

AlignMeter measurement specifications

The AlignMeter head is composed of two PSD's, beam splitter and lens assembly.

PSD size	9mmx9mm (Standard)	4mmx4mm (Optional)
Type	Dual-axis Si resin, no glass cover	
Usable beam size range	50µm to Ø8mm	50µm to Ø3mm
Update rate	Max 150Hz at 500Hz digital filter	
Spectral range	350-1100nm	
Position measurement range	8mm dia circle max	3mm dia circle max
Power range	10µW-10mW with filters	
Power accuracy (*)	±5%	
Lens type	Plano convex achromat, A/R coated	
Beam splitter	50:50 A:R coated, non-polarized	
Temperature range	0°C - 35°C	
Optional accessories	ND filters, Hood	

(*) To maintain full calibration accuracy, attenuating optical filter (ND) may be necessary for operation with beams greater than 1mW per PSD @ 633nm

AlignMeter – 50 specifications

Lens focal length	50mm
Position resolution	Down to 0.1µm at 50Hz digital filter+Averaging
Position accuracy	±15µm edge-to-edge (±8µm)
Angle measurement range	180 mRad (90 mRad)
Angle resolution	0.02 mRad (0.01 mRad)
Angle accuracy	0.5 mRad edge-to-edge (0.01 mRad)
Weight	140 Gr. Excluding cables

AlignMeter – 100 specifications

Lens focal length	100mm
Position resolution	Down to 0.1µm at 50Hz digital filter+Averaging
Position accuracy	±15µm edge-to-edge (±8µm)
Angle measurement range	80 mRad (40 mRad)
Angle resolution	0.01 mRad (0.006 mRad)
Angle accuracy	0.25 mRad edge-to-edge (0.15 mRad)
Weight	180 Gr. Excluding cables

Note: all values (in parentheses) refer to 4x4mm PSD version