

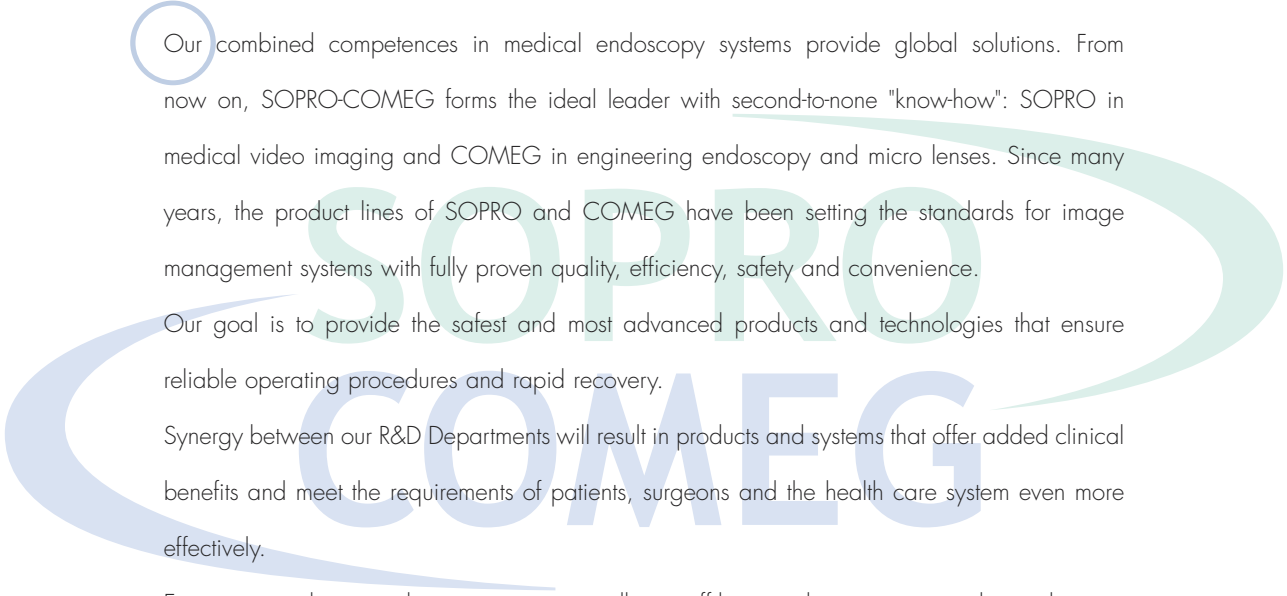


OUR TECHNOLOGY YOUR SKILL



**CAPITAL
EQUIPMENT
2014**



A large, semi-transparent watermark of the SOPRO-COMEG logo is centered on the page. It features the word 'SOPRO' in a light green font and 'COMEG' in a light blue font, both in a bold, sans-serif typeface. The text is partially enclosed by two large, sweeping, curved lines: a light green one above and a light blue one below, which also frame the text.

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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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

2007

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 the Sopro 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 UBIPACK, the complete solution for gynecology and ENT

2011

Introduction of ULYSS, 4mm autoclavable endoscope with variable direction of view

2012

New range of uretero-renaloscopes

2013

Introduction of a bipolar resectoscopy range

Products range at a glance

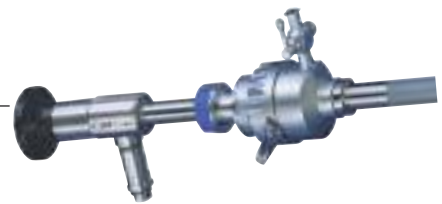


Capital equipment

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, 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 and 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..



**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
- Technical training

• SOPRO-COMEG

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2 • VIDEO CAMERAS

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SOPRO
397

3CCD Full HD camera



The most detailed image

- **Stunning video rendering**
- **Optimized settings per surgical application**
- **Camera head with 3 programmable buttons**
- **Control of insufflator**
- **On-screen display of insufflator parameters**
- **Reliable optical zoom to fit all surgical applications**

icons



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 endoscopes
- 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 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

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
- 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 for cold disinfection*

REGULATORY & ENVIRONMENT

- 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
- 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_397_9000	Digital FULL HD 16/9 3CCD CCU, EU
S_397_9001	Digital FULL HD 16/9 3CCD CCU, US
S_397_8000	Digital FULL HD 16/9 3CCD camera head, C-mount
S_097_0001	24mm HD coupler, C-mount, scope holder
S_097_0002	24mm HD coupler, C-mount, scope holder, with high torque focus ring
S_413024	16-34mm HD Zoom coupler, C-mount, scope holder
S_701004	18mm beamsplitter 90°, C-mount, rotatable head, without eyepiece
700206	Medical keyboard, soakable, QWERTY, PS2

SOPRO
368

3CCD HD camera



Optimal image quality

- Outstanding image quality
- Menu by applications and user's profiles
- On-Screen display menu
- Ergonomic design of camera head
- Camera head with 2 programmable buttons
- Control of peripheral devices



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 endoscopes
- 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)
- 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

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
- Free scope rotation and locking system
- 2 programmable buttons
- Signal / Noise ratio: 60 dB
- Size of the sensor: L = 80mm; Ø = 32 mm
- Weight of the sensor: 250 g
- Cable length: 3,60 meters
- Waterproof for cold disinfection*

