

## Precision with Bite

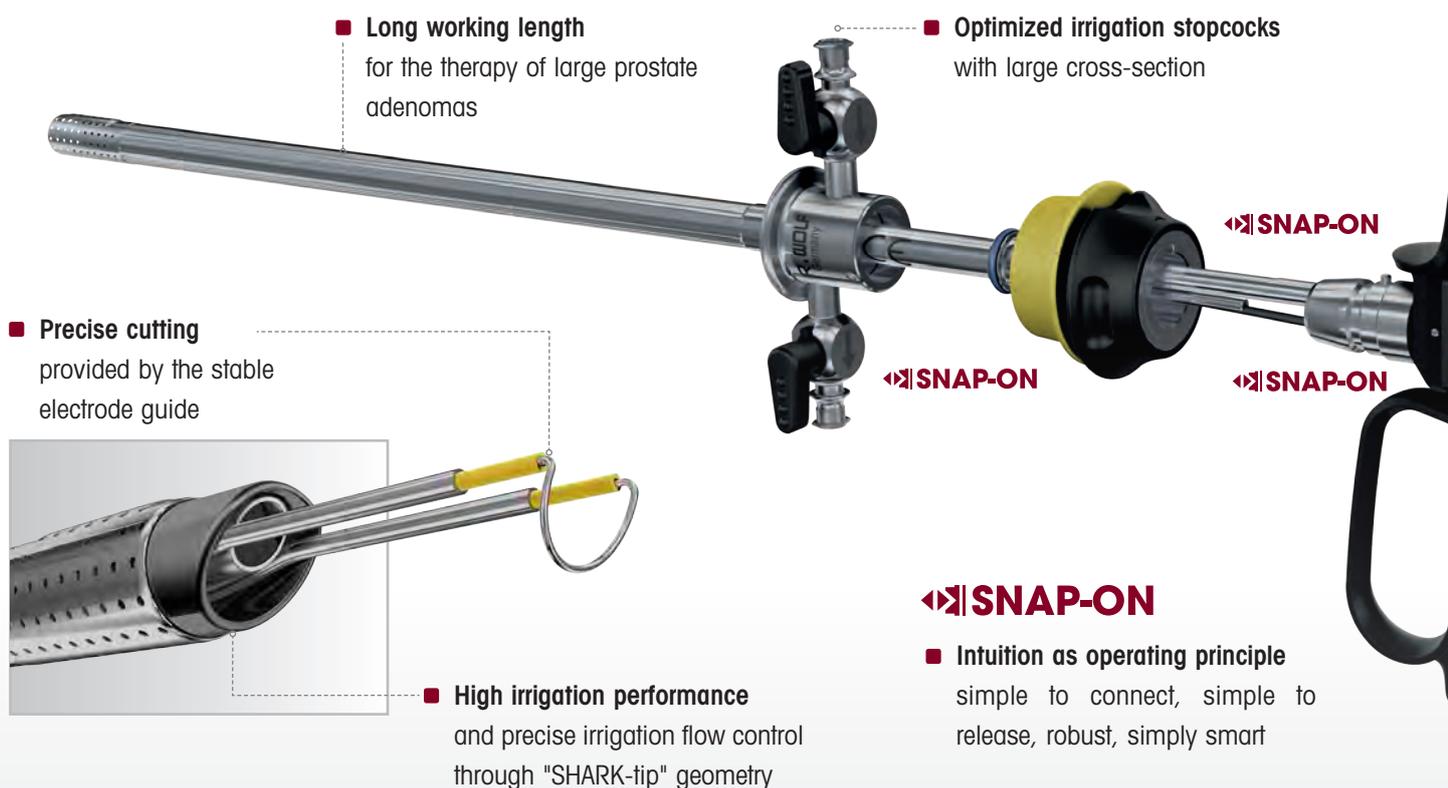


 **Shark**

The resectoscopes from Richard Wolf



Consistently efficient



## Progress at every level.

Richard Wolf resectoscopes for urology have formed a platform for the therapeutic and diagnostic interventions at the highest level for many decades.

