



# EinScan H

Hybrid LED & Infrared Light Source  
Handheld Color 3D Scanner

With strengths of technical accumulation on 3D vision technology in more than a decade, SHINING 3D is now introducing its new developed handheld 3D scanner, EinScan H. Based on hybrid structure light technology of LED and invisible infrared light, EinScan H is making human face scanning more comfortable without strong light. With a built-in color camera and large field of view, EinScan H provides high quality 3D data with full color ready-to use in minutes.



## APPLICATIONS

**ART AND HERITAGE**  
Digital Sculpture Design

**FORENSICS**  
Evidence Analysis and Archiving

**VIRTUAL DISPLAY**  
VR/AR Display

**CUSTOMIZATION**  
Consumer goods customization

**HEALTHCARE**  
Orthotics & Prosthetics, Plastic Surgery, Digital Diagnosis & Treatment

**DIGITAL ENTERTAINMENT**  
Animation and Games

# VERSATILE AND USER FRIENDLY



## INFRARED & STRUCTURED LIGHT HYBRID LIGHT SOURCE



Hybrid structure light source technology integrating LED structured light and invisible infrared light into one device and adding advanced smart presetting in different scan modes allows 3D scanning in a broad range of applications and promotes the popularization of portable 3D scanning technology.

## FAST SCANNING



Scan speed up to 1,200,000 points/s and large scan FOV of 420\*440mm ensures fast 3D scanning of large size objects. The optimized alignment algorithm enables efficient alignment despite small movements of the scanned object or person.

## PORTABLE & EASY OPERATION



The software is intuitive and user-friendly. Easy operation for professional users and beginners alike. Easy to own, easy to use.

# FULL BODY SCAN SOLUTION

## THE ERA OF SCANNING WITH HAIR ACQUISITION



The invisible infrared light source provides a reliable solution to the problem of acquiring dark-coloured objects and enables an easy acquisition of human hair.

## INVISIBLE LIGHT 3D SCANNING EXPERIENCE



The new face scanning mode adopts invisible infrared light enabling a safe and comfortable scanning process.



Scan Data



# AUTHENTIC COLOR CAPTURING



## FULL-COLOR REPRODUCTION

The built-in color camera supports full color texture capturing and tracking by texture.



## FINE DETAILS

Impressive high resolution reaches 0.25mm. EinScan H captures the full geometry of objects such as artwork or furniture with fine details. The high accuracy of scanned data up to 0.05mm and volumetric accuracy 0.1mm/m improves the precision of 3D modeling in a dense points cloud or polygon meshes.



# TECHNICAL SPECIFICATIONS

## EinScan H

| Scan Mode               | Standard Scan   | Body Scan               | Face Scan                 |
|-------------------------|---|-------------------------|---------------------------|
| Light Source            | White Light, visible  |                         | Infrared light, invisible |
| Safety                  | LED light (eye-safe)  |                         | CLASS I (eye-safe)        |
| Scan Accuracy           | Up to 0.05mm  |                         | Up to 0.6mm               |
| Volumetric Accuracy*    | 0.05+0.1mm/m  |                         | /                         |
| Scan & Align Speed      | 1,200,000points/s, 20FPS  |                         | 720,000points/s, 20FPS    |
| Align Modes             | Markers-, Feature-, Hybrid- and Texture Alignment   |                         | Feature Alignment         |
| Camera Frame Rate       |   | 55FPS                   |                           |
| Working Distance        |   | 470mm                   |                           |
| Depth of Field          | 200-700mm   |                         | 200-1500mm                |
| Maximum Scan Range      | 420mm*440mm   |                         | 780mm*900mm               |
| Point distance          | 0.25mm-3mm  |                         | 0.5mm-3mm                 |
| Built-in Color Camera   |   | Yes                     |                           |
| Color Scanning          |   | Support                 |                           |
| Connection Standard     |   | USB3.0                  |                           |
| Output Format           |   | OBJ, STL, PLY, P3, 3MF  |                           |
| Dimension               |   | 108mm*110mm*237mm       |                           |
| Weight                  |   | 703g                    |                           |
| Certification           |   | CE, FCC, ROHS, WEEE, KC |                           |
| Recommend Configuration | OS:Win10, 64 bit; Graphics card: NVIDIA GTX1080 and higher; Video memory: ≥4GB; Processor: I7-8700; Memory: ≥32GB |                         |                           |

\* Volumetric accuracy refers to the relationship between 3D data accuracy and object size; the accuracy is reduced by 0.1mm per 100cm (standard scan & body scan). The conclusion is obtained by measuring the center of sphere under marker alignment.