C-MAC® for Neonatology and Pediatrics
The Premium Class for pediatric airway management
Endoscopes/Fiberscopes (with eyepiece)

C-MAC® S Video Laryngoscopes for single use

C-MAC® Video Laryngoscopes

FIVE (Flexible Intubation Video Endoscope)

C-HUB®

OR1™ Monitor

C-MAC® Monitor

C-MAC® POCKET MONITOR

C-CAM®

C-MAC® Connecting Cable

C-MAC® S Pediatric IMAGER
When you are looking for solutions that fit...

Children are not small adults. Anatomical and physiological differences between infants, children and adults make even the normal pediatric airway difficult for the inexperienced intubator. So adequate experience as well as the right instrument is needed for airway management in the pediatric population.

The new C-MAC® Premium line from KARL STORZ, one of the leading companies in the field of airway management, provides a custom-fit solution that meets the most stringent demands in pediatrics and neonatology. The continuous expansion of the product portfolio and the realization of a universal C-MAC® system interface supports the system approach of the new Premium line. In the field of pediatrics, this also leads to a fully flexible intubation platform for anesthesiology and emergency medicine in the clinical setting.

No matter if it is a routine, anticipated difficult, or unanticipated difficult intubation – the intubation instruments from KARL STORZ offer the right solution to the daily challenges encountered in airway management. Five different blades are now available for video laryngoscopy in pediatrics and neonatology: MILLER 0 and 1, MACINTOSH 0 and 2 as well as the D-BLADE Ped. The latter was especially designed for managing difficult airways in children and closes the gap between MACINTOSH video laryngoscopes and flexible endoscopes.

The C-MAC® monitor, which allows the simultaneous connection of several endoscopes at the same time, offers the possibility to plan and execute intubation with a single system.
The C-MAC® Monitor: The Heart of the C-MAC® System

- System open to all C-MAC® components (forward and backward compatibility)
- 7” TFT wide viewing angle (160°) with enhanced image quality
- Rapid toggling between video sources possible -> “plan B” is already connected
- HDMI output for connecting an external monitor
- Documentation and display of images and videos in real time
- Easy data backup to USB flash drive for quality control
- System can be used while charging

C-MAC® Video Laryngoscopes

C-MAC® S Video Laryngoscopes
The C-MAC® Monitor: The Heart of the C-MAC® System

Flexible Intubation Video Endoscopes

Intubation Fiberscopes

Retromolar Intubation Endoscopes

Flexible Intubation Video Endoscopes
The C-MAC® Pocket Monitor: The Emerge

- 3.5” OTI® (Open To Intubate) display with wide view angle (160°)
- High-contrast image even in bright daylight
- Universal C-MAC® system interface, tailored to your airway management
- Real-time documentation for quality assurance
- Exchangeable, rechargeable battery – always ready for use
- Completely watertight (IPX8)
- C-MAC® PM connecting cable allows optimal visualization coupled with a well-balanced C-MAC® video laryngoscope

C-MAC® Video Laryngoscopes
- Standard MACINTOSH and MILLER video laryngoscopes for the safe intubation of infants and children
- D-BLADE Ped. with strong curvature for the particularly difficult airway

C-MAC® S Video Laryngoscopes
- Single-use video laryngoscopes for optimal protection against cross-contamination
The C-MAC® Pocket Monitor: The Emergence Tool for Time-critical Situations

**OTI® (Open To Intubate) Display**
- The video laryngoscopes are ready for immediate use after starting the monitor

**Real-time Documentation for Quality Assurance**
- BlueButton enables images and videos to be recorded to internal memory and retrieved via the USB data cable

**Intelligent Battery Management**
- Uninterrupted readiness at no extra cost thanks to exchangeable and rechargeable battery

**C-MAC® PM Connecting Cable**
- The C-MAC® PM connecting cable enables flexible positioning of the monitor for difficult-to-access patients
The C-MAC® Video Laryngoscope for Pediatrics

Large selection for small patients

- Robust and light: High stability and shock resistance; light alloy design
- Particularly flat model, especially suited for pediatrics and neonatology
- Straightforward plug & play thanks to universal C-MAC® system interface
- BlueButton: Documentation via innovative multifunctional button
- Reprocessing up to 93 °C
- Ergonomic handle designed to meet requirements in pediatrics
- For routine clinical use and training

C-MAC® MACINTOSH #2 and #0

C-MAC® MILLER #1 and #0

C-MAC® D-BLADE Ped.
The C-MAC® S Pediatric IMAGER
The ideal solution with single-use video laryngoscope blades

The pediatric single-use video laryngoscope blades form a perfect symbiosis with the C-MAC® S Pediatric IMAGER and oriented towards the highest hygiene standards.

