OES URETERO-RENO FIBERSCOPE

URF TYPE P5

Your Vision, Our Future

# Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Field of View</th>
<th>Direction of View</th>
<th>Depth of Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical System</td>
<td>90°</td>
<td>0°</td>
<td>2 ~ 50 mm</td>
</tr>
<tr>
<td>Insertion Tube</td>
<td>5.3 Fr (bullet shape)</td>
<td>-275°</td>
<td>2 ~ 50 mm</td>
</tr>
<tr>
<td>Instrument Channel</td>
<td>3.6 Fr (ø 1.2 mm)</td>
<td>180°</td>
<td>275°</td>
</tr>
<tr>
<td>Bending Section</td>
<td>1050 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Length</td>
<td>1050 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Standard Set

- OES Uretero-Reno Fiberscope URF TYPE P5
- MAJ-579 Biopsy Valve
- MAJ-891 Forceps/Irrigation Plug
- MB-156 ETO Cap
- MH-507 Channel Opening Cleaning Brush
- BW-15SH Channel Cleaning Brush
- BW-7B Channel Cleaning Brush

## Endourology Products

- **EndoEYE Ureteroscope**
  - With an advanced CCD built into the distal tip, the innovative video scope will assist you with high-definition images. The light guide cable and remote control switches are integrated within the body of the scope.

- **CYF TYPE VISI AJ VISERA CYSTO-NEPHRO VIDEOSCOPE**
  - The flexible video cystoscope incorporates a high-resolution, multi-color CCD chip at the distal end of the scope and produces a large, bright, and consistent image. The Evolution tip design enhances insertion without compromising image quality and treatment capability. A suction function is also available with the CYF-VA2.

- **OES Pro Ureteroscope**
  - The compact 30,000-image fiber bundle provides excellent visualization. Large, bright, and consistently high-quality images enable detailed observation and effective treatment. Expansion irrigation capability increases efficiency. Unique, precisely designed insertion portion and revised tip profile provides atraumatic insertion. Autoclavable.

- **OES Pro Percutaneous Nephroscope**
  - This innovative nephroscope incorporates a high-resolution, multi-color CCD chip at the distal end of the scope and provides a large, bright, and consistent image. The Evolution tip design enhances insertion without compromising image quality and treatment capability. A suction function is also available with the CYF-VA2.

- **LUS-2 Ultrasonic Lithotripter**
  - Highly effective stone fragmentation and suction using ultrasonic power. Integrated generator and pump (two-in-one system) improves both procedural and cost efficiency.

## OES Pro Percutaneous Nephroscope

- This new percutaneous nephroscope offers unsurpassed image quality. Produces excellent flow capability, ensuring the clearest field of view possible and allowing you to concentrate on your procedure. A variety of forceps are available, ergonomically designed. Autoclavable.

## OES Pro Ureteroscope

- The compact 50,000-image fiber bundle provides excellent visualization. Large, bright, and consistently high-quality images enable detailed observation and effective treatment. Expansion irrigation capability increases efficiency. Unique, precisely designed insertion portion and revised tip profile provides atraumatic insertion. Autoclavable.

## OES Pro Percutaneous Nephroscope

- This innovative nephroscope incorporates a high-resolution, multi-color CCD chip at the distal end of the scope and provides a large, bright, and consistent image. The Evolution tip design enhances insertion without compromising image quality and treatment capability. A suction function is also available with the CYF-VA2.

## CYF-45A OES CYSTO-NEPHRO FIBERSCOPE

- The flexible video cystoscope incorporates a high-resolution, multi-color CCD chip at the distal end of the scope and produces a large, bright, and consistent image. The Evolution tip design enhances insertion without compromising image quality and treatment capability. A suction function is also available with the CYF-VA2.

## EndoEYE Ureteroscope

- With an advanced CCD built into the distal tip, the innovative video scope will assist you with high-definition images. The light guide cable and remote control switches are integrated within the body of the scope.
**Breakthrough Technology Advances Every Aspect of the Endourologic Process**

From insertion to maintenance, Olympus incorporates its latest proprietary technology in the development of the URF TYPE P5 Flexible Ureteroscope where significant benefits are realized when performing uretero-renaloscopy.

