VISERA ELITE – THE UROLOGY IMAGING PLATFORM

Brilliant Full-HD Resolution Improves Diagnosis and Treatment.
THE VISERA ELITE PLATFORM: BRILLIANT VISION – HIGHER PERFORMANCE

State-of-the-art imaging techniques in the operating room deliver true-to-life image quality in crystal-clear detail. The brilliant full-HD resolution is the basis for the high accuracy in urological diagnostic and therapeutic procedures such as BPH, bladder cancer resection, ureteroscopy, and cystoscopy. The innovative Narrow Band Imaging (NBI) technology allows for enhanced visibility of vessel structures potentially leading to improved detection of carcinoma in situ in bladder cancer.

VISERA ELITE: The Urology Imaging Platform

- Advanced, full HD for improved color reproduction never before seen in an operating room
- Increased light output (20% brighter compared to prior generation) for advanced Narrow Band Imaging (NBI) suitable for NMIBC detection
- With filters for PDD (Photodynamic Diagnosis)
- Versatile platform that can be shared among multiple surgical specialties
- Upgradeable to 3D

VISERA ELITE: Supports Urologists in All Procedural Needs

Cystoscopy  
Resection  
Ureteroscopy  
Laparoscopic Urology
Evolution in Cystoscopy

Olympus is a pioneer in the development of flexible endoscopic instrumentation for the examination of the urinary tract. Coming from fiberscope cystoscopy with a small image with low resolution and brightness (picture 1), technological advances led to chip-on-the-tip cystoscopes (picture 2) that has now achieved excellence in HD flexible cystoscopy by providing a 20% brighter image compared to the first series of chip-on-the-tip cystoscopes (picture 3).

HD and Full-Screen Capabilities – for the First Time Ever in Flexible Cystoscopy

- Increased light output (20% brighter) for advanced Narrow Band Imaging (NBI)
- Enhanced visibility of superficial capillary and mucosal vessel system
- Potentially higher and improved detection rate of carcinoma in situ

A 20% brighter image improves the detection and diagnosis of suspicious tissue areas.
HD NBI: THE ADVANCED DIAGNOSTIC OPTION IN BLADDER CANCER FOLLOW-UP

Proven Clinical Evidence for Narrow Band Imaging in NMIBC Management

Narrow Band Imaging (NBI) is an optical image-enhancement technology that improves the visibility of vessels and other tissue on the mucosal surface by filtering light wavelengths. Cauberg et al. found a higher tumor detection rate for HD-NBI (94.7%) in comparison to white light (79.2%).

1 Cauberg et al., Narrow Band Imaging Cystoscopy Improves the Detection of Non-Muscle-Invasive Bladder Cancer, Urology 2010; 76:658–663
**URF-V2: HIGHEST VIDEOSCOPE IMAGE QUALITY IN SUPERSLIM 8.4 FR SHAFT**

**8.4 Fr Slim and Stiff Shaft for Facilitating Access and Maneuverability**

- Slim URF-V2 fits into 10/12 Fr access sheath allowing for access in tight ureters
- Using the URF-V2 in combination with a 12/14 Fr access sheath ensures the clearest visualization thanks to improved flow
- Increased shaft stiffness for improved steering of the ureteroscope in order to reach lower pole calyx easily

**Outstanding Vision**

- Significantly larger image compared to conventional Olympus fiberscope
- Better vision allows for safe laser activation leading to approximately 20% savings in procedure time

![Conventional fiberscope image URF-P5](image1)

![Chip-on-the-tip ureteroscope image URF-V2](image2)
The digital technology for flexible ureteroscopy is one of the major improvements for a better treatment of kidney stones and urothelial tumor ablation.

Prof. Olivier Traxer, Tenon Hospital, Paris, France

**Improved Maneuverability to Reach Everywhere**

**Unique Insertion Tube Rotation for More Comfort**
The 120° rotation function allows the operator to change the shaft’s angle by rotating a ring on the handle. This potentially allows for longer laser activation making treatment of large stone burdens feasible, more precise, and more comfortable.

**275° Wide Angulation Range**
Deflection capabilities of 275° up and down allow for outstanding visualization of lower renal calyx as well as upper and middle calyces.

