Highlights 2020
Otorhinolaryngology

Solutions for Frontal Sinus Surgery
Solutions for Frontal Sinus Surgery

Visualization

4K
2D
3D

Rigid Endoscopes
TIPCAM®1 S 3D ORL 45°

Lens Irrigation System
ENDOMAT® SELECT

Dissection

Motor System

Instruments

UNIDRIVE® S III ENT

Instruments for Frontal Sinus Surgery

DRILLCUT® II-35

Sinus Burr 35k
Sinus Burr 12k
Shaver Blades
Bleeding Management

- Bipolar Coagulation

Navigation

- NAV1® ELECTROMAGNETIC
- NAV1® OPTICAL
- NAV1® SINUSTRACKER™
Endoscopes and Instruments for Frontal Sinus Surgery

The endonasal approach to the frontal sinuses requires a high level of anatomical knowledge and surgical skills. The appropriate endoscopes and the right instruments are therefore of utmost importance. The special instruments developed for frontal sinus surgery take these anatomic conditions into account.

- 45° endoscopes available in two versions: A standard version and one with a lateral cable connection
- Endoscope diameter of 4 mm or 2.7 mm
- A large selection of upturned instruments
- Circular cutting punch for resecting horizontally oriented bony lamellae
HOPKINS® Forward-Oblique Telescope 45°, enlarged view, autoclavable

7230FA  HOPKINS® Forward-Oblique Telescope 45°*, enlarged view, diameter 4 mm, length 18 cm, autoclavable, fiber optic light transmission incorporated, color code: black

7229FA  HOPKINS® Forward-Oblique Telescope 45°*, enlarged view, diameter 2.7 mm, length 18 cm, autoclavable, fiber optic light transmission incorporated, color code: black

7230FLA  HOPKINS® Forward-Oblique Telescope 45°*, enlarged view, diameter 4 mm, length 18 cm, autoclavable, fiber optic light cable on the left, fiber optic light transmission incorporated, color code: black

Sickle Knife, Frontal Sinus Curettes and Antrum Cannulas

628001  Sickle Knife, pointed, length 19 cm

628712  KUHN-BOLGER Frontal Sinus Curette, curved 55°, oval, forward cutting, length 19 cm

628714  KUHN-BOLGER Frontal Sinus Curette, curved 90°, oval, forward cutting, length 19 cm

586125  Antrum Cannula, Luer-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm

586130  Antrum Cannula, Luer-Lock, long curved, malleable, serrated grip plate, outer diameter 3 mm, length 12.5 cm

STAMMBERGER Punches, circular cutting

651055  STAMMBERGER Punch, circular cutting, for sphenoid, ethmoid and choanal atresia, with cleaning connector, punch head diameter 3.5 mm, working length 18 cm

651050  Same, diameter 4.5 mm
651060  STAMMBERGER Punch, circular cutting, 65° upturned, for frontal sinus recess, with cleaning connector, punch head diameter 3.5 mm, working length 17 cm

651065  Same, punch head diameter 4.5 mm

651057  STAMMBERGER Punch, circular cutting, 60° cutting direction from distal above to proximal below, egg-shaped tip, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, punch head diameter 3.5 mm, working length 18 cm

651058  STAMMBERGER Punch, circular cutting, 120° cutting direction from distal above to proximal below, egg-shaped tip, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, punch head diameter 3.5 mm, working length 18 cm

651052  STAMMBERGER Punch, circular cutting, 60° cutting direction from distal above to proximal below, egg-shaped tip, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, punch head diameter 4.5 mm, working length 18 cm

651053  STAMMBERGER Punch, circular cutting, 120° cutting direction from distal above to proximal below, egg-shaped tip, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, punch head diameter 4.5 mm, working length 18 cm

651061  STAMMBERGER Punch, circular cutting, 90° cutting direction, egg-shaped tip, sheath 65° upturned, for frontal sinus recess, with cleaning connector, punch head diameter 3.5 mm, working length 17 cm

