



AngleMeter U3

Monitoring Laser Beam Deviations



- Simultaneous measurements of multiple beams' directions and their relative angular positions
- Analyzes angular directions (θ_x θ_y) of collimated beams
- Versatile – Measures Power and Angular incoming direction
- Optional: Complete test station with built-in Pan & Tilt Mechanics
- Extremely accurate
- Monitoring of moving optical devices, such as gimbaled cameras and seekers

Specifications

	25 mm	50 mm
Field of View	$\pm 12^\circ$ (H) x $\pm 8^\circ$ (V)	$\pm 6^\circ$ (H) x $\pm 4^\circ$ (V)
Clear Aperture	17 mm	27 mm
Beam Divergence Measurements	Down to 0.8 mRad or better	Down to 0.5 mRad or better
Position resolution of laser beam	Better than 7.5 μ rad	Better than 5 μ rad
Beam width resolution	Better than 15 μ rad	Better than 10 μ rad
Built in coarse aiming Laser Pointer	638 nm power <1.0 mW Class 2 laser product, IEC60825-1	
Spectral Response	350 – 1310, in several bands VIS 400-700, IR 700-1100 & 1100-1310	
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) 30 fps (12 bit)
Sensor type	Proprietary CMOS
Pixel Size	5.86 μ m x 5.86 μ m
Pixel Bit Depth	8/12 bits
Background Subtraction	User activated
Objective Aperture	M72 x 0.75 mm
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	187 x 116 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° – 35° C

Ordering Information

ANGLE-25mm-U3: A Complete system with USB 3.0 camera, FOV $\pm 12^\circ$ x $\pm 8^\circ$, cable, retroreflector for infinity adjustment, application software on Flash Drive, carrying case.

ANGLE-50mm-U3: A Complete system with USB 3.0 camera, FOV $\pm 6^\circ$ x $\pm 4^\circ$, cable, retroreflector for infinity adjustment, application software on Flash Drive, carrying case.

Pan & Tilt Table: Optional Accessory – Adjusting mechanics Tilt $\pm 2^\circ$ Pan $\pm 2.5^\circ$ (148 x 92 x 35 mm, 1.6 kg)

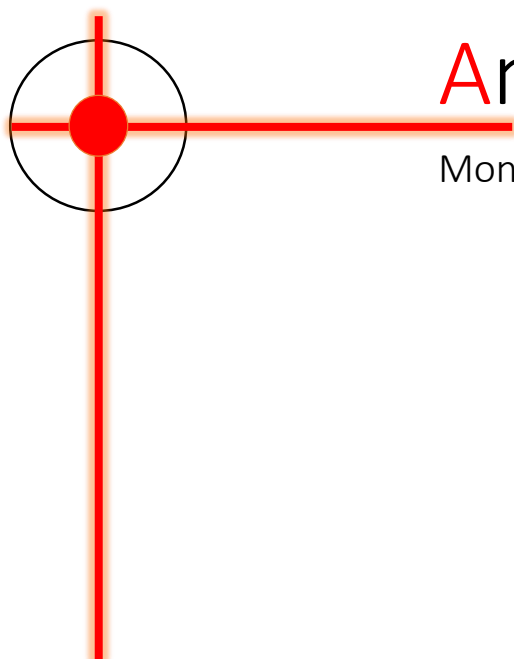
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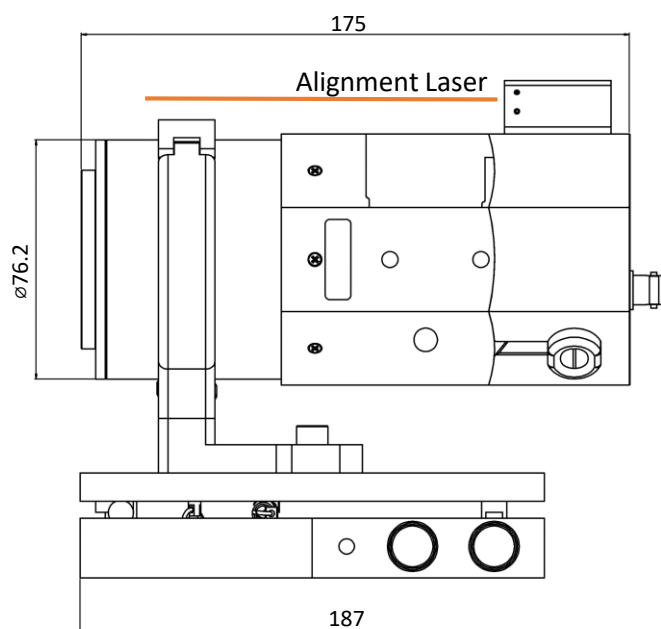
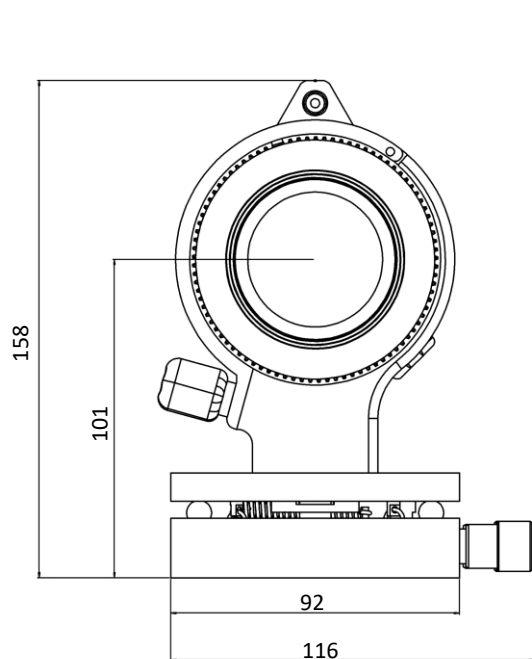
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Note: The Pan & Tilt table shown is not included in the basic product configuration

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