

# Highlights 2019

Urology





## A Revolution in Transurethral Treatment Concepts

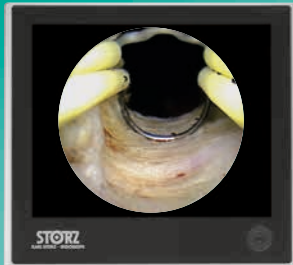
### Complete system and diverse electrodes

The new bipolar concept from KARL STORZ sets new standards in terms of effectiveness, economic efficiency, patient safety and reliability and therefore revolutionizes the treatment of BPS and/or bladder tumors.

The system is supported by the KARL STORZ HF Generator AUTOCON® III 400. The performance of bipolar applications has thus been further enhanced and optimized.

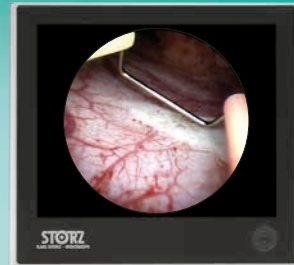
The KARL STORZ product portfolio includes loops for resection, incision, en-bloc resection as well as vaporization and enucleation electrodes for the prostate, bladder and urethra.

KARL STORZ provides a modern, adaptive morcellator system for enucleation that enables fast and efficient morcellation or the removal of prostate tissue from the bladder.



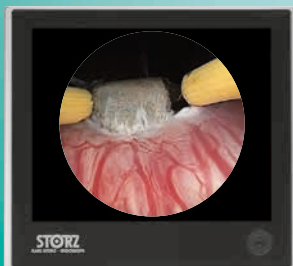
**Bipolar Standard TUR-P**

e.g. prostate 30-80 ml  
Standard procedure for prostate resection



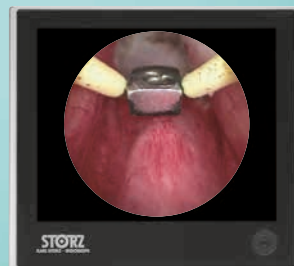
**Bipolar En-Bloc Resection**

Enhanced TUR-B  
Thanks to new bipolar loops



**Bipolar Vaporization**

e.g. prostate < 30 ml  
Cost-efficient alternative to laser vaporization



**Bipolar Enucleation**

e.g. prostate > 80/100 ml  
Comparable efficiency to laser enucleation

## Special features of the transurethral treatment concept

- Perfect symbiosis with HF surgery: Treatment, technology and economic efficiency
- All techniques can be performed with a bipolar working element by selecting the appropriate electrode
- Real bipolar system: No current backflow via the sheath
- Precise cutting and initial incision without delay: Automatic and optimized HF current regulation with the AUTOCON® III 400 HF generator
- Maximum efficiency with minimal, controlled current flow
- Minimal tissue penetration; reduced obturator nerve stimulation
- A generator for all techniques: Bipolar vaporization, enucleation and standard TUR

**HOPKINS® Telescopes**

- 27005 BA **HOPKINS® Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- 27005 FA **HOPKINS® Telescope 12°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black

**Working Elements**

- 27040 EB **Working Element**, bipolar  
Passive (cutting by means of a spring), movable thumb support.  
In rest position the electrode tip is inside the sheath.
- 27040 DB **Working Element**, bipolar  
Active (cutting by means of a finger grip), movable thumb support.  
In rest position the electrode tip is outside the sheath.

**Resectoscope Sheaths**

- 27050 SCK **Resectoscope Sheath**, quick-release lock, including connecting tube for in- and outflow, 26 Fr., oblique beak, **rotating** inner sheath with ceramic insulation, color code: yellow
- 27040 BOK **Resectoscope Sheath**, with LUER-Lock stopcock and obturator, including connecting tube for inflow, 24 Fr., oblique beak, Obturator 27040 OC included in delivery, color code: yellow
- 27241 BOK **Resectoscope Sheath**, with central valve and obturator, including connecting tube for in- and outflow, 24 Fr., oblique beak, Obturator 27040 OC included in delivery, color code: yellow








**Obturator**

- 27040 OC **Standard Obturator**,  
for 24/26 Fr. Sheaths 27050 SCK, 27040 BOK, 27241 BOK

