FEES – Swallowing Diagnostics
Solutions from KARL STORZ

Scan me!
and access an interoperative video of the product configuration. This QR Code is for product configuration 2: TELE PACK+ and the HD video rhino-laryngoscope
https://go.karlstorz.com/96311052-en-2
CMOS Video Rhino-Laryngoscope with C-MAC® HD Monitor

Combined with the lightweight and mobile C-MAC® HD monitor, the CMOS video rhino-laryngoscope provides a fast and convenient solution for FEES (Functional Endoscopic Evaluation of Swallowing). The CMOS videendoscope shown here has a diameter of only 2.9 mm. Control buttons allow convenient capturing of images and video sequences or the activation of still images. Whether in intensive care units, outpatient settings or nursing homes – the all-in-one solution allows great flexibility and mobility.

Special features of the CMOS video rhino-laryngoscope with C-MAC® HD monitor:

• CMACtouch – the interactive FULL HD touch screen can also be used with OR gloves
• CMACrec – choice between Click-to-Record, Auto-Record or Time Machine Mode*
• CMACmic – integrated microphone for recording videos with sound
• CMOS Video Rhino-Laryngoscope 11102CM with a diameter of only 2.9 mm
• Integrated LED light source for the best possible illumination
• Still image function for close examination of pathologies
• Additional data transfer from the SD card to the USB flash drive possible
• Direct connection to single-use videoendoscopes
• Optional mobile stand provides storage and safe transport

* With the new C-MAC® HD monitor, if the “Time Machine Mode” is activated and the record button is then pressed, 60 seconds of video sequence before pressing the recording button is saved automatically.

https://go.karlstorz.com/96311052-en-1
HD Video Rhino-Laryngoscope with TELE PACK+

The TELE PACK+ combines every requirement in FEES imaging: Monitor, camera and LED light source. Integrated data management enables comprehensive documentation. As a mobile unit used in conjunction with the HD video rhino-laryngoscope, the TELE PACK+ is especially suitable for use in doctors’ offices, for bedside examinations or in outpatient settings. CMOS Videoendoscope 11102CM with a diameter of 2.9 mm can also be combined with the TELE PACK+, however, it is not compatible with the accessories for stroboscopy.

Special features of the HD video rhino-laryngoscope with TELE PACK+:

- HD Video Rhino-Laryngoscope 11101HD has a diameter of 3.7 mm
- The compact TELE PACK+ features an intuitive user interface with integrated keyboard
- Still image function for close examination of pathologies
- Video recording with sound via microphone input
- Playback of videos in the respective patient mode possible
- 50 GB internal memory capacity
- Optional patient data export and import via SCENARA®
- Optional, modular COR mobile stand guarantees mobility
- As a further option, the accessories for stroboscopy (compatible and ready for immediate use with the TELE PACK+ and the HD video rhino-laryngoscope)

https://go.karlstorz.com/96311052-en-2
Video Tower

The video tower from KARL STORZ provides a high-end solution for the diagnosis of dysphagia and other endoscopic examinations in ENT. Together with the IMAGE1 S™ camera system, the HD video rhino-laryngoscope offers the possibility to use advanced visualization technologies. The S-Technologies CLARA, CHROMA, SPECTRA* A & B can be used to brighten dark areas in the background, to enhance contrast or highlight tissue or vessels through color shifting. Furthermore, the white light image can be be compared to the S-Technologies image side by side on the monitor. The COR equipment cart can be adapted to suit individual needs to ensure continued mobility and flexibility in the medical practice.

