SHINING 3D

FreeScan Trak Pro

Portable Optical Coordinate Measuring System

V·GER

COMPETENCE IN 3D SCANNING

FreeScan Trak Pro

FreeScan Trak Pro Optical Tracking 3D Scanning System, independently developed by SHINING 3D, uses special technology to obtain complete and accurate 3D data of medium and large objects by capturing the spatial position of the scanner head in real time with an optical tracker. It is suitable for various static and dynamic applications, including large scale 3D inspection in aerospace, automotive, shipping and energy industries etc.

Dynamic referencing

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

Metrology-grade measurements

The accuracy is up to 0.023mm,and the system has high repeatability.

Fine and rich details

Fine scanning with 7 parallel blue laser lines.Get the complete 3D data of the workpiece details.

High efficiency

Rapid scanning with 34 crossed blue laser lines.Efficient acquisition of 3D data for medium to large workpieces.

Extendable measuring range

Wide measuring range covering from 0.1m upwards. Supports transfer station/linkage method to extend the measuring range.

Multiple alignment modes

Support optical tracking/markers dual mode.Flexible switching for different scenes.

Easy Operation

Inheriting the lightweight and ergonomic design, the user-friendly scanning software enables an easy operation and shortens the learning curve.

Wide range of material adaptations

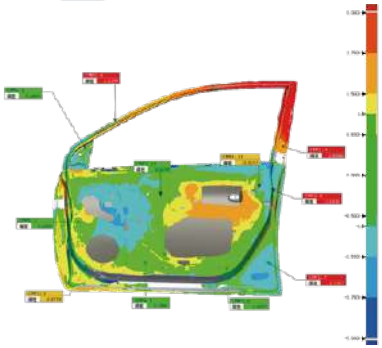
Supports scanning of black and high-reflective surfaces, more efficient scanning process.

3D DATA

Car door

SUV car

Inspection data



Heat exchanger ((L:5 m, H:2 m)

APPLICATIONS

Automotive

Transport

Aerospace

Energy manufacturing

Mould and die inspection

Mechanical manufacturing

SPECIFICATION

	FreeTrak Pro	FreeScan TE17
Accuracy	Up to 0.023 mm	
Volumetric Accuracy	9.1 m^3：0.062 mm； 16.6 m^3: 0.072 mm	
Resolution	0.02 mm	
Measurement Rate	1370000 measurements/s	
Part Size Range(recommended)	0.1 ~ 10 m	
Weight	7.2 kg	1.47 kg
Dimensions	1079 mm x 237 mm x 110mm	281mm x283mm x290mm
Light Source	Infrared LED	34 cross blue laser lines, 7 parallel blue laser lines
Laser Class	Class II	
Stand-off Distance	300 mm	
Depth-of-field	400 mm	
Scanning Area	600 mm x 500 mm	
Connection Standard	EEE802.11 n/ac、IEEE802.3ab	
Output Formats	STL, ASC, OBJ, PLY, 3MF	
Operating Temperature Range	-10 °C - 40 °C	
Operating Humidity Range （non-condensing）	10% - 90%	

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

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