**High Frequency Generator**

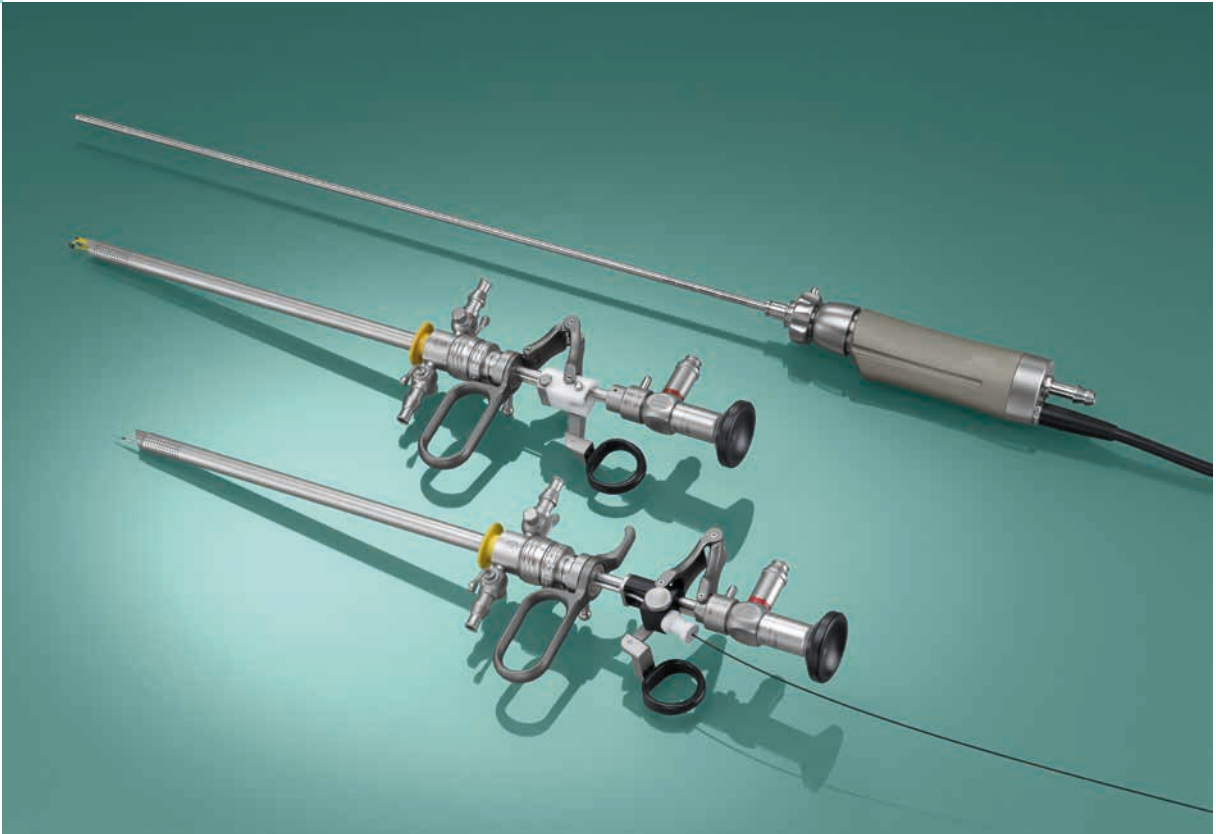
- UH 400 **AUTOCON® III 400 High-End**, can be integrated into OR1™ with KARL STORZ OR1™ SCB control WU 300, power supply 220-240 VAC, 50/60 Hz, including mains cord
- UF 902 **Two-Pedal Footswitch**, with button for switchover function, for use with HF generators
- UH 801 **Bipolar High Frequency Cord**, length 400 cm, for KARL STORZ AUTOCON® III 400 SCB, for use with KARL STORZ bipolar resectoscopes

**Bipolar Electrodes**

24/26 Fr. Electrodes, for use with HOPKINS® Telescopes 27005 BA/FA	Size and Color Code	Electrodes – <b>reusable</b> , package of 6	Electrodes – <b>for single use</b> , package of 10 
<b>Cutting Loop for TUR-P</b>			
	diameter 0.35 mm color code: yellow	27040 GP1	011160-10*
<b>Cutting Loop for TUR-B</b>			
	diameter 0.30 mm color code: yellow/orange	27040 GP130	011165-10*
	diameter 0.30 mm color code: yellow/orange	27040 JB130	011167-10*
	diameter 0.30 mm color code: yellow/orange	27040 JBE130	011166-10*
<b>Vaporization Electrode HALF MOON®</b>			
	diameter 0.35 mm color code: yellow	27040 NB	011156-10*
<b>Enucleation Electrode</b>			
	diameter 0.35 mm color code: yellow	27040 VE	011169-10*



Further information on the KARL STORZ product portfolio is available in the Urology catalog.



## Endoscopic Enucleation and Morcellation from KARL STORZ

### All from a single source

In a publication of the EAU Guidelines in 2016, laser enucleation (e.g., HoLEP) and bipolar enucleation are grouped under enucleation of the prostate (EEP). Similar to classical transurethral resection, EEP is thus regarded as a treatment of choice for benign prostate syndrome (BPS). To meet the requirements of this development, KARL STORZ presents variable configuration possibilities which enable you to perform both laser and HF-based applications using one basic instrument. KARL STORZ thus provides you with a flexible system for all techniques and energy sources and, at the same time, expands its product line for enucleation with effective instrumentation for the removal of prostate tissue following enucleation.

- Economical and efficient solutions for enucleation techniques:  
Standard instruments for enucleation techniques as well as additional dedicated instruments for laser (HoLEP, ThuLEP) and bipolar enucleation
- Efficient removal of prostate tissue and straightforward, individual installation in our morcellator system

## Laser Enucleation

### KUNTZ Working Elements

- 27056 LA **KUNTZ Working Element**, for use with 24/26 Fr. Resectoscope Sheaths 27040 SL, 27050 SL and laser probes up to 0.8 mm
- 27056 LB **Same**, laser probes up to 1.5 mm

### Modular Working Elements

- 27056 LE **Laser Working Element**, for use with exchangeable laser probes with 24/26 Fr. resectoscope sheaths
- 27056 EA **Laser Guide Probe**, inner diameter 0.8 mm, exchangeable, for use with Laser Working Element 27056 LE
- 27056 EB **Same**, inner diameter 1.5 mm
- 27056 EC **Laser Guide Probe**, with retracting beaks, inner diameter 0.8 mm, exchangeable, for use with Laser Working Element 27056 LE
- 27056 ED **Same**, inner diameter 1.5 mm

## HF Enucleation

Working Element (bipolar)

