Contact Endoscopes
Contact Endoscopes from KARL STORZ for Laryngoscopy and Rhinoscopy

Contact endoscopy is used to examine the mucosa for premalignant, malignant and benign lesions whereby the tip of the contact endoscope is placed on the mucosa. 60 or 150x magnification, which can be adjusted via the rotating wheel on the contact endoscope, allows significantly better visualization of the vessel structures of the micro-vascular system than standard endoscopes. Potential application areas in the field of ENT medicine are the intraoperative evaluation of premalignant, malignant and benign lesions of the larynx as well as the upper respiratory and aerodigestive tracts in transoral micro laser surgery. Moreover, contact endoscopes are suitable for preoperative identification in the case of suspected vascular lesions on the floor of the mouth and the oropharynx. In endoscopic-endoonasal surgery, the scopes are used to examine the nasal mucosa for malignant and benign tissue changes.

In combination with the IMAGE1 S™ camera system, the efficiency of the intervention can be increased as the previous application of the vital dye methylene blue for staining tissue affected by a tumor is no longer mandatory. The color filters of the IMAGE1 S™ visualization modes allow a more accurate visualization of diverse tissue structures without the need for additional dye, making a more precise assessment of malignant tissue changes possible. The SPECTRA A**, SPECTRA B** and CLARA + CHROMA visualization modes are available to the operating surgeon.
The listed benefits for the use of contact endoscopes in conjunction with the IMAGE1 S™ camera system were determined within the scope of a study carried out in cooperation with Prof. Roberto Puxeddu from the University Clinic in Cagliari (Italy). The following example images are also part of this study.

* Neoangiogenesis refers to the formation of blood vessels in tumor tissue; these supply the tumors and enable their growth.

** SPECTRA A: Pending 510(k) Clearance. Not available for sale in the U.S.
** SPECTRA B: Pending 510(k) Clearance. Not available for sale in the U.S.
ANDREA/DIAS **Contact Micro-Rhinoscope**, with HOPKINS® straight forward telescope 0°, magnification 1x, 60x, 150x, diameter 4 mm, length 23 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

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

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

ANDREA/DIAS **Contact Micro-Rhinoscope**, with HOPKINS® forward-oblique telescope 30°, magnification 1x, 60x, 150x, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
IMAGE1 S™ 4U – mORe than a camera

** 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

** 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

** 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

** 31" 4K Monitor, screen resolution 3840 x 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall-mounted with VESA 100 and VESA 200 adaptors

* Also available in the following languages: DE, ES, FR, IT, PT, RU
** TM 342 not available in USA, Japan & China
20 1614 01-1 **Cold Light Fountain Power LED 175 SCB**, with integrated KARL STORZ-SCB, high-performance LED and one KARL STORZ light outlet, power supply 110-240 VAC, 50/60 Hz, including:
- **Mains Cord**
- **SCB Connecting Cable**

495 ND **Fiber Optic Light Cable**, with straight connector, diameter 3.5 mm, length 300 cm

39502 Z **Wire Tray**, for cleaning, sterilization and storage of instruments, stackable, including hole plate walls and foldaway handles

39502 L **Lid**

39100 S **Silicone Grid Insert LARGE DIAMOND GRID**

39100 PS **Fixation Pins**, package of 12

39360 AS **Silicone Tie-Downs**, package of 12
It is recommended to check the suitability of the product for the intended procedure prior to use.