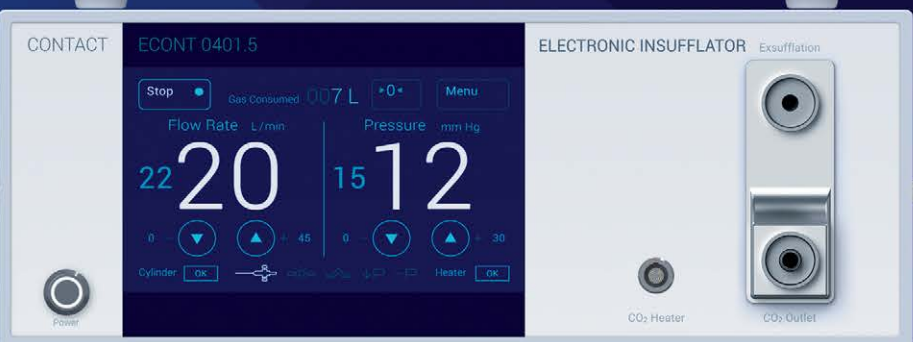
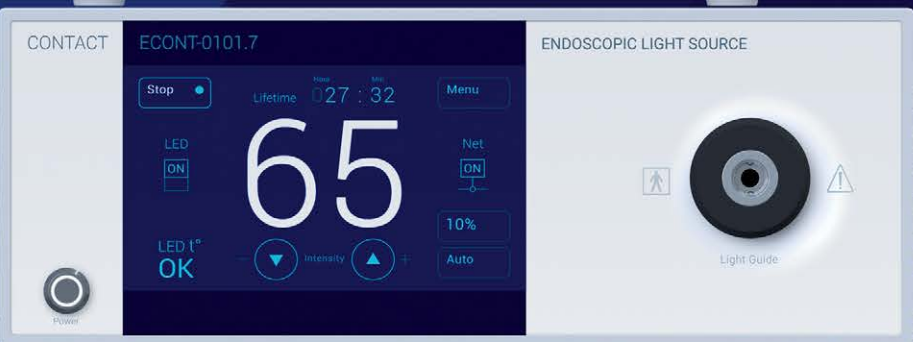
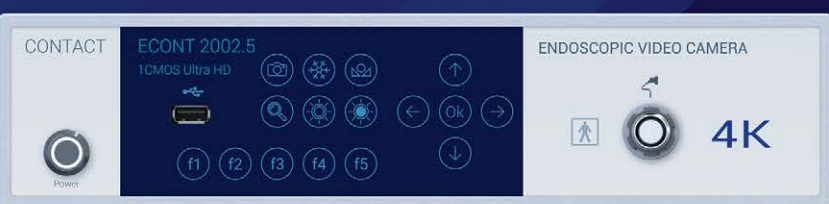




Contact
medical innovations

EQUIPMENT FOR ENDOSURGERY





SPM-001



ECONT-0401.2
ECONT-0401.3
ECONT-0401.5



ECONT-0201.1
ECONT-0201.2



ECONT-0201.3

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OUR COMPANY

Since 2001 Contact Co. has been engaged in manufacturing high-quality equipment for minimally invasive surgery and leading-edge electrosurgery equipment. With a qualified team of developers and skilled workers, the Contact Co. produces endoscopic equipment and ESUs as well as turn-key solutions for laparoscopy, arthroscopy, urology, bronchoscopy, gynecology and ENT.

We emphasize longevity and excellence for our products that have been developed in close cooperation with leading medical experts in minimally invasive technology. Our R&D department's engineers draw on recent research results and bring new scientific ideas to life. In cooperation with our Production department, they find solutions to satisfy our customers. Because of the large number of different variants and models, we can offer an

optimized solution with an excellent price-performance ratio.

We are proud to be one of the first medical equipment production companies in Ukraine which is certified in compliance with ISO 13485:2016 thus guaranteeing our customers proven quality. Our products are certificated in accordance with European Directive 93/42/EEC.

The know-how in medical technology and the constant strive for improvements are the keys to our success and the trust of our clients in our products.

OUR COMPANY MISSION

is to improve people's lives by helping medical professionals deliver the best possible patient care through innovative technologies.



MEDICAL CART

SPM-001 Medical Cart

SPM-001 medical cart is intended for placing endosurgical (endoscopic) equipment on its 4 adjustable shelves.