- 27040 EBH **Electrotome**, bipolar, passive (cutting by means of a spring), movable thumb ring. In rest position the electrode tip is inside the sheath. including:

### Working Element

- 2x **Cutting Loops**, bipolar
- 2x **Coagulation Electrodes**, bipolar

### Bipolar High Frequency Cord

### Protection Tube

**For bipolar enucleation, only the passive Working Element (27040 EB) is suitable.**

## VapoEnucleation Electrodes

- 011169-10\* **VapoEnucleation Electrode**, bipolar, hemispherical, 24/26 Fr., sterile, for single use, package of 6, color code: yellow

## Morcellation

### Standard Instruments

- 27293 AA **HOPKINS® Wide-Angle Straight Forward Telescope 6°**, with angled eyepiece, **autoclavable**, fiber optic light transmission incorporated with working channel, with LUER-Lock connection for inflow, color code: green-red
- 27292 AMA **HOPKINS® Wide-Angle Straight Forward Telescope 6°**, with parallel eyepiece, **autoclavable**, fiber optic light transmission incorporated with working channel, with LUER-Lock connection for inflow, color code: green-red



**Further information on the KARL STORZ product portfolio is available in the Urology catalog.**

- 27040 SC **Adaptor**, for use with Telescopes 27293 AA and 27292 AMA with resectoscope outer sheaths of 27050 SC/SD
- 27040 LB **Adaptor**, for use with Telescopes 27293 AA and 27292 AMA with resectoscope outer sheaths of 27040 SL/SD and 27050 SL
- Motor Control Unit
- 27701001-1 UNIDRIVE® S III SCB**, urology set, UNIDRIVE® S III motor system, with integrated SCB module, power supply 100-120/230-240 VAC, 50/60 Hz, for use with DRILLCUT-X® II Morcellator Handpiece URO **27702050** and Morcellator Blade 27056 LM including:
- Mains Cord**
  - One-Pedal Footswitch**, two-stage
  - SCB Connecting Cable**, length 100 cm
- 27702050 DRILLCUT-X® II Morcellator Handpiece URO**, for use with UNIDRIVE® S III SCB
- 40712090 Handle**, adjustable, for use with DRILLCUT-X® II N shaver handpiece
- 41250 RA **Cleaning Adaptor**, LUER-Lock, for cleaning DRILLCUT-X®/DRILLCUT-X® II handpieces
- 27056 LM **Morcellator Blade**, straight, sterilizable, drop-shaped cutting window, outer window serrated, inner window double fenestrated and serrated, diameter 4 mm, length 40 cm, for use with DRILLCUT-X® II Shaver Handpiece **27702050**
- 41200 RA **Cleaning Adaptor**, LUER-Lock, for cleaning the inner and outer blades of DRILLCUT-X® accessories
- Suction
- UP 501S2 **S-PILOT® Set**, incl. control cable including:
- Connecting Cable**
  - Tubing Set Suction**, sterile, for single use, package of 10
- 25320001\*\* UNIMAT® 30**, suction pump set, power supply 230 VAC, 50/60 Hz including:
- Bacterial Filter**
  - Secretion Bottle**
  - Bottle Cap**
  - Connecting Tube**, short
  - Patient Tube**
  - Overflow Case**
  - Mains Cord**, length 300 cm
- 031457-10\* **Tubing Set**, for suction, sterile, for single use, package of 10, for use with S-PILOT®, for urology/gynecology
- 030306-04\* **Guardian Suction Canister**, 12 l, for single use, package of 4
- 030970-10\* **Tissue Trap Filter**, unsterile, for single use, package of 10, for use with Suction Canister 030306-04 and other suction bottle systems
- 030381-01 **Guardian LVC Roll Stand**, for 1 canister, 12 l

