

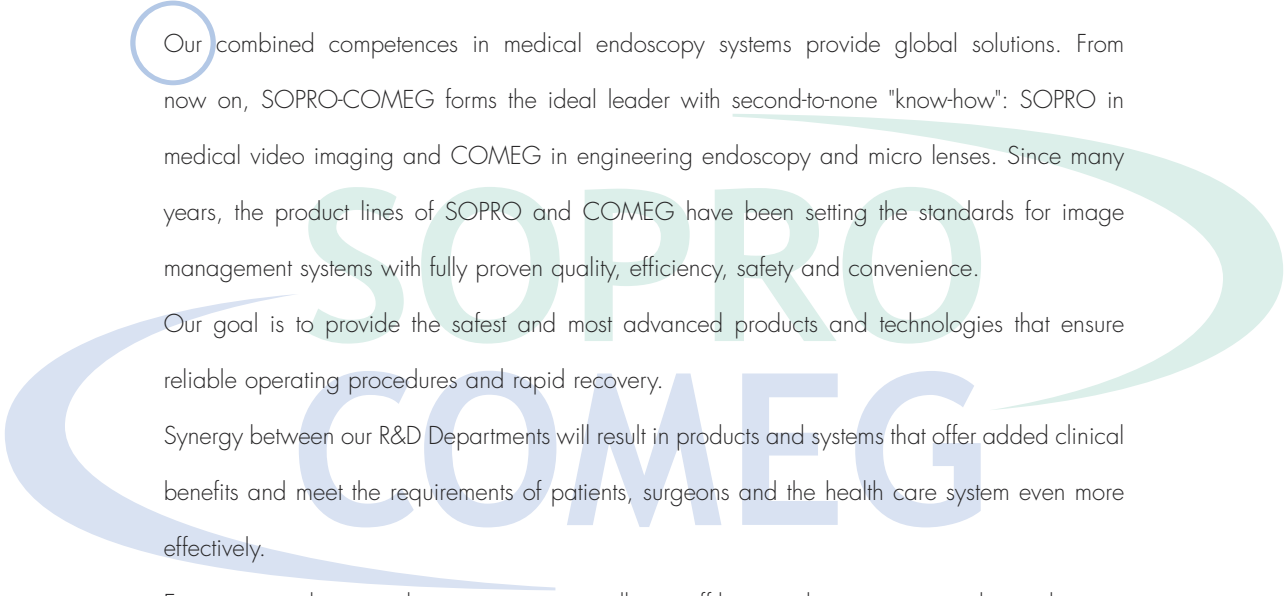


OUR TECHNOLOGY YOUR SKILL



**CAPITAL
EQUIPMENT
2011**





Our combined competences in medical endoscopy systems provide global solutions. From now on, SOPRO-COMEG forms the ideal leader with second-to-none "know-how": SOPRO in medical video imaging and COMEG in engineering endoscopy and micro lenses. Since many years, the product lines of SOPRO and COMEG have been setting the standards for image management systems with fully proven quality, efficiency, safety and convenience.

Our goal is to provide the safest and most advanced products and technologies that ensure reliable operating procedures and rapid recovery.

Synergy between our R&D Departments will result in products and systems that offer added clinical benefits and meet the requirements of patients, surgeons and the health care system even more effectively.

Engineers, mechanics, sales representatives... all our staff has one thing in common: their enthusiasm for hard work to serve our customers.

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Company

Video cameras

Light sources

Insufflators

**Fluid
management**

Shaver

LCD displays

**Archiving
systems**

Printer

Medical carts

French manufacturing plant

La Ciotat - FRANCE

Surface : 3 200 m²



German manufacturing plant

Tuttlingen - GERMANY

Surface : 2 600 m²



1 • COMPANY

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Company history


1977

SOPRO was founded.

1986

Introduction of microcameras for endoscopy.

2001

SOPRO joins the Acteon Group.

2003

Sopro moves into a bigger, brand new building in La Ciotat.

2004

Acquisition of Geyser and development of a range of insufflators and pumps.


1975

COMEG was founded.

1977

Introduction of medical endoscopes.

1993

Introduction of autoclavable endoscopes.

1994

Introduction of the urology product line.

2001

New optical generation of medical endoscopes.


2006

COMEG joins SOPRO

2007The plant's surface extends to 3200 m² in La Ciotat
Introduction of a Spine surgery product line**2009**Introduction of the Digilap Titanium, autoclavable videolaparoscope
Introduction of the SOPRO 397 3CCD Full HD camera
Introduction of UBICAM, USB consulting room camera and medical software
Introduction of a range of bipolar forceps & scissors**2010**Introduction of the Full HD laparoscope
Introduction of HEOS, the hysteroscopic endo operative system
Introduction of UBILED, a new LED light source
Introduction of UBIPACK, the complete solution for gynecology and ENT

Products range at a glance



SOPRO-COMEG offers a complete range ranking from capital equipment to re-usable, high quality, durable instruments. Whatever your application is: Urology, Laparoscopy, Arthroscopy, Gynecology, Spine, ENT, SOPRO-COMEG will offer you the best solution and fulfil your needs.

Capital equipment

SOPRO-COMEG meets the needs of the surgeons and distributors by supplying the complete OR trolley. Our range includes video cameras ranking from 1 CCD to 3CCD Full HD, halogen, xenon and LED light sources, insufflators, pump, shaver, medical grade monitor and archiving systems. These products already met a large worldwide success with the unmatched image quality they offer.

Laparoscopy

SOPRO-COMEG proposes a complete range of instruments for entry into the peritoneum, the first and most crucial step in successful laparoscopic surgery. A complete range of hand instruments in both monopolar and bipolar electrocautery versions is also available. The full HD 10mm laparoscope will provide you the quality you need for High Definition picture.



Urology



SOPRO-COMEG, a company with over 25 years experience in the urology field, offers endoscopes with exceptional optical quality and a complement of instruments which will ease even the most demanding urological procedures including: cystoscopy, resectoscopy and urethrotomy. These products are an integral part of recent technological advancements which improve the diagnosis-treatment process and the level of care that urologists can now offer to their patients.

Gynecology

Gynecology, hysteroscopy, resectoscopy and other procedures are made easier with the SOPRO-COMEG products. Clarity and efficiency are the key words of our gynecology range.



Arthroscopy



Sharp images, precision in visualization are possible through the use of our range for arthroscopy from 4.0mm telescopes to the small-joint arthroscopic lines.

Spine

Our spinal endoscopy system allows to treat disc-diseases. All types of hernias can be removed in a minimal invasive interlaminar approach, by means of the endoscopic technique. The technique also qualifies for the effective treatment of chronic back-ailments caused by disc-prolaps or tears. Furthermore, endoscopic treatment of spinal stenosis has increased.



ENT



Our field of activities also includes all areas of the ENT disciplines, whether it is diagnostics or therapy, practice or clinic. We propose rigid endoscopes and accessories necessary for sinuscopy, otoscopy and laryngoscopy. All our instruments are manufactured with the highest quality materials.

Regulatory

Our business practices and processes are designed to achieve quality results that exceed the expectations of patients, customers, surgeons. We are dedicated to the delivery of quality healthcare products around the world.

From the start of development of a new device through manufacturing to the final quality control check before delivery, Quality is built in to all our products, as is our commitment and dedication to our customers throughout the world.

Both plants are certified to the highest international quality standard, ISO 13485 for Design, Manufacturing and Sales. Our products comply with the various regulations established across the world, specifically those required by the Food and Drugs Administration and the European Union.

SOPRO-COMEG manufactures equipments and endoscopes in accordance with the following directives or standards:

- Medical device directive 93/42 EEC (M5 2007/47 EEC)
- DIN EN ISO 13485 : 2003 AC:2007 certified : Quality management system
- EN ISO 13485: 2003 AC:2007 certified Quality management system
- EN ISO 13485: 2003 AC:2007 certified Quality management system (issued according to CMDCAS program requirements)
- Series of standards IEC 60601
- Series of standards ISO 8600
- FDA regulations* (FDA Quality system Regulation 21 CFR Part 820).
- EC Attestations issued for all our class II devices (insufflators, irrigation pump, insufflation tubing sets, irrigation tubing sets).

Products certifications:

Following products have the c CSA us mark:

- Camera SOPRO 167 (DV)
- Camera SOPRO 168
- Camera SOPRO 367
- Camera SOPRO 368 HD
- Camera SOPRO 162
- Camera SOPRO 184 (SDI)
- Insufflators range SOPRO 640 (20l, 30l and 45l)
- Irrigation pump SOPRO 670

**the newest ones may be 510(k) pending.*



Research & Development

Innovation being the key to improve health, Sopro-Comeg invests a significant part of its revenue in R&D and patents filing. Our key know-how is Medical imaging with a combination of young & experimented engineers focused on Electronics, Software, Optics and Mechanics.

Also, we in SOPRO-COMEG, have access to the very wide R&D department and connections of our mother company, Acteon group, adding to the previous know how : ultrasounds, chemical, motors, X-Ray and Cone Beam Computer Tomography systems (CBCT).

This very rare combination of know how allows us to join the extremely limited group of the companies mastering the design & the manufacturing of the complete endoscopy solution.

Service & Assistance

In both our main plants (La Ciotat and Tuttlingen), our on-site specialists are dedicated to servicing and providing expertises to your Sopro-Comeg products:

- Express repair of all our products under warranty
- Free quotation for all repairs out of warranty
- Qualified repair with original spare parts
- Streamline endoscope exchange program (see Urology catalog)
- Technical training

• SOPRO-COMEG

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• SOPRO-COMEG GmbH

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SOPRO 397 - 3CCD Full HD

FULL HD
1080 p

SPECIFICATIONS OF THE CAMERA HEAD

- Ultra small camera head with its micro prism technology
- Sensor: 3 CCD 1/3" (16/9 "wide - screen format acquisition")
- Progressive Scan Technology
- 1080p resolution HDTV format: Resolution: 1920*1080 pixels
- 14 bits processing
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- 3 Programmable buttons
- Definition: 1080 lines
- Sensitivity: 1,5 lux
- Signal / Noise ratio : 70dB
- Cable length: 3 meters
- C-Mount
- Size of the sensor: 37*50*95 mm
- Weight of the sensor: 250 g
- Waterproof
- Disinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- Digital zoom Up to 2.5x
- Freeze, Mirror and Gain functions
- Menu by Application
- Electronic anti-moire filter for flexible fiberscope
- Digital processing 3 x 19 bits
- Automatic white balance
- 5 languages (English, French, German, Spanish, Italian)
- Color bar generator
- Modification of the red and the blue gain
- Color Matrix 12 axes
- Automatic saving of the adjusted parameters
- Automatic electronic shutter (1/50 to 1/100 000)
- Adjustable shutter area
- On screen displayed adjustments
- Text generator with keyboard connexion
- Gamma adjustment
- Automatic and manual adjustment of light intensity
- Automatic adjustment of sensitivity to low light (auto exposure control)
- Automatic black level adjustment
- Details adjustment
- Digital Noise Reduction: OFF / LOW / HIGH
- Two peripheral triggerings
- Reset to manufacturer settings
- Automatic compensation function for blemish pixels
- Size of the control unit: W: 300mm; D: 311mm; H: 125 mm
- Weight of the control unit: 2500 g
- 1 DVI-D output
- 2 HD-SDI outputs: 0.8 V [P-P] / 75 ohms SMPTE292M
- 1 RGB output: 3x0.7 V [P-P] & 0.3V [P-P] / 75 ohms
- 1 Y/C output: Y: 1.0 V [P-P] / 75 ohms, C: 0.286 V [P-P] (NTSC), C:300 Vp-p V [P-P] (PAL) / 75 ohms Sync Negative,
- 1 VBS output: 1.0 V [P-P] / 75 ohms Sync Negative
- Power supply: (110-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 45 VA
- 2 T 2.5A - 250 V fuses (Only fuses marked UR)
- Continuous Service