- Blade and handle form one continuous piece: Risk of cross-contamination is drastically reduced
- Exchange of C-MAC® S video laryngoscopes within seconds
- BlueButton: Documentation via innovative multifunctional button
- Straightforward Plug & Play thanks to universal C-MAC® system interface
- Break-resistant C-MAC® S video laryngoscopes
- Ergonomic handle designed to meet requirements in pediatrics
- For direct and indirect laryngoscopy with MILLER blades
The FIVE 3.0 for the Unexpected Difficult Airway

Fine, fast, focused – the new visualization in flexible intubation

With the 3.0 x 51.5 and 4.0 x 65 Flexible Intubation Video Endoscopes (FIVE), KARL STORZ once again sets a new direction in airway management. Similar to the C-MAC® video laryngoscopes, the FIVEs deliver clear, pixel-free images without a Moiré effect.

The new FIVE 3.0 has a shortened working length, which was specially adapted to the anatomy of pediatric and neonatal patients and the absence of a working channel makes instrument cleaning extremely easy and fast.

- Compatible with the C-MAC® monitor and the C-HUB® camera control unit
- Compact design and ergonomic handle shape
- High image resolution and video imaging in 4:3 format
- Integrated LED light source
- Greater sheath stiffness for controlled handling
Accessories: Little things that make work easier

We do not stop working when our products are finished – because we want to make life easier for you…

How are flexible fiberscopes and rigid eyepiece endoscopes connected to the monitor? With C-CAM®.

And how are instruments stored?

In addition to the unobtrusive C-MAC® protective cover and the well-organized C-MAC® PM bag…

...we can also offer mobile airway management solutions.
**Instruments**

8403 ZKK  **C-MAC® Monitor for CMOS Endoscopes**, 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:

*Protection Cap*
*VESA 75 Quick Clip*
*Mains Adaptor Set*

8403 X  **C-MAC® Connecting Cable**, with C-MAC® system interface, for C-MAC® Monitor 8403 ZKK or C-HUB® II 20290301, length 200 cm, for use with C-MAC® Video Laryngoscopes 8403 xxx

8403 XDK  **C-MAC® POCKET MONITOR Set**, unit with LCD monitor and power supply for all C-MAC® video laryngoscopes, with C-MAC® system interface, screen size 3.5”, documentation of images and video sequences saved on internal memory, monitor movable via two rotation axes, rechargeable Li-Ion battery, 1 h operation time, exchangeable battery pack, 2 h charging time, power management with capacity indicator, protection class IPX8, for use with C-MAC® Video Laryngoscopes 8403 xxx including:

*Battery*, rechargeable
*USB Data Cable*

8403 XDP  **C-MAC® PM Connecting Cable**, for the transmission of digital signals from C-MAC® PM 8403 XD to C-MAC® Video Laryngoscopes 8403 xxx (C-MAC® system interface), length 50 cm
For ceps, for children, modified, length 20 cm, suitable for endoscopic foreign body removal, for use with video laryngoscopes sizes 1 and 2

809120 MAGILL Forceps, for children, modified, length 20 cm, suitable for endoscopic foreign body removal, for use with video laryngoscopes sizes 1 and 2

20 2901 32 C-CAM® Camera Head, 8-pin, one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, for use with C-HUB® 20 2901 01 and C-HUB® II 20 2903 01 as well as C-MAC® Monitors 8402 ZX/8403 ZX

8403 XDL Charging Unit, for one rechargeable battery 8403 XDA for C-MAC® POCKET MONITOR 8403 XD, with power supply and mains adaptor for EU, UK, USA and AUS, power supply 100-240 VAC, 50/60 Hz, suitable for wipe disinfection, for use with battery for C-MAC® PM

8403 XDA Battery, rechargeable Li-ion battery for power supply of C-MAC® PM 8403 XD, charging via Charging Unit 8403 XDL, optimal operation time of 60 min, suitable for wipe disinfection

