HEXAGON

Data sheet

Leica Absolute Tracker AT500

Key features

The Leica Absolute Tracker AT500 is designed for unmatched portability and ease of use.

With its fully battery-powered, integrated-controller design, the AT500 is quick to set up and ready for ultra-long-range reflector measurements. This tracker also offers entry-level 6DoF probing with the optional B-Probe^{plus} add-on.

Portable

Production made easy

Built-in controller and single-button operation for quick start measurements.

Integrated hot-swappable batteries

Quick and easy cable-free setup in almost any location.

Built-in connectivity

Connect to control PC by Wi-Fi for completely wireless operation, or even through Bluetooth to a smartphone or tablet with the AT500 Connect App.



Unmatched range and scale

Large volume

Measurement volume up to 320 m in diameter.

Orient-to-gravity function

Allows for measurement with the Z-axis aligned to gravity – ideal for levelling and alignment tasks.

Extended temperature range

Guaranteed functionality in environmental temperatures from -15°C to 50°C.

Easy and accurate

PowerLock

Interrupted line-of-sight automatically re-established with no user interaction.

Portable probing

> Measure hidden points and features with Leica B-Probe^{plus} with no need to carry additional adaptors

> Long styli and punch tool can be used to mark the part

Overview camera

Integrated camera used to control the tracker and find targets remotely.

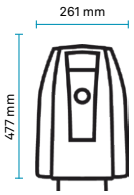
ISO certification

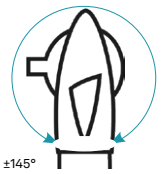
System specified according to ISO 10360-10 in a calibration lab certified according to ISO 17025.

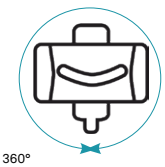
Technical specifications

General information	Tracker size | weight	477 x 261 x 239 mm | 13.6 kg
	Controller size | weight	Built-in controller, 0 kg
	3D measurement range	3D: 0.8 to 160 m 6D: 1.6 to 12 m
	Measurement frequency	100 Hz
	Laser class	Class 2
	Overview camera	5MP
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	Cat6
	Wireless	WLAN (IEEE 802.11n)
Power management	Battery type	Lithium-ion battery | integrated and swappable
	Typical battery runtime (single charge)	6 hours
	Mains	AC power supply
Accuracy	Angular performance $E_{two\text{-}face,MPE}$ [1]	±15 µm + 6 µm/m
	Absolute Distance Meter eADM[1]	±10 µm + 0.3 µm/m
	Length measurement $E_{distance,MPE}$ [1]	±21 µm + 8.5 µm/m
	Length measurement using B-Probe^{plus} [1]	± 150 µm
	Inclination sensor	±1.0 arcsec
	Orient to gravity U_z	±15 µm + 8 µm/m

[1] Maximum Permissible Error (MPE) specifications in accordance with ISO 10360-10:2021 using Leica 1.5'' Red Ring Reflectors (RRR).







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