



Endoscopy is now recognised as an essential and economical examination technique in industrial applications. Endoscopic examination reveals damage at an early stage and is invaluable in quality management of industrial process.

HEINE Optotechnik's focus is on top-quality hand-held, direct-view endoscopes. These include rigid endoscopes which provide the clearest images for reliable diagnosis. All HEINE endoscopes are available with a portable power supply for complete mobility.

When choosing an endoscope it is important to know what will be examined and at what distance. The size of the opening and the access to the examination site must also be considered. There are two main kinds of endoscope: Rigid and flexible.

Rigid Endoscopes:

These incorporate high-performance lens systems which are arranged together to deliver high-resolution, high-contrast images of exceptional clarity.

Flexible Endoscopes:

The image is transmitted by a fiber-optic bundle. This is made up of a huge number of fine glass or plastic fibers. Image pixels are transmitted by the individual fibers in the flexible probe and are then re-aligned at the eyepiece to form the high-resolution image.

HEINE Optotechnik offers flexible endoscopes of exceptional quality at highly-competitive prices. HEINE's key to success lies in the newest production technology now operating in its factories in Germany and HEINE's traditional commitment to quality. From the raw-material to the finished instrument, every production step is carried out at HEINE's facilities south-west of Munich.

The wide range of endoscopes offers exactly the right instrument, whether in the automotive, manufacturing or construction area.



RW8 Endoscopes Ø 8 mm

Rigid Warm Light Endoscopes with lens optics

Specification



∴ Diameter:	8 mm
∴ Working lengths:	230 mm, 385 mm
∴ Direction of view:	90°
∴ Field of view:	35°
∴ Focal range:	from 5 mm to infinity

RW8 Endoscopes	3.5V	12V
RW8-230 Working length 230 mm	T-002.26.103	T-005.26.103
RW8-385 Working length 385 mm	T-002.26.102	T-005.26.102

RW8 Endoscope-Set	3,5V	
Set RW8-230, 3.5V, contents: Endoscope, BETA Battery handle, 3.5V XHL Xenon Halogen bulb, Transport and Storage case [01]	T-557.20.123	



[01]

Accessories for RW8 Endoscopes	3.5V	12V
XHL Xenon Halogen Spare Bulb	T-002.88.075	
XHL Xenon Halogen Spare Bulb		T-005.88.079

Additional accessories see page 010.

Power and light sources

∴ BETA Battery handle for 3 LR14 dry batteries	3.5V
∴ Rechargeable handles NiMH or Li-ion	
∴ Accubox I with brightness control	12V



RWX8 Endoscopes Ø 8 mm

Rigid Warm Light Endoscopes with lens optics

Specification



∴ Diameter:	8 mm
∴ Working lengths:	230 mm, 385 mm
∴ Direction of view:	70°
∴ Field of view:	85°
∴ Focal range:	from 5 mm to infinity

RWX8 Endoscopes	3.5V	12V
RWX8-230 Working length 230 mm	T-002.26.124	T-005.26.124
RWX8-385 Working length 385 mm	T-002.26.125	T-005.26.125



[01]

RWX8 Endoscope-Sets		
Set RWX8-230 A, 12V, contents: Endoscope, 12V XHL Xenon Halogen bulb, Angled Attachment 120°/120 mm, Connecting Cord for Cigarette Lighter Socket, spare bulb, Transport and Storage case [01]		T-532.50.246
Set RWX8-230, 12V, contents: as above, without Angled Attachment		T-533.50.246

Accessories for RWX8 Endoscopes	3.5V	12V
XHL Xenon Halogen Spare Bulb	T-002.88.075	T-005.88.079
Transport and Storage case for short and medium-length Endoscopes		T-522.00.000
Transport and Storage case for long Endoscopes		T-541.00.000

Additional Accessories see page 010.

Power and light sources		
∴ BETA Battery handle for 3 LR14 dry batteries ∴ Rechargeable handles NiMH or Li-ion		3.5V
∴ Connecting Cable for Cigarette Lighter Socket (5m) ∴ Accubox I with brightness control		12V

RWD8-320 Endoscope Ø 8mm

Rigid Warm Light Endoscopes with lens optics



Specification

∴ Diameter:	8mm
∴ Working length:	320mm
∴ Direction of view:	90°
∴ Field of view:	56°
∴ Focal range:	from 5 mm to infinity

RWD8-320 Endoscope	12V
RWD8-320, Working length 320mm	T-005.26.112

RWD8-320 Endoscope-Set	
Set RWD 8-320 A, including: Endoscope, 12V XHL Xenon Halogen Bulb, Angled Attachment 120°/250mm, Accubox II, Connecting Cord, Spare Bulb, Rubber Eyepiece, Transport and Storage case [01]	T-558.50.634



[01]

Accessories for RWX8 Endoscopes	12V
XHL Xenon Halogen Spare Bulb 12V	T-005.88.092
Transport and Storage case	T-542.00.000

Additional Accessories see page 010.