FEATURES:

- all wiring can be made hidden in side racks
- 8 socket outlets with interferences filtering
- articulating supporting arm for TFT monitor (option)
- holder for flexible endoscopes (option)
- compartment with lock for accessories
- mountable enclosure with a door at the back side of the cart
- easy and soft rolling motion
- locking brakes on the front wheels for safety use
- sliding shelves for keyboard and mouse (option)
- attractive appearance

ORDERING DATA:

- 01.0001.300 SPM-001.3 Medical Cart
- 01.0001.301 Cylinder holder
- 01.0001.302 Suction and irrigation bottles holders kit
- 01.0001.303 Articulated supporting arm for assistant TFT monitor
- 01.0001.304 Articulated supporting arm for main TFT monitor
- 01.0001.305 Flexible endoscopes holder
- 01.0001.306 Irrigation solution bags holder
- 01.0001.307 Fixture set for 21" and 23.8" monitors
- 01.0001.308 Sliding shelf for keyboard
- 01.0001.309 Sliding shelf for mouse manipulator
- 01.0001.310 Medical Isolation transformer 2000 VA



ELECTRONIC INSUFFLATORS



Big TFT display



Comfy menu



Modern tech.



Easy to clean



ORDERING DATA:

01.0401.200 ECONT-0401.2 Electronic Insufflator

01.0401.300 ECONT-0401.3 Electronic Insufflator

ECONT-0401.2



FEATURES:

- audible alarm signalling system in case of a failure (hose pinching, intra-abdominal overpressure etc.)
- display of all current and preset insufflation parameters: set/current pressure, gas flow speed, volume of gas supplied
- device can be used with gas bottles or central gas supply systems - input pressure range 5...100 bars (with external reducer)
- insufflator is available with a high efficient gas heater (option)
- automatic self check is activated each time the unit is switched on to ensure that all electronic and pneumatic components are in good running order

ECONT-0401.3



FEATURES:

- stable pressure balance in the abdomen is guaranteed by high gas flow performance (40 liters per minute) and low insufflation pressure
- patient safety is ensured by the system of protective valves, by microprocessor control with audible and visual signaling
- audible alarm signalling system in case of a failure (hose pinching, intra-abdominal overpressure etc.)
- device can be used with gas bottles or central gas supply systems - input pressure range 5...100 bars
- big TFT display gives a quick overview of the rated and actual values of gas pressure and gas flow
- setting of the working parameters is made by touching controls on touch-screen multilanguage menu
- for eliminating of post surgery problems the insufflator is equipped with a high efficient gas heater

SPECIFICATIONS

ECONT 0401.2

ECONT 0401.3

Insufflation pressure, mm Hg	1 ... 30	1 ... 30
Maximum gas flow rate, l/min	30	40
Range of the gas temperature maintenance, °C	33...36 (option)	33...36
Gas cylinder pressure indicator	Yes	Yes
Safety exsufflation valve	Yes	Yes
Display	LED	7" TFT Touch Screen
Protection class	I	I
Applied part	BF	BF
Standard	EN 60601-1; classification acc. to MDD 93/42/EEC: IIa	
Mains voltage, V	230	230
Dimensions, mm	350x140x350	350x140x350
Weight, kg	7,8	8,3

ELECTRONIC INSUFFLATORS



High performance



Smart Continuous Flow Algorithm



Gas heating system



High level of patient safety



Smoke evacuation



ORDERING DATA:

01.0401.500 ECONT-0401.5 Electronic Insufflator

ECONT-0401.5



FEATURES:

SAFETY

- automatic computer-supported check on device soft- and hardware when turning the unit on
- internal gas exsufflation valve is activated for automatical reduction of dangerous intraabdominal overpressure

ERGONOMIC DESIGN

- big 7" TFT display gives a quick overview of the rated and actual values of gas pressure, gas flow, alarms etc.
- setting of the working parameters is made by touching controls on touch-screen multilanguage menu

PERFORMANCE

- high flow rate capacity of 50 l/min quickly compensates for even big gas losses
- insufflator's Smart Continuous Flow algorithm ensures insufflation depending on the filling level

of the body cavity, thus an optimized filling speed is achieved with fully automatic, situation-related insufflation pressure values. A continuous gas flow provides a filling procedure with small pressure fluctuations in the body cavity and a high average insufflation performance

GAS HEATING

- for eliminating of post surgery problems the insufflator is equipped with a high efficient gas heating subsystem

SMOKE EVACUATION

- evacuation of smoke and mist generated during electrosurgery and ultrasonic procedures can be made by pressing the footswitch

