



TRACKSCAN SHARP - S Optical 3D Scanning System

Large-volume and Precise Measurement Beyond Limits



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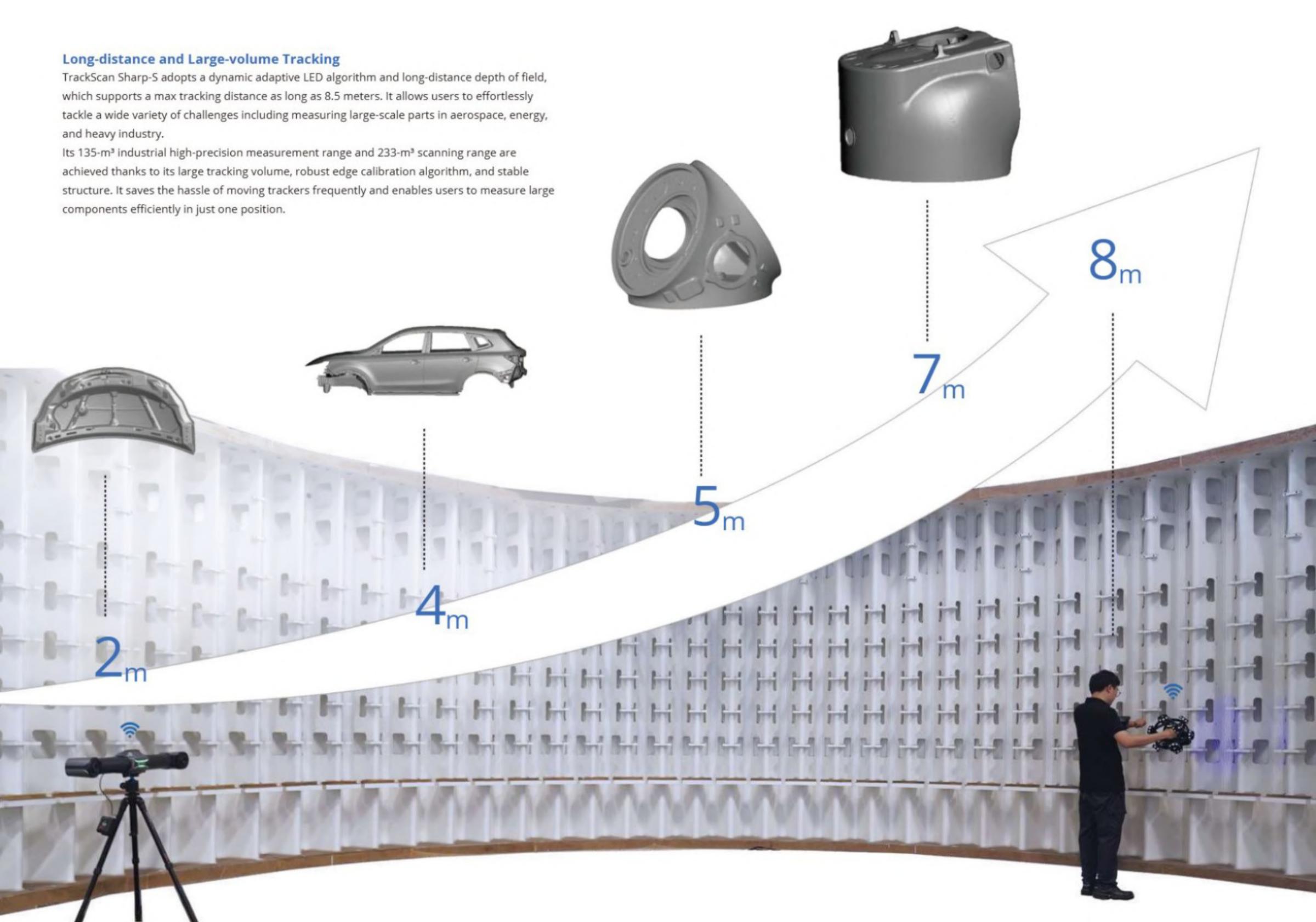
