



SHINING 3D

# EinScan H2

High Texture Resolution  
Handheld 3D Scanner

Hybrid LED &  
Infrared Light Source



# Introducing the EinScan



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The EinScan H2 improves on its predecessor with a 5MP resolution texture camera, enhanced accuracy, and 3 infrared VCSEL projectors for more photorealistic textures and better quality data. Its wide scanning area and adjustable working distance make it suitable for various scenes and objects, both small and large, in narrow or wide spaces. The EinScan H2 is an efficient 3D scanning tool that can revolutionize your workflow.

## Healthcare and Forensic



## Cultural Heritage



# Scan H2



Digital Art

Design

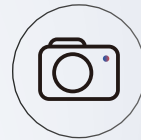
Education



# Key Features



**3 Infrared VCSEL Projectors**



**Data Acquisition Camera**



**5MP Texture Camera**



**White Light Projector**

# Photorealistic Texture

## 5MP Texture Camera

Captures rich, bright colors and clean textures for photorealistic 3D models.



· EinScan H2 Scanned Data



· EinScan H2 Scanned Data



· 3D Printed Figure

# Superior Environmental Adaptability

## 3 VCSEL Projectors

Provide superior material and lighting adaptability, effortlessly handling various surface types and scanning environments.



# Hybrid Light Source

Dual light sources improve scanning efficiency. LED light offers fast 3D scanning with accurate, high-quality data.

- Various scenes from small to large
- Scanning speed: 1,200,000 points/s
- Accuracy: Up to 0.05mm
- Point distance: Up to 0.2mm



Infrared VCSEL is ideal for capturing dark surfaces, for human body scanning, and for bright-lit environments.

- ✓ Dark color objects
- ✓ Human body scan
- ✓ Outdoor scan

- Accuracy: Up to 0.1mm
- Point distance: Up to 0.2mm



# Ultra-wide FOV and Adjustable Working Distance

## Adjustable working distance

Enables working distance adjustment from 200mm to 1500mm, to adapt to narrow or wide scenes and objects of various sizes.

## FOV (Field of View) up to 780mm x 900mm

Offers flexibility in scanning volume to capture large-sized objects quickly.

## Marker-free scanning

Scans rich geometric features without the hassle of markers.



· EinScan H2 Scanned Data



# Optimized for Face and Body 3D Scanning

## Flashless infrared technology

Ensures optimal comfort during face and body 3D scanning.

## Advanced hair enhancement algorithm

Designed to successfully capture light and dark hair.

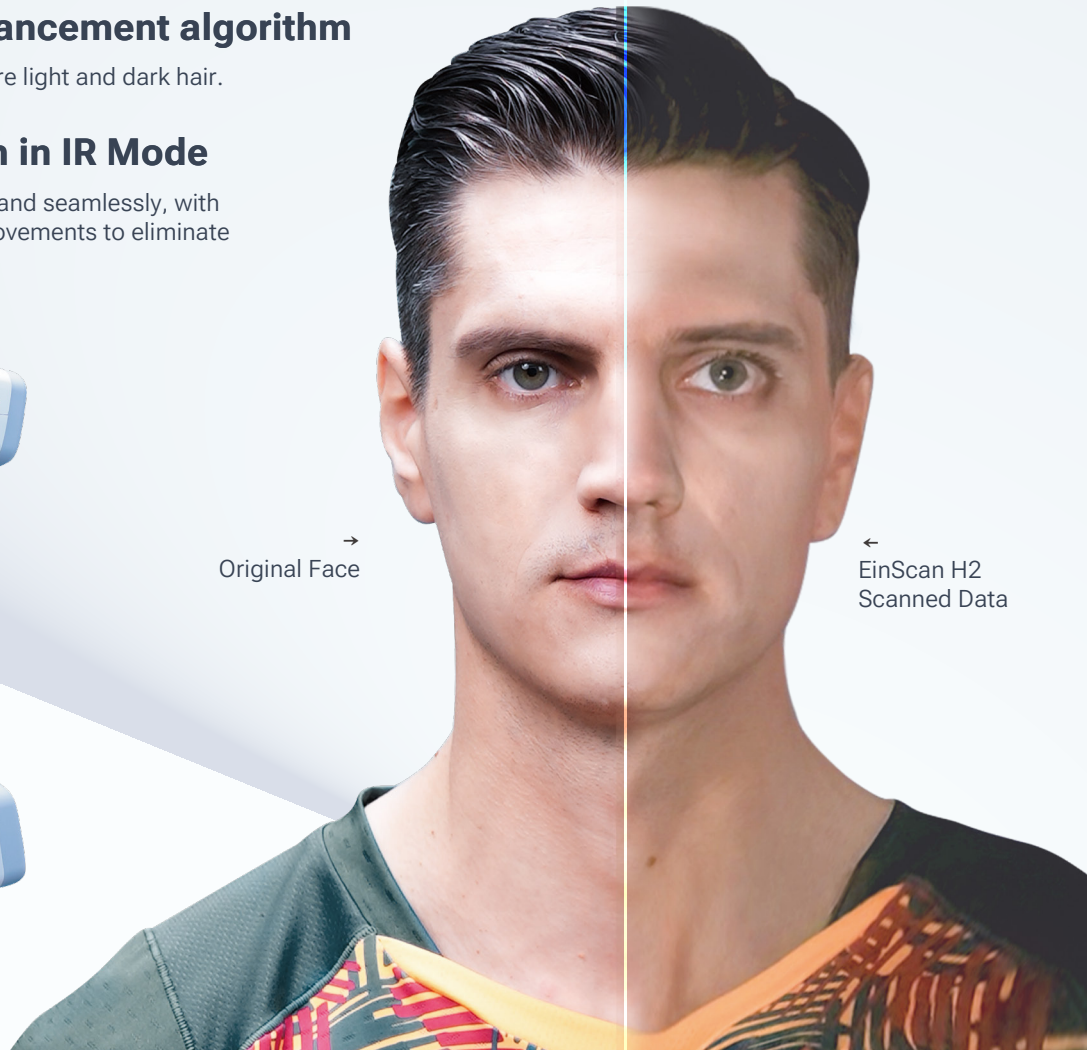
## Non-rigid algorithm in IR Mode

Captures 3D body data quickly and seamlessly, with auto-compensation of slight movements to eliminate misalignment risks.



