

Scantech Launches the Latest Optical 3D Measurement System TrackScan-Sharp

Hangzhou, China – April 26th, 2023 – Scantech, a high-tech company specializing in the development, manufacture and sales of 3D scanners and offering automated measurement solutions, is pleased to launch the latest optical 3D measurement system TrackScan-Sharp.

TrackScan-Sharp, consisting of a portable 3D scanner i-Scanner and an optical i-Tracker, is a brand-new generation of Scantech's optical 3D measurement system for measuring large-scale parts. It brings optical measurement to a whole new level by offering a tracking distance of up to 6 meters, a volumetric range of 49 m³, and volumetric accuracy of up to 0.049 mm (10.4 m³).

Engineered with i-Tracker's on-board processor for pre-computation, 25-megapixel industrial cameras, and cutting-edge technologies, the TrackScan-Sharp is ideal for measuring large-sized parts or multiple parts at the same time without the hassle of moving trackers frequently.



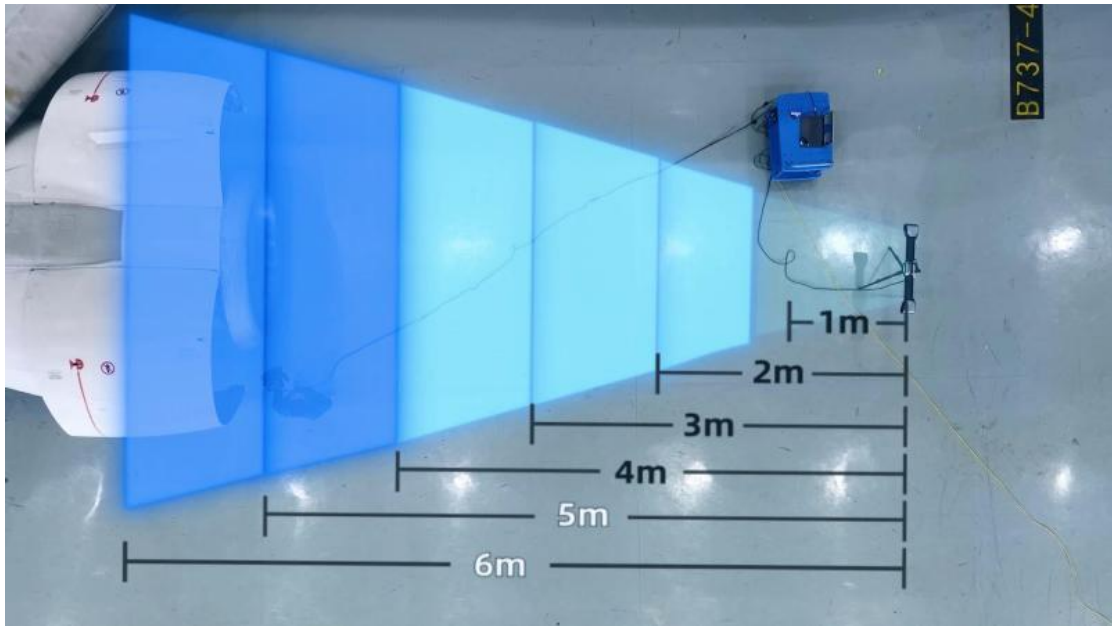
It supports wired and wireless data transfer to cater to different industrial uses, making scanning even easier. It can also work with an auxiliary light module to inspect holes and slots. TrackScan-Sharp is optimal for efficient and stable measurements to enhance product development, quality control, and more.

Ultra-high Pixels for Intricate Details

TrackScan-Sharp tracking 3D scanning system is equipped with a brand-new industrial camera. The camera features 25 megapixels, which is 5 times that of its previous generation.