Special features of the video tower:

• In conjunction with the IMAGE1 S™ camera platform, the high-end video tower offers a wide range of examination options for ENT diagnostics
• Possibility to connect rigid or flexible endoscopes
• Side-by-side comparison of S-Technologies for advanced visualization (brightened background, more contrast, color shifting for highlighting vessels and tissues) and a white light image
• Imaging that can be used in many different specialties
• Image and video capture via USB flash drive on the camera control unit
• Playback of data on a PC
• Optional patient data export and import via SCENARA®
• Optional, modular COR equipment cart ensures mobility

* SPECTRA not for sale in the U.S.

https://go.karlstorz.com/96311052-en-3
Single-use Videoendoscopes Compatible with All Three FEES Product Solutions

Situations where the use of single-use videoendoscopes may be recommended:

- Highly infectious patients
- Clinics without in-house reprocessing departments
- Irregular use of flexible endoscopes
- Backup for reusable endoscopes

**Note:** For the 8403ZX C-MAC® version, E-BOX TP012 in conjunction with single-use videoendoscopes are required.

**Note:** To connect single-use videoendoscopes with the IMAGE1 S™ X-LINK, E-BOX for X-LINK TC028 is required.

https://go.karlstorz.com/96311052-en-4
“The equipment for FEES diagnosis from KARL STORZ was a real discovery for me. The CMOS video rhino-laryngoscope with the compact C-MAC® monitor and the HD video rhino-laryngoscope combined with the TELE PACK+ offer cost-effective solutions that meet the demands of a modern FEES service. These solutions are ideally suited for the examination of complex neurogenic dysphagia in the intensive care unit and/or stroke unit and also for early neurological rehabilitation or consultation purposes.

The equipment is ergonomic and convenient to use while providing excellent image quality. It is easily transported thanks to its light weight and cleaning is uncomplicated. The highly portable monitor and the endoscope diameter contribute to patient safety, practical use and very good functionality without compromising the quality of equipment in clinical use.”
### Configuration 1
- 11101HDK with IMAGE1 S™
- Videoendoscopes:
  - 11101HDK HD Video Rhino-Laryngoscope KIT
- Imaging:
  - TM220 27" FULL HD Monitor
  - TC301 IMAGE1 S™ X-LINK
  - TC201 IMAGE1S CONNECT® II
- Equipment Carts:
  - UG010 Base Module, equipment cart, narrow
  - UG020 Cover, equipment cart, narrow
  - UG051 Beam Package, equipment cart, high
  - UG310 Isolation Transformer
  - UG410 Earth Leakage Monitor
  - UG501 Monitor Holder Adaptor
  - UG520 Monitor Holding Arm, long
  - UG601 Drawer Unit with Lock, small
  - 2x UG603 Shelf, narrow
  - UG605 Keyboard Tray, narrow
  - 2x UG608 Equipment Rail, long
  - UG612 Camera Holder

### Configuration 2
- 11101HDK with TELE PACK+
- Videoendoscopes:
  - 11101HDK HD Video Rhino-Laryngoscope KIT
- Imaging:
  - TP101 TELE PACK+
- Equipment Carts:
  - UG010 Base Module, equipment cart, narrow
  - UG020 Cover, equipment cart, narrow
  - UG051 Beam Package, equipment cart, high
  - UG310 Isolation Transformer
  - UG410 Earth Leakage Monitor
  - UG501 Monitor Holder Adaptor
  - UG520 Monitor Holding Arm, long
  - UG601 Drawer Unit with Lock, small
  - 2x UG603 Shelf, narrow
  - UG605 Keyboard Tray, narrow
  - 2x UG608 Equipment Rail, long
  - UG612 Camera Holder

### Configuration 3
- 11102CMK with C-MAC®
- Videoendoscopes:
  - 11102CMK CMOS Video Rhino-Laryngoscope KIT
- Imaging:
  - 8404ZKK C-MAC® Monitor, Set
- Equipment Carts:
  - UG010 Base Module, equipment cart, narrow
  - UG020 Cover, equipment cart, narrow
  - UG051 Beam Package, equipment cart, high
  - UG310 Isolation Transformer
  - UG410 Earth Leakage Monitor
  - UG501 Monitor Holder Adaptor
  - UG520 Monitor Holding Arm, long
  - UG601 Drawer Unit with Lock, small
  - 2x UG603 Shelf, narrow
  - UG605 Keyboard Tray, narrow
  - 2x UG608 Equipment Rail, long
  - UG612 Camera Holder

