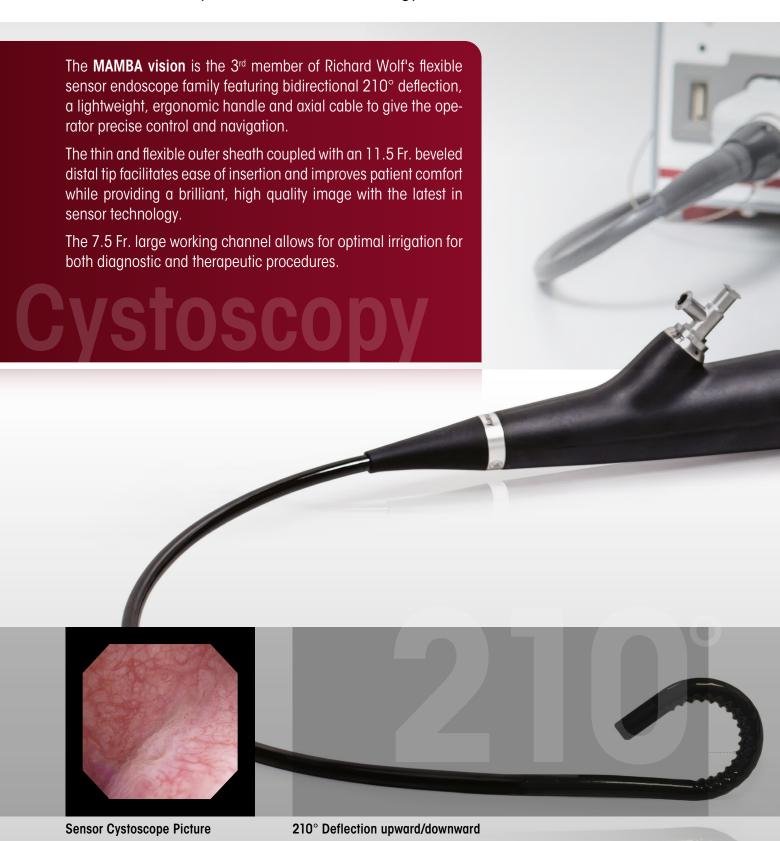




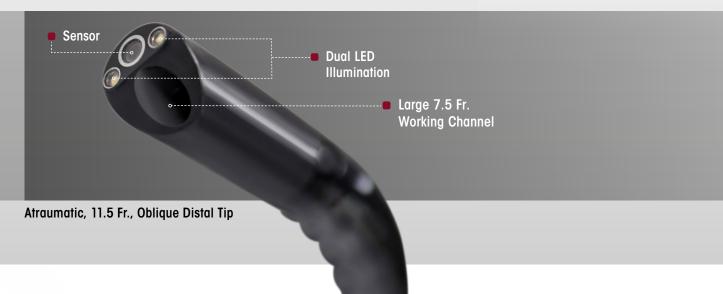


Ultimate flexibility meets sensor technology











Flexible Single Channel Sensor Ureterorenoscope

The multi-talented instrument for all-around application



The **BOA vision** boasts the latest sensor technology for a crisp, clear image. The slim design of 6.6 Fr. on the distal tip, paired with improved shaft stiffness make this single channel flexible URS ideal for difficult and small anatomy.

Engineered with a 3.6 Fr. working and irrigation channel and bidirectional 270° deflection, the BOA vision can be inserted through an access sheath as small as 9.5 Fr..



Sensor URS Picture



Boa vision ...



... fits through a 9.5 Fr. Access Sheath





Boa

Flexible Single Channel Sensor Ureterorenoscope

- Fits through 9.5 Fr. access sheaths
- 270° deflection upward/downward
- 3.6 Fr. working channel
- Atraumatic, 6.6 Fr., beveled distal tip for easy insertion
- 8.7 Fr. sheath ø
- Integrated LED illumination and distal image sensor
- Two programmable camera buttons capable of controlling up to four functions
- Special Imaging Mode (SIM) compatible
- Ergonomic handle
- Axial cable