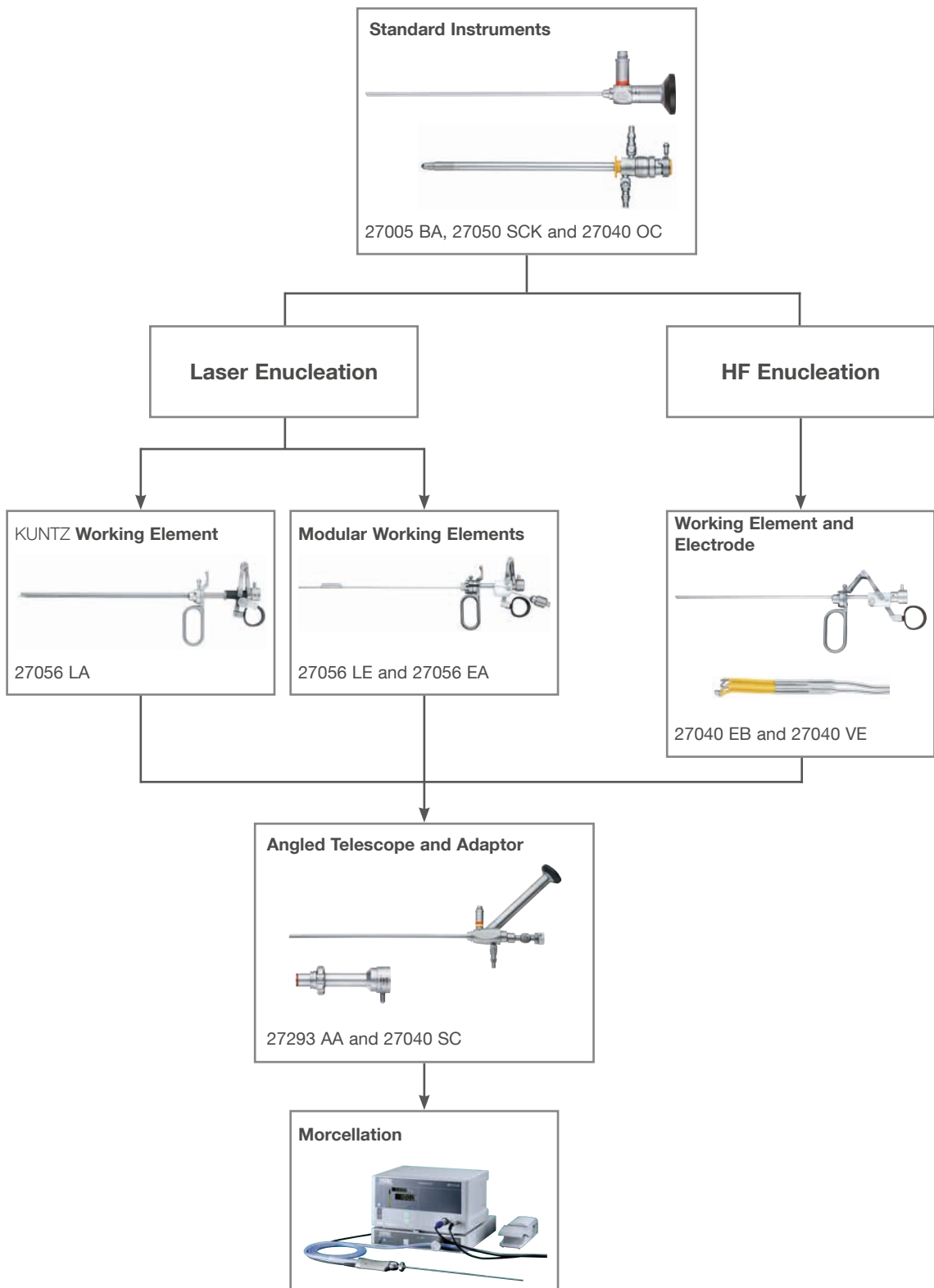


\*\* UNIMAT® 30 is not required when using the central suction system

**Further information on the KARL STORZ product portfolio is available in the Urology catalog.**



## System Components for Enucleation





## The New Flexible Video Cystoscope HD-VIEW

### The **H**ighest Standards by **D**efinition

The new flexible cystoscope is able to meet increasing demands on image quality in flexible cystoscopy as well as percutaneous applications. In addition, the new suction valve provides an effective method for rapid emptying of the bladder. The distal tip has been redesigned to enable smoother insertion.

- Noticeably higher resolution thanks to camera chip in high definition
- Integrated LED technology with automatic exposure
- Suction valve for rapid bladder evacuation
- Atraumatic 10.9 Fr. tip
- 7 Fr. working channel
- Detachable LUER port for better reprocessing

## Flexible Video Cystoscope

11272 VHK **Flexible Video Cystoscope HD-VIEW, Set**, with positive deflection mechanism, with suction channel and integrated light source, deflection of distal tip 210°/140°, direction of view 0°, angle of view 100°, working channel inner diameter 7 Fr., sheath size 16 Fr., working channel 37 cm, for use with IMAGE1 S CONNECT® II (TC 201) and IMAGE1 S™ X-LINK (TC 301)

including:

**LUER Port with Two Stopcocks**

**Cleaning Adaptor**, for working channel

**Seal with Drill Hole**, for working channel and connector

**Irrigation Adaptor**


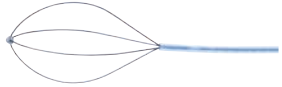





**Case**

**Leakage Tester**

**Pressure Compensation Cap**

11272 VHUK **Same**, with contrapositive deflection mechanism, with Double LUER Port 11014 LU

### Optional Accessories

		Reusable	For single use 
	<b>Stone Basket</b> , nitinol, <span style="border: 1px solid black; padding: 2px;">STERILE</span> without tip, straight, 3 Fr., length 70 cm, 4 wires, basket diameter 12 mm, sterile, for single use	–	27023 KF
	<b>Coagulation Electrode</b> , unipolar, 4 Fr., length 73 cm	27723 T	–
	<b>LUER Port with Two Stopcocks</b> , attachment to working channel, for the connection of irrigation tubing and the insertion of instruments	11014 L	–
	<b>Double LUER Port</b> , attachment to working channel, for the connection of irrigation tubing and the insertion of instruments	11014 LU	–
	<b>Suction Valve</b> , for use with Flexible Video Cystoscopes 11272 VH/VHU	11301 CB1	11301 CE1
	<b>Cleaning Brush</b> , with double-sided brush, length 90 cm, brush diameter 2.6 mm, unsterile, for single use, package of 50, for use with flexible endoscopes with working channel diameters 2-2.3 mm	–	110940-50



## A New Generation of Pressure-Controlled PCNL Systems

The revolutionary MIP system ensures atraumatic and effective stone treatment with fewer complications for all stone sizes.

