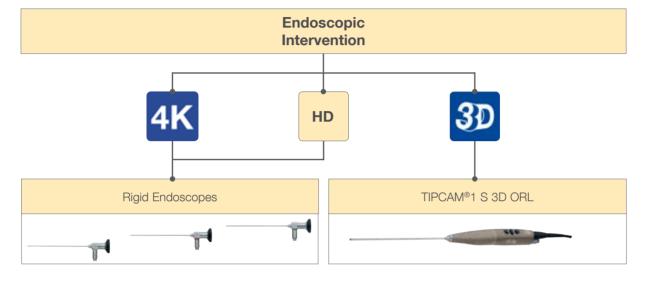
Highlights 2019

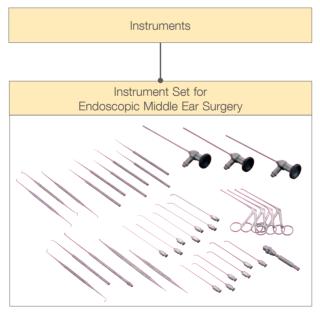
Otorhinolaryngology

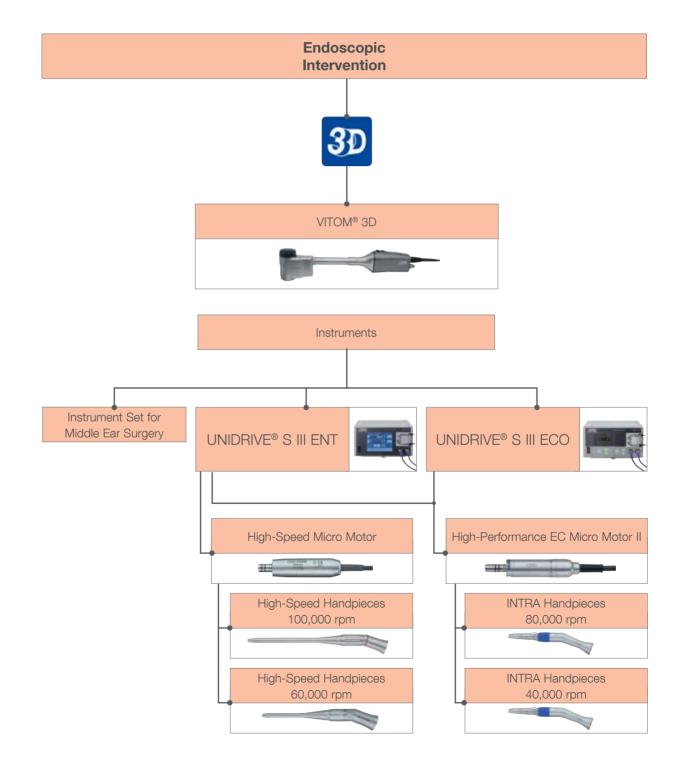


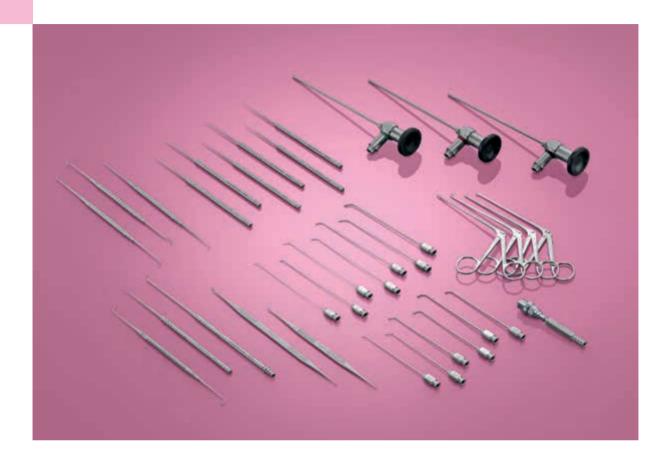
Surgical Interventions in the Middle Ear











Instrument Set for Endoscopic Middle Ear Surgery

Enhanced visualization technologies in combination with the outstanding optical properties of the endoscope as well as special instruments offer new perspectives and possibilities in middle ear surgery. The following instrument set has been specially designed in order to fulfill the requirements of endoscopic ear surgery.