GAS SUPPLY

- device can be used with gas bottles or central gas supply systems - input pressure range 5...100 bars

SPECIFICATIONS

ECONT 0401.5

Insufflation pressure, mm Hg	1 ... 30
Maximum gas flow rate, l/min	50
Range of the gas temperature maintenance, 0C	33...36
Gas cylinder pressure indicator	Yes
Active exsufflation, Smoke evacuation	Yes / Yes
Display	7" TFT Touch Screen
Protection class	I
Applied part	BF
Standard	EN 60601-1; classification acc. to MDD 93/42/EEC: IIa
Mains voltage, V	230
Dimensions, mm	350x140x350
Weight, kg	8,5

ELECTROSURGICAL GENERATORS



Big TFT display



Comfy menu



High performance



Easy to clean



ORDERING DATA:

01.0201.100 ECONT-0201.1 High frequency electrocautery generator

01.0201.200 ECONT 0201.2 High frequency electrocautery generator

ECONT-0201.1



FEATURES:

- adaptive system with output power stabilization in wide range of tissue resistances (100-1000 Ohms)
- neutral electrode continuity and LF current leakage monitoring that ensure safety
- self-test of the generator and accessories after switching the power on
- monopolar modes activation: by footswitch or handle buttons
- monopolar cutting in liquid (TUR mode)
- up to 9 frequently used by surgeon modes can be saved in memory
- flat front panel, easy to clean, with pushbuttons for modes and power regulation

ECONT-0201.2



FEATURES:

- adaptive system with output power stabilization in wide range of tissue resistances (100-1000 Ohms)
- neutral electrode contact quality and LF current leakage monitoring that ensure safety
- self-test of the generator and accessories after switching the power on
- monopolar modes activation: by footswitch or handle buttons
- Auto-Start & Auto-Stop coagulation in Bipolar mode
- monopolar cutting in liquid (TUR mode)
- up to 9 frequently used by surgeon modes can be saved in memory
- flat front panel, easy to clean, with touch screen menu for modes and power regulation
- colour 7" TFT display shows effective output power levels in all operating modes

SPECIFICATIONS

Monopolar cutting

Pure cutting	300 W @ 300 Ohms	300 W @ 300 Ohms
TUR cutting	300 W @ 300 Ohms	300 W @ 300 Ohms
Blend1	180 W @ 300 Ohms	180 W @ 300 Ohms
Blend2	210 W @ 300 Ohms	210 W @ 300 Ohms

Monopolar coagulation

SoftCoag	100 W @ 300 Ohms	100 W @ 300 Ohms
ForcedCoag	120 W @ 300 Ohms	120 W @ 300 Ohms

Bipolar coagulation

Bicoag1	90 W @ 200 Ohms	90 W @ 200 Ohms
Bicoag2	90 W @ 200 Ohms	90 W @ 200 Ohms
Generator operation frequency	440 kHz	440 kHz
Display / Controls	LED / pushbuttons	7" TFT / touch screen
Protection class	I	I
Applied part	BF	BF
Classification acc. to MDD 93/42 ECC	IIb	IIb
Low-frequency leakage currents	acc. to IEC 60601-1	acc. to IEC 60601-1
High-frequency leakage currents	acc. to IEC 60601-2-2	acc. to IEC 60601-2-2
Mains voltage, V	230	230
Power consumption, W, max.	650	650
Dimensions, mm	350x140x350	350x140x350
Weight, kg	7,3	7,3

ELECTROSURGICAL GENERATOR



Argon Plasma



Modes



Vessel Sealing



Easy to clean



ORDERING DATA:

01.0201.300 ECONT-0201.3 High frequency electrosurgical generator

01.0201.310 ECONT-0201.3 High frequency electrosurgical generator with APC option

ECONT-0201.3



FEATURES:

- 2 Monopolar and 2 Bipolar outputs
- variety of standard Cut/Blend/Coag modes along with Bi-TUR, Ligate, Argon plasma ones
- wide angle color LCD Touch Screen Display
- user programmable 199 memory locations which saves complete user profile
- simultaneous coagulation facility for 2 surgeons in Monopolar
- independent different settings for 2 Monopolar outputs
- Monopolar Blend has 17 steps user adjustable setting to achieve varying cutting/ haemostasis effects
- Auto-Stop coagulation in Monopolar
- Auto-Start & Auto-Stop coagulation in Bipolar mode
- randomized Spray ON/OFF control in Monopolar Coagulation
- isolated Monopolar & Bipolar outputs
- suitable for all Underwater, Laparoscopic & Open Surgeries
- digital volume control with audio & visual alarm
- graphical patient plate contact quality indication
- provision to connect footswitch for each monopolar port
- adjustable continuous maximum HF activation timer
- active high frequency leakage monitoring controlling systems for enhanced safety
- optional APC Integration