- Innovative pressure management: All systems from the MIP series are designed as open systems
- Efficient stone retrieval: The “vacuum cleaner” hydrodynamic effect makes it possible to retrieve stones without forceps, graspers or stone baskets
- One-step dilation: Following a skin incision, the access tract is dilated in a single step
- Versatility: The right instrument is available for any kidney stone location and size
- Innovative applicator for direct closure and contrast agent injection: Access tracts to the kidney can be directly closed after stone retrieval using a gelatin-thrombin matrix applied with the aid of an applicator. In addition, the applicator can be used to inject contrast agent
- Application-oriented sheaths: For standard and supine techniques as well as pediatric interventions

### MIP M Set

- 27830 KAK **Nephroscope for MIP M**, with angled eyepiece, 12 Fr., 12°, length 22 cm, **autoclavable**, 1 working channel 6.7 Fr. for instruments up to 5 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths 27830 BA/BB/BC/BAS/BBS/BCS including:
- Insertion Aid**
  - Instrument Port with Sealing System and Quick Release Lock**
  - LUER-Lock Tube Connector**, male
  - LUER-Lock Tube Connector**, with stopcock
  - Seal**, package of 10
  - Wire Tray**
- 27001 GG **Instrument Port with Sealing System and Quick Release Lock**, large, 1 channel, for use with accessories up to 2 mm diameter in combination with Miniature Nephroscope for MIP M 27830 KA
- 27830 BB **Operating Sheath**, 16.5/17.5 Fr., working length 15 cm, for continuous irrigation and suction, for use with Nephroscope for MIP M 27830 KA, One Step Dilator 27830 AB and Applicator 27830 CF
- 27830 BBS **Operating Sheath**, for the supine position, 16.5/17.5 Fr., working length 18 cm, for continuous irrigation and suction, for use with Nephroscope for MIP M 27830 KA, One Step Dilator 27830 AB and Applicator 27830 CFS
- 27830 BK **Operating Sheath for Children**, 16.5/17.5 Fr., working length 7.5 cm, for continuous irrigation and suction, for use with Nephroscope for MIP M 27830 KA and One Step Dilator 27830 AB
- 27830 AB **One Step Dilator**, with central channel and a second eccentric channel for guide wires, for use with 16.5/17.5 Fr. Operating Sheaths 27830 BB/BBS/BK
- 27830 CF **Applicator for Sealant**, including sheath and rod, for use with Operating Sheaths 27830 BA/BB/BC
- 27830 CFS **Applicator**, for the supine position, including sheath and rod, for use with Operating Sheaths 27830 BAS/BBS/BCS

### MIP XS/S – Percutaneous Nephroscope

- 27820 KAK **Nephroscope for MIP XS/S**, with angled eyepiece, 7.5 Fr., 6°, length 24 cm, **autoclavable**, 1 working channel 2 Fr., 1 irrigation channel 3 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths 27820 BA/BB/BAS/BBS

### MIP L – Percutaneous Nephroscope

- 27840 KAK **Nephroscope for MIP L**, with angled eyepiece, 19.5 Fr., HOPKINS® rod lens system 12°, length 22 cm, **autoclavable**, 12.4 Fr. working channel for use with instruments up to 11.5 Fr., fiber optic light transmission incorporated, for use with Operating Sheaths 27840 BA/BB/BAS/BBS and Instrument Port 27840 GP/BK

**Further dilators, sheaths and applicators as well as accessories can be found in the Urology catalog.**



## We Realize Innovations – The Thin Uretero-Renoscope from KARL STORZ

With a new generation of uretero-renoscopes, KARL STORZ presents a future-oriented advancement in a new design. The even more slender sheath shape provides the instruments with excellent balance and ensures comfort and ergonomics. A much smoother tapered step ensures excellent gliding properties and allows the surgeon to treat patients easily and gently.

- Minimal sheath circumference
- Sheath with very smooth, long tapered step
- Excellent gliding properties for the highest patient comfort
- Large working channel for maximum irrigation performance
- Excellent view
- Atraumatic sheath end for easy insertion into the ureter

## Rigid Uretero-Renoscope

27000 LK **Uretero-Renoscope**, 7 Fr., 6°, length 43 cm, **autoclavable**, with angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 4.8 Fr., for use with instruments up to 4 Fr.

including:

**Insertion Aid**

**Instrument Port with Sealing System and Quick Release Lock**

**LUER-Lock Tube Connector**, male


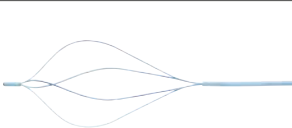
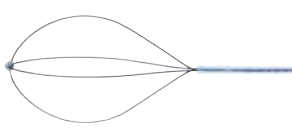

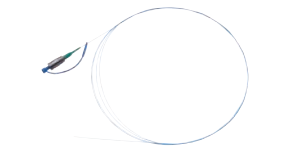


**LUER-Lock Tube Connector**, with stopcock

**Seal**, package of 10

**Flow Control Stopcock**

**Wire Tray**

### Optional Accessories

		Reusable	For single use 
	<b>Stone Basket</b> , nitinol, <span style="border: 1px solid black; padding: 2px;">STERILE</span> with tip, helical, 2.5 Fr., length 120 cm, 4 wires, basket diameter 16 mm, package of 1	–	27023 TD
	<b>Stone Basket</b> , nitinol, <span style="border: 1px solid black; padding: 2px;">STERILE</span> without tip, straight, 2.5 Fr., length 120 cm, 4 wires, basket diameter 16 mm, package of 3	–	27023 LD
	<b>Cytology Brush</b> , 3 Fr., unsterile, package of 5	–	27023 Y
	<b>CALCULASE III Fiber</b> , <span style="border: 1px solid black; padding: 2px;">STERILE</span> 230 µm, length 300 cm, package of 6, for use with CALCULASE III	UL 007 S5	UL 007 S5
	<b>Forceps</b> , rigid, for grasping stone fragments, double action jaws, 4 Fr., length 60 cm, color code: blue	27424 F	–
	<b>Biopsy Forceps</b> , rigid, double action jaws, 4 Fr., length 60 cm, color code: blue	27424 Z	–

Further rigid uretero-renaloscopes can be found in the Urology catalog.



