MICRO-EPSILON

More Precision

Eltrotec // Industrial Endoscopes

360° View

Ø 4 mm   Ø 6 mm

12 mm   17 mm
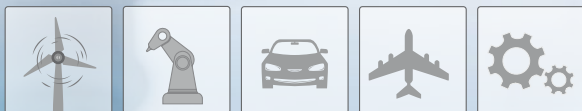
- *Ø 2.4 mm to 8 mm*

- *Short probe head*

- *Compact video endoscope system as modular system*

- *Resolution up to 18,000 pixels*

- *Wi-Fi Live Stream*

- *0° and 90° view at a glance*

The compact video endoscope systems from Micro-Epsilon Eltrotec present the optimum solution for your mobile application.

The modular system has a wide range of probes with different diameters and working lengths as well as camera and light technologies. This results in a huge spectrum of configuration possibilities.

The perfect solution for your application is always possible!

The PRO SERIES allows infinite variations. Choose a compact device for your specific application. Or put together the right system for different areas of application and expand it as required.

DUAL VIEW

0° and 90° view simultaneously from 4 mm diameter

Ultra-short probe head

Extremely compact dual-unit

0°   90°
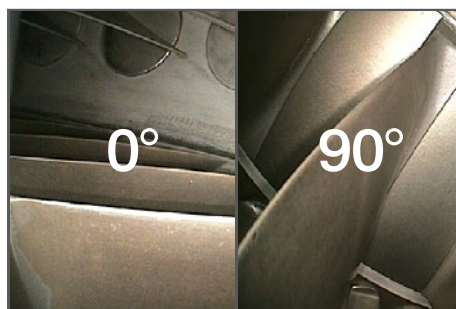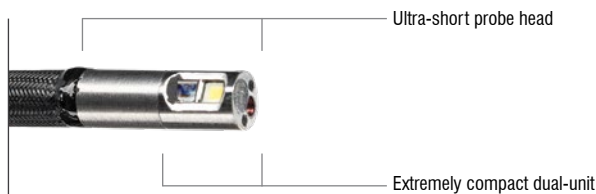
DUAL SCOPE
0°-Visibility and 90°-view at the same time

The laterally installed 90° camera is located directly at the distal end. This directly enables dual vision without delay. The distal end is extremely short due to the compact design and thus provides the best possible navigation characteristics.
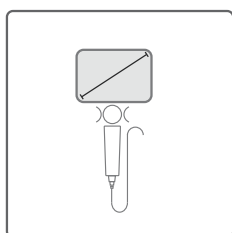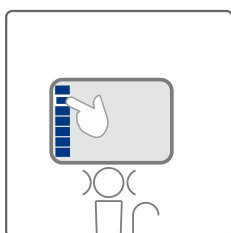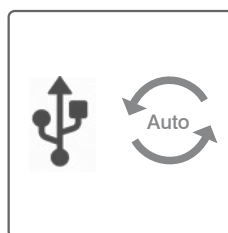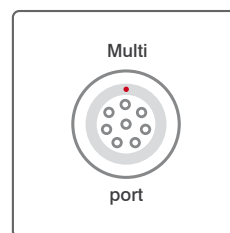
7" touch display   EIOS software   Wi-Fi Live Stream   USB Auto synchronization   USB Analog Video OUT

Multi

port

The most important technical features of video endoscope systems at a glance.
Please contact us - we will advise you on the selection of the optimal system.

