



ENT Systems Sales - Service - Accessories - Showroom

ENT Camera Systems



Endoscopy camera system AC-10

Low-cost entry level model for rigid ENT endoscopy with digital signal processing.

- 1/2" Sony-CCD hyperpower head with 440.000 pixel in plastic case
- · 3 m cable with high quality LEMO plug
- Automatic gain control and high-speed shutter (1/100.000)
- · One-Touch Whitebalance Button
- Y / C and composite (USB 2.0 optional)
- Widerange power input 110/230 Volt, 50/60 Hz
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- "BF" application part



Endoscopy camera system AC-20

Standard endoscopy camera for rigid ENT endoscopy and laparoscopic procedures with digital signal processing.

- 1/2" Sony-CCD hyperpower head with 440.000 pixel in plastic case
- 3 m cable with high quality LEMO plug
- Automatic gain control and high-speed shutter (1/100.000)
- One-Touch Whitebalance Button
- AGC switchover
- Y / C and composite (USB 2.0 optional)
- Widerange power output 110/230 Volt, 50/60 Hz
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- · "BF" application part

Endoscopy camera system AC-30

Middle-class endoscopy camera for rigid and flexible ENT endoscopy with digital signal processing

- 1/2" Sony-CCD hyperpower head with 440.000 pixel in plastic case
- 3 m cable with high quality LEMO plug
- Automatic gain control and high-speed shutter (1/100.000)

- One-Touch Whitebalance Button
- AGC switchover
- · Window switchover
- · Anti-Moiré switching for flexible endoscopes
- Y / C and composite (USB 2.0 optional)
- Widerange power input 110/230 Volt, 50/60 Hz
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- · "BF" application part







Endoscopy camera system with 3,5" LCD device AC-40 HD



High class endoscopy camrea system for rigid / flexible ENT endoscopic and laparoscopic procedures wirh digital signal processing and integrated video recorder.

- 1/2" Sony-CCD hyper-power head with 440.000 pixel in plastic case
- 3 m cable with high quality LEMO plug
- 3,5" LCD control device
- Automatic gain control and high-speed shutter (1/100.000)
- One-Touch Whitebalance Button
- AGC switchover
- · Window switchover
- Anti-moiree switching for flexible endoscopes
- SDI outpu
- Widerange power input 110/230 Volt, 50/60 Hz
- Measurement: approx. W 280 mm x H 95 mm x D 245 mm
- · "BF" application part

Output:

Y/C and composite USB (USB 2.0 optional) YPbPr

Optional:

HDMI up to 1080p/i Memory with snapshot MP4 video recording / replay on USB-stick or SDD-harddisk

Tested CE according to MPG IEC 60601.

Optics and optical fibre cables are available optionally as well as an USB 2.0 output and PC based digital image documentation.

ENT Camera Systems





Endoscopy camera AC-10

USB 2.0 camera to connect with PC / Laptop

- 1/3" Sony-CCD sensor
- Resolution: 752 x 582 px / PAL (440.000 px)
- Scanning system: 2:1 interlaced
- Digital video output: USB 2.0 standard
- Windows XP / Windows 7 compatible
- Power: 5 V / 2.5 W / 300 mA
- 3 m cable
- Measurements: 90 mm x 32 mm without TV coupler
 125 mm x 55 mm with TV coupler
- Optional: Analogue video output CVBS, Y/C
- Compatible with Endostore Digital Picture & Documentation Software

Endoscopy camera AC-15 HD

USB 3.0 camera to connect with PC / Laptop

- 1/3" Sony-HD with 1.3 megapixel
- Resolution: 1280 x 1024 px
- CMOS sensor
- 30 fps
- 5 m cable
- Digital video output: USB 3.0 standard
- Windows XP / Windows 7 compatible
- Power: 5 V / 2.5 W / 500 mA
- Measurements: 90 mm x 32 mm without TV-coupler
 125 mm x 55 mm with TV-coupler
- Optional: HDMI out
- Compatible with Endostore Digital Picture & Documentation Software



Optics and Accessories





Endoscopy systems accessories

Our ACENDIS product range of rigid and flexible endoscopy offers compact objectives with different angles available in viewing directions of 0°, 30°, 70°. We also offer a range of compatible fibre optic cables and flexible camera cables, as well as everything from cleaning brushes to polyp traps.





