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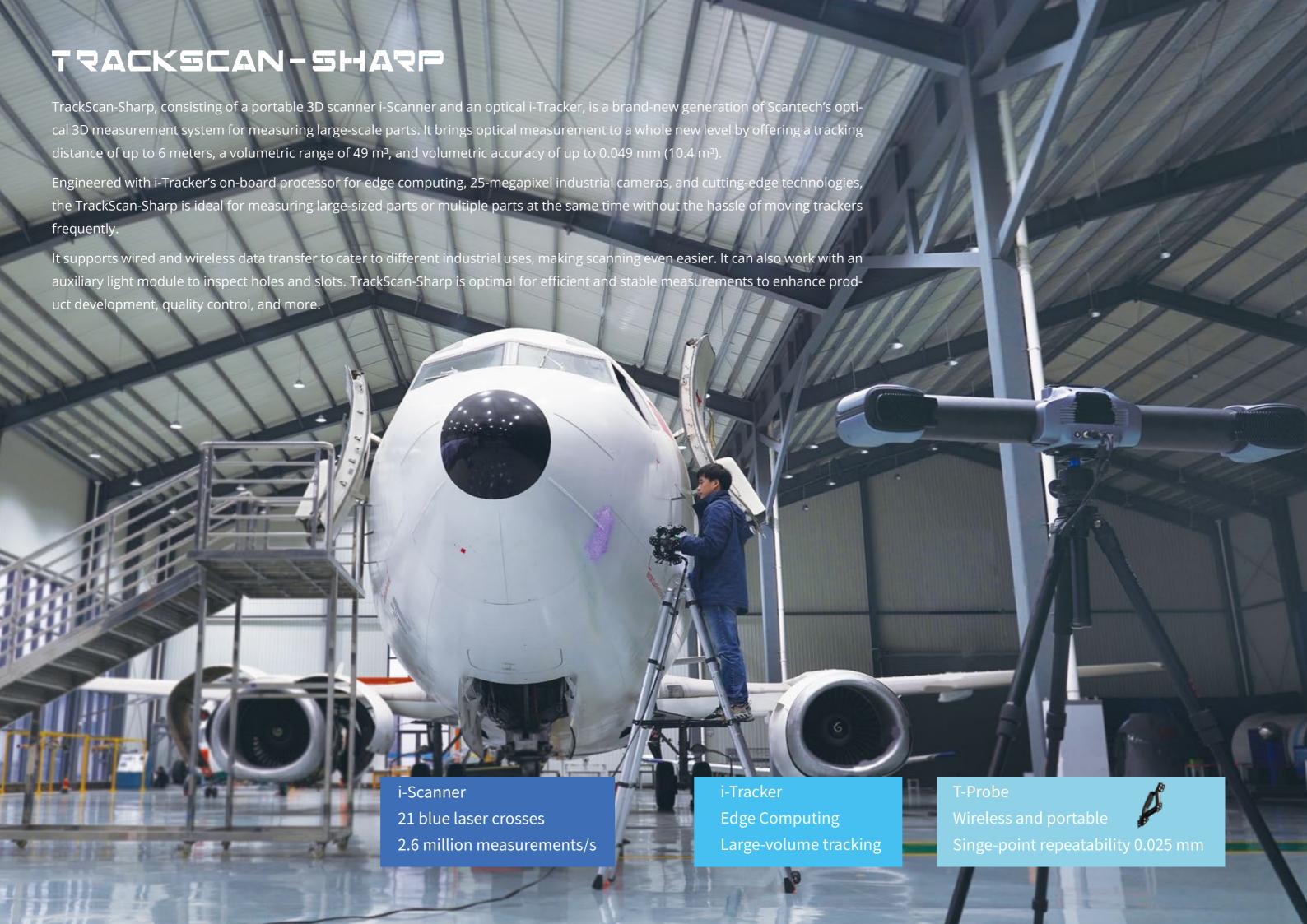


TRACKSCAN-SHARP Optical 3D Measurement System

Extensive Tracking, Accurate Measuring



SCANTECH (HANGZHOU) CO., LTD.





Large-volume Measurement

Accuracy 0.089mm

5000

6000

Accuracy 0.067mm

3500

Accuracy 0.049mm

7500

0



Remarkable Accuracy

With powerful hardware and software, TrackScan-Sharp delivers metrology-level and high-precision measurement results. This optical 3D tracking system ensures the measurement results meet high metrological demands. Thanks to its large tracking volume, increased by around 200%, users can measure huge parts without compromising precision.



Fast 3D Scanning

Due to its optical tracking technology, TrackScan-Sharp can precisely measure parts without having to stick reference targets. Its large tracking volume allows users to measure multiple parts at the same time, thus significantly improving operations efficiency.





Vast Applications



It boasts a shadow-less-light edge detection with high-precision gray value measurement. Users can inspect closed features precisely, especially threaded holes. Good measurements are ensured by delivering accurate and repeatable measurement results such as positions and diameters.









