

Electronic Autocollimator XR

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 0.005 arcsec, with clear aperture of 36 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	±26' (H) x ±19.5' (V)
FoV Telescope & Beam Profiler	±52' (H) x ±39' (V)
Clear Aperture	36 mm
Autocollimator's Resolution	0.005 sec
Autocollimator's Accuracy	1.0 sec
Light Source	LED: 670 nm Switchable RGB Switchable RG/IR Special order: 1060 nm
SWIR IR Version	1300 nm
Retro-reflector for alignment	∅38 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 (19-XR)	350 - 1100 nm (Telescope Mode)
Spectral Response (19-XR/SWIR-IR)	350 - 1300 nm (Telescope Mode)

Resolution (H x V pixels)	2056 x 1542 sensor can be divided into multiple active areas, working in parallel for up to 400 sectors (NEW)
Gain Control	x24
Dynamic Range	60 dB , 12 bit
Exposure Speed	24 µsec up to 30 sec
Frame Rate	57 fps (12 bit) – up to 550 fps@ fast mode (NEW)
Sensor type	Proprietary CMOS
Pixel Bit Depth	12 bits
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	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 768
Interface	USB 3.0, Windows 10/11 (32 & 64 bit)
Operating Temperature	0° – 35° C

DUMA OPTRONICS LTD.

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

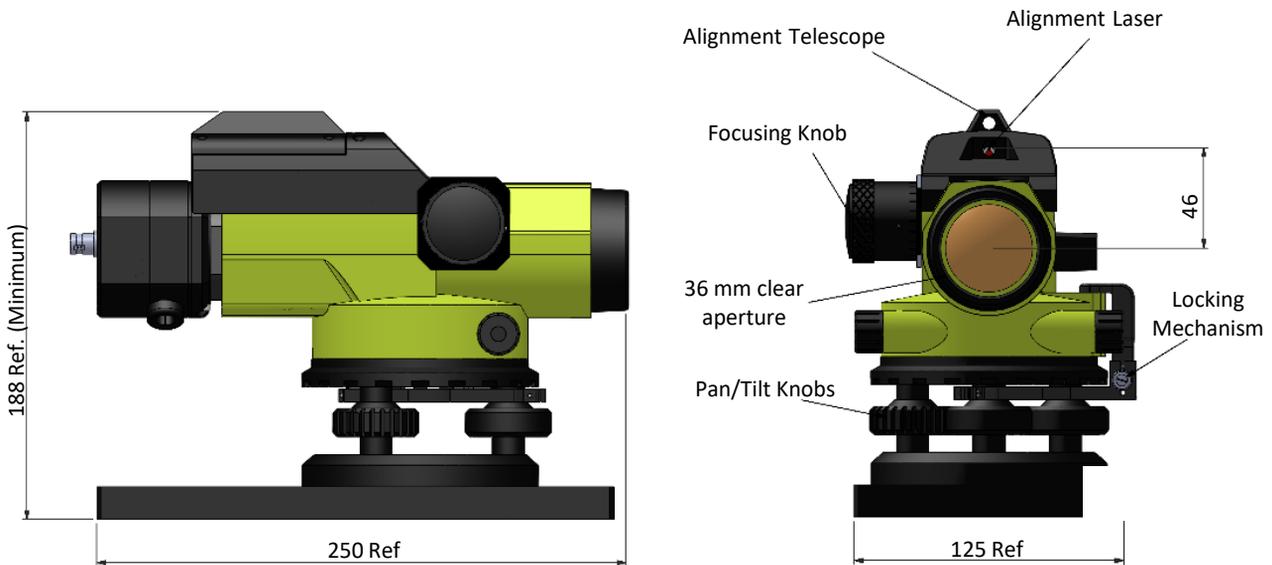
E-mail: sales@duma.co.il

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Dimensions are in mm.

Ordering Information

EAC-1012-19-XR:

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

EAC-1012-19-XR/SWIR-IR:

Complete system including SWIR/IR capability 1300 nm and a retroreflector, USB3.0 camera, software on CD and a retro-reflector for infinity adjustment.

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