

# **VIDEOSCOPE TECHNOLOGY**



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# VIDEOSCOPE TECHNOLOGY

# Technical Videoscope

The application of videoscope in the technical area has grown in the course of the last years and increased in importance. Not only under the aspect of the simple and recognized investigation but can also be used as proof to suppliers, however in particularly in regard to warranty quotations and statements to service providers towards future manufacturing. Another plus for the acquisition of a videoscope lies in the partly immense saving of valuable working hours with searching for the repair.

To be able to do justice to the different demands for the devices or equipment, now there are 3 different executions within the KS Tools range for the correct choice. All the same whether you simply want to consider or review in parallel by video / photo or audio admission, we are sure that you will find a suitable device over the next pages. The operation of the devices is very user friendly and, moreover, can be communicated in the provided, simply understandable manuals.

Concerning the assigned sofeware, first of all, the probes set new graduations. So the picture is produced directly in a mini camera head of the probe end and with led lights that are adjustable in perfect quality and transfered by data cable to the handle (wireless) or to the hand device. Also the light appears directly in the probe head white, adjustable high performance LEDs grant a perfect illumination.

# Various application possibilities e.g.:

















#### Automotive

Engine, transmission, tank, car body, dashboard, expert etc.

#### Aviation

Engine, turbine, conduit systems etc.

#### Construction

Evaluation of building substance, water damage, parasite attack etc.

#### Pipeline construction

Welding seams, tracking down of foreign objects, leakages etc.

## Hydraulic systems

Cylinders leakages etc

# Heating sanitary air conditioning

Ovens, fireplaces, boiler, air conditioning, sewage systems etc.

#### Pest control etc

Hives, wasp nest, bird nest, insect infestations etc.

### Police, customs.

Contraband, stolen goods, drugs, house searches, espionage etc.















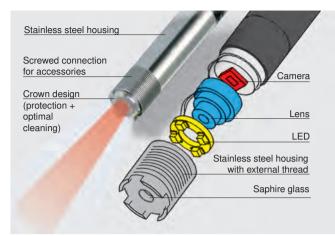
NEW ANTI-REFLECTION FUNCTION AND DUST FILTER FUNCTION ON METAL BODY AND MIRRORS

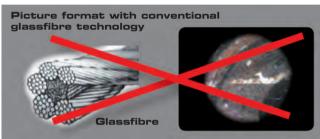
90°/180°/270°/360° IMAGE ROTATION

INCREASED IMAGE RESOLUTION -HIGH-CONSTRAST IMAGES IN LOW LIGHT ENVIRONMENTS



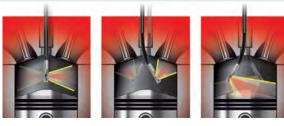
# VIDEOSCOPE TECHNOLOGY Accessories















# **MASTER** probes









#### **ULTIMATE**vision **MASTER VIDEOSCOPE SETS**

#### ULTIMATEvision MASTER Videoscope set

- · Adjustable function for the angle of vision through the one
- way sending device
   3 adjustable Mini-LED-lamps
- · Mobile and network independent system
- · Optimal handling through network or independent working
- Probes substantially stronger and less breakage, as no glass fibre cable
- Working temperature of + 0 °C to +55 °C
- Excellent picture quality and viewing through special camera in the probe head
- Optionally expandable with other probes
- Very good picture and video quality
- Picture reception in JPEG format
   Video records in MPEG4 format
- View on a TV monitor with AV cable possible
- Multilingual menu (14 languages)Versatile usage
- Incl. 4xAA batteries
- · 2-component housing protects against light impacts
- With high-quality foam protection material
- In durable plastic storage case

# Scope of delivery: • Basic unit

- AV cable
   4 GB SD card
- USB data cable Battery set 4xAA
- Selected videoscope probe

ULTIMATE vision MASTER Videoscope set with 90° front camera probe, semi-rigid spiral shaft, 6-pcs.