651066  STAMMBERGER Punch, circular cutting, 90° cutting direction, egg-shaped tip, sheath 65° upturned, for frontal sinus recess, with cleaning connector, punch head diameter 4.5 mm, working length 17 cm

651050R  Cleaning Instrument, for circular cutting punches type 651050/651055/651060/651065, double-ended, length 14 cm

STAMMBERGER RHINOFORCE® II Forceps

651010  STAMMBERGER RHINOFORCE® II Double Spoon Forceps, vertical opening, 65° upturned, spoon diameter 3 mm, with cleaning connector, working length 12 cm

651020  STAMMBERGER RHINOFORCE® II Double Spoon Forceps, horizontal opening, 65° upturned, spoon diameter 3 mm, with cleaning connector, working length 12 cm
BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps, curved to right 45°

456601B BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps, curved to right 45°, size 1, with cleaning connector, working length 13 cm

GRÜNWALD-HENKE RHINOFORCE® II Nasal Cutting Forceps

451000B GRÜNWALD-HENKE RHINOFORCE® II Nasal Cutting Forceps, straight, through-cutting, tissue-sparing, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm
451500B GRÜNWALD-HENKE RHINOFORCE® II Nasal Cutting Forceps, 45° upturned, through-cutting, tissue-sparing, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm

Further Frontal Sinus Punches

651503 HOSEMANN Frontal Sinus/Recess Punch, 70° upturned, slender model, punch head diameter 3.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 2.5 mm, integrated irrigation channel with LUER-Lock, working length 13 cm
651522 Frontal Sinus Punch, with link chain sheath 70° upturned, backward cutting, to reduce the spina nasalis superior, medium (standard size), jaws 3.5 x 3 mm, working length 13 cm
Management of Bleeding

Bleeding in the operative field impairs the view of the operation site and can, depending on the extent of bleeding, pose a risk to the health of the patient. Only successful hemostasis – Surgical Bleeding Management – makes it possible to continue surgery and to prevent complications caused by poor visibility.
STAMMBERGER **Bipolar Suction Forceps**

461010  **STAMMBERGER Bipolar Suction Forceps**, 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002E or 847002M/V/U/W

461015  **STAMMBERGER Bipolar Suction Forceps**, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002E or 847002M/V/U/W

**Suction Cannulas**

839330  **BRINER Bipolar Coagulation Suction Cannula**, angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000E or 847000M/V/W

839325  **BRINER Bipolar Coagulation Suction Cannula**, angular, insulated, length of electrodes 3.2 mm, with cut-off hole, outer diameter 3.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000 or 847000A/E/M/V

839320  **BRINER Bipolar Coagulation Suction Cannula**, curved upwards, insulated, length of electrodes 3.2 mm, with cut-off hole, outer diameter 3.5 mm, working length 16 cm, for use with Bipolar High Frequency Cords 847000 or 847000E/M/V/W

839310N  **Coagulation Suction Cannula**, for the nose, straight, outer diameter 3 mm, working length 10 cm

839312  **SIMMEN Coagulation Suction Cannula**, for nose and epistaxis, angular, insulated, malleable, distal with uninsulated horn for coagulation, with cut-off hole, outer diameter 3.5 mm, working length 12 cm, for use with Unipolar High Frequency Cords 26005M, 26004M, 26002M, 26006M

839313  **SIMMEN Coagulation Suction Cannula**, for nose and epistaxis, angular, insulated, malleable, distal with uninsulated horn for coagulation, with cut-off hole, outer diameter 4.5 mm, working length 12 cm, for use with Unipolar High Frequency Cords 26005M, 26004M, 26002M, 26006M

**Coagulation Forceps with Bridge**

844524  **Bipolar Forceps**, bayonet-shaped, with bridge, tip 0.7 mm, length 23 cm

