

Richard Wolf at MEDICA 2017 in Düsseldorf

(Knittlingen, 13 November 2017) Richard Wolf GmbH is presenting its key products for minimally invasive human medicine at MEDICA 2017. Richard Wolf will be exhibiting at booth A42 in Hall 10. The company has been a pioneer in endoscopy for more than 100 years and is known around the world for its innovative, high quality products. It makes use of its diverse expertise to develop and produce new and innovative medical products. The Richard Wolf's competence and expertise have been bundled with the aim of launching products such as the ENDOCAM Logic 4K Camera Platform onto the marketplace. This platform has been tailored to meet the requirements of modern endoscopy.

ENDOCAM Logic 4K – The new definition of sharp



The ENDOCAM Logic 4K Camera System optimizes image acquisition and processing for 4K – from the generation of the image at the tip of the endoscope to the reproduction on the high-resolution monitor. It is able to process the 4K signal in the original resolution without the need for extrapolation. Richard Wolf's powerful, energy-efficient LED light sources and new PANOVIEW ULTRA Endoscopes provide the necessary brightness for 4K resolution. The lightweight and ergonomic camera head is autoclavable. Special visualization modes can also facilitate better tissue differentiation depending on the situation. As a future-oriented, universal solution, the 4K platform can be used efficiently in all endoscopic specialties and can be incorporated within operating-room integration systems like core nova. The camera controller has been designed for flexible applications such that existing HD camera heads are also fully compatible. Prospective customers interested in this product can find comprehensive information online at: <http://4k.richard-wolf.com/>.

Holmium:YAG Laser MegaPulse 70+



Richard Wolf recently launched the Holmium:YAG Laser MegaPulse 70+ for minimally invasive therapy for Benign Prostatic Hyperplasia (BPH) and stone therapy.

Holmium Laser Enucleation of the Prostate (HoLEP) can be carried out easily with the power of 70 watts. The laser's high frequency and power allow it to also be used for fast, effective stone therapy, providing users with a high-speed system for stone lithotripsy.

This is a unique, special 200 μm Power Laser Fiber with a narrow diameter that generates a power output comparable to that of a 272 μm fiber. It is therefore ideal for flexible ureterorenoscopy. Automatic laser fiber recognition using RFID technology provides the user with convenient identification of the laser-fiber size. Recognition can also be carried out even when the laser fiber is in sterile packaging. You can find more in-depth information at <http://megapulse70plus.richard-wolf.com>.

Flexible Sensor Endoscopes for the ENDOCAM Logic 4K Platform



MAMBA vision

MAMBA vision is Richard Wolf's latest flexible sensor cystoscope and the third member of the vision family. It has an impressively thin and exceptionally flexible outer sheath with a deflection of 210° upward and downward. The large working and irrigation channel offers optimum irrigation. The MAMBA vision features outstanding image quality coupled with homogenous illumination by means of two distally integrated LEDs. It also offers six

integrated Special Imaging Modes (SIM) – digital algorithms for easier tissue differentiation.

- 210° deflection upward/downward
- 7.5 Fr. working and irrigation channel
- Atraumatic tapered tip with diameter of 11.5 Fr.
- Sheath diameter of 16.2 Fr.
- Two distally integrated LEDs
- Two programmable camera buttons capable of up to four different functions
- "Special Imaging Modes" (SIM) for superior tissue differentiation
- Ergonomic handle with axial camera cable

COBRA vision

The flexible dual channel sensor URS COBRA vision is the only flexible ureteroscope on the market with two working channels. They permit simultaneous use of two auxiliary instruments, which significantly reduces intervention times. In addition to outstanding image quality and integrated LED illumination, this instrument has a special laser shifter for fixation and precise positioning of the laser fiber.

- 270° deflection upward/downward
- Working and irrigation channel of 3.6 Fr.
- Laser channel 2.4 Fr. – for laser fibers up to 365µm
- Atraumatic, oblique distal tip made of stainless steel
- Sheath diameter of 9.9 Fr.
- Suitable for 11 Fr. ureteral access sheaths
- Ergonomic handle with axial camera cable
- Optimized irrigation with enlarged, central working channel for use with mono-irrigation
- Ideal position of laser and instrument channel facilitates easy collection of stone concretions
- The only flexible dual channel sensor URS on the market

BOA vision

The flexible single channel URS sensor BOA vision ranks among the pioneers in the market for video URS because it is currently the only sensor URS capable of being used in a ureteral access sheath > 9.5 Fr. The BOA vision impresses with its slim sheath diameter, detailed image quality, 3.6 Fr. working and irrigation channel, and 270° upward and downward deflection. An integrated LED provides optimum illumination without interfering light spots.

