



SHINING 3D

EinScan *TRAK*

Wireless Marker-Free Tracking System

Trak in, Markers out



Wireless Marker-Free Tracking System

Even on Low-Feature Surfaces

Built-in retroreflective targets allow real-time tracking of the spherical scanner. No object markers required — even on large, smooth surfaces.



One System. Two Work Modes. Smart Merge.

Tracking Mode + Handheld Scanner Mode

Use Tracking Mode for large-area scanning, with an ultra-large 15 m² tracking volume that gives you more freedom to move and capture data with greater efficiency. Then detach the scanner for a lighter, more flexible scanning experience—ideal for hard-to-reach areas and small objects.



Track Large. Scan Fine. Merge Smart.
4m wireless tracking range. Up to 0.05 mm resolution. Merge multi-mode, multi-resolution data into one model.

Three Laser Modes



19+19 crossed laser lines
Fast capture for large surfaces.



7 parallel laser lines
Fine details and sharp edges.



Single laser line
Deep holes and recessed areas

5MP Texture

High-Definition. True-Color.

Capture true-color textures for heritage, art, research, AR/VR, and digital content.



Highly Adaptable Wireless Workflow

Outdoor-Ready. Long-Lasting. Travel-Ready.



Various
Materials



110,000
Lux



Up to
5.5 h



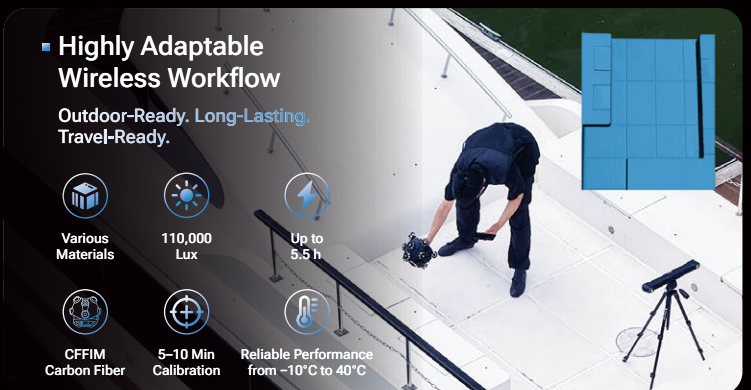
CFFIM
Carbon Fiber



5-10 Min
Calibration

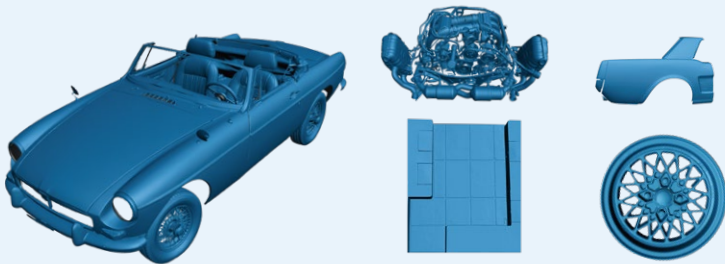


Reliable Performance
from -10°C to 40°C



Applications

• Industry-Specific Customization



• Product & Industrial Design



• Heritage Preservation & Art



• AR, VR & Digital Content



• Education & Scientific Research



Specification

EinScan Trak		
Work Mode	Tracking Mode	Handheld Scanner Mode
Scan Mode	Laser	Laser
Light Source	19+19 Crossed Laser Lines / 7 Parallel Lines / Single Line	
Volumetric Accuracy	Up to 0.1 mm	
Resolution	0.05 ~ 10 mm	
Scanning Speed	2,630,000 Points/s	
Working Distance	Tracking Distance: 800 - 4000 mm	100 - 500 mm
MAX FOV	4796mm × 4174mm @ 4000 mm	547mm × 463mm @ 500 mm
Tracking Mode	15 m³	/
Alignment Mode	Tracking / Global Marker	Marker / Global Marker / Feature
Camera Resolution	Tracker Cameras: 5MP * 2	Depth Cameras: 2MP * 2; Texture Camera: 5MP * 1
Output Formats	STL, OBJ, PLY, 3MF, ASC	
Laser Class	Class 2	
Operation Conditions	Temperature: -10°C ~ 40°C	
Certifications	CE, FCC, ROHS, WEEE, FDA, SRRC, IP50	
MIN Configurations for PC	Windows 10/11 (64-bit); Graphics Card: NVIDIA GeForce RTX 3060; VRAM: 6 GB or above; RAM: 32 GB or above, DDR5 dual-channel; Interface: USB 3.0; LAN; Processor: 13th Gen Intel® Core™ i7-13650HX or above / AMD Ryzen7 7735H with Radeon Graphics or above;	
Power Source	5.5 hours of continuous use (Tracker 5400 mAh Batteries * 2; Scanner 5400 mAh Batteries * 2)	3.5 hours of continuous use (5400 mAh Battery * 1)
Interface	USB type-C * 2	USB type-C * 1
Dimension	Tracker: 462 × 8 × 54 mm / 18.15" × 2.68" × 2.13"	Scanner: 199 × 193 × 172 mm / 7.83" × 7.59" × 6.77" (Handheld Scanner) 244 × 186 × 238 mm / 9.57" × 7.32" × 9.37" (Spherical Scanner)
Net Weight	1.02 kg / 2.23 lbs	1.46 kg / 3.21 lbs (Spherical Scanner) 0.48 kg / 1.17 lbs (Handheld Scanner)

SHINING 3D Tech Co., Ltd.

- ① Hangzhou, China
P: +86-571-82999050
No. 1398, Xiangbin Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, China, 311258
- ① Hong Kong, China
P: +852 2334 8468
Flat 303B, 3/F, Tower 2, Enterprise Square 1, 9 Sheung Yuet Road, Kowloon Bay, KLN, HK, China
- ① Tokyo, Japan
P: + 03-6380-7622
Tradepia Odaiba, 2-3-1 Daiba, Minato-ku, Tokyo

SHINING 3D Technology GmbH

- ① Stuttgart, Germany
P: +49-711-28444089
Breitwiesenstraße 28, 70565, Stuttgart, Germany
- ① San Leandro, United States
P: +1(888) 597-5655
2450 Alvarado St #7, San Leandro, CA 94577
- ① Tampa, United States
2807 W Busch Blvd, Suite 200, Tampa, FL 33618

SHINING 3D Technology Inc.



Official Website



Einstar Community



Official Online-store