Art.N°	Description
S_397_9000	Digital FULL HD 16/9 3CCD CCU, HDTV, PAL compatible
S_397_9001	Digital FULL HD 16/9 3CCD CCU, HDTV, NTSC compatible
S_397_8000	Digital FULL HD 16/9 3CCD camera head, HDTV, C-mount
S_097_0001	24mm HD coupler, C-mount, scope holder
S_097_0002	24mm HD coupler, with high torque
S_413024	16-34mm HD Zoom coupler
S_700206	Medical keyboard, soakable, QWERTY, PS2

* See user manual for more information



SOPRO 368 - 3CCD HD camera

HD

SPECIFICATIONS OF THE CAMERA HEAD

- Ultra small camera head with its micro prism technology
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz)NTSC
- Sensor: 3 CCD 1/4" (4/3" format acquisition)
- C-Mount
- Resolution: 3 x (752 x 582) PAL ; 3 x (768 x 494) NTSC
- Definition: 1024 lines
- Sensitivity: 3 lux
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- Programmable buttons
- Signal / Noise ratio: 60 dB
- Programmable buttons
- Size of the sensor: L = 80mm; Ø = 32 mm
- Weight of the sensor: 250 g
- Cable length: 3,60 meters
- Waterproof
- Disinfection by cold immersion in Steris/Sterrad plasma*

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- On screen displayed adjustments
- Adjustable shutter area
- Automatic mechanical shutter (1/50 to 1/100 000)
- Backlight function for arthroscopy
- Electronic anti-moire filter for flexible fiberscope
- Video enhancement
- Modification of the red and the blue gain
- Gamma adjustment
- 5 languages (English, French, German, Spanish, Italian)
- Menu per application
- Color bar generator
- Automatic white balance
- Automatic saving of the adjusted parameters
- 2 remote control outputs (Jack 2.5 and 3.5mm)
- 2 peripheral triggerings
- Reset to manufacturer settings
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 2500 g
- 1 DVI-D high resolution SXGA output (1280*1024 pixels)
- 1 RGB-S video output (3x0,7Vcc/& 0,3Vcc/75Ω)
- 1 Y/C video outputs (1 Vcc & 0,3 Vcc / 75Ω Sync Negative)
- 1 composite video outputs (1 Vcc / 75Ω)
- Power supply: (110-230 VAC ~ ; 50 - 60Hz)
- Power consumption : 45VA
- Two T 800 mA - 250 V fuses (Only fuses marked UR)
- Continuous Service

Regulatory

- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_368_9000	Digital HD 3CCD control unit, PAL, DVI output
S_368_9001	Digital HD 3CCD control unit, NTSC, DVI output
S_367_8000	Digital HD 3CCD camera head, C-mount, PAL
S_367_8001	Digital HD 3CCD camera head, C-mount, NTSC
S_367_0002	18mm HD coupler, C-mount, scope holder
S_367_0003	18mm HD coupler with high torque focus ring
S_701004	18mm beamsplitter 90°, C-mount, rotatable head, without eyepiece
S_413024	16-34mm HD zoom adapter, C-mount, scope holder

* See user manual for more information



SOPRO 367 - 3CCD camera

SPECIFICATIONS OF THE CAMERA HEAD

- Ultra small camera head with its micro prism technology
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz)NTSC
- Sensor: 3 CCD 1/4"
- C-Mount
- Resolution: 3 x (752 x 582) PAL ; 3 x (768 x 494) NTSC
- Definition: 750 lines
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- Programmable buttons
- Sensitivity: 3 lux
- Signal / Noise ratio : 60 dB
- Silicone medical grade cable, no shape memory, easy to roll up, high resistance
- Size of the sensor: L = 80mm; Ø = 32 mm
- Weight of the sensor: 250 g
- Cable length: 3,60 meters
- Waterproof
- Desinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety : Class 1, BF type
- Comply with the European standard 93/42/EEC- Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- On screen displayed adjustments
- Adjustable shutter area
- Automatic electronic shutter (1/50 to 1/100 000)
- Backlight function for arthroscopy
- Electronic anti-moire filter for flexible fiberscope
- Video enhancement
- Modification of the red and the blue gain
- Gamma adjustment
- 5 languages (English, French, German, Spanish, Italian)
- Menu per application
- Color bar generator
- Automatic white balance
- Automatic saving of the adjusted parameters
- 2 peripheral triggerings
- 2 remote control outputs (Jack 2.5 and 3.5mm)
- Reset to manufacturer settings
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 2500 g
- 1 RGB-S video output (3x0,7Vcc/& 0,3Vcc/75Ω)
- 1 Y/C video outputs (1 Vcc & 0,3 Vcc / 75Ω Sync Negative)
- 1 composite video outputs (1 Vcc / 75Ω)
- Power supply: (115-230 VAC ~ ; 50 - 60Hz)
- Power consumption : 45VA
- Two T 800 mA - 250 V fuses (Only fuses marked UR)
- Continuous Service

Art.N°	Description
S_367_9002	Digital 3CCD control unit, PAL, DV output
S_367_9003	Digital 3CCD control unit, NTSC, DV output
S_367_9000	Digital 3CCD control unit, PAL,
S_367_9001	Digital 3CCD control unit, NTSC
S_367_8000	Digital HD 3CCD camera head, C-mount, PAL
S_367_8001	Digital HD 3CCD camera head, C-mount, NTSC
S_367_0002	18 mm HD coupler, C-mount, scope holder
S_367_003	18 mm HD coupler with high torque
S_413024	16-34mm HD Zoom adapter, C-mount, scope holder
S_701004	18mm beamsplitter 90°, C-mount, rotatable head, without eyepiece

* See user manual for more information



SOPRO 169 - 1CCD Digilap Titanium and Multis

DIGILAP
Titanium

SPECIFICATIONS OF THE MULTI-SENSORS CONTROL UNIT

- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Electronic anti-moire filter for flexible fiberscope
- Automatic saving of the adjusted parameters
- Video enhancement
- Modification of the red and blue gain
- Reset to manufacturer settings
- Two peripheral triggerings
- Gamma adjustment
- 5 languages (English, French, German, Spanish, Italian)
- Menu per application
- Color bar generator
- Automatic white balance
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 2500 g
- 2 Y/C video outputs (1 Vcc & 0,3 Vcc / 75Ω Sync Negative)
- 2 composite video outputs (1 Vcc / 75Ω)
- 2 SDI, 1 RGB & 1 DV IEEE1394 video outputs (in option)
- Power supply: (110-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 25VA, with DV option: 35 VA
- 2 T 800 mA - 250 V fuses (Use only fuses marked UL/CSA)
- Continuous Service

SPECIFICATIONS OF DIGILAP TITANIUM

- Resolution: 752 x 582 PAL ; 768 x 494 NTSC
- Definition: >500 lines
- Sensitivity: 1.5 lux
- Signal / Noise ratio: 52 dB (Gain 0dB)
- 2 programmable buttons
- Sensor: 1 CCD 1/4"
- 30° system : 360° image rotation
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz) NTSC
- Disconnectable light cable
- Quick video cable exchange
- Size of the sensor: Useful length = 300mm
Total length = 435mm
- Weight of the sensor = 390 g
- Length of the cable: 3,20 meters
- Autoclavable 134°
- Waterproof
- Desinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety : class 1, BF type
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Transport and storage Temperature range: -20°C / +40°C
- Relative Humidity range: 10 to 90 %
- Operating, Transport and Storage Atmospheric pressure range: 900hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anesthetic with air or oxygen or nitrous oxide

Art.N°	Description
S_169_0104	MULTIS CCU with DV & RGB outputs, PAL
S_169_0108	MULTIS CCU with DV & RGB outputs , NTSC
S_169_0100	MULTIS CCU with 2 SDI outputs, PAL
S_169_0101	MULTIS CCU with 2 SDI outputs, NTSC
S_169_0102	MULTIS CCU, PAL
S_169_0103	MULTIS CCU, NTSC
S_169_6002	DIGILAP TITANIUM 10mm 30° Autoclavable, PAL, with sterilisation basket
S_169_6003	DIGILAP TITANIUM 10mm 30° Autoclavable, NTSC, with sterilisation basket
S_169_6000	DIGILAP TITANIUM 10mm 0° Autoclavable, PAL, with sterilisation basket
S_169_6001	DIGILAP TITANIUM 10mm 0° Autoclavable, NTSC, with sterilisation basket

* See user manual for more information



SOPRO 169 - 1CCD autoclavable sensor and Multis

SPECIFICATIONS OF THE AUTOCLAVABLE SENSOR

- Resolution: 752 x 582 PAL ; 768 x 494 NTSC
- Definition: >500 lines
- Sensitivity: 1.5 lux
- Signal / Noise ratio: 52 dB (Gain 0dB)
- 2 programmable buttons
- Sensor: 1 CCD 1/3"
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz) NTSC
- C-Mount
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- 22.5mm integrated objective with antireflecting eyepiece
- Magnetic focus ring
- Quick video cable exchange
- Size of the sensor: L = 115mm; Ø = 32 mm
- Weight of the sensor: 190 g
- Length of the cable: 3,60 meters
- Autoclavable 134°
- Waterproof
- Disinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety : class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Transport and storage Temperature range: -20°C / +40°C
- Relative Humidity range: 10 to 90 %
- Operating, Transport and Storage Atmospheric pressure range: 900hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anesthetic with air or oxygen or nitrous oxide

SPECIFICATIONS OF THE MULTI-SENSORS CONTROL UNIT

- On screen displayed adjustments
- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Automatic saving of the adjusted parameters
- Electronic anti-moire filter for flexible fiberscope
- Video enhancement
- Modification of the red and blue gain
- Reset to manufacturer settings
- Two peripheral triggerings
- Gamma adjustment
- 5 languages (English, French, German, Spanish, Italian)
- Menu per application
- Color bar generator
- Automatic white balance
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 2500 g
- 2 Y/C video outputs (1 Vcc & 0,3 Vcc / 75Ω Sync Negative)
- 2 composite video outputs (1 Vcc / 75Ω)
- 2 SDI, 1 RGB & 1 DV IEEE1394 video outputs (in option)
- Power supply: (110-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 25VA, with DV option: 35 VA
- 2 T 800 mA - 250 V fuses (Use only fuses marked UL/CSA)
- Continuous Service

Art.N°	Description
S_169_0104	MULTIS CCU with DV & RGB outputs, PAL
S_169_0108	MULTIS CCU with DV & RGB outputs , NTSC
S_169_0100	MULTIS CCU with 2 SDI outputs, PAL
S_169_0101	MULTIS CCU with 2 SDI outputs, NTSC
S_169_0102	MULTIS CCU, PAL
S_169_0103	MULTIS CCU, NTSC
S_169_4000	Digital 1CCD Autoclavable camera head, PAL with integrated 22mm coupler
S_169_4001	Digital 1CCD Autoclavable camera head, NTSC with integrated 22mm coupler

