



SHINING 3D

# EinScan Rigel

The Tri-Mode Laser 3D Scanner

**Rapid • Refined • Reliable**



- Wireless

- Built-In Computing

- Hybrid Light

# The Tri-Mode Laser 3D Scanner

EinScan Rigil is the world's first Tri-Mode 3D scanner with built-in computing, wireless solution and hybrid light technology. EinScan Rigil offers a fully integrated 3D scanning wireless workflow with triple work modes that effectively eliminates the traditional compromise between computing power and flexibility.

It provides high quality models with  $0.04 + 0.06$  mm/m volumetric accuracy and high geometric resolution up to 0.05 mm. Its hybrid types of light sources — 25+25 crossed laser lines, 7 parallel blue laser lines, and infrared VCSEL — which paired with two separate groups of tailored cameras to ensure versatile performance and peak efficiency for objects of wide-range of sizes and surface types.



## Hybrid Light Source

### 25+25 Crossed Laser Lines

For high-speed scanning, delivers top-tier efficiency and flexibility.

## 7 Parallel Laser Lines

For fine details, provides consistent results

Scan Data

*Resolution up to* **0.05 mm**

## IR Rapid

VCSEL Infrared-powered scanning solution for high efficiency and wide coverage of medium to large objects, with eye safe portrait scanning.

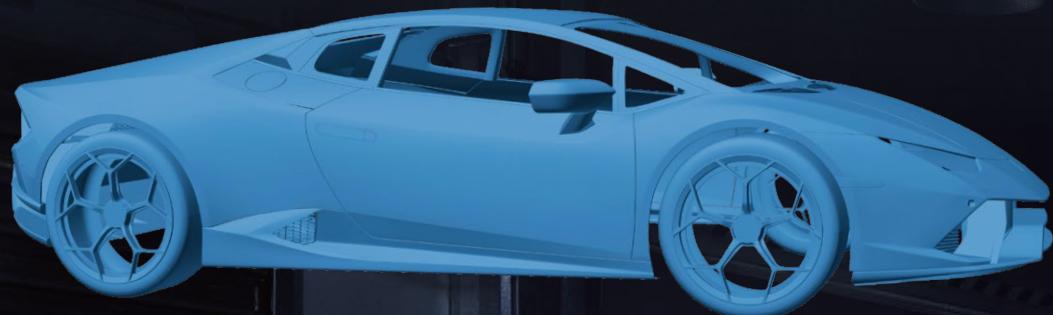
Scan Data



# Two Scanners In One

## 2 Groups of Cameras and Projectors

EinScan Rigel's 2 separate groups of cameras are specifically designed to capture different light sources, enables best adaptability to laser and IR light source respectively; to achieve better data recognition under strong environmental light, to ensure precise data captured even in complex lighting environments.



Scan Data



***Reliable Volumetric Accuracy***

***Up to 0.04 + 0.06 mm/m***

# Triple Work Modes

## **Unlock MAX Performance And Flexibility**

The EinScan Rigel offers three operating modes:

### **Standalone Mode**

No PC connection required, all scanning and processing tasks are completed directly on the hardware, delivering exceptional portability and ease of use.

### **Wireless PC Mode**

Leveraging built-in Wi-Fi 6, this mode enables seamless wireless scanning and allows connection to a powerful computer, optimizing performance for complex tasks and large data volume.

### **Wired PC Mode**

Maintaining availability and maximum scanning speed and data volume in complex network environments.



***Superior adaptability to scan objects with dark and reflective metal surface without spray***

# Marker-Free Laser Scanning

EinScan Rigel features a special tracking algorithm, which provides marker-free blue laser scanning through a Laser + IR hybrid scan mode in both Standalone mode and PC mode, it also delivers higher performance in PC based computing power for smoother experience. This enables better efficiency than traditional marker-based laser scanning and better data quality than marker-free IR scanning.



## Working Efficiently in Sunlight Outdoors

Both Blue Laser and Infrared VCSEL projectors have strong environment light adaptability, which ensure smooth scanning experience under strong sunlight.