SPECIFICATIONS

Monopolar Modes

Monopolar cutting

Pure	400 W @ 350 Ohms
LapCut	300 W @ 350 Ohms
Blend	250 W @ 350 Ohms
EndoCut	300 W @ 300 Ohms
i-Cut	200 W @ 300 Ohms
V-Cut	300 W @ 350 Ohms

Monopolar coagulation

Lo Spray	120 W @ 500 Ohms
Hi Spray	70 W @ 1000 Ohms
Fulgurate	150 W @ 500 Ohms
Lo Desiccate	120 W @ 500 Ohms
Hi Desiccate	180 W @ 500 Ohms
Soft	120 W @ 150 Ohms
Auto Desiccate	120 W @ 500 Ohms
Auto Soft	120 W @ 150 Ohms

Bipolar modes

Cut	120 W @ 100 Ohms
Macro	120 W @ 100 Ohms
Micro	100 W @ 100 Ohms
Auto Macro	120 W @ 100 Ohms
Auto Micro	100 W @ 100 Ohms
LowCut	120 W @ 100 Ohms
HighCut	120 W @ 100 Ohms

Bipolar (in-saline TUR) Cut

Low Cut	250 W @ 200 Ohms
Hi Cut1	300 W @ 200 Ohms
Hi Cut2	300 W @ 200 Ohms
Hi Cut3	300 W @ 200 Ohms
Effect 1	300 W @ 200 Ohms
Effect 2	300 W @ 200 Ohms

Ligate

Ligate	180 W @ 10 Ohms
F-Ligate	280 W @ 10 Ohms

Bipolar (in-saline TUR) Coagulation

Desiccate	250 W @ 25 Ohms
Force	250 W @ 25 Ohms

General Specifications

Generator operation frequency	360 kHz	Low-frequency leakage currents	—acc. to IEC 60601-1
Display / Controls	TFT / Touch-screen	High-frequency leakage currents	—acc. to IEC 60601-2-2
Protection class	I	Mains voltage, V	230
Applied part	CF	Power consumption, VA, max.	750
Classification acc. to MDD 93/42 ECC	IIb	Dimensions, mm / Weight, kg	420x170x380 / 8,0

ENDOSCOPIC LIGHT SOURCES



Big TFT display



Comfy menu



Modern tech.



Easy to clean



ORDERING DATA:

01.0101.400 ECONT-0101.4 Endoscopic light source

01.0101.500 ECONT-0101.5 Endoscopic light source

ECONT-0101.4



FEATURES:

- latest LED technology
- high intensity light output (equivalent to 300 W Xenon) at low power consumption
- extremely long LED service life – up to 50 000 hrs.
- low noise, low heat emitting
- light control via pushbuttons
- pure daylight quality
- waterproof control panel

ECONT-0101.5



FEATURES:

- latest LED technology
- extremely long LED service life – up to 50 000 hrs.
- high intensity light output (equivalent to 300 W Xenon)
- low noise, low heat emitting
- light intensity control via touch screen
- menu language selection (9 languages)
- pure daylight quality
- waterproof touch control panel
- non-volatile memory user settings
- shows the current settings on the color 7" TFT display

SPECIFICATIONS

ECONT 0101.4

ECONT 0101.5

Light source lifetime, hrs	50 000	50 000
Light source power, W	112	112
Light colour temperature, K	6500	6500
Adjustment of light intensity, %	0 ... 100	0 ... 100
Intensity adjustment	electronic	electronic
Controls	pushbuttons	touch screen
Protection class	I	I
Applied part	BF	BF
Standards	EN 60601-1; Class I according to MDD 93/42/EEC	
Dimensions, mm	350x150x350	350x150x350
Weight, kg	5,9	6,2
Mains voltage, V	230	230

SUCTION-IRRIGATION UNITS

ECONT-0301.2



FEATURES:

- based on a high performance roller pump
- intended for use in Laparoscopy
- two pressure sensors to ensure safety
- color 7" TFT display gives a quick overview of the rated and actual values of parameters
- touch-screen multilanguage menu
- check of all critical parameters of the device at power on
- non-volatile memory of the latest settings
- overpressure and container overflow protection.

