

FreeScan Trak ProW+

Wireless 3D Dynamic Tracking & Scanning System with Expanded Range

Track Smarter, Expand Further



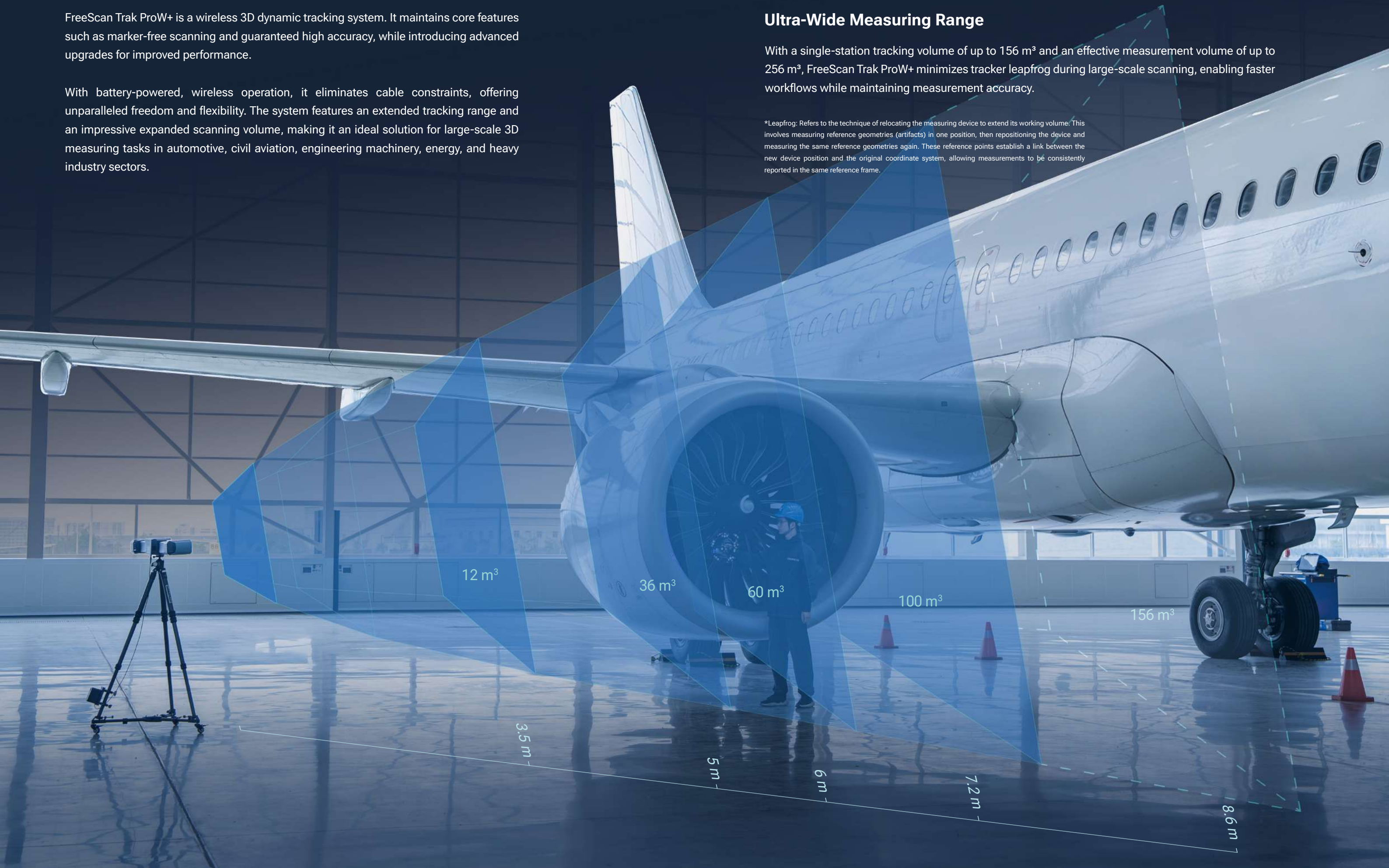
FreeScan Trak ProW+ is a wireless 3D dynamic tracking system. It maintains core features such as marker-free scanning and guaranteed high accuracy, while introducing advanced upgrades for improved performance.

With battery-powered, wireless operation, it eliminates cable constraints, offering unparalleled freedom and flexibility. The system features an extended tracking range and an impressive expanded scanning volume, making it an ideal solution for large-scale 3D measuring tasks in automotive, civil aviation, engineering machinery, energy, and heavy industry sectors.

Ultra-Wide Measuring Range

With a single-station tracking volume of up to 156 m³ and an effective measurement volume of up to 256 m³, FreeScan Trak ProW+ minimizes tracker leapfrog during large-scale scanning, enabling faster workflows while maintaining measurement accuracy.

*Leapfrog: Refers to the technique of relocating the measuring device to extend its working volume. This involves measuring reference geometries (artifacts) in one position, then repositioning the device and measuring the same reference geometries again. These reference points establish a link between the new device position and the original coordinate system, allowing measurements to be consistently reported in the same reference frame.