REGULATORY & ENVIRONMENT

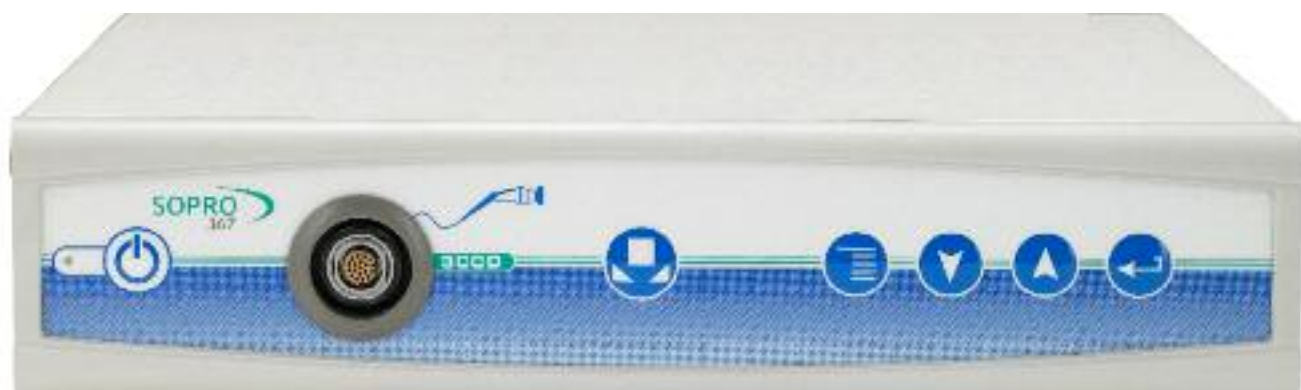
- Electrical safety: Class 1, BF type
- Comply with the European standard 93/42/EEC - Class I
- Comply with the international standards IEC 60601-1; IEC 60601-2-18 ; IEC 60417 and EN 980
- Operating Temperature range: +10°C / +40°C
- Operating Relative Humidity range: 30 to 75 %
- Transport and storage 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
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S_368_9000	Digital HD 3CCD CCU, PAL, DVI output
S_368_9001	Digital HD 3CCD CCU, 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, C-mount, scope holder, with high torque focus ring
S_413024	16-34mm HD zoom coupler, C-mount, scope holder

SOPRO
367

3CCD camera



The classic 3CCD model

- Impressive image quality
- Menu by applications and user's profiles
- On-Screen display menu
- Ergonomic design of camera head
- Camera head with 2 programmable buttons
- Control of peripheral devices



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 endoscopes
- 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)
- 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

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
- Free scope rotation and locking system
- 2 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 for cold disinfection*

REGULATORY & ENVIRONMENT

- 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
- 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.

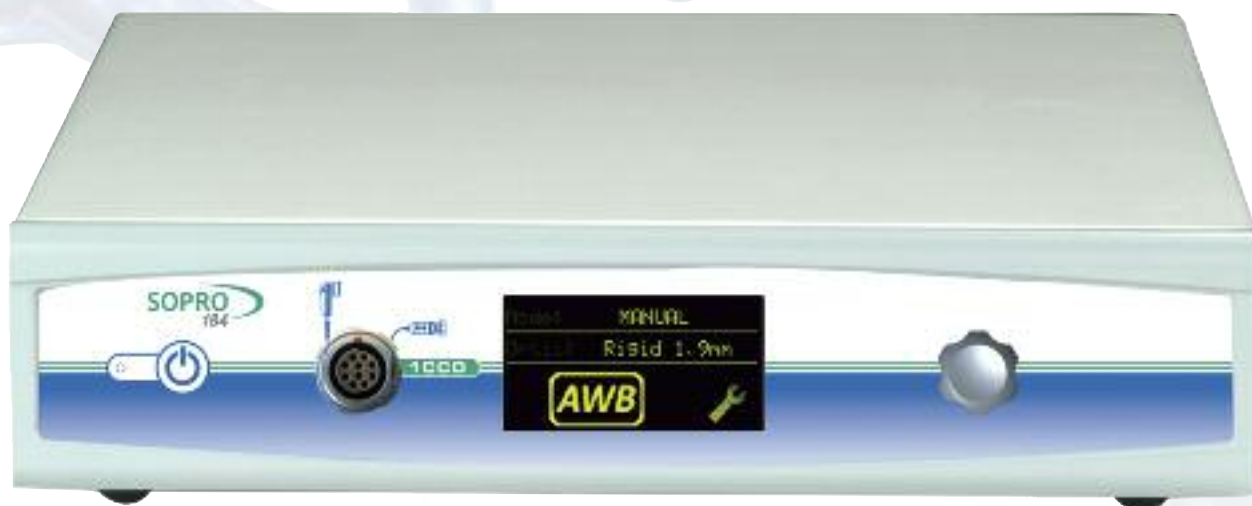
Art.N°

Description

S_367_9000	Digital 3CCD CCU, PAL,
S_367_9001	Digital 3CCD CCU, 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_0003	18 mm HD coupler, C-mount, scope holder,with high torque focus ring
S_413024	16-34mm HD Zoom coupler, C-mount, scope holder

SOPRO 184

1 CCD camera



Performance and simplicity

- Available with regular and pendular sensor
- Compatible with rigid and flexible endoscopes
- Outstanding image quality
- Multidisciplinary
- Intuitive interface
- Direct computer link through USB to be used with Sopro Imaging medical software



SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- Automatic video settings detection mode
- Automatic white balance with **ICe** technology
- Anti-moiré filter for flexible endoscopes
- Automatic electronic shutter (1/50 à 1/100 000)
- Video enhancement
- Intuitive menu with navigation wheel
- Menu by applications and user's profile
- Modification of the red and the blue gain
- Adjustable shutter area
- Gamma adjustment
- 5 languages (English, French, German, Spanish, Italian)
- Reset manufacturer settings
- Color bar generator
- Automatic saving of the adjusted parameters
- 1 remote control output
- 1 RGBS video output (3 x 0,7 Vcc / & 0,3 Vcc / 75Ω Sync Negative)
- 1 Y/C video output (1 Vcc & 0,3 Vcc / 75Ω Sync Negative)
- 1 composite video output (1 Vcc / 75Ω)
- 1 USB2 output
- 2 digital SDI outputs (option)
- Size of the control unit: W: 300mm; D: 300mm; H: 66 mm
- Weight of the control unit: 1500 g
- Powersupply: (110-230 VAC ~ ; 50/60 Hz)
- Powerconsumption: 25 VA
- Two T 800 mA - 250V fuses (only fuses marked UL)
- Continuous service

SPECIFICATIONS OF THE STANDARD CAMERA HEAD

- Sensor: CCD 1/4" high sensitivity
- Resolution: (752 x 582) PAL ; (768 x 494) NTSC
- Sensitivity: 2 lux
- Free scope rotation and locking system
- 2 fully programmable buttons (white balance, capture of images or videos, gamma, details,...)
- Waterproof camera head for cold disinfection
- Cable length: 3 meters
- C-Mount
- Size of the sensor: L: 87 mm ; Ø: 30 mm
- Weight of the sensor: 210 g

SPECIFICATIONS OF THE PENDULAR CAMERA HEAD

- Sensor: CCD 1/4" high sensitivity
- Resolution: (752 x 582) PAL ; (768 x 494) NTSC
- Sensitivity: 2 lux
- 360° quick-lock system
- 1 fully programmable wheel
- Waterproof camera head for cold disinfection
- Cable length: 3 meters
- Integrated coupler: F12 or F15 mm
- Size of the sensor: L: 80 mm; Ø: 32 mm
- Weight of the sensor: 110 g

REGULATORY & ENVIRONMENT

- 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
- 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.