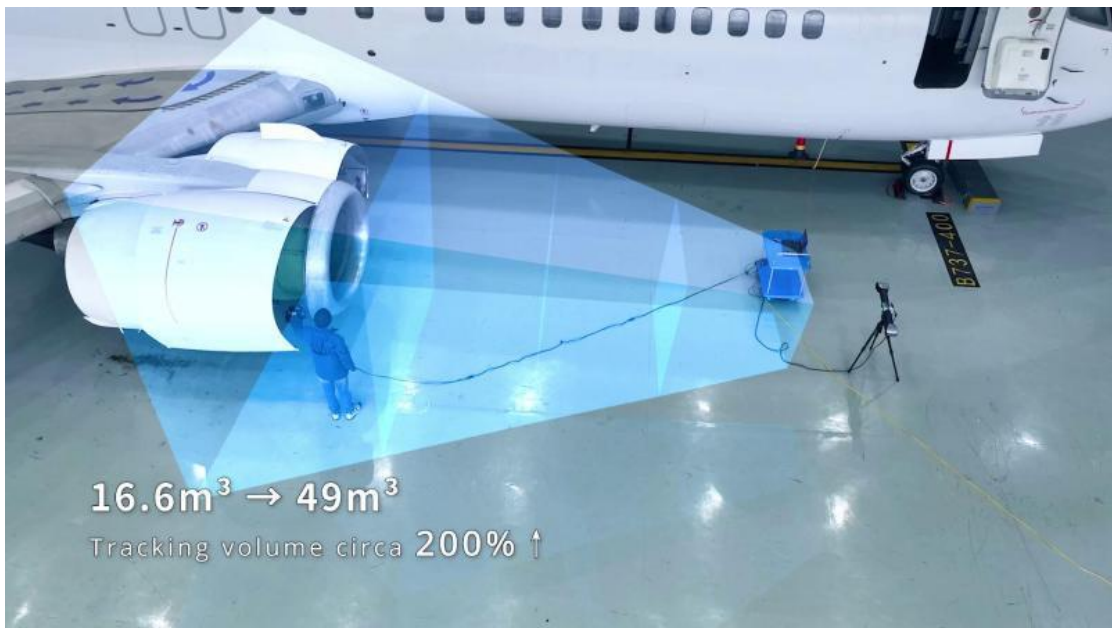


Thanks to its DLA algorithm, long-distance depth of field, and strong anti-interference ability, the system can automatically acquire clear images in a range as long as 6 meters.



Large-volume Measurement

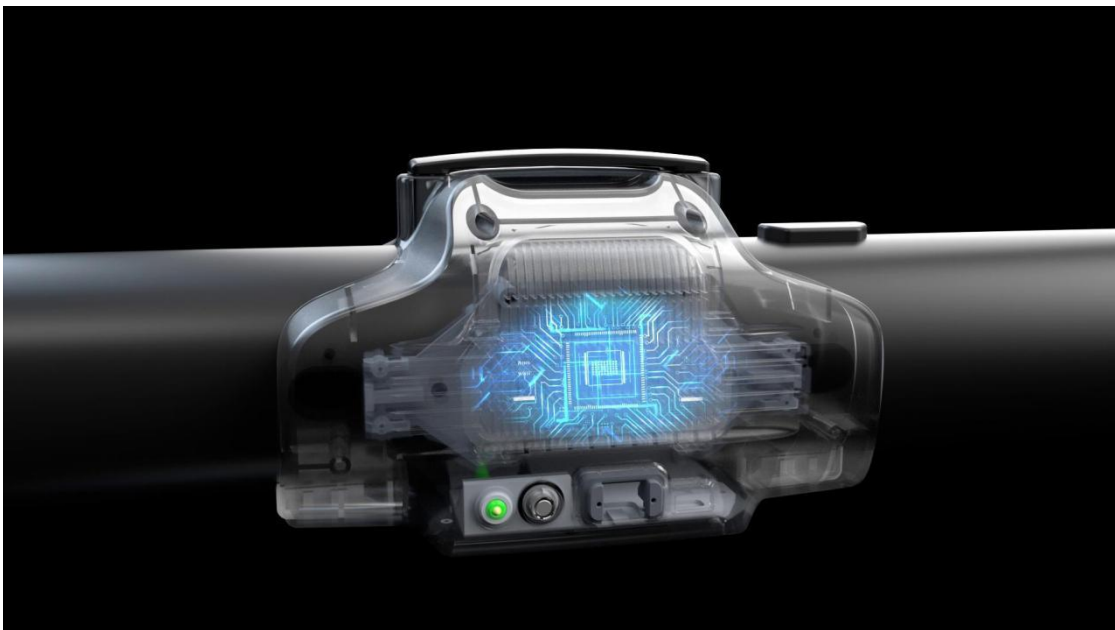
Powered by its wide measurement volume and robust edge measurement algorithm, TrackScan-Sharp enables one-stop scanning of large-scale parts. There is no need for users to move tracker frequently when measuring large parts, which ensures efficient, smooth and precise measurements.