Power and light sources	
∴ Accubox II with on/off switch	12V



RC4 Endoscopes Ø 4.5 mm

Rigid Cold Light Endoscopes with lens optics



Specification

▷ Diameter:	4.5 mm
▷ Working lengths:	310 mm, 450 mm
▷ Direction of view:	0°, 70°, 90°, 120°
▷ Field of view:	40°
▷ Focal range:	from 3 mm to infinity

RC4 Cold Light Endoscopes

RC4-310 incl. protective tube dia. 4.5 mm, Working length 310 mm without light and power sources	T-000.26.419
RC4-450 incl. protective tube dia. 4.5 mm, Working length 450 mm without light and power sources	T-000.26.429



[01]

RC4 Endoscope Sets with LED ScopeLight

	3.5V
Set RC4-310 A incl. Protective tube, LED ScopeLight, contents: Mirror tubes 70° and 120°, Angled Attachment 120°/120mm, Rubber Eyepiece, BETA Battery handle, Extension Cord Automatic Plug, Cleaning Kit, Transport and Storage case [01]	T-554.28.123
Set RC4-450 A incl. Protective tube, LED ScopeLight, contents: Mirror tubes 70° and 120°, Angled Attachment 120°/120mm, Rubber Eyepiece, BETA Battery handle, Extension Cord Automatic Plug, Cleaning Kit, Transport and Storage case	T-555.28.123

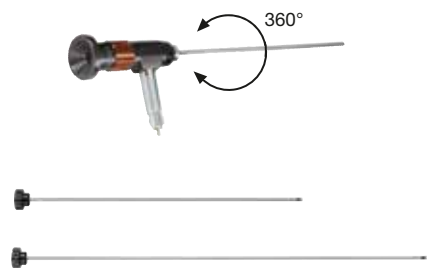


[02]

RC4 Endoscope Sets

	12V
Set RC4-310 A including Protective tube, content: AV-Adaptor incl. 12V XHL Xenon Halogen spare bulb, Mirror tubes 70° and 120°, Angled Attachment 120°/120mm, Connecting Cable for Cigarette Light Socket, Rubber Eyepiece, 12V XHL Xenon Halogen spare bulb, Cleaning Kit, Transport and Storage case [02]	T-546.50.246
Set RC4-450 A, contents as T-546.50.246, however with Endoscope dia. 4.5/450 mm working length, with Protective tube and 450 mm Mirror tubes 70° and 120°	T-547.50.246

RC4 Endoscopes Ø 4.5 mm Accessories



RC4 Mirror tubes

View. direction	70°	90°	120°
Working length			
310mm	T-000.26.424	T-000.26.425	T-000.26.426
450mm	T-000.26.434	T-000.26.435	T-000.26.436



[01]



[02]

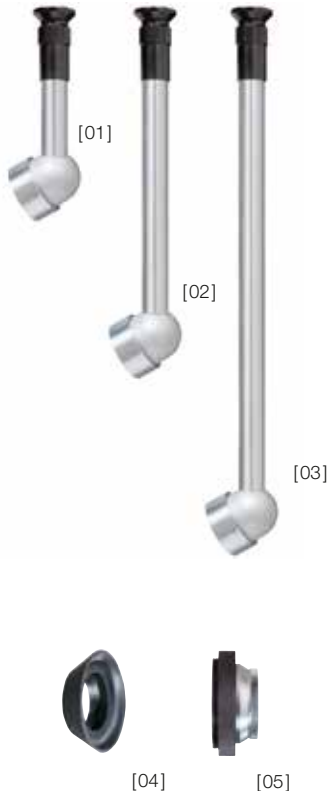
Additional Accessories for RC4 F.O. Endoscopes

	3.5V/12V
LED ScopeLight Endoscope illumination 3.5V	T-008.26.075
AV-Adaptor incl. 3.5V XHL Xenon Halogen bulb [01]	T-002.26.402
XHL Xenon Halogen spare bulb, 3.5V	T-002.88.078
AV-Adaptor incl. 12V XHL Xenon Halogen bulb	T-005.26.402
XHL Xenon Halogen spare bulb, 12V	T-005.88.103
Extension Cord Automatic Plug	T-000.99.230
BETA Belt Clip for BETA handles [02]	T-000.99.008
Transport and Storage case for RC4 Endoscopes	T-546.00.000

Power and light sources

<ul style="list-style-type: none"> ❖ BETA Battery handle for 3 LR14 dry batteries ❖ Rechargeable handles NiMH or Li-ion ❖ AV - Adaptor with 3.5V XHL bulb ❖ LED ScopeLight 	3.5V
<ul style="list-style-type: none"> ❖ Connecting Cable for Cigarette Lighter Socket (5 m) ❖ Accubox I with brightness control ❖ Accubox II with on/off switch ❖ AV-Adaptor with 12V XHL bulb 	12V
<ul style="list-style-type: none"> ❖ F.O. Projector HK 7000 ❖ F.O. Light Guide 	220V

Accessories for all rigid HEINE Endoscopes



∴ Angled Attachments

The angled attachment allows comfortable viewing even in confined spaces. The endoscope may be rotated when fitted to the angled attachment by 360°, the image remains upright and non-inverted.

