



# TECHNO VIDEOSCOPE Camera Control Unit

The Customized Solution for VIDEOSCOPIES  
– color systems PAL, NTSC –

#### Special features:

- **Waterproof**
- **Manual white balance**
- **For connection to LCD flat screen 80404**

#### Specifications:

Temperature range: 0°C – +40°C  
 Video connections: FBAS signal to BNC socket  
 Y/C signal to S-VHS socket

Accessories  
 for connections: ACC 1: 3.5 mm stereo jack plug 3-pin  
 ACC 2: 3.5 mm stereo jack plug 3-pin

Video output: Cinch socket  
 Voltage output  
 for external units: 4-Pin Mini-DIN socket  
 Certified to: IEC 601-1, CE



**81 2810 01 TECHNO VIDEOSCOPE Camera Control Unit (CCU), color system PAL,**  
 power supply: world power supply, 85 – 264 V~, 47 – 440 Hz

#### consisting of:

**81 2810 20 TECHNO VIDEOSCOPE CCU\* (PAL)**  
 400 A **Mains Cord**, length 400 cm  
 536 MK **BNC Connecting Cable**, length 180 cm  
 547 S **S-VHS (Y/C) Connecting Cable**, length 180 cm

**81 2811 01 TECHNO VIDEOSCOPE Camera Control Unit (CCU), color system NTSC,**  
 power supply: world power supply, 85 – 264 V~, 47 – 440 Hz

#### consisting of:

**81 2811 20 TECHNO VIDEOSCOPE CCU\* (PAL)**  
 400 B **Mains Cord**, US standard, length 400 cm  
 536 MK **BNC Connecting Cable**, length 180 cm  
 547 S **S-VHS (Y/C) Connecting Cable**, length 180 cm

#### Accessories:

1394990 **Adaptor**, Schuko/US standard  
 447 SL **S-VHS (Y/C) Connecting Cable**, length 350 cm

\*CCU = Camera Control Unit

# TECHNO VIDEOSCOPE diameter 3.8 mm <sup>NEW</sup>

## – The Digital Solution –

### Special features:

- Ergonomically designed handle with 3 function keys, integrated light transmission and video plug
- 40 mm bending radius
- Full screen image on the display
- 2-way articulation 180°/90°
- Compatible with all KARL STORZ techno *line*™ products
- Smooth metal outer coating

### Specifications:

Color systems:	<b>PAL and NTSC</b>
Image sensor:	1/10" Chip
Picture elements:	500 (H) x 582 (V) PAL 510 (H) x 492 (V) NTSC
Resolution:	> 350 lines (horizontal)
Exposure:	automatic or manual setting
Function keys:	white balance (rim or center measurement), manual shutter setting, still image function, menu control in conjunction with KARL STORZ TECHNO PACK™ possible
Integration cable:	T-connector, integration cable 2.3 m, video cable 0.7 m
Articulation:	2-way articulation up/down: 180°/90°
Direction of view:	0° standard, further directions of view in conjunction with interchangeable lenses
Field of view:	80° standard
Interchangeable lens:	bayonet connection for connecting diverse interchangeable lenses
Outer diameter:	distal end 3.9 mm, sheath 3.8 mm
Length of rigid tip:	24 mm (0.94 inch)
Working length:	1000 and 2000 mm (39.4 inch and 78.8 inch)
Minimal bending radius:	sheath: 40 mm (1.57 inch) lens: 10 mm (0.39 inch)
Temperature range:	sheath in air: -10°C – +80°C sheath in water: +10°C – +30°C
Resistance to:	sheath resistant to petrol, oil and machine oil; resistant in 5% saline solution; watertight up to 1 bar distribution pressure
Power supply (CCU*):	world power supply, 85-264 V~, 47-440 Hz
Video connectors (CCU*):	FBAS signal to BNC socket Y/C signal to 4-Pin Mini-DIN S-VHS socket
Accessories for connectors (CCU*):	ACC 1: 3.5 mm stereo jack plug 3-pin ACC 2: 3.5 mm stereo jack plug 3-pin
Weight:	Camera Control Unit: 1.1 kg (2.42 lbs.) Videoscope, length 1000 mm: 1.0 kg (2.2 lbs.) Videoscope, length 2000 mm: 1.2 kg (2.65 lbs.)
Certified to:	CE