* See user manual for more information



SOPRO 169 - 1CCD sensor and Multis

SPECIFICATIONS OF THE SENSOR

- Resolution: 752 x 582 PAL ; 768 x 494 NTSC
- Definition: >500 lines
- Sensitivity: 1.5 lux
- Signal / Noise ratio: 52 dB (Gain 0dB)
- 2 programmable buttons
- Sensor : 1 CCD 1/3"
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz) NTSC
- C Mount
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- Size of the sensor: L = 60mm; Ø = 32 mm
- Weight of the sensor: 200g
- Length of the cable: 3,60 meters
- Waterproof
- Disinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety: Class 1, BF Type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Transport and storage Temperature range: -20°C / +40°C
- Relative Humidity range: 10 to 90 %
- Operating, Transport and Storage Atmospheric pressure range: 900hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anesthetic with air or oxygen or nitrous oxide

SPECIFICATIONS OF THE MULTI-SENSORS CONTROL UNIT

- On screen displayed adjustments
- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Automatic saving of the adjusted parameters
- Electronic anti-moire filter for flexible fiberscope
- Video enhancement
- Modification of the red and blue gain
- Reset to manufacturer settings
- Two peripheral triggerings
- Gamma adjustment
- 5 languages (English, French, German, Spanish, Italian)
- Menu per application
- Color bar generator
- Automatic white balance
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 2500 g
- 2 Y/C video outputs (1 Vcc & 0,3 Vcc / 75Ω Sync Negative)
- 2 composite video outputs (1 Vcc / 75Ω)
- 2 SDI, 1 RGB & 1 DV IEEE1394 video outputs (in option)
- Power supply: (110-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 25VA, with DV option: 35 VA
- 2 T 800 mA - 250 V fuses (Use only fuses marked UL/CSA)
- Continuous Service

Art.N°	Description
S_169_0104	MULTIS CCU with DV & RGB outputs, PAL
S_169_0108	MULTIS CCU with DV & RGB outputs , NTSC
S_169_0100	MULTIS CCU with 2 SDI outputs, PAL
S_169_0101	MULTIS CCU with 2 SDI outputs, NTSC
S_169_0102	MULTIS CCU, PAL
S_169_0103	MULTIS CCU, NTSC
S_169_2000	Digital 1CCD camera head, C-mount, PAL
S_169_2001	Digital 1CCD camera head, C-mount, NTSC
S-067_0004	22mm coupler
S_067_0002	22mm coupler with high torque
S_701004	18mm beamsplitter 90°, C-mount, rotatable head, without eyepiece

* See user manual for more information



SOPRO 184 - 1CCD Pendular

SPECIFICATIONS OF THE PENDULAR CAMERA HEAD

- Sensor: 1 CCD 1/4"
- Resolution : 752x582 PAL ; 768 x 494 NTSC
- 360° quick-lock system
- Definition: >500 lines
- Sensitivity: 1 lux
- Signal / Noise ratio : 52 dB (gain 0dB)
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz)NTSC
- Free scope rotation and locking system
- 2 programmable buttons
- Integrated objective: F12.3 and F17mm
- Size of the sensor: L = 80mm; Ø = 32 mm
- Weight of the sensor: 110 g
- Cable length: 3 meters
- Waterproof
- Desinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -20°C / +40°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- Automatic video settings detection
- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Video enhancement
- Electronic anti-moire filter for flexible fiberscope
- Modification of the red and the blue gain
- Intuitive menu with navigation knob
- OLED screen for exceptionnal contrast
- Menu by application and user's profiles
- Reset manufacturer settings
- Gamma adjustment
- 5 languages (French, Italian, Spanish, English, German)
- Color bar generator
- Automatic white balance
- Automatic saving of the adjusted parameters
- 1 peripheral triggering: delivered with SIM for the USB2
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 1500 g
- 1 RGBS video output (3x0,7Vcc/& 0,3Vcc/75Ω Sync Negative)
- 1 Y/C video output (1 Vcc & 0,3 Vcc / 75 Ω Sync Negative)
- 1 composite video output (1 Vcc / 75 Ω)
- Two digital SDI outputs (option)
- 1 USB2 output
- Power supply: (100-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 25VA
- Two T 800 mA - 250 V fuses (Only fuses marked UL)
- Continuous Service

Art.N°	Description
S_184_8000	Digital 1CCD Pendular camera head, PAL, integrated 12,3mm objective
S_184_8001	Digital 1CCD Pendular camera head, NTSC, integrated 12,3mm objective
S_184_9000	Digital 1CCD CCU, PAL, 2 SDI outputs
S_184_9001	Digital 1CCD CCU, NTSC, 2 SDI outputs
S_184_9002	Digital 1CCD CCU, PAL
S_184_9003	Digital 1CCD CCU, NTSC
S_081_0010	USB Dongle to activate SIM with unlimited patients management

* See user manual for more information



SOPRO 184 - 1CCD

SPECIFICATIONS OF THE SENSOR

- Sensor: CCD 1/4" high sensitivity
- Radel camera head
- Resolution: (752 x 582) PAL ; (768 x 494) NTSC
- Definition: 500 lines
- Sensitivity: 2 lux
- Signal/Noise Ratio: 52 dB
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz) NTSC
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- C-Mount
- 2 programmable buttons
- Size of the sensor: L = 87mm; Ø = 30 mm
- Weight of the sensor: 210 g
- Cable length: 3 meters
- Waterproof
- Disinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -20°C / +40°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- Automatic video settings detection
- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Video enhancement
- Electronic anti-moire filter for flexible fiberscope
- Modification of the red and the blue gain
- Intuitive menu with navigation knob
- OLED screen for exceptional contrast
- Menu by application and user's profiles
- Reset manufacturer settings
- Gamma adjustment
- 5 languages (French, Italian, Spanish, English, German)
- Color bar generator
- Automatic white balance
- Automatic saving of the adjusted parameters
- 1 peripheral triggering: delivered with SIM for the USB2
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 1500 g
- 1 RGBS video output (3x0,7Vcc/& 0,3Vcc/75Ω Sync Negative)
- 1 Y/C video output (1 Vcc & 0,3 Vcc / 75 Ω Sync Negative)
- 1 composite video output (1 Vcc / 75 Ω)
- Two digital SDI outputs (option)
- 1 USB2 output
- Power supply: (100-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 25VA
- Two T 800 mA - 250 V fuses (Only fuses marked UI)
- Continuous Service

Art.N°	Description
S_184_9000	Digital 1CCD CCU, PAL, 2 SDI outputs
S_184_9001	Digital 1CCD CCU, NTSC, 2 SDI outputs
S_184_9002	Digital 1CCD CCU, PAL
S_184_9003	Digital 1CCD CCU, NTSC
S_184_8100	Digital 1CCD camera head, 1/4"CCD, PAL, C-mount
S_184_8101	Digital 1CCD camera head, 1/4"CCD, NTSC, C-mount
S_081_0001	17mm coupler for 1ccd, C-mount, scope holder
S_081_0002	12mm coupler for 1ccd, C-mount, scope holder
S_081_0010	USB Dongle to activate SIM with unlimited patients management

* See user manual for more information



SOPRO 162 - 1CCD

SPECIFICATIONS OF THE SENSOR

- Sensor: CCD 1/3" high sensitivity
- Resolution: (752 x 582) PAL ; (768 x 494) NTSC
- Definition: 470 lines
- Sensitivity: 2 lux
- Signal/Noise Ratio: 52 dB
- Scanning (624 lines/50Hz)PAL, (525 lines/60Hz) NTSC
- Ergonomic focus ring
- M type endoscope adapter
- Free scope rotation and locking system
- C-Mount
- Size of the sensor: L = 42mm; Ø = 28 mm
- Weight of the sensor: 37 g
- Cable length: 3, 25 meters
- Waterproof
- Desinfection by cold immersion in Steris/Sterrad plasma*

Regulatory

- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating temperature range: +10°C / +40°C
- Operating relative humidity range: 30 to 75 %
- Transport and storage temperature range: -10°C / +45°C
- Transport and storage relative humidity range: 20% to 85%
- Operating, transport and storage atmospheric pressure range: 700hPa to 1060hPa
- Continuous Service
- Not protected against waterfalls (IPXO)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Automatic white balance
- Video enhancement
- Electronic anti-moire filter for flexible fibrescope
- Modification of the red and blue gain
- 5 languages (French, Italian, Spanish, English, German)
- Automatic detection of the color temperature according to the used light source
- Bright and blue LCD display
- Automatic saving of the adjusted parameters
- Foot pedal in option for picture freezing on USB2
- Size of the control unit: W: 205mm; D: 210mm; H: 55 mm
- Weight of the control unit: 900 g
- 1 Y/C video output (1 Vcc & 0, 3 Vcc / 75 Ω Sync Negative)
- 1 composite video output (1 Vcc / 75 Ω)
- 1 USB2 output (option)
- Delivered with SOPRO IMAGING MEDICAL Software
- Power supply: (100-230 VAC ~ ; 50 - 60Hz)
- Power consumption: 25VA
- Two T 800 mA - 250 V fuses (Only fuses marked UL)
- Continuous Service

Art.N°	Description
S_162_8000	1 CCD digital camera head, PAL, C-mount
S_162_8001	1 CCD digital camera head, NTSC, C-mount
S_162_9000	1 CCD digital camera, PAL, USB2 output, CD-ROM with limited SIM**
S_162_9002	1 CCD digital camera, NTSC, USB2 output, CD-ROM with limited SIM
S_162_9001	1 CCD digital camera, PAL
S_162_9003	1 CCD digital camera, NTSC
S_067_0002	22mm coupler with high torque
S_067_0004	22mm coupler, C-mount, scope holder
S_009002	Foot remote control only for USB2 output
S_081_0010	USB dongle to activate SIM with unlimited patients management

* See user manual for more information

** Sopro Imaging Medical



SOPRO 181 USB2 1CCD Camera

UBICAM_®
digital diagnosis

RECOMMENDED COMPUTER CONFIGURATION

- Operating system: Windows 7
- Processor: Intel Core2
- RAM: 2 Gb
- Hard disk: 1 Tb
- USB ports: 4 USB 2.0 Hi-Speed ports
- Graphics Card: with NVIDIA or ATI chipset / 512 MB of unshared video RAM with support for DirectX 9 or higher
- USB chipset: Intel or NEC
- Screen Resolution: 1280 x 1024 or higher

Regulatory

- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

SPECIFICATIONS OF THE USB CAMERA HEAD

- Sensor: CCD 1/4" high sensitivity
- Automatic video setting detection
- Radel camera head
- Resolution: (752 x 582) PAL ; (768 x 494) NTSC
- Definition: 470 lines
- Sensitivity: 2 lux
- Signal/Noise Ratio: 52 dB
- Automatic electronic shutter: (1/50 to 1/100 000)
- Adjustable shutter area
- Automatic white balance
- Video enhancement
- Modification of the video parameters
- Automatic saving of the adjusted parameters
- Electronic anti-moire filter for flexible fiberscope
- 2 programmable buttons allowing: Freeze, record, white balance, anti-moire filter activation
- Immersible USB connector
- Virtual Camera Control Unit:(Automatic White Balance, video parameters, Flexible or rigid applications, Shortcuts)
- Automatic detection of the colour temperature according to the used light source
- Size of the sensor: L = 87mm, Ø = 30 mm
- Weight of the sensor: 210 g
- Cable length: 3 meters
- 1 USB 2.0 output
- Power supply: 5 V DC
- Power consumption: 2.5 VA
- Waterproof
- Cold disinfection
- Continuous Service

Art.N°	Description
S_181_0001	UBICAM, USB2 stand alone solution, PAL, C-mount, CD with SIM limited to 2 patients
S_181_0004	UBICAM, USB2 stand alone solution, NTSC, C-mount, CD with SIM limited to 2 patients
S_081_0001	17mm coupler, C-mount, scope holder
S_081_0002	12mm coupler, C-mount, scope holder
S_081_0010	USB Dongle to activate SIM with unlimited patients management

Sopro Imaging software



sopro
Imaging
Medical

SOPRO IMAGING MEDICAL SOFTWARE

- Patient management
- Image and video captures
- Image annotation and drawings
- Zoom
- Medical reports
- Export your images and videos to DVD, USB, mail, ...

