SHINING 3D

FreeScan Trak ProW

Wireless 3D Dynamic Tracking & Scanning System with Expanded Range

Track Smarter, Expand Further





FreeScan Trak ProW

FreeScan Trak ProW is a wireless 3D dynamic tracking system that elevates the performance of the FreeScan Trak Pro series. 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.

Product Components

Technical Principle

Ultra-Wide Measuring Range

No Markers Needed Fast Paced Scanning





Wireless Scanning Wherever You Go

- Built-In Computing Modules
- Integrated Wireless Modules
- Flexible Power Supply
- Real-Time Display Screen

Built-In Computing Modules

With advanced computing modules, FreeScan Trak ProW accelerates data capture and processing, ensuring rapid, efficient results on the go.

Video Photogrammetry (VPG)

FreeScan Trak ProW features SHINING 3D's patented video-based photogrammetry, which eliminates the need for coded markers.

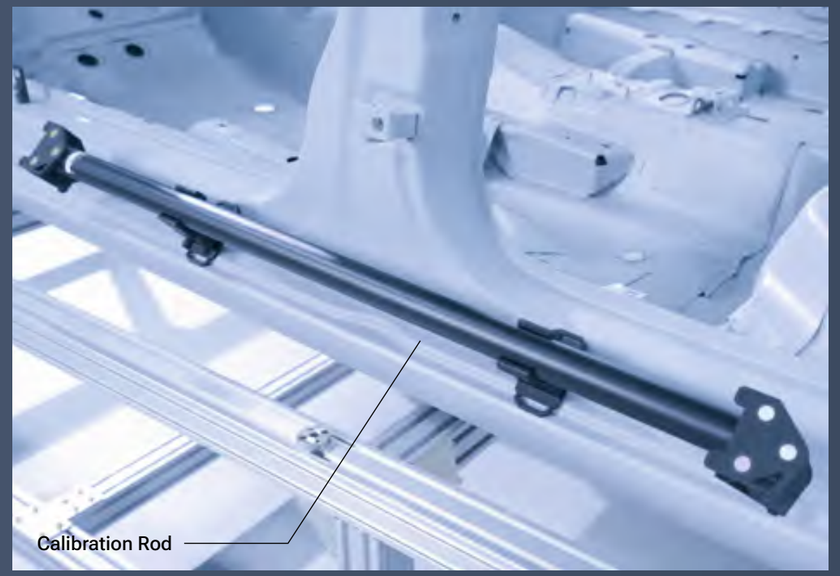
By integrating photogrammetry technology with a calibration rod, it enables real-time marker verification through video capture.

This ensures consistent volumetric accuracy and streamlines the setup process for efficient large-object scanning.

Learn More











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.

Advanced Software for Seamless 3D Measurement

- Real-Time Data Quality Visualization
- Intelligent Resolution
- AI Feature Recognition
- Inspection Module



Real-Time Data Quality Visualization

Users can access the quality of scanned markers during video photogrammetry and check data completeness during scanning.



FreeProbe (Optional)

Designed for quick measurements and inspections, the FreeProbe captures precise geometric data without generating mesh.

It is ideal for hidden areas the scanner cannot reach, ensuring data acquisition with pinpoint accuracy.

- Ergonomic design for easy grip and use
- Sturdy structure for enhanced durability and measurement accuracy
- Multi-functional button for versatile functionality
- Seamless integration with mainstream industrial inspection software



Civil Aviation



Engineering Machinery



Energy



Automotive



Heavy Industry



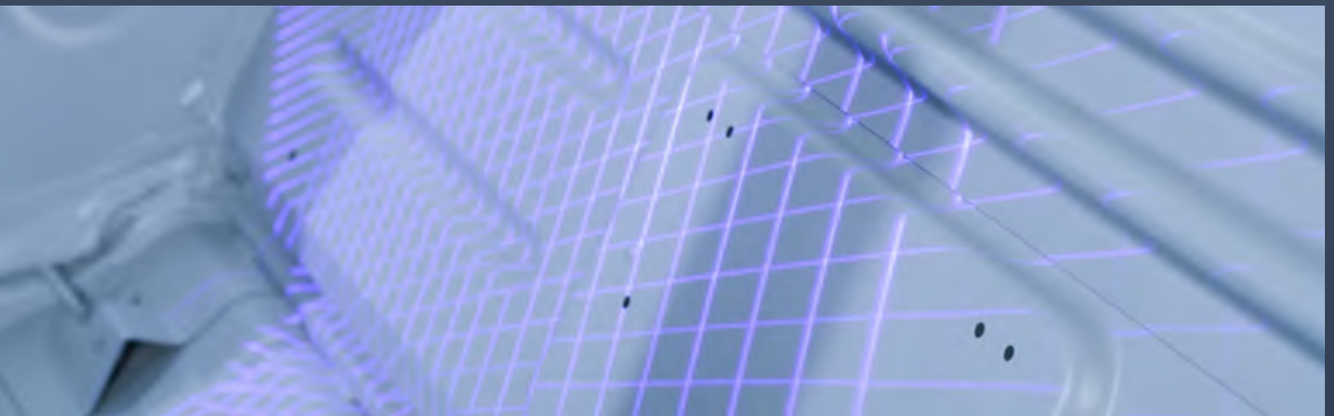
Shipbuilding



	FreeScan Trak ProW
Volumetric accuracy (based on measuring range)	15.6 m³ (3.5 m away from the tracking bar): 0.046 mm; 45 m³ (5 m away from the tracking bar): 0.063 mm; 76 m³ (6 m away from the tracking bar): 0.088 mm; 128 m³ (7.2 m away from the tracking bar): 0.127 mm; 206.7 m³ (Max. tracking range, 8.6 m away from the tracking bar)
Volumetric accuracy with VPG	0.044 + 0.012 mm/m (extension volume)
High-speed scan	Included (50 laser lines)
Detailed scan	Included (7 parallel laser lines)
Deep pockets scan	Included (1 laser line)
Weight	FreeTrak W: 8.2 kg / TE25W: 1.47 kg
Connection	Wireless & Wired mode (fiber optic)
Certifications	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50, TELEC, TiSAX
Acceptance test	VDI/VDE 2634 Part3 (certificated in ISO 17025 certificated accuracy lab)







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