



SHINING 3D

# EinScan H2

High Texture Resolution  
Handheld 3D Scanner

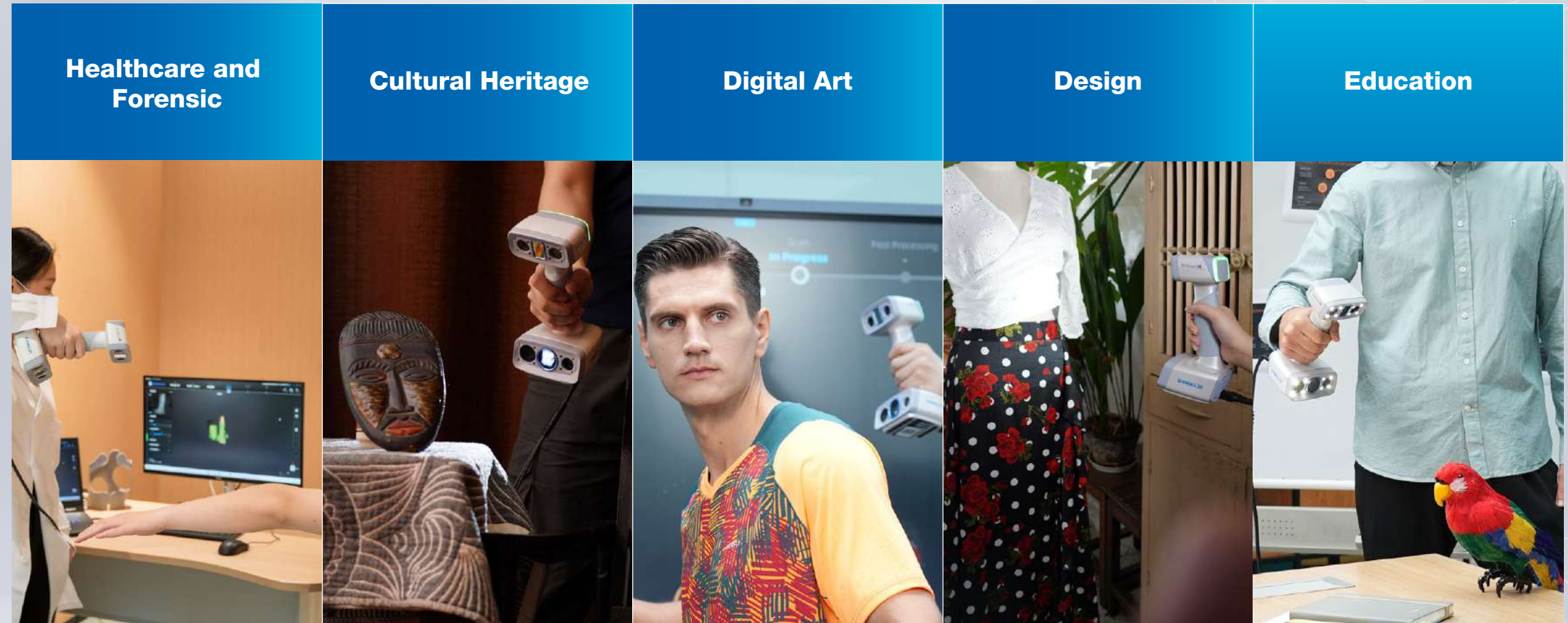
Hybrid LED &  
Infrared Light Source



# Introducing the EinScan H2



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 makes 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.



# Key Features



**3 Infrared VCSEL  
Projectors**



**Data Acquisition  
Camera**



**5MP Texture  
Camera**



**White Light  
Projector**

# Photorealistic Texture

## 5MP Texture Camera

Capture rich, bright color and clean texture 3D model on a photorealistic level.



· 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 source improves scanning efficiency. LED light provides fast scanning with accurate and high quality data for professionals.

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



Infrared VCSEL enables non-rigid algorithm for human scan and various scanning environment.