Pre-computation & Impressive Performance

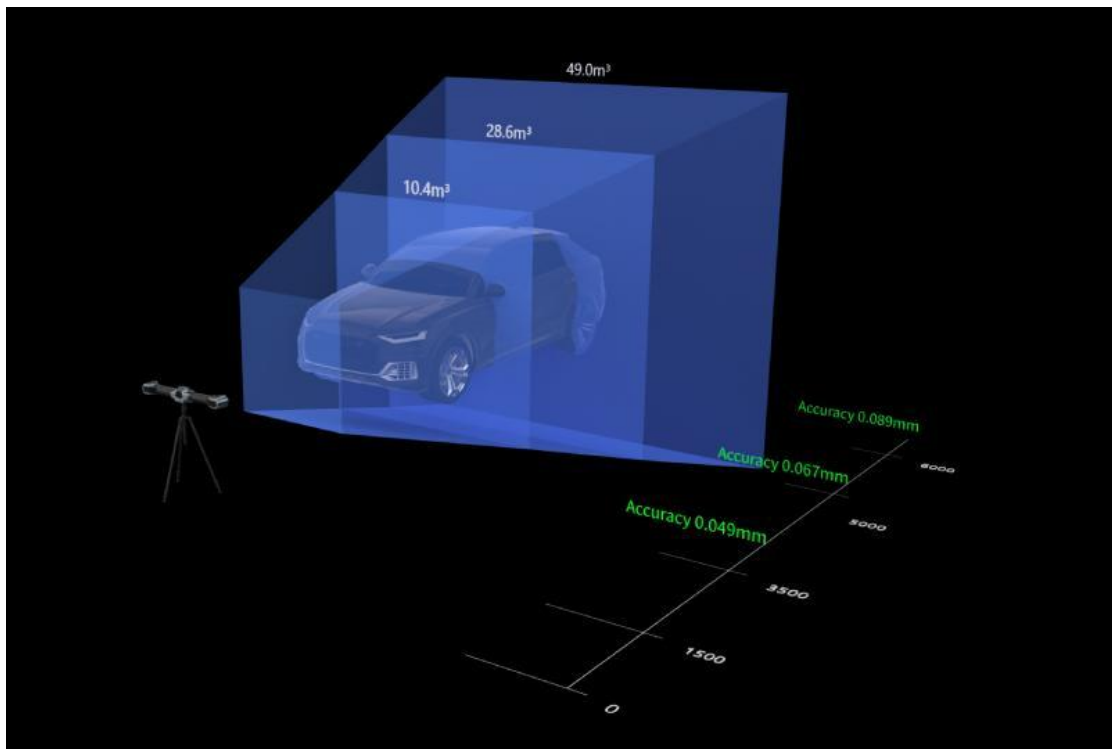
The newly designed i-Tracker has an onboard processor for efficient image processing and data computation, which can deliver coordinates in real time. This innovative pre-computation saves the computer's computing power, so that it's more capable of processing the scanned data. It optimizes the data and makes it more reliable and stable, impressing users with outstanding performance.