ECONT-0301.3



FEATURES:

- based on 2 high-performance pumps
- microprocessor-controlled vacuum and overpressure in suction and irrigation channels in accordance with preset values (10 levels)
- indication of preset and current vacuum and overpressure levels on 10-segment bar LEDs
- suction or irrigation modes are activated by instrument (Auto mode) or by footswitch (Footswitch mode)
- automatic standby mode maintains the preset pressure and reduces the noise if the system is not in use

SPECIFICATIONS

ECONT 0301.2

ECONT 0301.3

Max vacuum in suction channel, mm Hg	600	600
Max overpressure in irrigation channel, mm Hg	450	300
Maximal fluid outgo, l/min	2,5	2,5
Controls	footswitch, automatic	footswitch, automatic
Protection class	I	I
Applied part	BF	BF
Standard	EN 60601-1; classification acc. to MDD 93/42/EEC: IIa	
Mains voltage, V	230	230
Power consumption, W, max.	70	70
Dimensions, mm	306 x330 x120	325x85x350
Weight, kg	8,7	5,8

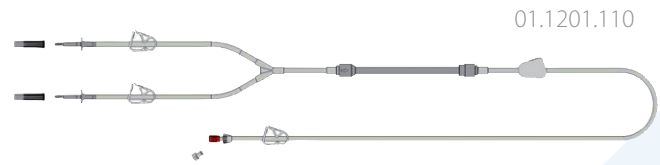
ORDERING DATA:

01.0301.200 ECONT-0301.2 Suction-irrigation unit

01.0301.300 ECONT-0301.3 Suction-irrigation unit

UNIVERSAL FLUID PUMP

ECONT-1201.1



FEATURES:

- device can be used in 4 modes: Laparoscopy, Arthroscopy, Urology and Hysteroscopy
- FLUSH function enables efficiency increase of fluid flow up to 2 l/min
- LEVEL function gives a possibility to calibrate the measuring system by the user relative to the operation area for real pressure measurement in the operating area. The adjustment is in range from -100 cm to +100 cm.
- two pressure sensors to ensure safety in case of failure of one of them
- color 7" TFT display gives a quick overview of the rated and actual values of working modes, parameters, alarms etc.
- setting of the working parameters is made by touching controls on touch-screen multilanguage menu
- embedded software that checks all critical parameters of the device
- non-volatile memory of the latest settings
- overpressure and container overflow protection.

SPECIFICATIONS

ECONT-1201.1

	Arthroscopy	Urology	Hysteroscopy	Laparoscopy
Pressure range, mmHg	5 – 150	15 – 150	15 – 150	10 – 450
Flow range, ml/min	50 – 2000	50 – 500	50 – 500	50 – 2500
Suction performance, l/min	max. 2,0	max. 2,0	max. 2,0	max. 2,0
Deficit monitoring	No	Yes	Yes	No
CE standard		MDD 93/42/EEC, Class IIa		
Applied part type		BF		
Protection class		I		
Dimensions, mm		306 x 330 x 120		
Weight, kg		8,7		
Mains voltage, V AC		230		

ORDERING DATA:

- 01.1201.100** ECONT-1201.1 Universal Fluid Pump
- 01.1201.110** Tube set for Irrigation, reusable, 30 uses
- 01.1201.111** Silicone membrane for 01.1201.110, 10 pc./pack, reusable, 10 uses
- 01.1201.120** Tube set for suction, reusable, 30 uses (option)
- 01.1201.140** Differential volume scale (option)
- 01.1201.150** Suction container, 4 liters, autoclavable (option)

ENDOSCOPIC VIDEO CAMERAS



Big TFT display



Comfy menu



Modern tech.



Easy to clean

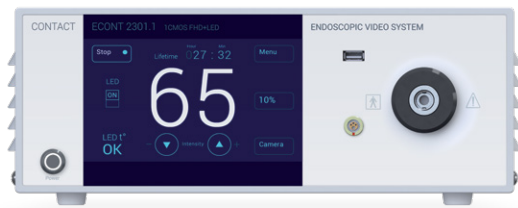


ORDERING DATA:

01.2301.100 ECONT-2301.1 1CMOS Full HD Endoscopic video system

01.2002.000 ECONT-2002 1CMOS Full HD Endoscopic video camera

ECONT-2301.1



ECONT-2301.1 Endoscopic Video System:
1CMOS FHD Camera + LED Light Source + DVR

FEATURES:

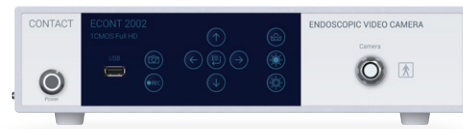
VIDEO CAMERA:

- 1x1/1.8" 16:9 CMOS ultra high sensitive image sensor
- full HD resolution: 1920 x 1080p
- 4 programmable control buttons on camera head
- 8 endoscope scenes for using different type of endoscopes
- 10x digital Zoom, Mirror and Freeze functions
- built-in recording module for saving HD movies/stills on USB media (memory stick, SSD, HDD)
- OSD menu control with mouse manipulator

LIGHT SOURCE:

- high intensity LED light output (equivalent to 300 W Xenon) at low power consumption
- extremely long LED service life - up to 50 000 hrs.
- full touch screen control for both camera and light source on the color 7" TFT display

ECONT-2002



ECONT-2002 1CMOS Full HD Endoscopic Video Camera

FEATURES:

- 1 x 1/1.8" 16:9 SONY CMOS image sensor
- full high definition resolution 1920x1080 pix. at 60 Hz
- 4 programmable control buttons on camera head
- 8 endoscope scenes for using different type of endoscopes
- 10x digital Zoom, Mirror and Freeze functions
- blood vessel enhancement mode
- entering and on-screen displaying Patient details
- multilanguage OSD menu (English, French, Spanish, Russian, Portuguese)
- built-in recording module for saving FHD movies/stills on USB media (memory stick, SSD, HDD)
- up to 1000 TV lines horizontal resolution
- SDI, DVI, HDMI and CVBS outputs
- OSD menu control with mouse manipulator

SPECIFICATIONS

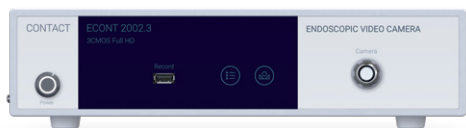
ECONT 2301.1

ECONT 2002

Image resolution	1920(H) x 1080(V) pix. progressive scan at 60Hz	1920(H) x 1080(V) pix. progressive scan at 60Hz
Image sensor	1 x 1/1.8" CMOS	1 x 1/1.8" CMOS
Resolution, TV lines	>1000	>1000
Signal to noise ratio, dB	55	55
Minimal illumination, lx	0,5	0,5
Video outputs	1xHDMI, 1xSDI, 1xDVI-D 1xCVBS	1xHDMI, 1xSDI, 1xDVI-D 1xCVBS
Electronic Zoom	1x ... 10x	1x ... 10x
Light source	LED	No
Shutter speed, 1/s	1/50...1/50 000	1/50...1/50 000
Mains voltage, V	230	230
Dimensions, mm/Weight, kg	350x150x350 / 7,5	320x85x230 / 4,2

ENDOSCOPIC VIDEO CAMERAS

ECONT-2002.3

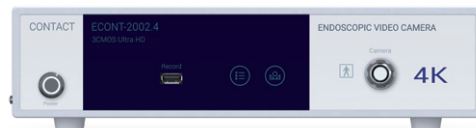


ECONT-2002.3 3CMOS Full HD Endoscopic Video Camera

FEATURES:

- 3 x 1/3" 16:9 CMOS image sensors
- full HD resolution: 1920 x 1080 pix. with progressive scan
- new image enhancement functions on clarity and color
- 5 Endoscope settings for using different type of endoscopes
- up to 2,5x digital Zoom function and Freeze function
- Mirror, Flip and Rotation functions
- built-in recording module for saving HD movies/stills on USB media (memory stick, HDD) (option)

ECONT-2002.4



ECONT-2002.4 3CMOS UHD (4K) Endoscopic Video Camera

FEATURES:

- 3 x 1/3" 16:9 image sensors
- Ultra-high definition resolution 3840x2160 pixels at 60 Hz
- up to 1600 TV lines horizontal resolution
- high interference immunity from electrosurgery
- light enhancement mode increases the visibility of shadowed objects
- quad 3G-SDI and 3xHDMI 2.0 outputs, simultaneous 4K and Full HD outputs
- on-device HD video recording and image capturing (option)

