Laser Analyzing Electronic Autocollimator

Binding two technologies into one instrument 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.

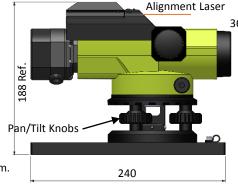
Built-in computer controlled laser pointer for easy alignment.

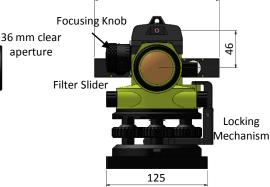
Built-in Pan & Tilt adjusting mechanics.

Specifications		Spectral Response	350 - 1310 nm (Telescope Mode) VIS 400-700 nm, NIR User specified
	Iowa s L	Resolution (H x V pixels)	1920 x 1200
Laser Type	CW & Pulsed	Gain Control	x24
FoV Autocollimator	±40' (H) x ±25' (V)	Dynamic Range	60 dB , 12 bit
FoV Telescope & Beam Profiler	±1°20′ (H) x ±50′ (V)	Exposure Speed	39 μsec to 20 sec
		Frame Rate	40 fps (8 bit) 30 fps (12 bit)
Clear Aperture	36 mm	Beam divergence accuracy	±2%
Autocollimator's Resolution	0.01 sec		
Autocollimator's Accuracy	1.0 sec	Position resolution of laser beam	Better than 2.5 μrad
Light Source	LED- 650, optional: 1060. Special order: 1310 nm	Pixel Size	5.86 μm x 5.86 μm
Retro-reflector for alignment	Ø64 mm, N.W 280 g	Background Subtraction	User activated
Beam Divergence Measurements	Thread Ø16 mm, <5" Down to 0.2 mRad or better	Trigger	Internal SoftwareHardware Falling or Rising EdgeTrigger Delay 0.015ms - 4.0 sec
Line of Sight Retention as Function of Focusing	+/- 2.5 seconds	Power Requirements	~2 Watt (Via USB 3.0 interface)
		Dimensions (L x W x H)	240 x 154 x 190 mm
Min. Focusing Distance	Less than 17.5 cm	Weight (typical)	3 kg including cable
Built in coarse aiming Laser	638 nm power <1.0 mW	Interface	USB 3.0, Windows 10 (32 & 64 bit)
Pointer	Class 2 laser product, IEC60825-1	Operating Temperature	0° – 35° C
Beam width resolution	Better than 2.5 μrad		154 Ref

Ordering Information

Model EAC-1012-L19: 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.

DUMA OPTRONICS LTD.





Tel: 0755-84870203 www.highlightoptics.com

 $\hbox{E-mail: sales@highlightoptics.com}$