

PMT[®] ALPHA

Measuring ScanArm



- ▶ Internal counterbalance
- ▶ Dual high performance batteries
- ▶ Perfect equi-arm design
- ▶ High-Speed WiFi performance
- ▶ Aerospace grade carbon-fiber material

ALPHA[®] axis accuracy specifications

Contact Measurement(Arm)		
Measurement Range	P Model	
	6 Axis	7 Axis
1.5m	0.012mm	—
2.0m	0.016mm	0.018mm
2.5m	0.018mm	0.020mm
3.0m	0.026mm	0.032mm
3.5m	0.036mm	0.045mm
4.0m	0.045mm	0.055mm
4.5m	0.055mm	0.065mm

Non-Contact Measurement (ScanArm)		
Measurement Range	P Model	
	HD	SD
2.0m	0.038mm	0.043mm
2.5m	0.042mm	0.048mm
3.0m	0.055mm	0.060mm
3.5m	0.065mm	0.070mm
4.0m	0.080mm	0.085mm
4.5m	0.092mm	0.098mm

ALPHA[®] axis accuracy specifications

Contact Measurement(Arm)		
Measurement Range	M Model	
	6 Axis	7 Axis
1.5m	0.018mm	—
2.0m	0.020mm	0.022mm
2.5m	0.023mm	0.027mm
3.0m	0.034mm	0.042mm
3.5m	0.043mm	0.055mm
4.0m	0.052mm	0.065mm
4.5m	0.061mm	0.073mm

Non-Contact Measurement (ScanArm)		
Measurement Range	M Model	
	HD	SD
2.0m	0.040mm	0.048mm
2.5m	0.045mm	0.051mm
3.0m	0.060mm	0.065mm
3.5m	0.076mm	0.080mm
4.0m	0.088mm	0.093mm
4.5m	0.102mm	0.112mm

- ▶ All values represent MPE (Maximum Permissible Error)
- ▶ Contact Measurement (Arm): In accordance with ISO 10360-12

ALPHA[®] 6 axis accuracy specifications

Measurement Range	E Model
1.5m	0.028mm
2.0m	0.030mm
2.5m	0.035mm
3.0m	0.055mm
3.5m	0.075mm
4.0m	0.090mm
4.5m	0.112mm

Complies with the following EC Directives:
 2014/53/EU Radio Equipment Directive;
 2014/32/EU Measuring Instruments Directive;
 Shock and Vibrations Testing per International
 Electrotechnical Commission (IEC) Standard:
 IEC 60068-2-6;
 Extreme Temperature Cycling (-20°C to 60°C).
 Based on: IEC 60068-2-1.











Laser Line Probe Specifications

Item	HD	SD
Accuracy	±20µm	±30µm
Repeatability	25µm, 2σ	30µm, 2σ
Stand-off	115mm	
Depth of Field	115mm	
Effective Scan Width	Near Field 80 mm; Far Field 150 mm	
Points Per Line	Maximum 4,000 points/line	2,000 points/line
Minimum Point Spacing	15µm	35µm
Scan Rate	1.2 Million Points Per Second	
Laser	Class 2	
Weight	485g	

▶ Accuracy and Repeatability Specified at Full Field of View (FOV)

Arm Hardware Specifications

-  **Operating temp range :** 0°C - 40°C (32°F - 104°F)
-  **Temperature rate :** 3°C/5min (37.4°F/5min)
-  **Operating humidity range :** 0 - 95%, non-condensing
-  **Power supply :** Universal worldwide voltage;
100-240VAC; 50/60Hz
-  **Battery life:** Standby mode 8h+, normal mode 5h+(1 piece);
Standby mode 16h+, normal mode 10h+(2 pieces)
-  **Data transmission mode :** USB or Wi-Fi
-  **Weight (range) :** 8.8kg to 10.6kg

Exclusive Sales & Service Partner

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