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spirit of excellence

Feel the
 difference

Scan with RIWO AR



red dot winner 2020

RIWO 
D-URS

Re-thinking Ureteroscopy –
 the best of both worlds

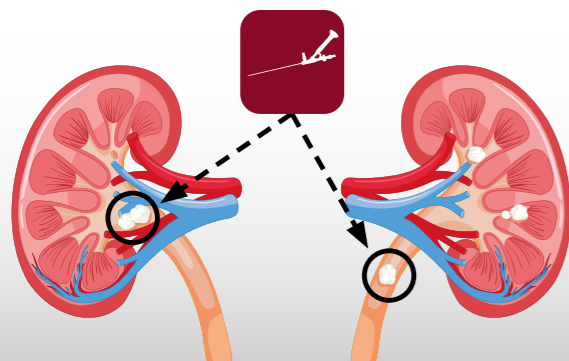
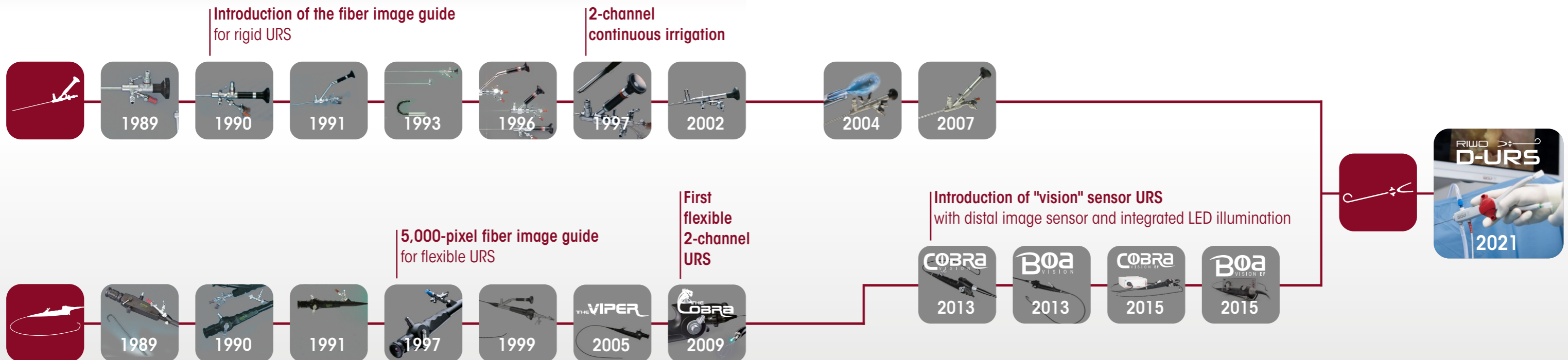
Re-thinking Ureteroscopy – the best of both worlds

Richard Wolf has been one of the pioneers in the field of endoscopic stone treatment ever since the first generation of flexible and semi-rigid ureterorenoscopes, and consistently impresses its customers with excellent products for ureter and kidney stone treatment.

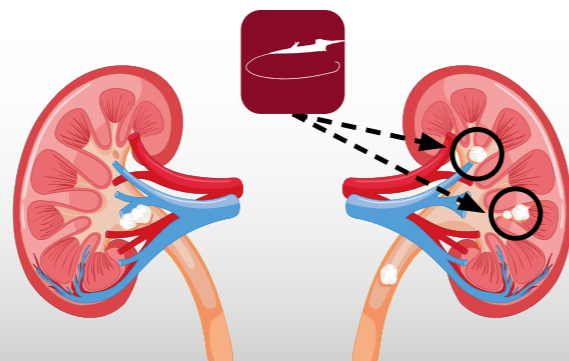
The objective in developing the **RIWO D-URS** was to make ureterorenoscopy **quicker, more efficient, and more convenient** for the user. An entirely new product concept combines the advantages of the semi-rigid URS with those of the flexible URS, thereby creating new application options.



