



SHINING 3D

EinScan *Rigil* Lite

Lite to Start. Light to Create.



Hybrid-Light Source · Fully Wireless · Multi-Tracking Mode · Full On-Device Workflow

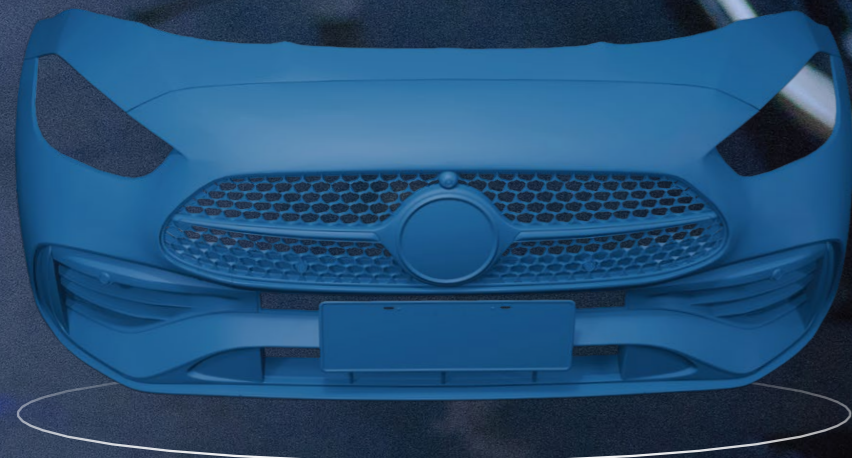
EinScan Rigil Lite

Professional All-in-One 3D Scanner

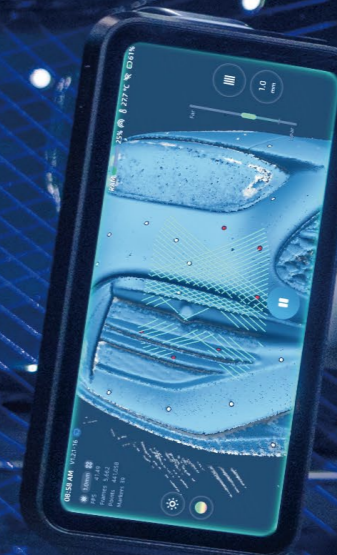
The Rigil Series represents the complete form of all-in-one 3D scanners, integrating hardware components such as the scanner, display, computing, storage, and power supply into a unified design, with the entire workflow independently accomplished on-device through software. Equipped with 17+17 crossed & 7 parallel blue laser lines, and infrared VCSEL hybrid light sources, Rigil Lite enables wireless operation and innovative multi-alignment technology for seamless tracking.

It reliably captures detailed scans of reflective metals, black plastics, and various materials despite environmental lighting conditions, supporting modeling of objects of all sizes. The system achieves high-quality models with resolution of 0.05 mm.

As a truly professional all-in-one handheld scanner, Rigil lite redefines the industry standard by delivering comprehensive versatility in 3D scanning solutions. In Rigil series, the EinScan Rigil Lite offers a cost-effective option that retains core capabilities balancing affordability with essential features for 3D scanning daily works.



Scan Data



Advanced Multi-Tracking Mode (IR & Laser)

Tracking Is Essential, Efficiency Matters Most.

IR Mode: Feature / Marker / Texture (freely combinable) / Global Markers

Laser Mode: Feature / Marker / Global Markers

The tracking algorithm identifies shared references—markers, features, or texture—frame to frame for smooth, stable tracking, even during fast movement. Switch modes freely as scanning conditions change.