## As Every Detail Counts – Visibly Higher Resolution with the Flexible Uretero-Renoscopes FLEX-X<sup>C</sup> and FLEX-X<sup>2S</sup>

KARL STORZ presents a new generation of flexible uretero-renaloscopes that enables you to benefit from proven properties such as minimal sheath circumference, excellent torque stability and maneuverability – now combined with a noticeably higher image resolution.

During the course of product development, it was possible to maximize the image quality of the FLEX-X<sup>C</sup> video uretero-renaloscope, while the number of fibers for the FLEX-X<sup>2S</sup> uretero-reno-fiberscope could be doubled.

A wide range of optional accessories such as stone baskets, laser fibers and guide wires rounds off the product portfolio.

### **Video Uretero-Renaloscope FLEX-X<sup>C</sup>:**

- Now with 2.6x higher image resolution
- Larger, clearer images at high zoom levels
- Optimized visualization with S-Technologies

### **Uretero-Reno-Fiberscope FLEX-X<sup>2S</sup>:**




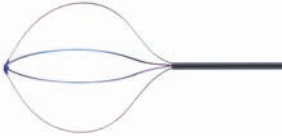

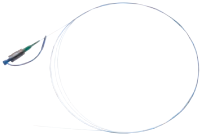

- Now with double fiber capacity
- True-to-detail image quality thanks to higher resolution

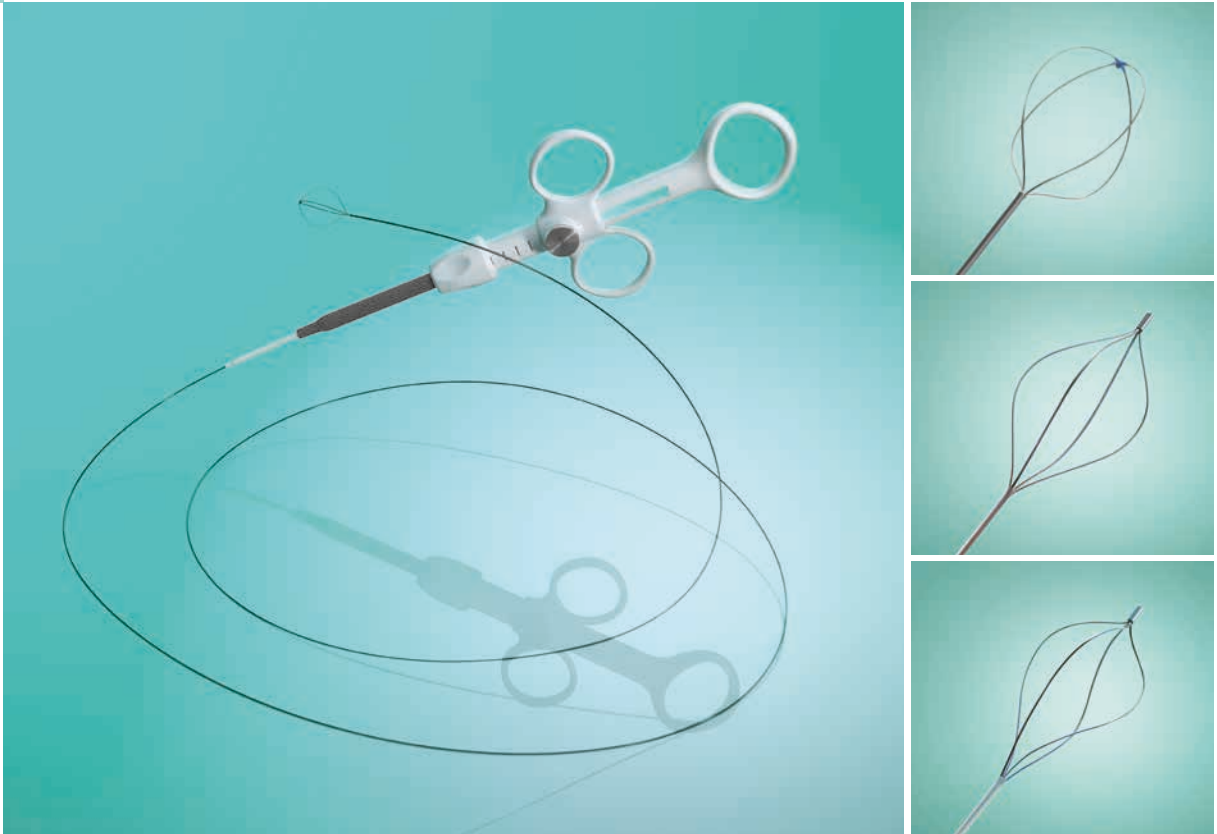


## Flexible Uretero-Renoscopes

- 11278 VSK **Video Uretero-Renoscope FLEX-X<sup>c</sup>, Set**, steerable, compatible with IMAGE1 S™, deflection of distal tip 270°/270°, direction of view 0°, angle of view 90°, working channel 3.6 Fr., sheath size 8.5 Fr., working length 70 cm
- 11278 AK1 **Uretero-Reno-Fiberscope FLEX-X<sup>2S</sup>, Set**, steerable, deflection of distal tip 270°/270°, direction of view 0°, angle of view 88°, working channel inner diameter 3.6 Fr., sheath size 7.5 Fr., working length 67 cm including:
- Case**
  - Pressure Compensation Cap**
  - Leakage Tester**
  - Cleaning Brush**
  - LUER-Adaptor**, with seal
  - 2x LUER-Lock Tube Connectors**
  - Sealing Cap**