\*CCU = Camera Control Unit

**VIDEOSCOPE diameter 3.8 mm** *NEW*  
**– The Digital Solution –**



Enlarged view

**81281001-401 VIDEOSCOPE Set 1000 mm (PAL)**

**consisting of:**

- V04010 AH **Videoscope (PAL)**, 1000 x diameter 3.8 mm
- V0400W AH **Protective Cap**, for videoscope diameter 3.8 mm
- V0403W DH **Interchangeable Lens 90°**
- V0400 A **Tool** for interchangeable lens diameter 3.8 mm
- 80135 **System Case**

**81281101-401 Same**, color system NTSC

**81281001-402 VIDEOSCOPE Set 2000 mm (PAL)**

**consisting of:**

- V04020 AH **Videoscope (PAL)**, 2000 x diameter 3.8 mm
- V0400W AH **Protective Cap** for videoscope diameter 3.8 mm
- V0403W DH **Interchangeable Lens 90°**
- V0400 A **Tool** for interchangeable lens diameter 3.8 mm
- 80135 **System Case**

**81281101-402 Same**, color system NTSC

**A Camera Control Unit is necessary to operate the VIDEOSCOPE:**  
**TECHNO PACK™, Mobile Documentation Unit** see chapter DOCUMENTATION  
**TECHNO VIDEOSCOPE Camera Control Unit**, see page 37  
**Further interchangeable lenses** see page 47

# VIDEOSCOPE diameter 5 mm

## – The Digital Solution –

### Special features:

- Ergonomically designed handle with 3 function keys, integrated light transmission and video plug
- 40 mm bending radius
- Full screen image on the display
- 4-way articulation up to 150°
- Compatible with all KARL STORZ techno *line*™ products
- Smooth metal outer coating

### Specifications:

Color systems:	<b>PAL and NTSC</b>
Image sensor:	1/10" Chip
Picture elements:	500 (H) x 582 (V) PAL 510 (H) x 492 (V) NTSC
Resolution:	> 350 lines (horizontal)
Exposure:	automatic or manual setting
Function keys:	white balance (rim or center measurement), manual shutter setting, still image function, menu control in conjunction with KARL STORZ TECHNO PACK™ possible
Integration cable:	T-connector, integration cable 2.3 m, video cable 0.7 m
Articulation:	4-way articulation right/left 120°/120° up/down: 150°/150°
Direction of view:	0° standard, further directions of view in conjunction with interchangeable lenses
Field of view:	50° standard, further directions of view in conjunction with interchangeable lenses
Interchangeable lens:	bayonet connection for connecting diverse interchangeable lenses
Outer diameter:	distal end 4.9 mm, sheath 5.1 mm
Length of rigid tip:	20 mm (0.788 inch)
Working lengths:	2000, 3000 and 4500 mm (78.8 inch, 118.2 inch and 177.3 inch)
Minimal bending radius:	sheath: 40 mm (1.57 inch) lens: 15 mm (0.39 inch)
Temperature range:	sheath in air: -10°C – +80°C sheath in water: +10°C – +30°C
Resistance:	sheath resistant to petrol, oil and machine oil; resistant in 5% saline solution; watertight up to 1 bar distribution pressure
Power supply (CCU*):	world power supply, 85-264 V~, 47-440 Hz
Video connectors (CCU*):	FBAS signal to BNC socket Y/C signal to 4-Pin Mini-DIN S-VHS socket
Accessories for connectors (CCU*):	ACC 1: 3.5 mm stereo jack plug 3-pin ACC 2: 3.5 mm stereo jack plug 3-pin
Weight:	Camera Control Unit: 1.1 kg (2.42 lbs.) Videoscope, length 2000 mm: 1.2 kg (2.65 lbs.) Videoscope, length 3000 mm: 1.3 kg (2.86 lbs.) Videoscope, length 4500 mm: 1.55 kg (3.42 lbs.)
Certified to:	CE