Its i-Tracker can be combined with tool simulators and path planning software to form M-Track, an intelligent robotic path planning and guiding system. The system comprises perception, planning, and execution modules, which cater to different applications such as grinding, coating, welding, and more.

Innovative Design

Made of aerospace-grade carbon fiber in a sphere shape, the i-Scanner is for heavy use. Its ergonomic handle can ensure the long-session use of the 3D scanner without causing much fatigue, which ensures free measurement.

The i-Tracker has an intuitive light band that shows operating status in real time. Its hollow grille design helps cameras remain at a stable temperature throughout the scanning process.







T-Probe is a portable CMM probing system that comes with the i-Tracker to obtain dimensions of features, such as reference holes and hidden points. It can be widely used in the measurement of fixtures, stamping parts, and marking for actual machining allowance.

Free Measurement without Limitations

When combined with i-Tracker, T-Probe can be used wirelessly, free from mechanical constraints or cables. T-Probe can automatically align the coordinates of scanned data and probing data, which means users can probe the part right after 3D scanning. It offers total freedom of movement for measuring large parts with complex features.

T-Probe features single-point repeatability of up

Robust Performance and Enhanced Efficiency

to 0.025 mm and a volumetric accuracy of up to 0.049 mm. Its measurement rate can reach 60 measurements/sec, built for efficient and accurate measurements of parts of various kinds.

Vast Applications

T-Probe comes in different probe sizes, which can be used on complex shop floor regardless of vibrations. When paired with Tviewer or third-party software, it can conduct real-time optical probing.

Comfortable Use and Easy Operation

Made in carbon fiber, T-Probe is lightweight, weighting only 450 g. Its portability and ergonomic handle make it easy to probe. Operators can work with it for a long duration without feeling tired.

Technical Parameter

| Туре | | TrackScan-Sharp 49 |
|---|-----------------------------------|--|
| Scan mode | Ultra-fast scanning | 21 blue laser crosses |
| | Hyperfine scanning | 7 blue parallel laser lines |
| | Deep-hole scanning | 1 blue laser line |
| Accuracy (1) | | Up to 0.025 mm |
| Measurement rate | | Up to 2,600,000 measurements/s |
| Scanning area | | Up to 500 mm × 600 mm |
| Laser class | | Class II (eye-safe) |
| Resolution | | 0.020 mm |
| Volumetric accuracy (2) | 10.4 m³ (Tracking distance 3.5 m) | 0.049 mm |
| | 28.6 m³ (Tracking distance 5.0 m) | 0.067 mm |
| | 49.0 m³ (Tracking distance 6.0 m) | 0.089 mm |
| Tracking Distance per i-Tracker | | 6000 mm |
| Volumetric accuracy (with MSCAN photogrammetry system) | | 0.044 mm + 0.012 mm/m (>6m) |
| Hole position accuracy | | 0.050 mm |
| Camera pixels of i-Tracker | | 25 megapixels |
| Stand-off distance | | 300 mm |
| Depth of field | | 400 mm |
| Part size range (recommended) | | 0.1 m-12 m |
| Operating temperature range | | 0 °C-45 °C |
| Operating humidity range (non-condensing) | | 10-90% RH |
| Interface mode | | USB 3.0, Network Interface |
| Certification | | CE, RoHS, WEEE |
| Patents | | CN106500627B, CN106500628B, CN206132003U, CN204854633U, CN2049444431U, CN204902788U, CN204963812U, CN204902785U, CN106403845B, US10309770B2, CN204854633U, CN105068384B, CN105049664B, CN106403845B, CN214375417U, CN214379242U, CN214379241U, CN214149174U, CN109000582B, CN112802002B, CN210567185U, CN211121096U, CN114001671B, CN114001696B, CN114554025B, CN114205483B, US10309770B2, US11060853B2, KR102096806B1, EP3392831B1, CN218411072U, CN115325959B, CN2181103238U, CN218103220U, CN114627249B, US11493326B2, CN115695763B, CN307756797S, CN218584004U |

(1) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, probing error (size) (PS) performance is evaluated. (2) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.



Technical Parameter

| Туре | | T-PROBE |
|-------------------------------|---------------------|--|
| Accuracy | | 0.025 mm |
| Volumetric accuracy | 10.4 m³ | 0.049 mm |
| | 28.6 m ³ | 0.067 mm |
| Measurement rate | | 60 measurements/s |
| Part size range (recommended) | | 0.2 m-6 m |
| Weight | | 450 g |
| Dimension | | 345*55*121 mm |
| Operating temperature range | | 0 °C-40 °C |
| Operating humidity range | | 10-90 % RH |
| Patents | | CN204329903U, CN104501740B, CN104165600B, CN204988183U, CN204854633U, CN2049444431U, CN204902788U, CN105068384B, CN105049664B, CN204902784U, CN204963812U, CN204902785U, CN204902790U, CN106403845B, CN209197685U, CN209263911U, CN106500627B, CN106500628B, CN206132003U, CN211121096U, US10309770B2, KR102096806B1 |



