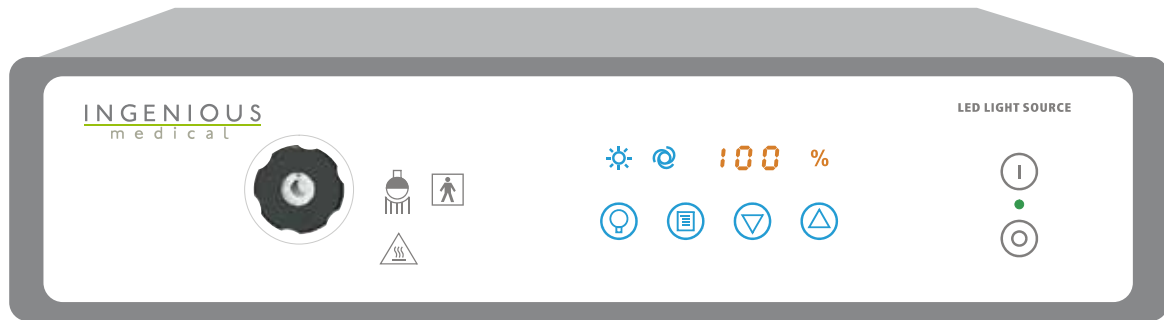
Type of Lamp	LED
Power Connection	100 - 240 VAC; 50 - 60 Hz
Connectivity	INGENIOUS MIS-Bus interface
Dimensions / Weight	295 x 130 x 355 mm / 8 Kg
Power consumption	1.6 - 0.6 A

## ORDERING DATA

Order No.	Description
100-200-00	SPECTRA 300 LED light source

# EPSILON 300 LED LIGHT SOURCE

The EPSILON LED light source has a very high efficiency and a very long-life expectancy. It is a super silent product generating no more than 30 dB (A) airborne noise, four times quieter than other products. The airborne noise is hardly audible, preventing the annoying noise in the operation room and providing a comfortable operating environment. The EPSILON LED is offering a high intensity illumination with automatic or manual adjustment.



## FEATURES

- Lamp life term: > 40,000 hrs.
- Color temperature: 6000 kalvin

## STRENGTH

- Auto & Manual dimming methods
- Super silent product
- Consistent color temperature

## TECHNICAL DATA

Type of lamp	LED
Power connection	100 – 240 VAC; 50 – 60 Hz
Connectivity	BNC Connector
Dimensions / Weight	325 × 74 × 365 mm / 6.5 Kg
Power consumption	100 W

## ORDERING DATA

Order No.	Description
100-203-00	EPSILON 300 LED light source

# LIGHT CABLES

Light Guide Cables dedicated for light endoscopy devices. Made from special fiber bundle to provide efficient transmission of light and the highest number of lumens reaching an endoscope. Fully autoclavable. Two fixed connectors making it easy to connect a light source and an endoscope.



## LIGHT GUIDE CABLES

Order No.	Description
100-222-00	Fiber optic light cable Ø 3.5 mm; length 1.8 m
100-222-01	Fiber optic light cable Ø 3.5 mm; length 2.3 m
100-222-02	Fiber optic light cable Ø 3.5 mm; length 3 m
100-222-03	Fiber optic light cable Ø 4.8 mm; length 1.8 m
100-222-04	Fiber optic light cable Ø 4.8 mm; length 2.3 m
100-222-05	Fiber optic light cable Ø 4.8 mm; length 3 m

## ADAPTERS SUITABLE FOR LIGHT SOURCES

Order No.	Description
100-222-09	Adapter suitable for light source - INGENIOUS / Storz light source
100-222-10	Adapter suitable for light source - Wolf light source
100-222-12	Adapter suitable for light source - ACMI light source
100-222-13	Adapter suitable for light source - Olympus light source
100-222-14	Adapter suitable for light source - Olympus light sources LCV - S20, -30, -40

## ADAPTERS SUITABLE FOR ENDOSCOPES

Order No.	Description
100-222-15	Adapter suitable for endoscopes - INGENIOUS / Storz endoscope
100-222-16	Adapter suitable for endoscopes - Wolf endoscope
100-222-17	Adapter suitable for endoscopes - ACMI endoscope



# SPECTRA INSUFFLATOR

State of the art technology for high performance intelligent insufflation system for highest requirements. Laparoscopic Insufflator is to establish and maintain a pneumoperitoneum with CO<sub>2</sub> gas for diagnostic or operative Laparoscopy. Easy to operate manufactured with highest quality level in a compact design. Including an integrated thermal module, auto pressure relief and different modes.