ENT Light Sources



Halogen light source AH-240-2

Standard light source with two switchable outputs

- 2 x 150 W halogen light source with phase shift control
- Osram XENOPHOT lamps
- Smooth brightness regulation
- Durability > approx. 100 h
- · Thermo regulated LOW NOISE cooling
- Fibre optic connection "WOLF" compatible
- Power input 230 Volt, 50/60 Hz, 200 W
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- · "BF" application parts
- · Weight approx. 4 Kg



XENON lightsource **AX-100**

High performance light source with XENON light, single output

- OSRAM XENON lamp XBO-R-100W-45 by Osram
- · Daylight spectrum
- · Durability approx. 500 h
- Brightness regulation in 3 steps
- · Light output comparable to a 800 W halogen light source
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- Widerange power input 110 / 230 Volt
- "WOLF" fibre optic connection
- · "BF" application parts
- · Weight approx. 3 Kg



LED light source ALED-500

Modern LED standard light source, single output

- · Latest high power LED technology with daylight spectrum
- Light output comparable to 200 W halogen light (approx. 55000 Lux)
- Smooth brightness regulation
- Durability > approx. 10000 h
- · Thermo regulated LOW NOISE cooling
- Fibre optic connection "WOLF" compatible
- Power input 230 Volt, 50/60 Hz, 200 W
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- Widerange power input 110/230 Volt, 50/60 Hz, 65 W
- · "BF" application parts
- Weight approx. 4 Kg

It is possible to equip some of the light sources with air compressors and Olympus connector.

Tested CE according to MPG IEC 60601.

Optics and optical fibre cables are available optionally as well as an USB 2.0 output and PC based digital image documentation.





LED light source ALED-3

LED handheld light source

- LED: High-end power LED
- Length: 113 mm
- · Diameter: 30 mm
- Weight: 120 g
- · Light flux: 110 lm
- Battery: 1,5 V AA-Battery
- · Capacity: 2.6 Wh
- · Light ON time: ca. 3 h
- · Splashproof



LED light source ALED-5

LED handheld light source

- LED: High-end power LED
- · Length: 115 mm
- Weight: 130 g
- · Light flux: 210 lm
- Battery: 1 x AA Li-lon 3,7 V with USB charger / power supply
- · Capacity: 2.6 Wh
- · Light ON time: ca. 3 h
- Splashproof

LED light source ALED-500D

Modern LED standard light source, single output

- · Latest high power LED technology with daylight spectrum
- Light output comparable to 200 W halogen light (approx. 55.000 Lux)
- · Smooth brightness regulation
- Durability > approx. 10000 h
- Thermo regulated LOW NOISE cooling

- · Fibre optic connection "Wolf" compatible
- · "Lifetime" counter
- · Electronical light control with LED-intensity control
- Light cable sensor and "automatic off", if light cable is disconnected
- Widerange power input 110/230 Volt, 50/60 Hz , 65 W
- Measurements: approx. W 280 mm x H 95 mm x D 245 mm
- "BF" application parts
- · Weight approx. 4 kg





* It is possible to equip some of the light sources with air compressors and Olympus connector.

Tested CE according to MPG IEC 60601.

Optics and Accessories

Mobile rhino laryngoscopes

The new German-made fibre-optic nasopharyngoscope compoundlens optical system gives a crystal clear image.

The extremely thin entry tube is highly flexible and precise in less accessible regions.

The object being examined is illuminated by two light guides. The flexible entry tube moves precisely to the command of an ergonomically designed well-balanced handpiece. Standard connection is sealed from moisture.



High-definition medical screens

The screens are capable of displaying multiple image modalities and are designed for minimally invasive surgery. They are lightweight with flexible input design for easy installation, while proprietary factory colour-calibration ensures reliable, consistent, authentic image reproduction instantly. Our medical screens offer high-definition with exceptional contrast and true-colour reproduction, with outstanding image quality for better diagnoses.

They can display images from a large number of sources, such as flexible and rigid endoscopes, ultrasound, PACS, etc. and also have a fanless cooling system to minimize the risk of spreading airborne contaminants near the sterile field.



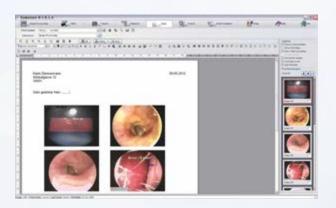


Software for digital picture documentation & archiving

Endostore is a software package we developed especially for the use in digital image filing. The software is compatible to all versions of Windows. Endostore offers its user the possibility to organise, to file and to edit the accumulated data from different image producing devices, such as endoscopy cameras or photo cameras (i.e. for microscopy), much faster and more flexible than before. It also helps you to relate those data to the matching patient. Every image can be optimised for many different uses without altering the original image. The data can be otimised for a high resolution print reproduction and afterwards be used with different adjustments for patient files, in presentations or for the circulation of the data to the patient or colleagues.

If a video camera is connected to your PC, you can watch the live video feed on your monitor (max. HD quality). For the comfortable saving of the images it is possible to connect a foot switch to your PC. Because of the integrated data base an easy and effective filing of the recorded images is guaranteed.