The **SHARK Resectoscope Line**, now takes quality, control and safety to a new dimension. **SHARK** combines years of global experience and user feedback with innovative technology. The result is a high-quality system with absolutely no compromises that makes your work more efficient. You are able to connect and disconnect the system elements with one simple action. Quick connection is combined with high stability. See for yourself!

- **SHARK-fin finger support**  
for comfortable handling



- **Innovative HD Pendul camera head**  
rotates 360° and able lock in any position

- **Soft stop**  
for comfortable and fatigue-free working – particularly for longer interventions



- **Ergonomic overall design**  
Consistent ergonomically designed working elements for more efficiency and control
- **Quality in your hands**  
Stainless steel, ceramic, and biocompatible plastics guarantee maximum service life

- **Perfect shape for your work**  
This was also confirmed by the prestigious International Forum Design (iF). Our **SHARK Resectoscopes** were awarded the coveted iF Product Design Award 2013. Alongside quality of design, the assessment criteria also include finish, functionality and ergonomic styling.





Precision and ergonomic design



### Precision at the cutting edge: Newly designed sheath system



■ **"SHARK-tip"**

The oblique sheath tip at the distal end made of black ceramic permits focused irrigation and prevents reflection of light

■ **Freedom of choice**

Continuous irrigation sheaths and variety of intermittent sheaths

■ **Freedom of movement** Double sheath system with 360° rotatable inner sheath

■ **Freedom of connection**

Inner and outer sheaths connectable in any position

■ **Optimalum flow**

Optimized irrigation stopcock with large cross-section and "SHARK-tip" geometry for ideal flow characteristics

## All applications under control: Monopolar and bipolar working elements

- **Maximum diversity**  
active and passive working elements with open or closed handle design, for left-handed and right-handed users
- **Ergonomic design**  
with special "SHARK-fin" finger supports and enlarged thumb rings for comfort
- **Soft stop** for fatigue-free working
- **Torsion-resistant connector**  
for all system components
- **Twist-lock**  
for secure connection of telescope and working element.
- **Automatic snap-on electrode locking** for intuitive fixation of the electrode





New perspectives in detail



**Stability at the cutting edge:**  
Robust electrode concept

- **Monopolar and bipolar versions**

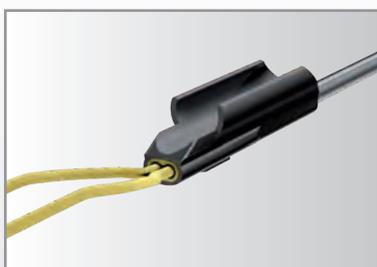
- **Enhanced stability**  
on the basis of the newly designed structure for the electrode fork

- **Precise electrode guidance**  
through working element and telescope

- **Maximum diversity**  
for every application

- **Automatic snap-on electrode locking** at the working element

- **Color coding**  
for simplified assignment of system components





Perspectives in a changing world –  
innovative PENDUAL camera head

- **Innovative PENDUAL**  
Pendulum camera head for the  
ENDOCAM Logic HD  
Can also be aligned axially,  
e.g. for rigid URS, PCNL, etc.
- **Snap-on connector** for a fast  
connection with the telescope



- **ENDOCAM Logic HD:**  
The controller features an easy to  
operate touch display and an  
on-screen display with intuitive  
and intelligent menu navigation.



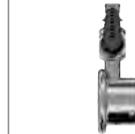
# Monopolar resectoscopes

## Sheaths for continuous irrigation

## Sheaths for intermittent irrigation

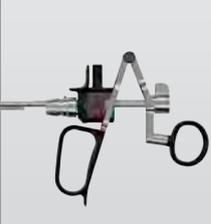
Sheath size	
<b>Ds</b>	22/24 Fr.
<b>iS</b>	24 Fr.
<b>Ds</b>	24/26 Fr.
<b>iS</b>	26 Fr.