RECOMMENDED COMPUTER CONFIGURATION

- Operating system: Windows 7
- Processor: Intel Core2
- RAM: 2 Gb
- Hard disk: 1 Tb
- USB ports: 4 USB 2.0 Hi-Speed ports
- Graphics Card: with NVIDIA or ATI chipset / 512 MB of unshared video RAM with support for DirectX 9 or higher
- USB chipset: Intel or NEC
- Screen Resolution: 1280 x 1024 or higher

Accessories for video cameras

Art.-No.

S_097_0001

24mm HD coupler

C-mount, M type scope holder with locking capacity, for with S_397 camera head
weight : 60g
waterproof



Art.-No.

S_097_0002

24mm HD coupler

C-mount, M type scope holder with locking capacity, for with S_397 camera head
with High torque focus ring for Arthroscopy
weight : 60g
waterproof

Art.-No.

S_067_0004

22mm coupler for 1CCD

C-mount, M type scope holder with locking capacity, for S_169 & S_162 cameras heads
weight : 44g
waterproof



Art.-No.

S_067_0002

22mm coupler for 1CCD

C-mount, M type scope holder with locking capacity, for S_169 & S_162 cameras heads
with High torque focus ring for Arthroscopy
weight : 44g
waterproof

Art.-No.

S_367_0002

18mm HD coupler

C-mount, M type scope holder with locking capacity, for S_367 & S_368 camera heads
weight : 54g
waterproof



Art.-No.

S_367_0003

18mm HD coupler

C-mount, M type scope holder with locking capacity, for 367 & S_368 camera heads
with High torque focus ring for Arthroscopy
weight : 54g
waterproof

Art.-No.

S_081_0001

17mm coupler for 1CCD

C-mount, M type scope holder with locking capacity, for S_181 & S_184 camera heads
weight: 20g
waterproof



Accessories for video cameras

Art.-No.

S_081_0002

12mm coupler for 1CCD

C-mount, M type scope holder with locking capacity, for S_181 camera head
weight: 20g
waterproof



Art.-No.

S_701004

18mm Beamsplitter 90°

C-mount, 360° rotatable head with locking capacity, without eyepiece, for S_397, S_169 & S_162
waterproof



Art.-No.

S_413024

16-34mm HD Zoom adapter

C-mount, scope holder for all camera heads
waterproof



Art.-No.

S_700159

Sterilisation basket for Digilap Titanium

Art.-No.

S_700160

Spares Silicones X 2 For 700159



Art.-No.

S_700106

Sterilisation basket for 1CCD autoclavable camera head

Art.-No.

S_700107

Spares Silicones X 3 For 700106



Art.-No.

S_700145

USB2 Amplifier 5 meters long for S_181



Accessories for video cameras

Art.-No.

S_700206

Medical Keyboard

soakable, QWERTY, PS2, for S_397 video camera & USB300/200



Art.-No.

S_302027

Storz/Olympus Adapter

for Flexible Scopes



Art.-No.

S_302032

Pentax Adapter

for Flexible Scopes



Art.-No.

S_302030

Fujinon Adapter

for Flexible Scopes



Art.-No.

S_009002

Footswitch for S_162 with USB2 output (jack connector)



Company

Video cameras

Light sources

Insufflators

Fluid management

Shaver

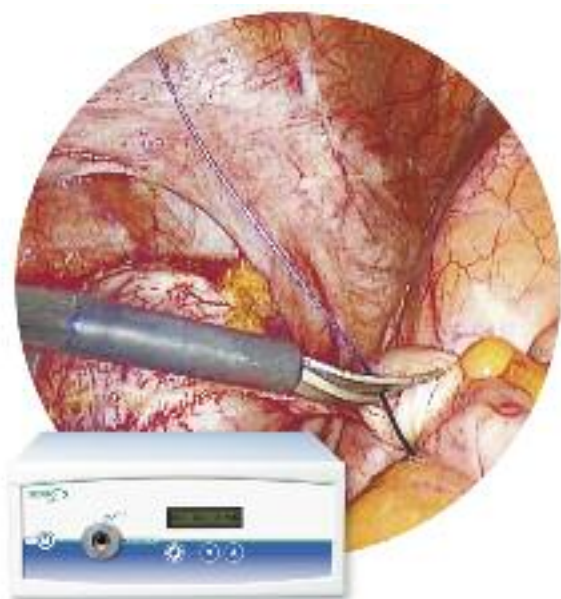
LCD displays

Archiving systems

Printer

Medical carts





3 • **LIGHT SOURCES**

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SOPRO 218 xenon light source	p29
SOPRO 210 xenon light source	p30
SOPRO 281 LED light source	p31
SOPRO 225 twin halogen light source	p32
Light cables	p33
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Light cable accessories	p34



SOPRO 230 - 300 Watts xenon light source

SPECIFICATIONS

- Nominal operating power: 300 Watts
- Colour temperature: 6200°K
- Antiblooming system with light cable detection
- Light intensity adjustment with touch buttons
- Light intensity and lamp age displayed on LCD screen
- Stand-by button (Mechanical iris)
- Easy access to the bulb
- Infrared filter: the light cable can stay in the light source without any risk of over - heating
- Lamp lifetime: 500 hours
- Dimensions: D: 300mm; W: 311mm; H: 125 mm
- Weight: 5 kg
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 485VA
- 2 Fuses T 4A. (UL/CSA only)
- Continuous service

Regulatory

- Electrical protection: Class 1, CF type
- Comply with the European standard 93/42/EEC - Class IIa.
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_230_0002	300 Watts, EU Power Cord - Storz adapter
S_230_0007	300 Watts, EU Power Cord - Olympus adapter
S_230_0005	300 Watts, US Power Cord - Storz adapter
S_230_0009	300 Watts, US Power Cord - Olympus adapter

SOPRO 218 - 180 Watts xenon light source



SPECIFICATIONS

- Nominal operating power: 180 Watts
- Colour temperature: 5800°K
- Antiblooming system with light cable detection
- Light intensity adjustment with touch buttons
- Light intensity and lamp age displayed on LCD screen
- Stand-by button (Mechanical iris)
- Easy access to the bulb
- Infrared filter: the light cable can stay in the light source without any risk of over - heating
- Lamp lifetime: 500 hours
- Dimensions: D: 300mm; W: 311mm; H: 125 mm
- Weight: 5 kg
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 450VA
- 2 Fuses T 4A. (UL/CSA only)
- Continuous service

Regulatory

- Electrical protection: Class 1, CF type
- Comply with the European standard 93/42/EEC - Class IIa.
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: - 10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_218_0007	180 Watts, EU Power Cord - Storz adapter
S_218_0010	180 Watts, EU Power Cord - Olympus adapter
S_218_0006	180 Watts, US Power Cord - Storz adapter
S_218_0011	180 Watts, US Power Cord - Olympus adapter



SOPRO 210 - 100 Watts xenon light source

SPECIFICATIONS

- Nominal operating power: 100 Watts
- Colour temperature: 5800°K
- Antiblooming system with light cable detection
- Light intensity adjustment with touch buttons
- Light intensity and lamp age displayed on LCD screen
- Stand-by button (Mechanical iris)
- Easy access to the bulb
- Infrared filter: the light cable can stay in the light source without any risk of over - heating
- Lamp lifetime: 500 hours
- Dimensions: D: 300mm; W: 311mm; H: 125 mm
- Weight: 5 kg
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 240VA
- 2 Fuses T 4A. (UL/CSA only)
- Continuous service

Regulatory

- Electrical protection: Class 1, CF type
- Comply with the European standard 93/42/EEC - Class IIa.
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_210_0003	100 Watts, EU Power Cord - Storz adapter
S_210_0004	100 Watts, EU Power Cord - Olympus adapter
S_210_0002	100 Watts, US Power Cord - Storz adapter
S_210_0006	100 Watts, US Power Cord - Olympus adapter

SOPRO 281 - LED light source



SPECIFICATIONS

- LED technology with 100 lumens/watt performances
- Nominal power: 30 W (light intensity of a 100W xenon light source)
- LED lifetime: 50.000 hours (in advised conditions of use)
- Color temperature: > to 4500°K
- Light intensity up to 120 000 lux (output of a 2.5m cable)
- Light cable input: Storz only
- Stand-by mode with light intensity memory
- Electronical iris
- Antiblooming system with light cable detection
- Automatic over temperature protection
- Low heat generation
- Manual adjustment of the light intensity
- Dimensions: D: 180mm; W: 95mm; H: 35mm
- Weight: 320g
- Power supply: (100 - 240 VAC ~ / 50 - 60 Hz)
- Power consumption: 30 VA
- Transformer: 12V DC
- Continuous service

Regulatory

- Electrical protection: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°

Description

S_281_0001	LED light source with external transformer
S_700267	Black light cable L:2.5m ; Ø: 4.8mm, autoclavable



SOPRO 225 - 250W twin halogen light source

SPECIFICATIONS

- Double halogen lamps: 250 W x 2
- Colour temperature: 3200°K
- Mechanical iris
- Manual light intensity adjustment
- Lamp lifetime: 50 hours
- Easy access to the bulb
- Easy selection of the lamp by pressing the central button
- Dimensions: D: 300mm; W: 311mm; H: 90mm
- Weight: 3,9kg
- Power Consumption: maximum 270 VA
- Power supply: (115 - 230 VAC ~ / 50 - 60 Hz) (manual switch on the rear panel)
- 2 Fuses T 4A. (Marked UR only)
- Continuous service

Regulatory

- Electrical protection: Class 1, CF type
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_225_0002	EU Power Cord - Storz adapter
S_225_0003	US Power Cord - Storz adapter

Light cables

Ø	L.	Art.-No.
4.8mm	3	S_700067
	2.5	S_700205
	2.3	S_700060
	1.8	S_700218
3.5*	3	S_700216
	2.3	S_700215
	1.8	S_700068
2.5*	3	S_700214
	2.3	S_700213
	1.8	S_700212

*For scope diameter <4mm



- Xenon light source compatible and autoclavable at 134°
- Reinforced sheath
- Universal model delivered without connector

Art.-No.

S_700267

Black LED light cable

Storz/Storz connectors included
L:2.5m ; Ø 4.8mm



Light source accessories

Replacement Bulbs

Art.-No.

S_006003

300W Xenon bulb

Art.-No.

S_006005

180W Xenon bulb



Art.-No.

S_006004

100W Xenon bulb



Art.-No.

S_006009

225W Halogen bulb



Light cable accessories

Endoscope side connectors

Art.-No.

S_700051

Storz/Olympus



Art.-No.

S_700043

Wolf/S&N



Art.-No.

S_700048

Acmi/Stryker



Light source side connectors

Art.-No.

S_700044

Storz



Art.-No.

S_700045

Olympus



Art.-No.

S_700046

Wolf/S&N



Art.-No.