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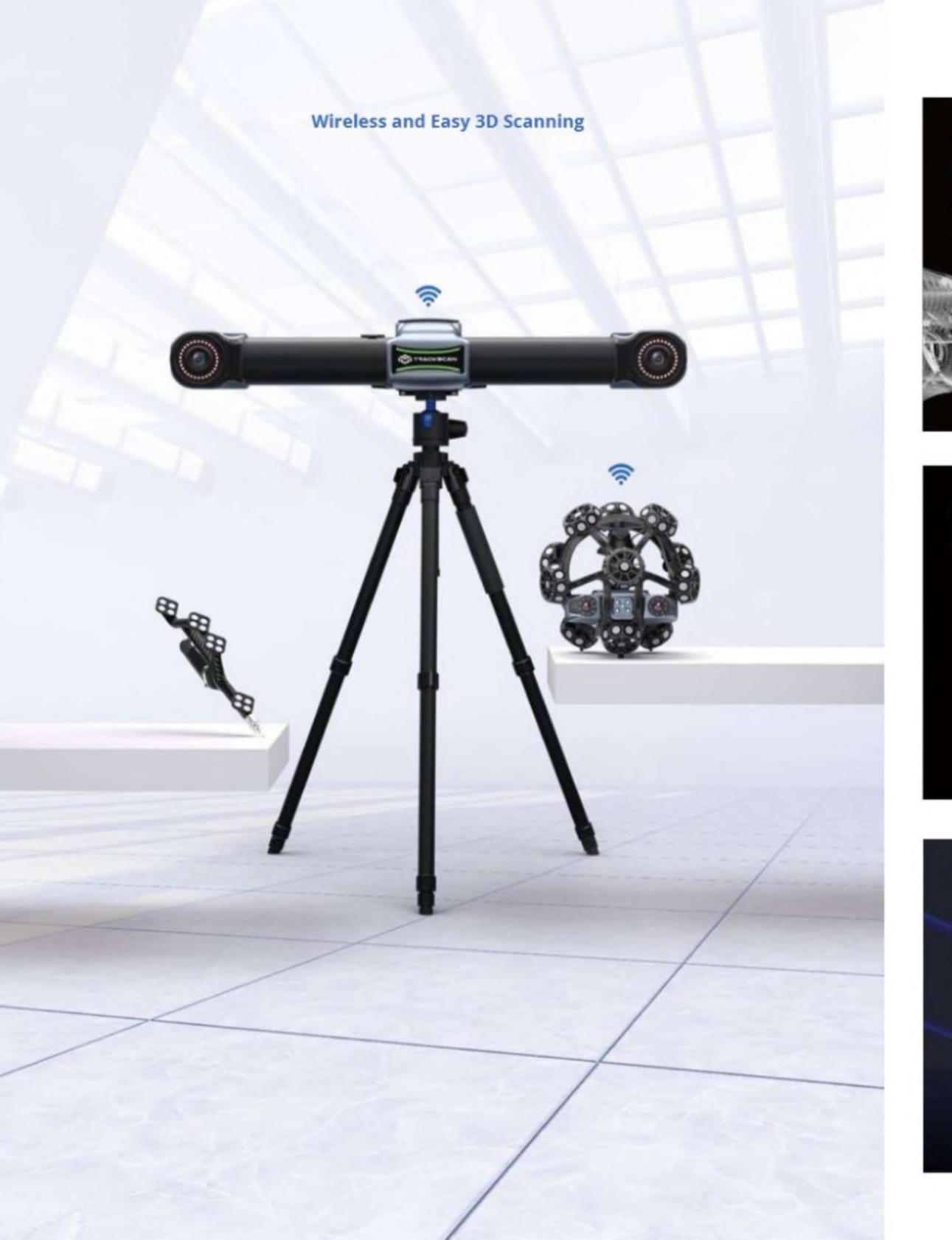
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SCANTECH (HANGZHOU) CO., LTD.

