

Fiberscopes, endoscopes and light sources



Fiberscope



Diopter focus



The sturdy probe, made of a heavy metal alloy, protects against crushing and mechanical attrition. The probes are waterproof and resistant to oils, petrol and chemical

The standard DIN eyepiece connects easily to a video, digital or photographic camera

Tip articulation, reinforced by a tungsten braid, aids maneuverability and provides a panoramic view of the area being inspected



The flexible insertion tube, made of the very hard-wearing Tunflex braid, adapts easily to curves and bends and can be snaked around corners

Flexible endoscope

The fiberscopes provide ease of penetration into the most convoluted systems. The image conductor is made of thousands of microfibers, and the 2-ways (2x110°) articulation allows inspection in any direction. The light guide is attached to the fiberscope.

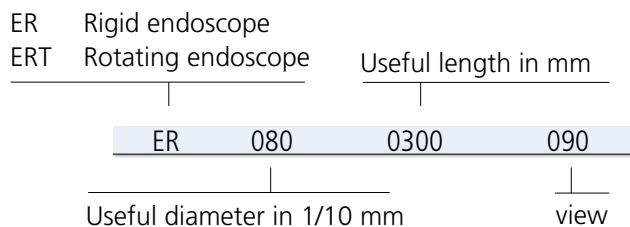
Reference	Body diameter	Working length
EF2250750	Ø 2.5 mm	750 mm
EF2251000	Ø 2.5 mm	1000 mm
EF2251200	Ø 2.5 mm	1200 mm
EF2350700	Ø 3.8 mm	700 mm
EF2351100	Ø 3.8 mm	1100 mm
EF2051100	Ø 5.0 mm	1100 mm

Optican rigid endoscopes

For precise inspections, the image resolution provided by rigid endoscope is unfeatable. The rigid and flexible endoscopes can be equipped with accessories such as Videolab (light source plus video) and memory systems. With a direct vision endoscope, a optional mirror tube allows to inspect with side vision.

Useful Ø (mm)	Axis of vision	Useful length (mm)			
Ø 2.7	VD, V30, V70	55	105	175	
Ø 4	VD, V30, V70	175	302		
Ø 5.5	VD ⁽¹⁾ , V45 ⁽²⁾ , V90 ⁽²⁾ , V110 ⁽²⁾	139	342	464	586
Ø 8	VD ⁽¹⁾ , V45 ⁽²⁾ , V90 ⁽²⁾ , V110 ⁽²⁾	221	464	710	950
Ø 10	VD ⁽¹⁾ , V45 ⁽²⁾ , V90 ⁽²⁾ , V110 ⁽²⁾	221	464	710	950

⁽¹⁾ Mirror tube - ⁽²⁾ Rotation vision



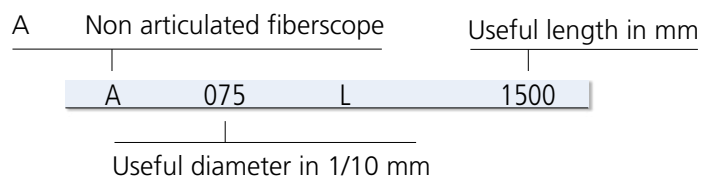
For any other diameter and length, please contact us.

Micro flexible endoscope



In spite of the very small diameter (0.5-2.5 mm), micro fiberscopes offer high quality with high resolution (up to 30000 pixels) and will help to solve many inspection problems within the ranges of micro components, micro channels, etc.

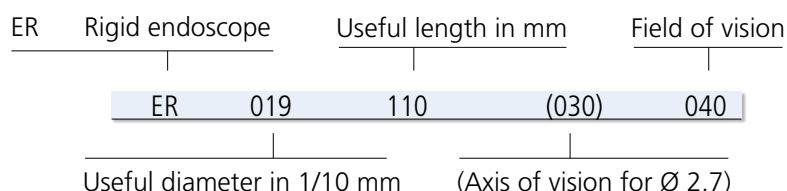
	050	075	100	200	300	600
Useful diameter (mm)	0.5	0.75	1.0	2.0	3	6
Useful length (m)	0.5 / 1.0 / 1.5 / 2.0			2 / 3 / 4 / 2	0.5 to 15m	2/3/5
Resolution (pixels)	4000	6000	10000	30000	30000	30000
Vision	0° direct				0°	0° and 90° (option)
Field of vision (approx.)	70°	70°	70°	70°	60°	60°
Depth of field	3-50 mm			from 10 mm to infinity		from 15 mm to infinity
Eyepiece	ajustable					
Minimum articulation radius (mm)	10	15	30	60	60	60
Maximum rigid part (mm)	5	5	6	10	25	25
Lighting	1500 mm lighting cable made with optic fibers					
Video and camera use	The eyepiece design allows to fix the related connections					
Storage conditions	0 to 60°C					



Micro rigid endoscope

When vision with rigid endoscopes is possible, the very high image quality offered by the micro endoscopes, combined with the short distance of vision and the infinite depth of field offers a versatile tool to inspect micromechanisms. With a 40° field direct vision endoscope, an optional mirror tube allows to inspect with side vision.

Ø (mm)	Axis of vision	Field of vision	Mirror tube	Useful length (mm)			
Ø 1	VD	40°	•	60			
		70°					
Ø 1.9	VD	40°	•	70	110	150	240
		70°					
Ø 2.7	VD	40°	•	110	175	250	
	V30°	70°					



For any other diameter and length, please contact us.

Light sources



Characteristics	LUMINO 100	LUMINO 500	GLI 154	LUM 14
Power supply	230 V / 50-60 Hz	230 V / 50-60 Hz / 12 VDC	230 V / 50 Hz	3 x R14 batteries
Brightness adjustment	progressive diaphragm	progressive diaphragm	progressive diaphragm	potentiometer
Lamp	100 w - 12 V Halogen	50 w Xenon arc	150 w Halogen	5 V 0.3A Halogen
Colour temperature	3200° K	4500° K	3200° K	3100° K
Useful life of lamp	50 or 1500 hours	1500 hours	50 hours	25 hours
Dimensions (mm)	h:100/ l:170/ d:200	h:100/ l:170/ d:200	h:140/ l:170/ d:190	Ø 30 x 200
Weight	2 kg	2.5 kg	3.6 kg	0.35 kg
Conditions of use	0 to +40° C	0 to + 40° C	0 to + 40° C	0 to + 40° C
Storage conditions	0 to +60° C	0 to + 60° C	0 to + 60° C	0 to + 60° C

Light guide cable

Very flexible, very resistant to chemical agents, good tensile strength, adapters available for most light sources and endoscope types.

Reference	Length	Fiber ø
LCL1G 18S	1.8 m	4 mm
LCL1G 24S	2.4 m	4 mm
LCL1G 36S	3.6 m	4 mm



Lynx MC2 Micro-camera*

The Lynx MC2 camera is compact, light and fluid resistant. Equipped with the latest generation CCD colour sensor with very high colour rendition, this camera has a very high resolution and sensitivity. Fitted on a C-mount, the MC2 Lynx camera adapts perfectly to a wide range of commercial lenses.

* To be used with any of the video-processors : PX500ME, P101ME...

Video standard	PAL
Resolution	470,000 pixels
Sensor	CCD 1/3 inch - sensitivity < 1 lux
Lens	Any C mount lens
Cable length	2.4 meters



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