### Access

Flexible angulation facilitates orientation inside the kidney.

- The 275° down angulation enables optimal visualization in the lower calyces.
- The 180° up angulation with a small radius is most appropriate for accessing the upper/middle calyces.
- The scope is uniquely designed to maintain excellent tip deflection even when a small caliber laser fiber is inserted.

### Visualization

Image quality has been significantly improved.

By incorporating a moiré-reduction filter into the URF TYPE P5 scope, Olympus has succeeded in further enhancing its industry-leading opto-digital imaging performance. The moiré-reduction effect provides the user with an extremely clear picture.

- The 275° down angulation enables optimal visualization in the lower calyces.
- The 180° up angulation (with a small radius) is most appropriate for accessing the upper/middle calyces.
- The scope is uniquely designed to maintain excellent tip deflection even when a small caliber laser fiber is inserted.

### Control

One hand operation, improved torque control, detachable LG

- While angulating the scope with one hand, you can simultaneously operate a forceps or open/close the irrigation port with the other hand.
- A special new material has been designed into the outer sheath making tip rotation more responsive when twisting the control section.
- Detachable light guide (LG) capability allows the user to quickly switch back and forth the light guide between the cystoscope/semi-rigid and the URF TYPE P5.

### Insertion

Evolutiontip with slim 5.3 Fr. diameter.

- The Evolutiontip is a radical innovation in scope tip design. The unique "spare" tip can be aligned with the angulation direction, making insertion much smoother while maintaining optimal image quality and treatment capabilities. Because of the slim 5.3 Fr. tip diameter, versatility is significantly enhanced.

### Maintenance

Remarkable durability & leakage testing

- A special new material used in the outer sheath minimizes crushing.
- Thicker rubber in the bending section resists potential puncturing.
- Leakage testing allows punctures to be detected early and helps to ensure a longer service life for the scope.

### Accessory Information

- **FG-51D/55D:** 3 Fr., 4 wires; FG-52D: 2.4 Fr., 3 wires
- Newly designed for greater comfort and efficiency. Can be used with two styles of grip.
- **FG-54D (3Fr., Length:1150mm)** Disposable Grasping Forceps (Basket Type)
- Features a basket with large openings. Designed to not be crushed in narrow canals.
- **FB-56D-1 (3Fr., Length:1150mm)** Biopsy Forceps
- **MD-82 Guide Wire**
  - Its slim design (11.7 Fr.) lets it fit easily on the URF TYPE P5. Also, up to 0.035 inch guide wire can be used for smoother insertion.
- **ST-U1 Urinary Duct Stent Dilator**
  - Its outer diameter 1.1 Fr. fits perfectly in the URF TYPE P5. Also, up to 0.035 inch guide wire can be used for smoother insertion.

**Accessories**
BREAKTHROUGH TECHNOLOGY ADVANCES EVERY ASPECT OF THE ENDUROLOGIC PROCESS

From insertion to maintenance, Olympus incorporates its latest proprietary technology in the development of the URF TYPE P5 Flexible Ureteroscope where significant benefits are realized when performing uretero-renaloscopy.

Access

Flexible angulation facilitates orientation inside the kidney.

- The 275° down angulation enables optimal visualization of the lower calyx.
- The 180° up angulation with a small radius is most appropriate for accessing the upper/middle calyces.
- The scope is uniquely designed to maintain excellent tip deflection even when small caliber laser fiber is inserted.

Visualization

Image quality has been significantly improved.

By incorporating a moiré-reduction filter into the URF TYPE P5 scope, Olympus has succeeded in further enhancing its industry superior opto-digital imaging performance. The moiré-reduction effect provides the user with an extremely clear picture.

Control

One hand operation, improved torque control, detachable LG

- While angulating the scope with one hand, you can simultaneously operate a forceps or open/close the irrigation port with the other hand.
- A special new material has been designed into the outer sheath making it more responsive while tip rotation is twisting the control section.
- Detachable light guide (LG) capability allows the user to quickly switch back and forth the light guide between the cystoscope/semi-rigid ureteroscope and the URF TYPE P5.

Insertion

Evolution tip with slim 5.3 Fr. diameter.

