

FreeScan Trak ProW+

Wireless 3D Dynamic Tracking & Scanning System with Expanded Range

Track Smarter, Expand Further



Ultra-Wide
Measuring Range



No Markers
Needed



Wireless Scanning
Wherever You Go



Customized
Measurement Solutions



Ultra-Wide Measuring Range

FreeScan Trak ProW+ features a groundbreaking design with an ultra-long 8.6 m tracking distance and widely expands the single-station tracking volume to 156 m³, significantly reducing the need for leapfrog* during large-scale object scanning.

*(1) 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.



No Markers Needed Fast Paced Scanning

The tracker enables real-time scanner recognition and positioning, eliminating the need for reference markers, which enhances scanning efficiency and streamlines the workflow, while ensuring rapid data acquisition with a scanning speed of up to 7,600,000 points per second.



Wireless Scanning Wherever You Go

Featuring integrated computing and wireless modules, FreeScan Trak ProW+ delivers a truly cable-free scanning experience with real-time data processing and stable wireless transmission. An intuitive built-in display provides instant access to key device information, ensuring efficient, reliable, and seamless scanning wherever the job takes you.



SHINING3D Inspect

SHINING3D Inspect delivers a streamlined, modular, and customizable approach to 3D inspection, simplifying workflows from data acquisition to reporting. The software is suitable for dimensional inspection and quality control of components across industries.





Customized Measurement Solutions

SHINING 3D 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.

SPECIFICATIONS

	FreeScan Trak ProW+	FreeProbe Series (Optional)
Accuracy	0.023 mm (0.00091 in)	0.025 mm (0.00098 in)
Volumetric accuracy (based on measuring range)	12 m ³ (423.78 ft ³) @ 3.5 m (11.48 ft): 0.046 mm (0.00181 in) 36 m ³ (1,271.33 ft ³) @ 5 m (16.4 ft): 0.063 mm (0.00248 in) 60 m ³ (2,118.88 ft ³) @ 6 m (19.69 ft): 0.088 mm (0.00346 in) 100 m ³ (3,531.47 ft ³) @ 7.2 m (23.62 ft): 0.125 mm (0.00492 in) 156 m ³ (5,509.09 ft ³) @ 8.6 m (28.22 ft): 0.156 mm (0.00614 in)	
Volumetric accuracy with VPG	0.044 mm + 0.012 mm/m (0.00173 + 0.00047 in/ft)	
Scan speed	7,600,000 points/s	100 measurements/s
Resolution	0.01 ~ 10 mm (0.00039 ~ 0.39 in)	/
Max. FOV	800 x 700 mm (31.5 x 27.6 in)	/
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 (11.81 in)	/
Depth of field	400 mm (15.75 in)	/
Connection	Wireless & Wired mode (fiber optic)	
Output formats	stl, obj, ply, asc, 3MF, P3	
Working temperature	-10 ~ 40°C (14 ~ 104 °F)	
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)
Recommended computer configuration	OS: Windows 10 Pro (64-bit) / Windows 11 Pro (64-bit) Processor: Intel Core i7 or i9 (13th/14th Gen HX) or above; Intel Core Ultra 9 285HX or above Graphics card: NVIDIA GeForce RTX 5080 Laptop GPU or above VRAM: 16G or above; RAM: 64G or above	



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