Art.N°

Description

S_184_9100	CCU PAL/NTSC, USB2 output, SIM software (trial version) - EU
S_184_9101	CCU PAL/NTSC, USB2 output, SIM software (trial version) - US
S_184_9102	CCU PAL/NTSC, USB2 output, SIM software (trial version), 2 SDI outputs - EU
S_184_9103	CCU PAL/NTSC, USB2 output, SIM software (trial version), 2 SDI outputs - US
S_184_8100	1CCD camera head, PAL, C-Mount
S_184_8101	1CCD camera head, NTSC, C-Mount
S_084_0001	18.5 mm coupler, C-Mount, scope holder
See us	1CCD pendular camera head, PAL or NTSC, 12.3 or 15 mm integrated coupler

SOPRO
165

1 CCD camera
with 120 W* LED light source

DUU
BY SOPRO



The perfect match between light and image

- **Fully automatic**
- **Great image quality**
- **User-friendly**
- **Smart and automated functions thanks to iCe™ technology**
- **Compatible with both rigid and flexible endoscopes**
- **Eco-friendly and powerful LED light source**



*equivalent to 120 Watts Xenon light Source

SPECIFICATIONS OF THE CAMERA CONTROL UNIT (CCU)

- Automatic video settings detection
- Automatic electronic shutter (1/50 à 1/100 000)
- Video enhancement
- Electronic anti-moire filter for flexible endoscopes
- White balance with **iCe** feature
- Continuous service

SPECIFICATIONS OF THE LIGHT SOURCE

- LED technology
- Light intensity of a 120W Xenon light source
- LED lifetime: up to 50 000 hours
- Color temperature: $\geq 4\ 500^{\circ}\text{K}$

SPECIFICATIONS OF THE CAMERA HEAD

- Sensor: CCD 1/4" high sensitivity
- Resolution: (752 x 582) PAL ; (768 x 494) NTSC
- Definition: 500 lines
- Sensitivity: 2 lux
- Signal / noise ratio: 52 dB
- Ergonomic focus ring
- Free scope rotation and locking system
- C-mount
- 2 ergonomic buttons
- Waterproof for cold disinfection
- Dimensions: L: 87 mm ; Ø: 30 mm
- Weight: 210 g
- Cable length: 3 meters

GENERAL SPECIFICATIONS

- Dimensions (W x H x D) : 300 x 66 x 300 mm
- Weight: 2400 g
- 1 Y/C video output (1 Vcc & 0.3 Vcc / 75Ω Sync Negative)
- 1 composite video output (1 Vcc / 75Ω)
- Power supply: (100-230 VAC ~ ; 50/60 Hz)
- Power consumption: 86 VA
- Two T 800 mA - 250 V fuses (only fu marked UL)
- Safety: Class 1, BF type applied part

REGULATORY & ENVIRONMENT

- 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
- 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.

Art.N°	Description
S_K16_1000	Pack DUO with CCU + PAL sensor + 18.5mm coupler
S_K16_1001	Pack DUO with CCU + NTSC sensor + 18.5mm coupler
402046	Olympus light source adapter for DUO by Sopro

SOPRO
181

1 CCD USB camera

UBICAM
digital diagnosis set



The best USB solution

- Digital image quality
- User-friendly
- Smart and automated functions thanks to iCe^{map} technology
- Compatible with both rigid and flexible endoscopes
- Direct USB2.0 link



SPECIFICATIONS OF THE USB CAMERA HEAD

- Sensor: CCD 1/4" high sensitivity
- Automatic video setting detection
- 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 endoscopes
- 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 for cold disinfection*
- Continuous Service

RECOMMENDED COMPUTER CONFIGURATION FOR SOPRO IMAGING SOFTWARE

- 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 & ENVIRONMENT

- 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
- Operating Temperature range: +10°C / +35°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_181_0011	UBICAM, USB2 stand alone solution, PAL, C-mount, SIM software (test version)
S_181_0015	UBICAM, USB2 stand alone solution, NTSC, C-mount, SIM software (test version)
S_081_0001	17mm coupler, C-mount, scope holder
505026	Sopro Imaging Medical license
S_K10_2006	UBICAM PLUS PAL: Ubicam + coupler + one licence of Sopro Imaging Medical software
S_K10_2007	UBICAM PLUS NTSC: Ubicam + coupler + one licence of Sopro Imaging Medical software

* see user manual for more information

UBIPACK
ENT
UBIPACK
GYN

Full consulting room pack



UBiled



sopro
imaging



A unique concept

- All in one package designed for consulting room
- Outstanding image quality
- Easy to use
- Powerful imaging software
- Better communication with patients





UBIPACK_® GYN

Art.N°	Description
S_K10 2000	UBIPACK GYN PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + Hysteroscope 2,7 mm 30° + Hysteroscopy sheath 14,9Fr double rotative stopcock WK channel 5Fr
S_K10 2002	UBIPACK GYN NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + Hysteroscope 2,7 mm 30° + Hysteroscopy sheath 14,9Fr double rotative stopcock WK channel 5Fr
S_K10 2001	UBIPACK GYN PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + Hysteroscope 2,7 mm 30° + 10,5Fr diagnostic sheath
S_K10 2003	UBIPACK GYN NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + Hysteroscope 2,7 mm 30° + 10,5Fr diagnostic sheath



UBIPACK_® ENT

Art.N°	Description	Art.N°	Description
S_K10 1000	UBIPACK ENT PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 0°	S_K10 1007	UBIPACK ENT NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 70°
S_K10 1001	UBIPACK ENT NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 0°	S_K10 1008-	UBIPACK ENT PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + otoscope 4.0 mm 0°
S_K10 1002	UBIPACK ENT PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 30°	S_K10 1009	UBIPACK ENT NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + otoscope 4.0 mm 0°
S_K10 1003	UBIPACK ENT NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 30°	S_K10 1010	UBIPACK ENT PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + otoscope 3.0 mm 0°
S_K10 1004	UBIPACK ENT PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 45°	S_K10 1011	UBIPACK ENT NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + otoscope 3.0 mm 0°
S_K10 1005	UBIPACK ENT NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 45°	S_K10 1013	UBIPACK ENT Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler with Ulyss - PAL + Ubiled + light cable + Ulyss
S_K10 1006	UBIPACK ENT PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable + sinuscope 4.0 mm 70°	S_K10 1014	UBIPACK ENT Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler with Ulyss - NTSC + Ubiled + light cable + Ulyss