### Optional Accessories

		Reusable	For single use 
	<b>Fiber Fixation Kit</b> , for the fixation of laser fibers in the working channels of flexible endoscopes up to diameter 1 mm including: <b>Fiber Fixation Cleaning Adaptor Seal</b> , package of 10	11014 YK	–
	<b>Endoscopic Seal</b> , <span style="border: 1px solid black; padding: 2px;">STERILE</span> for working channels of 3-7 Fr. instruments, package of 10	–	100010-10*
	<b>Stone Basket</b> , nitinol, without tip, straight, 1.9 Fr., length 120 cm, 4 wires, basket diameter 12 mm <span style="border: 1px solid black; padding: 2px;">STERILE</span>	–	27023 LB
	<b>Guide Wire</b> , 3 Fr., with ball end, package of 10 <span style="border: 1px solid black; padding: 2px;">STERILE</span>	–	27025 P
	<b>CALCULASE III Fiber</b> , <span style="border: 1px solid black; padding: 2px;">STERILE</span> 230 µm, length 300 cm, package of 6, for use with CALCULASE III	UL 007 S5	UL 004 S5
	<b>Cleaning Brush</b> , length 90 cm, brush diameter 1.7 mm, package of 50, for use with flexible endoscopes, with working channel diameters 1.2-1.5 mm	–	110930-50



## KARL STORZ Single-Use Stone Baskets

### The ideal stone basket for each requirement

The numerous indications and methods of application in stone therapy require stone baskets with various properties – a challenge that KARL STORZ meets with its new product line of nitinol stone baskets. The highly flexible nitinol wires allow baskets to adapt very easily to difficult anatomies and are also gentle on the working channel of your instruments.

**Nitinol stone baskets recommended for...**

... rigid cystoscopy

Order no.	Size	Form	Wires	Length
27023 TH	5 Fr.	with tip, straight	4	90 cm

... flexible cystoscopy and percutaneous nephrolithotomy

Order no.	Size	Form	Wires	Length
27023 KF	3 Fr.	without tip, straight	4	70 cm

... semirigid uretero-rensoscopy

Order no.	Size	Form	Wires	Length
27023 TD	2.5 Fr.	with tip, helical	4	120 cm
27023 LD	2.5 Fr.	without tip, straight	4	120 cm
27023 TF	3 Fr.	with tip, helical	4	120 cm
27023 LF	3 Fr.	without tip, straight	4	120 cm

... flexible uretero-rensoscopy

Order no.	Size	Form	Wires	Length
27023 LB	1.9 Fr.	without tip, straight	4	120 cm



## CALCULASE III – The End of the Stone Age

### 35 W holmium laser for urology

With the CALCULASE III, KARL STORZ is launching a new generation of desktop lasers on the market with an excellent price-performance ratio. Featuring a power rating of 35 W and optimized modes, such as the burst mode for reducing the repulsion of stone fragments, the laser offers everything required for successful lithotripsy.

- Improved performance of up to 35 Watts
- Enhanced energy spectrum from 0.2-4 Joules
- Higher frequency from 4-30 Hertz
- Optimized pulse modes
- RFID fiber identification
- 10" touch screen for ease of use

## 35 W Holmium Laser

UL 300-1 **CALCULASE III**, holmium laser system, power supply 230 VAC, 50/60 Hz

**The following accessories are included in delivery:**

**Mains Cord**

**One-Pedal Footswitch**

**Key Set**

**Remote Interlock Connector**

**Safety Goggles Ho:YAG LASER**, suitable for 2080 nm

**Ion Exchanger**

### Optional Accessories




27 750095 **Safety Goggles Ho:YAG LASER**, suitable for 2080 nm

27 750092 **Warning Sign**, German language, to designate laser areas

27 750093 **Warning Sign**, English language, to designate laser areas

27 750280 **Fiber Stripper Set**, sterilizable

### Laser Fibers

		reusable	for single use
	<b>CALCULASE III Fiber</b> , 230 µm, length 300 cm, package of 6, for use with CALCULASE III	<b>STERILE</b>  UL 007 S5	UL 004 S5
	<b>CALCULASE III Fiber</b> , 365 µm, length 300 cm, package of 6, for use with CALCULASE III	<b>STERILE</b>  UL 008 S5	UL 005 S5
	<b>CALCULASE III Fiber</b> , 600 µm, length 300 cm, package of 6, for use with CALCULASE III	<b>STERILE</b>  UL 009 S5	UL 006 S5

**NEW**

## IMAGE1 S™ 4U – mORe than a camera

The IMAGE1 S™ 4U camera system allows the operating surgeon to make optimal use of the benefits offered by 4K technology. A notable feature is the image quality: High image brightness, impressive colors, greater richness of detail and a significantly improved depth effect characterize this system. Thanks to the system's modularity, 4U components can be easily integrated into the existing IMAGE1 S™ camera platform. Consequently, the system is still compatible with existing technologies (e.g., rigid, flexible, fluorescence and 3D endoscopy) and can be adapted to meet individual customer needs.

