Every Detail Counts!

Flexible Uretero-Renoscope FLEXX²S

A New Dimension. Slender Design. Excellent Visualization.
As Every Detail Counts!

Flexible Uretero-Renoscope FLEX-X²S

The new dimension of the KARL STORZ Uretero-Renoscope FLEX-X²S delivers unprecedented detail sharpness and brilliance thanks to double fiber capacity. This optical enhancement, in conjunction with already familiar and proven properties, provides a perfect overview of all situations – as every detail counts.

With a sheath circumference of 7.5 Fr., the FLEX-X²S uretero-renoscope enables access to even complex anatomies and thus expands diagnostic and therapeutic options for urologists.

Modern technologies offer full dual 270° deflection with an easy-to-use single lever control.

The robust sheath is extremely torsion-resistant, ensuring better control and easier access to the kidney. The intuitive bending radius conforms to the renal anatomy, no matter what its shape or size.

The integrated Laserite ceramic insulation protects the instrument from thermal damage at the distal tip.
Crush-resistant sheath minimizes breakage

Lightweight, ergonomic handle for enhanced user comfort

Shock-resistant deflection system

7.5 Fr. sheath for easy access

Torsion-resistant, direct torque transmission

Slender design for excellent visualization.
**Single-lever control**
Patented single-lever control of the bending section provides intuitive navigation and control. The lightweight, ergonomic handle further enhances surgeon control.

**Laserite ceramic insulation**
The FLEX-X² has an atraumatic tip design with Laserite ceramic insulation at the distal end of the working channel to protect the endoscope from thermal damage.

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**Minimal sheath of 7.5 Fr.**

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**Easier insertion and positioning**
An ideal combination of a torsion-resistant sheath and a flexible tip with integrated shock absorber system allows navigation even in the most tortuous ureter and facilitates access to all renal areas – often without the need for dilation.
Excellent visualization
The minimal 7.5 Fr. sheath provides maximum patient comfort. The FLEX-X²S offers excellent visualization even in the most confined spaces thanks to the double amount of fibers – as every detail counts.

Torsion-resistant, stable sheath
The sheath design incorporates state-of-the-art materials to provide 1:1 torque for enhanced steerability.

Intuitive control
The advanced vertebra design provides anatomy-conforming deflection – regardless of anatomical anomalies.

Shock-resistant deflection system
The integrated shock absorber system with additional passive deflection components provides easier access to all areas of the kidney.
Flexible Uretero-Renoscope FLEX-X²S
for access to the entire intrarenal collecting system

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Uretero-Renoscope</th>
<th>Deflection of distal tip</th>
<th>Direction of view</th>
<th>Angle of View</th>
<th>Working length</th>
<th>Working channel inner diameter</th>
<th>Sheath size</th>
</tr>
</thead>
<tbody>
<tr>
<td>11278 AK</td>
<td>with positive deflection</td>
<td>0° 88° 67 cm</td>
<td>3.6 Fr.</td>
<td>7.5 Fr.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>11278 AUK</td>
<td>with contrapositive deflection</td>
<td>0° 88° 67 cm</td>
<td>3.6 Fr.</td>
<td>7.5 Fr.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following accessories are included:

- **Case**
  - 27677 X
  - Leakage Tester, with bulb and manometer
- **Cleaning Brush**, round, flexible, outer diameter 2 mm, for working channel diameter 1.2-1.8 mm, length 150 cm
  - 27651 AL
- **Biofilm Removal Device Cleaning Brush**, length 90 cm, brush diameter 1.7 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 1.2-1.5 mm
  - 110930-50
- **LUER-Adaptor**, with seal
  - 27014 Y
Optional accessories:

11014 YK  **Fiber Fixation Set**, for the fixation of LASER fibers in the working channels of flexible endoscopes up to diameter 1 mm including:
- **Fiber Fixation Cleaning Adaptor**
- **Seal**, package of 10

6927691  **Adaptor for Two-Way Stopcock**, Luer-Lock with O₂ tube connection

11275 FE  **Grasping Forceps**, double action jaws, flexible, 3 Fr., length 100 cm

11275 ZE  **Biopsy Forceps**, double action jaws, flexible, 3 Fr., length 100 cm

27023 LB  **Stone Basket**, nitinol, without tip, straight, 1.9 Fr., length 120 cm, 4 wires, basket diameter 12 mm, sterile, for single use

11770 T  **Coagulation Electrode**, unipolar, 3 Fr., length 110 cm

27025 P  **Guide Wire**, with ball end, 3 Fr., sterile, package of 10

27550 N  **Seal**, for Instrument Ports 27001 G/GF/GH/GP, package of 10, single use recommended

27001 RA  **Cleaning Adaptor**
Plastic Container for the Sterilization and Storage of Uretero-Renoscopes

39402 AS  **Plastic Container for Sterilization**, especially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, perforated, with lid, for use with flexible endoscopes up to max. 95 cm working length, external dimensions (w x d x h): 550 x 260 x 92 mm

Please note: Fiberscopes can only be sterilized with gas and plasma in this container. The instrument displayed is not included in the plastic container.
Intuitive Deflection Mechanism

You wouldn’t force someone who is left-handed to write with his right hand. Yet many flexible endoscopes impose exactly this type of limitation by forcing their operators to use counter-intuitive deflection mechanisms.

KARL STORZ answers this challenge by offering a choice of deflection mechanisms: either positive or contrapositive. With positive (or “logical”) deflection, a downward movement of the lever mechanism causes an upward movement of the endoscope tip, and vice versa. Reverse this orientation by choosing the contrapositive mechanism: a downward movement of the lever mechanism now causes a downward movement of the endoscope tip.

Either way, a simple flexion of the thumb on the deflection lever sweeps the endoscope tip into some of the most challenging areas of the anatomy, such as the lower pole calyces of the kidney. Additionally, the intuitive design means you will never have to struggle to distinguish up from down – or down from up.

Choose the active tip deflection mechanism you are most comfortable with

Positive deflection mechanism

Contrapositive deflection mechanism
Notes

It is recommended to check the suitability of the product for the intended procedure prior to use.