Ø	1 m	2 m	3 m
3,9 mm	550.7391	550.7392	550.7393

ULTIMATEvision MASTER Videoscope set with 0° + 90°



$_{\infty}$	1 m	2 m	3 m
5,5 mm	550.7591	550.7592	550.7593

**ULTIMATE** *vision* **MASTER Videoscope set with 90** ° **front** 

camera probe, semi-rigid spiral shaft, 6-pcs.

## Technical data hand held unit:

3,5" TFT LCD VGA Screen: Output format: NTSC and PAL AVI, JPG (640x480) Picture storage format: Storage medium: SD card up to a max. 32 GB

Battery: 4 x AA Operating time: ca. 4 h -20°C to +60°C Operating temperature: DE, EN, FR, ES, IT, DA, Language manual:

ZH, RU, NL, AR, JA, PL,

BG

ULTIMATEvision MASTER Videoscope set with 150°/0 camera probe, flexible PVC shaft 6-pcs.



Ø	1 m	2 m	3 m
	<del>     </del>	<del>     </del>	<del>     </del>
4.9 mm	550.7049	550.7462	550.7463



ULTIMATE vision MASTER Videoscope set with 0° front camera probe, semi-rigid spiral shaft, 6-pcs.

ULTIMATE vision MASTER Videoscope set with 150°/90 front camera probe, flexible PVC shaft 6-pcs.



O	1 m	2 m	3 m
5,5 mm	550.7055	550.7502	550.7503



Ø	1 m	2 m	3 m
6,0 mm	550.7621		

# Technical data sensor:

min. 15 mm Bend radius: Lens type: aspherical

Camera protection: designed out of sapphire glasse

camera sheath made out of stainless steel

IP 67 Protection class:

Aperture angle: horizontal 46° - vertical 34° - diagonal 56° 640 (H) x 480 (V) = 307,200 Pixel

Focused depth of field: 1 cm - 6 cm is up to 15" over cinch AV Magnification: waterproof to a max, of 1m Resistance: oil and petrol resistant probe

line of vision 70° - aperture angle 40° Mirror attachment:

> line of vision 90° - aperture angle 36° line of vision 110° - aperture angle 32° 3 dimmable white mini LED lamps

0 ~ 275 LUX / 4cm Brightness:

Light source:

consists of:					
		g			
550.7999	ULTIMATE Vision handset, no probe	340			
550.5008	4 GB SD card	11			
550.5003	AV-Cable 2 m	20			
550.5018	USB data cable	28			

KS TOOLS

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Ø	1 m	2 m	3 m
8,5 mm	550.7801	550.7802	550.7803

### **ULTIMATE**vision **MASTER CAMERA PROBE**

# **ULTIMATE**vision **Cable extension**

- •Cable diameter: 8.5 mm
- •Connection diameter: 16 mm
- Universal for all ULTIMATE vision Videoscope applicable



	L m	9	
550.7854	3.0	600	

#### ULTIMATE vision MASTER 90° front camera probe semi rigid spiral shaft

- 4 adjustable mini LED lamps
- •Bend radius max. 15 mm
- Suitable for connection to ULTIMATE vision MASTER vide-



#### Technical data probe:

Light source:

semi rigid Format: Bend radius: min. 15 mm Lens type: aspherical Camera protection:

designed out of sapphire glasse camera sheath made out of stainless steel Protection class: IP 67

Aperture angle: horizontal 46° - vertical 34° - diagonal 56° 320 (H) x 240 (V) = 76.800 Pixel Camera resolution: Focused depth of field: 1 cm - 6 cm

0°C to 75°C Operating temperature: AV Magnification: is up to 15" over cinch Resistance: waterproof to a max, of 1m oil and petrol resistant probe

