



# More Precision

ELTROTEC // Industrial Endoscopes



## ELTROTEC Pro Superslim/Slim/Hardy/SuperHardy



- Ø 1.85mm to 7.2mm
- Lengths: 50mm to 940mm
- Focal range from 2mm to ∞
- Latest endoGRINs® image relay lenses
- External focus ring for dioptre adjustment
- Temperature range optional up to 300°C

### Description:

Rigid ELTROTEC Pro precision endoscopes complete the proven advantages of the Top-Line series by first-class quality of the special multi-coated lenses and modern GRIN lens technology. These endoscopes are designed for the professional user.

Other high quality characteristics include a focus ring and an optimised fibre optic connector for high light yield.

This is why these endoscopes are ideal for adapting to a camera.

The endoscopes can optionally be connected to a camera system.

### Features:

- For mobile use
- Brilliant and high-contrast images
- Temperature range optional up to 300°C

### Operating conditions:

- Temperature in air:
  - Endoscope probe: -20°C to +120°C
  - Complete endoscope: -20°C to +50°C
- Pressure resistance in air: up to 5 bar
- Resistance to liquids:
  - The endoscope probe can be immersed in the following liquids for short periods: water, saline solution (5%), kerosene, petrol, diesel, 70% alcohol
- Humidity: up to 95% at 40° (no condensation)



Independent focusing ring



Classic fibre optic connector



Pro fibre optic connector



Type	Outer-Ø mm	Direction of view	Field of View	Length mm	Article no.
ProMicroslim	1.85	0°	42°	80	20752184
	1.85	0°	42°	120	20752221
	1.85	0°	42°	178	20752222
ProSuperslim	2.4	0°	42°	102	20751409
	2.4	0°	42°	185	20751481
	2.8	0°	42°	265	20752224
	2.8	0°	42°	350	20752225
	2.8	0°	42°	435	20752226
ProSlim	4.2	0°	42°	50	20752205
	4.2	0°	42°	180	20752195
	4.2	0°	42°	305	20752202
	4.2	0°	42°	435	20752230
	4.2	0°	42°	560	20752215
ProHardy	6.35	0°	42°	180	20752231
	6.35	0°	42°	305	20752232
	6.35	0°	42°	435	20752233
	6.35	0°	42°	560	20752234
ProSuperHardy	7.2	0°	42°	711	20752194
	7.2	0°	42°	940	20752191

#### Mirror tubes for Eltrotec Pro endoscopes

- Direction of view 90°
- Rotatable stainless steel tube - 360°
- Mirror in the form of a prism



Outer-Ø mm	Direction of view	Article no. mirror tube	for endoscope-Ø mm	Length mm	Article no. endoscope
2.2	90°	20751389	1.85	80	20752184
		20752096		120	20752221
		20752223		178	20752222
2.77	90°	20751392	2.4	102	20751409
		20751393		185	20751481
3.8	90°	20752227	2.8	265	20752224
		20752228		350	20752225
		20752229		435	20752226
4.8	90°	20752236	4.2	50	20752205
		20750838		180	20752195
		20751091		305	20752202
		20751397		435	20752230
		20751765		560	20752215
8.0	90°	20751401	6.35	180	20752231
		20751402		305	20752232
		20751143		435	20752233
		20752235		560	20752234
8.0	90°	20752193	7.2	711	20752194
		20752192		940	20752191

Accessories	Article no.
Mini Maglite hand light source	20751054
LED hand light source	20751761
SuperNova LED hand light source	20752271



Mini Maglite hand light source

LED hand light source

SuperNova LED hand light source

## High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



2D/3D profile sensors (laser scanner)



Optical micrometers, fibre optic sensors and fibre optics



Colour recognition sensors, LED analyzers and colour online spectrometer



Measurement and inspection systems