- Minimally invasive approach
- Allows a complete examination of the middle ear with a better control over pathologies
- Bypasses the postauricular approach
- Enables meaningful photo and video documentation

KARL STORZ offers a comprehensive set of special instruments and endoscopes. Here are the latest developments with respect to the existing instrument set:

224004	HOUSE Double Curette, medium, spoon sizes 1 \times 1.6 mm and 2 \times 3.5 mm, length 18 cm
227230	Round Knife, diameter 3 mm, with suction, easy to handle due to rotating tube olive, length 19 cm
226213	THOMASSIN Dissector, double-ended, distal tips angled 90° to right or left, length 18 cm
New Conical	Suction Tubes:
204359 C	Suction Tube, conical, curved 3 mm, LUER-Lock, outer diameter 1 mm, length 8 cm
204361 C	Suction Tube, conical, curved 6 mm, LUER-Lock, outer diameter 1 mm, length 8 cm
204362 C	Suction Tube, conical, curved 6 mm, LUER-Lock, outer diameter 1.2 mm, length 8 cm
204365 C	Suction Tube, conical, curved 8 mm, LUER-Lock, outer diameter 1.2 mm, length 8 cm
204366 C	Suction Tube, conical, curved 8 mm, LUER-Lock, outer diameter 1.6 mm, length 8 cm
204367 C	Suction Tube, conical, curved 6 mm, LUER-Lock, outer diameter 1.6 mm, length 8 cm
Endoscopes	with Various Directions of View:
7220 AA	HOPKINS® Straight Forward Telescope 0°, enlarged view, diameter 3 mm, length 14 cm, autoclavable, fiber optic light transmission incorporated, color code: green
7220 BA	HOPKINS® Forward-Oblique Telescope 30°, enlarged view, diameter 3 mm, length 14 cm, autoclavable, fiber optic light transmission incorporated, color code: red
7220 FA	HOPKINS® Forward-Oblique Telescope 45°, enlarged view, diameter 3 mm, length 14 cm, autoclavable, fiber optic light transmission incorporated, color code: black
7220 CA	HOPKINS® Lateral Telescope 70°, enlarged view, diameter 3 mm, length 14 cm, autoclavable, fiber optic light transmission incorporated, color code: yellow



Instrument Set for Middle Ear Surgery

Surgery in the ear region is complex and varied as a result of the multitude of indications in this area. From tympanoplasty to cochlear implants through to routine middle ear procedures – a suitable instrument set is available for each indication.

- Standard instruments for access to the middle and inner ear
- UNIDRIVE® S III ENT motor system with a large range of handpieces
- Ancillary tools for interventions on the auditory ossicular chain and for the implantation of middle ear prostheses