<b>Ds</b> Double sheath system	
	
Outer sheath	Inner sheath
	
<b>8675424</b>	<b>8675322</b>
-	-
<b>8675426</b>	<b>8675324</b>
-	-

<b>iS</b> Sheath with rotatable irrigation adapter		
		
Rotatable irrigation adapter with 4 mm luer connector	Rotatable irrigation adapter with 3 mm luer connector, with stopcock	Sheath
		
-	-	-
<b>8676354</b>	<b>8676361</b>	<b>8676324</b>
-	-	-
<b>8676354</b>	<b>8676361</b>	<b>8676326</b>
<b>Two-way stopcock 883.12</b>		

## Monopolar working elements

Direction of view
0°
12°
30°

active		passive	
Closed handle	Closed handle with comfort thumb rest	Open handle	Closed handle
			
<b>8681205*</b>	-	<b>8681224*</b>	-
<b>8674205</b>	<b>8674234</b>	<b>8674224</b>	<b>8674225</b>
<b>Replacement rubber cap, red (pack of 5) ..... 8874</b>			
<b>Thumb ring with large inner diameter ..... 15008.159</b>			

**Ds** = Continuous irrigation

**iS** = intermittent irrigation

\*not suitable for 22/24 Fr. double sheath system

## Obturator

IS Sheath with central stopcock	
	
Sheath	Connecting part
	
-	-
8676424	8676342
-	-
8676426	8676343

Obturator	Viewing obturator	Dilation obturator
		
		
8673022	8673122	-
8673024	8673124	8673224
8673026	8673126	8673226

## Telescopes, Ø 4 mm

Default	PDD
	
8650.414	8650.514
8654.431	8654.531
8654.422	8654.522
Fiber light cable 2.5 mm 3.0 m Set .....806625301	



## Monopolar electrodes

12°/30°, for multiple use, monopolar

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			DS 22/24	iS 24	DS 24/26	iS 26	Fork	Stem	
	Cutting electrode	Loop ø 0.35 mm	✓	–	–	–	green	Dark gray	86782235
			–	✓	✓	–	yellow	Dark gray	86782435
			–	–	–	✓	black	Dark gray	86782635
		Loop ø 0.8 mm	–	✓	✓	–	yellow	Dark gray	86782480
	Coagulation electrode	Roller	✓	✓	✓	–	green	Dark gray	86782201
			–	–	–	✓	black	Dark gray	86782601
	Coagulation electrode	Sphere	✓	✓	✓	–	green	Dark gray	86782202
	Coagulation electrode	Button	✓	✓	✓	–	green	Dark gray	86782203
			–	–	–	✓	black	Dark gray	86782603
	Knife electrode	Knife	✓	✓	✓	–	green	Dark gray	86782204
			–	–	–	✓	black	Dark gray	86782604
	Hook electrode	Hook	✓	✓	✓	–	green	Dark gray	86782205
			–	–	–	✓	black	Dark gray	86782605
	EVAP electrode	barrel-shaped	–	✓	✓	✓	yellow	Dark gray	86782407
	EVAP electrode	Pyramid	–	✓	✓	✓	yellow	Dark gray	86782408
	EVAP electrode	Wing (loop profile flat)	✓	–	–	–	green	Dark gray	86782206
			–	✓	✓	–	yellow	Dark gray	86782406
			–	–	–	✓	black	Dark gray	86782606

✓ suitable for the relevant sheath size    – not suitable

DS = Continuous irrigation

iS = intermittent irrigation

**0°, for multiple use, monopolar**

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>Ds</b> 22/24	<b>iS</b> 24	<b>Ds</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode	Loop ø 0.35 mm	–	✓	✓	–	yellow	Dark gray	86792435
			–	–	–	✓	black	Dark gray	86792635
	Coagulation electrode	Roller	–	✓	✓	–	green	Dark gray	86792201
	Coagulation electrode	Sphere	–	✓	✓	✓	transparent	Dark gray	86792202
	EVAP electrode	barrel-shaped	–	✓	✓	✓	yellow	Dark gray	86792407
	Knife electrode	Knife	–	✓	✓	✓	transparent	Dark gray	86792204
	Hook electrode	Hook	–	✓	✓	✓	transparent	Dark gray	86792205



