HINNI Distending Operating Laryngoscope

STORZ
KARL STORZ – ENDOSKOPE
Could you reach more pathologies associated with early laryngeal carcinoma? Would you achieve more successful outcomes? Would patient satisfaction increase?

Approximately 500,000 new cases of head and neck squamous cell carcinoma (HNSCC) are diagnosed each year making HNSCC the 6th most common cancer worldwide.¹ The rate of HNSCC has been increasing recently secondary to an epidemic of human papillomavirus (HPV)-related oropharyngeal squamous cell cancer (OPSCC). Transoral surgery for primary head and neck neoplasia can reduce patient morbidity and cost. Furthermore, using a laser as the primary cutting modality enables most small and large tumors to be completely removed endoscopically.

**Current limitations**

Until now, obtaining proper exposure and working space has posed a challenge when performing transoral surgery for tumor removal. Many tumors cannot be exposed adequately with wide body transoral retractors and can only be visualized using laryngoscopes, making them unsuitable for treatment using Transoral Robotic Surgery.

Laryngoscopes with fluted elevated blade tips, such as the Lindholm, can provide superior exposure, particularly in the base of the tongue and supraglottic regions. Nevertheless, solid laryngoscopes with a fixed working channel may be too small for performing complex tumor resection. Furthermore, distending laryngoscopes with straight flat blades may limit exposure and utility.

**Achieving greater exposure & more working area**

The new HINNI Distending Operating Laryngoscope provides optimal exposure of critical areas of the base of the tongue and supraglottic region. Depending on patient anatomy, the design allows 50 to 100% of the base of the tongue to be visualized during procedures. Placement of the superior blade into the vallecula allows complete visualization of the entire endolarynx. Compared with other available tools, exposure of the hypopharynx is also superior in many cases and use of lateral wings prevents the tongue and soft tissue from obstructing the lumen.

The exceptional exposure offered by the HINNI laryngoscope enables tumor resection to be performed without repositioning either the laryngoscope or bed, allowing shorter surgery times. The device is an ideal solution for Transoral Surgery using both micromanipulator and fiber-driven laser applications, as well as electrocautery.

The distinctive design characteristics and advanced functionality of the HINNI Distending Operating Laryngoscope make it an optimal solution for a range of applications while enhancing the comfort and satisfaction for physicians and achieving a superior patient experience.

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KARL STORZ Endoskope licensed this technology from Mayo Clinic, where Dr. Hinni invented it. Dr. Hinni and Mayo Clinic receive royalties from it. The revenue Mayo receives is used to support its not-for-profit mission in patient care, education and research.

HINNI Distending Operating Laryngoscope

- More visible tumor boundaries thanks to better exposure and access to working areas help perform resection
- Can support visualization of the entire endolarynx
- Lateral wings aid in preventing the tongue and soft tissue from obstructing the lumen

How much exposure would most benefit you, and your patient?
8668A  HINNI Distending Operating Laryngoscope, with right and left side wings, length 15 cm, for use with Smoke Evacuation Tube 8668M

8668M  Suction Tube to remove vapor, curved, length 11 cm, for use with HINNI Distending Operating Laryngoscope 8668A

8587GF  Fiber Optic Light Carrier

497AC  Clip, for proximal illumination
List of accompanying instruments:

8662D  **LARYNGOFORCE® II Grasping Forceps**, delicate, serrated, special matt finish, with cleaning connector, working length 22 cm

8662EL **LARYNGOFORCE® II Grasping Forceps**, with oval alligator jaws, small, special matt finish, with suction channel to remove LASER vapors, with cleaning connector, working length 22 cm

8662FL **LARYNGOFORCE® II Grasping Forceps**, with oval alligator jaws, medium, special matt finish, with suction channel to remove LASER vapors, with cleaning connector, working length 22 cm

8662GL **LARYNGOFORCE® II Grasping Forceps**, with oval, fenestrated alligator jaws, large, special matt finish, with suction channel to remove LASER vapors, with cleaning connector, working length 22 cm

8662HL **LARYNGOFORCE® II Grasping Forceps**, with triangular, fenestrated alligator jaws, extra large, special matt finish, with suction tube for LASER vapors, with cleaning connector, working length 22 cm

8593GM **Miniature Grasping Forceps**, extra delicate, serrated, with triangular jaws, curved upwards to right, with cleaning connector, working length 23 cm

8593HM **Miniature Grasping Forceps**, extra delicate, serrated, with triangular jaws, curved upwards to left, with cleaning connector, working length 23 cm
8663AH  **Grasping Forceps**, straight, serrated, sheath insulated, with cleaning connector, working length 23 cm