MAYO Scissors, curved, length 15 cm 193110 FISCH Scissors, extra delicate, curved, sharp/sharp, length 10.5 cm FISCH Scissors, extra delicate, curved, sharp/sharp, length 10.5 cm FISCH Suction and Irrigation Tube, conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm FISCH Suction and Irrigation Tube, cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 1.9 mm, working length 9.5 cm Same, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm Surgical Handle, Fig. 3, length 12.5 cm PISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm PISCH Dual Purpose Scalpel Handle, soft spring-action, length 11 cm Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm PISCH Raspatory, width 10 mm, length 16 cm WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm FISCH Raspatory, curved, width 4 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2.2 mm Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm PISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm PISCH Micro Raspatory, single curved to right, length 16 cm PISCH Tenotome, extra delicate, length 16 cm PISCH Tenotome, extra delicate, length 16 cm PISCH Same, size 1.5 mm PISCH Same, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 2.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 2.5 mm	2x 220213	FISCH Retractor , 2 x 2 prongs, length 13 cm
FISCH Scissors, extra delicate, curved, sharp/sharp, length 10.5 cm FISCH Suction and Irrigation Tube, conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm FISCH Suction and Irrigation Tube, cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm Same, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm Surgical Handle, Fig. 3, length 12.5 cm FISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm Passon F Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm FISCH Raspatory, width 10 mm, length 16 cm FISCH Raspatory, width 10 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2 mm Same, outer diameter 2.2 mm Same, outer diameter 1 nm FISCH Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 1.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Same, single curved to left Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm	792003	MAYO Scissors, curved, length 15 cm
PISCH Suction and Irrigation Tube, conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm PISCH Suction and Irrigation Tube, cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm Same, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm Surgical Handle, Fig. 3, length 12.5 cm PISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm Passon F Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm PISCH Raspatory, width 10 mm, length 16 cm PREER Raspatory, curved, width 4 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 2.2 mm 204733 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm PISCH Suction Handle. with out-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 1.5 cm PISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm PISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, clameter 1 mm, length 16 cm PISCH Tenotome, extra delicate, length 16 cm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1.5 mm	535312	HALSTEAD "Mosquito" Artery Forceps, micro model, curved, length 12.5 cm
irrigation tube outer diameter 2 mm, working length 9.5 cm FISCH Suction and Irrigation Tube, cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm Same, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm Sugooo Surgical Handle, Fig. 3, length 12.5 cm FISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm 214000 F WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm FISCH Raspatory, width 10 mm, length 16 cm FISCH Raspatory, curved, width 4 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204730 Same, outer diameter 1.5 mm 204732 Same, outer diameter 2.2 mm 204332 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm FISCH Suction Handle, with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm FISCH Tenotome, extra delicate, length 16 cm Pisch Fisch Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225415 Same, size 1.5 mm 225425 Same, size 1.5 mm 225425 Same, size 1.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225215 Same, size 1.5 mm	213410	FISCH Scissors, extra delicate, curved, sharp/sharp, length 10.5 cm
irrigation tube outer diameter 2 mm, working length 9.5 cm Same, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm Surgical Handle, Fig. 3, length 12.5 cm 211804 FISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm 224003 HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm 214500 F Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm 793303 F Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm 214000 F WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm 213011 FISCH Raspatory, width 10 mm, length 16 cm 477500 FREER Raspatory, curved, width 4 mm, length 16.5 cm 204729 FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204730 Same, outer diameter 2.2 mm 204732 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm 204250 FISCH Suction Handle, with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226202 Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm 225310 Same, size 1.5 mm 225415 Same, size 1.5 mm 225425 Same, size 2.5 mm 225425 Same, size 0.5 mm, length 16 cm 225415 Same, size 1.5 mm 225215 Same, size 0.5 mm, length 16 cm	206300	
Surgical Handle, Fig. 3, length 12.5 cm 211804 FISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm 224003 HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm 214500 F Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm 793303 F Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm 214000 F WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm 18ISCH Raspatory, width 10 mm, length 16 cm 477500 FREER Raspatory, curved, width 4 mm, length 16.5 cm 18ISCH Raspatory, width 10 mm, length 16.5 cm 18ISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204730 Same, outer diameter 2.5 mm 204732 Same, outer diameter 2.2 mm 204332 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm 204250 FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225410 Same, size 1 mm 225415 Same, size 1.5 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225215 Same, size 1 mm	206600	
FISCH Dual Purpose Scalpel Handle, elevator on one side, scalpel handle no. 7 on the other side, length 16 cm HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm 793303 F Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm WULLSTEIN Forceps, serrated, soft spring-action, length 13 cm 18CH Raspatory, width 10 mm, length 16 cm FREER Raspatory, urved, width 4 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2.2 mm Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm FISCH Tenotome, extra delicate, length 16 cm FISCH Tenotome, extra delicate, length 16 cm Same, size 1 mm Same, size 1.5 mm Same, size 0.5 mm, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm	206700	Same, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm
HOUSE Double Curette, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm 214500 F Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm 793303 F Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm 214000 F WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm 13011 FISCH Raspatory, width 10 mm, length 16 cm 77500 FREER Raspatory, curved, width 4 mm, length 16.5 cm 15CH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204729 FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204730 Same, outer diameter 1.5 mm 204732 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 226410 Same, size 1.5 mm 226425 Same, size 0.5 mm, length 16 cm 226426 Same, size 0.5 mm, length 16 cm 226210 Same, size 1.5 mm 226210 Same, size 1.5 mm 226211 Same, size 1.5 mm	208000	Surgical Handle, Fig. 3, length 12.5 cm
214500 F Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm 793303 F Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm 214000 F WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm 213011 FISCH Raspatory, width 10 mm, length 16 cm 477500 FREER Raspatory, curved, width 4 mm, length 16.5 cm 204729 FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204730 Same, outer diameter 1.5 mm 204732 Same, outer diameter 2.2 mm 204733 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm 204250 FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226102 Same, single curved to left 226810 Round Knife 45°, diameter 1 mm, length 16 cm 225301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225415 Same, size 1 mm 225425 Same, size 1.5 mm 225425 Same, size 0.5 mm, length 16 cm 225210 Same, size 1.5 mm 225211 Same, size 1.5 mm 225212 Same, size 1.5 mm	211804	
Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm FISCH Raspatory, width 10 mm, length 16 cm FREER Raspatory, curved, width 4 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2 mm Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm FISCH Micro Raspatory, single curved to right, length 16 cm FISCH Tenotome, extra delicate, length 16 cm FISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1.5 mm Same, size 0.5 mm, length 16 cm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1 mm Same, size 1.5 mm	224003	HOUSE Double Curette, medium, spoon sizes 1 \times 1.8 mm and 2 \times 2.8 mm, length 15 cm
214000 F WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm 213011 FISCH Raspatory, width 10 mm, length 16 cm 477500 FREER Raspatory, curved, width 4 mm, length 16.5 cm 204729 FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm 204730 Same, outer diameter 1.5 mm 204732 Same, outer diameter 2 mm 204733 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm 204250 FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226810 Round Knife 45°, diameter 1 mm, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225415 Same, size 1 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225211 Same, size 1 mm 225212 Same, size 1 mm 225213 Same, size 1.5 mm	214500 F	Jeweler Forceps, fine, pointed, soft spring-action, length 11 cm
FISCH Raspatory, width 10 mm, length 16 cm FREER Raspatory, curved, width 4 mm, length 16.5 cm FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2 mm Same, outer diameter 2.2 mm Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm FISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 1.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1 mm	793303 F	Tissue Forceps, 1 x 2 teeth, slender, soft spring-action, length 13 cm
FREER Raspatory, curved, width 4 mm, length 16.5 cm PISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2 mm Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm PISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm PISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm PISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 1.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1 mm Same, size 1 mm Same, size 1 mm Same, size 1 mm Same, size 1.5 mm	214000 F	WULLSTEIN Forceps, serrated, soft spring-action, length 15 cm
FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm Same, outer diameter 1.5 mm Same, outer diameter 2 mm Same, outer diameter 2.2 mm Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm PISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 1.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1 mm Same, size 1 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm	213011	FISCH Raspatory, width 10 mm, length 16 cm
Same, outer diameter 1.5 mm 204732 Same, outer diameter 2 mm 204733 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm 204250 FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226102 Same, single curved to left 226810 Round Knife 45°, diameter 1 mm, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225410 Same, size 1 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225210 Same, size 1 mm 225211 Same, size 1.5 mm	477500	FREER Raspatory, curved, width 4 mm, length 16.5 cm
Same, outer diameter 2 mm 204732 Same, outer diameter 2.2 mm 204352 Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm 204354 Same, outer diameter 1 mm 204250 FISCH Suction Handle, with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226102 Same, single curved to left 226810 Round Knife 45°, diameter 1 mm, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225410 Same, size 1 mm 225415 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225210 Same, size 1.5 mm	204729	FISCH Suction Tube, angular, with grip plate, outer diameter 1.2 mm, working length 9 cm
Same, outer diameter 2.2 mm Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm PISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm PISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm PISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 2.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1.5 mm	204730	Same, outer diameter 1.5 mm
Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm Same, outer diameter 1 mm PISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm PISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm PISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 1.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm Same, size 1 mm Same, size 1.5 mm Same, size 1.5 mm Same, size 1 mm Same, size 1 mm Same, size 1 mm Same, size 1 mm	204732	Same, outer diameter 2 mm
Same, outer diameter 1 mm PISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm PISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm PISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 1.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 1.5 mm	204733	Same, outer diameter 2.2 mm
FISCH Suction Handle. with cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm FISCH Micro Raspatory, single curved to right, length 16 cm Same, single curved to left Round Knife 45°, diameter 1 mm, length 16 cm FISCH Tenotome, extra delicate, length 16 cm Pick, 45°, size 0.5 mm, length 16 cm Same, size 1 mm Same, size 1.5 mm Pick, 90°, size 0.5 mm, length 16 cm Same, size 2.5 mm Same, size 1 mm	204352	Suction Tube, angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm
length 5.5 cm 226101 FISCH Micro Raspatory, single curved to right, length 16 cm 226102 Same, single curved to left 226810 Round Knife 45°, diameter 1 mm, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225410 Same, size 1 mm 225415 Same, size 2.5 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225210 Same, size 1 mm	204354	Same, outer diameter 1 mm
226102 Same, single curved to left 226810 Round Knife 45°, diameter 1 mm, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225410 Same, size 1 mm 225415 Same, size 1.5 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225215 Same, size 1.5 mm	204250	
226810 Round Knife 45°, diameter 1 mm, length 16 cm 226301 FISCH Tenotome, extra delicate, length 16 cm 225405 Pick, 45°, size 0.5 mm, length 16 cm 225410 Same, size 1 mm 225415 Same, size 1.5 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225215 Same, size 1.5 mm	226101	FISCH Micro Raspatory, single curved to right, length 16 cm
226301 FISCH Tenotome , extra delicate, length 16 cm 225405 Pick , 45°, size 0.5 mm, length 16 cm 225410 Same , size 1 mm 225415 Same , size 1.5 mm 225425 Same , size 2.5 mm 225205 Pick , 90°, size 0.5 mm, length 16 cm 225210 Same , size 1 mm 225215 Same , size 1.5 mm	226102	Same, single curved to left
225405	226810	Round Knife 45°, diameter 1 mm, length 16 cm
225410 Same, size 1 mm 225415 Same, size 1.5 mm 225425 Same, size 2.5 mm 225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225215 Same, size 1.5 mm	226301	FISCH Tenotome , extra delicate, length 16 cm
225415	225405	Pick, 45°, size 0.5 mm, length 16 cm
225425	225410	Same, size 1 mm
225205 Pick, 90°, size 0.5 mm, length 16 cm 225210 Same, size 1 mm 225215 Same, size 1.5 mm	225415	Same, size 1.5 mm
225210 Same, size 1 mm 225215 Same, size 1.5 mm	225425	Same, size 2.5 mm
225215 Same, size 1.5 mm	225205	Pick, 90°, size 0.5 mm, length 16 cm
	225210	Same, size 1 mm
225220 Same, size 2 mm	225215	Same, size 1.5 mm
	225220	Same, size 2 mm

