

TECHNICAL SPECIFICATIONS

Model	V-Track	
Scanning Mode	High-Speed Scanning	50 crossed blue laser lines
	Precision Scanning	7 parallel blue laser lines
	Deep Hole Scanning	1 single blue laser line
	Tracker Scanning	50 crossed blue laser lines
Laser Line bundle	108	
Accuracy	Up to 0.020mm (Scanner) 、 Up to 0.025mm (Tracker)	
Measurement Rate	Up to 7,100,000 measurements/s	
Scanning Area	Up to 1100mm×800mm (Scanner) 、 Up to 2600mm×2200mm (Tracker)	
Laser Class	Class II (Eye-Safe)	
Data Security	Facial Recognition	
Resolution	Minimum 0.010mm	
Volume Accuracy (Scanner Only)	10.0m ³	0.060mm (3.2m)
	25.0m ³	0.083mm (4.2m)
Volume Accuracy (Integrated with photogrammetry system)	0.044mm+0.012mm/m	
Recommended Scan Size Range	10~8000mm	
Stand-off distance	300mm	
Depth of Field	650mm (Scanner) 、 2300mm (Tracker)	
Output Formats	stl, .ply, .igs, .asc, etc., can be customized	
Operating Temperature	-10°C ~ 40°C	
Via Ethernet	Via Wireless Wi-Fi 6.0	



V-Track

Laser Tracking 3D digitization System

※ According to the VDI/VDE 2634 Part 3 standard and the JJF 1951-2021 Calibration Specification for Optical Three-dimensional Measurement Systems Based on Structured Light Scanning.

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WhatsApp

The Company reserves the right to interpret and modify the information contained in this manual.

V-TRACK

A New-generation Metrology-grade Optical Tracking System

Equipped with the industry-leading 108 laser lines, it integrates portable tracking 3D scanning and large-format laser handheld scanning. With a larger single-scan coverage area, higher point cloud density, and faster measurement speed, it accurately captures details of complex curved surfaces, deep holes, and micron-level features.

No need for tedious marker pasting, truly ready to scan upon startup, opening more possibilities for 3D digital solutions.



High Efficiency



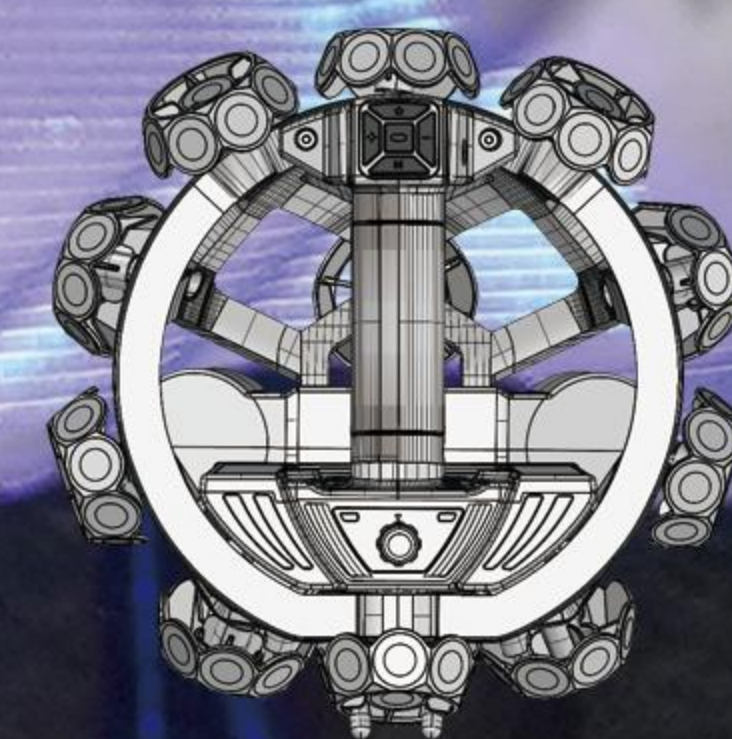
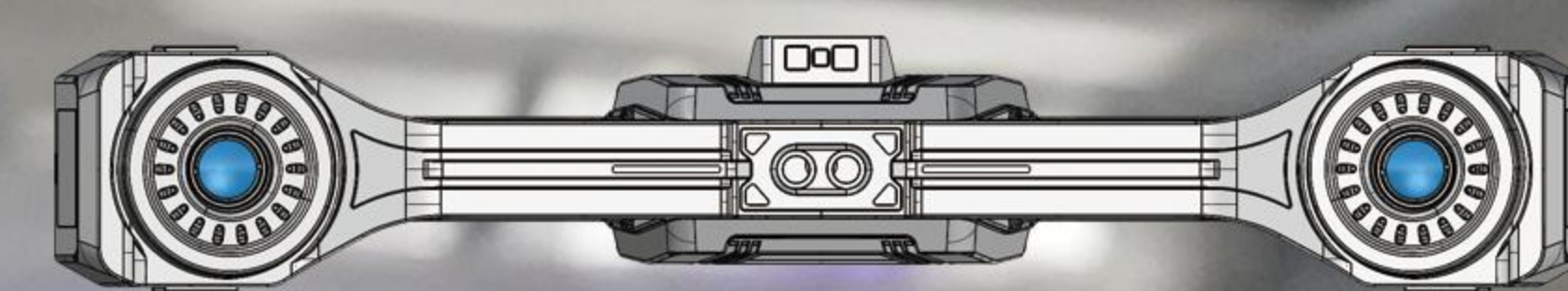
High Precision