Art.N°	Description
S_K10 1015	UBIPACK PAL Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable
S_K10 1016	UBIPACK NTSC Camera Ubicam + one licence of SOPRO IMAGING Medical + coupler + Ubiled + light cable

SOPRO imaging

Medical Imaging software



A powerful software

- **A unique communication tool**
- **Dedicated to diagnosis aid and patient management**
- **Multi-languages format**
- **Sleek new design en enhanced ergonomics**

RECOMMENDED COMPUTER CONFIGURATION

Windows® minimum configuration required

- Operating system: Windows XP Pro SP3
- Processor: Intel® Pentium IV – 1.3GHz
- RAM: 512MB
- Hard disk: 250GB
- USB ports: 2 USB2 Hi-Speed ports
- Graphic card: 32MB RAM unshared memory compatible DirectX 9
- USB Chipset: Intel® or NEC® / RENESAS®
- Screen resolution: 1024 x 768

Windows® recommended configuration

- Operating system: Windows 7 Pro SP1
- Processor: Intel Core 2
- RAM: 2GB
- Hard disk: 1TB
- USB ports: 4 USB2 Hi-Speed ports
- Graphic card: Chipset Nvidia® or ATI®
- 512MB unshared memory compatible DirectX 9
- USB Chipset: Intel or NEC / RENESAS
- Screen resolution: 1280 x 1024 or more

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, ...

Art.N°	Description
505026	Sopro Imaging Medical license
990145	CD-ROM: Sopro Imaging medical software

Accessories for video cameras

Art.-No.

S_097_0001

24mm HD coupler

C-mount, scope holder with locking capacity for S_397 camera head

weight : 60g

waterproof

Art.-No.

S_097_0002

24mm HD coupler

C-mount, scope holder with locking capacity for S_397 camera head

with high torque focus ring for Arthroscopy

weight : 60g

waterproof



Art.-No.

S_067_0004

22mm coupler

C-mount, scope holder with locking capacity, for S_169 & S_162 camera heads

weight : 44g

waterproof

Art.-No.

S_067_0002

22mm coupler

C-mount, scope holder with locking capacity, for S_169 & S_162 camera heads

with high torque focus ring for Arthroscopy

weight : 44g

waterproof



Art.-No.

S_367_0002

18mm HD coupler

C-mount, 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, scope holder with locking capacity, for 367 & S_368 camera heads

with High torque focus ring for Arthroscopy

weight : 54g

waterproof



Art.-No.

S_084_0001

18,5mm coupler

C-mount, scope holder with locking capacity for S_165 & S_184 camera heads

weight: 20g

waterproof



Accessories for video cameras

Art.-No.

S_701004

18mm Beamsplitter 90°

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



Art.-No.

S_413024

16-34mm HD Zoom coupler

C-mount, scope holder for all camera heads waterproof



Art.-No.

700145

USB2 Amplifier 5 meters long for S_181



Art.-No.

700206

Medical Keyboard

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



Art.-No.

302027

Storz/Olympus Adapter

for Flexible Scopes



Art.-No.

302032

Pentax Adapter

for Flexible Scopes



Art.-No.

302030

Fujinon Adapter

for Flexible Scopes



Accessories for video cameras

Art.-No.

009002

Footswitch for S_162 with USB2 output (jack connector)



Art.-No.

009009

USB footswitch for Sopro Imaging Medical

Art.-No.

700381

USB2 Amplifier (5m) for UBICAM

Art.-No.

002158

Small USB extension (0.8m) for UBICAM

Art.-No.

S_397_1000

Communication kit for SOPRO 397 and SOPRO 640 (45L & 30L)

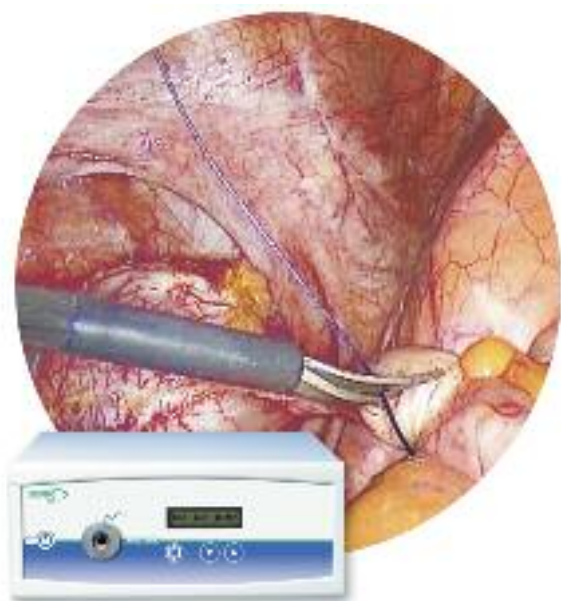


Art.-No.

700337

Jack-USB adaptor for S_184 camera and Sopro Imaging Software





3 • **LIGHT SOURCES**

SOPRO 230, 218 and 210 Xenon light sources	p32
SOPRO 284 180W LED light source	p34
SOPRO 281 100W LED light source	p36
Light sources accessories	p38
Light cables	p38
Light cables accessories	p39

SOPRO
230

SOPRO
218

SOPRO
210

Xenon light sources



High intensity light sources

- Anti blooming system with light cable detection
- Display of light intensity (0-100%) and age of the bulb
- Infrared filter protection for light cable



COMMON SPECIFICATIONS

- Antiblooming system with light cable detection
- Light intensity adjustment with touch buttons
- Light intensity and bulb 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
- Bulb lifetime: 500 hours
- Dimensions: D: 300mm; W: 311mm; H: 125 mm
- Weight: 5 kg
- Power supply: (100 - 230 VAC ~ / 50 - 60 Hz)
- 2 Fuses T 4A. (UL/CSA only)
- Continuous service

DEDICATED SPECIFICATIONS

	Sopro 230	Sopro 218	Sopro 210
Nominal operating power	300W	180W	100W
Color T°	6200°K	5800°K	5800°K
Power consumption	485VA	450VA	240VA