226600	FISCH Perforator, diameter 0.3 mm, length 16 cm
226604	Same, diameter 0.4 mm
226605	Same, diameter 0.5 mm
226606	Same, diameter 0.6 mm
224812	FISCH Footplate Hook, tip angled upwards 90°, 0.2 mm, length 16 cm
224813	Same, tip angled downwards 90°
226514	FISCH Caliper, angular, diameter 0.4 mm, length 16 cm
226516	Same, diameter 0.6 mm
226500	FISCH Measuring Rod, 16 cm
221409	WULLSTEIN Ear Forceps, dismantling, extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm
221406	Same, oval cupped jaws, 0.6 mm
162020	HARTMANN Ear Forceps, round cupped jaws, diameter 2 mm, working length 8 cm
221100	HARTMANN Ear Forceps, dismantling, extra delicate, serrated, 1 x 4.5 mm, working length 8 cm
221201	FISCH Ear Forceps, dismantling, extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
221110	FISCH-HARTMANN Ear Forceps, dismantling, extra delicate, smooth, 1 \times 4.5 mm, working length 8 cm
222606	FISCH-BELLUCCI Micro Scissors , dismantling, extra delicate scissor blades, with thin sheath, cutting length 3 mm, working length 8 cm
222603	FISCH-BELLUCCI Micro Scissors , dismantling, extra delicate scissor blades, cutting length 3 mm, working length 8 cm
222501	FISCH-BELLUCCI Scissors , dismantling, extra fine, cutting length 7 mm, working length 8 cm
222710	FISCH Scissors, dismantling, for crurotomy, curved to right, working length 7.5 cm
222720	Same, curved to left
222801	FISCH-DIETER Malleus Nipper, dismantling, extra delicate, upbiting, width 0.8 mm, working length 8 cm
239728	Metal Tray, for sterilization and storage of ear instruments, perforated, base with holder for 20 straight ear micro instruments with octagonal handle, lid with silicone bridges, external dimensions (w x d x h): $275 \times 175 \times 36 \text{ mm}$

