

TRACKPROBE

The TrackProbe 3D probing system, consisting of tracking i-Probe and the latest optical tracker i-Tracker, is designed for metrology-level measurements. It is highly precise, portable, and easy-to-use, which ensures high-quality measurements for parts in large measurement volumes, at long distances, and in harsh conditions.

You can use it for various tasks on the shop floor, such as fixture adjustment, benchmark marking, and geometric and dimensional inspection of engineering machinery. TrackProbe can handle both small and large parts, and has no constraints on the measurement situation.

Extensive Measurement

- Measure parts in a distance of up to 6 meters.
- The tracking distance can be extended and reach 10 meters.
- Measure large-sized parts with high accuracy and excellent performance.

Excellent for Deep Hidden Points

- Measure hidden points or hard-to-reach areas with high accuracy.
- Especially suitable for measuring automotive parts, aviation components, pipelines, holes, and irregular parts.

Flexible and Portable for Free Measurement

- TrackProbe is a handheld probing system.
- Provide both wired and wireless data transfer.
- Automatically unify the coordinate systems of scan data and probing data with 3D software TViewer.

Precise Metrology-grade Results

- Measure the shapes and GD&T of different parts with high accuracy.
- The volume accuracy is 0.089 mm for 49.0 m³, 0.067 mm for 28.6 m³, and 0.049 mm for 10.4m³

Non-stop Measurement and Easy Movement

- i-Probe can measure continuously without the need for i-Tracker to reposition it.
- Only a few markers are needed for i-Tracker to move and continue tracking the i-Probe.

Diverse Uses

- Can be operated in various settings regardless of vibrations, temperature changes, humidity, and lighting.
- Calculate and correct position deviations to achieve high-precision measurements on shop floors or outdoors.
- Deal with complex surfaces, high-precision parts, or large-scale parts without any problem.



Technical Specification

Type		TrackProbe
Volumetric accuracy ⁽¹⁾	10.4 m ³ (Tracking distance 3.5 m)	0.049 mm (0.0019 in)
	28.6 m ³ (Tracking distance 5.0 m)	0.067 mm (0.0026 in)
	49.0 m ³ (Tracking distance 6.0 m)	0.089 mm (0.0035 in)
Measurement distance (per tracker)		Max 10 m (393.7 in)
Part size range (recommended)		0.1 m - 12 m (3.9 in - 472.4 in)
Camera pixel of i-Tracker		25 MP
Dimensions of i-Probe 500		510 × 145 × 89 mm (20.1 × 5.7 × 3.5 in)
Weight of i-Probe 500		700 g (1.54 lb)
Operating temperature range		0–45°C (32°F–113°F)
Operating humidity range (non-condensing)		10 ~ 90% RH
Connection		Wired and wireless
Number of targets		16
Patents		ZL201520680513.1, ZL202210065778.5, ZL202221475584.4, ZL202221766958.8, ZL202320545878.8

(1) Comply with ISO 10360-2 standard.



ELECTRONICA MECHATRONIC SYSTEMS I PVT LTD

- Unit 37 & 44, Electronic Co-operative Estate Pune Satara Road, Pune; Maharashtra 411009
- enquiry@electronicaems.com ; info@electronicaems.com
- 020/24224440/ 24229398/ 24222293/ 24223860