Remarkable Accuracy

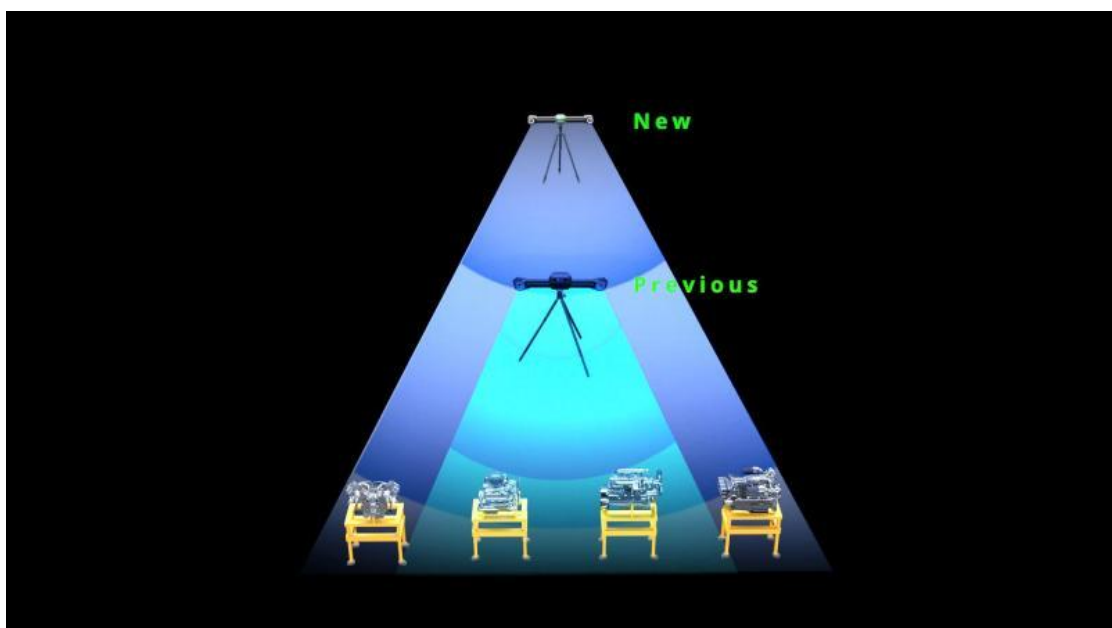
With powerful hardware and software, TrackScan-Sharp delivers metrology-level and high-precision measurement results. This optical 3D tracking system ensures the measurement results meet high metrological demands. Thanks to its large tracking volume, increased by around 200%, users can measure huge parts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

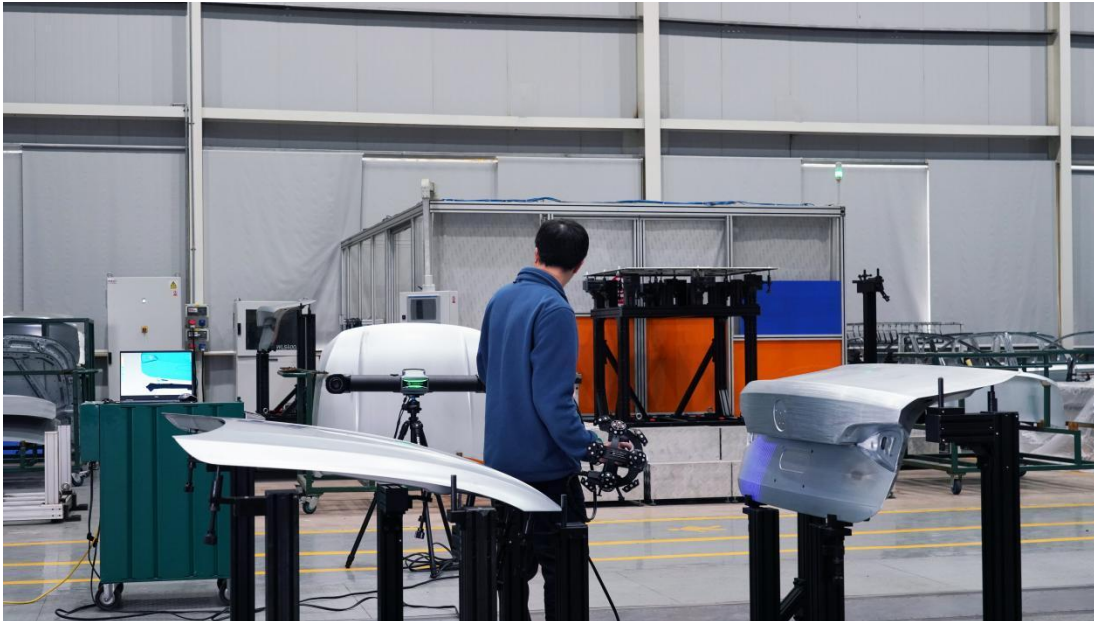
compromising precision.



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.





A New Era of Data Transmission

The 3D scanning system can transfer data both with and without wires. With wired mode, the system can send data over a long distance in line with industrial measurement standards. Optional wireless mode supports applications, in different working conditions, which is convenient due to its plug-and-play operations. It can be set up quickly and operated flexibly to cater to various environmental conditions, ensuring efficient measurements.



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 highly-adaptive data acquisition algorithm ensures that the equipment can easily obtain the 3D data of objects with different surfaces and materials such as reflective, dark, and colorful surfaces.
- It can be paired with a portable CMM T-Probe (optional with different lengths) to probe inaccessible areas, such as holes and hidden points. This contact measurement probe can deliver single-point repeatability of up to 0.025 mm.
- 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.

