CMOS Technology in Otorhinolaryngology

Maximum compatibility for state-of-the-art diagnosis
New

Diameter of only 2.9 mm
**CMOS Video Rhino-Laryngoscope**

The CMOS video rhino-laryngoscope from KARL STORZ is a compact, mobile, and inexpensive solution for video endoscopy: Don’t worry about the camera control unit, camera head, light cable and light source – all of them are already integrated in the CMOS video rhinolaryngoscope. In addition, it features an optimal field of view, large angle of view, sensitive control, and extensive deflection of the distal end. The CMOS video rhino-laryngoscope is available in diameters 2.9 mm and 3.7 mm. The 2.9 mm video rhino-laryngoscope is particularly suitable for cramped or tight anatomical conditions. With its light and mobile universal monitor, the CMOS video rhino-laryngoscope is a convenient and fast solution.

Choose the CMOS video rhino-laryngoscope and enjoy its outstanding features:

- Available in diameters 2.9 mm and 3.7 mm
- 2.9 mm video rhino-laryngoscope is particularly suitable for tight anatomical conditions
- Integrated CMOS chip technology
- Mobile, all-in-one solution – the lightweight monitor ensures quick installation and high versatility of the CMOS video rhino-laryngoscope
- Optimal field of view for excellent visualization of pathologies
- Large angle of view for ideal orientation
- 140° deflection in both directions
- Integrated LED light source for best possible illumination
- Sensitive yet robust control with ergonomic handle

Function keys on the endoscope enable more comprehensive use. This enables the quick and convenient recording of images and video sequences as well as the use of the white balance function for monitoring image quality. Further adjustments can be made on the universal monitor.
Monitor

Dual video endoscope connection
It is possible to connect two video endoscopes at the same time, for example, the CMOS video rhino-laryngoscope and the CMOS video otoscope. Endoscopes can be exchanged within seconds at the touch of a button.

Additional data protection and HDMI output
The new USB port provides additional protection for data previously saved on an SD card. The new HDMI output allows the monitor image to be routed to an additional monitor.
**Trifunctional power button**

Briefly pressing the power button puts the monitor in a standby mode. Pressing and holding down the button for a moderate time interval switches it on and off. Holding the power button down longer leads to a reset.

**New power plug system**

The user has two possibilities: Either the power plug is inserted in the socket without a fuse so that the monitor can be detached from the charging cable quickly in an emergency or the power plug is firmly screwed into the socket so that it cannot be pulled out accidentally.
C-CAM® Camera Head

- For connection to all rigid endoscopes and fiberscopes with Universal Monitor 8403 ZX
- Extremely compact and light
- Plug & Play for optimal handling
- Particularly mobile with the LED battery light source

CMOS Video Otoscope/USB Video Otoscope

- Video otoscopy in conjunction with Universal Monitor 8403 ZX or the new USB video otoscope in conjunction with your laptop/desktop PC
- Shutter/video release and manual focus ring for documentation and imaging
- Integrated LED illumination with high light intensity

C-HUB® II

- C-CAM®, video rhino-laryngoscope or the CMOS video otoscope can be connected to the C-HUB® II Plug & Play
- USB output for connection to a PC, laptop or Mac
- S-Video/HDMI output for connection with an external monitor, video printer or documentation unit
- Existing office computers can be used for archiving as well as image and video processing
Maximum Compatibility

Flexible Fiberscopes

Rigid Endoscopes

USB Video Otoscope 121210 K

C-CAM® Camera Head 202901 32

3.7 mm CMOS Video Rhino-Laryngoscope 11101 CMK

2.9 mm CMOS Video Rhino-Laryngoscope 11102 CMK

CMOS Video Otoscope 121200 K

Monitor 8403 ZXK

C-HUB® II 202903 01

Monitors and storage media i.e. DVD recorder via S-Video / HDMI

PCs, laptops etc. via USB
Instruments

11102 CMK

11102 CMM **CMOS Video Rhino-Laryngoscope KIT**, with monitor
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:

11102 CMK **CMOS Video Rhino-Laryngoscope KIT**
8403 Z XK **C-MAC® Monitor for CMOS Endoscopes**, set

11101 CMK

11101 CMM **CMOS Video Rhino-Laryngoscope**, with monitor
Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°

The following accessories are included in delivery:

11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
8403 Z XK **C-MAC® Monitor for CMOS Endoscopes**, set
Optional Accessories

**C-CAM® Camera Head, 8-pin**, one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with C-HUB® II 202903 01 and 20290320 as well as C-MAC® 8402 ZX and 8403 ZX

**CMOS Video Otoscope KIT**, for use with C-HUB® II 202903 01 and Monitor 8403 ZX including:
- **Ear Speculum**, outer diameter 4 mm, black, for single use, unsterile, package of 100

**C-HUB® II Camera Control Unit**, for use with C-CAM® Camera Head 202901 32, Electronic Module 8403 ZX or compatible KARL STORZ 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**
- **KARL STORZ Video Editor**

**KARL STORZ Video Editor**, standalone software application that allows editing of previously recorded videos for teaching and presentation purposes, for Microsoft® Windows® XP/Vista™/7™/8™

**KARL STORZ Video Editor**, USB, software application used to edit videos for teaching and presentation purposes, for Microsoft® Windows® XP/Vista™/7™/8™

**USB Video Otoscope Set** including:
- **Ear Speculum**, for 121200 and 121210, 4 mm
- **KARL STORZ Video Editor**
Optional Accessories

8401 YA  **Stand**, for C-MAC® monitor, height 120 cm, rollable with five feet and antistatic castors, crossbar 25 cm x diameter 25 mm, for positioning the monitor, with tray for laryngoscopes, dimensions (w x d x h): 30 x 20 x 10 cm

8401 YAA  **Crossbar**, for Stand 8401 YA, 50 cm x diameter 25 mm, for positioning C-MAC® Monitors 8401 ZX, 8402 ZX and 8403 ZX, for use with VESA 75 Quick Clip 8401 YCA and Clamp 8401 YB

8401 YAB  **Same**, 70 cm x diameter 25 mm

8401 YB  **Clamp**, VESA 75 standard, for fixation of C-MAC® monitor to round profile with diameter 20-43 mm and square profile with diameter 16-27 mm, for use with Monitors 8401 ZX, 8402 ZX and 8403 ZX

29005 KHN  **Camera Mount**, for mounting to Standard Equipment Rail 29003 GS, suitable for all KARL STORZ endoscopy cameras

621 C  **Quiver Set**, for disinfection and storage of flexible endoscopes up to working length 30 cm including:
- **Quiver Head**, for flexible endoscopes
- **Metal Tube**
- **Bottom Cap**
- **Holder**, to be screwed to a storage cabinet

621 SA  **Adaptor for Standard Equipment Rails**, 53.5 x 39 x 24 mm, adaptor and 2 screws M4 x 20 mm, for use with Holder 620 N, for Endoscope Quivers 621 A – 621 E, 621 H
Reprocessing Container

- Secure storage with silicone holders
- Simple closure mechanisms in the lid
- Carrying handles on the lid
- Fracture-resistant plastic

![Reprocessing Container Image]

39405 AS **Plastic Container for Flexible Endoscopes**, especially suited for gas and hydrogen peroxide (Sterrad®) sterilization and storage, for use with one flexible endoscope, external dimensions (w x d x h): 550 x 260 x 90 mm

Please note: The illustrated instrument is not included in the tray.

It is recommended to check the suitability of the product for the intended procedure prior to use.