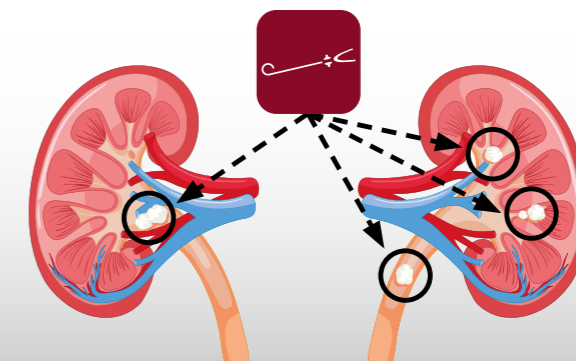
The best of both worlds – combined for the future!



The use of a semi-rigid URS is essentially limited to ureter stones.

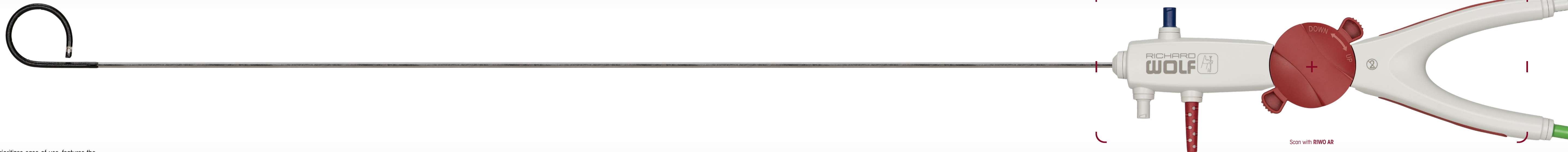


A flexible URS is used for removing stones in the renal pelvicalyceal system.



The RIWO D-URS can be used to remove stones from both the ureter and the renal pelvicalyceal system.

Feel the Difference



An instrument that prioritizes ease of use, features the ideal ergonomic shape for the application in question, and sets new standards in disposable endoscopes with its brilliant imaging quality.

All this is combined with a unique 3-channel solution, which provides patient safety and opens up completely new possibilities for designing your procedure.

Rediscover your next procedure as an entirely new experience.

Efficient treatment, every time

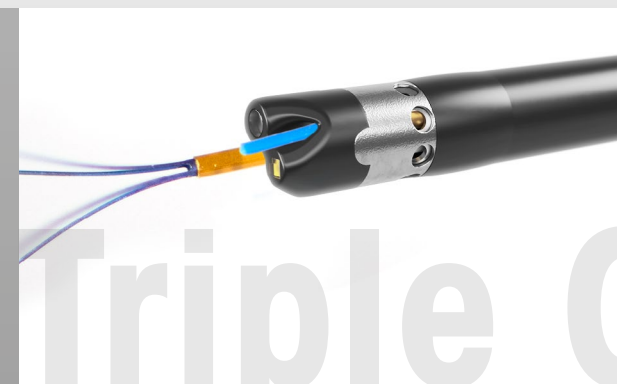
- The 3-channel solution: Simultaneous working with stone basket and laser fiber with continuous backflow even without ureteral access sheath.
- Can be used instead of a cystoscope or semi-rigid URS for placing the guide wire.
- Can also be inserted without ureteral access sheath.
- Both, ureter and kidney stones can be treated.
- Cuts down on standard instrument requirements.
- No need to change instruments.
- Ideal for solo surgery.

Brilliant technology

- Combination of semi-rigid sheath and flexible distal tip.
- Atraumatically shaped instrument tip for easy passage of ureteral stenoses.
- 300° upward/downward deflection of the distal tip.
- Continuous irrigation possible via a third channel integrated in the instrument sheath.
- Outstanding depth of field thanks to CMOS-Sensor technology.
- Distal LED for homogeneous illumination of the surgical area without overexposure and reflections.
- Special Imaging Mode (SIM) compatible.

