Laser Analyzing Electronic Autocollimator-E

UPGRADED

Hybrid technology fusing together
Multi parallel beam profiling & Autocollimation

- Precise USB3.0 device combining the functionality of autocollimator with laser beam analyzing capability.
- 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.

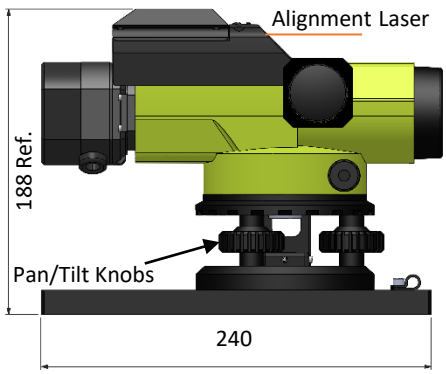
Specifications

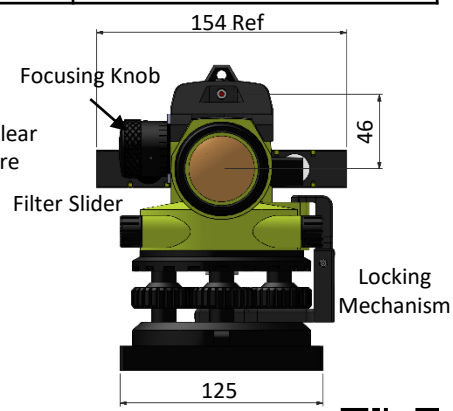
Laser Type	CW & Pulsed
FoV Autocollimator	±40′ (H) x ±25′ (V)
FoV Telescope & Beam Profiler	±1°20′ (H) x ±50′ (V)
Clear Aperture	36 mm
Autocollimator's Resolution	0.01 sec
Autocollimator's Accuracy	1.0 sec
Light Source	LED: 650 nm Optional: RGB / 850 / 1060
Retro-reflector for Alignment	⌀35 mm, N.W 160 g, <5"
Beam Divergence Measurements	Down to 0.2 mRad or better
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
Beam Width Resolution	Better than 2.5 µrad
Spectral Response	350 - 1100 nm (Telescope Mode) VIS 400-700 nm, NIR User specified

Resolution (H x V pixels)	1920 x 1200 Can be divided into multiple working areas, in parallel for up to 400 sectors
Gain Control	x400
Dynamic Range	8/16 bit
Exposure Speed	39 µsec to 2 sec
Frame Rate	40 fps (8 bit), 30 fps (16 bit) – up to 350 fps (AOI)
Beam Divergence Accuracy	±2%
Position Resolution of Laser Beam	Better than 2.5 µrad
Pixel Size	5.86 µm x 5.86 µm
Background Subtraction	User activated
Trigger	Internal Software
Power Requirements	~2 Watt (Via USB 3.0 interface) Or external power supply for optional light sources
Dimensions (L x W x H)	240 x 154 x 190 mm
Weight (typical)	3 kg including cable
Interface	USB 3.0, Windows 8/10/11 (32 & 64 bit)
Operating Temperature	10° – 35° C

Ordering Information

Model EAC-1012-L19-E: Complete system including a collimator unit with USB3.0 camera, built-in 5xND filters on a slider, software on Flash Drive, and a retro-reflector for infinity adjustment.





Dimensions are in mm.

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