PLX Electronic Autocollimator – ACT-HR100



ACT-HR100 High Accuracy – Large Aperture Electronic Autocollimator

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



PLX Autocollimator

ACT-HR100 High Accuracy – large Aperture Electronic Autocollimator

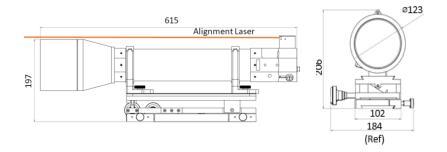
ACT-25B Electronic Autocollimator

ACT-25FO Autofocusing Electronic Autocollimator

ACT-HR High-Resolution Electronic Autocollimator

ACT-WF Wide-Field Electronic Autocollimator

ACT-HR100 High-Accuracy – Large Aperture Autocollimator



ACT-HR100:

- High resolution of down to 0.01 arc sec or 0.05 μrad, 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.

Software

All PLX autocollimators come with software, and the software automatically displays angle deviation and can give the relative position of multiple targets.

Data logging is supported and can be configured to record for a predetermined time or a fixed number of data points. The recording interval can also be set. The data can be saved to a file or streamed to a remote location via RS-232 or TCP/IP. The communication setting for both RS-232 and TCP/IP is fully configurable from the software.

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Product Datasheet

PLX Electronic Autocollimator – ACT-HR100



ACT-HR100 Specifications

FoV Autocollimator ±17.2' (H) x ± 10.3' (V) ±5 (H), ±3 (V) [mrad] FoV Telescope & Beam Profiler ±34.4' (H) x ± 20.6' (V) ±10 (H), ±6 (V) [mrad] Clear Aperture 100 mm Autocollimator's Accuracy 0.5 sec Light Source LED- 650 Optional: 1060, RGB Retroreflector For Alignment \$\frac{\pi_6}{2}\text{Min. Focusing Distance}\$ Built in coarse aiming Laser Pointer Gas mn power < 1.0 mW Class 2 laser product, IEC60825-1 Spectral Response Resolution (H x V pixels) \$\frac{\pi_90 \text{ 1100 nm}}{\pi_80 \text{ 1200 nm}}\$ \$\frac{\pi_80 \text{ 1200 nm}}{\pi_8	Specification	Value
FoV Telescope & Beam Profiler ±34.4′ (H) x ± 20.6′ (V) ±10 (H), ±6 (V) [mrad] Clear Aperture 100 mm Autocollimator Resolution 0.01 sec Autocollimator's Accuracy LED- 650 Optional: 1060, RGB Retroreflector For Alignment ### ### ### ### ### ### ### ### ### #	FoV Autocollimator	±17.2′ (H) x ± 10.3′ (V)
to (H), ± 6 (V) [mrad] Clear Aperture 100 mm Autocollimator Resolution 0.01 sec Light Source LED-650 Optional: 1060, RGB Retroreflector For Alignment ### Alignment #### Alignment ### Alignment #### Alignment ##### Alignment ##### Alignment ##### Alignment ##### Alignment ##### Alignment ##### Alignment ###### Alignment ###################################		± 5 (H), ± 3 (V) [mrad]
Clear Aperture Autocollimator Resolution O.01 sec O.5 sec Light Source LED- 650 Optional: 1060, RGB Retroreflector For Alignment Min. Focusing Distance Built in coarse aiming Laser Pointer Class 2 laser product, IEC60825-1 Spectral Response Resolution (H x V pixels) Spectral Response Resolution (H x V pixels) Gain Control Tx - 24x Dynamic Range God B, 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate Pixel Size Sakeynund Subtraction User activated Objective Aperture Trigger Autocollimator Accessory Weight (typical) Fixel Size Size Size Size Size Size Size Size	FoV Telescope & Beam Profiler	
Autocollimator Resolution Autocollimator's Accuracy Light Source Light Source Retroreflector For Alignment Min. Focusing Distance Built in coarse aiming Laser Pointer Class 2 laser product, IEC60825-1 Spectral Response Resolution (H x V pixels) Spectral Response Resolution (H x V pixels) Gain Control Dynamic Range Go db , 12 bit Exposure Speed Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size Background Subtraction User activated Objective Aperture Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Power Requirements CPU 13 1.6 GHz, 4 GB RAM Min. Hardware Requirements CPU 33 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface O° -35° C Optional: 1060, RGB Descriptional: 1060, RGB Descriptional: 1060, RGB Descriptional: 1060, RGB Descriptional: 1060, RGB Doptional: 1060, RGB Doptional: 1060, RGB Descriptional: 1060, RGB Doptional: 1060, RGB Doptional: 1060, RGB Descriptional: 1060, RGB Doptional: 1060, RGB Doptional: 1060, RGB Descriptional: 1060, RGB Doptional: 1060, RGB Dimensional: 1060, RG Dimensional: 1060, R Dimensional		± 10 (H) , ± 6 (V) [mrad]
Autocollimator's Accuracy Light Source LED- 650 Optional: 1000, RGB Retroreflector For Alignment Ø64 mm, N.W 280 g Thread Ø16 mm, <5" Min. Focusing Distance Focused at Infinity G38 nm power <1.0 mW Class 2 laser product, IEC60825-1 Spectral Response 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 1x - 24x Dynamic Range 60 dB , 12 bit Exposure Speed 79 µsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Min. Hardware Requirements (PU is 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Clear Aperture	100 mm