Combine Freely for Maximum Efficiency



Feature+Marker+Texture



Feature+Texture



Markers

Maximum Stability



Texture Tracking

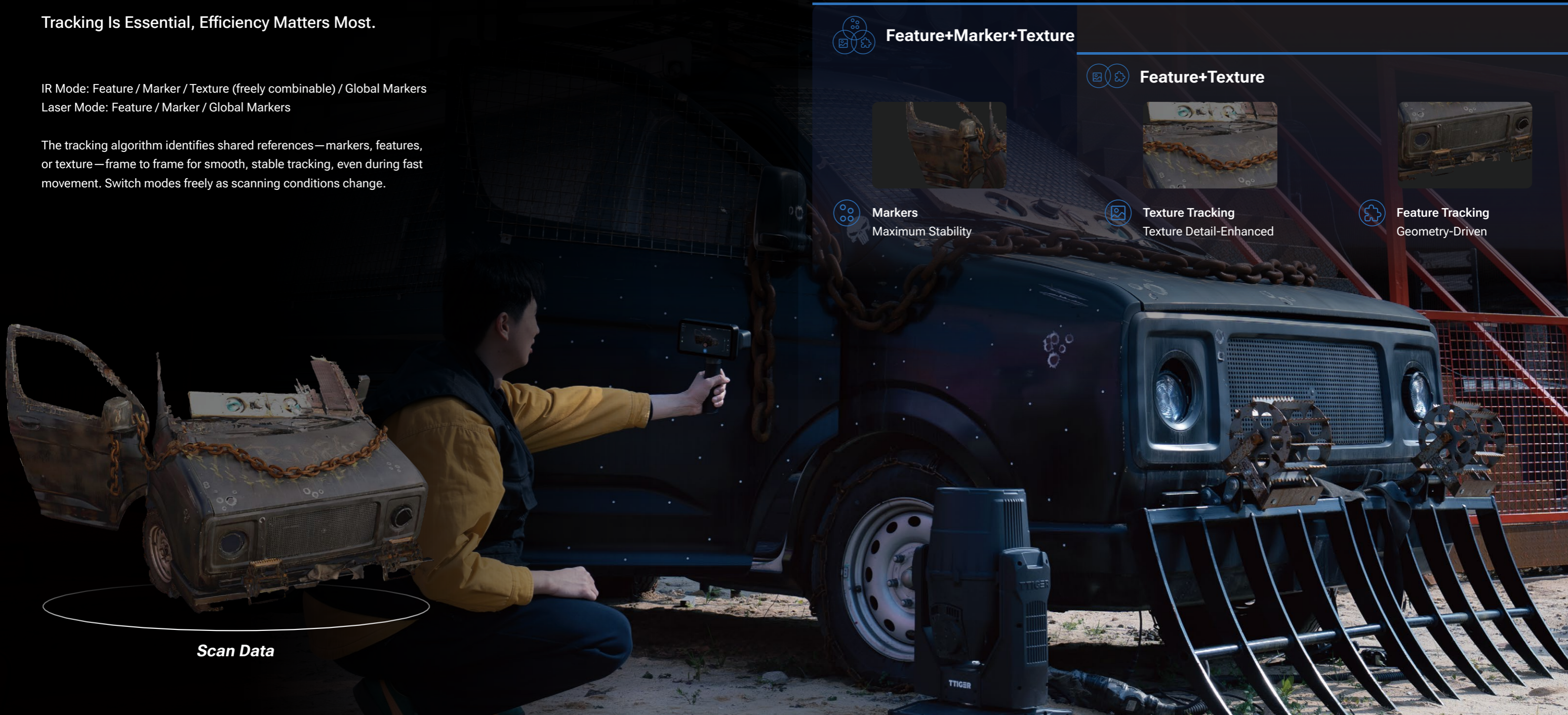
Texture Detail-Enhanced



Feature Tracking

Geometry-Driven

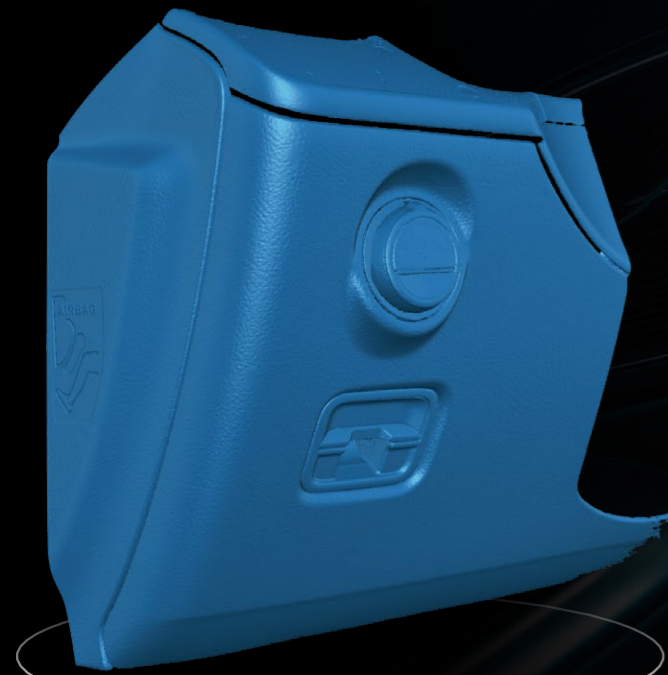
Scan Data



Marker-free Laser Scanning

No markers. Less prep. Faster starts.

For high-featured surface, and for tight spaces or hard-to-place markers (e.g., motorcycle structures), enable marker-free laser scanning: start from a feature-rich area → cover by sections → refine details locally. Skip marker prep and keep the workflow moving.



Scan Data





Hybrid Light Source


Built on Two Independent Camera & Projector Groups

3D Cameras for Blue Laser x2

5MP Texture Camera

 IR VCSEL Projector

 7 Parallel Laser Lines Projector

 17+17 Crossed Laser Lines Projector

3D Cameras for IR x2



512GB Storage + 64GB eMMC
Your entire project library, on device.



Built-in computing
No PC required. 24GB RAM for a full on-device workflow.



