

# PMT<sup>®</sup> ALPHA<sup>ε</sup>

## MEASURING ARM



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

## ALPHA<sup>®</sup> 6 axis accuracy specifications

Measurement Range	<sup>1</sup> SPAT	<sup>2</sup> E <sub>UNI</sub>	<sup>3</sup> P <sub>SIZE</sub>	<sup>4</sup> P <sub>FORM</sub>	<sup>5</sup> L <sub>DIA</sub>
1.5m	0.028mm	0.036mm	0.015mm	0.029mm	0.038mm
2.0m	0.030mm	0.040mm	0.018mm	0.035mm	0.041mm
2.5m	0.035mm	0.045mm	0.020mm	0.038mm	0.050mm
3.0m	0.055mm	0.065mm	0.028mm	0.045mm	0.080mm
3.5m	0.075mm	0.080mm	0.035mm	0.058mm	0.098mm
4.0m	0.090mm	0.100mm	0.044mm	0.068mm	0.116mm
4.5m	0.112mm	0.120mm	0.048mm	0.086mm	0.128mm



► All values represent MPE (Maximum Permissible Error)

► Contact Measurement (Arm): In accordance with ISO 10360-12

<sup>1</sup> SPAT Single Point Articulation Test

<sup>2</sup> E<sub>UNI</sub> Distance Error between two points comparing measured versus nominal values

<sup>3</sup> P<sub>SIZE</sub> Sphere Probing Size Error comparing measured versus nominal values

<sup>4</sup> P<sub>FORM</sub> Sphere Probing Form Error

<sup>5</sup> L<sub>DIA</sub> Sphere Location Diameter Error (Diameter of the spherical zone containing the centers of a sphere measured from multiple orientations)

## Arm Hardware Specifications



**Operating temp range :** 5°C - 40°C (41°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:** 5h+ for one battery; 10h+ for two batteries ( base on contact measurement )



**Data transmission mode :** USB or Wi-Fi



**Weight (range) :** 8.8kg to 10.6kg

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;

