

Electronic Autocollimator LA100-E

A precise USB 3.0 Autocollimator combining the functionality of Autocollimation with a large input aperture of 100 mm



- High resolution of down to 0.01 arc sec or 0.05 μ rad, with clear aperture exceeding 100 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	$\pm 17.2'$ (H) x $\pm 10.3'$ (V) ± 5 (H), ± 3 (V) [mrad]
FoV Telescope & Beam Profiler	$\pm 34.4'$ (H) x $\pm 20.6'$ (V) ± 10 (H), ± 6 (V) [mrad]
Clear Aperture	100 mm
Autocollimator's Resolution	0.01 sec
Autocollimator's Accuracy	0.5 sec
Light Source	LED- 650 Optional: 1060
Retro-reflector for alignment	$\varnothing 64$ mm, N.W 280 g Thread $\varnothing 16$ mm, <5"
Min. Focusing Distance	Focused at Infinity
Built in coarse aiming Laser Pointer	638 nm power <1.0 mW Class 2 laser product, IEC60825-1
Spectral Response	350 - 1100 nm (Beam Analysis)
Resolution (H x V pixels)	1920 x 1200 sensor can be divided into multiple active areas, working in parallel for up to 400 sectors (NEW)

Gain Control	1-400x
Dynamic Range	60 dB, 12 bit
Exposure Speed	32 μ sec to 2 sec
Frame Rate	30 fps – up to 550 fps@ fast mode (NEW)
Pixel Size	5.86 μ m x 5.86 μ m
Background Subtraction	User activated
Trigger	<ul style="list-style-type: none"> • Internal Software • Hardware Falling or Rising Edge • Trigger Delay 0.015ms - 4.0 sec
Pan & Tilt knobs	Tilt $\pm 2^\circ$, Pan $\pm 2.5^\circ$
Power Requirements	~2 Watt (Via USB 3.0 interface)
Dimensions (L x W x H) in mm	634 x 184 x 208
Weight (typical)	5 kg
Min. Hardware Requirements	CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766
Interface	USB 3.0, Windows 11 (32 & 64 bit)
Operating Temperature	0° – 35° C

Laser Alignment Accessory	Offsetting alignment laser to coincide with aperture center
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Ordering Information

EAC-LA100-E: Complete system including a collimator unit with USB3.0 CCD camera, software on CD/Flash and a retro-reflector for infinity adjustment.

Accessories

LAA-65: Offsetting laser device.

DUMA OPTRONICS LTD.

Website: <http://www.dumaoptronics.com>

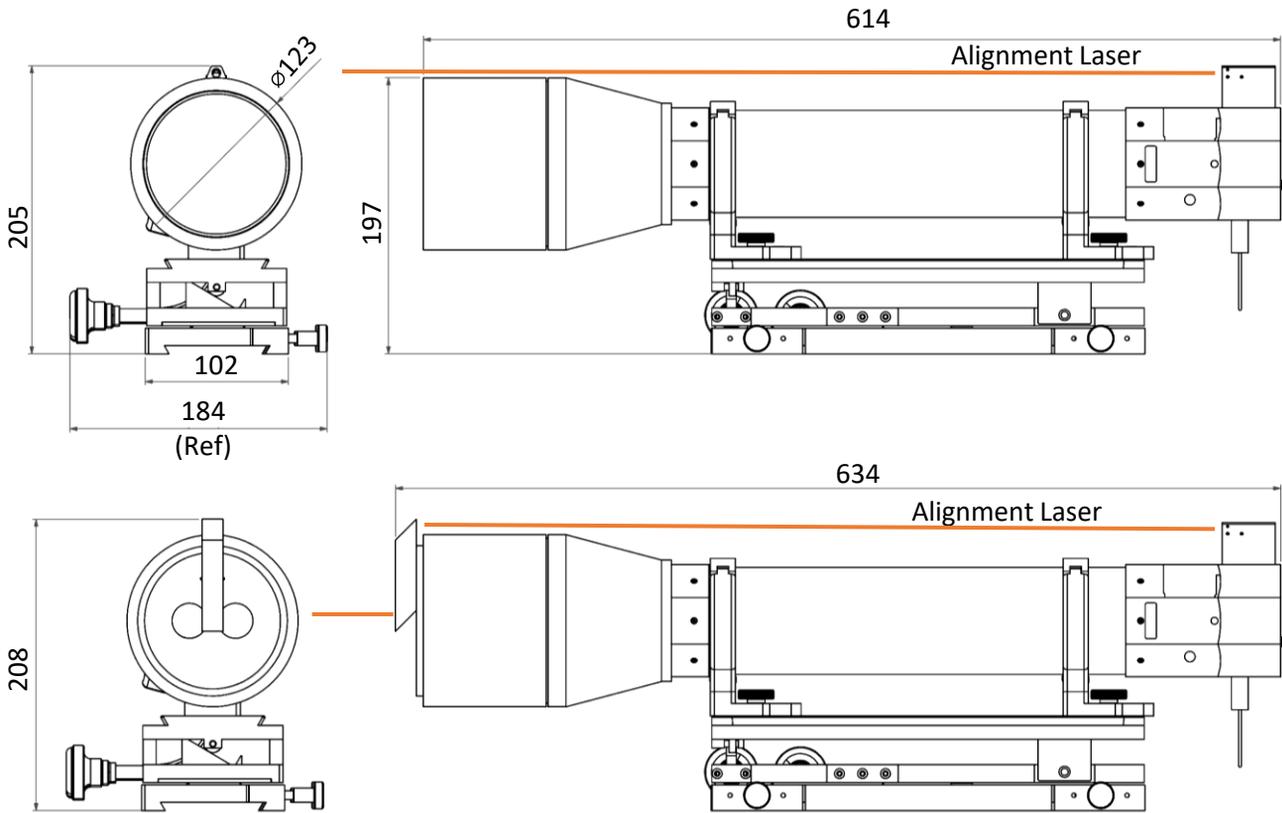
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Dimensions are in mm.

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