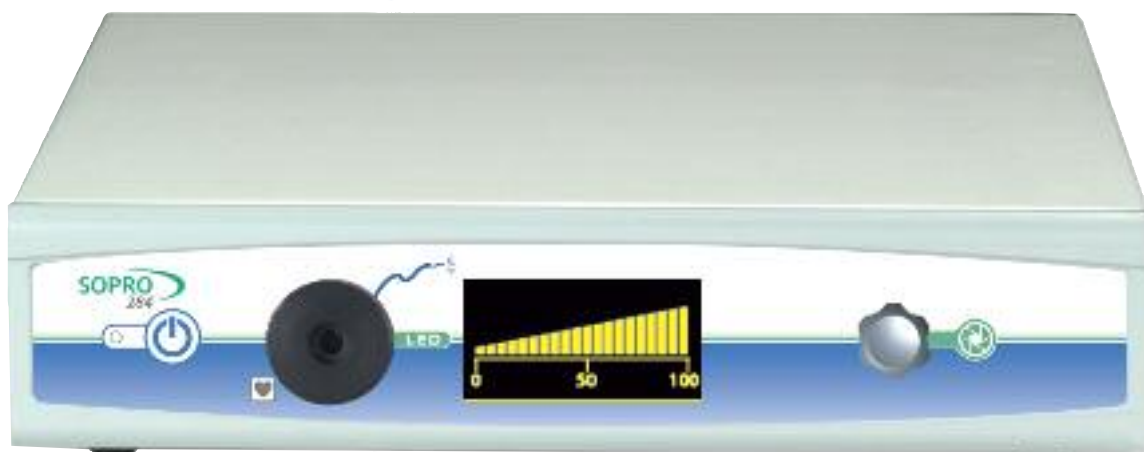
REGULATORY & ENVIRONMENT

- 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
- 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
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
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
See us	300, 180 and 100W, EU or US power cords, Wolf® adapter

SOPRO 284

180W* LED light source



Brighten your world!

- As powerful as a 180W Xenon light source
- LED lifespan up to 50,000 hours
- Daylight color temperature** for optimum contrast
- OLED data display



*equivalent to 180 Watts Xenon light Source

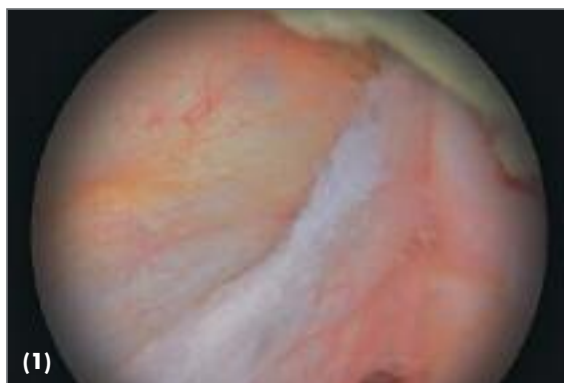
**6500°K

SPECIFICATIONS

- LED technology
- Light intensity of a 180W Xenon light source
- Color temperature: 6 500°K
- LED lifetime : up to 50.000h
- Intuitive adjustment of the light intensity
- Light intensity memory
- Anti-blooming feature with light cable detection
- Standby mode
- Electronic iris
- Automatic over temperature protection
- 2.7" OLED screen
- Size (D x W x H) : 300 x 300 x 66 mm
- Weight : 3 000 g
- Power consumption: 140 VA
- Input voltage: 100-230 VAC / 50-60 Hz
- Compatible with Storz type light cables (Olympus in option)
- Continuous service

REGULATORY & ENVIRONMENT

- 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
- 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.



Comparison of homogeneity of light between a Xenon (1) and the Sopro 284 LED (2) light source

Art.N°	Description
S_284_0001	LED light source (light intensity of a 180W Xenon light source) - EU power cord - Storz type
S_284_0002	LED light source (light intensity of a 180W Xenon light source) - US power cord - Storz type
S_284_0003	LED light source (light intensity of a 180W Xenon light source) - EU power cord - Olympus type
S_284_0004	LED light source (light intensity of a 180W Xenon light source) - US power cord - Olympus type

SOPRO
281

100W* LED light source

UBiled



Designed for consulting room

- **Well designed and compact**
- **Accurate colors depiction**
- **Uniform light**
- **LED lifespan up to 50 000 hours**



*equivalent to 100 Watts Xenon light Source

SPECIFICATIONS

- LED technology
- Light intensity of a 100W Xenon light source
- LED lifetime: 50.000 hours (in advised conditions of use)
- Color temperature: > to 4500°K
- Light cable input: Storz only
- Stand-by mode with light intensity memory
- 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 & ENVIRONMENT

- 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
- 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

402046 Olympus ® connector for S_281 LED light source

Light source accessories

Replacement Bulbs

Art.-No.

006003

300W Xenon bulb

Art.-No.

006005

180W Xenon bulb



Art.-No.

006004

100W Xenon bulb



Art.-No.

006009

225W Halogen bulb



Light cables



Ø	L.	Art.-No.
4.8mm	3	S_700382
	2.3	S_700384
3.5*	3	S_700216
	2.3	S_700215

*For scope diameter $\leq 4\text{mm}$

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

Light cables accessories

Endoscope side connectors

Art.-No.

700051

Storz/Olympus



Art.-No.

700043

Wolf/S&N



Art.-No.

700048

Acmi/Stryker



Light source side connectors

Art.-No.

700044

Storz



Art.-No.

700045

Olympus



Art.-No.

700046

Wolf/S&N



Art.-No.

700047

Acmi/Stryker







4 • INSUFFLATORS

SOPRO 640 - 45L, 30L and 20L insufflatorsp42

Accessoriesp44

SOPRO
640

Insufflators



icons

The best option on the market for safer surgery

- **Management of the insufflator from the camera head**
- **Feedback of key data on the monitor**
- **Display of the remaining time before the end of the CO2 bottle**
- **Enhanced security with no loss of pressure, no cross contamination and no risk of mis programming**



COMMON 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 insufflation
- Blow-off pressure: 0 to 24 mmHg (accuracy of 1mmHg)
- 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

DEDICATED SPECIFICATIONS

	45L device	30L device	20L device
Maximum flow	45L/min	30L/min	20L/min
CO2 bottle purge	✓	✓	✓
Clear messages	✓	✓	✓
Preventive maintenance message	✓	✓	✓
Bottle & wall supply	✓	✓	
Autonomy feature	✓	✓	
External control via SORO 397 camera head	✓	✓	

REGULATORY & ENVIRONMENT

- 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
- 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 feature
S_640_4004	45 L - US Power Cord - with autonomy feature
S_640_3005	30 L - EU Power Cord - with autonomy feature
S_640_3008	30 L - US Power Cord - with autonomy feature
S_640_2002	20 L - EU Power Cord
S_640_2004	20 L - US Power Cord

Accessories

Art.-No.