8403 XDD USB Data Cable, USB 2.0 port, for data transfer from C-MAC® PM 8403 XD to a computer, length 200 cm

11301 ABXK Flexible Intubation Video Endoscope Set 3.0 x 51.5, CMOS technology, for use with C-MAC® Monitor 8403 ZX and C-HUB® II 20 2903 01,
- Deflection up/down: 140°/140°
- Direction of view: 0°
- Angle of view: 100°
- Working length: 51.5 cm
- Total length: 72 cm
- Distal tip outer diameter: 3 mm

11302 BDXK Flexible Intubation Video Endoscope Set 4.0 x 65, CMOS technology, with suction valve, for use with C-MAC® Monitor 8403 ZX and C-HUB® II 20 2903 01,
- Deflection up/down: 140°/140°
- Direction of view: 0°
- Angle of view: 100°
- Working length: 65 cm
- Total length: 93 cm
- Distal tip outer diameter: 4 mm
8403 DXC  **C-MAC® Video Laryngoscope MIL #0,**
CMOS technology, with MILLER laryngoscope blade, size 0, with C-MAC® system interface, documentation of images and video sequences via the BlueButton, for use with C-MAC® Connecting Cable 8403 X for C-MAC® Monitor 8403 ZXK or C-HUB® II 20290301 as well as C-MAC® PM 8403 XD

8403 GXC  **C-MAC® Video Laryngoscope MIL #1,**
CMOS technology, with MILLER laryngoscope blade, size 1, with C-MAC® system interface, documentation of images and video sequences via the BlueButton, for use with C-MAC® Connecting Cable 8403 X for C-MAC® Monitor 8403 ZXK or C-HUB® II 20290301 as well as C-MAC® PM 8403 XD

8403 EXC  **C-MAC® Video Laryngoscope MAC #0,**
CMOS technology, with MACINTOSH laryngoscope blade, size 0, with C-MAC® system interface, documentation of images and video sequences via the BlueButton, for use with C-MAC® Connecting Cable 8403 X for C-MAC® Monitor 8403 ZXK or C-HUB® II 20290301 as well as C-MAC® PM 8403 XD

8403 KXC  **C-MAC® Video Laryngoscope MAC #2,**
CMOS technology, with MACINTOSH laryngoscope blade, size 2, with C-MAC® system interface, documentation of images and video sequences via the BlueButton, for use with C-MAC® Connecting Cable 8403 X for C-MAC® Monitor 8403 ZXK or C-HUB® II 20290301 as well as C-MAC® PM 8403 XD

8403 HXP  **C-MAC® Pediatric Video Laryngoscope D-BLADE,**
CMOS technology, for difficult intubation in children, with C-MAC® system interface, documentation of images and video sequences via the BlueButton, for use with C-MAC® Connecting Cable 8403 X for C-MAC® Monitor 8403 ZXK or C-HUB® II 20290301 as well as C-MAC® PM 8403 XD
8403 XSPK  **C-MAC® S Pediatric IMAGER, Set**, with C-MAC® system interface, for manual and mechanical disinfection up to 65 °C and High Level Disinfection (HLD) acc. to US standards, including Pressure Compensation Cap 11025 E and Leakage Tester 13242 XL, for use with C-MAC® Connecting Cable 8403 X, C-MAC® Monitor 8403 ZX, C-MAC® POCKET MONITOR 8403 XD or C-HUB® II 290301 and single-use C-MAC® S Video Laryngoscopes 051110-10, 051111-10

051110-10*  **C-MAC® S Video Laryngoscope MIL #0**, for single use, package of 10, for use with KARL STORZ C-MAC® S Pediatric IMAGER 8403 XSP

051111-10*  **C-MAC® S Video Laryngoscope MIL #1**, for single use, package of 10, for use with KARL STORZ C-MAC® S Pediatric IMAGER 8403 XSP

8403 YD  **Protective Bag, blue, for the C-MAC® system**, made of water-resistant and sturdy material, washable, separate compartments for the monitor and three C-MAC® video laryngoscope blades with electronic module, for use with C-MAC® Monitor 8401 ZX/8402 ZX/8403 ZX, Electronic Module 8401 X/8402 X, power supply and 3x C-MAC® video laryngoscopes

