

# Highlights 2019

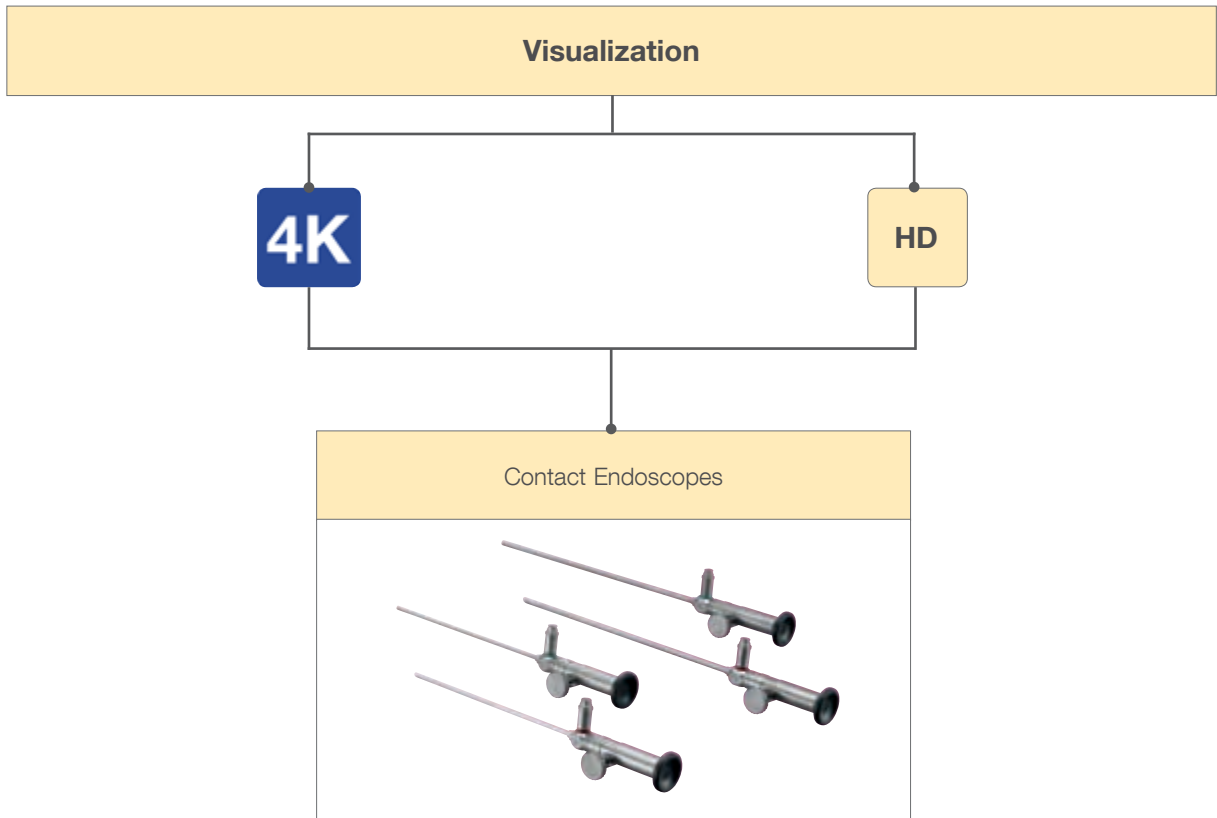
## Otorhinolaryngology



Contact Endoscopy



## Contact Endoscopy



## Instruments

Instrument Set for  
Transoral Micro Laryngoscopy





## Contact Endoscopes from KARL STORZ for Laryngoscopy and Rhinoscopy

For intraoperative, early detection of abnormal tissue

Contact endoscopes make it possible to better visualize the tissue structures of mucosa thanks to 60 or 150x magnification which can be adjusted via the rotating wheel on the contact endoscope. This allows a more precise evaluation of benign or malignant lesions.