607103L

Sterile single use insufflation tubing

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



Art.-No.

607043L

Reusable insufflation tubing

autoclavable



Art.-No.

016006L

Sterile viral CO2 filter

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



CO2 connection

Art.-No.

017036L

Flexible hose for high pressure bottle (60bars)

US-DIN 477-1, n°6, 1 meter FOR EUROPE

Art.-No.

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.

017023

Pin Index connection

for DIN 477-1 n°6

Art.-No.

017034

Pin Index connection

for UNF 7/16" US









5 • FLUID MANAGEMENT

SOPRO 670 - Irrigation and suction pump for Arthroscopyp48

SOPRO 672 - Irrigation pump for Gynecologyp50

SOPRO 673 - Irrigation and suction pump for Laparoscopyp52

SOPRO
670

Irrigation and suction pump
for arthroscopy



The perfect fluid management device

- Irrigation and suction flow management
- Quick leakages compensation
- Intuitive navigation system with wide LCD interface and thumbwheel
- Pneumatic foot remote control
- Noiseless



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 & ENVIRONMENT

- 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
- 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.

ACCESSORIES

Art.-No.

S_670_003

Sterile single use irrigation / suction tubing set
(15 pieces)



Art.-No.

009007

Pneumatic remote control



Art.-No.

700268

Lagoon 250, suction regulator

0 to -200mbar (0 to -150mmHg), maximum flow 20l/min,
NF connection, autoclavable 134°C

Art.-No.

700269

Bacteriological filters
(100 pieces)



Art.N°

Description

S_670_0001 Irrigation and suction pump for arthroscopy - EU Power Cord

S_670_0002 Irrigation and suction pump for arthroscopy - US Power Cord

SOPRO 672

Irrigation pump
for gynecology



Proven effectiveness

- **Automatic pressure and flow control for optimal view during uterus dilatation**
- **Fluid balance to reduce intravasation risk***
- **Permanent intra-uterine pressure monitoring**
- **Short learning curve**



*optional

SPECIFICATIONS

- Pressure range: 15-150 mm Hg
- Flow range: 30-500 ml/min
- High pressure safety: 200 mm Hg
- Power supply: 100-250 V~/50-60Hz
- Max. power consumption: 45 VA
- Max. current consumption: 100 V/60 Hz: 289 mA
- 110 V/60 Hz: 310 mA
- 240 V/50 Hz: 190 mA
- Classifications: Protection Class I, Type BF, IP 41
- Dimensions (w x h x d): 265 x 137 x 390 mm
- Weight: approx. 4 kg

REGULATORY & ENVIRONMENT

- 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
- 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.

ACCESSORIES

Art.-No.

700402

Reusable Tube set, 20 uses (10 pcs)

Art.-No.

700401L

Sterile Tube set with Luer Lock connection, disposable (10 pcs)

Art.-No.

700403L

Sterile Tube set with safe Lock connection, disposable (10 pcs)



Art.-No.

700404L

Tube set for outflow, disposable (10 pcs)

Art.-No.

700405

Bottle scale, (for fluid balance)

Art.-No.

700425

Bemis container 3L, (2 pcs)



Art.N°

Description

S_672_0001

Irrigation pump for Gynecology - EU power cord

SOPRO 673

Irrigation and suction pump for laparoscopy



Simple and accurate

- Simple and intuitive use
- Easy loading of the tubing
- High safety through a specific pressure control
- Suction for liquid and/or gas included
- Noiseless



SPECIFICATIONS

- Max. flow rate irrigation : 1.8 l/min
- Max flow rate suction : 1.8 l/min
- Max pump capacity : 400 mmHg
- Suction : Between -50 kpa and -60 kpa
- Suction noise level : 57 dB(A)
- Power supply : 100-240V~/50-60Hz
- Main fuse : T 0.5 A – T10 A slow blow, IEC 127/UL recognized
- Max. power consumption : 55 VA
- Max. current : 100V : 500 mA
115V : 440 mA
230V : 230 mA
- Safety : Manufactured and tested acc. to EN 60601-1/IEC 60601-1, EMC : EN 60601-1-2 / IEC 60601-1-2
- Dimensions (w x h x d) : 280 x 137 x 408 mm
- Weight : approx. 5.9 kgs

REGULATORY & ENVIRONMENT

- 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
- 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.

ACCESSORIES

Art.-No.
700401L

Sterile tube set with luer lock connection
disposable (10 pces)

Art.-No.
700403L

Sterile tube set with safe lock connection
disposable (10 pces)

Art.-No.
700402

Reusable tube set
20 uses



Art.-No.
700421

Tube set suction, reusable
20 uses

Art.-No.
700422

Tube set vacuum, reusable
20 uses



Art.-No.
700423L

Hydrophobic filter

Art.-No.
700425

Bemis container, (2 pces)

Art.-No.
700424

Coil of wire for Bemis container



Art.N°

Description

S_673_0001

Irrigation and suction pump for laparoscopy





6 • SHAYER

SOPRO 684 - Shaver handpieces	p56
SOPRO 684 - Shaver control unit	p57
Shaver blades and burs	p58
Accessories	p59

SOPRO 684



Shaver handpieces

- High torque motor
- Superior cutting performance
- Twin buttons for simplicity
- Lightweight handpiece
- Smooth control of suction flow
- Multidirectional shaver blade loading

Multipurpose handpiece

- Drill/driver/reamer and saw driving capabilities
- Automatic attachments recognition activating the appropriate settings

SPECIFICATIONS

- 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

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

REGULATORY & ENVIRONMENT

- 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
- 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

Art.N°

Description

S_684_8002 Sopro 684 Multi purpose handpiece

S_700274 Multi purpose handpiece power cable

SOPRO
684

Shaver
for arthroscopy



Control unit

- **Double input to drive simultaneously shaver and multipurpose handpieces**
- **Precise speed adjustment with foot pedal**
- **Front foil controls and handpiece buttons**

SPECIFICATIONS






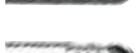
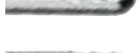