Unique ergonomics

- Unique handle design enables completely new handling.
- Handle with non-slip silicone inlays.
- Surgery can also be performed comfortably while seated.
- Various ergonomic hand-positioning options available.
- Direct transmission of hand movement to the flexible distal tip.
- Reduced strain on the muscles due to relaxed, ergonomic working posture during the procedure.



Triple Channel



Digital



Disposable

RIWO 
AR

Learn more about our new augmented reality app: Download now!

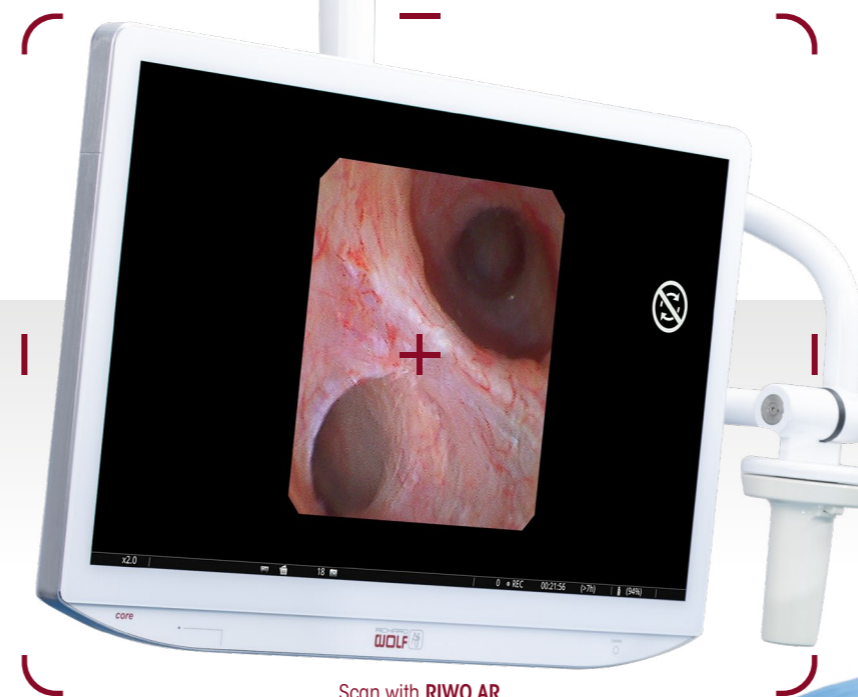


RIWO D-URS

Sets new benchmarks in ergonomics and handling

Sit down – it will help you save energy!

The **RIWO D-URS** also provides a convenient way to treat kidney and ureter stones while sitting. This ergonomic method of working is less tiring and easier on your back – especially during longer procedures.



Scan with RIWO AR

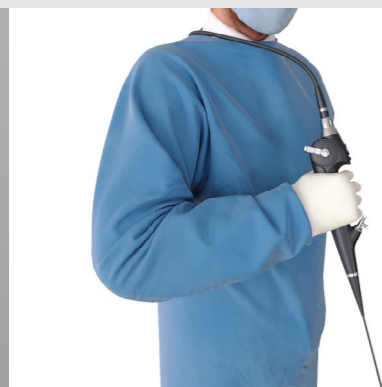
Ergonomics meets freedom of movement!

The clever handle design gives you enormous freedom of movement. While the handle is limited to approximately 90° in the case of a standard flexible ureterorenoscope, the new **RIWO D-URS** enables **the instrument to be rotated 180°** around its axis, ensuring your arm is in a relaxed position. The instrument allows you to perform the procedure while sitting, making your work much more convenient and less tiring.

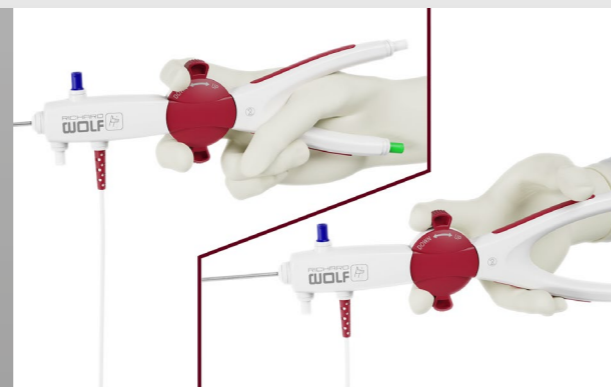
With the new **RIWO D-URS**, you can also perform the procedure conveniently from hip-height while wearing an X-ray apron. The **high torsional rigidity** of the sheath directly transmits your hand movements on the handle to the distal tip.