Light Source Retroreflector For Alignment Retroreflector For Alignment Pocused at Infinity Built in coarse aiming Laser Pointer Spectral Response Resolution (H x V pixels) Gain Control Dynamic Range Exposure Speed Frame Rate Background Subtraction Objective Aperture Trigger Pan & Tilt knobs Power Requirements Dimensions (L x W x H) in mm Weight (typical) Min. Resolution 136 Ag Manner Laser Pointer Default Min. Resolution 126 Ag Manner Laser Pointer Dytes of Commands Defection (H x V pixels) Power Requirements O' - 35° C Laser Alignment Accessory Diffecting alignment laser to coincide Diffecting alignment laser to coincide Diffecting alignment laser to coincide	Autocollimator Resolution	0.01 sec
Optional: 1060, RGB Retroreflector For Alignment #64 mm, N.W 280 g Thread #26 mm, <5" Min. Focusing Distance Built in coarse aiming Laser Pointer 638 nm power <1.0 mW Class 2 laser product, IEC60825-1 Spectral Response 850 - 1100 nm (Telescope Mode) 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 1x − 24x Dynamic Range 60 dB, 12 bit Exposure Speed 39 μsec to 20 sec Frame Rate 30 fps − up to 550 fps@ fast mode (NEW) Pixel Size Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt Ł2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Min. Resolution 1366 x 766 Interface 0° − 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Autocollimator's Accuracy	0.5 sec
Retroreflector For Alignment Min. Focusing Distance Built in coarse aiming Laser Pointer G38 nm power <1.0 mW Class 2 laser product, IEC60825-1 Spectral Response 350 - 1100 nm (Telescope Mode) 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 1x − 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps − up to 550 fps@ fast mode (NEW) Pixel Size Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Min. Resolution 1366 x 766 Interface 0° − 35° C Offsetting alignment laser to coincide	Light Source	LED- 650
Thread Ø16 mm, <5" Min. Focusing Distance Built in coarse aiming Laser Pointer 638 nm power <1.0 mW Class 2 laser product, IEC60825-1 Spectral Response 350 - 1100 nm (Telescope Mode) 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 1x − 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps − up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements 10 Weight (typical) Skg Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° − 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		Optional: 1060, RGB
Min. Focusing Distance Built in coarse aiming Laser Pointer 638 nm power <1.0 mW Class 2 laser product, IEC60825-1 Spectral Response 850 - 1100 nm (Telescope Mode) 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 1x − 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps − up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements 2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) S kg Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° − 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Retroreflector For Alignment	ø64 mm, N.W 280 g
Built in coarse aiming Laser Pointer Class 2 laser product, IEC60825-1 Spectral Response 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 1x - 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size Background Subtraction User activated Objective Aperture Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt ±2°, Pan ±2.5° Power Requirements 2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Nin. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		Thread Ø16 mm, <5"
Class 2 laser product, IEC60825-1 Spectral Response 350 - 1100 nm (Telescope Mode) 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 1x - 24x Dynamic Range 60 dB, 12 bit Exposure Speed 39 μsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size 5.86 μm x 5.86 μm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 Laser Alignment Accessory Offsetting alignment laser to coincide	Min. Focusing Distance	Focused at Infinity
Spectral Response 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 1x - 24x Dynamic Range 60 dB, 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements 20 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Built in coarse aiming Laser Pointer	638 nm power <1.0 mW
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 1x - 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		Class 2 laser product, IEC60825-1