S_700047

Acmi/Stryker









4 • INSUFFLATORS

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SOPRO 640 - 20 L Insufflator	p40
Accessories	p41



SOPRO 640 - 45L Insufflator

SPECIFICATIONS

- Maximum flow: 45 l/min in high flow mode - 2 l/min in low flow mode
- Automatic flow rate management according to leakages
- Patented autonomy function : display in real time the remaining time of the CO2 bottle
- Blow-off pressure: 0 to 24 mmHg (accuracy of 1 mmHg)
- Clear messages displayed with sound alarms
- External desufflation valve for over pressure to avoid cross contamination
- 5 languages (French, Italian, Spanish, English, German)
- Automatic low/high flow switching
- 5.7-inch LCD screen showing: immediate flow, intra-cavity pressure, blow-off pressure, total volume of CO2 used, chronometer
- Automatic calibration of the device
- Real time display of bottle pressure or central gas supply pressure
- Internal pre heating system
- Thumbwheel navigation and validation system
- CO2 gas bottle compatible (max 70 bars)
- CO2 central gas supply compatible (max 7 bar)
- Open-ended spanner intended for CO2 high-pressure hose connector
- Disposable or reusable tubings
- Dimensions: L=300mm, D=340mm, H=145mm
- Weight: 5 kg
- Main power cable
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 40VA
- 2 x 2.5 AT - 250V time-lag fuses - UR
- Continuous Service

Regulatory

- Electrical safety : Class 1
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_640_4002	45 L - EU Power Cord - with autonomy features
S_640_4004	45 L - US Power Cord - with autonomy features

SOPRO 640 - 30L Insufflator



SPECIFICATIONS

- Maximum flow: 30 l/min in high flow mode - 2 l/min in low flow mode
- Automatic flow rate management according to leakages
- Patented autonomy function : display in real time the remaining time of the CO2 bottle
- Blow-off pressure: 0 to 24 mmHg (accuracy of 1 mmHg)
- Clear messages displayed with sound alarms
- External desufflation valve for over pressure to avoid cross contamination
- 5 languages (French, Italian, Spanish, English, German)
- Option of automatic low/high flow switching
- 5.7-inch LCD screen showing: immediate flow, intra-cavity pressure, blow-off pressure, total volume of CO2 used, chronometer
- Automatic calibration of the device
- Real time display of bottle pressure or central gas supply pressure
- Internal pre heating system
- Thumbwheel navigation and validation system
- CO2 gas bottle compatible (max 70 bars)
- CO2 central gas supply compatible (max 7 bar)
- Open-ended spanner intended for CO2 high-pressure hose connector
- Disposable or reusable tubings
- Dimensions: L=300mm, D=340mm, H=145mm
- Weight: 5 kg
- Main power cable
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 40VA
- 2 x 2.5 AT - 250V time-lag fuses - UR
- Continuous Service

Regulatory

- Electrical safety : Class 1
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_640_3005	30 L - EU Power Cord - with autonomy features
S_640_3008	30 L - US Power Cord - with autonomy features
S_640_3009	30 L - EU Power Cord
S_640_3010	30 L - US Power Cord



SOPRO 640 - 20L Insufflator

SPECIFICATIONS

- Maximum flow: 20 l/min in high flow mode - 2 l/min in low flow mode
- Automatic flow rate management according to leakages
- Patented autonomy function : display in real time the remaining time of the CO2 bottle
- Blow-off pressure: 0 to 24 mmHg (accuracy of 1 mmHg)
- Clear messages displayed with sound alarms
- External desufflation valve for over pressure to avoid cross contamination
- 5 languages (French, Italian, Spanish, English, German)
- Option of automatic low/high flow switching
- 5.7-inch LCD screen showing: immediate flow, intra-cavity pressure, blow-off pressure, total volume of CO2 used, chronometer
- Automatic calibration of the device
- Real time display of bottle pressure or central gas supply pressure
- Internal pre heating system
- Thumbwheel navigation and validation system
- CO2 gas bottle compatible (max 70 bars)
- CO2 central gas supply compatible (max 7 bar)
- Open-ended spanner intended for CO2 high-pressure hose connector
- Disposable or reusable tubings
- Dimensions: L=300mm, D=340mm, H=145mm
- Weight: 5 kg
- Main power cable
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 40VA
- 2 x 2.5 AT - 250V time-lag fuses - UR
- Continuous Service

Regulatory

- Electrical safety : Class I
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage Temperature range: -10°C / +45°C
- Transport and storage Relative Humidity range: 20 to 85 %
- Operating, Transport and Storage Atmospheric pressure range: 700hPa to 1060hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_640_2002	20 L - EU Power Cord
S_640_2004	20 L - US Power Cord

Accessories

Art.-No.

S_607103L

Sterile single use insufflation tubing

made of PVC including sterile viral CO2 filter 0,027µ
delivered by pack of 20 pieces



Art.-No.

S_607043L

Reusable tubing

autoclavable



Art.-No.

S_016006L

Sterile viral CO2 filter

single use, 0,027µ
delivered by pack of 50 pieces



CO2 connection

Art.-No.

S_017036L

Flexible hose for high pressure bottle (60bars)

US-DIN 477-1, n°6, 1 meter FOR EUROPE

Art.-No.

S_017037L

Flexible hose for high pressure bottle (60bars)

US- UNF 7/16" US, 1 meter FOR USA

Art.-No.

S_391 000 023

Flexible hose for high pressure bottle (60bars)

US- IT (ISO5145), 1 meter FOR ITALY



Central gas supply hoses (Max 7 bars)

Contact us for more details

CO2 bottle connections

Art.-No.

S_017023

Pin Index connection

for DIN 477-1 n°6

Art.-No.

S_017034

Pin Index connection

for UNF 7/16" US







5 • FLUID MANAGEMENT

SOPRO 670 - Irrigation and suction pump for Arthroscopy	p44
Accessories	p45
Irrigation pump for Gynecology and Laparoscopy	p46
Accessories	p47
Irrigation and suction pump for Urology and Laparoscopy	p48
Accessories	p49
SOPRO 671 - Irrigation and suction pump for Laparoscopy . . .	p50
Accessories	p51



SOPRO 670 - Irrigation and suction pump for Arthroscopy

SPECIFICATIONS

- Maximum pressure (accuracy 5 mmHg): 120 mmHg
- Automatic management of the flow rate
- Irrigation flow management from 0 to 1.5L/mn
- Suction flow management from 0 to 100%
- Compact suction management system
- Noiseless
- Automatic Canula selection
- Flush function with foot remote control
- Quick compensation of leakages
- Automatic overpressure release system
- 5"7 LCD screen
- Browser system and validation by knob
- Visual and sound alarms
- Pneumatic foot pedal
- Dimensions: L=300mm, D=340mm, H=145mm
- Weight: 8 Kg
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- Power consumption: 80VA
- Protection by fuse: 2 x 2.5 A Temporised fuses - 250V - UR
- Continuous service

Regulatory

- Electrical safety: class 1, BF type
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating temperature range: +10° C / +40° C
- Operating Relative Humidity range: 30% to 75%
- Transport and storage Temperature range: -40° C / +70° C
- Transport and storage Relative Humidity range: 10 to 100 %
- Operating, Transport and Storage Atmospheric pressure range: 500 hPa to 1,060 hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_670_0001	EU Power Cord
S_670_0002	US Power Cord

Accessories for the SOPRO 670

Art.-No.

S_009007

Pneumatic remote control IP32



Art.-No.

S_670_003

1 sterile single use irrigation / suction tubing set
(pack of 15 pieces)



Art.-No.

S_700268

Lagoon 250, suction regulator

0 to -200mbar (0 to -150mmHg), maximum flow 20l/min
NF input connector, autoclavable 134°C
to be used on the suction line when hospital vacuum center is too strong

Art.-No.

S_700269

Bacteria filters
(pack of 100 pieces)



Company

Video cameras

Light sources

Insufflators

Fluid management

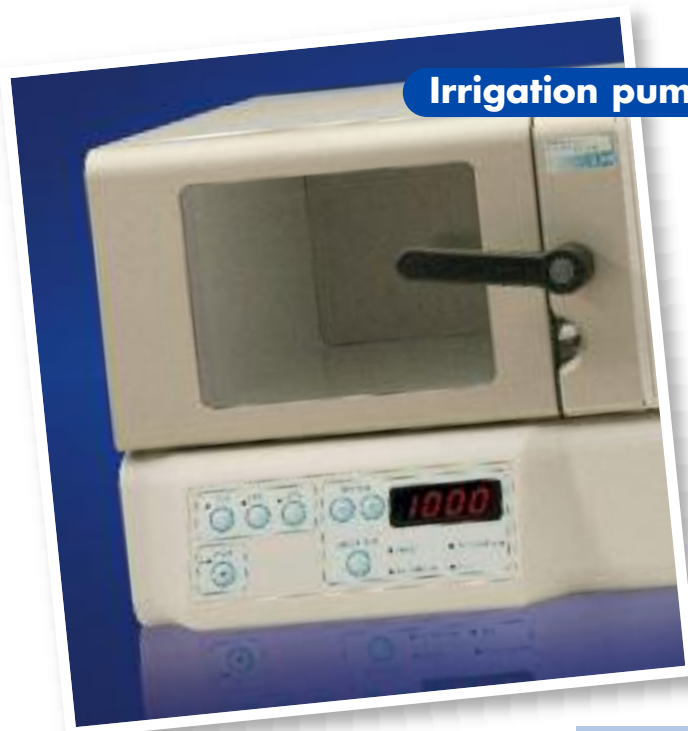
Shaver

LCD displays

Archiving systems

Printer

Medical carts



Irrigation pump for Gynecology and Laparoscopy

SPECIFICATIONS

- An innovative solution for continuous and none pulsating liquid flow to clean the surgical field
- Automatic over pressure management
- Pressure chamber capacities: Standard NaCl sacs up to 3 liters
- Pneumatic equipment
- The selected pressure is displayed on the front panel and is manually regulated during utilization.
- Built-in heating system to keep the chamber at 38°C (+/-2°C)
- Irrigation pressure:
 - Gynecology (LOW PRESSURE MODE): 0 to 230 mbar (10 mbars steps) or 0 -173mmHg
 - Laparoscopy (HIGH PRESSURE MODE): 0 to 1500 mbar (100 mbars steps) or 0 -1125mmHg
- Energy source: compressed air from operating room 3.5 to 10 bars
- Lighting on the pressure chamber
- Aspiration by connection to the hospital vacuum system, controlled by a hand piece connected to the tubing set, or controlled by foot-switch via the red electro-clamp placed on the front of the machine.
- Dimensions: L. 375mm; D. 350mm; H. 240mm
- Weight: 18 kg
- Power: 780 Watts
- Power supply: (220 - 240 VAC ~ / 50 - 60 Hz)
- Continuous service

Regulatory

- Electrical safety : Class 1, BF type without direct contact with the patient
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1;EN 60601-1-2 / group 1 / class B (medical) ; IEC 60601-2-18 ; IEC 60417 and EN 980
- EMC: EN 6100-3-2/3 (harmonic and flickers)
- International protection: Class IP21 for ENDO-FLOW / Class IP67 for the pedal

Environment

- Operating temperature range: +10° C / +40° C
- Operating Relative Humidity range: 30% to 75%
- Transport and storage Temperature range: -40° C / +70° C
- Transport and storage Relative Humidity range: 10 to 100 %
- Operating, Transport and Storage Atmospheric pressure range: 500 hPa to 1,060 hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_700225	Irrigation pump for laparoscopy and Gynecology - Endoflow 230
S_700224	Air/ machine cable connection, L:5m ; 3.5 bars France
S_700226	Power cable 5m - EU

Accessories

Art.-No.