- 270° deflection upward/downward
- Working and irrigation channel of 3.6 Fr.
- The only sensor URS to fit in ureteral access sheath as small as 9.5 Fr.
- Atraumatic, oblique distal tip made of stainless steel
- Sheath diameter of 8.7 Fr.
- The slimmest flexible single channel Sensor URS on the market
- Ergonomic handle with axial camera cable
- Ideal for narrow ureters (e.g. pediatric urology)

Richard Wolf also supplies disposables required for endourological interventions. The portfolio of sterile disposable products can be used for the following:

- Percutaneous nephrolithotomy (PCNL)
- Flexible ureterorenoscopy & laser lithotripsy
- Semi-rigid ureterorenoscopy
- Cystoscopy

ENDOCAM Flex HD – The innovative imaging concept



Increasing cost pressures in hospitals are forcing institutions to achieve higher efficiency.

ENDOCAM Flex HD is a cost-effective, space-saving and user-friendly system. This compact and affordable camera solution enables hospitals and private physicians to carry out endoscopic treatments flexibly and cost-effectively.

Flexible sensor endoscopes compatible with the ENDOCAM Flex HD Camera have been designed to cover the variety of applications in urology. The BOA vision EF is suited for a number of urological interventions in the area of ureterorenoscopy thanks to its unique small diameter. The COBRA vision EF is the only flexible dual channel sensor URS on the market specifically designed for stone therapy.

The new flexible vision EF Sensor Cystoscope meets all the requirements for a modern and patient-friendly system. Particular features are the slim and flexible sheath, the superior image quality, and the homogeneous illumination provided by two distally installed, high-power LEDs. Thanks to this integrated LED illumination and automatic light control and focusing, an additional light source is not required. The user can “Plug & Play”, without having to white balance in advance.

The ENDOCAM Flex HD paired with the new flexible bronchoscopes (with distal sensor and LED illumination) delivers a first-class image of the respiratory tract. In addition, this revolutionary system from Richard Wolf delivers optimum results in pulmonology, from routine biopsies to complex interventions.

ENDOLIGHT Flex LED is the perfect complement to the ENDOCAM Flex HD as a low-maintenance LED light source. It expands the camera system’s areas of application to flexible endoscopes without integrated illumination and rigid endoscopes. With their compact, user-friendly designs, the two instruments provide the perfect unit. You can find detailed information at: <http://endocamflexhd.richard-wolf.com/>.

Richard Wolf Academy Prima Vista



The Richard Wolf Academy Prima Vista is a center of competence focusing on education and knowledge transfer. Specialists and generalists, instructors and learners, users and innovators all come together at the Richard Wolf Academy Prima Vista. The Richard Wolf Academy Prima Vista offers more than 100 events worldwide each year with more than 400 trainers and tutors.

The latest initiative by the Richard Wolf Academy Prima Vista will be presented at MEDICA 2017: “The Richard Wolf Academy Prima Vista has defined its objective as further optimizing seminars and training sessions for customers and partners. We will install a learning platform with the Prima Vista eAcademy that permits online and face-to-face training sessions to be dovetailed efficiently,” reported Volker Maute, Divisional Manager Sales and Marketing at Richard Wolf GmbH.

core nova – Operating room (OR) integration on any scale



Today, operating-room integration is standard for new-builds, conversions and renovation of operating theaters. However, there are often issues during continuous operation relating to whether and how systems of this type can be integrated. core nova from Richard Wolf offers a simple answer to these issues. Richard Wolf’s operating-room integration system adapts flexibly to the specific requirements of a hospital, whether positioned on an equipment cart or as a fixed installation.

Many functions of the integration system can be realized on a mobile equipment cart, which can be used for one or for several operating theaters. For example, device control or documentation in DICOM is possible with a mobile system.

core nova is a lean solution that does not require a technology room and only entails minimal cabling requirements. This is reflected in short installation times. If appropriate preparations are made, set-up can be carried out in less than a day. This is a major benefit, particularly during continuous operation or in the case of renovations and tight timetables.

The scalability of the system means it can be subsequently supplemented with additional functionality. The full scope of supply can then be implemented, including such features as convenient communication solutions and the integration of additional image sources.

Richard Wolf delivers individualized solutions with core nova. The simplicity of installation and application is superior to comparable systems. core nova achieves a new level of operating comfort.

Richard Wolf is a mid-sized medical technology company. It employs more than 1,500 employees around the world and maintains a global network of 14 subsidiaries and 130 foreign representatives. The company develops, manufactures and markets a large portfolio of products for endoscopy and extracorporeal shock wave treatment in human medicine. Integrated Operating Room Systems complete the product portfolio.

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