844525  **Bipolar Forceps**, bayonet-shaped, angled, with bridge, tip 0.7 mm, length 23 cm

**TAKE-APART® Bipolar Forceps**

462020  **TAKE-APART® CASTELNUOVO Bipolar Forceps**, with fine jaws, distally angled 45°, with irrigation connector for cleaning, width 2 mm, outer diameter 3.4 mm, working length 14 cm including:

- **Bipolar Ring Handle**
- **Outer Sheath**
- **Inner Sheath**
- **Bipolar Forceps Insert**

462023  **TAKE-APART® CASTELNUOVO Bipolar Forceps**, with fine, short jaws, distally angled 45°, with irrigation connector for cleaning, width 2 mm, outer diameter 3.4 mm, working length 14 cm including:

- **Bipolar Ring Handle**
- **Outer Sheath**
- **Inner Sheath**
- **Bipolar Forceps Insert**
UNIDRIVE® S III ENT

One unit – six functions

- Shaver
- Sinus Burr (up to 35,000 rpm)
- High-speed Micro Motor
- High-performance EC Micro Motor II
- Micro Saw
- Dermatome
40701601-1  UNIDRIVE® S III ENT SCB, motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and integrated SCB module, power supply 100-240 VAC, 50/60 Hz including:
- Mains Cord
- Irrigator Rod
- Two-Pedal Footswitch
- SCB Connecting Cable, length 100 cm
- Single-use Tubing Set*, sterile, package of 3

Optional Accessories

280053  Universal Spray, 6x 500 ml bottles, - HAZARDOUS GOODS – UN 1950
  including:
  - Spray Nozzle

280053C  Spray Nozzle, for the reprocessing of INTRA burr handpieces, for use with Universal Spray 280053B

031131-10*  Tubing Set, sterile, for single use, package of 10, for use with UNIDRIVE® ENT/ECO/NEURO, UNIDRIVE® S III ENT/ECO/NEURO

* STERILE
DRILLCUT-X® II-35 – When Power Meets Precision

Handpiece for the UNIDRIVE® S III ENT motor system

The DRILLCUT-X® II-35 handpiece, in conjunction with the 35k sinus burrs, represents an innovative addition to the KARL STORZ product portfolio and is specially optimized for the highest speeds.

- Up to 35,000 rpm
- Five different burr inserts available
- Handpiece and burr inserts can be used with the existing UNIDRIVE® S III ENT motor system
- Handpiece can also be used with shaver attachments
40712035 DRILLCUT-X® II-35 Shaver Handpiece, for use with UNIDRIVE® S III ENT/NEURO
40712535 DRILLCUT-X® II-35 N Shaver Handpiece, with adaptation possibilities for Optical Shaver Tracker 40800122, for use with UNIDRIVE® S III ENT/NEURO and NAV1® PICO or NAV1® OPTICAL
40712090 Handle, adjustable, for use with DRILLCUT-X® II N shaver handpiece

Optional Accessories
41250RA Cleaning Adaptor, LUER-Lock, for cleaning DRILLCUT-X®/DRILLCUT-X® II/DRILLCUT-X® II-35 handpieces
39550A Wire Tray, provides safe storage of accessories for KARL STORZ paranasal sinus shaver systems during cleaning and sterilization, for storage of up to 7 shaver attachments and a connecting cable

<table>
<thead>
<tr>
<th>Detail</th>
<th>Sinus Burr 35k, with integrated irrigation, length 12 cm, sterile, for single use, package of 5, color code: red</th>
</tr>
</thead>
<tbody>
<tr>
<td>41335RN</td>
<td>curved 15º, bud drill, burr diameter 4 mm, shaft diameter 4 mm</td>
</tr>
<tr>
<td>41335W</td>
<td>curved 40º, cylindrical, burr diameter 3 mm, shaft diameter 4 mm</td>
</tr>
<tr>
<td>41335DW</td>
<td>curved 40º, diamond head, burr diameter 5 mm, shaft diameter 4 mm</td>
</tr>
<tr>
<td>41335DS</td>
<td>curved 40º, diamond head, burr diameter 4 mm, shaft diameter 4 mm</td>
</tr>
<tr>
<td>41335DT</td>
<td>curved 70º, diamond head, burr diameter 3.6 mm, shaft diameter 4 mm</td>
</tr>
</tbody>
</table>