sensor can be divided into multiple active areas, working in parallel for up to 400 sectors (NEW) Gain Control 1x - 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Yia USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) S kg Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Spectral Response	350 - 1100 nm (Telescope Mode)
active areas, working in parallel for up to 400 sectors (NEW) Gain Control 1x – 24x Dynamic Range 60 dB , 12 bit Exposure Speed 39 μsec to 20 sec Frame Rate 30 fps – up to 550 fps@ fast mode (NEW) Pixel Size 5.86 μm x 5.86 μm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Resolution (H x V pixels)	1920 x 1200
to 400 sectors (NEW) Gain Control 1x - 24x Dynamic Range 60 dB, 12 bit Exposure Speed 39 µsec to 20 sec Frame Rate 30 fps - up to 550 fps@ fast mode (NEW) Pixel Size 5.86 µm x 5.86 µm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		sensor can be divided into multiple
Gain Control1x – 24xDynamic Range60 dB , 12 bitExposure Speed39 μsec to 20 secFrame Rate30 fps – up to 550 fps@ fast mode (NEW)Pixel Size5.86 μm x 5.86 μmBackground SubtractionUser activatedObjective ApertureM72 x 0.75 mmTriggerInternal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 secPan & Tilt knobsTilt ±2°, Pan ±2.5°Power Requirements~2 Watt (Via USB 3.0 interface)Dimensions (L x W x H) in mm635 x 184 x 208Weight (typical)5 kgMin. Hardware RequirementsCPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766Interface0° – 35° CLaser Alignment AccessoryOffsetting alignment laser to coincide		active areas, working in parallel for up
Dynamic Range Exposure Speed 39 μsec to 20 sec 30 fps – up to 550 fps@ fast mode (NEW) Pixel Size 5.86 μm x 5.86 μm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) S kg Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		to 400 sectors (NEW)
Exposure Speed Frame Rate 30 fps – up to 550 fps@ fast mode (NEW) Pixel Size 5.86 μm x 5.86 μm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Gain Control	1x – 24x
Frame Rate 30 fps – up to 550 fps@ fast mode (NEW) Pixel Size 5.86 μm x 5.86 μm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Dynamic Range	60 dB , 12 bit
Pixel Size 5.86 μm x 5.86 μm Background Subtraction User activated Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements ~2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Exposure Speed	39 μsec to 20 sec
Background Subtraction Objective Aperture M72 x 0.75 mm Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) S kg Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Frame Rate	30 fps – up to 550 fps@ fast mode (NEW)
Objective Aperture Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 x 184 x 208 Weight (typical) S kg Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Pixel Size	5.86 μm x 5.86 μm
Trigger Internal Software Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Background Subtraction	User activated
Hardware Falling or Rising Edge Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Objective Aperture	M72 x 0.75 mm
Trigger Delay 0.015ms - 4.0 sec Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° - 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Trigger	Internal Software
Pan & Tilt knobs Tilt ±2°, Pan ±2.5° Power Requirements "2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		Hardware Falling or Rising Edge
Power Requirements ~2 Watt (Via USB 3.0 interface) Dimensions (L x W x H) in mm 635 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 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide		Trigger Delay 0.015ms - 4.0 sec
Dimensions (L x W x H) in mm 635 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 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Pan & Tilt knobs	Tilt ±2°, Pan ±2.5°
Weight (typical)5 kgMin. Hardware RequirementsCPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766Interface0° – 35° CLaser Alignment AccessoryOffsetting alignment laser to coincide	Power Requirements	~2 Watt (Via USB 3.0 interface)
Min. Hardware Requirements CPU i3 1.6 GHz, 4 GB RAM Min. Resolution 1366 x 766 Interface 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Dimensions (L x W x H) in mm	635 x 184 x 208
Min. Resolution 1366 x 766 Interface 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Weight (typical)	5 kg
Interface 0° – 35° C Laser Alignment Accessory Offsetting alignment laser to coincide	Min. Hardware Requirements	CPU i3 1.6 GHz, 4 GB RAM
Laser Alignment Accessory Offsetting alignment laser to coincide		Min. Resolution 1366 x 766
	Interface	0° – 35° C
with aperture center	Laser Alignment Accessory	Offsetting alignment laser to coincide
		with aperture center