6.4-inch 2K Touchscreen
Drag. Zoom. Confirm—right on screen



Built-in Wi-Fi 6



Rechargeable & Replaceable Battery
Swap and keep scanning—no downtime, up to 3 hours of runtime



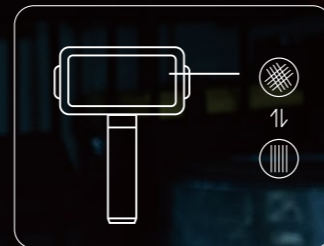
Ergo-Grip Design
One-hand stable, made for longer sessions



Two-Laser Modes: Crossed-Line Speed, Parallel-Line Detail

Fast Scan. Fine Scan. Switchable During Scanning.

17+17 crossed laser lines are built for speed, coverage, and steadier tracking. 7 parallel laser lines are built for finer details and sharper edges. Switch between them in 1 second during the same scan, whenever the task requires.



*Switch during scanning.



Scan Data



17+17 crossed laser lines
Speed + Stability.

For high-speed scanning, delivers efficiency and flexibility. Capture large surfaces quickly with steadier tracking. Get a usable model within one go —less waiting, less rework.



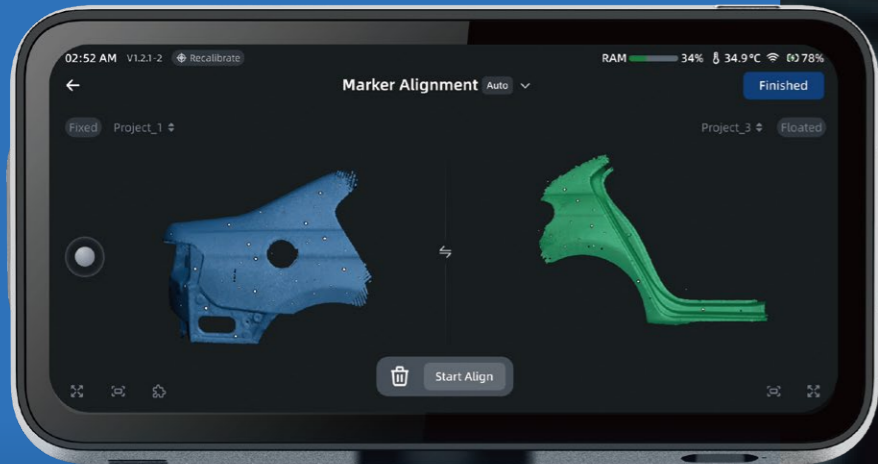
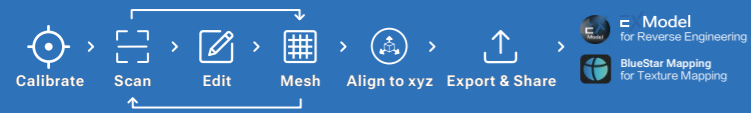
7 parallel lines
Real Detail. Sharp Edges.