The relevant data is kept small to ensure the intuitive use of the software so that the flow of work in your medical practice gets optimised.







Endostore offers basic digital image processing functions such as sharpener, colour correction, edge enhancement, histogram equalization and colour adjustment. If this is not sufficient in some cases, it is possible to save the images in file formats compatible to common image editing programs such as Adobe® Photoshop® for further image processing.

Of course the complete recording and filing is also possible in HD quality.

otopront.









Instruments and accessories
Small instrument set ENT, economy

ENT treatment unit SMART

The mobile ENT unit SMART has been designed to meet the requirements of the widest range of applications. It may be used for inpatient bedside treatment, in operating theatres, outpatient clinics and in private practices.



otopront.



AUDIO

The AUDIO is an advanced audiometer which permits the performance of all classical diagnostic tests, such as air conduction, bone conduction and speech audiometry.

TYMP

An invaluable middle ear diagnosis by means of tympanometry and stapes reflex measurement is a standard procedure in a modern ENT practice. Otopront's TYMP meets all the technical requirements of an up-to-date middle ear analyzer: It works quickly and reliably and is remarkably easy to handle and care for in routine use.



VARIO Water

This caloric stimulator has been manufactured for use in both clinics and GPs practices. The high degree of automation shortens the time consuming aspects of vestibular examination. The rest, count and irrigating periods can be set exactly, or else appropriately adjusted, using the automatic timer and logic system.





DIGITAL 5

This ultrasound unit is an easy to operate and likewise user-friendly sinus echoscope with maximum sensitivity and noise suppression for diagnoses of the sinuses.



VAC 18

The portable suction unit VAC 18 is designed for versatile use in hospitals, practices and home care. The unit operates very quietly and the smooth outer surfaces facilitate ease of cleaning.



TE-OAE otopront

TE-OAE

As a world first, the Otopront TE-OAE is pioneering in the evaluation of otoacoustic emission measurements results. All measured data are classified according to signal statistic and signal dynamic features. The result is transmitted to an expert system in the form of parameter vectors.

PES 2

The PES 2 represents a new generation of highperformance systems for endoscopic diagnosis. The combination of sophisticated camera technology and digital bit map memory lends innovative support to medical procedures.





LED head light

The ultra bright and compact LED head light for powerful, co-axial illumination.





The SDM 60 is a high-quality and easily-maintained examination microscope that can be used in the operating theatre. It is equipped with a floor stand and has three levels of magnification.



SOM® 62

There are a variety of different floor stands available for the $\rm SOM^{\scriptsize @}$ 62 depending on its application.





SOM® 22



Showroom Operating Theatre



We offer the whole range of medical devices.



ACENDIS SHOWROOM Hannover Get a first look at our range in our showroon

Get a first look at our range in our showroom in Hannover, Germany. Our specialised personnel will answer your questions and help you to find the right products for your project.







Showroom Ultrasound and Endoscopy



We present the latest devices.





ACENDIS SHOWROOMS

Germany

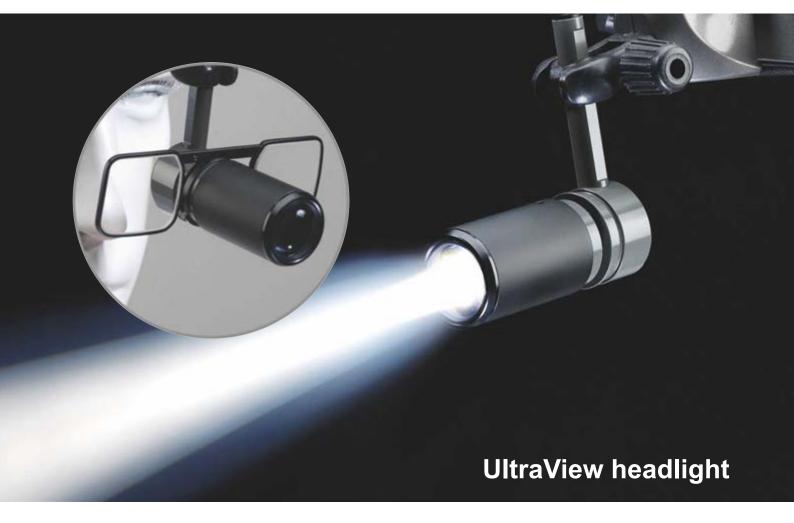
Visit our showrooms and those of our partners in Germany and Europe. We coordinate your appointments and accompany you to provide the ultimate in service, consulting and comfort.







Operating Light System





The UltraView headlight provides the surgeon with the ultimate in comfort, visibility and flexibility.

- Cordless technology
 - Excellent visibility
- Lightweight and comfortable
 - Three levels of brightness
 - Consistent white light





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