# 5MP Full Color Texture Scanning

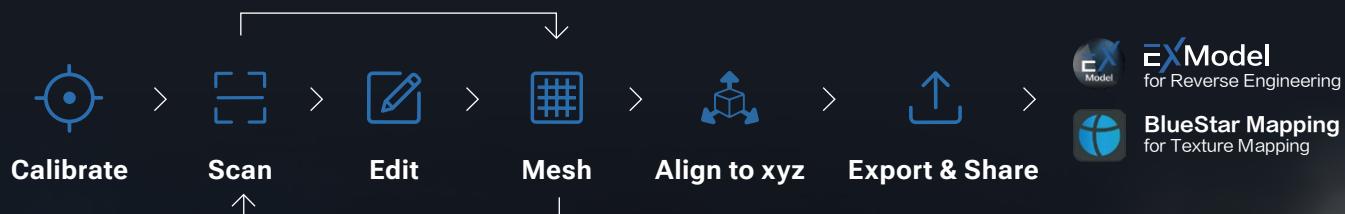
EinScan Rigel is equipped with a 5MP high-definition camera that can restore high-quality texture details, allowing designers, engineers and artists to maintain high-fidelity modeling and rendering during the digitization process, providing more precise information for subsequent analysis and creation.



# For Prosumer, For Automotive

EinScan Rigel is designed to comprehensively address the 3D modeling needs of consumers in the automotive aftermarket industry.

It significantly enhances efficiency in generating high-quality 3D models, combining fast scanning capabilities, streamlined professional workflows, lightweight computing solutions, and rich data editing functions.



\*The Screen Casting (Standalone Mode Only) feature seamlessly integrates into every stage of the workflow, enhancing team productivity through real-time collaboration.



## All-In-One Powerful Hardware



32GB DDR5 RAM,  
32GB eMMC+ 1TB SSD ROM



Built-in 2 x 5500mAh  
Replaceable Batteries



6.4" 2K AMOLED  
Touchscreen

# EXScan Rigel

EXScan Rigel is a dedicated PC software designed specifically for the EinScan Rigel scanner, covering the full spectrum of advanced professional scanning workflows, scanning, data modification, closed surface generation, model editing, to export and sharing.

When paired with the EinScan Rigel scanner, it delivers a seamless, flexible, and portable scanning experience that combines stability and high-quality results.



High-Speed Scanning and Processing Algorithms



Rich Editing Function and User-Friendly Design



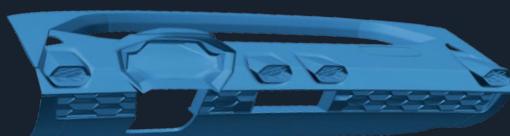
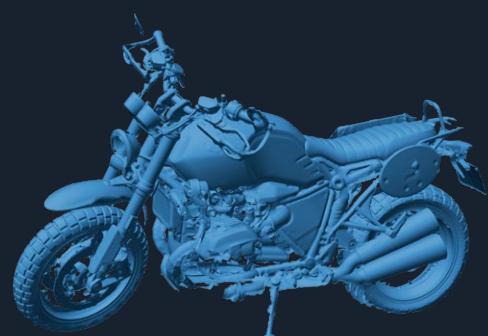
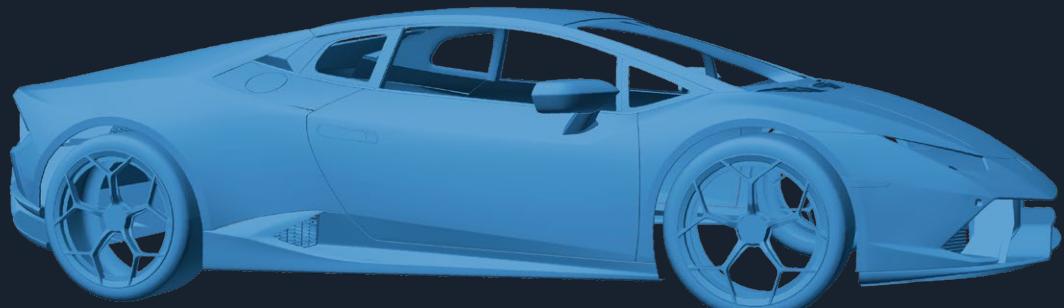
Professional Modelling Workflow