- Foot switch with variable speed selection
- Direction: Selection for Forward/Reverse/Oscillate and Safe Modes
- Tool Select: Selects power output socket on the control unit
- Speed Control: Variable speed control of selected Instrument
- Foot Guard: Protects against accidental actuation of the foot 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
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	725 000 L	735 000 L	742 000 L	755 000 L	765 000 L
	Agressive resector	725 001 L	735 001 L	742 001 L	755 001 L	765 001 L
	Rapid resector	-	-	742 002 L	755 002 L	-
	Rapid aggressive resector	-	-	742 003 L	755 003 L	-
	Meniscus cutter	-	735 002 L	742 004 L	755 004 L	-
	Agressive meniscus cutter	-	735 003 L	742 005 L	755 005 L	-
	Rapid meniscus cutter	-	-	S742 006 L	755 006 L	-
	Side cutter	-	735 004 L	742 007 L	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	-	735 005 L Ø 2.5 mm cutter	742 008 L Ø 3 mm cutter	755 008 L Ø 4 mm cutter	765 002 L Ø 5 mm cutter
	Oval bur	-	-	-	755 009 L Ø 4 mm cutter	765 003 L Ø 5 mm cutter
	Tapered bur	-	-	-	755 010 L Ø 4 mm cutter	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	-	-	742 009 L	755 011 L	-
	Agressive resector	-	-	742 010 L	755 012 L	-
	Side cutter	-	-	742 011 L	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.

700247

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

Speed: 0 - 1100 rpm

Cannulation: 3.1 mm



Art.-No.

700248

Quick release chuck A.O.Synthes/ASIFTM

Speed: 0 - 1100 rpm

Cannulation: 2.0 mm



Art.-No.

700249

Quick release sagittal saw

Speed: 0 - 21000 cycles/min



Art.-No.

700250

Sagittal saw

Speed: 0 - 18000 cycles/min



Art.-No.

700251

Reciprocating saw

Speed: 0 - 12000 cycles/min



Art.-No.

700252

Wire driver

Speed: 0 - 1100 rpm

Cannulation: 0.6 - 1.8 mm

Art.-No.

700260

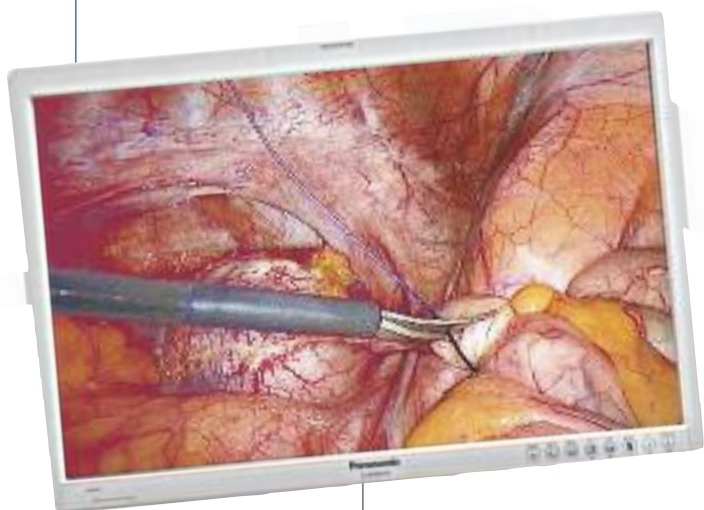
Pin driver

Speed: 0 - 1100 rpm

Cannulation: 1.8 - 3.2 mm



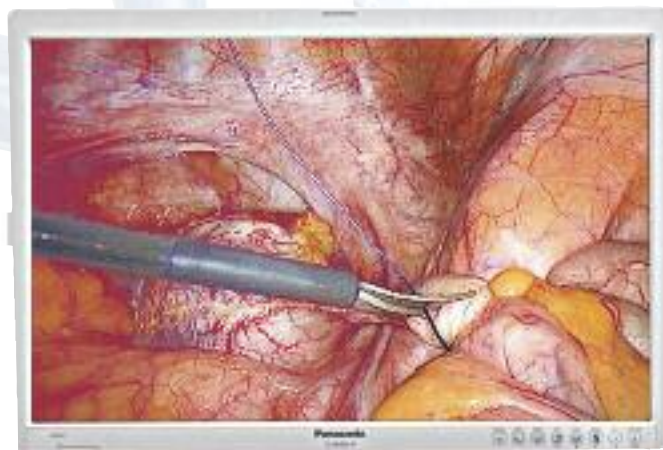




7 • MONITORS

Operating room	p62
PANASONIC® 26" FULL HD medical grade surgical display	
BARCO® 19" HD medical grade surgical display	
Consulting room	p64
NEOVO® 22" FULL HD diagnostic display	
Accessories	p65

Operating room



PANASONIC 26" FULL HD medical grade surgical display

- **Full HD widescreen**
- **High quality colors and accurate image reproduction**
- **Multi HD inputs/outputs**
- **Ergonomic and hygienic design optimized for operating room use**

SPECIFICATIONS

- Viewing area (diagonal) : 26" – TFT AM LCD technology
- Resolution (H x W) : 1920 x 1080
- Luminance : 500 cd/m²
- Contrast ratio : 1400:1
- Response speed : 8ms
- Video inputs : 2 x DVI-D, 1 x HD-SDI, 1 x RGB, 1 x S-video, 1 x Comp.
- Video outputs : 1 x DVI-D, 1 x HD-SDI, 1 x RGB, 1 x S-video, 1 x Comp.
- OSD language : English / Spanish / Italian / German / French / Japanese
- Weight : 7.7 kg

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_700427

Panasonic 26" Full HD medical grade surgical display

Operating room



BARCO 19" HD medical grade surgical display

- **High-grade image quality**
- **Optimum viewing comfort**
- **Easy cleaning and disinfection**

SPECIFICATIONS

- Viewing area (diagonal) : 19" – TFT AM LCD technology
- Resolution (H x VV) : 1280 x 1024
- Aspect ratio : 5:4
- Luminance : 280 cd/m2
- Contrast ratio : 600:1
- Response speed : 14ms
- Video inputs
- Video outputs
- OSD language : English/Spanish/German/French
- Weight : 8.6 kg

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 19" HD medical grade surgical display

Company

Video cameras

Light sources

Insufflators

Fluid
management

Shaver

Monitors

Archiving
systems

Medical carts

Consulting room



NEOVO 22" Full HD diagnostic display

- **Full HD resolution**
- **Eco smart sensor for low power consumption**
- **Built-in speakers**
- **Highly resistant optical glass**

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_700545 NeoVO 22" Full HD diagnostic display

Accessories

Art.-No.