TRACKSCAN SHARP-5

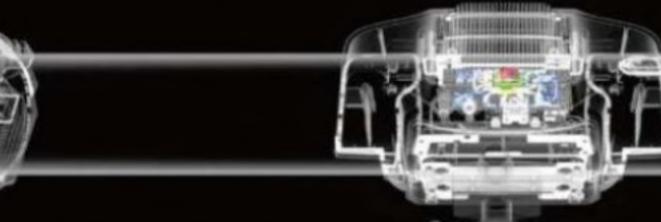






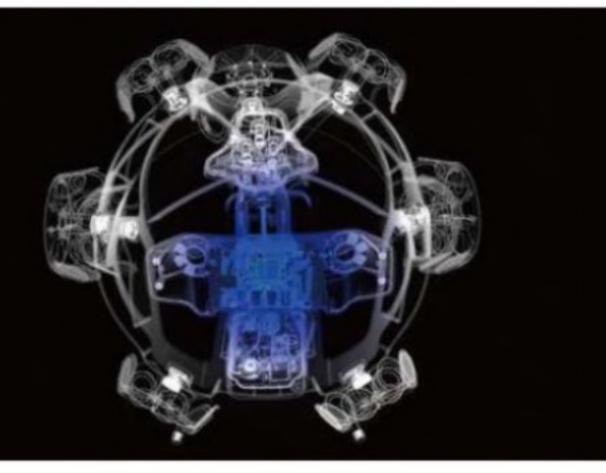
Wireless System

Both the system's 3D scanner and optical tracker have powerful onboard processors for edge computing, which process images and data in real time and output 3D coordinates. Combined with batteries, and external WNICs, it lets users to measure objects wirelessly.



Plug-and-play

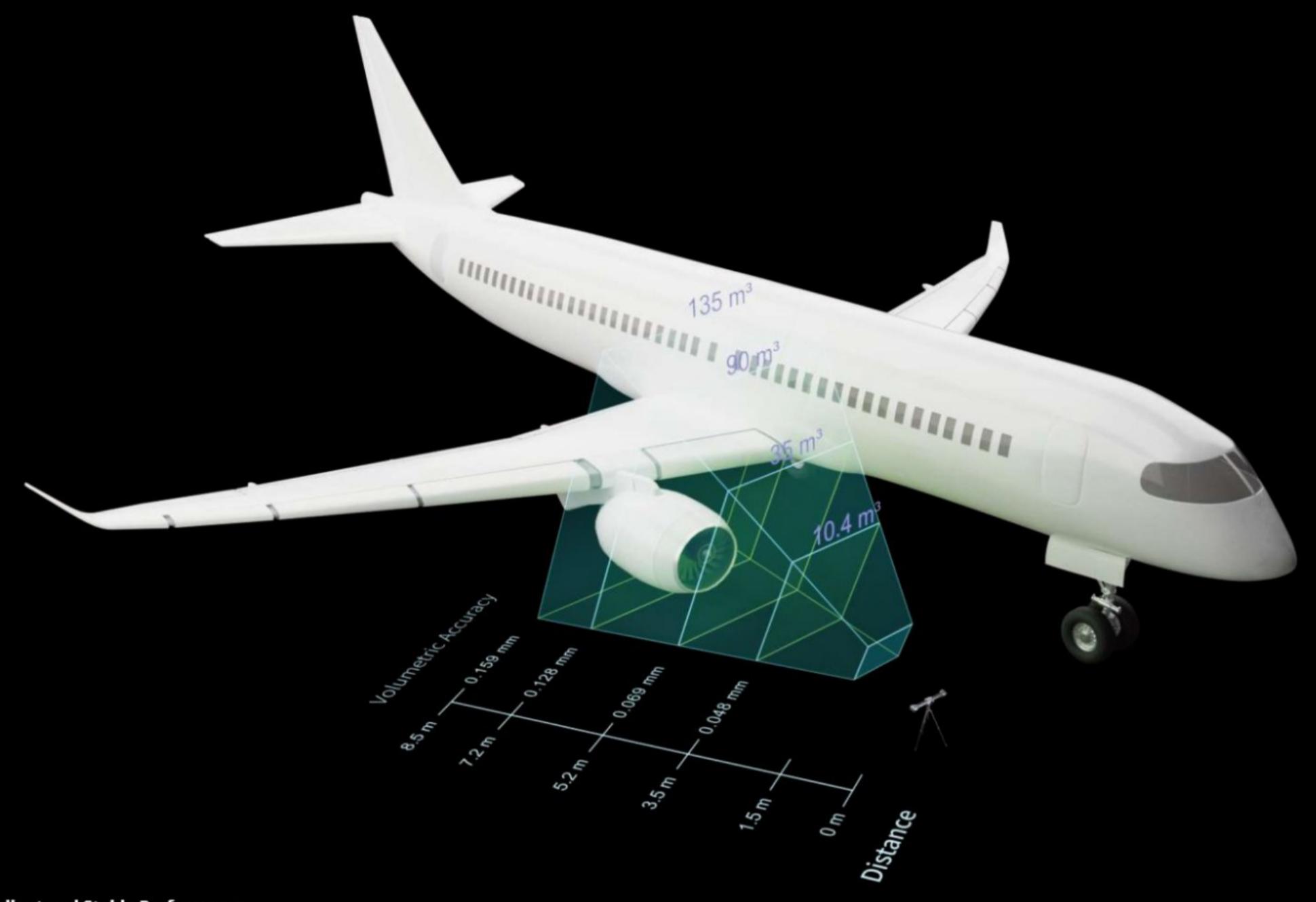
The system connects automatically when switched on, without requiring any complex settings, and starts scanning instantly.