- 3/6/12 mm Marker Supported
- Global Marker Alignment
- Auto Detecting Plane
- Dynamic Laser Switching
- Scan Rewind
- Auto Hole Filling
- Remove small Floating Parts
- Cutting Plane Tool
- Resume Edited Data Scanning
- Global Optimization
- X-Y-Z System Alignment
- Model Measurement



# Applications

- Aftermarket & Engineering



- AR, VR & Digital Content



- Heritage Preservation & Art



- Education & Scientific Research



# TECHNICAL SPECIFICATIONS

## EinScan Rigel

<b>Work Mode</b>		Wireless Standalone For extra computing resource: PC- Wireless / PC-Wired
<b>Scan Mode</b>	Laser HD	IR Rapid
<b>Light Source</b>	25+25 crossed laser lines	7 blue laser parallel lines
<b>Resolution</b>	0.05 ~ 10 mm	0.2 ~ 10 mm
<b>Scanning Speed</b>	4,800,000 points/s	1,480,000 points/s
<b>Working Distance</b>	170 ~ 550 mm	160 ~ 1500 mm
<b>Alignment Mode</b>	Global Markers / Markers / Features	Global Markers / Markers / Features / Texture / Hybrid
<b>Volumetric Accuracy</b>	Up to 0.04 + 0.06 mm/m	Up to 0.1 + 0.4 mm/m
<b>Camera Resolution</b>	3D: 2.3MP*2 1.3MP*2; Texture: 5MP	
<b>Output Formats</b>	STL, OBJ, PLY, 3MF, ASC	
<b>Laser Class</b>	Class II	/
<b>Hardware</b>	CPU: 8 core, 2.4GHz; Hard Drive: 1T SSD ROM; 32GB DDR5 RAM; 6.4"2K AMOLED Touch Screen	
<b>Operation Conditions</b>	Temperature -10°C ~ 40°C	
<b>Certifications</b>	CE, FCC, ROHS, WEEE, FDA, SRRC, IP50	
<b>Recommended Configurations for PC</b>	Win11, Professional 22H2 (64-bit); Graphics card: NVIDIA GeForce RTX 3060 Laptop GPU or above; VRAM: 8 GB or above; RAM: 64 GB or above, DDR5 dual-channel; Interface: USB 3.0; Processor: 13th Gen Intel® Core™ i7-13700H or above;	
<b>Interface &amp; Power Source</b>	USB Type-C Battery: 5500mAh*2; Support 60W-PD3.0 Charger	
<b>Dimension</b>	(H*D*W) 233 × 180 × 72.8 mm	
<b>Net Weight</b>	870 g (batteries included)	



# SHINING 3D

Follow us on



Facebook



Instagram



LinkedIn



YouTube



EinScan Expert

### SHINING 3D Tech Co., Ltd.

- 📍 Hangzhou, China  
P: 400-0799-666  
No. 1398, Xiangbin Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, China, 311258

### SHINING 3D (HK) COMPANY LIMITED.

- 📍 Hong Kong, China  
P: 00852-23348468/23348568  
Room 303A, 3/F, Tower 2, Enterprise Square Phase 1, 9 Sheung Yue Road, Kowloon Bay, Kowloon, Hong Kong

### SHINING 3D Technology GmbH.

- 📍 Stuttgart, Germany  
P: +49-711-28444089  
Breitwiesenstraße 28, 70565, Stuttgart, Germany
- 📍 Barcelona, Spain  
Calle 27, 10-16, Sector BZ, 08040 Barcelona, Spain

### SHINING 3D Technology Inc.

- 📍 California, USA  
P: +1415-259-4787  
2450 Alvarado St, Unit 7, San Leandro, CA 94577
- 📍 Florida, USA  
2807 W Busch Blvd, Suite 200, Tampa, FL 33618

### SHINING 3D Technology Japan Inc.

- 📍 Tokyo, Japan  
Tradepia Odaiba, 2-3-1 Daiba, Minato-ku, Tokyo