Recommended Container Accessories:

39762 D2 **Color Tab,** blue

39502 Z	Wire Tray for Cleaning, Sterilization and Storage of instruments, stackable, including hole plate walls and foldaway handles, external dimensions (w x d x h): $480 \times 250 \times 66 \text{ mm}$
39751 A2	Sterilization Container, with MicroStop® microbiological barrier, for sterilization and sterile storage, external dimensions (w x d x h) 600 x 300 x 140 mm, internal dimensions: (w x d x h) 548 x 267 x 113 mm
39763 A2	Coding Label



UNIDRIVE® S III ENT

The high-end solution for comfort in the OR

One unit - six functions

- Shaver
- Sinus Burr
- High-speed Micro Motor
- High-performance EC Micro Motor II
- Micro Saw
- Dermatome

© KARL STORZ 96311028 ENT 1.0 03/2019/YHL-E

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

STERILE

Optional Accessories

280053 **Universal Spray,** 6x 500 ml bottles, - HAZARDOUS GOODS – UN 1950

including: **Spray Nozzle**

280053 C **Spray Nozzle,** for the reprocessing of INTRA burr handpieces,

for use with Universal Spray 280053 B

031131-10* **Tubing Set,** sterile, for single use, package of 10, for use with

UNIDRIVE® ENT/ECO/NEURO, UNIDRIVE® S III ENT/ECO/NEURO







UNIDRIVE® S III ECO

The functional and cost-effective motor system

One unit - five functions

- Shaver
- Sinus Burr (12K)
- High-performance EC Micro Motor II
- Micro Saw
- Dermatome

UNIDRIVE® S III ECO, motor control unit with two motor outputs and integrated irrigation pump,

power supply 100-240 VAC, 50/60 Hz

including:

Mains Cord

Two-Pedal Footswitch

Single-use Tubing Set*, sterile, package of 3

STERILE

The maintenance of additional motor-driven motor components (high-performance motors, burr handpieces, shaver handpieces) must be performed with Universal Spray 280053 B + C (not included in delivery). Please order separately.