Easy introduction – quick progression

Thanks to its new handle design, the **RIWO D-URS** makes stone therapy applications significantly easier. The **intuitive handling** provides a perfect introduction to ureterorenoscopy, **especially for young physicians.**



Ergonomically unsuitable posture with standard URS



Individual handling – various ways to grip

Unique: continuous irrigation in flexible ureterorenoscopy

Particularly in thin-lumened anatomies and natural curves within the renal pelvicalyceal system, the risk of unintentional overpressure can easily arise. This problem is significantly reduced with the new **RIWO D-URS**.

A third channel integrated into the **RIWO D-URS** ensures a **constant backflow of irrigation fluid**, even without a **ureteral access sheath**. In addition, the continuous inflow of irrigation fluid is maintained even when a laser fiber is inserted.

First 3-channel disposable sensor ureterorenoscope

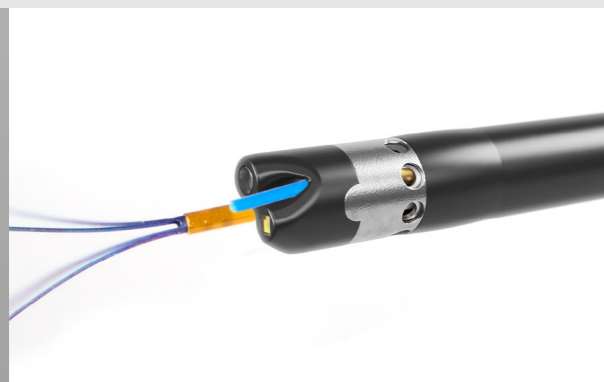
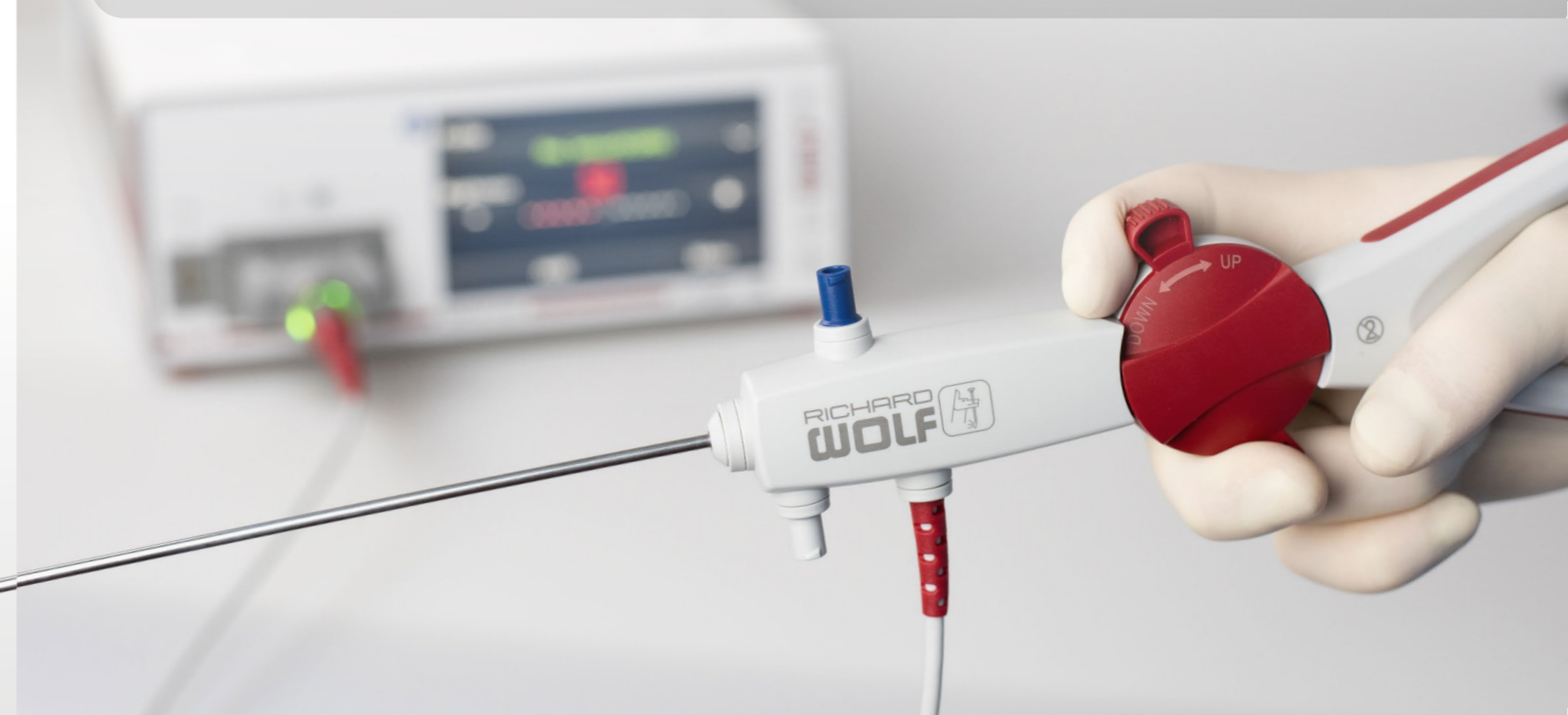
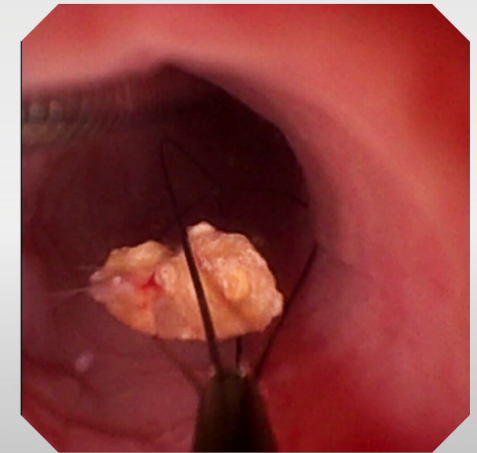
- Separate backflow channel in the instrument sheath
- 9.0 Fr. outer diameter
- 3.6 Fr. working channel for auxiliary instruments
- 1.65 Fr. working channel for laser fibers
- Suitable for ureteral access sheaths from 9.5 Fr.

Perfect irrigation properties – even without a ureteral access sheath

- Excellent visibility thanks to continuous irrigation
- Reduction of intrarenal pressure during the procedure due to special boreholes on the distal tip
- Continuous backflow in the instrument sheath
- When using the laser channel, the separate working channel is available for irrigation

The new standard in imaging with disposable ureterorenoscopes

The combination of continuous irrigation, the latest CMOS-Sensor technology, and an LED mounted on the instrument tip has never been seen before. It ensures excellent image quality and a fully illuminated surgical area.



Optimized backflow via third channel



Constant backflow of irrigation fluid

“The **RIWO D-URS** represents an absolute advancement when compared to the reusable Ureterorenoscopes currently available on the market. As it combines the semi-rigid design of the sheath with the flexibility of the distal tip, the renal calices as well as all parts of the renal pelvis can be reached in an optimal manner.”

Dr. med Michael Straub // Senior Urologist – Head of Endourology and Stone Center – University Hospital Klinikum rechts der Isar – Department of Urology Technical University Munich, Germany



Save time and money with fewer steps

No need for superfluous instruments!

