Contact Endoscopy

Visualization

4K

Contact Endoscopes

HD
Instruments

Instrument Set for Transoral Micro Laryngoscopy
Contact Endoscopes from KARL STORZ for Laryngoscopy

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

8715AA 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

8715BA 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

7215AA 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

7215BA 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

Wire Tray, for cleaning, sterilization and storage, stackable, with hole plate walls

Lid

Silicone Grid Insert LARGE DIAMOND GRID

Fixation Pin, package of 12

Silicone Tie-Downs, package of 12
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 appropriate treatment.
8590B  KLEINSASSER Operating Laryngoscope, for adults, large, length 17 cm
8590C    Same, medium
8590DN   Same, small, length 18 cm
8590GF   Fiber Optic Light Carrier, for distal illumination, working length 14 cm
8575K    Laryngoscope Holder and Chest Support, GÖTTINGEN model, support rod with metal ring, diameter 9 cm, length 34 cm
5x 8575QS Silicone Teeth Protector, autoclavable, can also be used as inlay in metal teeth protector
8660N    KLEINSASSER Needle Holder, delicate, straight, serrated jaws, with ratchet, working length 23 cm
8660L    KLEINSASSER Forceps, robust model with oval jaws, size 3 x 4 mm, working length 23 cm
8594A    KLEINSASSER Scissors, straight, working length 23 cm
8593A    KLEINSASSER Grasping Forceps, without ratchet, serrated, straight, working length 23 cm
8594B    KLEINSASSER Scissors, angled 45°, working length 23 cm
8594C    Same, curved to right
8594D    Same, curved to left
8591A    KLEINSASSER Forceps, straight, with cupped jaws, 2 mm, working length 23 cm
8591B    Same, curved upwards
8591C    Same, curved to right
8591D    Same, curved to left
8597     KLEINSASSER Handle, for 8595A – 8596T
8596A    KLEINSASSER Hook, blunt, with probe end, working length 23 cm
8596B    Same, sharp
8596T    KLEINSASSER Knot Tier, working length 23 cm
8596F    KLEINSASSER Ligature Needle, curved to left, working length 23 cm
8596E    Same, curved to right
8595C    KLEINSASSER Knife, sickle-shaped, curved, pointed, working length 23 cm
8595E    Same, golf club-shaped, curved, round, working length 23 cm
8595A    Same, straight, oval
8596H    KLEINSASSER Suction Raspatory, working length 23 cm
8603     KLEINSASSER Suction Tube, outer diameter 2.5 mm, working length 23 cm
8598B    KLEINSASSER Injection Needle, Luer-Lock, straight, working length 23 cm
8605N    KLEINSASSER Suction and Coagulation Cannula, outer diameter 3 mm, working length 26 cm
26005M   Unipolar High Frequency Cord, with 5 mm plug, length 300 cm

Recommended Container Accessories:
2x 39502Z  Wire Tray for Cleaning, Sterilization and Storage
39753A2   Sterilization Container, with MicroStop® microbiological barrier
39763A2   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.
TC201EN* IMAGE1 S CONNECT® II, connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS HIVE and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz

TC304 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® TC200 or IMAGE1 S CONNECT™ II TC 201

TH121 IMAGE1 S™ 4U RUBINA, OPAL1® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA, OPAL1® NIR/ICG, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK

TH120 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

TM440 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 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

TM450 55" 4K/3D Monitor, screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, 100-240 VAC, 50/60 Hz, wall mount with VESA 200 and VESA 300 adaptors

TM009 Signal Converter Set, 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450

Suitable equipment cart for TM440 and TM450:

WA10007 OR1™ Cart for Monitor, Set, height-adjustable, for 42-64" monitor, VESA pattern min. 100/100, max. 400/400, monitor weight max. 60 kg, monitor holder height-adjustable on 1.8 m high column, four castors, floor area (in mm): 980 x 830, total height: 1.95 m

TM350 32" 4K 3D Monitor, screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 100 adaptor

TL400 Cold Light Fountain POWER LED RUBINA, for NIR/ICG fluorescence imaging and standard endoscopic diagnosis, with two LEDs and one KARL STORZ light cable connection, with integrated unit communication via KS HIVE, power supply 100-125/220-240 VAC, 50/60 Hz

TL300 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

495NAC 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

495NCSC Same, diameter 4.8 mm, length 250 cm

495TIP Same, diameter 4.8 mm, length 300 cm

* Also available in the following languages: DE, ES, FR, IT, PT, RU
** TM342 not available in USA, Japan & China
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**