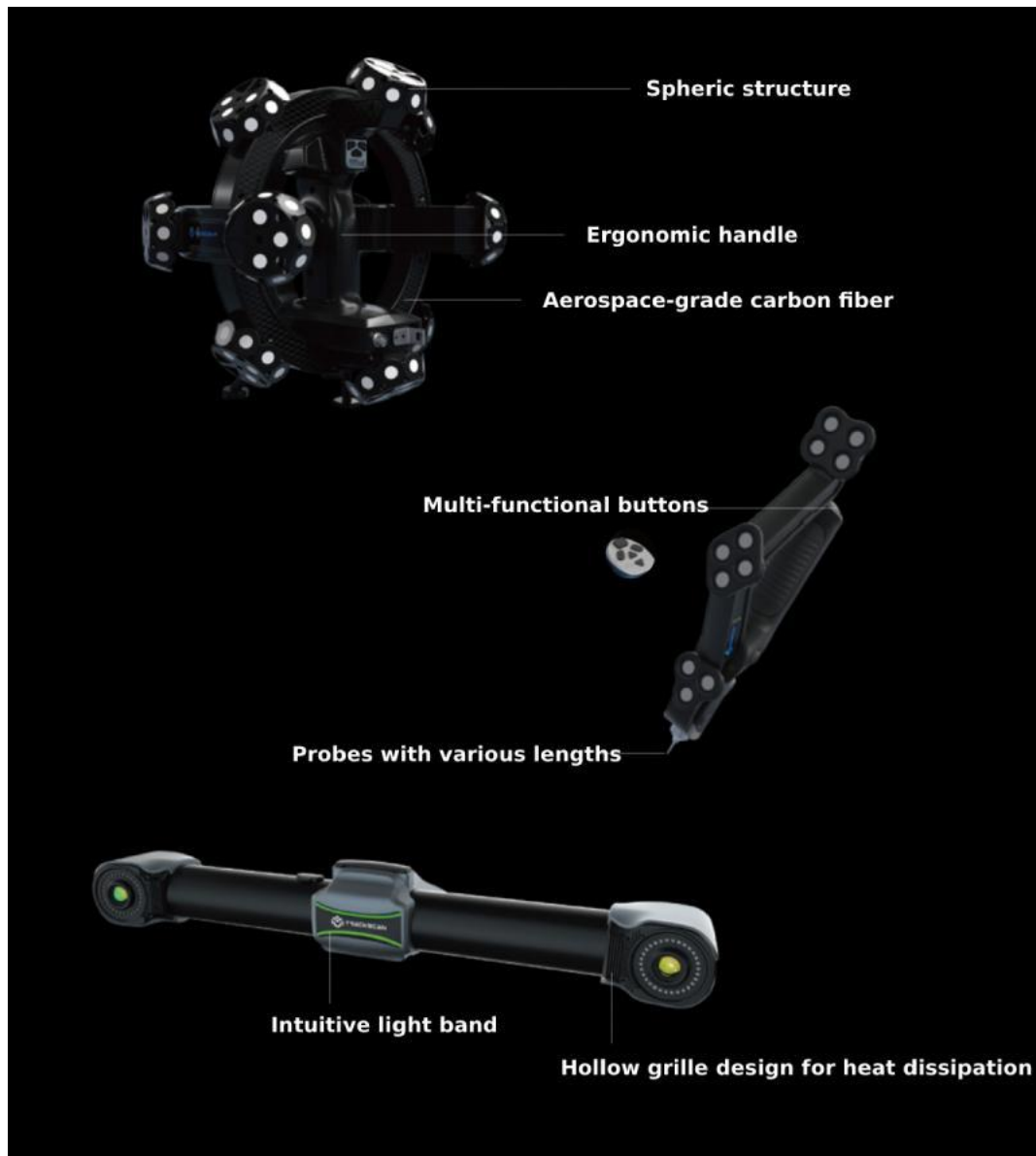


Innovative Design

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.



About Scantech

Scantech is a high-tech metrology company that specializes in developing, manufacturing, and the sales of 3D scanners with the capability of automated solutions. Scantech provides professional 3D digital solutions for various industries.

Our R&D team developed a series of 3D digital equipment with self-owned intellectual property rights, such as handheld laser 3D scanners, composite 3D scanners, tracking 3D scanners with built-in photogrammetry system, and automated 3D measurement systems.