## Monopolar electrodes

12°/30°, for single use, sterile\*, monopolar

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>Ds</b> 22/24	<b>iS</b> 24	<b>Ds</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode (pack of 10)	Loop ø 0.35 mm	✓	–	–	–	green	transparent	46782235
			–	✓	✓	–	yellow	transparent	46782435
		–	–	–	✓	black	transparent	46782635	
		✓	–	–	–	green	transparent	46782225	
	–	✓	✓	–	yellow	transparent	46782425		
Cutting electrode (pack of 5)	Loop ø 0.8 mm	–	✓	✓	–	yellow	transparent	46782480	
		–	–	–	–	–	–	–	
	Hook electrode (pack of 5)	Hook	✓	✓	✓	–	green	transparent	46782205
			–	–	–	✓	black	transparent	46782605
	Coagulation electrode (pack of 5)	Roller	✓	✓	✓	–	green	transparent	46782201
	Coagulation electrode (pack of 5)	Sphere	✓	✓	✓	–	green	transparent	46782202
	Coagulation electrode (pack of 5)	Button	✓	✓	✓	–	green	transparent	46782203
			–	–	–	✓	black	transparent	46782603
	Knife electrode (pack of 5)	Knife	✓	✓	✓	–	green	transparent	46782204
			–	–	–	✓	black	transparent	46782604

✓ suitable for the relevant sheath size    – not suitable    \* packed single, sterile

**Ds** = Continuous irrigation    **iS** = intermittent irrigation

**0°, for single use, sterile\*, monopolar**

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>Ds</b> 22/24	<b>iS</b> 24	<b>Ds</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode (pack of 5)	Loop ø 0.35 mm	–	✓	✓	–	yellow	transparent	46792435
			–	–	–	✓	black	transparent	46792635
	Hook electrode (pack of 5)	Hook	–	✓	✓	–	transparent	transparent	46792205
	Coagulation electrode (pack of 5)	Roller	–	✓	✓	–	green	transparent	46792201
	Knife electrode (pack of 5)	Knife	–	✓	✓	–	transparent	transparent	46792204

✓ suitable for the relevant sheath size    – not suitable    \* packed single, sterile

**Ds** = Continuous irrigation    **iS** = intermittent irrigation

**HF connection cable, monopolar**

Connection of HF device	Manufacturer of HF device	Length	Type
	ERBE, ACC, ICC	3 m	815.032
		5 m	815.052
	ERBE T Series	3 m	815.132
		5 m	815.152
	Martin, Berchold, Aesculap	3 m	815.031
		5 m	815.051
	Bovie, Valleylab, Erbe Int.	3 m	815.033
		5 m	815.053
	Eschmann and other devices with a 4 mm plug	3 m	815.034
		5 m	815.054



## Bipolar resectoscopes

### Sheaths for continuous irrigation

Ds		Double sheath system	
Outer sheath		Inner sheath	
8675424		8675322	
-		-	
8675426		8675324	
-		-	

Sheath size	
Ds	22/24 Fr.
iS	24 Fr.
Ds	24/26 Fr.
iS	26 Fr.

### Sheaths for intermittent irrigation

iS			Sheath with rotatable irrigation adapter		
Rotatable irrigation adapter with 4 mm luer connector		Rotatable irrigation adapter with 3 mm luer connector with stopcock		Sheath	
-		-		-	
8676354		8676361		8676324	
-		-		-	
8676354		8676361		8676326	
Two-way stopcock 883.12					

### Bipolar working elements

active		passive	
Closed handle	Open handle	Open handle	Closed handle
8680.205	8680.204	8680.224	8680.225
Replacement rubber cap, black (pack of 5) ..... 8880			
Thumb ring with large inner diameter ..... 15008.159			