High Definition

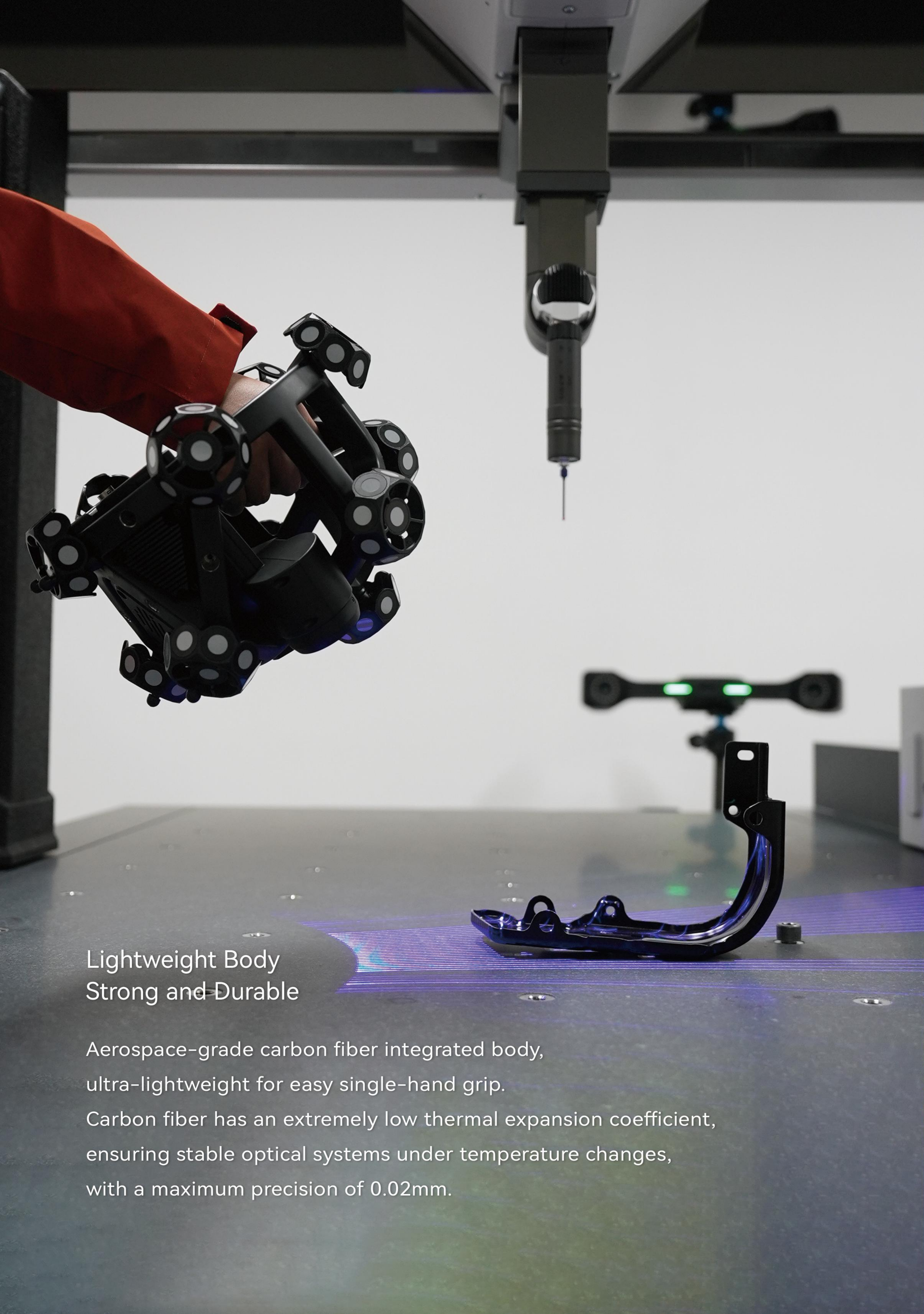


High Quality



Dual-Core Intelligent Adaptation
Multi-Purpose Machine

V-Track adopts a modular split design. The scanner and tracker can work in a network collaboratively or independently. It switches freely between working modes for different scenarios while maintaining high-precision capture. One device covers the entire workflow.



Lightweight Body Strong and Durable

Aerospace-grade carbon fiber integrated body, ultra-lightweight for easy single-hand grip. Carbon fiber has an extremely low thermal expansion coefficient, ensuring stable optical systems under temperature changes, with a maximum precision of 0.02mm.



AI Intelligence Scan & Measure Instantly

Deeply integrated with AI recognition algorithms, it quickly identifies holes, edges, and geometric features during scanning. Intelligent resolution optimizes point clouds in key areas, and an intelligent color spectrum provides real-time feedback on data integrity. What you see is what you get, eliminating tedious post-processing.

Facial Recognition Secure Core Startup

The industry's first built-in facial recognition security module: it serves as the device access key and supports face-scanning to call up personal presets, enabling seamless switching and personalized operation.



**No Markers
Unlimited Freedom**

No markers needed
scan immediately after power-on
reducing preparation time from hours to seconds
Wireless freedom, free from cables
unconstrained movement during operation.



**Marker-Free Measurement
Robust Precision**

Integrated with large-range photogrammetry
technology to capture massive spatial data
instantaneously. Volume accuracy remains
stable and reliable for large workpieces,
eliminating cumulative errors from the source.