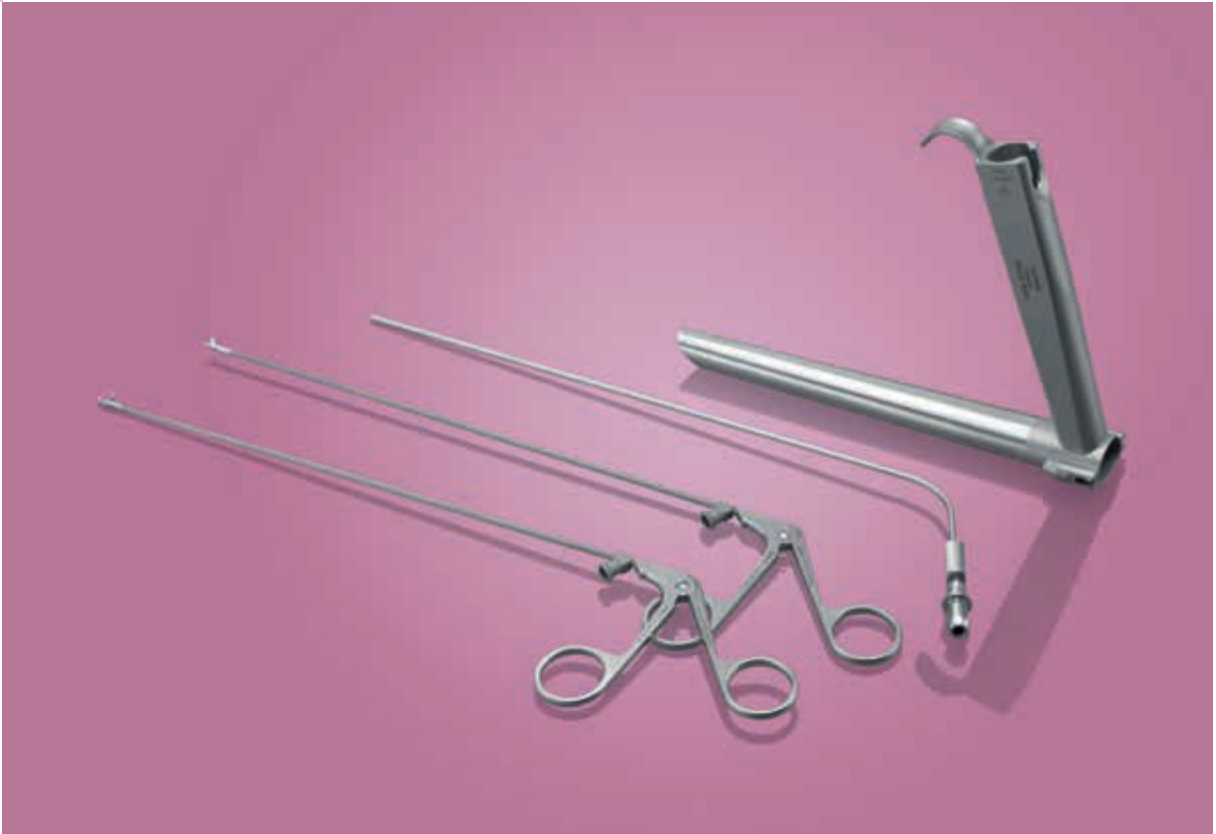
- Contact endoscopes available in 4 different models
- More precise optical evaluation of malignant or benign lesions
- Efficient use of contact endoscopes in combination with IMAGE1 S™ visualization modes
- Use of the vital dye methylene blue no longer mandatory thanks to IMAGE1 S™ visualization modes

### Contact Endoscopes for Laryngoscopy

- 8715 AA ANDREA/DIAS **Contact Micro Laryngoscope**, with HOPKINS® straight forward telescope 0°, magnification 1x, 60x, 150x, diameter 5.5 mm, length 23 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 8715 BA ANDREA/DIAS **Contact Micro Laryngoscope**, with HOPKINS® forward-oblique telescope 30°, magnification 1x, 60x, 150x, diameter 5.5 mm, length 23 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