8403 YE  **Bag for Intubation Set -C22-, ULM model**, made of water-resistant and sturdy material, washable, separate compartments for C-MAC® video laryngoscopes with C-MAC® POCKET MONITOR and for conventional laryngoscopes, for use with C-MAC® POCKET MONITOR 8401 XDK/8403 XDK, C-MAC® Video Laryngoscopes 8401 xxx/8403 xxx and conventional laryngoscopes
UG 120  **Equipment Cart**, narrow, tall, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, central beam with integrated electrical subst distributors with 12 sockets, grounding plugs, Dimensions in mm (w x h x d):
   Equipment Cart: 660 x 1474 x 730,
   Shelf: 450 x 25 x 510, caster diameter: 150 mm, including:
   - **Base Module**, equipment cart, narrow
   - **Cover**, equipment cart, narrow
   - **Beam Package**, equipment cart, large
   - 3x **Shelf**, narrow
   - **Drawer Unit with Lock**, narrow
   - 2x **Equipment Rail**, long
   - **Camera Holder**
   - 5x **Mains Cords**, length 100 cm

UG 110  **Equipment Cart**, narrow, small, rides on 4 antistatic dual wheels equipped with locking brakes, mains switch on cover, energy beam with integrated electrical subst distributors with 6 sockets, grounding plugs, Dimensions in mm (w x h x d):
   Equipment Cart: 660 x 1265 x 730,
   Shelf: 450 x 25 x 510, caster diameter: 150 mm, including:
   - **Base Module**, equipment cart, narrow
   - **Cover**, equipment cart, narrow
   - **Beam Package**, equipment cart, small
   - 2x **Shelf**, narrow
   - **Drawer Unit with Lock**, narrow
   - 2x **Equipment Rail**, long
   - 5x **Mains Cords**, length 100 cm

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/8403 ZX

8401 YAB  **Crossbar**, for Stand 8401 YA, 70 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

UG 630  **Bracket**, for mounting standard bars (diameter 25 mm) to equipment rails, package of 2

UG 623  **Multifunctional Holder**, 2-part, for mounting poles, diameter 25 mm, package of 2, for use with Equipment Carts UGxxx
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, dimensions (w x d x h): 30 x 20 x 10 cm, for use with Crossbar 8401 YAA and Crossbar 8401 YAB

* The displayed instruments are not included with the stand.

8401 YH  **Holder for C-MAC®,** consisting of two parts: 1 holder for five C-MAC® video laryngoscope blades and 1 holder for one electronic module, made of thermoplastic material, wipe disinfection, to be fixed to a tray

11301 BC  **ProShield Protective Tube**, for flexible telescopes, unsterile, for single use, package of 10, distal closed, for use with Holder for Flexible Endoscopes 29005 IFH

29005 IFH  **Holder for Flexible Endoscopes**, for mounting to standard tubes, incl. installation accessories
**20020085**  
**TROLL-E Airway Mobile Stand**, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, for mounting monitors with VESA 75/100 connection, integrated cable conduit in vertical beam and cable manager, load capacity for monitor: max. 15 kg,  
Dimensions:  
Mobile stand: 670 x 1660 x 670 mm (w x h x d),  
Caster diameter: 100 mm  
Trolley is delivered unassembled.  
including:  
**Subrack**, for mobile stand  
**Beam Module**, with tube  
**Drawer**  
**Equipment Rail**  
**Cross Tube Adaptor**  
**Stainless Steel Round Pipe**, length 25 cm

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**20020086**  
**C-MAC® TROLL-E Mobile Stand**, rides on 4 antistatic dual wheels, 2 equipped with locking brakes, with stainless steel tube,  
Dimensions:  
Mobile stand: 670 x 1500 x 670 mm (w x h x d),  
Caster diameter: 100 mm  
Trolley is delivered unassembled.  
including:  
**Subrack**, for mobile stand  
**Top Cover**, with guide sleeve  
**Stainless Steel Tube**, length 135 cm  
**Equipment Rail**  
**Cross Tube Adaptor**  
**Stainless Steel Round Pipe**, length 25 cm
It is recommended to check the suitability of the product for the intended procedure prior to use.
Shaping the Future of Endoscopy with you