Optional Accessories

280053 Universal Spray, 6x 500 ml bottles, - HAZARDOUS GOODS - UN 1950

> includina: **Spray Nozzle**

280053 C Spray Nozzle, for the reprocessing of INTRA burr handpieces,

for use with Universal Spray 280053 B

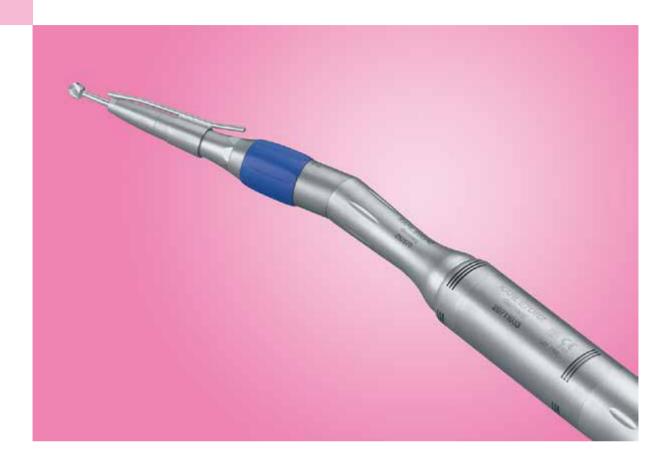
031131-10* Tubing Set, sterile, for single use, package of 10,

for use with UNIDRIVE® ENT/ECO/NEURO, UNIDRIVE® S III ENT/ECO/NEURO









High-Performance EC Micro Motor II with INTRA Drill Handpieces

- Self-cooling and brushless high-performance EC Micro Motor II
- Autoclavable and can be reprocessed in a cleaning machine
- INTRA coupling allows a wide range of applications
- Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handles
- Detachable irrigation tubes
- Lightweight construction
- Low vibration

High-Performance EC Micro Motor II

20711033 High-Performance EC Micro Motor II, for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/

ECO and Connecting Cable 20711073 or for use with UNIDRIVE® S III ENT/ECO/NEURO and

Connecting Cable 20711173

20711173 Connecting Cable, to connect High-Performance EC Micro Motor II 20711033

to UNIDRIVE® S III ENT/ECO/NEURO

INTRA Drill Handpieces, 80,000 rpm, angled

252573	INTRA Drill Handpiece, angled, length 12.5 cm, transmission 1:2 (80,000 rpm)
252574	INTRA Drill Handpiece, angled, length 15 cm, transmission 1:2 (80,000 rpm)
252575	INTRA Drill Handpiece, angled, length 18 cm, transmission 1:2 (80,000 rpm)

INTRA Drill Handpieces, 40,000 rpm, straight

252590	INTRA Drill Handpiece, straight, length 11 cm, transmission 1:1 (40,000 rpm)
252591	INTRA Drill Handpiece, straight, length 13 cm, transmission 1:1 (40,000 rpm)
252592	INTRA Drill Handpiece, straight, length 17 cm, transmission 1:1 (40,000 rpm)

INTRA Drill Handpieces, 40,000 rpm, angled

252571	INTRA Drill Handpiece, angled, length 15 cm, transmission 1:1 (40,000 rpm)
252572	INTRA Drill Handpiece, angled, length 18 cm, transmission 1:1 (40,000 rpm)

Optional Accessories

39130 AR Cleaning Adaptor, LUER-Lock connector, for use with INTRA and High-Speed Handpieces 2525xx, 2526xx





High-Speed Micro Motor with High-Speed Drill Handpieces High-speed motor system for otorhinolaryngology

Special Features:

- Continuously variable high-speed handpieces with up to 100,000 rpm
- Easy setup and fast installation for a smooth OR workflow
- Malleable handpieces available
- Burr insert for single use

40 701601-1	10 701601-1 UNIDRIVE® S III ENT SCB, motor control unit with color display, touch scree two motor outputs, integrated irrigation pump and integrated SCB module, power supply 100-240 VAC, 50/60 Hz	
20 712033	eq:high-Speed Micro Motor, max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO	
252680	High-Speed Handpiece, short, angled, 100,000 rpm	
252681	High-Speed Handpiece, medium, angled, 100,000 rpm	
252682	High-Speed Handpiece, long, angled, 100,000 rpm	
252660	High-Speed Handpiece, extra short, angled, 60,000 rpm	
252661	High-Speed Handpiece, short, angled, 60,000 rpm	
252662	High-Speed Handpiece, medium, angled, 60,000 rpm	
252663	High-Speed Handpiece, long, angled, 60,000 rpm	
252690	High-Speed Handpiece, extra short, straight, 60,000 rpm	
252691	High-Speed Handpiece, short, straight, 60,000 rpm	
252692	High-Speed Handpiece, medium, straight, 60,000 rpm	
252671	High-Speed Handpiece, extra long, malleable, slim, angled, 60,000 rpm	
252672	High-Speed Handpiece, super long, malleable, slim, angled, 60,000 rpm	