Atraumatic, 6.6 Fr., Oblique Distal Tip

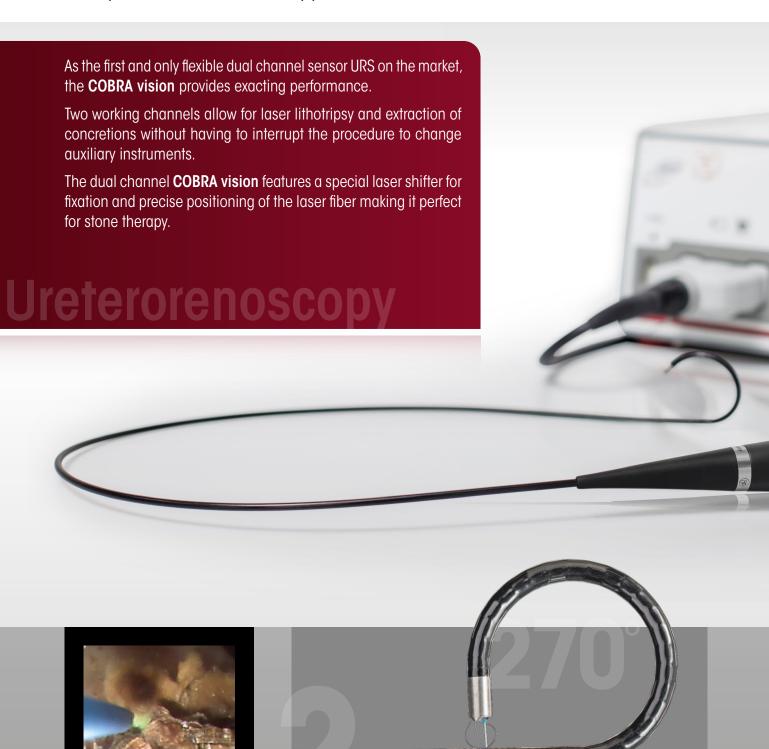


270° Deflection upward/downward



Flexible Dual Channel Sensor Ureterorenoscope

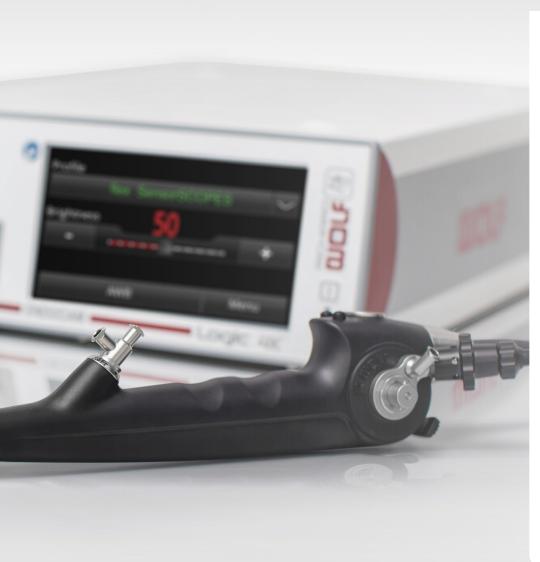
The specialist for stone therapy



Sensor URS Picture

Two independent channels for the simultaneous use of tipless baskets and laser fibers

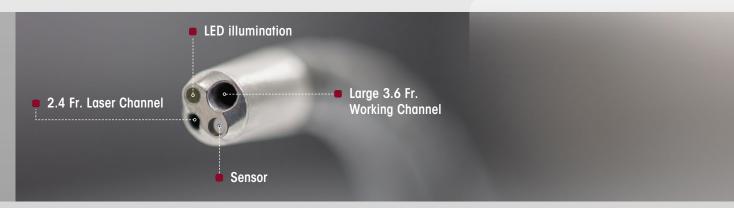






Flexible Dual Channel Sensor Ureterorenoscope

- 270° deflection upward/downward
- Two independent irrigation and laser channels (3.6 Fr. and 2.4 Fr.) for the simultaneous use of tipless baskets and laser fibers
- Atraumatic, 5.2 Fr., beveled distal tip for easy insertion
- 9.9 Fr. sheath ø
- Integrated LED illumination and distal image sensor
- Two programmable camera buttons capable of controlling up to four functions
- Special Imaging Mode (SIM) compatible
- Ergonomic handle
- Axial cable