For fine details, provides consistent results. Use parallel lines when details matter: scan gear teeth, inscriptions, or PCB traces with one focused pass. Sharper edges and cleaner results—less cleanup before export.



Full on-device workflow

Scan → Process → Export, all on one device.



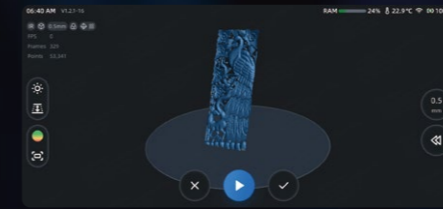
Multi-Projects Alignment

A new way to scan: Break down complex tasks into small and manageable parts and merge them back to final model



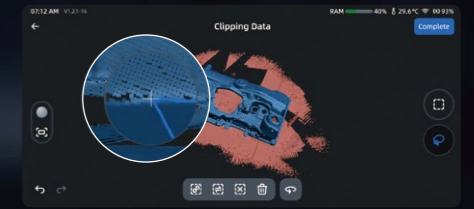
Scanning Rewind & Resume

Real-time rollback to previous stage, perfect every time.



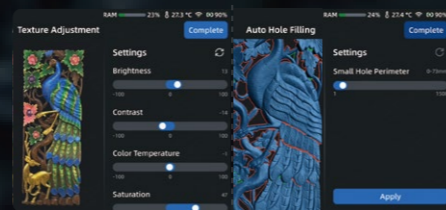
Auto-Cutting Plane

Automatically identifies and filters out the base surface you don't need



Flexible Point Clouds Editing

Connect domain & inverse for unnecessary points quick removing, magnifier tool for clearer, detailed editing



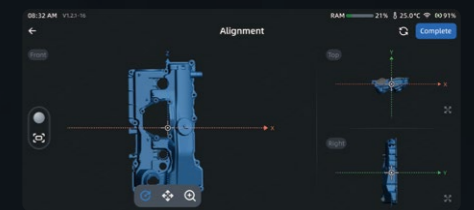
Rich Mesh Editing Functions

All with one-click operation for rapid model customization



Advanced Noise Reduction

Deliver crystal-clear data quality and larger volume



Multi-Coordinate Alignment

Easy to operate with virtually clear results, seamlessly move to model design



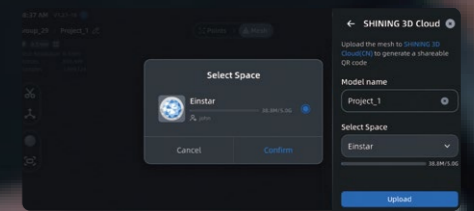
Model Measurement

Quickly retrieve model dimensions — No traditional calipers needed



U-Drive Mode Innovation

Export model as U dish, no software required



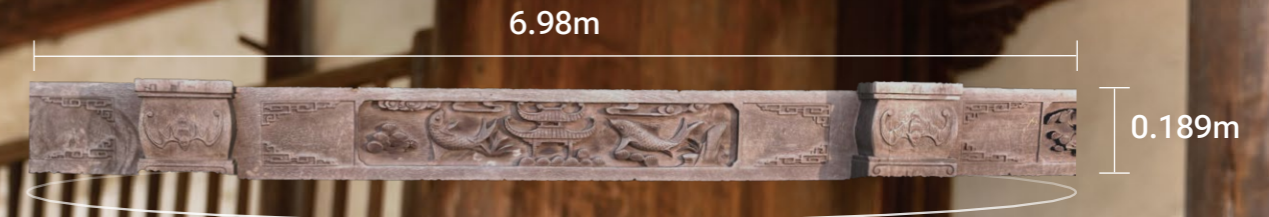
SHINING3D Cloud Sharing

Collaborate and connect in seconds, share your achievement right now!

Scene-Adaptive Scanning: Dark & Reflective Surfaces (No Spray)

Optimized for Reflective and Dark Materials.

For shiny or reflective parts, choose the reflective preset:
Less prep, fewer retries—get results faster without spray.