## FEATURES

- Regulated pressure and flow
- Compact design
- 30 and 45 liter flow rate
- Digital display for abdominal pressure, gas flow and consumption

## STRENGTH

- Integrated heating module
- Auto pressure relief
- Powerful gas insufflation
- Infant and bariatric modes

## TECHNICAL DATA

Power Connection	100 - 240 VAC; 50 - 60 Hz
Insufflation medium	Abdominal Cavity
Dimensions	350 x 130 x 360 mm
Weight	8 Kg
	8.5 kg unit equipped Smoke Evacuation
Noise emission	< 40 dB (A)
Maximum gas flow	0,1 - 30 L/min Type 100-300-00 and 100-300-01 0,1 - 45 L/min Type 100-300-02
Pressure setting range	3 - 30 mmHg
Power consumption	100 VA (unit equipped with CO <sub>2</sub> heater) 1000 VA (with Smoke Evacuation)

## ORDERING DATA

Order No.	Description
100-300-00	30 L/min CO <sub>2</sub> Insufflator with internal gas heating
100-300-01	30 L/min CO <sub>2</sub> Insufflator with internal gas heating and smoke evacuation
100-300-02	45 L/min CO <sub>2</sub> Insufflator with internal gas heating
100-300-03	Reusable tube insufflation with gas heating; Length 2.75 m
100-300-04	Single use tube insufflation with gas heating; Length 2.75 m (10 pcs/box)
100-300-05	Single use tubing for smoke evacuation; Only in combination with insufflation devices equipped with smoke evacuation system
100-300-06	Single use tube for insufflation without gas heating
100-300-07	Hygiene Filter for insufflator (50 pcs/box)
100-300-08	Adapter without filter 1 piece for heating tube multi use 100-300-03
100-300-09	Filter external piece for CO <sub>2</sub> - connection (back side unit)
100-300-10	Foot switch for smoke evacuation control
100-300-11	PIN-Index < > US (HIGH-PRESSURE) CO <sub>2</sub> - connection-tubing (HIGH-P), bottle (PIN-index) - device (PIN-index) / L = 1 m
100-300-12	Germany < > US (HIGH-PRESSURE) CO <sub>2</sub> - connection-tubing (HIGH-P), bottle (D) - device (US) / L = 1 m
100-300-13	Italy < > US (HIGH-PRESSURE) CO <sub>2</sub> - connection-tubing (HIGH-P), bottle (Italy) - device (US) / L = 1 m

# SPECTRA PUMP FOR LAPAROSCOPY

Suction and irrigation pump dedicated to laparoscopic surgeries. The optimum adjustment of pressure and flow parameters allows for effective tissue rinsing and effective aspiration of fluid during laparoscopic procedures.



## FEATURES

- Autonomous suction and irrigation channels
- Irrigation based on the peristaltic pump module
- Suction based on the high quality vacuum pump module
- Predefined suction and irrigation parameters
- Working parameters controlled by suction – irrigation laparoscopic instruments

## STRENGTH

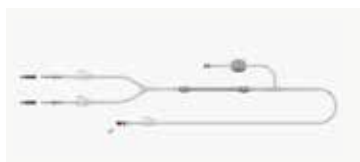
- Minimal invasive technique of transporting fluid to and from a surgical site
- Easy setup
- Acoustic and visual warning in case of incorrect tubing placement
- Remote control option

## TECHNICAL DATA

Power Connection:	100 - 240 VAC; 50 - 60 Hz
Max. flow rate in irrigation channel	1,8 l/min (+/- 10 %)
Max. flow in the suction channel	1,8 l/min (+/- 10 %)
Max. pressure in irrigation channel	400 mmHg (+/- 50 mmHg)
Suction pressure	50 kPa to - 60 kPa
Dimensions / Weight	330 x 120 x 306 mm / 8 Kg

## ORDERING DATA

Order No.	Description
100-400-00	Suction-Irrigation Pump for Laparoscopy (with tubing starting pack)
100-400-01	Remote Controller
100-444-00	Tubing set for irrigation pump - Single Use Patient Part (SUPP) - (50 pcs/box)
100-444-01	Tubing set for irrigation pump - Daily Use Pump Part (DUPP) - (10 pcs/box)
100-444-02	Tubing set for irrigation pump - Single Use Tubing Set (SUTS) - (10 pcs/box)
100-400-04	PV-5512STF Filter connection silicon tubing (1 pc/box)
100-400-05	Hydrophobic filter High flow rate filter (50 pcs/box)
100-400-06	Hydrophobic filter high flow - suction filter
100-400-07	Silicone tubing ID 6 x 12 mm - 1 m
100-400-10	Collection jar 2 L, autoclavable 134 C, with pressure fit lid with silicone ring
100-400-11	Plastic collection jar for 1.4 L suction liner, with molded hanger, non-autoclavable
100-400-12	Suction liner 1.4 L single-use with mechanical safety valve (50 pcs/box)
100-400-13	Plastic collection jar for 0.8 L suction liner, with molded hanger, non-autoclavable
100-400-14	Suction liner 0.8 L single-use with mechanical safety valve (50 pcs/box)
100-400-15	Wall bracket, aluminum, for wall mounting
100-400-19	Floor stands for 2 L collection jars
100-400-20	O-ring for 2 L jars, 7.65 x 1.78



### SINGLE-USE TUBING SET (SUTS)

Installed directly to the pump control unit to endoscopy sheath. Use of single-use tubing sets enforces their change after each surgery.



