First flexible dual-channel laser uretero-renoscope
ger80 % more flow!
Up to now, laser lithotripsy with a flexible ureterorenoscope was often a complicated and time-consuming form of therapy. At Richard Wolf, we looked into the problems involved and then took on the challenge. The result was well worth the effort. What emerged was an instrument that solves all the problems encountered by the user when fighting with flexible laser lithotripsy.

- Separate working channel for laser fibers to max. 365 µm
- Simple control of the laser fiber with special laser shifter
- Best picture quality due to option of irrigation through 2 channels at the same time or continuous irrigation
- Less damage to the working channel caused by laser fibers
- Faster working without constantly changing between laser fibre and stone basket

During laser lithotripsy with a standard flexible ureterorenoscope, the laser fiber must be continuously exchanged for a tipless basket to retrieve the stone fragments from the kidney. The fiber must be reinserted repeatedly to disintegrate further concretions. This procedure needs to be repeated time and again not only costing time but also causing frustration and wear and tear on the instrument.

Here, our new flexible ureterorenoscope "The COBRA" with 2 large irrigation and instrument channels is a considerable help. One channel is primarily for a laser fiber but can also be used exclusively as an irrigation channel. A further channel provides not only the option of continuous irrigation but also allows use of a stone basket, forceps and similar instruments up to 3 Fr. This channel can, of course, also be used for irrigation. This achieves a high-flow irrigation.

A special laser shifter allows a laser fiber up to max. 365 µm to be used and adjusted. The laser fiber is then aligned and fixed flush with the distal instrument tip. The instrument with the fiber (depending on the fiber diameter), in place can nevertheless be deflected up to 270° in either direction. Once the stone has been localized, the laser fiber can be advanced until it makes contact with the stone and then activated. Following successful lithotripsy, a tipless basket can then be extended from the second channel to retrieve the stone fragments. Stones held in the basket can also be easily fragmented with the laser.

The two irrigation and working channels can be used either for continuous irrigation or both together with auxiliary instruments inserted for simple irrigation.

"The COBRA" can, of course, be used with all commercially available camera systems.

Special laser shifter
Once the stone is reached, the laser fiber can be advanced to make contact using the special laser shifter and then activated. It can be retracted back into the working channel when it is no longer needed.

270° deflection
Full deflection is possible even with laser fibers to 272 µm from Richard Wolf and with a 1.5 Fr. basket supplied by Dormia.

Brake mechanism / fixation
Brake mechanism for locking the instrument tip in the required position.
Advantages:
- Best picture quality thanks to continuous irrigation
- Separate working channel for laser fibers
- Special laser shifter for more effective work
- Fewer repairs due to fixed laser fiber
- Maximum reduction in time due to simultaneous use of laser fiber and stone basket
- Brake mechanism for locking the instrument tip
- Extremely straightforward handling of the laser shifter

Comparison of the standard instrument with "The COBRA"
Despite the use of two auxiliary instruments, there is still relatively greater irrigation performance than with a standard instrument without auxiliary instruments inserted.

Ideal Partner:
Our new MegaPulse 30+ Holmium: YAG Laser Systems are supplied in the small and compact version as a desktop or alternatively with the same performance as a mobile minitower.

max. 30 watts
max. 4.0 joules
max. 25 hertz

*for use with a 230 µm laser fiber
First flexible dual-channel laser uretero-renaloscope

Technical data:
- Distal tip: 6 Fr.
- Sheath: 9.9 Fr.
- Number of working channels: 2
- Size of working channels: each 3.3 Fr.
- Deflection: 270° up, 270° down
- Working length: 880 mm
- Angle of view: 0°
- Angle of view: 85°
- Eyepiece: Adjustable eyepiece with dioptre compensation
- Control lever: With position lock at 0° and extended instrument tip and brake mechanism for locking in position
- Endocamera: Compatible with all commercially available camera systems

Recommended devices:
- MegaPulse Desktop 30+ Set
- Comprising:
  - MegaPulse Desktop 30+ (2286001), door contact connector (2286520), 2 x water filter (2286521), 1 x laser safety glasses (2286522), laser stripping tool (2286523), ceramic scissors (2286524), key set (2286525) and foot-switch (203012) ........................................................................22860010
- MegaPulse Tower 30+ Set
- Comprising:
  - MegaPulse Tower 30+ (2286002), door contact connector (2286520), 2 x water filter (2286521), 1 x laser safety glasses (2286522), laser stripping tool (2286523), ceramic scissors (2286524), key set (2286525) and foot-switch (203012) ........................................................................22860020
- Laser fibers
  - for kidney stones with MegaPulse 30+ laser, fiber diameter 200 µm, packed singly, sterile disposable fibers ...........................................487501200
  - reusable fibers ...........................................487501200
- Laser fibers
  - for kidney stones with MegaPulse 30+ laser, fiber diameter 272 µm, packed singly, sterile disposable fibers ...........................................487501272
  - reusable fibers ...........................................487501272
- Uro Pump 2224
  - Pump for irrigation and continuous pressure and flow in upper urinary tract ...............................................................22400111
- Suction Pump 2207
  - Pump for continuous aspiration ...............................................................2207.0011
- CCD Endocam Controller 5520 Set
  - incl. autoclavable camera head with integrated zoom lens 11 - 26 mm also usable with standard camera heads ..............................................85520.2122
- optional
- Recommended accessories:
  - Biopsy forceps, both jaws opening WL = 920 mm, 3 Fr. .................................................................829.601
  - Grasping forceps, both jaws opening WL = 920 mm, 3 Fr. .................................................................828.651
  - Flexible button electrode for coagulation WL = 920 mm, 3 Fr. .................................................................8741.80
  - Attachment with instrument port ...........................................................................................................7305.782
  - Biopsy valve retainer for simple introduction of probes and auxiliary instruments ...........................................7265.851
  - Sealing valve for automatic sealing (pack of 20) .........................................................................................15114.068
  - Luer sealing cap for closing the 2nd Luer connector .......................................................................................887.00
  - Adapter for machine leak testing ...........................................................................................................163.905
  - Light cable Fiber bundle Ø 2.5 mm ..........................................................8061.263
  - optional
  - Light cable Fiber bundle Ø 2.5 mm, with 90° angled instrument attachment ..................................................8062.251

For sterilization:
- Cleaning set V (2 sets recommended) with double luer lock tube connector for flexible laser uretero-renaloscopes ........................................163910

New

Sterisafe® DURO A3 Set,
- consisting of:
  - Sterisafe® DURO A3 (382031003), Toolsafe® lattice base (382031101),
  - for plasma sterilization with disposable filter for H₂O₂ (pack of 100, 382031401) ..................................................38203200
  - for EO and FA with disposable filter for EO and FA (pack of 100, 382031501) ..................................................382032100

Flat monitor 24" for a brilliant endoscopic image ..........................................................5370.019

Pedestal ..........................................................................................................................5370.019

Specifications subject to change without notice.