∴ Rubber Eyepiece for Spectacle Wearers

Soft rubber eyepiece avoids stray light. Recommended for spectacle-wearers. Fits all HEINE Endoscopes.

∴ Camera Adaptor

Fits between camera and the endoscope eyepiece. Fits all rigid HEINE Endoscopes.

∴ CCD Camera-Adaptor

For standard 1/2 inch CCD cameras with C-mount connector. Focal length 35mm.

Angled Attachment, 120°/120mm [01]	T-000.26.090
Angled Attachment, 120°/250mm [02]	T-000.26.094
Angled Attachment, 120°/360mm [03]	T-000.26.093
Rubber Eyepiece for Spectacle Wearers [04]	T-000.26.175
Camera Adaptor 28mm	T-000.26.186
Camera Adaptor 49mm [05]	T-000.26.176
Camera Adaptor 52mm	T-000.26.177
Camera Adaptor 55mm	T-000.26.178
Camera Adaptor 58mm	T-000.26.179

HEINE Cleaning Kit

for Technical Inspection Instruments



The HEINE Cleaning Kit is suitable for the manual cleaning of small glass-lenses and mirror surfaces. Its use has been optimised especially for HEINE Technical Inspection Instruments.

Contents:

- ∴ HEINE Micro-Fibre Cleaning Cloth [01]
- ∴ Ultrapure Isopropanol (99,8%), approved by HEINE [02]
- ∴ Cleaning rods with scratch-free „glide-fleece“ tips [03]
- ∴ Puffer for scratch-free cleaning [04]
- ∴ Shock-proof PE case and extensive user guide [05] + [06]

Cleaning Kit

T-000.26.001

HEINE SFT 4-720 Ø 4.2 mm Endoscope

Flex & Twist Fiber Optic Endoscope

Specification

∴ Diameter:	4.2 mm
∴ Working length:	720 mm
∴ Radius of curvature:	30 mm
∴ Direction of view:	0°, detachable Angled Side View Adaptor: 90°, 110°
∴ Field of view:	40°
∴ Resolution:	Fiber bundle with 17 000 optical fibers
∴ Focal Range:	from 5 mm to infinity
∴ Special features:	360° view with Flex & Twist feature, waterproof, oil and petrol-resistant probe



Flex & Twist feature



[01]

SFT 4-720 Endoscope

SFT 4-720 Endoscope in Transport and Storage case	T-000.26.741
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SFT 4-720 Endoscope Sets

	3.5V	12V
Set SFT4-720, 3.5V, contents: SFT4-720, BETA Battery handle 3.5V, AV-Adaptor, Spare bulb 3.5V, Rubber Eyepiece, Cleaning Kit, Transport and Storage case	T-556.20.123	
Set SFT4-720, 12V, contents: SFT4-720, Connecting Cord for Cigarette Lighter Socket, AV-Adaptor, Spare bulb 12V, Rubber Eyepiece Cleaning Kit, Transport and Storage case		T-556.50.246

SFT 4-720 Endoscope Set with LED ScopeLight

Set SFT4-720 with LED ScopeLight, 3.5V, contents: BETA Battery handle 3.5V, Extension Cord Automatic plug, Rubber Eyepiece, Cleaning Kit, Transport and Storage case [01]	T-556.28.123
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HEINE SF6-1000 Ø 6mm Endoscope
Semi-flexible Fiber Optic Endoscope



[01]

Specification

∴ Diameter:	6mm
∴ Working length:	1000mm
∴ Radius of curvature:	30mm
∴ Direction of view:	0°, detachable Angled Side View Adaptor: 90°, 110°
∴ Field of view:	50°
∴ Resolution:	Fiber bundle with 7400 optical fibers
∴ Focal Range:	10mm to infinity
∴ Special features:	Waterproof, oil and petrol-resistant probe

SF6-1000 Endoscope

SF6-1000 in Transport and Storage case	T-000.26.721
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SF6-1000 Endoscope Sets

