Electronic Autocollimator - E



A versatile compact extremely accurate autocollimator



- Precise USB3.0 device combining the functionality of autocollimator with focusing feature for alignment.
- High resolution of down to 0.01 arc sec or 0.05 μrad, with clear aperture of 36 mm.
 - Built-in computer controlled laser pointer for easy alignment.

Built-in Pan & Tilt adjusting mechanics. Hybrid autocollimator fusing together alignment & beam analysis.

Specifications

FoV Autocollimator	±40' (H) x ±25' (V)
FoV Telescope & Beam Profiler	±1°20′ (H) x ±50′ (V)
Clear Aperture	36 mm
Autocollimator's Resolution	0.01 sec
Autocollimator's Accuracy	1.0 sec
Light Source	LED: 670 nm Optional: RGB / 850 / 1060
Retro-reflector for Alignment	Ø35 mm, N.W 160 g, <5"
Line of Sight Retention as Function of Focusing	± 2.5 seconds
Min. Focusing Distance	18 cm
Built-in Coarse Aiming Laser Pointer	650 nm power <1.0 mW Class 2 laser product, IEC60825-1
Spectral Response	350 - 1100 nm (Telescope Mode)

Resolution (H x V pixels)	1920 x 1200 (Global Shutter) Can be divided into multiple working areas, in parallel for up to 400 sectors
Gain Control	x400
Dynamic Range	60 dB, 16 bit
Exposure Speed	39 μsec to 2 sec
Frame Rate	30 fps (16 bit full resolution) Optional - Up to 250 fps (8 bit) minimum AOI – Hardware dependent
Sensor type	Proprietary CMOS
Pixel Size	5.86 μm x 5.86 μm
Background Subtraction	User activated
Trigger	Internal Software
Pan & Tilt Adjustment Range	Large Pan, Tilt ±2.5°,
Power Requirements	~2 Watt (Via USB 3.0 interface)
Dimensions (L x W x H) in mm	250 x 125 x 190
Weight (typical)	3 kg including cable
Min. Hardware Requirements	CPU i5 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766
Interface	USB 3.0, Windows 10/11 (32 & 64 bit)
Operating Temperature	10° – 35° C

Ordering Information

EAC-1012-19-E: Complete system including a collimator unit with USB3.0 camera, software on CD and a retro-reflector for infinity adjustment.



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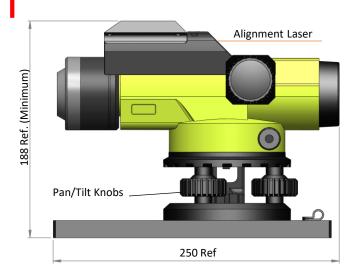
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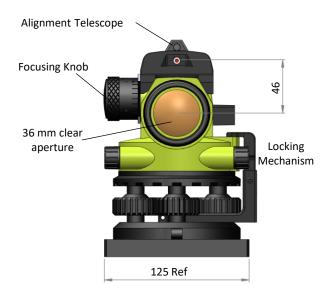


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Dimensions are in mm.

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