The **RIWO D-URS** design enables two indications – ureter and kidney stones – **to be treated** with just one instrument.

That means it's no longer necessary to change instruments if the anatomy and situation allow it – something that has never existed before!

Significant time savings compared to conventional URS

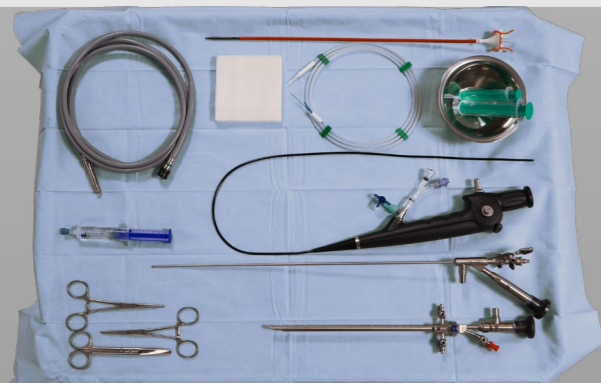
- Simplified work steps thanks to **new design**
- One instrument **to carry out** different work steps
- **"Solo surgery"** – the procedure can be performed without assistance
- Direct insertion of the instrument possible **without ureteral access sheath**

Over the long term, you can reduce:

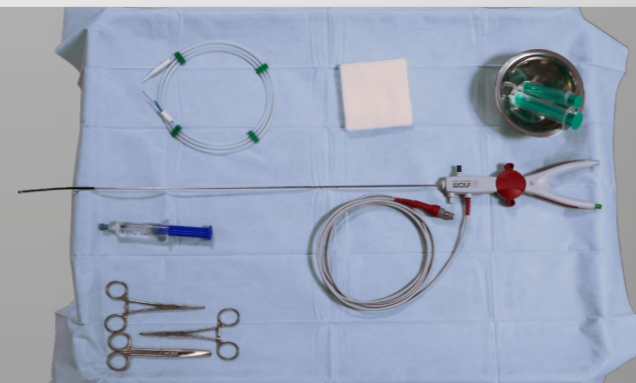
- Surgery times
- Instruments per procedure
- Long sterilization processes
- Central Sterile Services Department (CSSD) costs
- Surgical downtime due to defective instruments
- Unexpected repair costs

Fewer instruments, lower costs! No longer required for the procedure:

- Flexible or semi-rigid ureterorenoscope
- Ureteral access sheath
- Cystoscope
- Light cables



Conventional instruments



Your RIWO D-URS instruments

Matches your requirements

ENDOCAM D – small, but packs a punch

As a stand-alone controller, the **ENDOCAM D** is specially designed for requirements in outpatient operating rooms:

Thanks to its small and compact design, the **ENDOCAM D** fits even in operating rooms where space is tight and is also compatible with the monitors that are most frequently used in endoscopic applications.

Simply plug in the **ENDOCAM D** and it's ready for use at the push of a button.

Despite its compact design, the **ENDOCAM D** offers many functions that enhance safety, convenience, and flexibility.

- Saves space in the operating room (W x D x H: 20 x 22 x 6 cm)
- 3 function buttons: start/stop video, capture image, zoom (3 levels)
- Large LED display
- Visual and acoustic information
- Direct documentation on USB storage media
- Outstanding flexibility thanks to various video output signals and video formats
- Intuitive and easy operation
- Ideal supplement to existing systems



The new ENDOCAM D camera controller

You'll always find the right connection with Richard Wolf.

Based on your own requirements, you can decide whether you want to use the new **RIWO D-URS** with the **ENDOCAM Logic camera platform** or the new, compact, and specially developed **ENDOCAM D**.