	3.5V	12V
Set SF6-1000, 3.5V, contents: SF6-1000, AV-Adaptor, BETA Battery handle 3.5V, XHL Xenon Halogen spare bulb 3.5V, Rubber Eyepiece, Cleaning Kit, Transport and Storage case	T-538.20.123	
Set SF6-1000, 12V, contents: SF6-1000, AV-Adaptor, Connection Cable for Cig. Lighter Socket, XHL Xenon Halogen spare bulb 12V, Rubber Eyepiece, Cleaning Kit, Transport and Storage case		T-538.50.246

SF6-1000 Endoscope-Set with LED ScopeLight

Set SF6-1000, 3.5V, LED ScopeLight, contents: 3.5V, contents: BETA Battery handle 3.5V, Extension Cord Automatic Plug, Rubber Eyepiece, Cleaning Kit, Transport and Storage case [01]	T-551.28.123
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HEINE SFM8-1000/2000 Ø 8mm Endoscopes
Flex & Stay Fiber Optic Endoscopes



Specification

∴ Diameter:	8mm
∴ Working lengths:	1000mm or 2000mm
∴ Radius of curvature:	60mm
∴ Direction of view:	0°, detachable Angled Side View Adaptor: 90°, 110°
∴ Field of view:	50°
∴ Resolution:	Fiber bundle with 7400 optical fibers
∴ Focal Range:	10mm to infinity
∴ Special features:	Waterproof, oil and petrol-resistant probe

SFM8-1000/2000 Endoscope

SFM8-1000 in Transport and Storage case	T-000.26.731
SFM8-2000 in Transport and Storage case	T-000.26.733

SFM8-1000/2000 Endoscope Sets

	3.5V	12V
Set SFM8-1000, 3.5V, contents: SFM8-1000, AV Adaptor, BETA Battery handle 3.5V, XHL Xenon Halogen spare bulb 3.5V, Rubber Eyepiece, Cleaning Kit, Transport and Storage case		T-539.20.123
same, but with SFM8-2000	T-540.20.123	
Set SFM8-1000, 12V, contents: SFM8-1000, AV-Adaptor, Connecting cable cinch/AV connector, Accubox I, Rubber Eyepiece, XHL Xenon Halogen spare bulb 12V, Cleaning Kit, Transport and Storage case		T-539.50.629
same, but with SFM8-2000		T-540.50.629



[01]

Endoscope-Sets SFM8 with LED ScopeLight

	3.5V	
Set SFM8-1000, 3.5V, LED ScopeLight, contents: BETA Battery handle, Extension Cord Automatic Plug, Rubber Eyepiece, Cleaning Kit, Transport and Storage case		T-552.28.123
same, but with SFM8-2000		T-553.28.123



Accessories for Flexible Endoscopes SF/SFM



110° Angled Side View Adaptor



90° Angled Side View Adaptor



[01]



[02]



[03]



[04]



[05]



[06]

∴ Angled Side View Adaptor:	90°	110°
∴ For SFT 4 Endoscope	T-000.26.744	T-000.26.743
∴ For SF6 Endoscope	T-000.26.724	T-000.26.723
∴ For SFM8 Endoscope	T-000.26.724	T-000.26.723

LED ScopeLight 3.5V [01]	T-008.26.075
AV-Adaptor incl. 12V XHL Xenon Halogen bulb [02]	T-002.26.402
AV-Adaptor incl. 3.5V XHL Xenon Halogen bulb	T-005.26.402
Rubber Eyepiece for Spectacle Wearers [03]	T-000.26.175
Camera Adaptor 28mm [04]	T-000.26.186
Camera Adaptor 49mm	T-000.26.176
Camera Adaptor 52mm	T-000.26.177
Camera Adaptor 55mm	T-000.26.178
Camera Adaptor 58mm	T-000.26.179
Extension Cord Automatic Plug	T-000.99.230
BETA Belt Clip for BETA handles [05]	T-000.99.008
Cleaning Kit [06]	T-000.26.001
Transport and Storage case SF/SFM/SFT	T-539.00.000
XHL Xenon Halogen Spare Bulb 3.5V	T-002.88.078
XHL Xenon Halogen Spare Bulb 12V	T-005.88.103

For more information about the Cleaning Kit, please see page 010.

Power and light sources

<ul style="list-style-type: none"> ∴ BETA Battery handle for 3 LR14 dry batteries ∴ Rechargeable handles NiMH or Li-ion ∴ AV-Adaptor with 3.5V XHL Xenon Halogen bulb ∴ LED ScopeLight 	3.5V
<ul style="list-style-type: none"> ∴ Connecting Cable for Cigarette Lighter Socket (5m) ∴ Accubox I with brightness control ∴ Accubox II with on/off switch ∴ AV-Adaptor with 12V XHL Xenon Halogen bulb 	12V
<ul style="list-style-type: none"> ∴ F.O. Projector HK 7000 ∴ F.O. Light Guide 	220V