- IMAGE1 S™ 4U impresses with outstanding, razor-sharp images
  - Excellent image brightness
  - First-rate color rendition
  - Greater richness of detail
- Three innovative visualization technologies for tissue differentiation:
  - CLARA: Homogeneous illumination
  - CHROMA: Contrast enhancement
  - SPECTRA\*: Spectral color shift and switch
- Easy integration into the IMAGE1 S™ camera platform

\* not for sale in the U.S.

- TC 201EN\* **IMAGE1 S CONNECT® II**, connect module, for use with up to 3 link modules, 4K technology, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz
- TC 304 **IMAGE1 S™ 4U-LINK**, link module, for use with IMAGE1 S™ 4U camera heads, power supply 100-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC 200 or IMAGE1 S CONNECT® II TC 201
- TH 120 **IMAGE1 S™ 4U One-Chip 4K UHD Camera Head**, S-Technologies available, progressive scan, soakable, EO sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 18 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK
- TM 440 **58" 4K Monitor**, screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 400 x 400 and VESA 400 x 200 adaptors
- TM 350 **32" 4K 3D Monitor**, screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, 5V DC output (1 A), wall mount with VESA 100 adaptor
- TM 342\*\* **31" 4K Monitor**, screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 100 and VESA 200 adaptors
- TL 300 **Cold Light Fountain POWER LED 300 SCB**, with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet, power supply 100-240 VAC, 50/60 Hz
- 495 NAC **Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, with safety lock, enhanced light transmission, can be used for ICG applications, diameter 3.5 mm, length 230 cm
- 495 NCSC **Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm
- 495 TIP **Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 300 cm

\* Also available in the following languages: DE, ES, FR, IT, PT, RU

\*\* TM 342 not available in USA, Japan & China

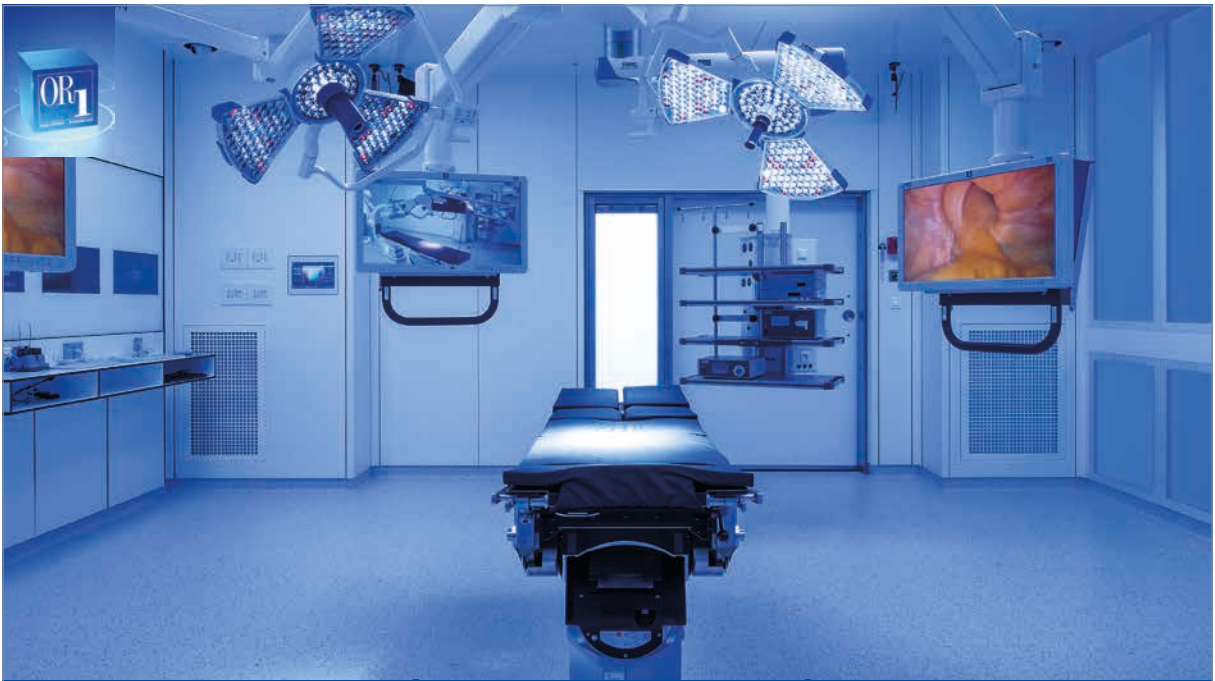
## Notes

A large grid of small plus signs (+) arranged in 25 rows and 30 columns, intended for taking notes.





## Imaging and OR Integration



Storage and administration of image and video data



SCENARA® .store

Flexible support for image sources



Centralized communication interface



SCENARA® .connect

OR1 88 1.0.01/2019/A-E

# KARL STORZ OR1™

Future-oriented integration meets innovative data management



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[www.karlstorz.com](http://www.karlstorz.com)

Further information and an overview  
of Urology products from KARL STORZ  
can be viewed on



[www.karlstorz.com](http://www.karlstorz.com)  
in the Human Medicine section,  
Urology

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



**STORZ**  
KARL STORZ—ENDOSKOPE

THE DIAMOND STANDARD



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