Optional Accessories

39130 AR **Cleaning Adaptor,** LUER-Lock connector, for use with INTRA and High-Speed Handpieces 2525xx, 2526xx



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 STM 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 TM 4U-LINK
TM 440	58" 4K Monitor, screen resolution 3840 \times 2160, image format 16:9, power supply 100-240 VAC, 50/60 Hz, wall mount with VESA 400 \times 400 and VESA 400 \times 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 3840×2160 , 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

 $^{^{\}star}$ Also available in the following languages: DE, ES, FR, IT, PT, RU

^{**} TM 342 not available in USA, Japan & China



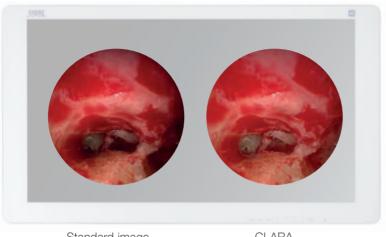
IMAGE1 S[™] – As Individual as Your Requirements

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

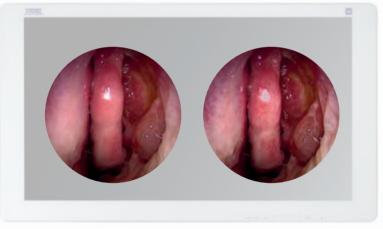
^{*} not for sale in the U.S.

Comparison of S-Technologies:



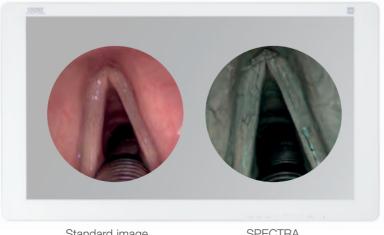
Standard image

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, 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, 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, H₂O₂ (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 S™ X-LINK
- TH 110 **IMAGE1 STM HX One-Chip FULL HD Camera Head,** 50/60 Hz, fixed focus, progressive scan, soakable, EU sterilization, H_2O_2 (hydrogen peroxide), focal length f = 16 mm, 2 freely programmable camera head buttons, for use with IMAGE1 STM
- 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, 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 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.



VITOM® 3D – 3D Visualization for Microsurgery and Open Surgery

The VITOM® 3D system provides many surgical disciplines with a revolutionary solution for the visualization of microsurgical and open surgical interventions.

Application possibilities are similar to that of the operating microscope. The most important functions are controlled via the IMAGE1 PILOT, which is mounted on the OR table in the direct vicinity of the surgeon.

- Smaller, lighter and more compact than an operating microscope
- Lower acquisition costs and creates synergistic effects with endoscopy by using the same video tower thus combining the benefits of endoscopy and microscopy
- Ergonomic work the user is not confined to the eyepiece
- Improved workflow the OR team can view the procedure in the same image quality as the surgeon





VITOM® 3D – Potential Applications

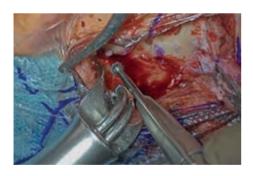
The VITOM® 3D was specifically developed for the classic applications of surgical microscopes (neurosurgery, ENT, spine surgery, hand surgery, and plastic surgery). Furthermore, it can be used in classic open surgery.



NEUROSURGERY, e.g. tumor biopsy, tumor resection, nerve decompression, intracranial bleeding, vascular surgery



ORAL AND MAXILLOFACIAL SURGERY, e.g. dysgnathia surgery, flap plasty, orbital surgery



ENT, e.g. tumor resection, tympanoplasty, laryngeal surgery, adenotomy, blepharoplasty, septoplasty, open rhinoplasty, thyroplasty, thyroidectomy, eardrum paracentesis, tympanostomy tubes, cochlear implants



CARDIAC SURGERY, e.g. mitral valve surgery, pediatric cardiac surgery

Potential applications range from the visualization of the surgical field to documentation and training. The VITOM® 3D is supported by the IMAGE1 S™ camera platform and therefore offers all functions and advantages such as the S-Technologies CLARA, CHROMA, and SPECTRA* in 2D and 3D.



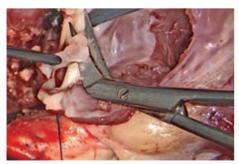
GYNECOLOGY, e.g. colposcopy, conization



HAND SURGERY and PLASTIC SURGERY, e.g. reconstructive surgery, median nerve neurolysis, Dupuytren's contracture, ulnar shortening osteotomy, ulnar head prosthesis, arthroplasty, ganglion resection, correction of trigger finger and mallet finger, four-corner arthrodesis



SPINE SURGERY, e.g. herniated disks, spinal stenoses, spondylodeses, vertebral fracture



PEDIATRICS, e.g. hypospadias, anorectal malformation, atrial septal defect

*not for sale in the U.S.

