Electronic Autocollimator

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.

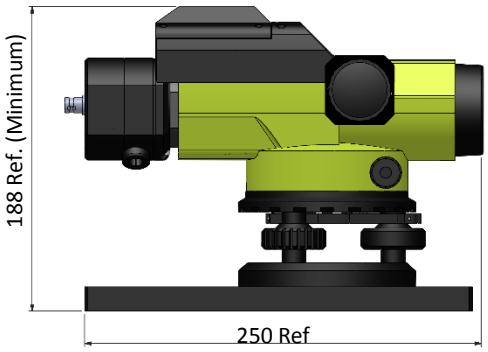
Specifications

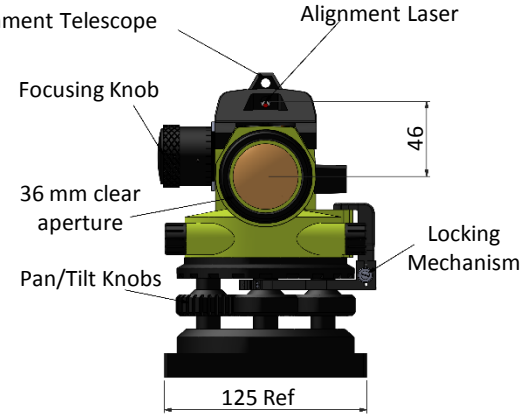
FoV Autocollimator	±25′ (V) x ±40′ (H)
FoV Telescope & Beam Profiler	±50′ (V) x ±1°20′ (H)
Clear Aperture	36 mm
Autocollimator's Resolution	0.01 sec
Autocollimator's Accuracy	1.0 sec
Light Source	LED- 650, optional: 1060, RGB. Special order: 1310 nm
Retro-reflector for alignment	⌀64 mm, N.W 280 g Thread ⌀16 mm, <5"
Line of Sight Retention as Function of Focusing	+/- 2.5 seconds
Min. Focusing Distance	Less than 17.5 cm

Built in coarse aiming Laser Pointer	638 nm power <1.0 mW Class 2 laser product, IEC60825-1
Spectral Response	350 - 1310 nm (Telescope Mode)
Resolution (H x V pixels)	1920 x 1200
Gain Control	x24
Dynamic Range	60 dB , 12 bit
Exposure Speed	39 µsec to 20 sec
Frame Rate	40 fps (8 bit)
Sensor type	Proprietary CMOS
Pixel Size	5.86 µm x 5.86 µm
Pixel Bit Depth	8/12 bits
Background Subtraction	User activated
Trigger	• Internal Software • Hardware Falling or Rising Edge • Trigger Delay 0.015ms - 4.0 sec
Pan & Tilt knobs	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 i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766
Interface	USB 3.0, Windows 7/8/10 (32 & 64 bit)
Operating Temperature	0° – 35° C

Ordering Information

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





Dimensions are in mm.