User-friendly Operation

Its user-friendly buttons are easy to operate, offering flexible and free 3D scanning.

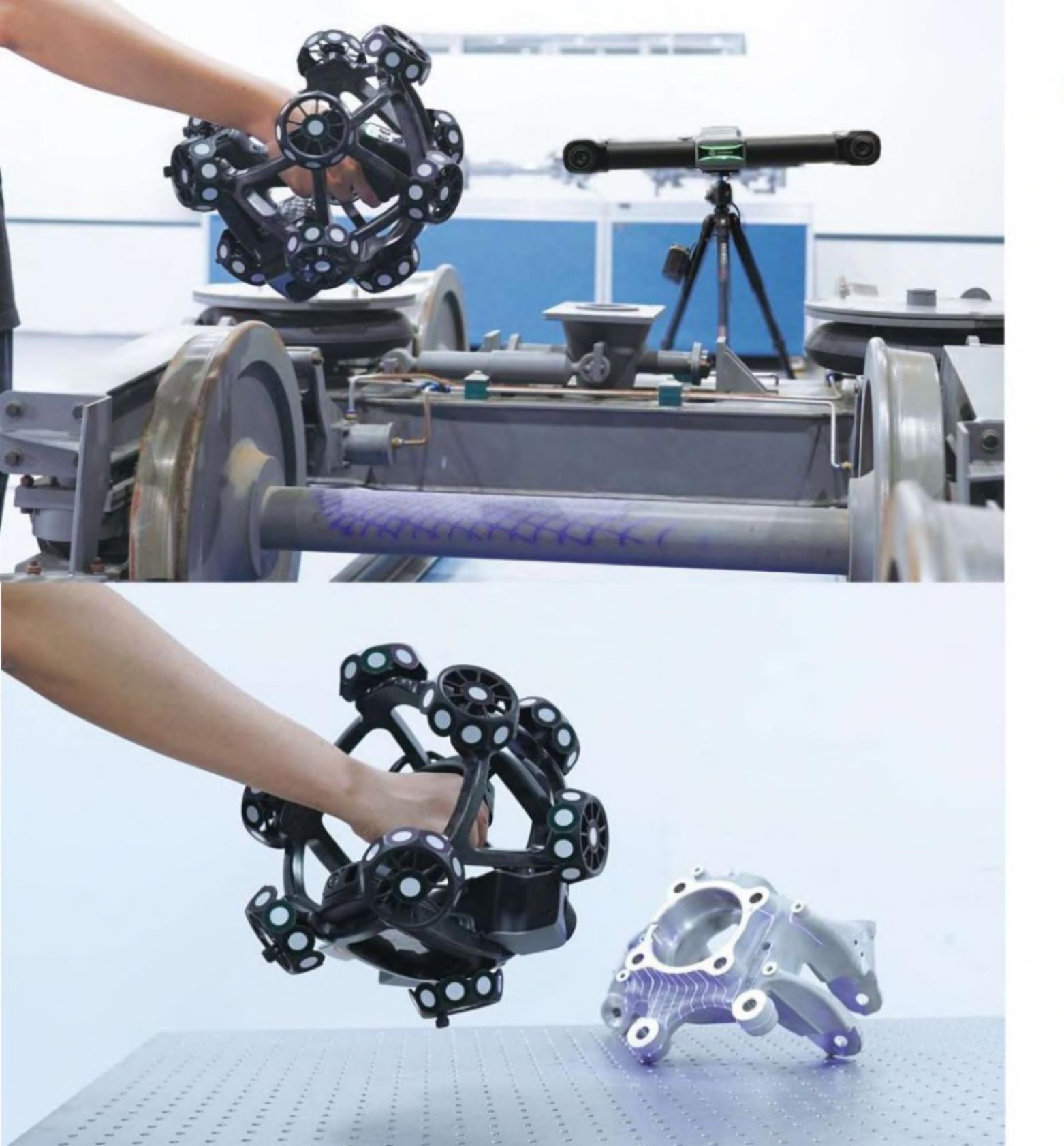




Excellent and Stable Performance

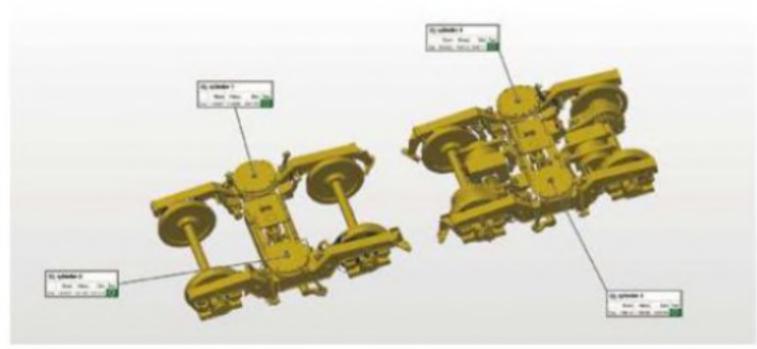
The TrackScan Sharp-S measurement system features metrology-grade hardware and an innovative in-housed developed algorithm. In this way, the system achieves a maximum volumetric accuracy of 0.048 mm (10.4 m³), capable of meeting stringent industrial requirements for measurements.

The 3D scanner features an innovative stable structure with CFFIM technology to ensure lightweight design and high strength. Built tough, it maintains a stable performance and it is unaffected by thermal variations to ensure high-precision measurements. Its integrated structure allows users to grip it from any direction, enabling them to handle and position it freely. Its harmoniously integrated components create a unified and balanced look.



Fast 3D Scanning

Enhanced by advanced hardware and robust edge computing, TrackScan Sharp-S scans up to an impressive 4.86 million measurements/s with 81 blue laser lines. Whether it is complex aerospace parts or large-scale machinery, TrackScan Sharp-S is ideal to capture 3D data and identify deviations of parts rapidly, which facilitates more efficient and intelligent measurements for manufacturers.



Precise Detail Capture

The system's fine scanning mode powered by 17 parallel laser lines enables it to scan over a large area while generating point clouds fast. This feature provides exceptional detail-capturing efficiency, allowing users to capture intricate details such as slots and corners with high precision and speed. As a result, parts are meticulously represented in 3D, ensuring accurate and comprehensive digital models.