S_700221L

Disposable set for hysteroscopy

double percutor
irrigation and suction tubings
(set of 20)



Art.-No.

S_700223L

Disposable set for irrigation and suction

single percutor
5mm cannula
(set of 8)



Company

Video cameras

Light sources

Insufflators

Fluid management

Shaver

LCD displays

Archiving systems

Printer

Medical carts



Irrigation and suction pump for Urology and Laparoscopy

SPECIFICATIONS

Regulatory

- Electrical safety: Class 1, BF type without direct contact with the patient
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; EN 60601-1-2 / group 1 / class B (medical) ; IEC 60601-2-18 ; IEC 60417 and EN 980
- EMC: EN 6100-3-2/3 (harmonic and flickers)
- International protection: Class IP21 for ENDOFLOW / Class IP67 for the pedal

Environment

- Operating temperature range: +10° C / +40° C
- Operating Relative Humidity range: 30% to 75%
- Transport and storage Temperature range: -40° C / +70° C
- Transport and storage Relative Humidity range: 10 to 100 %
- Operating, Transport and Storage Atmospheric pressure range: 500 hPa to 1,060 hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

- An innovative solution for continuous and none pulsating liquid flow to clean the surgical field
- Automatic over pressure management
- Pressure chamber capacities: Standard NaCl sacs up to 3 liters
- Pneumatic equipment
- The selected pressure is displayed on the front panel and is manually regulated during utilization.
- Built-in heating system to keep the chamber at 38°C (+/-2°C)
- Irrigation pressure:
 - Urology (LOW PRESSURE MODE): 0 to 190 mbars (10 mbars steps) or 0 -143mmHg
 - Laparoscopy (HIGH PRESSURE MODE): 0 to 1500 mbars (100 mbars steps) or 0 -1125mmHg
- Energy source: compressed air from operating room 3.5 to 10 bars
- Lighting on the pressure chamber
- Aspiration by connection to the hospital vacuum system, controlled by a hand piece connected to the tubing set, or controlled by footswitch via the red electro-clamp placed on the front of the machine.
- Dimensions : L. 520mm; D. 350mm; H. 240mm
- Weight: 27 kg
- Power: 780 Watts
- Power supply: (220 - 240 VAC ~ / 50 - 60 Hz)
- Continuous service

Art.N°

Description

S_700237 Double pump "cuve" for Laparoscopy and Urology with suction pump - Endoflow 2190

Accessories

Art.-No.

S_700239L

Disposable urology laser irrigation tubing

one spike with "flush" chamber

sterile

10/box



Art.-No.

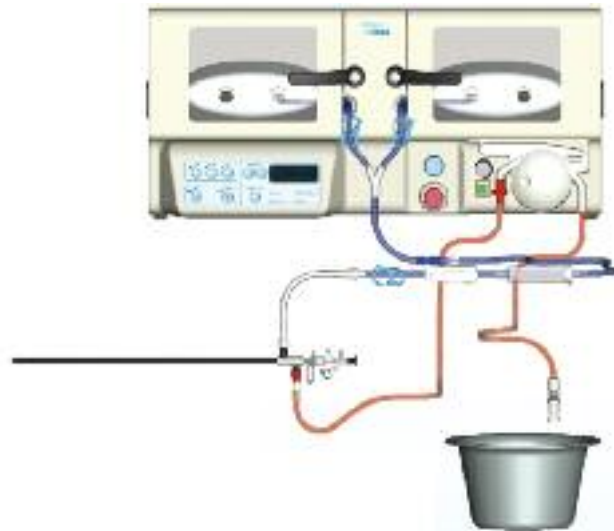
S_700238L

Disposable urology set for resection

double-percutor

with "Post-Op" irrigation set

15/box



Art.-No.

S_700223L

Disposable set for irrigation and suction

single percutor

5mm cannula

(set of 8)



Company

Video cameras

Light sources

Insufflators

Fluid management

Shaver

LCD displays

Archiving systems

Printer

Medical carts

SOPRO 671 - Irrigation and suction pump for Laparoscopy



SPECIFICATIONS

Regulatory

- Electrical safety: class 1, BF type
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment

- Operating temperature range: +10° C / +40° C
- Operating Relative Humidity range: 30% to 75%
- Transport and storage Temperature range: -40° C / +70° C
- Transport and storage Relative Humidity range: 10 to 100 %
- Operating, Transport and Storage Atmospheric pressure range: 500 hPa to 1,060 hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

- For the surgical-therapeutic pelviscopy/laparoscopy for rinsing of the abdominal cavity with physiological NaCl-solution
- Instillation quantity: 1,5 l/min +/- 10% (limited to 250ml/10 seconds)
- Instillation pressure: 200 mmHg
- Suction capacity is 2 l/min
- Large-volume 1, 25 liter secretion trap with graduation.
- Monofil-bivalent rinsing tubes allowing alternatively to instill NaCl-solution or to absorb blood and tissue particles
- Vacuum: up to 0.4bar
- Dimensions: L:550 x H:110 x D:230 mm (with accessories H = 400 mm)
- Delivered with : 1 secretion trap 1250ml, 1 lid for secretion trap, 1 filter, 1 puncture tube 240mm, 1 pressure tube set and a 2.5m long power cable.
- Weight: with accessories approx. 6 kg
- Power supply: (220 - 240 VAC ~ / 50 - 60 Hz)
- Power consumption: 165 VA
- Continuous service

Art.N°

Description

S_671_0001

Irrigation and suction pump for laparoscopy

Suction-irrigation units accessories

Suction and irrigation tube 5 mm with pistol handle

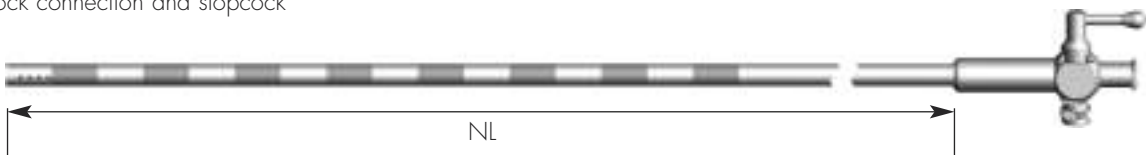
monofil-bivalent rinsing tube
bifilar system
allow controlling instillation quantity of saline solution preheated to body temperature or aspiration of saline solution and secretion through an aspiration system



Art.-No.	Outer Ø	Length
S_700284L	5mm	330mm

Suction and irrigation tubes graduated

with Luer-Lock connection and stopcock



Art.-No.	Outer Ø	Length
392 999 213	5mm	330 mm
392 999 212	5mm	450 mm

Suction and irrigation tube

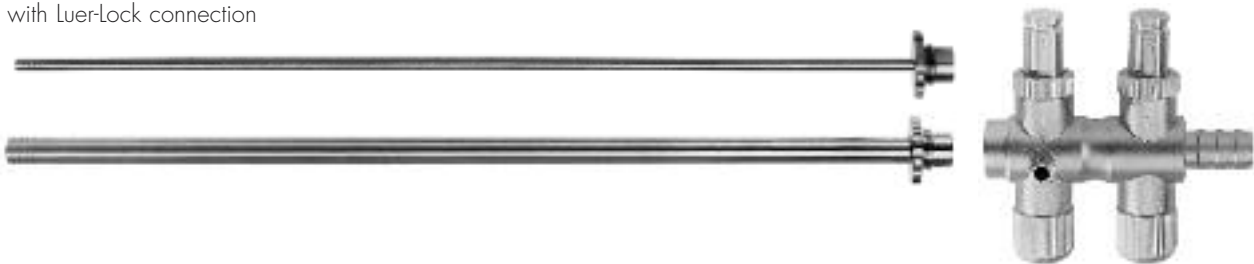
with Luer-Lock connection



Art.-No.	Outer Ø	Length
392 999 201	5mm	330 mm

Set of suction and irrigation tubes

with interchangeable tubes Ø 5mm and 10mm
with Luer-Lock connection



Art.-No.	Length
392 999 202	330 mm





6 • SHAPER

SOPRO 684 - Shaver handpieces	p54
SOPRO 684 - Multi purpose handpiece	p54
SOPRO 684 - Control unit and foot switch	p55
Shaver blades and burs	p56
Multi purpose handpiece accessories	p57



SOPRO 684 Shaver handpieces

SPECIFICATIONS

- High torque motor
- Superior cutting performances with hardened shave blade tips
- Suitable for small and large joint arthroscopy
- Precise speed control via handpiece buttons or foot switch
- Ergonomic and light weight handpiece
- Smooth and variable suction compatible with all irrigation systems
- One handed, bi-directional shaver cutter loading
- Machine washable
- Automatic blade and bur recognition defaults to optimum speed setting
- Speed range
 - Burs: 500 - 8000 rpm
 - Straight shaver cutter: 300 - 3000 rpm
 - Oscillating straight shaver cutter: 500 - 1500 rpm
 - Curved shaver cutter: 300 - 1000 rpm
 - Oscillating curved shaver cutter: 500 - 1000 rpm
- 2 controls (in option)
- Material: Anodised aluminium and stainless steel
- Vacuum steam autoclave, wrapped or unwrapped, minimum 3 minutes @ 134°C, 8 minute minimum drying time
- Weight: 284g (Ex cable)
- Length: 152mm
- Diameter: 35mm
- Voltage: 24V
- Continuous service

Regulatory*

- Electrical safety : Class 1, B type
- Comply with the European standard 93/42/EEC - Class IIa
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980

Environment*

- Operating temperature range: +10° C / +40° C
- Operating Relative Humidity range: 30% to 75%
- Transport and storage Temperature range: -40° C / +70° C
- Transport and storage Relative Humidity range: 10 to 100 %
- Operating, Transport and Storage Atmospheric pressure range: 500 hPa to 1,060 hPa
- Not protected against waterfalls (IPX0)
- Not adapted to a use close to a mixture of inflammable anaesthetic with air or oxygen or nitrous oxide.