\*CCU = Camera Control Unit

# VIDEOSCOPE diameter 5 mm – The Digital Solution –



**81281001-502 VIDEOSCOPE Set 2000 mm (PAL)**

**consisting of:**

- V05020 AE **Videoscope (PAL)**, 2000 x diameter 5 mm
- V0525W AE **Interchangeable Lens 0°**
- V0500 A **Tool for interchangeable lens diameter 5 mm**
- 80135 **System Case**

**81281101-502 Same**, color system NTSC

**81281001-503 VIDEOSCOPE Set 3000 mm (PAL)**

**consisting of:**

- V05030 AE **Videoscope (PAL)**, 3000 x diameter 5 mm
- V0525W AE **Interchangeable Lens 0°**
- V0500 A **Tool for interchangeable lens diameter 5 mm**
- 80135 **System Case**

**81281101-503 Same**, color system NTSC

**81281001-504 VIDEOSCOPE Set 4500 mm (PAL)**

**consisting of:**

- V05040 AE **Videoscope (PAL)**, 4500 x diameter 5 mm
- V0525W AE **Interchangeable Lens 0°**
- V0500 A **Tool for interchangeable lens diameter 5 mm**
- 80135 **System Case**

**81281101-504 Same**, color system NTSC

**A Camera Control Unit is necessary to operate the VIDEOSCOPE:**  
**TECHNO PACK™**, Mobile Documentation Unit see chapter DOCUMENTATION  
**TECHNO VIDEOSCOPE Camera Control Unit**, see page 37  
Further interchangeable lenses see page 47

# VIDEOSCOPE Packs diameter 5 mm KARL STORZ “ALL INCLUSIVE” Packs

**Including:**

- VIDEOSCOPE diameter 5 mm
- Portable 6.4” LCD flat screen
- Interchangeable lenses 0° and 90°
- System Case



**81281005-502 VIDEOSCOPE Pack 2000 mm (PAL)**

**consisting of:**

- |           |   |
|-----------|---|
| V05020 AE | <b>Videoscope (PAL), 2000 x diameter 5 mm</b>         |
| V0525W AE | <b>Interchangeable Lens 0°</b>                        |
| V0525W DE | <b>Interchangeable Lens 90°</b>                       |
| 80404 LCD | <b>LCD Flat Screen Display 6.4”</b>                   |
| 80404 K2  | <b>LCD Flat Screen Connecting Cable, length 2.4 m</b> |
| 80404 C   | <b>Cable Clips</b>                                    |
| V0500 A   | <b>Tool, for interchangeable lens, diameter 5 mm</b>  |
| 80135     | <b>System Case</b>                                    |

**81281101-502 Same, color system NTSC**

**81281005-503 VIDEOSCOPE Pack 3000 mm (PAL)**

**consisting of:**

- |           |   |
|-----------|---|
| V05030 AE | <b>Videoscope (PAL), 3000 x diameter 5 mm</b>         |
| V0525W AE | <b>Interchangeable Lens 0°</b>                        |
| V0525W DE | <b>Interchangeable Lens 90°</b>                       |
| 80404 LCD | <b>LCD Flat Screen Display 6.4”</b>                   |
| 80404 K2  | <b>LCD Flat Screen Connecting Cable, length 2.4 m</b> |
| 80404 C   | <b>Cable Clips</b>                                    |
| V0500 A   | <b>Tool, for interchangeable lens, diameter 5 mm</b>  |
| 80135     | <b>System Case</b>                                    |

**81281105-503 Same, color system NTSC**

**81281005-504 VIDEOSCOPE Pack 4500 mm (PAL)**

**consisting of:**

- |           |   |
|-----------|---|
| V05040 AE | <b>Videoscope (PAL), 4500 x diameter 5 mm</b>         |
| V0525W AE | <b>Interchangeable Lens 0°</b>                        |
| V0525W DE | <b>Interchangeable Lens 90°</b>                       |
| 80404 LCD | <b>LCD Flat Screen Display 6.4”</b>                   |
| 80404 K2  | <b>LCD Flat Screen Connecting Cable, length 2.4 m</b> |
| 80404 C   | <b>Cable Clips</b>                                    |
| V0500 A   | <b>Tool, for interchangeable lens, diameter 5 mm</b>  |
| 80135     | <b>System Case</b>                                    |