Atraumatic, 5.2 Fr., Oblique Distal Tip

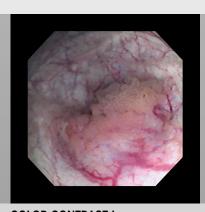
ENDOCAM Logic 4K SIMply LOGICal

Your view into the future of endoscopic camera systems

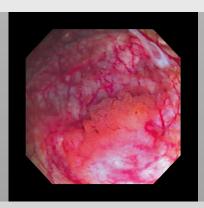


SIM – Special Imaging Modes: The difference is in the detail

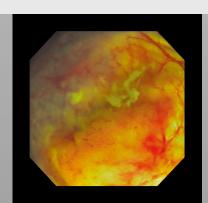
Alongside visualization of natural colors 6 digital modes are available as options. Depending on the situation, the Special Imaging Modes can improve tissue differentiation. The stored SIM can be switched on and off at the touch of a button using the camera head button.



COLOR CONTRAST IDifferentiated color display and contrast enhancement in images with a high proportion of red.



COLOR CONTRAST IIDifferentiated color display, and contrast enhancement in pale images.



COLOR CONTRAST IIIStrongly differentiated color display, and contrast enhancement in pale images.



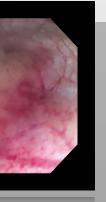
STANDARDNatural color display.

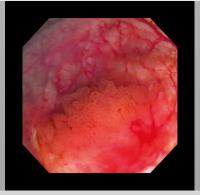




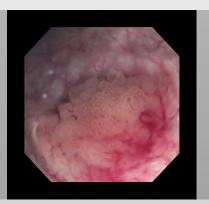
ENDOCAM 4K

- Brilliant 4K UHD resolution of 3840 x 2160 pixels for live display
- Integrated Special Imaging Modes (SIM): Digital algorithms for easier tissue differentiation
- Compatible with all application parts and camera heads of ENDOCAM Logic HD
- Storage of high-resolution images and videos on USB storage devices
- User-friendly
 Clinically developed presets for different disciplines
- Integratable in core nova,
 the Operating Room integration
 system from Richard Wolf





CONTRAST IIntensified color display, and contrast enhancement in pale images.



CONTRAST IISubdued color display for strongly saturated image scenes. The color intensity is reduced.



HDR (High Dynamic Range) Reduction of overexposures. Lightening of shadows.

Flexible Sensor Endoscopes for Urology

Technical Data

		MAMBA vision Flexible Sensor Cystoscope	BOA vision Flexible Single Channel Sensor Ureterorenoscope	COBRA vision Flexible Dual Channel Sensor Ureterorenoscope
Number of working channels		1	1	2
Sheath ø		16.2 Fr.	8.7 Fr.	9.9 Fr.
Distal tip ø		11.5 Fr. atraumatic plastic tip	6.6 Fr. atraumatic stainless steel tip	5.2 Fr. atraumatic stainless steel tip
Working/irrigation channel ø		7.5 Fr.	3.6 Fr.	3.6 Fr.
Laser channel ø		-	-	2.4 Fr.
Deflection		210° upward, 210° downward	270° upward, 270° downward	270° upward, 270° downward
Working length		400 mm	680 mm	680 mm
Viewing angle		110°	90°	90°
Lighting		two distally integrated LEDs	LED integrated to handle	LED integrated to handle
Handle		Ergonomically contoured handle with axial camera cable	Ergonomically contoured handle with axial camera cable	Ergonomically contoured handle with brake for locking the instrument tip and axial camera cable
Position of the working and irrigation channel in the image		at 3 o'clock	at 9 o'clock	at 6 o'clock
Position of the laser and irrigation channel in the image		-	-	at 9 o'clock
Endoimage		Octagon, 3 step detail enhancement and 6-fold digital zoom, automatic white balance, light control and focus	Square, 6-fold digital zoom, automatic white balance, light control and focus	Square, 6-fold digital zoom, automatic white balance, light control and focus
Compatible camera controller		ENDOCAM Logic 4K ENDOCAM Logic HD	ENDOCAM Logic 4K ENDOCAM Logic HD	ENDOCAM Logic 4K ENDOCAM Logic HD
Included accessories		Leak tester (163.903), pressure equalization valve (163.904), luer sealing cap (15023205), cleaning brush (PACK=10 pcs.) for flexible endoscopes with instrument channel (7990005)	Leak tester (163.903), pressure equalization valve (163.904), cleaning brush (PACK=10 pcs.) for flexible endoscopes with instrument channel (7990001)	Leak tester (163.903), pressure equalization valve (163.904), cleaning brush (PACK=10 pcs.) for flexible endoscopes with instrument channel (7990001), cleaning brush (PACK=10 pcs.) for flexible endoscopes with instrument channel (7990003), clamping element (PACK=20 pcs.), orange (15394144), adapter (163914)
Endoscope: Control lever down – deflection	down	73150012	73550712	73560712
	up	(incl. endoscope 7315001)	(incl. endoscope 7355071)	(incl. endoscope 7356071)
		73150062	73550762	73560762
		(incl. endoscope 7315006)	(incl. endoscope 7355076)	(incl. endoscope 7356076)