12k Sinus Burrs and Shaver Blades can be found in the ENT catalog.
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, \(H_2O_2\) (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™ X-LINK 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™ X-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®1 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.
ENDOMAT® SELECT – The Choice is Yours

ENDOMAT® SELECT is an interdisciplinary roller pump for the irrigation or suction of fluids during surgical and diagnostic procedures. Depending on customer preferences, the pump can be equipped with various software packages so that it can be used for either individual or multiple disciplines.

Benefits at a glance:

- Cost-efficient pump as modular design supports basic functionality across various fields of application
- Easy handling thanks to tubing set for single hand control
- Safe use thanks to tubing set recognition
- Seamless integration into existing systems
- Software allows fields of application to be expanded at any time
UP210  **ENDOMAT® SELECT SCB,**
suction and irrigation pump, incl. mains cord,
power supply 100-240 VAC, 50/60 Hz

UP601  **SURGERY Software,** license,
allows selection of the procedures “LAP”, “THOR” and “PROCTO”,
for use with ENDOMAT® SELECT UP210

UP602  **HYSTEROSCOPY Software,** license,
allows selection of the procedure “HYS”,
for use with ENDOMAT® SELECT UP210

UP603  **IBS® Shaver Software,** license,
allows selection of the procedure “IBS™”,
for use with ENDOMAT® SELECT UP210

UP604  **UROLOGY Software,** license,
allows selection of the procedures “CYST”, “RES”, “URS”, “CALCUSON” and “PCN”,
for use with ENDOMAT® SELECT UP210

UP605  **ARTHROSCOPY Software,** license,
allows selection of the procedures “KNEE”, “HIP”, “SHOULDER” and “SMALL JOINTS”,
for use with ENDOMAT® SELECT UP210

UP606  **ENT/NEURO Software,** license,
allows selection of the procedure “CLEARVISION™”,
for use with ENDOMAT® SELECT UP210

UP607  **SPINE Software,** license,
allows selection of the procedures “LUMBAR” and “THORACAL”,
for use with ENDOMAT® SELECT UP210

UP610  **ADVANCED Package,** software, license,
extends functions of installed software packages,
for use with ENDOMAT® SELECT UP210

031524-10*  **Tubing Set, irrigation, flow-controlled,**
sterile, for single use, package of 10, for use with
HAMOU® ENDOMAT® 26331120 and ENDOMAT® SELECT UP210

031523-10*  **Tubing Set, irrigation, pressure-controlled,**
sterile, for single use, package of 10, for use with
HAMOU® ENDOMAT® 26331120 and ENDOMAT® SELECT UP210

030647-10*  **Tubing Set, suction, direct suction,**
sterile, for single use, package of 10,
for use with ENDOMAT® SELECT UP210

031647-10*  **Tubing Set, suction, bottle suction,**
sterile, for single use, package of 10,
for use with ENDOMAT® SELECT UP210

031529-10*  **Tubing Set, irrigation, CLEARVISION®,**
sterile, for single use, package of 10,
for use with ENDOMAT® SELECT UP210

Day sets and reusable tubing sets are also available. Please contact your KARL STORZ representative for further information.
NAV1® electromagnetic

For precise navigation in FESS and ear surgery

- Low follow-up costs thanks to reusable EM instruments in proven KARL STORZ quality*
- High precision thanks to sensors in the instrument tips
- Compact design for easy integration into the OR
- Possible to update the system with the optical measurement technology
- User-friendly interface thanks to clearly defined control elements and menu navigation
- Possible to update NAV1® SINISTRACKER™ planning software, the navigated endoscope and the navigated shaver tracker
- Planning and monitoring of risk structures with intraoperative Distance Control
- Automatic and reliable documentation of the navigated procedure
- Intraoperative re-registration enables manual correction of any inaccuracies, particularly in deeper regions

