ENDOWORLD®
ENT 147 1.0 06/2020-E

Flexible ENT Diagnosis and Stroboscopy with the HD Video Rhino-Laryngoscope



KARL STORZ—ENDOSKOPE

The HD Video Rhino-Laryngoscope for Flexible Diagnosis and Stroboscopy in ENT

The new HD video rhino-laryngoscope from KARL STORZ allows visualization in HD image quality resulting in superior color reproduction making even small vessels visible on the vocal cords. The ergonomic design; light weight, control button positioning and option for thumb or index finger deflection lever activation allows for user-friendly handling during examinations.



The HD video rhino-laryngoscope offers:

- HD image quality
- Flexibility due to the connectivity to the IMAGE1 S™ camera system or TELE PACK+
- Enhanced IMAGE1 S™ visualization technologies including CLARA AND CHROMA (in conjunction with the IMAGE1 S™ camera system)
- Stroboscopy in HD image quality (in conjunction with TELE PACK+)
- Diameter of 3.7 mm
- Deflection 140°/140°

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Stroboscopy in HD Image Quality

Valued for its excellent ability to examine the structure and the function of glottis during phonation, stroboscopy adds more to the diagnosis than flexible laryngoscopy alone. In fact, it provides information which is not available with any other diagnostic method.

Patients expected to benefit from stroboscopic examination are those with small lesions of the vocal fold edge, the exact type of which could not be determined by indirect laryngoscopy, dysphonic (hoarse) patients that could not be diagnosed by an indirect laryngoscopy, and professional voice users.[1]



Additionally, stroboscopy has been shown to be critical in the diagnosis of voice disorders, altering the treatment decisions in 14% to 33% of cases typically seen in otolaryngology practices.[2]

During the examination, the voice frequency, musical notation, volume and speed level are displayed in the live image and recording.

Enhanced Visualization Technologies for Flexible Endoscopy

In conjunction with the IMAGE1 S™ camera system, the HD video rhino-laryngoscope offers the possibility to use enhanced visualization technologies: The IMAGE1 S™ visualization modes include CLARA and CHROMA. CLARA identifies and brightens up dark areas in an otherwise bright image. It does this dynamically and in real time without overexposing the bright part of the image. CHROMA enhances the visibility of vascularity by increasing red color contrast.



The IMAGE1 S™ system can be expanded to include rigid endoscopy in 4K image quality or 3D technology, if required.

1. Printza A, Triaridis S, Themelis C, Constantinidis J. Stroboscopy for benign laryngeal pathology in evidence based health care. Hippokratia. 2012;16(4):324-328

2. Paul BC, Chen S, Sridharan S, Fang Y, Amin MR, Branski RC. Diagnostic accuracy of history, laryngoscopy, and stroboscopy. The Laryngoscope, 123: 215-219.

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Compatibility Overview

HD Video Rhino-Laryngoscope



11101HD

IMAGE1 S™ Camera System



TC201US-KT / TC301US

TELE PACK+



TP101

KARL STORZ Monitors



Example: TM220

Stroboscopy Kit



40160040

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HD Video Rhino-Laryngoscope



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**

Accessory Compatibility IMAGE1 S™ Camera System



TC301US **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 including:

Mains Cord, length 300 cm
Link Cable, length 20 cm



TC201US-KT * **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 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, length 300 cm
SDI Cable, length 300 cm
SCB Connecting Cable, length 100 cm
USB Flash Drive, 32 GB
USB Silicone Keyboard, with touchpad, US



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 Cord
Cable Cover
4x Mounting Screws M4

* Available in the following languages: DE, ES, FR, IT, PT, RU

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Accessory Compatibility TELE PACK+



TP101

TELE PACK+, endoscopic video unit with 2 camera inputs (X-Line and C-Line) for use with flexible videoendoscopes and one-chip camera heads (up to FULL HD), incl. LED light source, digital Image Processing Module with USB and network storage options as well as 18.5" FULL HD touch screen monitor, power supply 100-240 VAC, 50/60 Hz including:

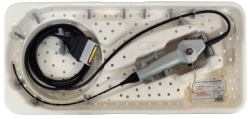
Mains Cord, length 300 cm



40160040

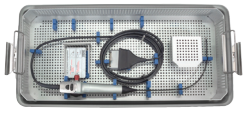
Stroboscopy Kit, for use with KARL STORZ TELE PACK+ TP101 and TELE PACK X LED TP100 including:
Footpedal
Microphone Set

Sterilization Container



39406AS

Plastic Container for Flexible Endoscopes, especially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, external dimensions (w x d x h): 550 x 260 x 90 mm, for use with one flexible endoscope



KSZ-39406AS

Sealed Container System for Flexible Videoendoscopes,
container validated for sterrad, vpro Includes:
(1) Full-size perforated bottom container 4" and Lid (23.5 x 11 x 4") (1) full-size basket, 3" (21.3 x 9.7 x 2")

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Notes

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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

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