The Evolution tip is a radical innovation in scope tip design. The unique tapered tip can be aligned with the angulation direction, making insertion much smoother while maintaining optimal image quality and treatment capabilities. The slim 5.3 Fr. tip diameter, insertability is significantly enhanced.

Maintenance

Remarkable durability & leakage testing

- A special new material used in the outer sheath minimizes crushing.
- Thicker rubber in the bending section resists potential puncturing.
- Leakage testing allows punctures to be detected early and helps to ensure a longer service life for the scope.

Accessories

- Handle:
  - Newly designed for greater comfort and efficiency. Can be used with two styles of grip.
- FG-51D/52D/55D (Length: 1150 mm)
  - Disposable Grasping Forceps (Basket Type)
  - Features a basket with large openings.
  - Designed to not be crushed in narrow canals.
- FG-54D (3 Fr., Length: 1150 mm)
  - Disposable Grasping Forceps
  - Disposable Grasping Forceps (Three Nail Type)
- FB-56D-1 (3 Fr., Length: 1150 mm)
  - Biopsy Forceps
- MD-82 Guide Wire
  - 0.035 inch diameter and flexibility on both sides provides smoother insertion.
- UL-U1 Urinary Duct Sheath Dilator
  - Can be inserted into a 3 Fr. (1.2 mm) channel.
- WA05991A Instrument Tray

The 275° down angulation enables optimal visualization of the lower calyx. The 180° up angulation with a small radius is most appropriate for accessing the upper/middle calyces. The scope is uniquely designed to maintain excellent by deflection even when small caliber laser fiber is inserted.
## Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insertion Tube</strong></td>
<td></td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Instrument Channel</strong></td>
<td></td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Bending Section</strong></td>
<td></td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Total Length</strong></td>
<td>1050mm</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Field of View</strong></td>
<td>90°</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Direction of View</strong></td>
<td>0°</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Depth of Field</strong></td>
<td>2 ~ 50mm</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Distal End Outer Diameter</strong></td>
<td>5.3 Fr. (bullet shape)</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Insertion Tube Outer Diameter</strong></td>
<td>8.4 Fr. (ø2.8mm)</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Working Length</strong></td>
<td>700mm</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Inner Channel Diameter</strong></td>
<td>3.6 Fr. (ø1.2mm)</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
<tr>
<td><strong>Angulation Range</strong></td>
<td>Up 180°/Down 275°</td>
<td>Insertion Tube with 90° bend, 0° view direction.</td>
</tr>
</tbody>
</table>

## Standard Set

- OES Uretero-Reno Fiberscope URF TYPE P5
- MAJ-579 Biopsy Valve
- MAJ-891 Forceps/Irrigation Plug
- MB-156 ETO Cap
- BW-15SH Channel Cleaning Brush
- BW-7B Channel Cleaning Brush

## Endourology Products

- **EndoEYE Ureteroscope**
  - With an advanced CCD built into the distal tip, this innovative video scope will astound you with its superb true-to-life image quality. The light guide cable and remote control switches are integrated within the body of the scope.

- **CYF TYPE VISUAL VISERA CYSTO-NEPHRO VIDEOSCOPE**
  - The flexible video cystoscope incorporates a high-resolution, multicolor CCD chip at the distal end of the scope which produces a large, bright, and consistent image. The Evolution tip design ensures insertability without compromising image quality and treatment capability. A suction function is available with the CYF-VA2.

- **CYF-ASA OES CYSTO-NEPHRO FIBERSCOPE**
  - The compact 50,000-image fiber bundle provides excellent visualization. Larger, brighter, more consistently high-quality images enable detailed observation and effective treatment. Expansionary irrigation capability increases efficiency. Uniquely designed insertion portion and revised tip profile provides atraumatic insertion. Autoclavable.

- **CYF-5/5A OES CYSTO NEPHRO FIBERSCOPE**
  - Compatible with electrosurgical procedures. One-handed control of the aspiration function makes it easy to keep the field of view clear. The large ø2.4mm (7.2 Fr.) channel allows perfusion with 6 Fr. instruments. Evolution tip design.

- **LUS-2 Ultrasound Lithotripter**
  - Highly effective stone fragmentation and suction using ultrasonic power. Integrated generator and pump (two-in-one system) improves both procedural and cost efficiency.