Direction of view
0°
12°
30°

Ds = Continuous irrigation

iS = intermittent irrigation

### Obturator

IS Sheath with central stopcock	
	
Sheath	Connecting part
	
-	-
8676424	8676342
-	-
8676426	8676343

Obturator	Viewing obturator	Dilation obturator
		
		
8673022	8673122	-
8673024	8673124	8673224
8673026	8673126	8673226

### Telescopes, Ø 4 mm

Default	PDD
	
8650.414	8650.514
8654.431	8654.531
8654.422	8654.522
Fiber light cable 2.5 mm 3.0 m Set .....806625301	



## Bipolar electrodes

12°/30°, for multiple use, bipolar

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>DS</b> 22/24	<b>iS</b> 24	<b>DS</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode	Loop ø 0.3 mm	✓	–	–	–	blue	yellow	8622133
			–	✓	✓	✓	blue	yellow	8622131
	Coagulation electrode	Cylinder ø 1.2 mm	✓	✓	✓	✓	blue	yellow	8623022
	Hook electrode	Hook	✓	✓	✓	✓	blue	yellow	862309

✓ suitable for the relevant sheath size    – not suitable

**DS** = Continuous irrigation

**iS** = intermittent irrigation

**0°, for multiple use, bipolar**

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>Ds</b> 22/24	<b>iS</b> 24	<b>Ds</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode	Loop ø 0.3 mm	–	✓	✓	–	blue	yellow	8609031



## Bipolar electrodes

12°/30°, for single use, sterile\*, bipolar

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>DS</b> 22/24	<b>iS</b> 24	<b>DS</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode (pack of 3)	Loop ø 0.3 mm	✓	–	–	–	blue	blue	4622.1333
			–	✓	✓	–	blue	blue	4622.1313
			–	–	–	✓	green	blue	4624.1313
		Loop ø 0.25 mm	✓	–	–	–	blue	blue	4622.2533
			–	✓	✓	✓	blue	blue	4622.2513
	Cutting electrode, oval (pack of 3)	Loop ø 0.3 mm	–	✓	✓	✓	blue	blue	4622.1323
	Coagulation electrode (pack of 3)	Cylinder ø 1.2 mm	✓	–	–	–	blue	blue	4623.0243
			–	✓	✓	✓	blue	blue	4623.0223
	BiVAP electrode (pack of 3)	Donut	✓	–	–	–	blue	blue	46300223
			–	✓	✓	✓	blue	blue	46300243

✓ suitable for the relevant sheath size    – not suitable

\* packed single, sterile

**DS** = Continuous irrigation

**iS** = intermittent irrigation

**0°, for single use, sterile\*, bipolar**

	Designation	Loop	for sheath sizes [in Fr.]				Color code		Type
			<b>DS</b> 22/24	<b>iS</b> 24	<b>DS</b> 24/26	<b>iS</b> 26	Fork	Stem	
	Cutting electrode (pack of 3)	Loop ø 0.3 mm	–	✓	✓	–	blue	blue	4609.0313
			–	–	–	✓	green	blue	4611.0313
		Loop ø 0.25 mm	–	✓	✓	–	blue	blue	4609.2513
	Cutting electrode, oval (pack of 3)	Loop ø 0.3 mm	–	✓	✓	✓	blue	blue	4609.0323
	Coagulation electrode (pack of 3)	Cylinder ø 1.2 mm	–	✓	✓	✓	blue	blue	4610.0223
	BIVAP electrode (pack of 3)	Donut	–	✓	✓	✓	blue	blue	46310243

✓ suitable for the relevant sheath size    – not suitable    \* packed single, sterile

**DS** = Continuous irrigation    **iS** = intermittent irrigation

**HF connection cable, bipolar**

Connection of HF device	Manufacturer of HF device	Length	Type
	ERBE	3 m	8108.232
		5 m	8108.252
	Martin	3 m	8108.231
		5 m	8108.251