12 m³

36 m³

60 m³

100 m³

156 m³

3.5 m

5 m

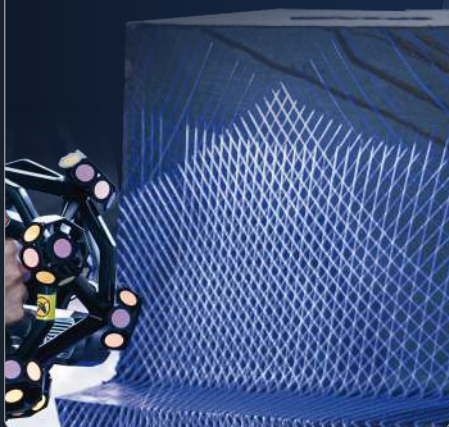
6 m

7.2 m

8.6 m

Multiple Scanning Modes for Every Measurement

93 Laser Lines
High-speed scan



25 Parallel Laser Lines
Detailed scan



1 Laser Line
Deep pockets scan



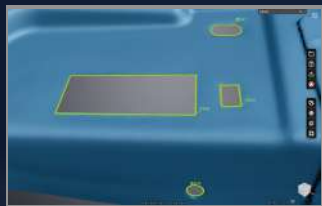
Video Photogrammetry (VPG)

Consistent volumetric accuracy for efficient large-object scanning



AI feature recognition

Intelligent boundary detection
of round holes, rectangular
holes and slots



FreeProbe Series (Optional)

Contact-based measurement
for hard-to-reach or
non-scannable features



Proven accuracy of up to 0.023 mm

Integrates seamlessly with PTB-certified SHINING3D Inspect software to perform reliable, high-quality full-field inspections.



SHINING 3D Accuracy Lab, accredited to ISO/IEC 17025, validates every metrology system through rigorous VDI/VDE 2634 and ISO 10360 testing and ensures internationally traceable measurements through a fully integrated quality control system.



SHINING3D Inspect (optional) delivers a streamlined, modular, and customizable approach to 3D inspection, simplifying workflows from data acquisition to reporting.



No Markers Needed

The tracker enables real-time scanner recognition and positioning, eliminating the need for reference markers, which enhances scanning efficiency and streamlines the workflow.



Wireless Scanning Wherever You Go

FreeScan Trak ProW+ delivers fast, wireless scanning anywhere. Its cable-free design enables real-time data transfer, with power bank support for unrestricted mobility.





Smart Features, Effortless Control

- Physical buttons streamline operation with quick access to frequently used functions.
- Integrated Display keeps essential device information readily accessible for seamless operation.
- Data quality indicator provides instant visual feedback on scan data quality.
- Intelligent resolution ensures clearer and more detailed features.



Customized Measurement Solutions

SHINING 3D Metrology offers flexible, customized solutions to accommodate diverse scanning needs. For instance, it supports a collaborative solution with multiple systems, significantly expanding the scanning range and easily meeting the scanning demands of extremely large objects.

By working together, multiple devices can cover a broader area, enabling efficient, flexible and accurate full-field scanning.

* Two FreeScan Trak ProW systems working simultaneously on a single task

Specifications

FreeScan Trak ProW+		
	FreeScan Trak ProW+	FreeProbe Series (Optional)
Accuracy	0.023 mm	0.025 mm
Volumetric accuracy (based on measuring range)	12 m³ (3.5 m away from the tracking bar): 0.046 mm; 36 m³ (5 m away from the tracking bar): 0.063 mm; 60 m³ (6 m away from the tracking bar): 0.088 mm; 100 m³ (7.2 m away from the tracking bar): 0.125 mm; 156 m³ (8.6 m away from the tracking bar): 0.156 mm	
Volumetric accuracy with VPG	0.044 mm + 0.012 mm/m (extension volume)	
Scan speed	7,600,000 points/s	100 measurements/s
Resolution	0.01 ~ 10 mm	/
Max. FOV	800 x 700 mm	/
VPG	Included (no coded markers required)	/
High-speed scan	Included (93 laser lines)	/
Detailed scan	Included (25 parallel laser lines)	/
Deep pockets scan	Included (1 laser line)	/
Working distance	300 mm	/
Depth of field	400 mm	/
Connection	Wireless & Wired mode (fiber optic)	
Output format	stl, obj, ply, asc, 3MF, P3	
Working temperature	-10 ~ 40°C	
Working humidity	10% ~ 90% RH	
Certifications	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50, TELEC, TISAX	/
Acceptance test	VDI/VDE 2634 Part 3 & ISO 10360 certified (Tested in the ISO/IEC 17025 accredited accuracy lab)	ISO 10360 certified (Tested in ISO/IEC 17025 accredited accuracy lab)

Authorized Reseller

V-GER SRL

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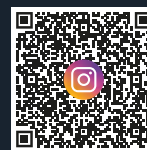
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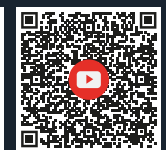
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COMPETENCE IN 3D SCANNING

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