VITOM® 3D - 3D visualization for microsurgery and open surgery



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

IMAGE1 PILOT is required for the use of VITOM® 3D. VITOM® 3D and IMAGE1 PILOT are always used with a holding system. Please note that special clamping jaws are required to mount VITOM® 3D to the holding system.

Specifications:

Image sensor	2-chip, 4K
Zoom	infinitely variable
Working distance (WD)	20-50 cm
Magnification (WD 30 cm with 32" 3D monitor)	approx. 8-30 x
Cleaning	wipe disinfection

VERSACRANE™ holding system for the convenient positioning of VITOM®



28272 HSP **VERSACRANE™ Holding Arm,** high, mobile, spring-supported, with quick release coupling

KSLOCK, for use with KARL STORZ clamping jaws.

including:

Mobile Stand, with height adjustment

WARNING: The VERSACRANE™ holding arm cannot be used with rigid endoscopes!

Accessories



28272 VTK VITOM® 3D Clamping Jaw, with ball joint and quick release coupling KSLOCK (male), for use with VITOM® 3D and KARL STORZ holding systems with quick release coupling KSLOCK



28272 VTP VITOM® 3D Clamping Jaw, for POINT SETTER, with dovetail connector, for use with VITOM® 3D and POINT SETTER holding system



495 VIT

Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 550 cm

Note: The 550 cm long Light Cable 495 VIT is a necessary requirement for the VERSACRANE™.



TH 001*

Cover, for VITOM® 3D, sterile, for single use, package of 10







TH 002 VITOM® 3D Illuminator, additional lighting for VITOM® 3D, with 1 adjustable lens, autoclavable, for use with VITOM® 3D and light cable



TH 003 **Protective Cover,** for VITOM® 3D

Wire tray for reprocessing the VITOM® 3D illuminator



Set 2B 39502 ZH Wire Tray, stackable, with hole place walls 39502 LH Lid 39100 SH Silicone Grid Insert LARGE DIAMOND GRID 39100 PS Fixation Pin, package of 12 39360 AS Silicone Tie-downs, package of 12

IMAGE1 PILOT with holding system for fixation to the operating table



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



28172 HR Rotation Socket, to clamp to the operating table, with one mounted Butterfly Nut 28172 HRS, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand



28272 HB **Articulated Stand,** reinforced version

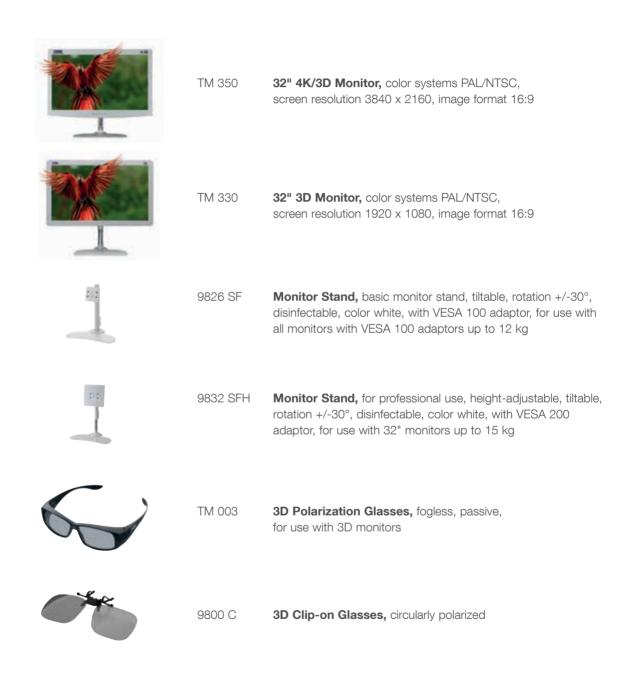


041150-20* **Cover,** elasticated, 42 x 164 cm, sterile, for single use, package of 20, for use with KARL STORZ holding systems and IMAGE1 PILOT





Monitor



Imaging and OR Integration



Storage and administration of image and video data

OR1 68 1.0 01/2019/A-E



Flexible support for image sources







Centralized communication interface



KARL STORZ OR1™

Future-oriented integration meets innovative data management



KARL STORZ SE & Co. KG, Dr.-Karl-Storz-Straße 34, 78532 Tuttlingen/Germany 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

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.



KARL STORZ SE & Co. KG

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www.karlstorz.com