Flexible Single-use Video Endoscopes
Sterile
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Benefits of flexible single-use video endoscopes

Sterile
Sterile products reduce the risk of infection through pathogens.

Available in lengths 30 or 75 cm
Available in two different lengths, single-use video endoscopes can be used in many ENT applications such as, for example, standard examinations, swallowing diagnostics or TNE examinations.

Ready for immediate use
Single-use video endoscopes are sterile on delivery and are therefore ready for immediate use at any time.

Good image quality
A CMOS sensor and powerful LED illumination provide good resolution and lighting conditions.

Easy handling
The flexible single-use video endoscopes are easy to use. Buttons on the monitor can be used to control video and image capture.

High mobility
In combination with the C-MAC® 8403ZX Monitor and the E-BOX, the flexible single-use video endoscopes offer good prerequisites for mobile use.

Ergonomic design
The ergonomic handle design makes the flexible single-use video endoscopes convenient to use.

Straightforward documentation
The monitor allows the patient to become actively involved during an examination. Furthermore, the C-MAC® 8403ZX or C-HUB® II makes the documentation of videos and images possible.
Fields of Application

Both single-use video endoscopes can be used for various ENT applications. The flexible single-use video rhino-laryngoscope (length 30 cm) can be used for, e.g., laryngoscopy and pharyngoscopy as well as swallowing examinations. The single-use video esophagoscope (working length 75 cm) is also inserted transnasally and allows endoscopic examination of the esophagus. In conjunction with the E-BOX and its integrated camera control unit, both single-use video endoscopes provide a compact solution. Combined with the lightweight C-MAC\textsuperscript{®} Monitor 8403ZX or C-HUB\textsuperscript{®} II, they provide a mobile and convenient solution for the hospital, the doctor’s office, centers for dysphagia and reflux examinations or outpatient care.

Why single-use?

There have been considerable changes on many markets due to new hygiene directives and legal regulations. KARL STORZ offers flexible single-use video endoscopes to meet these challenges at an early stage and to optimally respond to changing customer demands.

- Single-use products reduce the risk of infection through pathogens. Single-use video endoscopes are thus suitable for use on highly infectious or immunocompromised patients.
- The products are already sterile on delivery and thus provide an ideal solution for clinics and practices where flexible endoscopes can only be reprocessed at great cost and inconvenience.
- In the case of a defective reusable endoscope or in bottleneck situations, single-use video endoscopes are available for immediate use as a replacement.
- Less work for clinics
  - No cleaning of products necessary
  - Easy disposal
Overview of the new flexible single-use video endoscopes

091330-06* **Video Rhino-Laryngoscope**, sterile, for single use, package of 6,
for use with E-BOX TP012, direction of view 0°, angle of view 90°,
working length 30 cm, outer diameter 3.5 mm, deflection up/down 140°/140°

091370-06* **Video Esophagoscope**, sterile, for single use, package of 6,
for use with E-BOX TP012, direction of view 0°, angle of view 90°,
working length 75 cm, outer diameter 3.5 mm, deflection up/down 210°/140°

TP012 **E-BOX**, for flexible video endoscopes for single use, compatible with
C-MAC® Monitor 8403ZX and C-HUB® II 20290320
C-MAC® Monitor

for the connection of flexible single-use video endoscopes

The C-MAC® Monitor (8403ZX) enables mobile and flexible use in the field of ENT. The dual port allows, for example, a reusable video rhino-laryngoscope and a single-use video to be simultaneously connected to the C-MAC® monitor.

- Two video endoscopes can be connected simultaneously (dual video endoscope input)
- High resolution and high-contrast image playback
- Documentation with SD memory card (max. 32 GB) and subsequent data storage on a USB memory stick
- System is open to all C-MAC® components (forward and backward compatibility)
- Rapid toggling between video sources
- Monitor has an operating time of 2 h and can be powered up and used at the same time
- HDMI output for connecting an external monitor

8403ZXK

C-MAC® Monitor for CMOS Endoscopes, Set, screen size 7” with 1280 x 800 pixel resolution, two camera inputs, a USB and a HDMI port, optimized user interface, 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 video endoscopes including:

SD Card ULTRA, 16 GB
Protection Cap
VESA 75 Quick Clip
Mains Adaptor Set
C-HUB® II

For the connection of flexible single-use video endoscopes

- USB output enables connection to a PC, laptop or Mac
- S-Video/HDMI outputs enable connection to an external monitor, video printer or documentation unit
- An office computer can be used for archiving and for image or video transfers

20290301 C-HUB® II Camera Control Unit, for use with C-CAM® Camera Head 20290132, Electronic Module 8402X, C-MAC® Connecting Cable 8403X or compatible CMOS video endoscopes, interfaces: USB 2.0, S-Video output (NTSC), HDMI output, power socket including:
- C-HUB® Power Supply
- S-Video (Y/C) Connecting Cable
- USB Connecting Cable
- Video Editor

It is recommended to check the suitability of the product for the intended procedure prior to use.
Shaping the Future of Endoscopy with you