Monitor

Model	Monitor for iRIS X PRO / iRIS X PRO / iCAPTURE PRO	
Display size (diagonal)	7.0"	
Display type	TFT/color display with touchscreen	
Resolution	1024 x 600 pixels	
User interface	EIOS Endoscopic Imaging Operation System	
Menu operation	on-screen menu	
Settings	Camera control, inversion, zoom, full-screen mode (switchable), storage location, file manager, resolution, logo, Auto timeout, date, time	
Text comments	integrated text-overlay generator	
Languages	German, English, French, Spanish, Italian, Russian, Chinese	
Interfaces	USB, data can be forwarded "wireless"; 8-PIN interface for probe connection; power supply: 12 V power supply unit	
Power supply	primary	replaceable Li-Ion battery included
	secondary	12 V power supply unit
Documentation	Video format	MPEG4 (.avi) (with time and date stamp)
	Image format	BMP (.bmp), JPEG (.jpg), PNG (.png) (with time and date stamp)
	Storage	internal memory 16 GB/USB (16 GB included)
Image analysis	Method	comparative, optical measurement
Illumination	Model	high power LED with fiber optics or LED on the TIP approx. 6500 k
	Light setting	three-stage
	Service life	approx. 5000 h
Other data	Ergonomics	± 90° rotatable display or ± 90° rotatable stand
	Dimensions (H x W)	187 mm x 129 mm, diagonal 104 mm
	Weight	1.28 kg
	Housing	robust PU with full rubber protection
	Operating temperature (system)	-25 °C to +46 °C
	Storage temperature	-25 °C to +60 °C
	Humidity	max. 95% - non-condensing
	Protection class	IP54

Probes - permanently connected to the monitor or separately combinable in different diameters
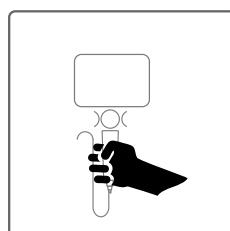
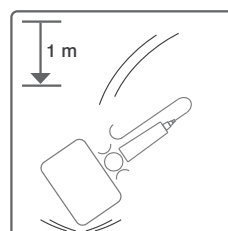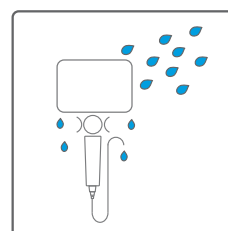|	
Diameter mm	2.4; 3; 4; 6; 8
Length m	Ø 2.4 mm 1.0 to 2.0; Ø 3.0 mm 1.0 to 2.0; Ø 4.0 mm 1.5 to 4.0; Ø 6 + 8 mm 1.5 to 10.0
Angular deflection by means of tactile control	Ø 2.4 + 3.0 mm 2-fold; from Ø 4.0 mm 2-fold and 4-fold
Camera sensor	high resolution Super HAD / CCD image sensor or AIT Advance Image Sensor
Probe	robust braided tungsten
Direction of view	0° / 90° selectable
Aperture angle	90°
Dual probe	from Ø 4.0 mm
Side view adapter	from Ø 4.0 mm depending on the version
Interchangeable lenses	from Ø 6.0 mm depending on the version
Weight	approx. 300 g depending on length and diameter
Operating temperature (probe):	140 °C max. 5 minutes -25 °C to +80 °C
Storage temperature	-25 °C to +60 °C
Humidity	max. 95 % - non-condensing
Water tightness	up to 1 bar - 10.2 m H2O
Resistance	Probe can be immersed for a short time in salt solutions (5%), kerosene, petrol, diesel, alcohol (50%)
Protection class	IP67
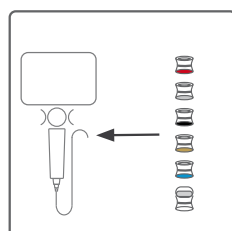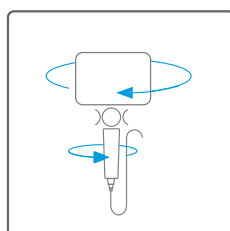
Interchangeable lenses | 360° swivel monitor | Compact | Shock-proof | Splash-proof

Sensors and Systems from Micro-Epsilon

Sensors and systems for displacement, distance and position

Sensors and measurement devices for non-contact temperature measurement

Measuring and inspection systems for metal strips, plastics and rubber

Optical micrometers and fiber optics, measuring and test amplifiers

Color recognition sensors, LED analyzers and inline color spectrometers

Industrial endoscopes, light sources