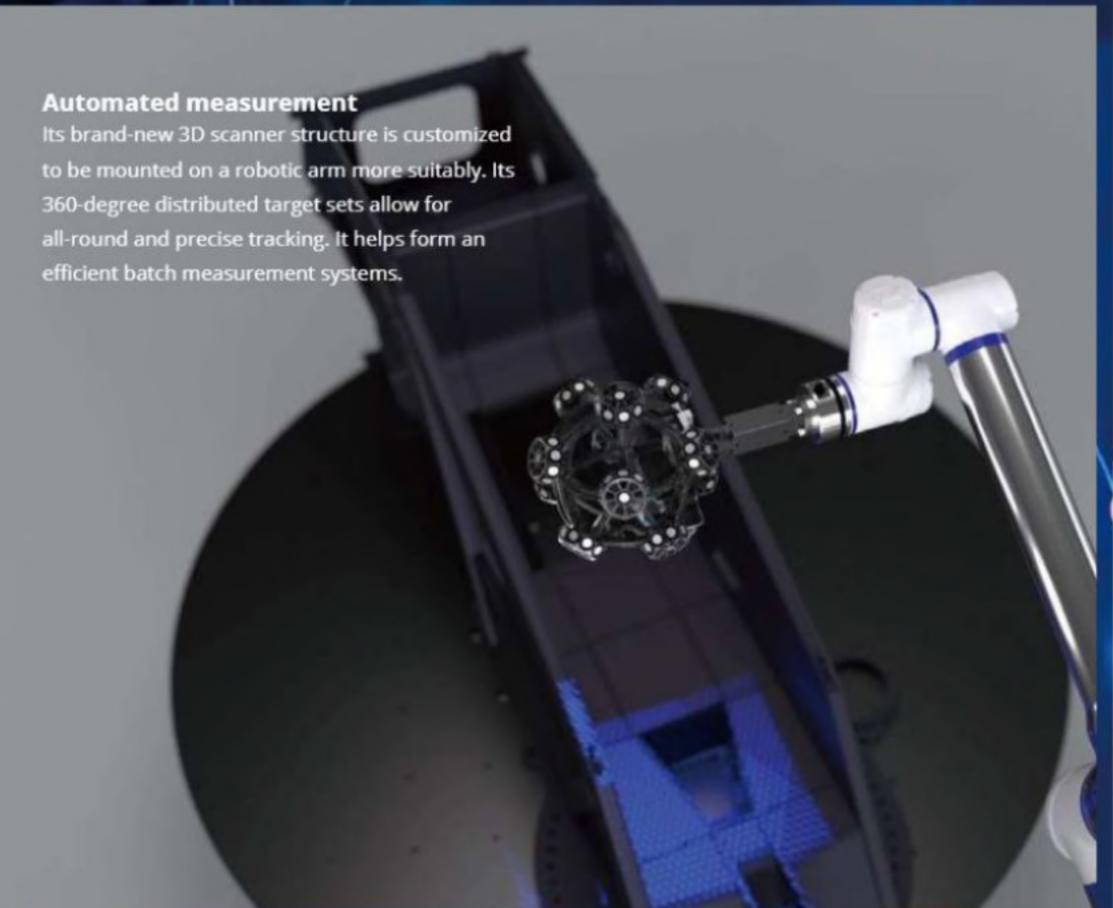


Versatile Compatibility



Intelligent edge detection

It boasts an optional function of intelligent edge detection, which is enabled by gray-value measurement. Users can inspect features such as holes, slots, rectangles, rivets, and edges precisely. It is capable of 3D scanning and obtaining information such as positions and diameters.



Multi-tracker measurement

Its measurement range can be dynamically extended by adding more i-Trackers so that it can measure large-scale objects without compromising accuracy.



i-Probe500

It can be paired with a tracking i-Probe 500 to probe inaccessible areas such as reference holes and hidden points. This contact measurement probe can ensure precise results with both wired and wireless options.



Technical Specifications

Туре		TrackScan Sharp-S
Scan mode	Ultra-fast scanning	81 blue laser lines (Triple Cross Technology)
	Hyperfine scanning	17 blue parallel laser lines
	Deep-hole scanning	Extra 1 blue laser line
Accuracy (1)		up to 0.025 mm
Measurement rate up to		4,860,000 measurements/s
Scanning area up to		800 mm × 700 mm
Laser class		Class II (eye-safe)
Resolution up to		0.020 mm
Volumetric accuracy(2)	10.4 m² (3.5 m)	0.048 mm
	35 ms (5.2 m)	0.069 mm
	90 m² (7.2 m)	0.128 mm
	135 m² (8.5 m)(3)	0.159 mm
Volumet	ric accuracy togrammetry system)	0.044 mm + 0.012 mm/m
Stand-off distance		300 mm
Depth of field		400 mm, 800 mm (Large depth of field)