### Contact Endoscopes for Rhinoscopy

- 7215 AA ANDREA/DIAS **Contact Micro Rhinoscope**, with HOPKINS® straight forward telescope 0°, magnification 1x, 60x, 150x, diameter 4 mm, working length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 7215 BA ANDREA/DIAS **Contact Micro Rhinoscope**, with HOPKINS® forward-oblique telescope 30°, magnification 1x, 60x, 150x, diameter 4 mm, working length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



## Instruments for Transoral Microlaryngoscopy

Contact endoscopy is mainly used in the field of transoral microlaryngoscopy. KARL STORZ offers a wide range of instruments for this indication which, combined with contact endoscopes, enables optimal treatment.

- 8590 B KLEINSASSER **Operating Laryngoscope**, for adults, large, length 17 cm
- 8590 C **Same**, medium
- 8590 DN **Same**, small, length 18 cm
- 8590 GF **Fiber Optic Light Carrier**, for distal illumination, working length 14 cm
- 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, support rod with metal ring, diameter 9 cm, length 34 cm
- 5x 8575 QS **Silicone Teeth Protector, autoclavable**, can also be used as inlay in metal teeth protector
- 8660 N KLEINSASSER **Needle Holder**, delicate, straight, serrated jaws, with ratchet, working length 23 cm
- 8660 L KLEINSASSER **Forceps**, robust model with oval jaws, size 3 x 4 mm, working length 23 cm
- 8594 A KLEINSASSER **Scissors**, straight, working length 23 cm
- 8593 A KLEINSASSER **Grasping Forceps**, without ratchet, serrated, straight, working length 23 cm
- 8594 B KLEINSASSER **Scissors**, angled 45°, working length 23 cm
- 8594 C **Same**, curved to right
- 8594 D **Same**, curved to left
- 8591 A KLEINSASSER **Forceps**, straight, with cupped jaws, 2 mm, working length 23 cm
- 8591 B **Same**, curved upwards
- 8591 C **Same**, curved to right
- 8591 D **Same**, curved to left
- 8597 KLEINSASSER **Handle**, for 8595 A – 8596 T
- 8596 A KLEINSASSER **Hook**, blunt, with probe end, working length 23 cm
- 8596 B **Same**, sharp
- 8596 T KLEINSASSER **Knot Tier**, working length 23 cm
- 8596 F KLEINSASSER **Ligature Needle**, curved to left, working length 23 cm
- 8596 E **Same**, curved to right
- 8595 C KLEINSASSER **Knife**, sickle-shaped, curved, pointed, working length 23 cm
- 8595 E **Same**, golf club-shaped, curved, round, working length 23 cm
- 8595 A **Same**, straight, oval
- 8596 H KLEINSASSER **Suction Raspatory**, working length 23 cm
- 8603 KLEINSASSER **Suction Tube**, outer diameter 2.5 mm, working length 23 cm
- 8598 B KLEINSASSER **Injection Needle**, LUER-Lock, straight, working length 23 cm
- 8605 N KLEINSASSER **Suction and Coagulation Cannula**, outer diameter 3 mm, working length 26 cm
- 26005 M **Unipolar High Frequency Cord**, with 5 mm plug, length 300 cm

**Recommended Container Accessories:**

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39753 A2 **Sterilization Container**, with MicroStop® microbiological barrier
- 39763 A2 **Coding Label**