### Holders for Videoendoscopes
- UG813 Adaptor Set COR
- 29005IFH Holder for Flexible Endoscopes
- 11301BC ProShield Protective Tube, for flexible telescopes, for single use
- 2x UG603 Shelf, narrow
- UG605 Keyboard Tray, narrow
- 2x UG608 Equipment Rail, long
- UG612 Camera Holder

### Accessories
- 40160033 TELE PACK
- 40160031 Microphone Set

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More information on the new COR mobile stand can be found in ENDOWORLD® 96282006E
Videoendoscopes

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
13242XL Leakage Tester
11025E Pressure Compensation Cap
27677SL Case

11102CMK CMOS Video Rhino-Laryngoscope KIT, direction of view 0°, angle of view 100°, working length 30 cm, outer diameter 2.9 mm, deflection up/down 140°/140°
The following accessories are included in delivery:
11102CM CMOS Video Rhino-Laryngoscope
13242XL Leakage Tester
11025E Pressure Compensation Cap
27677SL Case

Imaging

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 (1 A), wall mount with VESA 100 adaptor

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

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 Processor Module, power supply 100 – 240 VAC, 50/60 Hz

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 Processor 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 400F

* Also available in the following languages: DE, ES, FR, IT, PT, RU
C-MAC® Monitor for CMOS Endoscopes, Set, screen size 8” with 1200 x 1920 pixels resolution, two camera inputs, a USB and a HDMI port, optimized user interface with touch screen, video and image capture in real time on SD card, playback of recorded video clips and still images, data transfer from SD card to USB flash drive possible, splash-proof according to IP54, suitable for wipe disinfection, shock-resistant ABS plastic housing, intelligent power management with rechargeable Li-ion batteries, VESA 75 mounting option, power adaptor for EU, UK, USA and Australia, power supply 110-240 VAC, 50/60 Hz, for use with CMOS videoendoscopes consisting of:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8404ZX</td>
<td>C-MAC® Monitor</td>
</tr>
<tr>
<td>8401YSD</td>
<td>SD Card ULTRA, 16 GB</td>
</tr>
<tr>
<td>8403YZ</td>
<td>Protection Cap</td>
</tr>
<tr>
<td>8401YCA</td>
<td>VESA 75 Quick Clip</td>
</tr>
<tr>
<td>ET27-30-0006091</td>
<td>Power Supply</td>
</tr>
<tr>
<td>ET27-30-0004697</td>
<td>Plug Adaptor EU</td>
</tr>
<tr>
<td>ET27-30-0004698</td>
<td>Plug Adaptor UK</td>
</tr>
<tr>
<td>ET27-30-0004699</td>
<td>Plug Adaptor USA/JP</td>
</tr>
<tr>
<td>ET27-30-0004700</td>
<td>Plug Adaptor AUS</td>
</tr>
<tr>
<td>ET27-30-0004701</td>
<td>IEC (ROW) Plug</td>
</tr>
<tr>
<td>ET27-30-0004370</td>
<td>Adaptor Cable USA/JP</td>
</tr>
</tbody>
</table>

E-BOX, for X-LINK, for use with flexible videoendoscopes (8-pin), for single use, compatible with IMAGE1 S™ X-LINK TC301

Accessories for Stroboscopy (compatible with HD Video Rhino-Laryngoscope 11101HD)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40160033</td>
<td>TELE PACK Stroboscopy Footswitch, footswitch with USB port and integrated activation key for stroboscopy function (plug &amp; play), for use with KARL STORZ TELE PACK X LED TP100 and TELE PACK+ TP101</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40160031</td>
<td>Microphone Set, for use with KARL STORZ TELE PACK X LED TP100 and TELE PACK+ TP101 consisting of:</td>
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<tr>
<td>20140030</td>
<td>Microphone Fitting</td>
</tr>
<tr>
<td>20140030MH</td>
<td>Microphone Holder</td>
</tr>
<tr>
<td>20140030T</td>
<td>Connector for Microphone Membrane</td>
</tr>
</tbody>
</table>
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.