**81281105-504 Same, color system NTSC**

**Please note:**

80404 K2 Connecting Cable only in conjunction with TECHNO PACK™ and TECHNO VIDEOSCOPE CCU  
80404 K2A Connecting Cable only in conjunction with TECHNO PACK™ II

# VIDEOSCOPE diameter 5 mm <sup>NEW</sup> – The Digital Solution –

with 2-point LASER reference measurement system,  
only in conjunction with TECHNO PACK™ II

A 2-point LASER reference measurement system is incorporated in a 5 mm videoscope. All specifications are based on 5 mm videoscopes. Calibration of the measurement system can be performed in TECHNO PACK™ II using a reproduction scale containing 2 laser points projected onto the measuring surface. Precise reference measurement is possible.



81281006-502 **VIDEOSCOPE Set 2000 mm (PAL)**, with 2-point LASER reference measurement system

**consisting of:**

- V05020 AEM **Videoscope (PAL)**, 2000 x diameter 5 mm
- V0507W AEM **Interchangeable Lens 0°**
- V0500 A **Tool** for interchangeable lens diameter 5 mm
- 80135 **System Case**

81281106-502 **VIDEOSCOPE Set 2000 mm (NTSC)**, with 2-point LASER reference measurement system

**consisting of:**

- V05021 AEM **Videoscope (NTSC)**, 2000 x diameter 5 mm
- V0507W AEM **Interchangeable Lens 0°**
- V0500 A **Tool** for interchangeable lens diameter 5 mm
- 80135 **System Case**

**Accessories:**

- V0507W DEM **Interchangeable Lens 90°**,  
direction of view 90°,  
field of view 70°,  
depth of view 7 – 100 mm

**Please note:** Other lengths (3 and 4 m) available on request  
**Further Interchangeable Lenses without 2-point LRM** see page 47  
**TECHNO PACK™ II, Mobile Documentation Unit** see chapter TECHNO PACK



# VIDEOSCOPE diameter 8 mm – The Digital Solution –

## Special features:

- Ergonomically designed handle with 3 function keys, integrated light transmission and video plug
- 40 mm bending radius
- Full screen image on the display
- 4-way articulation up to 180°
- Compatible with all KARL STORZ techno *line*™ products
- Smooth metal outer coating

## Specifications:

Color systems:	<b>PAL and NTSC</b>
Image sensor:	1/6" Chip
Picture elements:	795 (H) x 576 (V) PAL 811 (H) x 508 (V) NTSC
Resolution:	> 450 lines (horizontal)
Exposure:	automatic or manual setting
Function keys:	white balance (rim or center measurement), manual shutter setting, still image function, menu control in conjunction with KARL STORZ TECHNO PACK™ possible
Integration cable:	T-connector, integration cable 2.3 m, video cable 0.7 m
Articulation:	4-way articulation right/left      90°/90° up/down:      120°/180° (as of 7500 mm 90°/90°)
Direction of view:	0°
Field of view:	70°
Interchangeable lens with safety thread	
Direction of view:	90°
Field of view:	70°
Working lengths:	2000, 3000, 4500 and 7500 mm (78.8 inch, 118.2 inch, 177.3 inch and 295.5 inch)
Outer diameter:	of the sheath 8.1 of the distal end 8.0
Minimal	
bending radius:	sheath: 40 mm (1.57 inch) lens: 15 mm (0.39 inch)
Temperature range:	sheath in air: -10°C – +80°C sheath in water: +10°C – +30°C
Resistance:	sheath resistant to petrol, oil and machine oil; resistant in 5% saline solution; watertight up to 1 bar distribution pressure
Video connectors	
(CCU*):	FBAS signal to 4-pin socket Y/C signal to 4-Pin Mini-DIN S-VHS socket
Power supply	
(CCU*):	world power supply, 85 – 264 V~, 47 – 440 Hz
Accessories for connectors	
(CCU*):	ACC 1: 3.5 mm stereo jack plug 3-pin ACC 2: 3.5 mm stereo jack plug 3-pin
Weight:	Camera Control Unit:            1.1 kg (2.42 lbs.) Videoscope, length 2000 mm: 1.2 kg (2.65 lbs.) Videoscope, length 3000 mm: 1.3 kg (2.86 lbs.) Videoscope, length 4500 mm: 2.4 kg (5.29 lbs.) Videoscope, length 7500 mm: 3.4 kg (7.49 lbs.)
Certified to:	CE

