

FreeScan Trak Pro2

Portable Optical Coordinate Measuring System



Exceptional Accuracy

FreeScan Trak Pro2 delivers metrology-grade scanning results with exceptional accuracy, reaching up to 0.023mm. Our reliability is validated through acceptance tests conforming to the VDI/VDE 2634 Part 3 standard, conducted in our ISO 17025 accredited laboratory.

Supreme Scanning Performance



Wide Measuring Range

Benefit from an expansive field of view (FOV) with trans-station scanning support for enhanced versatility.



High-Speed Scanning

Experience the seamless efficiency of Trak Pro2 with two 5.0 MP industrial-grade cameras featuring 50 blue laser lines (25 crosses), enabling ultra-high-speed scanning for a remarkably smooth scanning experience.

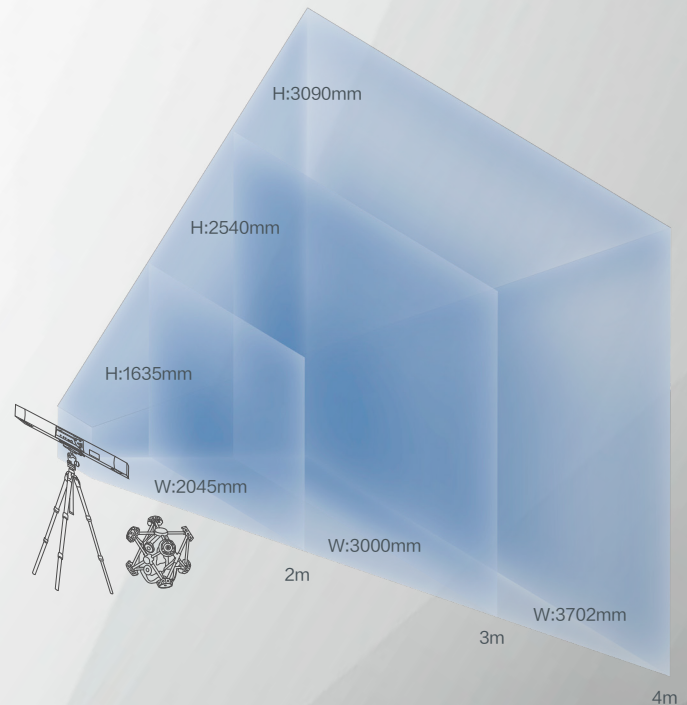


3 Laser Line Mode

50 cross laser lines scan
7 parallel laser lines scan
Single laser line scan



Accuracy: **0.023** mm (0.0009 in)



Scan Speed: **3,070,000** points/sec

Max. FOV: **650 x 580** mm (25.59 x 22.83 in)

Versatility Unleashed



Dynamic Referencing

The tracker or the object can be moved freely during measurement, allowing users to extend scanning volume and scan in unstable environment.



Scanning Beyond Limits

Effortlessly handle diverse objects, including large sizes, those with high details, and deep areas. **Ideal for scanning black and reflective objects.**

Optional Probe



Our Probe—a wireless, handheld, light-weight device with a sturdy structure. Elevate your scanning experience with unmatched flexibility and precision.



SPECIFICATION

FreeScan Trak Pro2			FreeProbe (Optional)
Accuracy	0.023 mm (0.0009 in)		0.025 mm (0.0009 in)
Volumetric Accuracy*	9.6 m³: 0.062 mm (339 ft³: 0.0024 in) 17.6 m³: 0.072 mm (622 ft³: 0.0028 in)		/
Volumetric accuracy (with Photogrammetry)	0.044 mm + 0.012 mm/m (0.0017 + 0.0004 in/f)		0.025 mm + 0.015 mm/m (0.0009 + 0.0005 in/ft)
Scan Speed	Up to 3,070,000 points/s		100 measurement/s
Max. FOV	650 x 580 mm (25.5 x 22.8 in)		/
Point Distance	0.01 ~ 10 mm (0.0003 ~ 0.39 in)		/
Scan Depth	400 mm (15.7 in)		/
Object Recommend	0.1 ~ 10 m (0.0039 ~ 0.39 in)		/
Weight	FreeTrak: 7.2 kg (15.8 lb)	Scanner: 1.47 kg (3.2 lb)	0.5 kg (1.1 lb)
Dimensions	FreeTrak: 1079 x 237 x 110mm (42.4 x 9.3 x 4.3 in)	Scanner:281 x 283 x 290 mm (11.1 x 11.1 x 11.4 in)	70 x 150 x 340 mm (2.7 x 5.9 x 13.3 in)
Light Source	FreeTrak: Infrared LED	Scanner: 50 cross laser lines, 7 parallel laser lines, 1 single laser line	/
Laser Class	Class II		
Working Distance	300 mm (11.8 in)		
Connection Standard	USB 3.0、IEEE802.11n/ac、IEEE802.3ab		
Output Formats	.stl、.asc、.3mf		
Operating Temperature Range	-10 ~ 40° C (14 ~ 104° F)		
Operating Humidity Range	10 ~ 90%RH		
Certifications	Pending		
Recommend Computer configuration	OS: Windows 10 pro(64 bit)/Windows 11 pro(64 bit); CPU: Intel Core i7-12800H or above; Video Card: NVIDIA GeForce RTX 3070 or above Video Memory: 6G or above ; RAM: 64G or above; USB port: USB 3.0		

Notice: SHINING 3D reserves the right to modify or adjust the above specifications and pictures.

*Based on VDI/VDE 2634 part3. Sphere-spacing error is assessed with traceable length artefacts and markers by measuring these at different locations and orientations within the working volume, in the accuracy lab with environment conditions: temperature 20 ± 0.5°C; humidity 40 ~ 60% RH.