SPECIFICATIONS

ECONT 2002.3

ECONT 2002.4

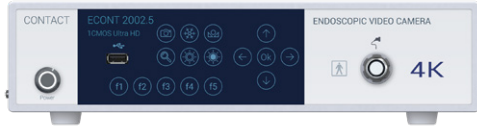
Image resolution	Full HD 1920(H) x 1080(V) pix. progressive scan	UHD 3840(H) x 2160(V) pix. progressive scan
Image sensor	1 x 1/3" CMOS	3 x 1/3" CMOS
Resolution, TV lines	>1000	>1600
Signal to noise ratio, dB	56	56
Minimal illumination, lx	<2,0	<2,0
Video outputs	2xCVBS*, 2xS-Video*, 2x3G-SDI*, 1xRGB (SXVGA)*, 2xDVI-D	4xSDI (UHD), 3xHDMI (UHD/FHD), 1xRGB (SXVGA)*
Electronic Zoom	1x ... 2,5x	1x ... 2,5x
Standard	Protection class: I; Applied part: BF; classification acc. to MDD 93/42/EEC: I	
Shutter speed, 1/s	1/50 ... 1/50 000	1/50 ... 1/50 000
Mains voltage, V	230	230
Dimensions, mm/Weight, kg	320x85x328 / 4,5	320x85x328 / 5,2

ORDERING DATA:

- 01.2002.300** ECONT-2002.3 3CMOS Full HD Endoscopic video camera
- 01.2002.310** ECONT-2002.3 3CMOS Full HD Endoscopic video camera (with recording option)
- 01.2002.400** ECONT-2002.4 3CMOS Ultra HD Endoscopic video camera
- 01.2002.410** ECONT-2002.4 3CMOS Ultra HD Endoscopic video camera (with recording option)

ENDOSCOPIC VIDEO CAMERAS

ECONT-2002.5

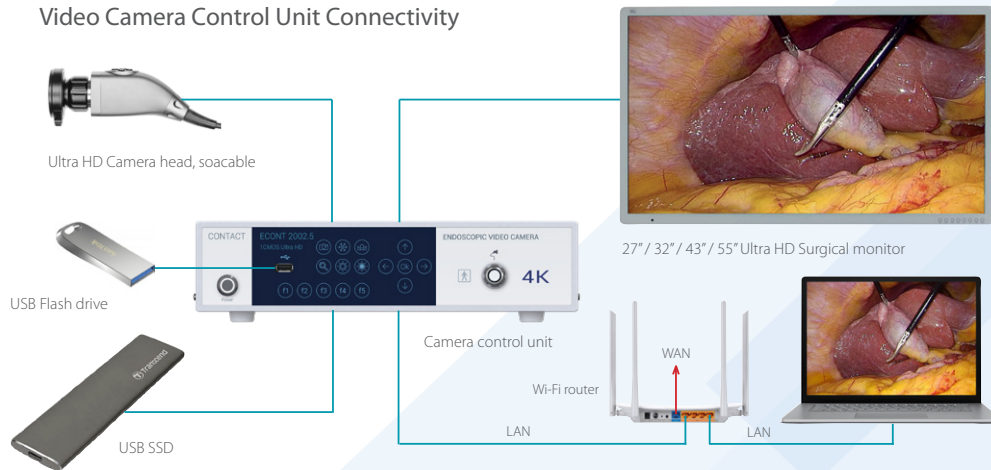


ECONT-2002.5 1CMOS UHD (4K) Endoscopic Video Camera

FEATURES:

- 1 x 1/1,8" 16:9 SONY CMOS image sensor
- Ultra-high resolution 3840x2160 pixel, progressive scan at 60 Hz
- up to 1900 TV lines of horizontal resolution
- 10 presets for different disciplines (Laparoscopy, Gynecology, Arthroscopy, Thoracoscopy, ENT etc.)
- 5 user-programmed buttons f1...f5 on the front panel
- 4 user-programmed buttons on the camera head
- multilanguage OSD menu (English, French, German, Russian)
- SDI, DVI (Full HD) and HDMI 2.0 (4K) outputs
- on-device Ultra HD or Full HD video recording on USB media
- live video broadcast via Ethernet