Scene-Adaptive Scanning: Outdoor

In Sunlight or at Night. Still Smooth.

For outdoor scanning, choose the Outdoor preset:
capture the main outline first → walk around for full coverage → refine deep corners and detail areas.
Finish the job on-site with fewer rescans.

IR VCSEL: Fast, Wide, Eye-Safe, Marker-free

Rapid Coverage for Big Objects—Eye-Safe for Portrait Scanning.

Use IR scan for wide coverage on medium-to-large objects. It also supports eye-safe portrait scanning and reliable outdoor operation.

Advanced Hybrid Tracking combines Feature, Marker, Texture, and Global Marker Alignment for stable tracking across different jobs.



Scan Data

5MP Texture: Full-color Scanning

True-to-Life. Color-Accurate.

Bring out richer texture detail and faithful color reproduction for digital models that feel closer to the real object on screen.

*5MP texture capture is available in both Laser and IR modes.



Scan Data

Scan-to-Design: Bridging Reality to Digital

EinScan App + EXScan Rigil + EXModel

EXScan Rigil is an intuitive software platform for PC computing

It streamlines workflows through a unified interface, reduces system load, and improves performance, allowing faster scanning, greater mobility, and lower operating costs.



More Computing Power



More Editing Tools

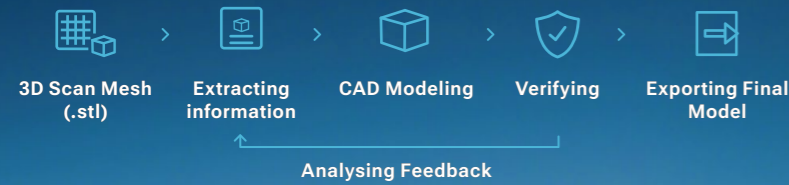


Detailed & Multiple Views



Wide Data Format

EXModel is a powerful gateway that simplifies CAD modeling, from 3D scanning to manufacturing. It provides a comprehensive set of tools that enable you to transform a mesh into a professional-quality CAD solid model in just a few simple steps.



Applications

• Aftermarket & Engineering



• 3D Printing & Personal Manufacturing



• Heritage Preservation & Art



• AR, VR & Digital Content



• Education & Scientific Research



SPECIFICATIONS

EinScan *Rigil*^{Lite}

Work Mode	Standalone /PC- Wireless / PC-Wired (for extra computing resource)		
Scan Mode	Laser HD		IR Rapid
Light Source	17 + 17 Crossed Laser Lines	7 Blue Laser Parallel Lines	IR VCSEL
Resolution	0.05 ~ 10 mm		0.2 ~ 10 mm
Scanning Speed	2,940,000 points/s	1,620,000 points/s	16,000,000 points/s
Working Distance	170 ~ 550 mm		160 ~ 1500 mm
Alignment Mode	Markers/Features/Global Marker		Markers/Features/Texture(freely combinable)/Global Marker
Camera Resolution	3D: 2.3MP*2 1.3MP*2.; Texture: 5MP		
Output Formats	STL; OBJ; PLY; 3MF; ASC		
Laser Class	Class 2		
Hardware	Regular Edition: CPU: 8-core, 2.4GHz; RAM: 24GB LPDDR5; Storage: 64GB eMMC + 512GB SSD; 6.4-inch 2K AMOLED Touchscreen Limited Edition: CPU: 8-core, 2.4GHz; RAM: 32GB LPDDR5; Storage: 64GB eMMC + 1TB SSD; 6.4-inch 2K AMOLED Touchscreen		
Operation Conditions	-10°C~ 40°C		
Certifications	CE, FCC, ROHS, WEEE, FDA, SRRC, IP50		
Recommended PC Configurations	OS: Win11 (64-bit); Processor: 13th Gen Intel®Core™ i7-13700H or above; 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;		
Interface & Power Source	USB Type-C; Battery: 5500mA*2 Support 60W-PD3.0 Charger		
Dimension	(H*D*W) 233 × 180 × 72.8mm		
Net Weight	870g (batteries included)		

EinScan Rigil Lite - EN 20260331 -V0.54

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