



# EinScan **H2**

High Texture Resolution  
Handheld 3D Scanner

**Hybrid Light Source**  
**LED & Infrared VCSEL Light Source**

INTRO

# EinScan H2



Hybrid LED & Infrared VCSEL Light Source Handheld 3D Scanner



The EinScan H2 improves on its predecessor with a **5MP** resolution texture camera, enhanced accuracy, and **3 VCSEL projectors** for more photorealistic textures and better data quality.



HIGHLIGHTS

# High Fidelity Color Reproduction

## 5MP texture camera

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

Scanned data



Physical object



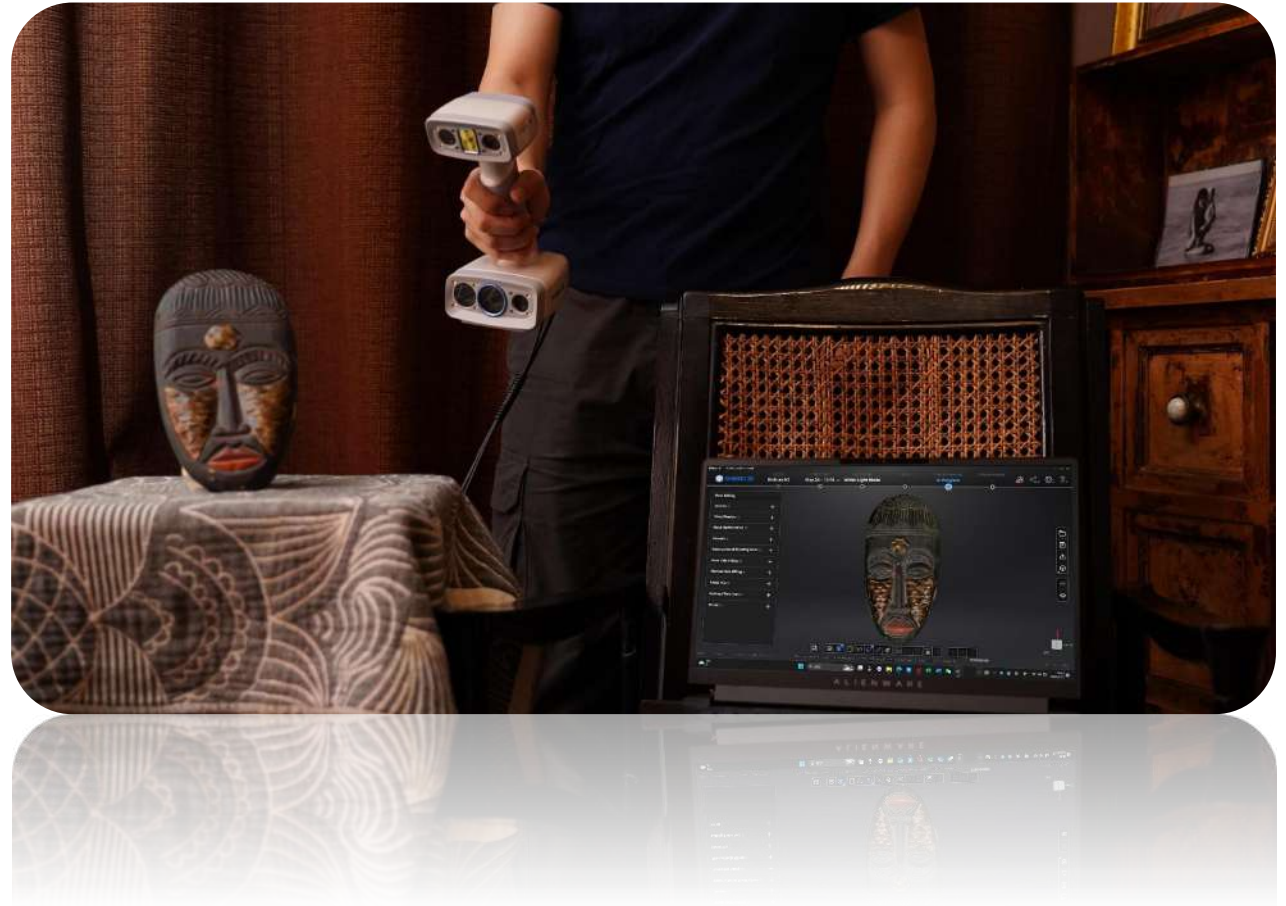


HIGHLIGHTS

# Superior Environmental Adaptability

## 3 Infrared VCSEL Projectors

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



## HIGHLIGHTS

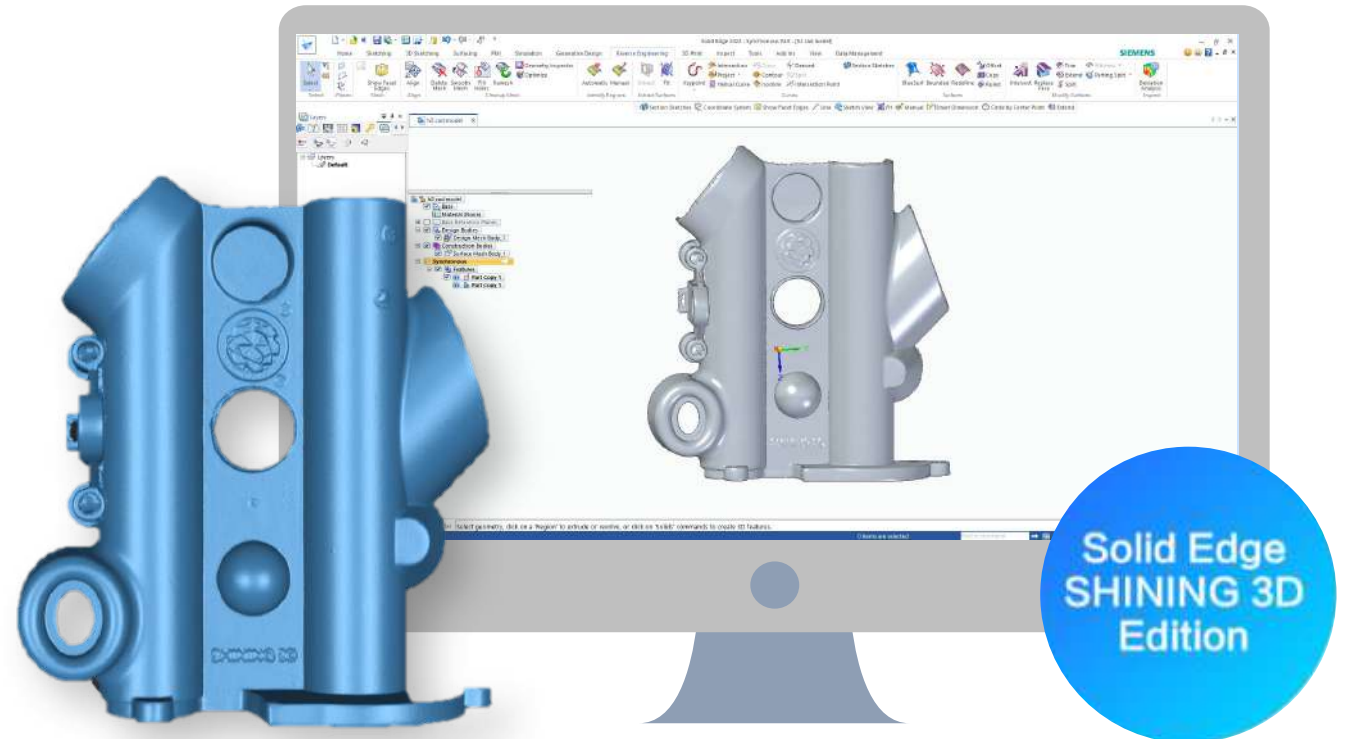
# High Accuracy & Versatile

## Infrared VCSEL and White Light Hybrid Light Source

### 1. White LED Light , Visible

White 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





HIGHLIGHTS

# High Accuracy & Versatile

## Infrared VCSEL and White Light Hybrid Light Source

### 2. Infrared VCSEL Light , Invisible

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

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

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



← Data scanned by IR Mode

Original physical object

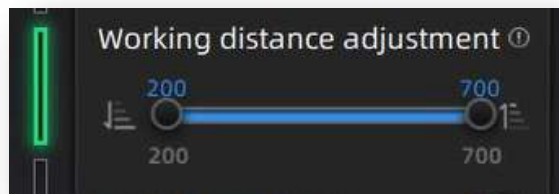


HIGHLIGHTS

# Adjustable Working Distance & Large FOV

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

**FOV (Field of View)** up to **780mm x 900mm**. Offers flexibility in scanning volume to capture large-sized objects quickly.



