Contact Endoscopy

Visualization

4K

HD

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

**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
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, H₂O₂ (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 100-240 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, H₂O₂ (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, OPALᵀᴹ 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, H₂O₂ (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, H₂O₂ (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 HUBᵀᴹ 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, H₂O₂ (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 HUBᵀᴹ 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

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Imaging and OR Integration

KARL STORZ OR1™
Future-oriented integration meets innovative data management

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www.karlstorz.com
Further information and an overview of Otorhinolaryngology from KARL STORZ can be viewed on www.karlstorz.com in the Human Medicine section, Otorhinolaryngology.