### DAY-USE PUMP PART (DUPP)

Installed directly to the pump control unit and a Single-Use Patient Part (SUPP)



### SINGLE-USE PATIENT PART (SUPP)

Installed directly to a Day-Use Pump Part (DUPP) and to an endoscopy sheath.

# SPECTRA UNIVERSAL IRRIGATION PUMP

A medical fluid pump designed to deliver fluid under a given pressure to an operating area. The device dedicated for arthroscopic, hysteroscopic and urologic surgeries. Controlled by a control unit panel for a remote controller. Used with disposable and day-use tubing sets.



## FEATURES

- Pressure range: 10 – 200 mmHg
- Flow range: 0.1 – 2.0 L/min

## STRENGTH

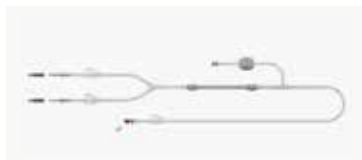
- FLUSH function for an efficient rinsing of an operating area
- Non-volatile memory of recent settings
- Three working modes of the Universal Fluid Pump
- Minimal invasive technique of transporting fluid to and from a surgical site
- A very precise calibration of the measuring system through level function
- Non-volatile memory of recent settings
- Acoustic and visual warning in case of incorrect tubing placement
- Optional control by a remote controller

## TECHNICAL DATA

Power Connection	100 – 240 VAC; 50 - 60 Hz
Pressure range	10 – 200 mmHg ± 10 %
Flow range	0.1 – 3.0 L/min ± 10 %
Dimensions / Weight	330 x 120 x 306 mm (W x H x D) / 7.5 Kg

## ORDERING DATA

Order No.	Description
100-400-02	PV-5201AUH Universal Fluid Pump with tubings starter set
100-400-03	Remote Controller
100-444-00	<b>Tubing set for irrigation pump - Single Use Patient Part (SUPP)</b> Single use part of the tubing set, that is applied for each patient (50 pcs/box)
100-444-01	<b>Tubing set for irrigation pump - Daily Use Pump Part (DUPP)</b> A part of the tubing set, that is applied once per one day of procedures (10 pcs/box)
100-444-02	<b>Tubing set for irrigation pump - Single Use Tubing Set (SUTS)</b> Complete tubing for single use (10 pcs/box)



### SINGLE-USE TUBING SET (SUTS)

Installed directly to the pump control unit to endoscopy sheath. Use of single-use tubing sets enforces their change after each surgery.



### DAY-USE PUMP PART (DUPP)

Installed directly to the pump control unit and a Single-Use Patient Part (SUPP).

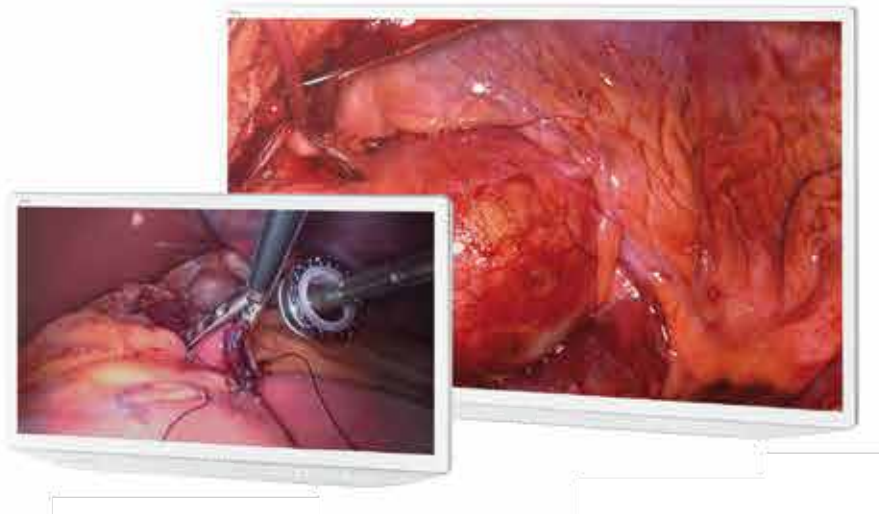


### SINGLE-USE PATIENT PART (SUPP)

Installed directly to a Day-Use Pump Part (DUPP) and to an endoscopy sheath.