Data scanned by IR mode

HIGHLIGHTS

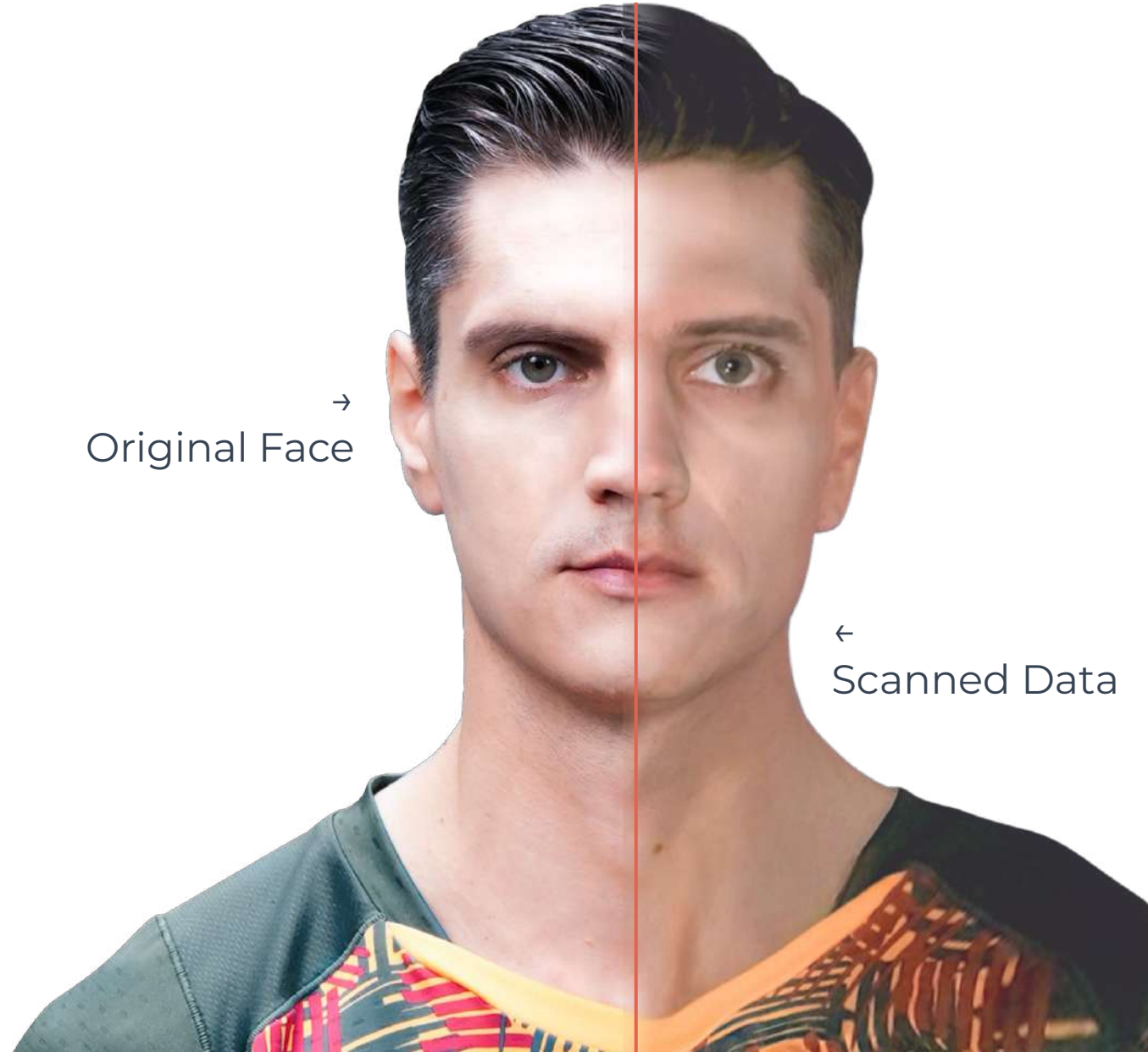
# Advanced Algorithm for Body Scan

- ✓ IR Mode Non-rigid Algorithm
- ✓ Hair Enhancement
- ✓ Flashless Scan

Captures 3D body data quickly and seamlessly, with auto-compensation of slight movements to eliminate misalignment risks. Hair mode designed to successfully capture light and dark hair.