4 dimmable white mini LED lamps

Brightness: 0 ~ 275 LUX / 4cm

	Head Ø mm	$\bigoplus$	L m	g	
550.7351	3.9	90°	1.0	180	
550.7352	3.9	90°	2.0	250	
550.7353	3.9	90°	3.0	320	

# ULTIMATEvision MASTER Camera probe reversible, 0°

- Contains 2 cameras and 2 independent light sources
- •Bend radius max. 15 mm Semi rigid spiral shaft
- •The tip of the probe's head is threaded for convenient attachment of different accessories (mirror / hook / magnet)
- Compatible with KS Tools ULTIMATEvision MASTER vide-



# Technical data probe:

Brightness:

semi rigid Bend radius: min. 15 mm Lens type aspherical Camera protection: designed out of sapphire glasse camera sheath made out of stainless steel horizontal 46° - vertical 34° - diagonal 56° Camera resolution: 640 (H) x 480 (V) = 307,200 Pixel Focused depth of field: AV Magnification: is up to 15" over cinch Operating temperature: +0°C to +60°C Light source: 3 dimmable white mini LED lamps

	Head Ø mm	<del></del>	L m	g
550.7491	4.9	0°/90°	1.0	105
550.7492	4.9	0°/90°	2.0	105
550.7493	4.9	0°/90°	3.0	105

0 ~ 275 LUX / 4cm

#### **ULTIMATE**vision **MASTER 0° front camera probe semi** rigid spiral shaft

- 4 adjustable mini LED lamps
- Bend radius max. 15 mm
   Suitable for connection to ULTIMATE vision MASTER vide-



#### Technical data probe: Format:

semi rigid Rend radius min. 15 mm Lens type: aspherical Camera protection: designed out of sapphire glasse

camera sheath made out of stainless steel Protection class IP 67

Aperture angle: horizontal 46° - vertical 34° - diagonal 56° Camera resolution 320 (H) x 240 (V) = 76,800 Pixel Focused depth of field: 1 cm - 6 cm

Operating temperature: 0°C to 75°C AV Magnification: is up to 15" over cinch waterproof to a max. of 1m

oil and petrol resistant probe Light source: 4 dimmable white mini LED lamps 0 ~ 275 LUX / 4cm Brightness:

	Head Ø mm	$\bigoplus$	L m	g	
550.7551	5.5	0°	1.0	140	
550.7552	5.5	0°	2.0	140	
550.7553	5.5	0°	3.0	140	

# **ULTIMATE** vision **MASTER 90° front camera probe semi**

- •4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE vision MASTER videoscope



# Technical data probe:

semi rigid Bend radius: min. 15 mm Lens type aspherical Camera protection: designed out of sapphire glasse camera sheath made out of stainless steel Protection class: IP 67 Aperture angle: horizontal 46° - vertical 34° - diagonal 56° Camera resolution: 320 (H) x 240 (V) = 76,800 Pixel Focused depth of field: 1 cm - 6 cm

Operating temperature: 0°C to 75°C AV Magnification: is up to 15" over cinch waterproof to a max. of 1m oil and petrol resistant probe Light source: 4 dimmable white mini LED lamps

Brightness: 0 ~ 275 LUX / 4cm

		Head Ø mm	4	L m	9	
550	.7571	5.5	90°	1.0	230	
550	.7572	5.5	90°	2.0	260	
550	.7573	5.5	90°	3.0	400	

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# ULTIMATE vision MASTER front camera probe 150°/0° flexible PVC shaft

- 4 adjustable mini LED lamps
- •Bend radius max. 15 mm
- Suitable for connection to ULTIMATE vision MASTER vide-



#### Technical data probe:

flexible PVC casing min. 15 mm Bend radius: Lens type: aspherical

Camera protection: designed out of sapphire glasse camera sheath made out of stainless steel

Operating temperature: +0°C to +55°C

Line of vision: revolving in 2 directions each to 150° Aperture angle: horizontal 46° - vertical 34° - diagonal 56° Camera resolution: 320 (H) x 240 (V) = 76,800 Pixel Focused depth of field: 1 cm - 6 cm