→  
Original Face

←  
EinScan H2  
Scanned Data



# User-Friendly Design

## Ergonomic design

The EinScan H2 is portable, easy to grasp, and intuitive to operate.

## Remarkable scanning software

Delivers a professional easy-to-use 3D scanning interface with automated processing, intuitive UI design, and intelligent data quality indicators.



## FootStation 2 Add-on

FootStation 2 for EinScan H2 accelerates and simplifies foot scanning by capturing instep and sole data simultaneously using a mirror, saving time with automatic alignment.

It suits application in foot orthopedics and the customized footwear industry.

# EXModel

EXModel is a powerful bridge that simplifies CAD modeling from 3D scanning to manufacturing. With the integration of EXScan H, you can now seamlessly import data to EXModel with a single click after completing a scan. EXModel offers a comprehensive set of tools that enable you to create professional-grade CAD digital models that are compatible with your CAD software.



Effortless Mesh Processing



Precision CAD Creation

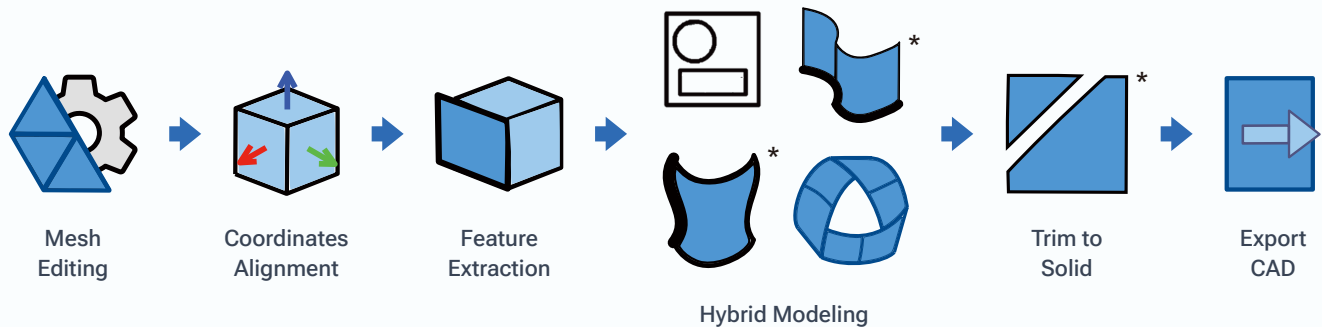
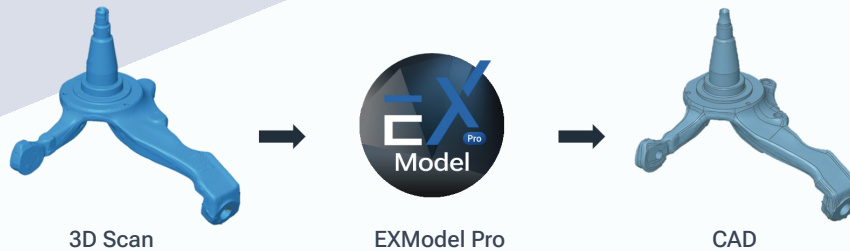


Enhanced Data Utilization



Cost-Effective Solution

## Workflow



\*30 days Free Trial is available to apply to EXModel.

\*Function features marked with asterisk are available in EXModel Pro.

# TECHNICAL SPECIFICATIONS

## EinScan H2

Scan Mode	White Light Mode	IR Mode
Light Source	White LED Light, Visible	Infrared VCSEL Light, Invisible
Scan Accuracy	Up to 0.05mm	Up to 0.1mm
Volumetric Accuracy	0.05mm±0.1mm/m	0.1mm±0.3mm/m
Point Distance	0.2mm-3mm	
Best Working Distance	470mm	
Effective working Distance Range	200mm-700mm	200mm-1500mm
Maximum FOV	420mm*440mm	780mm*900mm
Scan Speed	1,200,000points/s	1,060,000points/s
Texture Resolution	5MP	
Align Modes	Markers Alignment, Feature Alignment, Hybrid Alignment, Texture Alignment	Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers
Safety	LED light (eye-safe)	CLASS I (eye-safe)
Built-in Color Camera	Yes	
Texture Scan	Yes	
Software Included	EXScanH; Solid Edge SHINING 3D Edition	
Output Formats	OBJ, STL, ASC, PLY, P3, 3MF	
Size	108 mm*110 mm*237 mm	
Scanner Body Weight	731.1 g	
Operating Temperature Range	0°C ~ 40°C	
Operating Humidity Range	10% RH ~ 90% RH	
Certifications	CE, FCC, ROHS, WEEE, KC	
Interface	USB 3.0	
Input Voltage	DC: 12 V, 5.0 A	
Recommended Configuration	OS: Win10/11, 64-bit; Graphics card: NVIDIA GTX/RTX, RTX2060 or better; Video memory: ≥6GB; Processor: Intel I7-11700 or better; Memory: ≥64GB	
Required Configuration	OS: Win10, 64-bit; Graphics card: NVIDIA GTX1060; Video memory: ≥4GB; Processor: Intel I7-8700; Memory: ≥16GB	

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