→  
Original Face

←  
Scanned Data





EinScan H2

# Application Industry



Healthcare & Forensic



Cultural heritage & Academic research



VR & AR



CGI and VFX



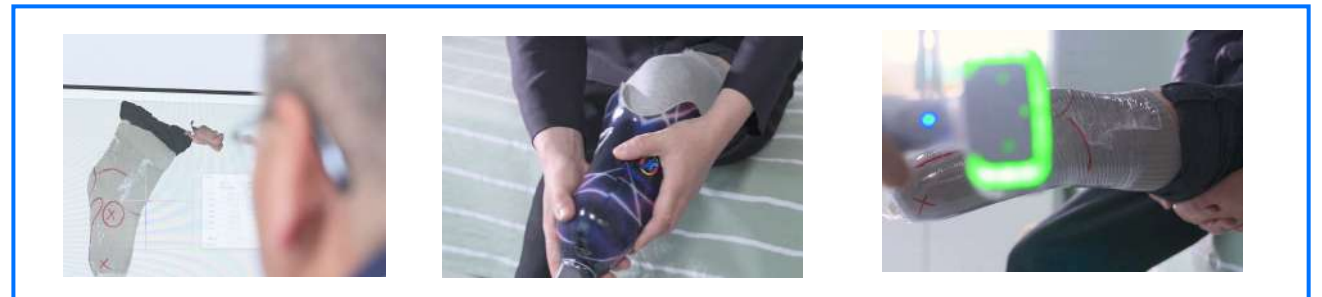
Art & Design

# Prosthetic Socket

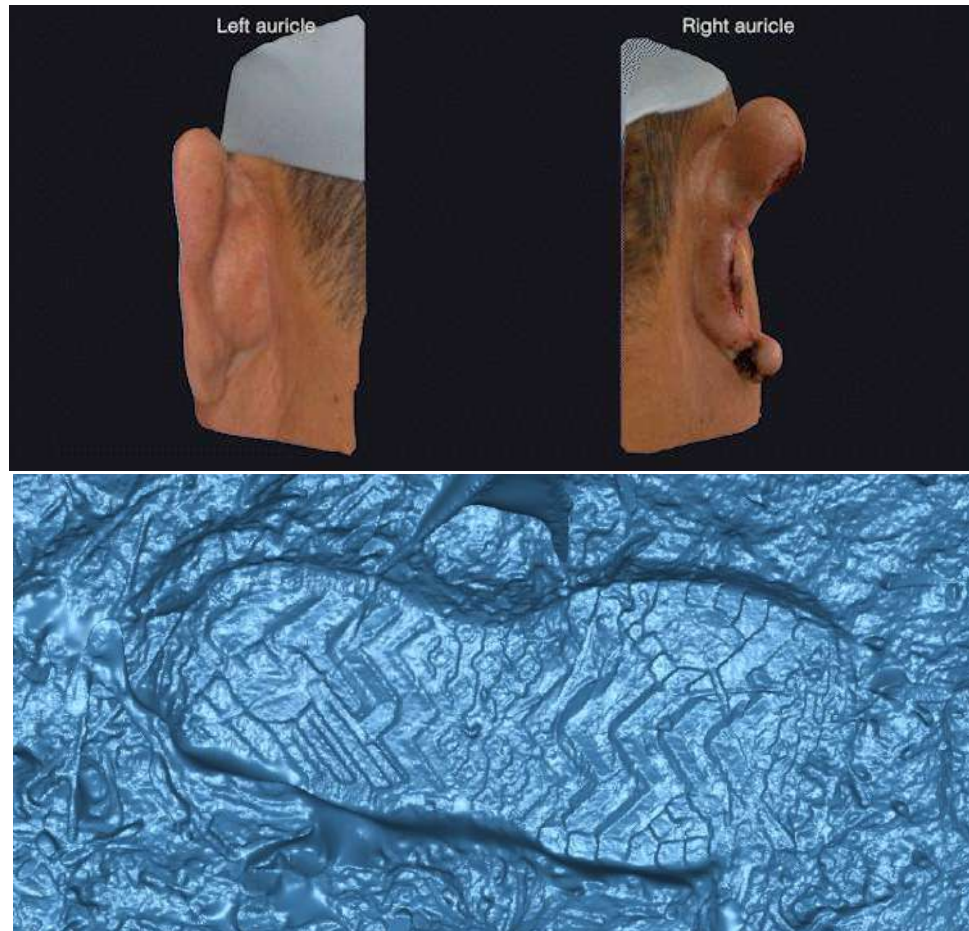


## Background:

- EinScan & Luke Rehabilitation
- **Traditional production method:** If the prosthetic socket does not fit the residual limb properly, it can cause pain to the patient, secondary trauma to the skin or damage to the patient's bones.
- **3D digitizing method:** High-precision 3D model of the patient's residual limb can be imported into the modeling software to make the socket.



# Forensic Science



## Background:

- Crime scene documentation and preservation
- Management of physical evidence
- Injury analysis
- ...

Comparing with the traditional free proof, this digital method preserved the original injury information and gives a more exact and authoritative result.



# CGI & VFX



## Background:

- High resolution textures are essential for creating realistic and immersive environment,
- VFX artists can use the 3D model easily without a tedious post processing.



# 3D Digital Content



## Background:

- Education: create interactive educational materials
- Advertising and marketing: high-resolution 3D digital models for use in online stores
- Heritage conservation: Visualization of artifacts or museum collections
- ...





# Thank You

EinScan H2 Product Introduction