**NBI for More Accurate Tumor Detection with NBI**

**Tumor**
NBI as optical image enhancement technology is of substantial help in better identifying upper tract tumors due to improved visibility of vessel structures.
HD UROLOGY CAMERA HEAD: 65 GRAMS OF HIGH DEFINITION AT YOUR FINGERTIPS

Crystal Clear, Brilliant, and True to Life
- Details and colors are sharp and true to life
- Significantly improved color reproduction compared to previous generation
- The advanced option for HD resection of BPH and bladder cancer
HD CAMERA HEAD WITH NARROW BAND IMAGING TECHNOLOGY AT THE PUSH OF A BUTTON

HD Camera Head with NBI – a Unique Combination for Bladder Cancer Resection

∙ Combination of HD and NBI delivers 20% brighter light compared to earlier camera head systems
∙ Potentially higher and improved detection rate of carcinoma in situ due to improved visibility of vessels on the mucosal surface
∙ Proven evidence: HD-NBI reduces the recurrence risk of NMIBC by at least 10% at one year¹

Ultralight and Easy to Operate

∙ Only 65 grams – the weight of a fountain pen
∙ Ergonomic design and high maneuverability to make even long procedures comfortable
∙ Programmable remote switches at the cable for less shaking, more control, and added convenience

¹ Naselli et al., A Randomized Prospective Trial to Assess the Impact of Transurethral Resection in Narrow Band Imaging Modality on Non-Muscle-Invasive Bladder Cancer Recurrence, European Urology 2012; 61:908–913
ENDOEYE HD II 10 MM: THE NEXT-GENERATION VIDEO LAPAROSCOPE

Fog-Free Function
- Crystal-clear view for immediately starting surgical procedures
- No cover glass fogging during the entire procedure

Autoclavability
- All surgical endoscopes from Olympus are autoclavable.
- Including the new 5 mm and the 10 mm ENDOEYE FLEX
ENDOEYE HD II 10 MM: VIVID VISUALIZATION, COMFORTABLE CONTROL

Next-Generation HD
- 10 mm HDTV with best image quality and highest resolution
- New 5 mm HDTV for significantly expanded clinical possibilities in laparoscopic surgery

Chip-on-the-tip
- Superior illumination and maximum contrast
- Bright and crystal-clear images
- Colors are sharp and true to life

Focus-Free
- Consistent and excellent depth of field from the center to the periphery
ENDOYE FLEX HD 5 MM: INNOVATION IN LAPAROSCOPY – DESIGNED TO REACH EVERYWHERE

Optimum Angulation

- World’s first 5 mm video laparoscope in HD quality for maximum patient comfort and safety
- Designed to reach everywhere: can bend 100 degrees up and down in four directions
- Organs and tissues can be thoroughly examined head-on, from above, and from behind
3CCD CAMERA HEAD: EXCEPTIONAL IMAGE QUALITY AND CONVENIENT REMOTE CONTROL

Full HD 3CCD
- Delivers crystal-clear image in HD quality
- Supports your procedures with finer details than ever before
- Compatible with conventional Olympus laparoscopes

Convenient handling
- Single-Handed automatic focus and zoom by pressing a button
- Three programmable switches for facilitated control of frequently used functions
## VISERA ELITE PORTFOLIO OVERVIEW

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<th><strong>Video Processor and Light Source</strong></th>
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<td>N3643860 VISERA ELITE – OTV-S190, video processor</td>
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<tr>
<td>N3643950 VISERA ELITE – CLV-S190, light source</td>
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<td>N3828660 CYF-VHR – flexible video cysto-nephroscope with backward angulation</td>
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<td>N4506330 URF-V2 – flexible video ureteroscope</td>
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<td>N4506430 URF-V2R – flexible video ureteroscope</td>
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<td>N4501260 URF-V – flexible video ureteroscope</td>
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<th><strong>Video Laparoscopes</strong></th>
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<td>WA50042A ENDOEYE II – HD in 10 mm with 30°</td>
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<td>WA50050A ENDOEYE II – HD in 5.4 mm with 0°</td>
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<tr>
<td>WA50052A ENDOEYE II – HD in 5.4 mm with 30°</td>
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<td>N3828060 ENDOEYE FLEX 5 mm – HD with bendable tip</td>
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<tr>
<td>N4488560 CH-S190-08-LB – HD urology ultralight camera head</td>
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<tr>
<td>N3804860 3CCD CH-S190-XZ-E – laparoscopy camera head</td>
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<td>Category</td>
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<tr>
<td>Monitor</td>
<td>OEV262H – Olympus high-definition LCD monitor, 26”</td>
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<td>Insufflator</td>
<td>UHI-4 – insufflator</td>
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<td>Full HD Recording Platform</td>
<td>IMH-10 – Blu-ray and HDD recording platform</td>
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<td></td>
<td>IMH-20 – Blu-ray and HDD recording platform</td>
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<tr>
<td>Trolley</td>
<td>VISERA ELITE – WM-NP2 mobile workstation</td>
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