AV Magnification: is up to 15" over cinch

Light source 4 dimmable white mini LED lamps Brightness: 0 ~ 275 LUX / 4cm

	Head Ø mm	#	L m	g	
550.7601	6.0	150°/0°	1.0	140	
550.7602	6.0	150°/0°	2.0	180	
550.7603	6.0	150°/0°	3.0	220	

# ULTIMATE vision MASTER front camera probe 150°/90

- 4 adjustable mini LED lamps
- •Bend radius max. 15 mm
- Suitable for connection to ULTIMATE vision MASTER videoscope



# Technical data probe:

flexible PVC casing Bend radius: min. 15 mm aspherical Lens type: Camera protection: designed out of sapphire glasse camera sheath made out of stainless steel Operating temperature: +0°C to +55°C

Line of vision:

horizontal 46° - vertical 34° - diagonal 56° Aperture angle 320 (H) x 240 (V) = 76,800 Pixel Camera resolution Focused depth of field: 1 cm - 6 cm

AV Magnification: is up to 15" over cinch

Light source: 4 dimmable white mini LED lamps 0 ~ 275 LUX / 4cm Brightness:

	Head Ø mm	<del></del>	L m	9	
550.7606	6.0	150°/90°	1.0	140	

#### ULTIMATE vision MASTER 0° front camera probe semi rigid spiral shaft

- 6 adjustable mini LED lamps
- ·Bend radius max. 30 mm
- Suitable for connection to ULTIMATE vision MASTER Vide-



# Technical data probe:

Format:

semi rigid Rend radius min 30 mm Lens type: aspherical Camera protection: designed out of sapphire glasse camera sheath made out of stainless steel Protection class: IP 67 horizontal 46° - vertical 34° - diagonal 56° Aperture angle: Camera resolution 320 (H) x 240 (V) = 76,800 Pixel Focused depth of field: 1 cm - 6 cm +0°C to +55°C Operating temperature: AV Magnification: is up to 10" over cinch

waterproof to a max. of 1m oil and petrol resistant probe Mirror attachment: line of vision 90° - aperture angle 36° Light source: 6 dimmable white mini LED lamps

0 ~ 420 LUX / 4 cm

Brightness:

	Head Ø mm	#	L m	g
550.7851	8.5	0°	1.0	140
550.7852	8.5	0°	2.0	140
550.7853	8.5	0°	3.0	140



# **ULTIMATE**vision **MASTER** videoscope set with sensor

• Probe with dimensionally stable pushrod

Flexible probe head for optimum bend flexibility
8 dimmable white mini LED lamps

Mobile and network independent system

Abrasion resistant, spring sheathed probe head shaft.

 Excellent picture quality and viewing through special camera in the probe head

Very good picture and video quality

• 1.5 times digital zoom function • Horizontal picture reflection function

Picture reception in JPEG format
 Video records in MPEG4-format

• View on large monitor with AV cable Data transfer directly through USB cable possible

SD port for SD card

•Multi lingual menu (14 languages)

· Wide range of applications in pipes and shafts

•2 Component housing protects against light impacts
•In durable plastic storage case

#### Contents:

Sensor drum with pushrod + camera head Basic unit ULTIMATEvision MASTER 2 GB SD card



# Technical data hand held unit:

3.5" TET LCD VGA Screen: NTSC and PAI Output format: Picture storage format: AVI. JPG (640x480) SD card up to a max. 32 GB Storage medium:

Battery: 4 x AA Operating time: ca. 4 h

Operating temperature: -20°C to +60°C Language manual: DE, EN, FR, ES, IT, DA,

ZH, RU, NL, AR, JA, PL,

RG

## Technical data probe head:

Length: 24,3 mm Ø: 28,0 mm Aperture angle: diagonal 150.8°

Camera resolution: 320 (H) x 240 (V) = 76,800 Pixel

Focused depth of field: 10 ~ ∞ mm AV Magnification: is up to 15" over cinch

8 dimmable white mini LED lamps Light source:

Brightness: 33 Lux

-20°C to +60°C Operating temperature:

Camera protection: designed out of sapphire glasse

camera sheath made out of stainless steel

Bend radius: max. 30 mm

Application: 40-100mm - 90° bend flexibility above Ø50mm

## Technical data drum with pushrod:

Length: 22.0 m a. 6 mm Bend radius: min. 150 mm Operating temperature: -10°C up tp +70°C Protection class: IP 65 Drum Ø: 300 mm



550.7221 3 pcs ULTIMATE vision MASTER videoscope set with sensor drum 10.60

**STOOLS** 

#### Aluminium adaptor for videoscope

·Suitable for use with videoscopes



	Ø mm	L mm	g	
550.7229	50,0	36.0	61	

## Brush for videoscope

- •Suitable for use with videoscopes
- · For centric use of the camera





	DN	L mm	g	
550.7228	100	150.0	64	
550.7227	150	150.0	151	

# **ULTIMATE**vision **MASTER PROBE ACCESSORIES**

# ULTIMATEvision MASTER 2 in 1 Magnet sleeve + hook attachment

• Suitable for connection to ULTIMATE vision MASTER Videoscope



	Head Ø mm	9	
550.7459	4.9	20	

# ULTIMATEvision MASTER Mirror attachment

• Suitable for connection to ULTIMATEvision MASTER Videoscope







	Head Ø mm	0	g	
550.7555	5.5	70°	20	
550.7556	5.5	90°	20	
550.7557	5.5	110°	20	

#### **ULTIMATE**vision **MASTER Magnet sleeve**

Suitable for connection to ULTIMATE vision MASTER Vide-



	Head Ø mm	
550.7559	5.5	20

#### **ULTIMATE**vision **MASTER Hook attachment**

• Suitable for connection to ULTIMATEvision MASTER Videoscope



	Head Ø mm	9	
550.7558	5.5	20	

#### **ULTIMATE**vision **MASTER Mirror attachment**

• Suitable for connection to ULTIMATE vision MASTER Vide-



		Head Ø mm	0	g	
55	0.7857	8.5	70°-110°	20	

# **ULTIMATE** *vision* **MASTER Magnet sleeve**

Suitable for connection to ULTIMATE vision MASTER Vide-



	Head Ø mm	9
550.7859	8.5	20

# **ULTIMATE**vision MASTER Hook attachment

• Suitable for connection to ULTIMATE vision MASTER Vide-



	Head Ø mm	g	
550.7858	8.5	20	



#### **ULTIMATE** *vision* **SUPERCHARGED VIDEOSCOPE SETS**

## ULTIMATEvision SUPERCHARGED Videoscope set

- · Adjustable function for the angle of vision through the one way sending device
  • 3 adjustable Mini-LED-lamps

- Mobile and network independent system
   Optimal handling through network or independent working
- Probes substantially stronger and less breakage, as no glass fibre cable
- Working temperature of + 0 °C to +55 °C
- Excellent picture quality and viewing through special camera in the probe head
- Optionally expandable with other probes
- Very good picture and video quality
- Picture reception in JPEG format
- Video records in MPEG4-format
- View on a TV monitor with AV cable possible
- Multilingual menu (14 languages)Versatile usage
- Incl. 4xAA batteries
- 2-component housing of the basic unit protects against light impacts with high-quality foam insert
- In durable plastic storage case

# Scope of delivery: Basic unit

- Mirror attachment
   AV cable
- 4 GB SD card
- · USB data cable
- Battery set 4xAA
- · Selected videoscope probe



