



# More Precision

**Eltrotec** // Industrial Endoscopes



## ELTROTEC Full HD-HDMI Color Cameras

- For all rigid and flexible Eltrotec endoscopes
- Easy image transmission to analog monitor (TV set)
- No PC / software required
- 2 crosshairs can be displayed
- 8 DSP profiles freely configurable

Model	Endo CA1/3
Image sensor	1/2,8" CMOS
Resolution	1920 x 1080 pixels
Pixel size	2.8 $\mu\text{m}$
Color	yes
Images per second	25/50 or 30/60 switchable
White balance	auto / reset
Lens connection	C-Mount
Interface	HDMI
Power supply	12 VDC
Dimensions	40 x 40 x 45.8 mm
Weight	120 g
Part number	20962599

Accessories	Part number
HDMI connection cable 3 m	20972624
Remote control	20972609
Power supply unit	20972608

## Monitors

- Visualization of results
- Robust industrial monitors
- High color brilliance

Model	Monitor 17"
Resolution (pixels)	1280x1024
Display element	Color TFT/LCD
Viewing angle	horizontal 160°, vertical 160°
Screen diagonal	17", 43 cm
Typ. brightness	250 cd/m <sup>2</sup>
Contrast ratio	1000:1
PC inputs	VGA
Typ. reaction time	5 ms
Video input	Y/C, VGA, HDMI, Composite (FBAS)
Power supply	12 VDC
Housing color	anthracite
Housing material	Aluminum
Weight	6 kg
Dimensions (incl. base)	416x398x49.5 mm
Certifications	CE
Part number	20961887



Identifying contamination



Burr inspection



## ELTROTEC USB Cameras

- For all rigid and flexible Eltrotec endoscopes
- Connection to notebook
- Network-independent operation for mobile applications
- Software included

Model	Endo CU1/2" 2,3 MP	Endo CU 1/1,8" 5 MP	Endo CU 1/1,8" 5 MP
Part number	20962603	20962662	20962676
Image sensor	1/2" CMOS	1/1,8" CMOS	
Resolution	1936 x 1216 pixels	2472 x 2064 pixels	4000 x 3000 pixels
Pixel size	2.35 $\mu\text{m}$	2.74 $\mu\text{m}$	1.85 $\mu\text{m}$
Color	yes		
Exposure time (min. - max.)	0,023 - 2000 ms	0,009 - 2000 ms	0,040 - 609 ms
Images per second	166	75	33
White balance	yes		
Lens connection	C-Mount		
Interface	USB 3.0		
Power supply	USB cable		
Dimensions	29 x 29 x 29 mm (L x W x D)		
Weight	49 g	50 g	48 g
Operating temperature	0 °C to 55 °C, max. 80% relative humidity		
Storage temperature	-20 °C to 60 °C, max. 80% relative humidity, non-condensing		
Protection class	IP30		
USB connection cables	20972300 / L: 3 m		
USB connection cable 3 m with angled connector	20972284		



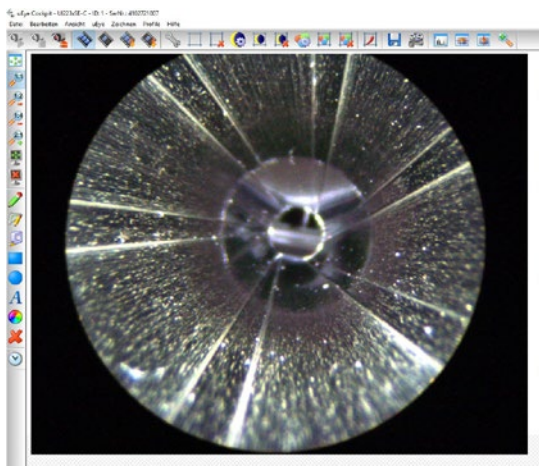
Endo CU1/2" 2,3 MP



Endo CU 1/1,8" 5 MP



Endo CU 1/1,8" 12 MP



Software 20961601 + 10962299



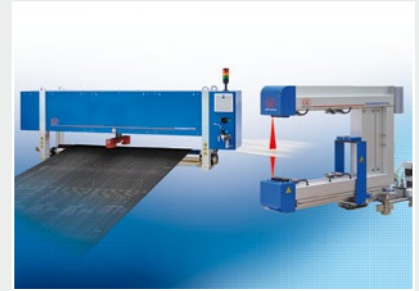
## Sensors and Systems from Micro-Epsilon



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