# MEDICAL GRADE MONITORS

The Full HD and 4K monitors with an advanced display technology view high quality color video images from endoscopic/laparoscopic cameras and compatible medical imaging systems. Surgeons and clinical staff can view images on this entry-level LCD monitor that is designed for use in medical environments including operating rooms, surgical centers, clinics and consulting rooms.



## FEATURES

- Clear and high-contrast View
- Bright screen
- Multi connector panel

## STRENGTH

- Variety of display modes
- IPX 5 waterproof rating
- Installation-friendly cabling

## ORDERING DATA

Order No.	Description
100-500-00	15" Medical LCD Monitor
100-500-01	21" Full HD medical LCD monitor
100-500-02	24" Full HD medical LCD monitor
100-500-03	27" Full HD medical LCD monitor
100-500-04	27" Full HD medical monitor, Analogue & Digital
100-500-05	26" Full HD medical monitor with optical enhancement
100-500-06	32" Full HD medical monitor
100-501-00	31" 4K medical monitor
100-501-01	55" 4K medical monitor
100-555-00	Monitor Stand
100-503-00	27", 4K, Optical Bonding medical monitor
100-503-01	31" 4K, Non-Bonding, medical monitor

*For further information about the technical data, please contact us*

# RECORDING SYSTEMS

Medical Recorder (Surgical Version) has been designed for use in a wide range of clinical environments, from operating rooms to surgical centers and doctors' offices. Optimized for surgical applications and suitable for storing FULL HD videos.



## FEATURES

- FULL HD Video Storing still image recording
- Long recording time
- USB / DVD Input

## ORDERING DATA

Order No.	Description
100-600-01	HD Medical Video Recorder USB / NAS / DVD



## FEATURES

- FULL HD Video recording
- Supports DICOM worklists
- USB input

## ORDERING DATA

Order No.	Description
100-600-03	All in one HD Medical recorder



## FEATURES

- FULL HD Video recording
- USB input

## ORDERING DATA

Order No.	Description
100-600-04	Basic HD medical video and image recorder



# DIGITAL PRINTERS

Digital printers are suitable for Endoscopy. Offered in a compact design with high resolution photo quality with different sizes.



## FEATURES

- A4 size color print
- USB 2.0 Interface
- Superior self laminating roll media
- Grey / White color balance adjustment

## ORDERING DATA

Order No.	Description
100-700-00	A4 Digital Color Roll Printer



## FEATURES

- A6 size colour print
- USB 2.0 Interface
- Resolution of 423 dpi for high picture quality
- Advanced grey balance and HSV-color balance

## ORDERING DATA

Order No.	Description
100-700-01	Digital Color A6 Printer

# OR TROLLEYS



## BASIC STRUCTURE

- High performance copolymer basis, reinforced by supporting ribs
- Front wheels with a diameter of 75 mm, brake, anti-noise and anti-track
- Rear wheels with a diameter of 100 mm
- Mono-column in extruded aluminum profile, protected by a superficial oxidation treatment
- Shelves in steel sheets epoxy powder baked, which can be positioned at different heights

## DIMENSIONS

60.5 x 68.0 x 154.0 cm (W x D x H)

## ORDERING DATA

Order No.	Description
100-800-00	WOK Trolley with 1 base; 1 holder column; 4 shelves; 1 keyboard shelf; 1 Drawer; 1 Dual Bottle Holder; 1 Back handle; 1 Camera holder; 1 Monosolution VESA 100; 4 wheels (2 with brakes)
100-888-00	Trisolution Arm
100-888-01	Insulation Transformer 1600 VA

# OR TROLLEYS



## BASIC STRUCTURE

- Base in sheet steel with epoxy powder coated RAL 7035
- Antistatic wheels 125 mm diameter, brake, anti-noise and anti-trace
- Shelf holder columns made of aluminum painted with RAL 7035 epoxy powder
- Cable-holder columns made of aluminum painted with RAL 7035 epoxy powder
- Shelves in sheet steel painted with epoxy powder
- The shelves can be easily mounted at different heights (pitch 2.5 cm)

## DIMENSIONS

64.5 x 69.1 x 133.5 cm (W x D x H)

## ORDERING DATA

Order No.	Description
100-801-00	PP 600 Trolley with Keyboard shelf; Monitor holder VESA 75/100; Bottle gas holder diam. 150 mm; Camera holder; Front handle for 620 mm
100-801-01	Monitor holder VESA 75/100
100-801-02	Camera Holder
100-801-03	Front handle for 620 mm
100-801-04	Bottle gas holder diam. 150 mm
100-801-05	Rear panel 620
100-801-06	Keyboard shelf
100-888-00	Trisolution Arm
100-888-01	Insulation Transformer 1600 VA

# INGENIOUS

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