8663BH  **Grasping Forceps**, curved to right, serrated, sheath insulated, with cleaning connector, working length 23 cm

8663CH  **Grasping Forceps**, curved to left, serrated, sheath insulated, with cleaning connector, working length 23 cm

8591BL  **Spoon Forceps**, curved upwards, diameter 2 mm, with cleaning connector, working length 23 cm, with suction channel to remove LASER vapors

8665L  **LARYNGOFORCE® II Clip Forceps**, jaws curved to left, with cleaning connector, working length 22 cm, for use with Clip 8665T

8665R  **LARYNGOFORCE® II Clip Forceps**, jaws curved to right, working length 22 cm, with cleaning connector, for use with Clip 8665T
8615A Bipolar Forceps, jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002E or 847002A, 847002M, 847002V, 847002U

8615AS Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002E or 847002A, 847002M, 847002V, 847002U

847002V Bipolar High Frequency Cord, for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116), Valleylab coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615A, 8615AS, 28164BGK, length 450 cm

8654B LINDHOLM Forceps, for atraumatic retraction of true vocal cords and false vocal cords, distal end with blunt curved blades, self-retaining, with ratchet and cleaning connector, working length 24 cm
8606D  Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606FM, outer diameter 2 mm, working length 23 cm

8606E  Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606FM, outer diameter 2.5 mm, working length 23 cm

8606K  Suction Tube, with ergonomic handle, with distal elevator 18 x 5 mm, for dissecting and retracting tissue, special matt finish, with Cleaning Stylet 8606FM, outer diameter 3 mm, working length 23 cm

8596P  Protector, to protect tissue against unintentional LASER irradiation, curved upwards, round, diameter 5 mm, special matt finish, with suction channel to remove LASER vapors, working length 23 cm

8596R  Protector, to protect tissue against unintentional LASER irradiation, curved upwards, oval, diameter 7 mm, special matt finish, with suction channel to remove LASER vapors, working length 23 cm
8604  KLEINSASSER Suction Tube, outer diameter 3 mm, working length 23 cm

8604E  KLEINSASSER Suction Tube, outer diameter 4 mm, working length 23 cm

8712AA  HOPKINS® Straight Forward Telescope 0°, enlarged view, diameter 5 mm, length 24 cm

8712BA  HOPKINS® Forward-Oblique Telescope 30°, enlarged view, diameter 5 mm, length 24 cm

8712CA  HOPKINS® Lateral Telescope 70°, enlarged view, diameter 5 mm, length 24 cm
**11101HDK**

**HD Video Rhino-Laryngoscope KIT,**
direction of view 0°, angle of view 100°,
working length 30 cm, outer diameter 3.7 mm,
deflection up/down 140°/140°,

The following accessories are included in delivery:

- **11101HD**  **HD Video Rhino-Laryngoscope**, 3.7 mm
- **13242XL**  **Leakage Tester**
- **11025E**  **Pressure Compensation Cap**
- **27677SL**  **Case**, for use with IMAGE1 S X-LINK and TELE PACK+

**8575K**

**Laryngoscope Holder and Chest Support,**
GÖTTINGEN model, with adjustment wheel
including:

- **Support Rod**, movable, with metal ring,
diameter 9 cm, length 34 cm

**8575L**

**Support Table**, GÖTTINGEN model, for Laryngoscope Holders 8575K, 8575KC, 8574KT, 8574KW, autoclavable
including:

- **Swivel Arm**, with movable plate
- **Holding Rod**, for height adjustment
- **Attachment Blocks**, can be mounted on operation table equipped with standard sliding rail 25 x 10 mm
TH120  IMAGE1 S™ 4U One-Chip 4K UHD Camera Head,
S-Technologies available, progressive scan, soakable, gas- and plasma-
sterilizable, focal length $f = 18 \text{ mm}$, 2 freely programmable camera head
buttons, for use with IMAGE1 S™ 4U-LINK

TH104  IMAGE1 S™ H3-ZA Three-Chip FULL HD Camera Head,
autoclavable, progressive scan, soakable, gas- and plasma-
sterilizable, with integrated Parfocal Zoom Lens, focal length
$f = 15-31 \text{ mm (2x)}$, 2 freely programmable camera head buttons,
for use with IMAGE1 S™ and IMAGE 1 HUB™ HD/IMAGE1 HD

