

Wide FOV Electronic Autocollimator

Extreme Resolution with Wide Field of View



- Precise USB3.0 device combining the functionality of autocollimator and alignment telescope.
- High resolution of down to 0.01 arc sec or 0.05 μ rad, with clear aperture exceeding 45 mm.
- Built-in computer controlled laser pointer for easy alignment.
- Built-in Pan & Tilt adjusting mechanics.

Specifications

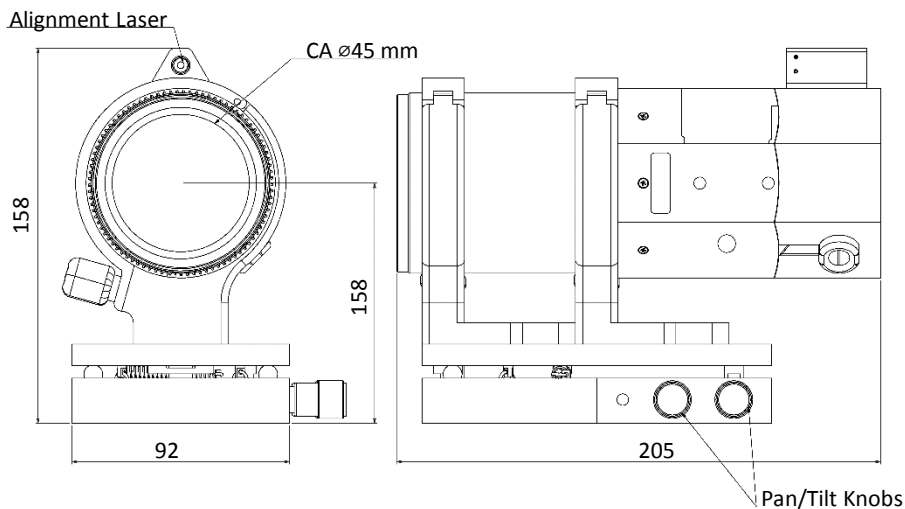
FoV Autocollimator	$\pm 45'$ (V) x $\pm 1^{\circ}10'$ (H)
FoV Telescope & Beam Profiler	$\pm 1^{\circ}30'$ (V) x $\pm 2^{\circ}20'$ (H)
Clear Aperture	45 mm
Autocollimator's Resolution	0.01 sec
Autocollimator's Accuracy	1.0 sec
Light Source	LED- 650, optional: 1060, RGB. Special order: 1310 nm nm
Retro-reflector 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 - 1310 nm (Telescope Mode)
Resolution (H x V pixels)	1920 x 1200
Gain Control	x24
Dynamic Range	60 dB , 12 bit
Exposure Speed	39 μ sec to 20 sec
Frame Rate	40 fps (8 bit)
Pixel Size	5.86 μ m x 5.86 μ m
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	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	205 x 92 x 158
Weight (typical)	3.7 kg
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 $^{\circ}$ – 35 $^{\circ}$ C

Ordering Information

Model EAC-FOV: Complete system including a collimator unit with USB 3.0 camera, cable, retroreflector for infinity adjustment, application software on Flash Drive, carrying case.

Dimensions are in mm.



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January 2020