**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



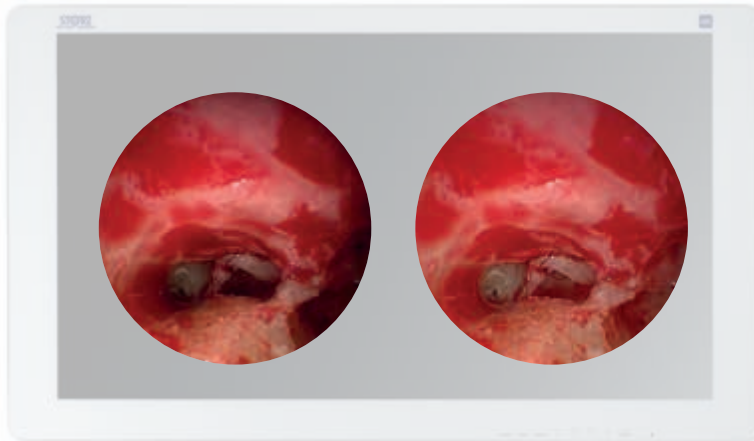
## IMAGE1 S™ – As Individual as Your Requirements

The IMAGE1 S™ camera platform offers surgeons a single system for all applications. As a modular camera platform, IMAGE1 S™ combines various technologies (e.g., rigid, flexible and 3D endoscopy) in one system and can therefore be adapted to individual customer needs. Furthermore, near infrared (NIR/ICG) for fluorescence imaging, the integration of operating microscopes and the use of VITOM® 3D is possible via the camera platform.

- Individual modules can be selected according to user requirements, e.g., for rigid, flexible and 3D technology
- Three innovative visualization technologies for easy tissue differentiation in 2D and 3D:
  - CLARA: Homogeneous illumination
  - CHROMA: Contrast enhancement
  - SPECTRA\*: Color shift and exchange
- Automatic light source control
- Natural color rendition

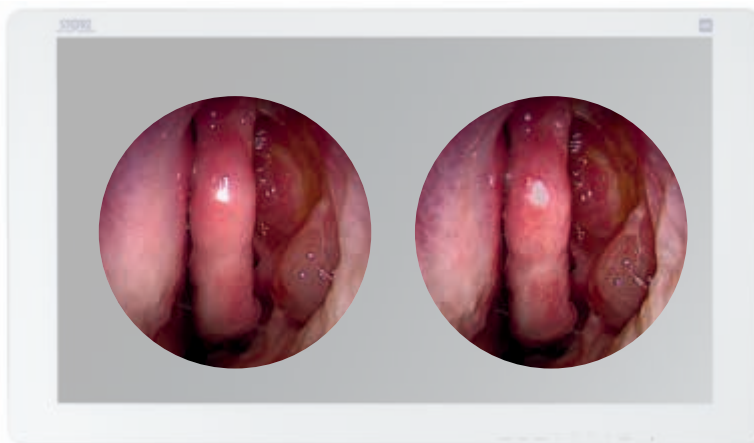
\* not for sale in the U.S.

Comparison of S-Technologies:



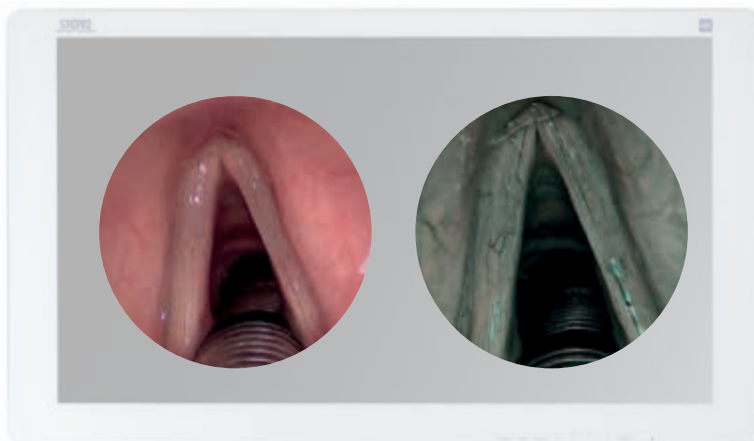
Standard image

CLARA



Standard image

CHROMA



Standard image

SPECTRA

- 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
- TC 302 **IMAGE1 S D3-LINK®**, link module, for use with TIPCAM®1 S 3D and VITOM® 3D power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC 200 or IMAGE1 S CONNECT® II TC 201
- TC 301 **IMAGE1 S™ X-LINK**, link module, for use with flexible video endoscopes and one-chip camera heads (up to FULL HD), power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC 200 or IMAGE1 S CONNECT® II TC 201
- TC 300 **IMAGE1 S™ H3-LINK**, link module, for use with IMAGE1 FULL HD three-chip camera heads, power supply 100-120 VAC/200-240 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, EU 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
- TH 113 **IMAGE1 S™ HX-P FI One-Chip FULL HD Pendulum Camera Head**, S-Technologies (CHROMA, SPECTRA\*\*\* A and B) available, OPAL1® technologies (PDD) in conjunction with light source D-LIGHT C or D-LIGHT C/AF, with pendulum system and fixed focus, progressive scan, soakable, EU sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK
- TH 110 **IMAGE1 S™ HX One-Chip FULL HD Camera Head**, 50/60 Hz, fixed focus, progressive scan, soakable, EU sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™
- TH 102 **IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head**, S-Technologies available, for perfusion diagnosis of tissues and organs with indocyanine green (ICG) in conjunction with light source D-LIGHT P, progressive scan, with integrated Parfocal Zoom Lens, focal length f = 15-31 mm (2x), 2 freely programmable camera head buttons, for use with IMAGE1 S™ H3-LINK and IMAGE 1 HUB™ HD/IMAGE1 HD
- TH 100 **IMAGE1 S™ H3-Z Three-Chip FULL HD Camera Head**, 50/60 Hz, S-Technologies available, progressive scan, soakable, EU sterilization, H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), with integrated Parfocal Zoom Lens, focal length f = 15-31 mm (2x), 2 freely programmable camera head buttons, for use with IMAGE1 S™ H3-LINK TC 300 and IMAGE 1 HUB™ HD/IMAGE1 HD
- 7240 AA3D **TIPCAM®1 S 3D ORL**, direction of view 0°, diameter 4 mm, length 18 cm, two FULL HD image sensors, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™
- 26605 BA **Same**, direction of view 30°
- 7240 FA3D **Same**, direction of view 45°
- TH 200 **VITOM® 3D**, with zoom and focus function, integrated illumination and horizontal alignment, working distance 20-50 cm, fiber optic light transmission incorporated, suitable for wipe disinfection, for use with IMAGE1 S D3-LINK® TC 302 and IMAGE1 PILOT TC 014

- TC 014 **IMAGE1 PILOT**, control unit with 3D wheel, 4 programmable function keys and USB port, for intuitive control of camera systems and connected units, for use with IMAGE1 S™ and VITOM® 3D TH 200
- TM 440 **58" 4K Monitor**, screen resolution 3840 x 2160, image format 16:9
- TM 350 **32" 4K/3D Monitor**, screen resolution 3840 x 2160, image format 16:9
- TM 342\*\* **31" 4K Monitor**, screen resolution 3840 x 2160, image format 16:9
- TM 220 **27" FULL HD Monitor**, screen resolution 1920 x 1080, image format 16:9
- TL 300 **Cold Light Fountain POWER LED 300 SCB**, with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet
- 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 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

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

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

\*\*\* not for sale in the U.S.

## 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

**STORZ**  
KARL STORZ — ENDOSKOPE  
THE DIAMOND STANDARD

KARL STORZ SE & Co. KG, Dr.-Karl-Storz-Straße 34, 78532 Tuttlingen/Germany  
[www.karlstorz.com](http://www.karlstorz.com)

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



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

**Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.**

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



**STORZ**  
KARL STORZ—ENDOSKOPE

THE DIAMOND STANDARD



KARL STORZ SE & Co. KG  
Dr.-Karl-Storz-Straße 34, 78532 Tuttlingen/Germany  
Postbox 230, 78503 Tuttlingen/Germany  
Phone: +49 (0)7461 708-0  
Fax: +49 (0)7461 708-105  
E-Mail: [info@karlstorz.com](mailto:info@karlstorz.com)  
[www.karlstorz.com](http://www.karlstorz.com)