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

- Accuracy 0.15mm
- 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.

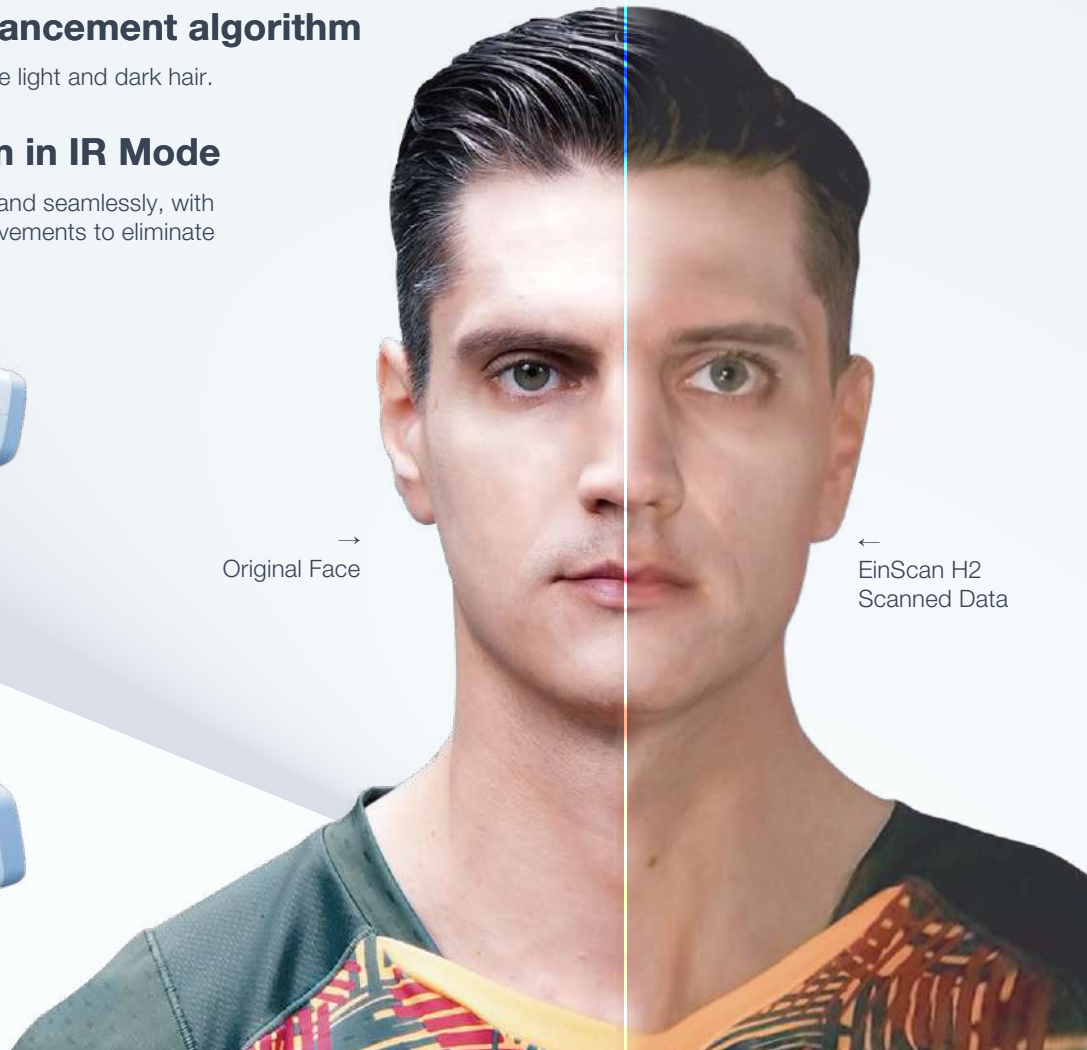
## Non-rigid algorithm in IR Mode

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



→  
Original Face

←  
EinScan H2  
Scanned Data

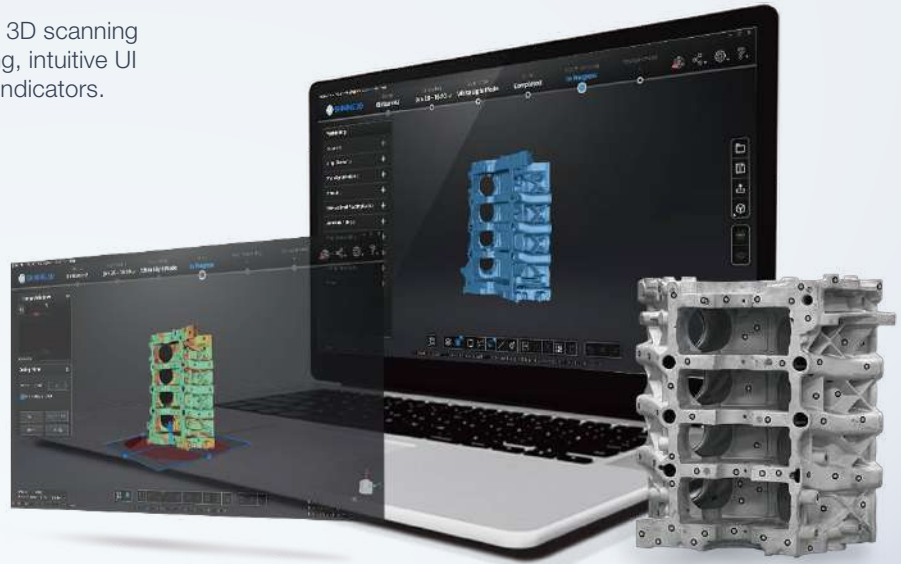




# User-Friendly Design

## Remarkable scanning software

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

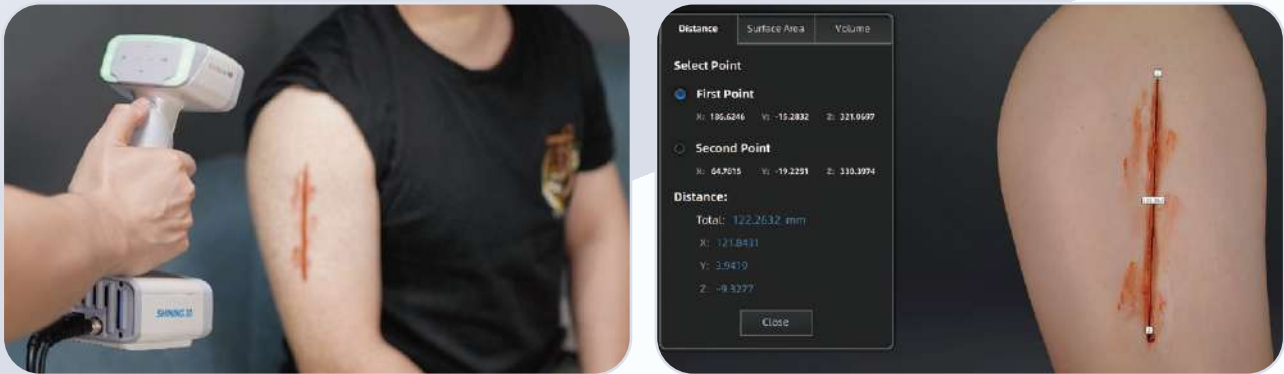


## Ergonomic design

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

# Develop Your Own Scanning App with EinScan H2 SDK

The EinScan H2 scanning SDK is available and open for customization! Integrate our powerful scanning and data processing into your self-developed software or app.



→  
Forensic Science



→  
Prosthetics and Orthotics

# 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 0.15mm   |
| Volumetric Accuracy              | 0.05mm+0.1mm/m   | 0.15mm+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                                  |  |

EinScan H2-EN 20230707-V0.7