700057

Desktop stand for 19" Barco monitor
with VESA mounting

Art.-No.

700311

Protection glass for 19" Barco monitor

Art.-No.

700320

Extension cable for 19" Barco monitor
to be used with long arm medical cart

Art.-No.

700376

Extension cable for 26" Panasonic monitor
to be used with long arm medical cart

Company

Video cameras

Light sources

Insufflators

Fluid
management

Shaver

Monitors

Archiving
systems

Medical carts





8 • ARCHIVING SYSTEMS

USB medical recordersp68

DVD medical recorderp69

Medical recorders



USB medical recorders

- **Intuitive use**
- **Medical grade**



USB 300

Records high definition videos and still images from medical video sources to internal hard drive, external USB drive or network drive

SPECIFICATIONS

- LCD monitor: 2.5" , full color (for video confirmation only)
- Buttons: Sealed membrane, fluid resistant
- Video inputs: DVI, RGB (via adapter), HD-SDI, S-video, Comp
- Video outputs: DVI, RGB (via adapter)
- Footswitch: Hands-free capture – standard 3.5mm minijack
- Image formats: JPEG, TIFF, BMP, DICOM
- Networking: RJ45 10 / 100 / 1000 Ethernet
- Internal storage: USB flash drive, USB hard drive, network drive
- Video formats: H.264 / MPEG (1080, 720, NTSC, PAL)
- Dimensions: 240 x 211 x 63mm
- Weight: 1.8kg

USB 200

Records videos and still images from standard medical video sources to a USB flash drive or a USB hard disk

SPECIFICATIONS

- LCD monitor: 2.5" , color (for video confirmation only)
- Buttons: Sealed membrane, fluid resistant
- Video inputs: 1 x S-video, 1 x Comp
- Video outputs: 1 x S-video, 1 x Comp
- Video In/Out: PAL or NTSC formats
- Audio In/Out: Standard 3.5mm stereo phone jacks
- Footswitch: Hands-free capture - standard 3.5mm minijack
- Image formats: JPEG, TIFF, PNG, DICOM (upgrade required)
- Images sizes: 1024 x 768 ; 800 x 600 ; 640 x 480 pixels
- Video formats: MPEG2 (DVD quality)
- Medias: USB flash drives or external USB hard drive
- Dimensions: 240 x 200 x 63mm
- Weight: 1.7kg

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

Art.N°	Description
S_700211	M-USB 300 for full HD video and still images
009002	Foot remote control

Art.N°	Description
S_700091	M-USB200 for video and still images
009002	Foot remote control

Medical recorder



Medical grade DVD recorder

- **User friendly 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 • MEDICAL CARTS

Operating room	p72
Premium carts	
Basic carts	
Consulting room	p74
Accessories	p75

Operating room

Premium carts

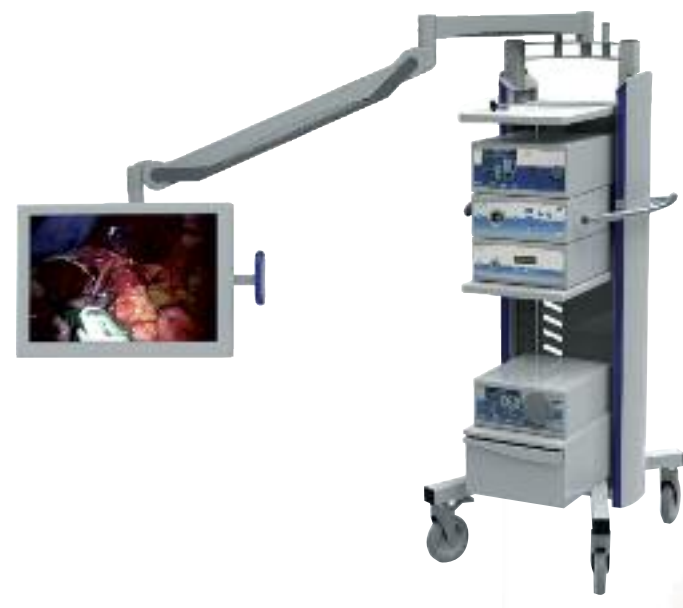


Long & short arms

SPECIFICATIONS

- 1x Adjustable shelf
- 1x Drawer
- 1x Long arm on central pivot
- 1x Short arm on central pivot
- 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



Long arm

SPECIFICATIONS

- 1x Adjustable shelf
- 1x Drawer
- 1x Long arm on central pivot
- 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

Operating room

Basic carts



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
- 1x CO2 bottle holder

Art.N°

Description

S_700277

Basic cart with fixed screen and short arm



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

Company

Video cameras

Light sources

Insufflators

Fluid
management

Shaver

Monitors

Archiving
systems

Medical carts

Consulting room



Ubicart

SPECIFICATIONS

- 1x 4 way Power strip
- 1 x Serum holder
- 1 x Camera holder
- 1 x Light cable holder
- 1x Isolation transformer (option)

Art.N°

Description

700362	UBICART including power strip, serum, camera and light cable holders.
700418	UBICART including power strip, serum, camera, light cable holders and isolation transformer
707039	Extra shelf (450 x 320 mm) for UBICART

Accessories

Art.-No.

700304
Flexible Scope holder fixed mounted on side cover

Art.-No.

700305
Serum holder fixed mounting crozz (on side cover)

Art.-No.

700306
Surcharge 2nd short arm on central pivot

Art.-No.

700307
Isolation transformer 1600VA/ 230VAC. incl. 5M Jobarco Careflex netcable and plugs

Art.-No.

700308
Mains cable with pot. balancing and pull relief 5m

Art.-No.

700309
Power cord 60cm IEC320-IEC320 (male/female)

Art.-No.

700310
Earth potential balancing cable. 2M

Art.-No.

700316
Mains supply guard (isolation guard - security system for transformer only)

Art.-No.

700317
Shelf 320x450

Company

Video cameras

Light sources

Insufflators

Fluid
management

Shaver

Monitors

Archiving
systems

Medical carts

Accessories

Art.-No.

700318

Camera holder

Art.-No.

700333

Bottle holder

Art.-No.

700359

Pull-out shelf 320x450 for keyboard

Art.-No.

700360

Cable hook

Art.-No.

700361

Foot switch panel for undercarriage





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.

Service

Worldwide service centres to ease and fasten the support of our complete product line.

R&D

A network of 50 engineers to foster on products innovations and new technologies.



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