



Essential portability

OT2 Core is a high performance laser tracker that delivers essential laser tracking measurement capability at an affordable price. Its compact size and wireless operation allows the users to apply high accuracy measurement with the convenience of portability and great ease of use.



FEATURES & BENEFITS



Portability and Flexibility

At less than 11 kg, OT2 Core can be mounted in any orientation and fits in a small carry-on case.



Fully Integrated Unit

Station moves are faster with OT2 Core. Integrated controller and cableless operation allows the user to operate in more confined spaces without hazard.



On-Board Wireless Technology

Reduce set-up time and eliminate fuss with OT2 Core's integrated WiFi.



Battery Operation

OT2 Core can measure for up to 5 hours without an AC power source. An external hot-swappable battery can double battery life.



Absolute Distance Measurement (ADM)

OT2 Core is designed with a high-accuracy and high-speed ADM laser that enables rapid beam re-acquisition.



Autolock

With built-in autolock functionality, the OT2 Core will quickly recapture a lost beam and permit seamless measurement in confined spaces.



Virtual Level

The high-accuracy internal level establishes a gravity coordinate frame with just one click.



Environmental Compensation

The OT2 Core's onboard weather station ensures accuracy in different operating conditions from -10° C to 45° C.



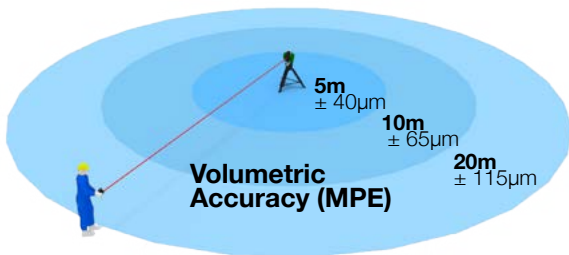
Service and Support

The Automated Precision global team provides consistent support anywhere in the world.

OT2CORE

Wireless Laser Tracker

PRODUCT SPECIFICATIONS [Metric Units]



*Measurement of a ScaleBar per ASME B89.4.19-2006

**Specifications are listed in MPE

***Capable of hot-switching with External battery

Laser Safety: Class II (IEC60825-1)

Range of Measurements

Linear Range (Diameter)	50 m (100 m)
Minimum Measurement Distance	0 m
Azimuth Range	± 320° (640° end to end)
Elevation Range	-59° to 79°
Internal Level Range	± 2°

3D Measurement Performance

Volumetric Accuracy	± 15 µm + 5 µm/m*
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Angular Performance

Axial Angular Accuracy	3.5 µm/m**
Maximum Angular Speed	180° / sec
Maximum Angular Acceleration	180° / sec ²
Internal Level Accuracy	± 2 arcseconds

Linear Performance

Accuracy	± 15 µm or 0.7 µm/m** (whichever is greater)
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Autolock Performance

Field of View	30° (diagonal)
Acquisition Range	2 m to 40 m

Environmental

Operating Temperature	-10° C to 45° C
Relative Humidity	10-95% non-condensing
Altitude	-700 m to 3000 m

Dimensions

Tracker Weight	10.9 kg
Tracker Size	198 x 198 x 430 mm

Internal Controller

Battery Operation	5 hours (typical)***
Communication Protocol	Ethernet WiFi 802.11a/b/g/n

In-Line Distance Measurement

Range	MPE
2 to 5 m	0.015 mm
2 to 10 m	0.015 mm
2 to 20 m	0.015 mm
2 to 50 m	0.034 mm
2 to 80 m	0.055 mm



Scale Bar Measurement

Range	MPE
2 m	0.035 mm
5 m	0.057 mm
10 m	0.092 mm
20 m	0.163 mm
50 m	0.375 mm
80 m	0.587 mm



The **ASME B89.4.19-2006 standard** prescribes a series of tests for evaluating the performance of spherical measurement systems. These values represent the Maximum Permissible Error (MPE) between a verified Scale Bar and the expected performance of the instrument.