Art.N°	Description
S_684_8000	Sopro 684 shaver handpiece with button control
S_684_8001	Sopro 684 shaver handpiece with foot pedal control



SOPRO 684 Multi purpose handpiece

SPECIFICATIONS

- Speed: 0 - 1100 rpm
- Cannulation: 4.1 mm
- Connects to the Power console power supply via 4 metre cable
- Forward, reverse or oscillating modes are available from handpiece trigger or from the power supply settings.
- Vacuum steam autoclave, wrapped or unwrapped, minimum 3 minutes @ 134°C, 8 minute minimum drying time
- Continuous service

Art.N°	Description
S_684_8002	Sopro 684 Multi purpose handpiece
S_700274	Multi purpose handpiece power cable

*Applying for all the different elements composing SOPRO 684



SOPRO 684 Control unit

SPECIFICATIONS

- Foot switch with variable speed selection
- Direction: Selection for Forward/Reverse/Oscillate and Safe Modes
- Tool Select: Selects power output socket on the control unit
- Speed Control: Variable speed control of selected Instrument
- Foot Guard: Protects against accidental actuation of the foot control. The foot guard can also be used to move the Foot Switch and folds flat when not required.
- Mains input: 230 Vac, 120Vac, 100Vac
- Mains power cord: 3 m
- Continuous service

Art.N°	Description
S_684_9000	Sopro 684 control unit - EU plug
S_684_9001	Sopro 684 control unit - UK plug
S_684_9002	Sopro 684 control unit - US plug
S_684_9003	Sopro 684 control unit - AUS plug
S_684_9004	Sopro 684 control unit - SWISS plug



Foot switch

SPECIFICATIONS






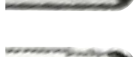
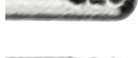

- Features forward, reverse, oscillating and safe mode selection
- A or B power output selection
- Variable speed selection
- Continuous service

Art.N°	Description
S_684_0010	Foot switch




Shaver blades and burs



Straight blades




		Size / Art. n°				
	Function	Ø2.5 mm	Ø3.5 mm	Ø4.2 mm	Ø5.5 mm	Ø6.5 mm
	Resector	S_725 000 L	S_735 000 L	S_742 000 L	S_755 000 L	S_765 000 L
	Agressive resector	S_725 001 L	S_735 001 L	S_742 001 L	S_755 001 L	S_765 001 L
	Rapid resector	-	-	S_742 002 L	S_755 002 L	-
	Rapid aggressive resector	-	-	S_742 003 L	S_755 003 L	-
	Meniscus cutter	-	S_735 002 L	S_742 004 L	S_755 004 L	-
	Agressive meniscus cutter	-	S_735 003 L	S_742 005 L	S_755 005 L	-
	Rapid meniscus cutter	-	-	S_742 006 L	S_755 006 L	-
	Side cutter	-	S_735 004 L	S_742 007 L	S_755 007 L	-

Straight burs

		Size / Art. n°				
	Function	Ø2.5 mm	Ø3.5 mm	Ø4.2 mm	Ø5.5 mm	Ø6.5 mm
	Round bur	-	S_735 005 L Ø 2.5 mm cutter	S_742 008 L Ø 3 mm cutter	S_755 008 L Ø 4 mm cutter	S_765 002 L Ø 5 mm cutter
	Oval bur	-	-	-	S_755 008 L Ø 4 mm cutter	S_765 003 L Ø 5 mm cutter
	Tapered bur	-	-	-	S_755 010 L Ø 4 mm cutter	S_765 004 L Ø 5 mm cutter

Disposable curved blades



		Size / Art. n°				
	Function	Ø2.5 mm	Ø3.5 mm	Ø4.2 mm	Ø5.5 mm	Ø6.5 mm
	Resector	-	-	S_742 009 L	S_755 011 L	-
	Agressive resector	-	-	S_742 010 L	S_755 012 L	-
	Side cutter	-	-	S_742 011 L	S_755 013 L	-

- Shaver blades and burs are individually sealed in sterile blister packs and supplied in a box of 5.
- High quality, extra sharp, hardened shaver blade tips deliver superior quality performance

- Reusable shaver blades and burs are available on request.
- Names and references are subject to change without prior notice

Multi purpose handpiece accessories

Art.-No.

S_700247

Jacobs chuck 0 - 4 mm (5/32")

Speed: 0 - 1100 rpm

Cannulation: 3.1 mm



Art.-No.

S_700248

Quick release chuck A.O.Synthes/ASIFTM

Speed: 0 - 1100 rpm

Cannulation: 2.0 mm



Art.-No.

S_700249

Quick release sagittal saw

Speed: 0 - 21000 cycles/min



Art.-No.

S_700250

Sagittal saw

Speed: 0 - 18000 cycles/min



Art.-No.

S_700251

Reciprocating saw

Speed: 0 - 12000 cycles/min



Art.-No.

S_700252

Wire driver

Speed: 0 - 1100 rpm

Cannulation: 0.6 - 1.8 mm

Art.-No.

S_700260

Pin driver

Speed: 0 - 1100 rpm

Cannulation: 1.8 - 3.2 mm







7 • LCD DISPLAYS

26" HD surgical display	p60
24" HD surgical display	p60
19" HD surgical display	p61
19" diagnostic display	p62
17" diagnostic display	p62
Accessories	p63



Foreseeson 26" HD surgical display

SPECIFICATIONS

- Panel Type TFT LCD-IPS
- Max. Resolution 1920 x 1200
- Aspect ratio : 16:10
- Brightness 500cd/m² (Typical)
- Contrast Ratio 1000:1 (Typical)
- Response time : (tr+tf)ms : 12
- Viewing Angle (U/D/L/R) 89/89/89/89
- Video inputs: HD/SD-SDI, RGBS, RGBHV, DVI, VGA, S-Video, Component, DVI, VGA, Fiber optic DVI,
- Dimensions (W x H x D) 618 x 412 x 99.5
- Weight 8.8 Kg
- Mounting: VESA & Table stand

Regulatory

- Electrical safety : Class 1
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1-1, 60601-1-2, CCC, FCC-B P CAN/CSA, ICES-001, VCCI Class B

Art.N°

Description

S_700207

Foreseeson 26" HD surgical display



BARCO MDSC-2124 24" HD surgical display

SPECIFICATIONS

- Viewing area (diagonal): 24" - TFT AM LCD technology
- Viewing angle: 178°
- Pixel pitch: 0.294 mm
- Resolution: (H x W): 1920 x 1200
- Luminance: 500 cd/m²
- Contrast ratio: 1000:1
- Analog video input: RGBS, 1 composite video, S-video VGA
- Digital Video Input: DVI & HD-SDI
- Video formats: From PAL 576i, HD-SDI & NTSC 480i to HDTV resolution
- Weight: 12 kg
- Mounting: VESA & Table stand

Regulatory

- Electrical safety : Class 1
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1-1, 60601-1-2, CCC, FCC-B P CAN/CSA, ICES-001, VCCI Class B

Art.N°

Description

S_700090

Barco MDSC- 2124 - 24" HD surgical display



BARCO MDSC-1119 19" HD surgical display

SPECIFICATIONS

- Viewing area (diagonal): 19" - TFT AM LCD technology
- Viewing angle: 178°
- Pixel pitch: 0.294 mm
- Resolution: (H x W): 1280 x 1024
- Luminance: 300 cd/m²
- Contrast ratio: 700:1
- Analog video input: RGBS, 1 composite video, S-video VGA
- Digital Video Input: DVH & SD-SDI
- Video formats: From PAL 576i & NTSC 480i to HDTV resolution
- Weight: 8 kg
- Mounting: VESA & Table stand

Regulatory

- Electrical safety : Class 1
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1-1, 60601-1-2, CCC, FCC-B P CAN/CSA, ICES-001, VCCI Class B

Art.N°	Description
S_700056	Barco MDSC -1119, 19" surgical display



Neovo 19" diagnostic display

SPECIFICATIONS

- Panel Type TFT LCD
- Max. Resolution: SXGA 1280 x 1024
- Pixel Pitch: 0.294mm
- Brightness: 250cd/m2 (Typical)
- Contrast Ratio: 600:1 (Typical)
- Viewing Angle: (H/V) 140°/130° (Typical)
- Input Analog: 15-Pin D-Sub
- Digital: 29-Pin DVI-D
- S-Video: 4-Pin Mini Din S-Video
- CVBS: CVBS Jack
- Connector Power: 3-Pin AC Plug
- Thickness: 3.0mm (0.18")
- Reflection Rate: <1%
- Transmission Rate: >96%
- Power: AC 100 – 240V, 50 – 60Hz
- Consumption <48W (On) <4W (Stand-by) <2W (Off)
- Dimensions: (W x H x D) 444 x 419 x 175mm
- Weight: 7.9Kg

Regulatory

- Safety & EMI FCC, UL/CUL, EPA,
- TUV/BAURT, CE, TCO 95,
- BSMI, ISO 13406-2, GOST

Art.N°	Description
S_700030	Diagnostic 19" NEOVO flat panel white



Neovo 17" diagnostic display

SPECIFICATIONS

- Panel Type TFT LCD
- Max. Resolution: SXGA 1280 x 1024
- Pixel Pitch: 0.264 mm
- Brightness: 300cd/m2 (Typical)
- Contrast Ratio: 3000:1 (DCR)
- Viewing Angle (H/V): 160°/160° (Typical)
- Video inputs: SDI, RGBS, S-Video, Composite, DVI, VGA
- Video cables: (S-Video, SDI, VGA, DVI)
- Frequency: (H/V) H: 30 kHz - 80 kHz V: 56 Hz - 75 Hz
- Power: AC-DC Adaptor
- Power Consumption: AC 100 - 240 V, 50 - 60 Hz < 42 W (on) < 2 W (Stand-by) < 1 W (Off)
- Dimensions: (W x H x D) 408 x 398 x 175 mm
- Weight: 6.8 kg

Regulatory

- Safety & EMI FCC, UL/CUL, EPA,
- TUV/BAURT, CE, TCO 95,
- BSMI, ISO 13406-2, GOST

Art.N°	Description
S_700021	Diagnostic 17" NEOVO flat panel white

Accessories

Art.-No.

S_703003

Medical-grade power supply for Diagnostic screens

Art.-No.

S_700057

Desktop Stand for 19" 24" and 26" with VESA mounting

Art.-No.

S_700279

Protection glass for 24 and 19" displays

Company

Video cameras

Light sources

Insufflators

Fluid
management

Shaver

LCD displays

Archiving
systems

Printer

Medical carts





8 • **ARCHIVING SYSTEMS**

22" HD Point of care terminal	p66
19" Point of care terminal	p67
Full HD portable recording system	p68
USB key archiving systems	p69
Medical DVD Recorder	p70



22" HD Point of care terminal

HD

Integrated touch screen and PC panel with video software management.

SPECIFICATIONS OF THE SCREEN

- Plastic ABS
- Display type: 22" TFT LCD
- Max. resolution: 1680 x 1050
- Max. colors: 16,7 M
- Active area: 473,76 x 296,1 mm
- Pixel pitch: 0,282 x 0,282 mm
- Response time: 20 ms
- Backlight: 6 CCFL
- Backlight MFBF: 50.000 hrs
- Contrast ratio: 1000 (TYP.)
- Brightness (cd/m²): 300 nits
- Fanless tactile 250
- Lock type external 12V AC / DC medical grade power adapter
- Thickness: resistive 3.2 mm
- Light transmission: resistive 80%
- Power: resistive +5V - 100 mA
- Consumption touch life: resistive 35 millions touches, controller interface RS-232, D-type 9-pin male connector or USB connector

Regulatory

- UL60601-1, EN60601-1, CE & FCC Class B certified

SPECIFICATIONS OF THE SOFTWARE

- Image and video captures in HD formats
- Jpeg, mjpeg, mpeg4 HD compression
- Native or Dicom export on server or portable supports (DVD, USB...)
- Report with specific user environment : title, list of comments, export directory, writer identification...
- Double screen and multi windows management
- Connection to the information system (Dicom worklist and Broker HL7 option)
- Negatoscope and more options available on request
- SDI input with automatic recognition of the resolution (PAL, ..., 1080p60)
- Source selector

Input signal

- HD-SDI, VGA, RGB analog 0.7v peak-to-peak
- Touchscreen: serial RS-232 or USB
- Audio-in
- 3 USB (1 slave, 2 host)

I/O connectors

- 1 X BNC with SDI loop
- 3 X RS 232
- 1 X VGA out (double écran up to 2560 x 2048)
- 2 X Eth Gb
- 4 X USB

Art.N°	Description
S_700280	22" HD Point of care terminal
S_700057	Desktop Stand for 19", 24" and 26" with VESA mounting