Video Camera Control Unit Connectivity



SPECIFICATIONS

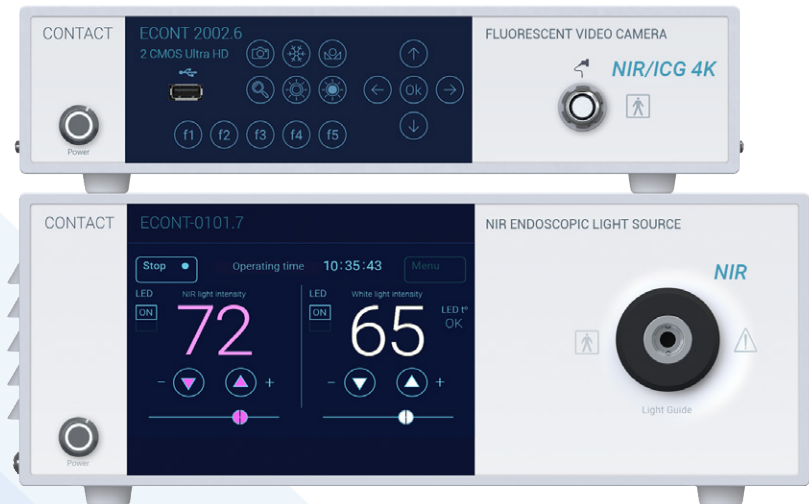
Image resolution, pix.	3840(H) x 2160(V)
Frame rate, fps	60, progressive scan
Image sensor	1 x 1/1,8" 16:9 CMOS
Horizontal resolution, TV lines	>1900 (in center)
Signal to noise ratio, dB	>56
Minimal illumination, lx	<1.0 (F1.4 6500K 30IRE 80%)
Shutter speed, 1/s	<1/60 ... 1/15 360
Video outputs	1xHDMI 2.0 (UHD) 1xSDI (FHD), 1xDVI (FHD)
Electronic Zoom	1x ... 10x
Recorded video coding	H.265
Mains voltage, V	230

ECONT-2002.5

ORDERING DATA:

01.2002.500 ECONT-2002.5 1CMOS UHD Endoscopic video camera with DVR

4K NIR/ICG VIDEO SYSTEM FOR FLUORESCENCE VISUALIZATION



Using the fluorescent dye indocyanine green (ICG) and light of the near-infrared range (NIR), the ECONT NIR/ICG video system provides the ability to obtain bright and informative images of the biliary tract, vascular and lymphatic systems in Ultra HD (4K) resolution.

FEATURES

- 4K image resolution with a high detailization and light sensitivity
- wide colour gamut according to BT.2020
- dual LED light source for visible and infrared lights
- display modes: white light, monochrome fluorescent, overlay and multi-window mode
- digital smoke filtering in the image
- digital noise reduction
- digital enhancement of vessels and capillaries visibility
- 1...30x digital Zoom
- 10 presets for different applications (Laparoscopy, Gynaecology, Urology, Arthroscopy, ENT, etc.)
- 4 control buttons on the camera head
- multilingual OSD menu
- the ability to record video and photos in Ultra HD or Full HD quality on USB media
- possibility to broadcast the video to the local network
- control of menu items using a wireless remote control

Applications

Thoracic surgery

- Visualisation of lung segments - pulmonary lobectomy
- Esophageal anastomosis - assessment of vascular perfusion of the gastroesophageal stoma
- Lung cancer stage determination - mediastinal lymph node tracing

Gastrointestinal surgery

- Lymph node tracing of the stomach and colon
- Assessment of gastrointestinal anastomosis perfusion

Urology surgery

- Detection of a kidney tumour and its boundaries
- Detection of adrenal tumours
- Lymph node tracing in prostate and bladder cancer

Hepatobiliary surgery

- Visualization of liver segments - anatomical liver segmentectomy
- Visualization of biliary tract - comprehensive imaging of biliary tract and wound repair after hepatectomy
- Tumor Identification - Accurate display of tumor location, margin and microsatellite
- Liver transplantation - assessment of anastomosis of vessels and bile ducts after transplantation

Gynaecology surgery

- Tracing of sentinel lymph nodes in cervical and endometrial cancer
- Holographic examination of lymph nodes in cervical and endometrial cancer
- Sentinel lymph nodes tracing of vulvar cancer

Video System Configuration



SPECIFICATIONS

Image resolution, pix.	3840(H) x 2160(V) @ 60Hz
Video sensors	2 x 1/1,8" 16:9 CMOS
Horizontal resolution, TV lines	>1700
Signal-to-noise ratio, dB	>50
Minimum illumination, lux	<1,0 F1.2
Video outputs	3xHDMI 2.0 (UHD/FHD), 1x12G-SDI (UHD)
Electronic Zoom	1x ... 30x
Shutter speed, 1/s	1/50 ... 1/15 360
Recorded video coding	H.265
Mains voltage, V	230

ORDERING DATA

01.2002.600 ECONT-2002.6 NIR/ICG 4K Video camera

01.0101.700 ECONT-0101.7 NIR Endoscopic light source

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