RIWO D-URS & ENDOCAM Logic camera platform

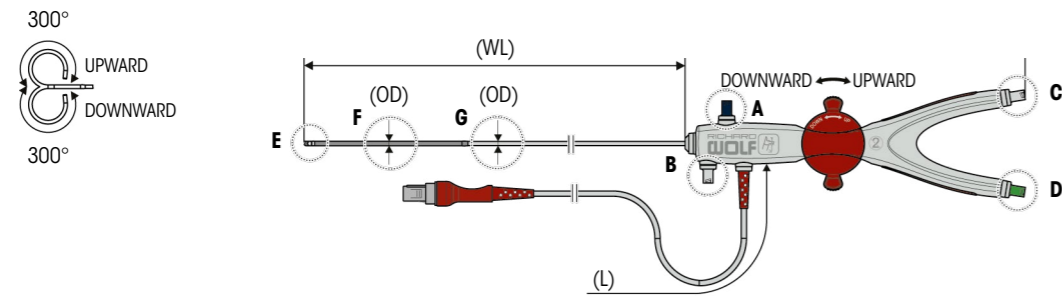
Already opted for our **ENDOCAM Logic camera system** and want to work with the **RIWO D-URS** without having to purchase another camera controller?

No problem – with our specially developed adapter for the **ENDOCAM Logic camera platform**, which can be used as a link between the instrument and camera. This means that you can continue using the system and all its options as normal:

- Image and video documentation on USB storage media
- Direct printout to network printer
- Special Imaging Modes (SIM) for improved tissue differentiation
- Entry of patient data via keyboard



Adapter for the ENDOCAM Logic camera platform



Working length (WL)	600 mm
Cable length (L)	2,500 mm
Outer diameter (OD) (flexible area) F	9 Fr.
Outer diameter (OD) (semi-rigid area) G	8.1 Fr.
Distal instrument tip E	6 Fr.
Working channel (C)	3.6 Fr.
Laser fiber channel (D)	1.65 Fr.
Deflection	+/-300° (upward/downward)
Direction of view	0°
Angle of view	90°
Luer connection for inlet, color: blue A	Ø 3.0 mm
Luer connection for outlet, color: gray B	Ø 3.0 mm
Luer connection for working channel, color: gray C	Ø 3.0 mm
Luer connection for laser fiber channel, color: green C	Ø 3.0 mm
Operating conditions	Temperature: +10 °C to +40 °C, rel. humidity: 20 % to 75 %, atmospheric pressure: 700 hPa to 1,060 hPa
Storage conditions	Temperature: +5 °C to +30 °C, rel. humidity: 10 % to 70 %, atmospheric pressure: 700 hPa to 1,060 hPa

RIWO D-URS

Sensor-Ureterorenoscope 9 FR WL 600 mm
PU = 3 PCS **473572076**

Camera controller

The **RIWO D-URS** is compatible with the following Richard Wolf camera controllers* using the adapter (5525410) for controller 5525

5525101 ENDOCAM Logic HD camera controller

5525301 ENDOCAM Logic 4K camera controller

5525201 ENDOCAM Logic HD lite camera controller

Adapter for controller 5525 **5525410**

ENDOCAM D camera controller bundle

comprising:

ENDOCAM D camera controller (5522101), cable HDMI / DVI-D lockable 3.0 m (103843), coaxial cable vektor plus 3.0 m (DZGR-0300-SW-GN), license for open source software (72321911), power cable (2440.03) **5522101**

Also:

Manual remote control USB **5525401**

Recommended accessories:

Flex. biopsy forceps
Ø 3 Fr. WL 920 mm **829.601**

Flex. grasp. forceps
Ø 3 Fr. WL 920 mm **828.651**

Power laser fiber**
Ø 200 µm disposable, 3.0 m **487502200**

Laser fiber**
Ø 200 µm disposable, 3.0 m **487501200**

Laser fiber**
Ø 272 µm disposable, 3.0 m **487501272**

Universal sealing valve 1-6 Fr.
(PU = 5 pcs), for introducing instruments from 1-6 Fr,
sterile, for single use **4712348**

Luer sealing cap **15023205**

* Software version V2.0.9 or higher

**These laser fibers are compatible with the Richard Wolf MegaPulse 30+ and MegaPulse 70+ lasers.

