

# AT500 Technical Specifications

## Measurement range

(3D) 0.8 to 160 m

(6D) 1.6 to 12m

## General Information

Tracker size/weight

477 x 261 x 238 mm/13.6 kg

Controller size/weight

built-in controller, 0 kg

Laser class

Class 2 Laser Product in accordance with IEC 60825-1 Second Edition (2014-05)

Overview Camera

5MP/10-degree FOV

PowerLock Range

80m

ISO 17025 certified

✓

Field of View (Vertical/Horizontal)

±145°/360°

## Environmental

Operating temperature

-15°C to +50°C

Relative humidity

max. 95% non-condensing

Operating elevation

-700 m to +5500 m

Dust/water

IP54

## Interface

Cable

Cat5e

Wireless

WLAN (IEEE 802.11n)

## Power Management

Battery type

Lithium-ion battery/swappable

Typical battery runtime (single charge)

6 hours

Data output

100 Hz

Mains

AC power supply

## B-Probe plus

Size/weight

230 x 80 x 54 mm / 0.14 kg

Battery type

2 x AAA (NiMH) / swappable

Typical battery runtime (single charge)

> 6 hours

## Probing accuracies

Probing Size <sup>1</sup>

±100 μm

<sup>1</sup> According to ISO 10360-10 - measured at 2 m.

## AT500 Accuracy Specifications

### Angular performance (location test)

Measurement Distance	Typical	MPE
5 m	±23 μm	±45 μm
10m	±38 μm	±75 μm
20 m	±68 μm	±135 μm

### Length Measurement (length test)

Measurement Distance	Typical	MPE
5 m	±32 μm	±64 μm
10m	±53 μm	±106 μm
20 m	±96 μm	±191 μm

### Distance Measurement (ranging test-ADM)

Measurement Distance	Typical	MPE
1.5 to 5 m	±7 μm	±14 μm
1.5 to 10 m	±7 μm	±14 μm
1.5 to 20 m	±7 μm	±14 μm
1.5 to 30 m	±7 μm	±14 μm
1.5 to 40 m	±7 μm	±14 μm
1.5 to 50 m	±7 μm	±14 μm