TH106  IMAGE1 S H3-M COVIEW® Three-Chip FULL HD Camera Head,
S-Technologies available, max. resolution 1920 x 1080 pixels,
progressive scan, with C-MOUNT thread for coupling to
microscopes, 2 freely programmable camera head buttons,
with detachable camera head cable, length 900 cm,
for use with IMAGE1 S and IMAGE 1 HUB™ HD
TC201DE  **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 KARLSTORZ-SCB and digital Image Processing Module, power supply 100-240 VAC, 50/60 Hz,

including:
Mains Cord, length 300 cm
DVI-D Connecting Cable, length 300 cm
DisplayPort Cable, 300 cm
SDI Cable, 300 cm
SCB Connecting Cable, length 100 cm
USB Flash Drive, 32 GB
USB Silicone Keyboard, with touchpad, US

TC304  **IMAGE1 S 4U-LINK**, link module, for use with IMAGE1 S 4U camera heads, power supply 100-120 VAC/200-240 VAC, 50/60 Hz

including:
Mains Cord, length 300 cm
Link Cable, length 20 cm
for use with IMAGE1 S CONNECT or IMAGE1 S CONNECT II
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® TC200EN including:
- **Mains Cord**, length 300 cm
- **Link Cable**, length 20 cm

TC301  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® TC200EN including:
- **Mains Cord**, length 300 cm
- **Link Cable**, length 20 cm
20161401-1  **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

TM220  **27" FULL HD Monitor,** screen resolution 1920 x 1080, image format 16:9, video inputs: 2x DVI, 3G-SDI, VGA, S-Video, Composite, video outputs: DVI, 3G-SDI, Composite, power supply 100-240 VAC, 50/60 Hz, 5 V DC output (1 A), wall mount with VESA 100 adaptor including:
- External 24 VDC Power Supply
- Mains Cover
- Cable Cover
- 4x Mounting Screws M4

495NA  **Fiber Optic Light Cable,** with straight connector, diameter 3.5 mm, length 230 cm
Data Management and Documentation
KARL STORZ AIDA® – Exceptional documentation

The name AIDA® stands for the comprehensive implementation of all documentation requirements arising in surgical procedures: A tailored solution that flexibly adapts to the needs of various specialties and thereby allows for the greatest degree of customization. This customization is achieved in accordance with existing clinical standards to guarantee a reliable and safe solution. The system be placed on an equipment cart as well as on the OR ceiling supply unit.

AIDA® seamlessly integrates into existing infrastructures and exchanges data with other systems using common standard interfaces.

WD300-XX*  AIDA® Documentation System,
for recording still images and videos,
dual channel, 4K, FULL HD, 2D/3D,
power supply 100-240 VAC, 50/60 Hz

including:
USB Silicone Keyboard, with touchpad
Recovery Software on USB Flash Drive
Software Package
ACC Connecting Cable
DVI Connecting Cable, length 200 cm
HDMI-DVI Cable, length 200 cm
DP 1.2 4K 60 Hz Cable, 180 cm
Mains Cord, length 300 cm

*XX Please indicate the relevant country code (DE, EN, ES, FR, IT, PT, RU) when placing your order.
WD 350-XX* AIDA® Documentation System, for recording still images and videos, dual channel, 4K, 2D/3D, power supply 100–240 VAC, 50/60 Hz

including:
- Touch Screen
- USB Silicone Keyboard, with touchpad
- Recovery Software on USB Flash Drive
- Software Package
- ACC Connecting Cable
- DVI-Verbindungskabel, Länge 200 cm
- HDMI-DVI Cable, length 200 cm
- DP 1.2 4K 60 Hz Cable, 180 cm
- Mains Cord, length 300 cm

WD 310-XX* AIDA® Documentation System, for recording still images and videos, single channel, FULL HD, 2D, power supply 100-240 VAC, 50/60 Hz

including:
- USB Silicone Keyboard, with touchpad
- Recovery Software on USB Flash Drive
- Software Package
- ACC Connecting Cable
- HDMI-DVI Cable, length 200 cm
- DP 1.2 4K 60 Hz Cable, 180 cm
- Mains Cord, length 300 cm

WD 360-XX* AIDA® Documentation System, for recording still images and videos, single channel, FULL HD, 2D, power supply 100-240 VAC, 50/60 Hz

including:
- Touch Screen
- USB Silicone Keyboard, with touchpad
- Recovery Software on USB Flash Drive
- Software Package
- ACC Connecting Cable
- HDMI-DVI Cable, length 200 cm
- DDP 1.2 4K 60 Hz Cable, 180 cm
- Mains Cord, length 300 cm

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| Notes |
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.
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