* not for sale in the U.S.
TC201EN*  IMAGE1 S CONNECT® II, connect module, for use with up to 3 link modules, resolution 3840 x 2160 and 1920 x 1080 pixels, with integrated KARL STORZ-SCB or KS Hive and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz

TC304  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® TC200 or IMAGE1 S CONNECT® II TC201

TC302  IMAGE1 S D3-LINK®, link module, for use with TIPCAM® S 3D and VITOM® 3D, power supply 100-120 VAC/200-240 VAC, 50/60 Hz, for use with IMAGE1 S CONNECT® TC200 or IMAGE1 S CONNECT® II TC201

TC301  IMAGE1 S™ X-LINK, link module, for use with flexible videoendoscopes 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® TC200 or IMAGE1 S CONNECT® II TC201

TC300  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® TC200 or IMAGE1 S CONNECT® II TC201

TH120  IMAGE1 S™ One-Chip 4K UHD Camera Head, S-Technologies available, progressive scan, soakable, EO sterilizable, H₂O₂ (hydrogen peroxide), focal length f = 18 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ 4U-LINK

TH121  IMAGE1 S™ 4U RUBINA™, OPAL¹® NIR/ICG, two-chip 4K UHD camera head, S-Technologies available, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA™, OPAL¹® NIR/ICG, progressive scan, low-temperature sterilization, focal length f = 19 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK

TH113  IMAGE1 S™ HX-P FI One-Chip FULL HD Pendulum Camera Head, S-Technologies (CHROMA, SPECTRA**** A and B) available, OPAL¹® technologies (PDD) in combination with light source D-LIGHT C or D-LIGHT C/AF, with pendulum system and fixed focus, progressive scan, soakable, EO sterilizable, H₂O₂ (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK

TH110  IMAGE1 S™ HX One-Chip FULL HD Camera Head, 50/60 Hz, fixed focus, progressive scan, soakable, gas and plasma sterilizable, focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK

TH102  IMAGE1 S™ H3-Z FI Three-Chip FULL HD Camera Head, for white light applications and the identification of anatomical structures 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

TH100  IMAGE1 S™ Three-Chip FULL HD Camera Head, 50/60 Hz, S-Technologies available, progressive scan, soakable, EO sterilizable, 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 TC300 and IMAGE 1 HUB HD/IMAGE1 HD

26606ACA  TIPCAM® RUBINA™, OPAL¹® NIR/ICG, 4K/3D, high-resolution videoendoscope with two distal integrated video chips, for NIR/ICG fluorescence imaging in combination with POWER LED RUBINA™, OPAL¹® NIR/ICG and Sync Connecting Cable TL006, direction of view 0°, diameter 10 mm, length 32 cm, autoclavable, S-Technologies available, freely programmable camera head buttons, including video connection cable, for use with IMAGE1 S CONNECT® II and IMAGE1 S™ 4U-LINK

26606BCA  Same, direction of view 30°
26605AA  **TIPCAM®1 S 3D LAP**, with two FULL HD image sensors, direction of view 0°, diameter 10 mm, length 32 cm, **autoclavable**, S-Technologies available, freely programmable camera head buttons, including video connecting cable, for use with IMAGE1 S™

26605BA  **Same**, direction of view 30°

7240AA3D  **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™

7240BA3D  **Same**, direction of view 30°

7240FA3D  **Same**, direction of view 45°

28164AA3D**  **TIPCAM®1 S 3D NEURO**, 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 D3-LINK®

28164BA3D**  **Same**, direction of view 30°

28164FA3D**  **Same**, direction of view 45°

TH200  **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® TC302 and IMAGE1 PILOT TC014

TC014  **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 TH200

TM440  58" 4K Monitor, screen resolution 3840 x 2160, image format 16:9

TM342***  31" 4K Monitor, screen resolution 3840 x 2160, image format 16:9

TM450  55" 4K/3D Monitor, screen resolution 3840 x 2160, image format 16:9

TM009  **Signal Converter Set**, 12G-SDI – 4x 3G-SDI, for use with 55" 4K/3D Monitor TM450

TM350  32" 4K/3D Monitor, screen resolution 3840 x 2160, image format 16:9

TM220  27" FULL HD Monitor, screen resolution 1920 x 1080, image format 16:9

TL300  **Cold Light Fountain POWER LED 300**, with integrated KARL STORZ-SCB, high-performance LED module and one KARL STORZ light outlet

495NCSC  **Fiber Optic Light Cable**, with straight connector, extremely heat-resistant, enhanced light transmission, with safety lock, diameter 4.8 mm, length 250 cm

495NAC  **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

** Currently not available on CE markets

*** TM342 not available in USA, Japan & China

**** not for sale in the U.S.
It is recommended to check the suitability of the product for the intended procedure prior to use. Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.