\*CCU = Camera Control Unit

# VIDEOSCOPE diameter 8 mm – The Digital Solution –



**81281001-802 VIDEOSCOPE Set 2000 mm (PAL)**

**consisting of:**

- V08020 AG **Videoscope (PAL),**  
2000 x diameter 8 mm
- V0800W DG **Interchangeable Lens 90°**
- 80135 **System Case**

**81281101-802 Same, color system NTSC**

**81281001-803 VIDEOSCOPE Set 3000 mm (PAL)**

**consisting of:**

- V08020 AG **Videoscope (PAL),**  
3000 x diameter 8 mm
- V0800W DG **Interchangeable Lens 90°**
- 80135 **System Case**

**81281101-803 Same, color system NTSC**

**81281001-804 VIDEOSCOPE Set 4500 mm (PAL)**

**consisting of:**

- V08040 AG **Videoscope (PAL),**  
4500 x diameter 8 mm
- V0800W DG **Interchangeable**  
**Lens 90°**
- 80135 **System Case**

**81281101-804 Same, color system NTSC**

**81281001-807 VIDEOSCOPE Set 7500 mm (PAL)**

**consisting of:**

- V08070 AG1 **Videoscope (PAL),**  
7500 x diameter 8 mm
- V0800W DG **Interchangeable**  
**Lens 90°**
- 80135 **System Case**

**81281101-807 Same, color system NTSC**

**Accessories:**

- V0800W DG **Interchangeable Lens 90°**  
direction of view 90°  
field of view 70°  
depth of view 15 up to 200 mm

**A Camera Control Unit is necessary to operate the VIDEOSCOPE:**  
**TECHNO PACK™, Mobile Documentation Unit** see chapter DOCUMENTATION  
**TECHNO VIDEOSCOPE Camera Control Unit** see page 37

# VIDEOSCOPE diameter 8 mm <sup>NEW</sup> – The Digital Solution –

with 2-point LASER reference measurement system,  
only in conjunction with TECHNO PACK™ II

**STORZ**  
KARL STORZ – ENDOSKOPE  
INDUSTRIAL GROUP

2-point LASER reference measurement system incorporated in a 8 mm videoscope. All specifications taken from 8 mm videoscope. Calibration of the measurement system can be performed in TECHNO PACK™ II using a reproduction scale containing 2 laser points projected onto the measuring surface. Precise reference measurement is possible.



2 LASER points  
in the image

**81281006-802 VIDEOSCOPE Set 2000 mm (PAL)**  
with 2-point LASER reference measurement system  
**consisting of:**

- V08020 AGM **Videoscope (PAL),**  
2000 x diameter 8 mm
- V0807W AGM **Interchangeable Lens 0°**
- 80135 **System Case**

**81281106-802 VIDEOSCOPE Set 2000 mm (NTSC),**  
with 2-point LASER reference measurement system  
**consisting of:**

- V08021 AGM **Videoscope (NTSC),**  
2000 x diameter 8 mm
- V0807W AGM **Interchangeable Lens 0°**
- 80135 **System Case**

**Accessories:**

- V0807W DGM **Interchangeable Lens 90°,**  
direction of view 90°,  
field of view 70°,  
depth of view 7 to 100 mm

**Please note:** Other lengths (3 and 4 m) available on request  
**Further interchangeable lenses without 2-point LRM** see page 47  
**TECHNO PACK™ II, Mobile Documentation Unit** see chapter DOCUMENTATION



# Accessories

## VIDEOSCOPE diameter 8/5/3.8 mm

Interchangeable Lenses

### Special features:

- Interchangeable lens with direction of view 0° straight-forward and 90° lateral
- Field of view ranging from 30° to 100°
- Bayonet connection
- Depth of field from 1 mm to infinity