* Up to 30 applications guaranteed
Benefits of electromagnetic navigation compared to optical navigation:

- No restrictions as no clear line of sight to the instruments is required unlike optical measurement systems
- All electromagnetic instruments can therefore be rotated and utilized according to the surgeon’s preferences (particularly advantageous for endoscopically assisted bimanual operating techniques)
- Malleable electromagnetic instruments can be manually adjusted to a specific anatomical surgical field
- Less space required as no optical camera is attached to a videocart or mobile stand

40820001  NAV1® ELECTROMAGNETIC

including:

- NAV1® Module
- NAV1® ELECTROMAGNETIC Module
- NAV1® ELECTROMAGNETIC Field Generator
- Headband, for navigation, for single use
- EM Patient Tracker
- EM Probe
- 2x Mains Cord, length 300 cm
- Module Connecting Cable
- Optical Mouse
NAV1® SinusTracker™

The innovative planning software for new routes in FESS surgery

The NAV1® SINUSTRACKER™ planning software enhances the KARL STORZ NAV1® ELECTROMAGNETIC system with the automatic planning of access paths in paranasal sinus and skull base surgery. On the basis of a preoperatively set starting and destination point in the patient’s radiological data, the software allows the surgeon to determine a precise access path that is specially adapted to the individual anatomic structures of the patient. The physician then reviews and modifies the suggested access path at their discretion. Intraoperatively, the selected route is visualized on the navigation screen so that the actual position in the site is under constant control.

Benefits of the NAV1® SINUSTRACKER™

- Multiple Path Planning enables the preoperative planning and naming of up to eight access paths and alternatives
- Intraoperative visualization and control of access paths
- Less preoperative planning required thanks to automatic preplanning
- Flexible, pre- and intraoperative adaptation of the access path possible
Set waypoints by clicking into the 2D views.

40810600  **SINUSTRACKER™**, additional software module for the NAV1® family, compatible with software version 6.0.0 or higher
NAV1® optical

The optical navigation system for FESS and ear surgery without any single-use products

Benefits of NAV1® OPTICAL

- Seamless integration as the basic unit can be attached to a ceiling supply unit or equipment cart
- Very economic thanks to patented autoclavable and therefore reusable glass spheres and instruments
- User-friendly interface thanks to clearly defined control elements and menu navigation
- Wide range of conventional as well as motor-driven navigation instruments in the proven KARL STORZ quality
- Possible to upgrade the system with the NAV1® ELECTROMAGNETIC module
- Intraoperative re-registration enables manual correction of any inaccuracies, particularly in deeper regions
40810001  **NAV1® OPTICAL**
including:
- NAV1® Module
- Navigation Camera
- Stand, mobile
- Module Connecting Cable, length 750 cm
- Headband for Navigation, for single use
- Patient Tracker III
- Navigation Probe
- Mains Cord
- Optical Mouse

**Optical Navigated Instruments for FESS Surgery**

40800088  **Patient Tracker III,**
with verification adaptor, 3 incorporated glass marker spheres and fixation screw, *autoclavable,*
dimensions: 80 x 60 x 12 mm, for use with NAV1® PICO and NAV1® OPTICAL

40800110  **Navigation Probe,**
with 3 fixed glass marker spheres, *autoclavable,*
dimensions: 295 x 15 x 30 mm, for use with NAV1® PICO and NAV1® OPTICAL

40800111  **Optical Navigated Frontal Sinus Probe,**
for use with NAV1® PICO, NAV1® OPTICAL and Tool Tracker 40800120
Lösungen für die Stirnhöhlenchirurgie
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.
Shaping the Future of Endoscopy with you