### Technical data hand held unit:

3,5" TFT LCD VGA Output format: NTSC and PAL AVI, JPG (640x480) Picture storage format: Storage medium: SD card up to a max. 32 GB Battery: 4 x AA

Operating time: ca. 4 h Operating temperature: -20°C to +60°C DE, EN, FR, ES, IT, DA, Language manual: ZH, RU, NL, AR, JA, PL,

#### Technical data sensor: min. 15 mm Bend radius:

Lens type: aspherical designed out of sapphire glasse Camera protection: camera sheath made out of stainless steel

Protection class: IP 67

Aperture angle: horizontal 46° - vertical 34° - diagonal 56° Camera resolution 640 (H) x 480 (V) = 307,200 Pixel

Focused depth of field: 1 cm - 6 cm AV Magnification: is up to 15" over cinch Resistance: waterproof to a max. of 1m oil and petrol resistant probe

line of vision 70° - aperture angle 40° line of vision 90° - aperture angle 36°

line of vision 110° - aperture angle 32° 3 dimmable white mini LED lamps

0 ~ 275 LUX / 4cm Brightness:

#### consists of:

Light source:

Mirror attachment:

		9	
550.7999	ULTIMATE Vision handset, no probe	340	
550.5008	4 GB SD card	11	
550.5003	AV-Cable 2 m	20	
550.5018	USB data cable	28	

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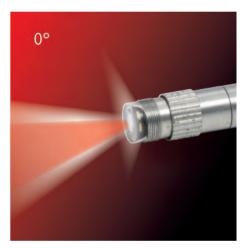


ULTIMATE vision SUPERCHARGED Videoscope set with 0  $^\circ$  front camera probe, flexible spiral shaft, 7-pcs.



# 

Ø	1 m	2 m	3 m
5,5 mm	550.8002	550.8055	



ULTIMATEvision SUPERCHARGED Videoscope set with 0 ont camera probe, flexible PVC-shaft, 7 pcs.





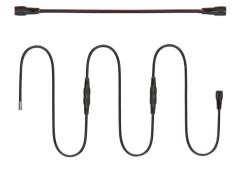
# SIMMANA.

Ø	1 m	2 m	3 m
6,0 mm	550.8061	550.8062	

#### **ULTIMATE**vision **SUPERCHARGED CAMERA PROBE**

#### ULTIMATEvision Cable extension

- ·Cable diameter: 8.5 mm
- Connection diameter: 16 mm
   Universal for all ULTIMATE vision Videoscope applicable





	L m	g	
550.7854	3.0	600	

# ULTIMATEvision SUPERCHARGED 0° front camera probe flexible spiral shaft

- •4 adjustable mini LED lamps
- Bend radius max. 15 mm
- Suitable for connection to ULTIMATE vision SUPERCHARGER videoscope



# 

## Technical data probe:

flexible PVC casing Format: Bend radius: min. 15 mm Lens type: aspherical Camera protection: designed out of sapphire glasse

camera sheath made out of stainless steel Protection class: IP 67 Aperture angle: horizontal 46° - vertical 34° - diagonal 56°

320 (H) x 240 (V) = 76,800 Pixel Focused depth of field: 1 cm - 6 cm Operating temperature: 0°C to 75°C AV Magnification: is up to 15" over cinch

waterproof to a max. of 1m oil and petrol resistant probe Light source: 4 dimmable white mini LED lamps

0 ~ 275 LUX / 4cm Brightness:

Head Ø 4 L m g 550.8551 5.5 0° 1.0 140 550.8552 140 5.5 0° 2.0

# ULTIMATE vision SUPERCHARGED 0° front camera probe

- 4 adjustable mini LED lamps
- •Bend radius max. 15 mm
- Suitable for connection to ULTIMATE vision SUPERCHARGER videoscope



# 

## Technical data probe:

flexible PVC casing Format: Bend radius: min 15 mm Lens type: aspherical

Camera protection: designed out of sapphire glasse camera sheath made out of stainless steel Protection class: IP 67