### For Videoscope 5 mm:

- V0525W AE **Interchangeable Lens 0°**,  
direction of view 0°,  
field of view 50°,  
depth of view 25 up to 200 mm
- V0515W AJ **Interchangeable Lens 0°**,  
direction of view 0°,  
field of view 100°,  
depth of view 15 mm to infinity
- V0501W AJ **Interchangeable Lens 0°**,  
direction of view 0°,  
field of view 100°,  
depth of view 1 to 15 mm
- V0520W AC **Interchangeable Lens 0°**,  
direction of view 0°,  
field of view 30°,  
depth of view 20 up to 200 mm

- V0525W DE **Interchangeable Lens 90°**,  
direction of view 90°,  
field of view 50°,  
depth of view 25 up to 200 mm
- V0515W DJ **Interchangeable Lens 90°**,  
direction of view 90°,  
field of view 100°,  
depth of view 15 to infinity
- V0501W DJ **Interchangeable Lens 90°**,  
direction of view 90°,  
field of view 100°,  
depth of view 1 to 15 mm
- V0520W DC **Interchangeable Lens 90°**,  
direction of view 90°,  
field of view 30°,  
depth of view 20 up to 200 mm

### For Videoscope 3.8 mm:

- V0403W DH **Interchangeable Lens 90°**,  
direction of view 90°,  
field of view 80°,  
depth of view 3 up to 20 mm

### For Videoscope 8 mm:

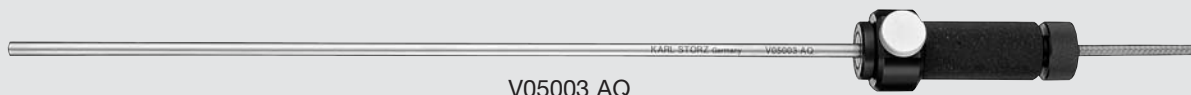
- V0800W DG **Interchangeable Lens 90°**  
direction of view 90°  
field of view 70°  
depth of view 15 up to 200 mm

# Accessories for VIDEOSCOPE diameter 5/3.8 mm **NEW**

Rigid cover sheath for 5 mm videoscopes with a working length of 300 mm

**Special features:**

- 360° rotating
- Both 0° and 90° direction of view possible



V05003 AQ

V05003 AQ **Rigid Cover Sheath** for 5 mm videoscopes,  
working length: 300 mm,  
outer diameter: 6.35 mm

Tool for easy exchange of all interchangeable lenses on 5 mm videoscope

**Special features:**

- Interchangeable lenses can be exchanged with the minimum of effort
- Easy to use



V0500 A



V0400 A

V0500 A **Tool** for interchangeable lens diameter 5 mm videoscopes

V0400 A **Tool** for interchangeable lens diameter 3.8 mm videoscopes

# TECHNO VIDEOSCOPE LCD Flat Screen Display

LCD flat screen display for connection to Camera  
Control Unit **TECHNO VIDEOSCOPE 81 2810 01**  
and **81 2811 01** or **TECHNO PACK™**  
and **TECHNO PACK™ II**

For connection to all 8, 5 and 3.8 videoscopes

**Specifications:**

Color systems: **PAL/NTSC**  
Monitor: 6.4"  
Resolution: > 450 lines (horizontal)  
Weight: 0.78 kg  
Dimensions: 16 x 14 x 3 cm  
(w x h x d)  
Certified to: CE  
Resolution: 320 x 240 (pixels)



80404 LCD

- 80404 **Set LCD Flat Screen Display**  
**consisting of:**
- 80404 LCD **LCD Flat Screen Display 6.4"**
  - 80404 K2 **LCD Flat Screen Connecting Cable**, for connection to TECHNO PACK™, length 2.4 m
  - 80404 C **Cable Clips**

**Accessories:**

- 80404 K3 **Extension Cable**, length 3 m
- 80404 C **Cable Clips**
- 80404 G **Carrying Strap**
- 80404 K2A **LCD Flat Screen Connecting Cable**, for connection to TECHNO PACK™ II, length 2.4 m