19" Point of care terminal

SPECIFICATIONS OF THE SCREEN

- Max. Resolution 1280 x 1024
- Max. Colors 16.7M
- Dot size (mm) 0.264 x 0.264
- Viewing angle 178/178°
- Luminance 300 cd/m2
- Contrast ratio 1300 : 1
- LCD MTBF 50,000 hours
- Backlight lifetime 50,000 hours
- Type Analog Resistive
- Resolution Continuous
- Light transmission 75%
- Controller RS-232 interface (use COM4)
- 1 x RS-232 and 1 x RS232/422/485 serial port; 2 x USB ports; 1 x PS/2 mouse and K/B; 1 x D-sub VGA port
- 2 x 1 W speakers; 1 x MIC-in and Speaker-out
- Universal AC/DC adapter (Sinpro Model no. MPU100-108)
- Input voltage 100 ~ 240 VAC, 47 ~ 63 Hz, 1.25 ~ 0.5 A
- Output voltage +24 VDC, 4.16 A max. (100 watts)
- Durability 30 million touches
- Dimensions (W x H x D) 471.5 x 416.2 x 110.8 mm
- Weight 10 kg

Regulatory

- UL60601-1/EN60601-1, CE & FCC Class B certified

SPECIFICATIONS OF THE SOFTWARE

- Source selector
- Image and video captures
- Jpeg,mjpeg, mpeg4 compression
- Native or Dicom export on server or portable supports (DVD, USB...)
- Report with specific user environment : title, list of comments, export directory, writer identification...
- Double screen and multi windows management
- Connection to the information system (Dicom worklist and Broker HL7 option)
- Negatoscope and more options available on request
- SDI input with automatic recognition of the resolution (PAL,, 1080p60)

Art.N°	Description
S_700281	19" Point of care terminal
S_700057	Desktop Stand for 19", 24" and 26" with VESA mounting



Full HD portable recording system

HD

SPECIFICATIONS

- Full HD video capture (1920 x 1080) with exceptional color accuracy
- Digital recording in a compatible H.264 format on SDHC memory cards
- Remote control by camera
- Up to 12 hours on a single 32GB card.
- Direct random access playback on compatible Blu-ray players, displays and PCs.
- Content files can be transferred to a PC via USB 2.0 Terminal (Type mini B)
This lets a Windows PC/Mac installed with the provided AVCCAM Viewer software to ingest, copy, and write HD video files, as well as transfer them to AVCHD-compatible nonlinear editing software for HD image production.
- Monitor Connection HDMI Output Terminal
The AG-MDR15 series let you input audio from external microphones (the stereo mini jacks). When the optional AG-MDC10G camera head is connected, audio recording is also possible from the stereo microphones built into the camera head. In either case, it's easy to adjust the audio input with the level meters displayed on the LCD monitor.
- Recording format: AVCHD
- Compression Method: MPEG-4AVC/H.264
- SDHC Memory card: up to 32GB (FAT32)
- Thumbnail View: 8 frames/page

- Editing functions: delete, write-project
- HD-SDI Input, BNC x 1, 0.8 V_{pp}, 75Ω
- HD-SDI/SD-SDI Output, BNC x 1, 0.8 V_{pp}, 75Ω
- HDMI output x 1 (HDMI Type A Terminal) up to 1080/60i
- Compression bit-rate: PH Mode : 384 kbps, HA, HG and HE mode: 256 kbps
- External Microphone input: -70 dBV (Mic sensitivity: -50 dB equivalent, 0 bB=1 V/Pa 1kHz)
- Stereo mini jack(3.5mm diameter) (Not compatible with plug-in power microphone)
- Headphone input: Stereo mini jack(3.5mm diameter) x 1
- Built-in Speaker: 20mm (round) x1
- Camera remote: Super mini-jack (2.5mm diameter) x 1, for start/stop operations
- LCD monitor: 3.5 inches, LCD color monitor, Approx. 210,000 pixels
- Standard accessories: AC adapter/charger, 2640 mAh battery pack (secure type), AC cable, DC cable(catch type), CD-ROM, AVCCAM Restorer (Windows PC/MAC)
- Weight: approx. 580g – excluding battery and accessories, approx. 691g included bundled battery
- Dimensions: (WxHxD) : 96 x52.6x133mm
- Power supply: 7.3 V (using with AC adapter)
- Power consumption: 11.7W (with option)
6.5W (in standalone conditions)

Regulatory

- UL 60601-1, EN 60601-1, EMC requirements in accordance with IEC 60601 - 1-2 (EN 60601-1-2)

Art.N°

Description

S_700282

Full HD operating room recording system

USB Key archiving systems



Regulatory

- CE 93/42/EEC
- UL 60601-1, IEC 60601-1, IEC 60601-1-2
- CSA C22.2 No.601.1, E 306417
- FCC Part 15, FDA Class 1, RoHS, PSE



Regulatory

- CE 93/42/EEC
- UL 60601-1, IEC 60601-1, IEC 60601-1-2
- CSA C22.2 No.601.1, E 306417
- FCC Part 15, FDA Class 1, RoHS, PSE

SPECIFICATIONS OF M-USB-300

HD

- HD Medical Video Recorder
- Records high-definition video and still images from medical video sources to internal hard drive or external USB drive
- LCD Monitor: 2 1/2", full color (for video confirmation only, not for diagnosis)
- Buttons: sealed membrane, fluid resistant
- USB Support: USB2.0 high speed
- 1 front connector, 2 rear connectors
- Networking RJ45 10/100/1000 Ethernet
- Footswitch
- Trigger Standard 3.5mm mini jacks (one for photos, one for videos)
- External Media USB flash drives or USB hard drive
- Video Formats H.264 / MPEG4 (1080, 720, NTSC, PAL)
- Image Formats JPG, BMP
- Video Input DVI (RGB via adapter), HD, SDI, S-Video, Composite
- Internal hard drive, 320GB
- Size: 240 x 211 x 63mm
- Weight: 1.8kg
- Power supply: (110-230 VAC~; 50 -60Hz)
- 3-prong AC jack

Art.N°	Description
S_700211	M-USB 300 for full HD video and still images
S_009002	Foot remote control

SPECIFICATIONS OF M-USB-200

- Medical video and image capture device.
- LCD Monitor 2 1/2", full color (for navigation only, not for diagnosis)
- Buttons sealed membrane, fluid resistant
- Video PAL or NTSC (menu selection)
- S-video or composite BNC connections for both input and output
- Foot Switch Hands-free capture
- Standard 3.5mm mini jack
- Media MediCapture brand USB flash drives (required)
- Image Formats JPEG, TIFF, or PNG (upgrade required for DICOM)
- Image Size 1024 x 768, 800 x 600, 640 x 480 pixels
- Video Format MPEG2 (DVD-quality) or MPEG1
- Size: 240 x 200 x 63mm
- Weight: 1.5kg
- Power supply: (110-230 VAC~; 50 -60Hz)

Art.N°	Description
S_700091	M-USB200 for video and still images
S_009002	Foot remote control



Medical DVD recorder

SPECIFICATIONS

- Recording System: DVD Recording, NTSC/PAL Switchable
- Recording Format: Video: MPEG-2 compression
- Audio: Dolby Digital format
- Recordable Media: DVD+RW (2.4x and 4x speed)
- Recording Time: HQ Mode: 60 minutes
- Composite Input: BNC x2
- S-Video Input: 4-pin DIN x2, with loop-through
- Y/C input
- S-Video Output: 4-pin DIN x1
- Y/C output
- Remote Control: RS-232C x1, D-sub 9-pin
- Dimensions: 212 x 128.5 x 382 mm
- Weight: 6 kg
- Power supply: (110-230 VAC~; 50 -60Hz)
- Power Consumption: 35 W

Regulatory

- Medical Standards: EN60601-1, EN60601-1-2, UL60601-1, CSA C22.2 No.60601.1

Art.N°

Description

S_700077 Medical DVD recorder







9 • **PRINTER**

UP-25MDSYN Color video printerp74



UP-25MDSYN Color video printer

SPECIFICATIONS

- HDTV signal support – 1080i and 720p automatically
- Printing Method: Dye Sublimation Thermal Printing
- Resolution: 423 DPI
- PAL & NTSC compatible, all standard interfaces
- RS-232 Control
- Gradation: YMC images using 8 bit/256 gradations per color, approx
- Interface: RGB/YPbPr (BNC X 3) S Video (4-pin min-DIN X 1) Composite Video (BNC X 1)
- Print Media: UPC-21L (L size standard color print pack) (4 x 50 packs) / UPC-21S (S size standard color print pack) (3 x 80 packs) / UPC-24SA (S size laminated color print pack) (3 X 60 packs) / UPC24LA (L size laminated color print pack) (4 X 40 packs)
- Print Size: UPC-21L/UPC-24LA Size: Full 5 X3 3/4"
- UPC-21S/UPC-24SA Size: Full 3 3/4 X 2 7/8"
- Print Speed: NTSC: UPC-21S approx. 19 sec. (high speed mode) UPC-21L approx. 29 sec.
- Paper Tray Capacity: S Size tray: Max. 80 sheets L Size tray: Max 50 sheets
- Power supply: (110-230 VAC~; 50 -60Hz)
- Input Current: 1.7-1.0 A
- Dimensions: 212 x 98 x 398 mm
- Weight: 5.7kgs

Regulatory

- UL 1950 and UL 2601-1 Listed / CSA . C22.2 No. 601.1 / No. 950 / EN60950 / EN60601-1

Art.N°

Description

S_700262 UP-25MDSYN Color video printer

Art.-No.

S_700076

UPC-21L - A6 Large-size color print pack for use in UP-25MDSYN printer

Pack contents: 200 sheets of print media, 4 color ink ribbons

Order unit: 1 pack







10 • MEDICAL CARTS

Premium carts	p78
Basic carts	p79

Premium cart with long and short arms



SPECIFICATIONS

- 1x Adjustable shelf
- 1x Drawer
- 1x Long arm on central pivot with handles
- 1x Short arm on central pivot with handle
- 1x 5m Careflex Power Cord
- 4x 60cm connection power cables
- 2x Holders for monitor power adapter
- 1x CO2 bottle holder

Art.N°	Description
S_700275	Premium cart with long and short arms

Premium cart with long arm



SPECIFICATIONS

- 1x Adjustable shelf
- 1x Drawer
- 1x Long arm on central pivot with handles
- 8x counterweight 5mm
- 1x 5m Careflex Power Cord
- 4x 60cm connection power cables
- 1x Holder for monitor power adapter
- 1x CO2 bottle holder

Art.N°	Description
S_700276	Premium cart with long arm

Basic cart with fixed screen + short arm

SPECIFICATIONS

- 1x Adjustable shelf
- 1x Drawer
- 1x Extension tube 300mm for arm
- 1 x articulated short arm
- 1x Fixed arm for flat panel mount
- 1x 5m Careflex Power Cord
- 4x 60cm connection power cables
- 1x Holder for monitor power adapter
- 6x Counterweight 5mm
- 1x CO2 bottle holder



Art.N°	Description
S_700277	Basic cart with fixed screen and short arm

Basic cart with fixed screen

SPECIFICATIONS

- 1x Adjustable shelf
- 1x Drawer
- 1x Extension tube 300mm for arm
- 1x Fixed arm for flat panel mount
- 1x 5m Careflex Power Cord
- 4x 60cm connection power cables
- 1x Holder for monitor power adapter
- 1x CO2 bottle holder



Art.N°	Description
S_700278	Basic cart with fixed screen





SOPRO-COMEG worldwide



SOPRO-COMEG COMMITMENTS

Customer proximity

Direct and quick communication with our local sales force.

National placed inventory to ensure quick delivery time.

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