

**Duomed Swiss AG** 

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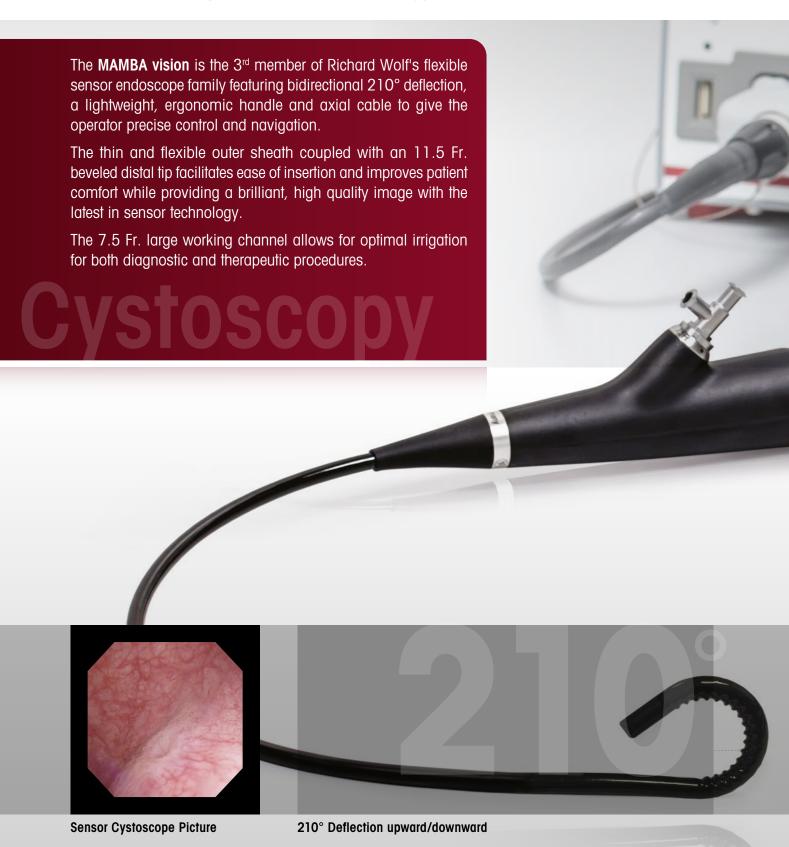


spirit of excellence



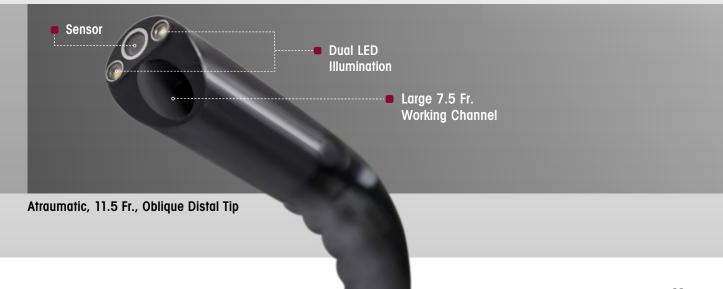


Ultimate flexibility meets sensor technology





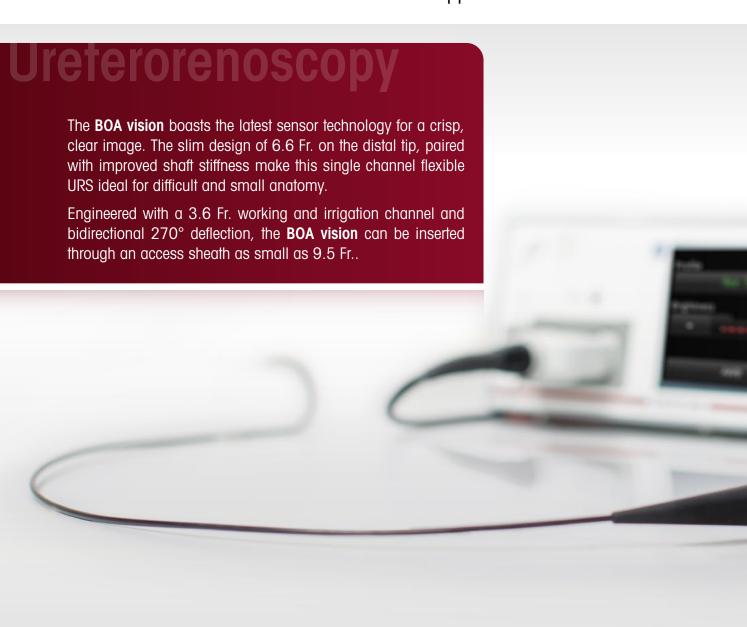






### Flexible Single Channel Sensor Ureterorenoscope

The multi-talented instrument for all-around application





**Sensor URS Picture** 



Boa vision ...