ENDOCAM Logic 4K Controller and Accessories



Ordering Information

4K Camera Controller

ENDOCAM Logic 4K Camera Controller complete

consisting of:

4K Camera Head

ENDOCAM Logic 4K Camera Head

4K Monitors

LCD Monitor 4K

32"	 LMD-X3200N
55"	 LMD-XH550N

HD Camera Heads

Pendual blue HD Camera Head

Pendual HD Camera Head

3 Chip HD Camera Head

1 Chip HD Camera Head

Objective Lenses

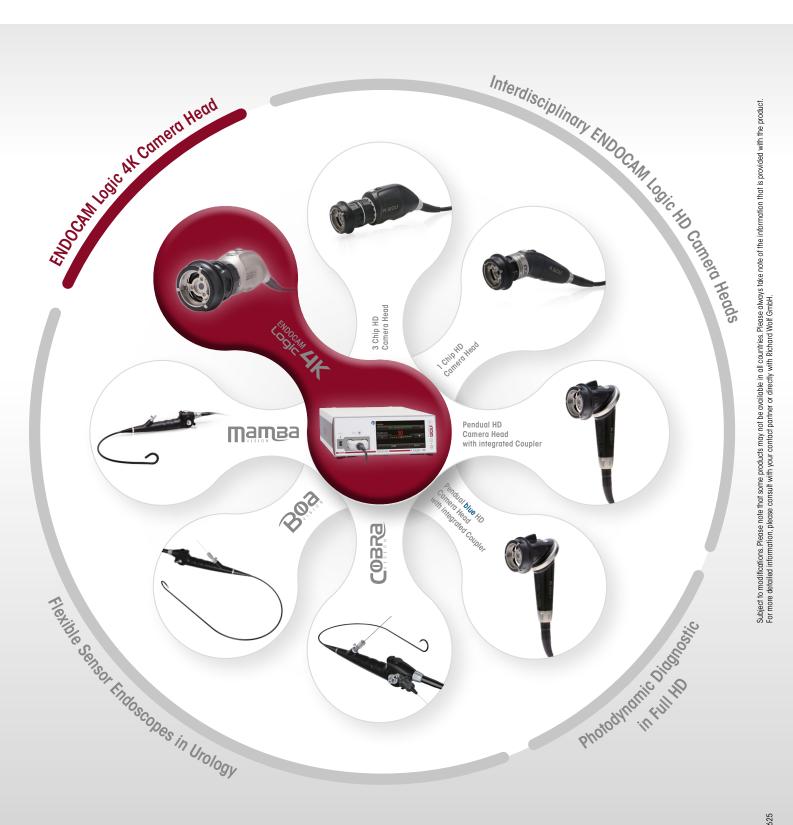
RIWO Lens, C-mount

RIWO Zoom Lens, C-mount

autoclavable, 13 - 29 mm 85261504







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Co-CEOs: Jürgen Pfab Jürgen Steinbeck Trade Register: Mannheim HRB 510031 VAT no.: DE144521586 Tax no.: 48020/00171