Hole position accuracy		0.050 mm
Output format		.stl, .pj3, .igs, .asc and etc., customized
Operating temperature range		-10-40 °C
Operating humidity range (non-condensing)		10-90 % RH
Interface mode		USB 3.0, Network Interface
Certification		CE, Rohs, WEEE, FCC
Patents		CN109000582B, CN110992393B, CN111678459B, CN111694665B, CN112802002B, CN112867136B, CN112964196B, CN113188476B, CN113340234B, CN113432561B, CN113473034B, CN113514008B, CN113766083B, CN114001696B, CN114205483B, CN114554025B, CN114627249B, CN115289974B, CN115325969B, CN115493512B, CN115511688B, CN115661369B, CN115690333B, CN115696763B, CN116136396B, CN116206069B, CN116244730B, CN209263911U, CN210567185U, CN211121096U, CN214149174U, CN218103220U, CN218103238U, CN218411072U, CN218584004U, CN218734448U, CN219829788U, CN219834226U, CN307756797S, EP3392831B1, EP3907702B1, KR102096806B1, US10309770B2, US11060853B2, US11493326B2

^{*}Our company reserves the right to interpret and modify the parameters and images in this manual within the scope of law.



⁽¹⁾ ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and 33F 1951 specification, probing error (size) (PS) performance is evaluated.
(2) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and 33F 1951 specification, sphere spacing error (SD) performance is evaluated.
(3) The industrial-grade high-precision measurement range of TrackScan Sharp-S is up to 135 m*, and its scanning range is up to 233 m*.