... fits through a 9.5 Fr. Access Sheath





## BOS

#### 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

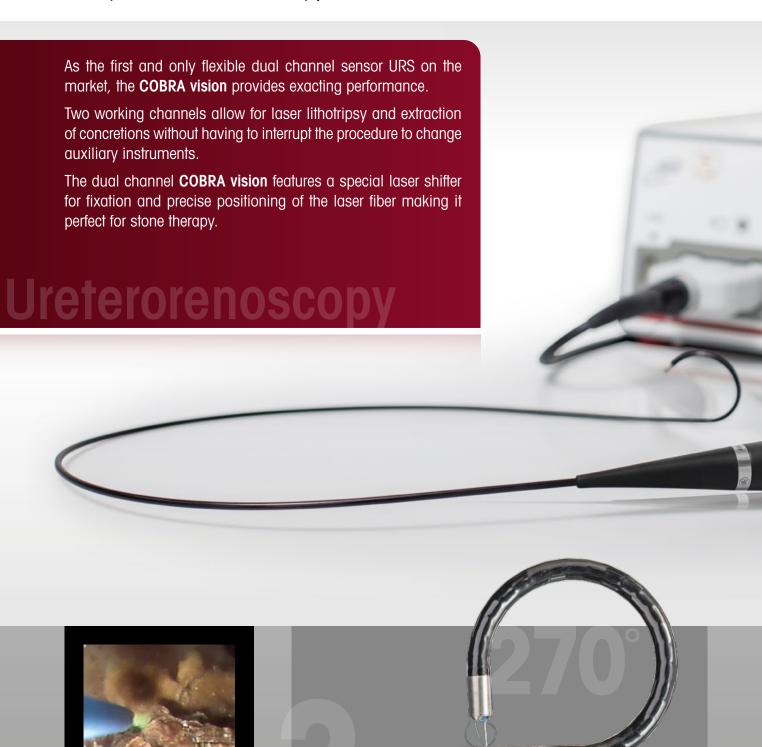


270° Deflection upward/downward



## 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

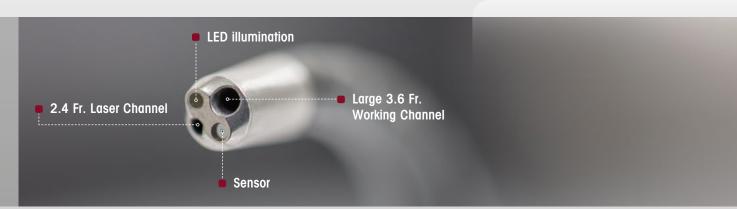






#### Flexible Dual Channel Sensor Ureterorenoscope

- 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

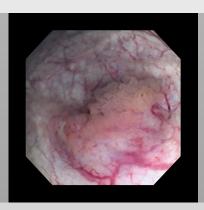
# ENDOCAM Logic 4K SIMply LOGICal

Your view into the future of endoscopic camera systems

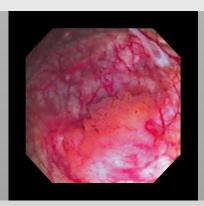


#### SIM – Special Imaging Modes: The difference is in the detail

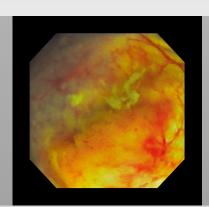
Alongside visualization of natural colors 6 digital modes are available as options. Depending on the situation, the Special Imaging Modes can improve tissue differentiation. The stored SIM can be switched on and off at the touch of a button using the camera head button.



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



**COLOR CONTRAST II**Differentiated color display, and contrast enhancement in pale images.



**COLOR CONTRAST III**Strongly differentiated color display, and contrast enhancement in pale images.



**STANDARD**Natural color display.





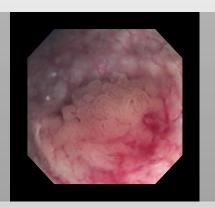
## ENDOCAM 4K

- 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

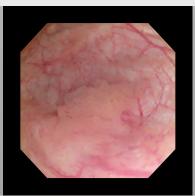




CONTRAST I
Intensified color display, and contrast enhancement in pale images.



**CONTRAST II**Subdued 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 oʻclock	at 6 o'clock
Position of the laser and irrigation channel in the image		_	_	at 9 oʻclock
Endoimage		Octagon, 3 step detail enhance- ment 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	73150012	73550712	73560712
		(incl. endoscope 7315001)	(incl. endoscope 7355071)	(incl. endoscope 7356071)
down –	up	73150062	73550762	73560762
deflection		(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**

31"	 LMD-X310NB
55"	 LMD-X550NB

#### **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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