Aperture angle: horizontal 46° - vertical 34° - diagonal 56° Camera resolution: 320 (H) x 240 (V) = 76,800 Pixel

Focused depth of field: 1 cm - 6 cm Operating temperature: 0°C to 75°C AV Magnification: is up to 15" over cinch Resistance: waterproof to a max. of 1m oil and petrol resistant probe Mirror attachment: line of vision 70  $^{\circ}$  - aperture angle 40  $^{\circ}$ 

line of vision 90  $^{\circ}$  - aperture angle 36  $^{\circ}$ line of vision 110° - aperture angle 32°

	Head Ø mm	+	L m	g	
550.8601	6.0	150°	1.0	140	
550.8602	6.0	150°	2.0	140	

# ULTIMATE vision SUPERCHARGED PROBE ACCESSORIES

## **ULTIMATE**vision **SUPERCHARGED Mirror attachment**

• Suitable for connection to ULTIMATE vision SUPERCHARGED videoscope



# 

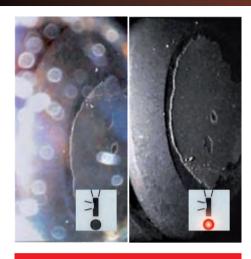
	Head Ø mm	<u> </u>	g	
550.8555	5.5	70°	20	
550.8556	5.5	90°	20	
550.8557	5.5	110°	20	

#### **ULTIMATE**vision **SUPERCHARGED** Hook attachment

• Suitable for connection to ULTIMATE vision SUPERCHARGED Videoscope



	Head Ø mm	g	
550.8558	5.5	20	
550.8558	5.5	20	



# ULTIMATE vision SUPERCHARGED Mirror attachment

• Suitable for connection to ULTIMATE vision SUPERCHARGED







# 

	Head Ø mm	0	9	
550.8605	6.0	70°	20	
550.8606	6.0	90°	20	
550.8607	6.0	110°	20	

# GENERAL ACCESSORIES

- •Suitable for all ULTIMATE vision Videoscopes
- Does not transmit sound
   Available plugs: AV jack on video cinch



	L m	g	
550.5003	1.0	20	

## 4 GB SD card

• Suitable for all ULTIMATE vision Videoscopes



		g	
550.5008	4 GB SD card	11	

# **USB-Data cable**

Suitable for all ULTIMATE vision Videoscopes



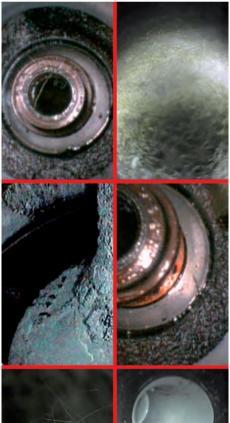
		9	
550.5018	USB-Data cable	28	

## Alcohol cleaning set

•Suitable for all ULTIMATEvision Videoscopes



		g	
550.7998	Alcohol cleaning set	60	









## Technical data:

Main memory:
Operating system:
Hard disc capacity
USB port:

256 MB Windows 2000, XP, 7, Vista 32 bit 50 MB (free) USB 2.0

		g	
550.8603	USB video grabber	135	

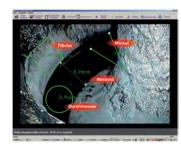
# ULTIMATE vision PREMIUM wireless measurement software

- Only usable in association with ULTIMATEvision MASTER videoscope with 0° 5,5 mm probe
  Ideal for bonding in technical documentation
  Only now with this software it is possible to correctly estimate,
- measure and interpret damages
   Measuring of angles
   Measuring of gaps

- Measurement of radiusCalculation of arreas
- Saving of the arranged photosJPEG data format
- Contains distance blade in the delivery







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550.5015 UL	LTIMATEvision PREMIUMwireless measure- ment software	300	

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