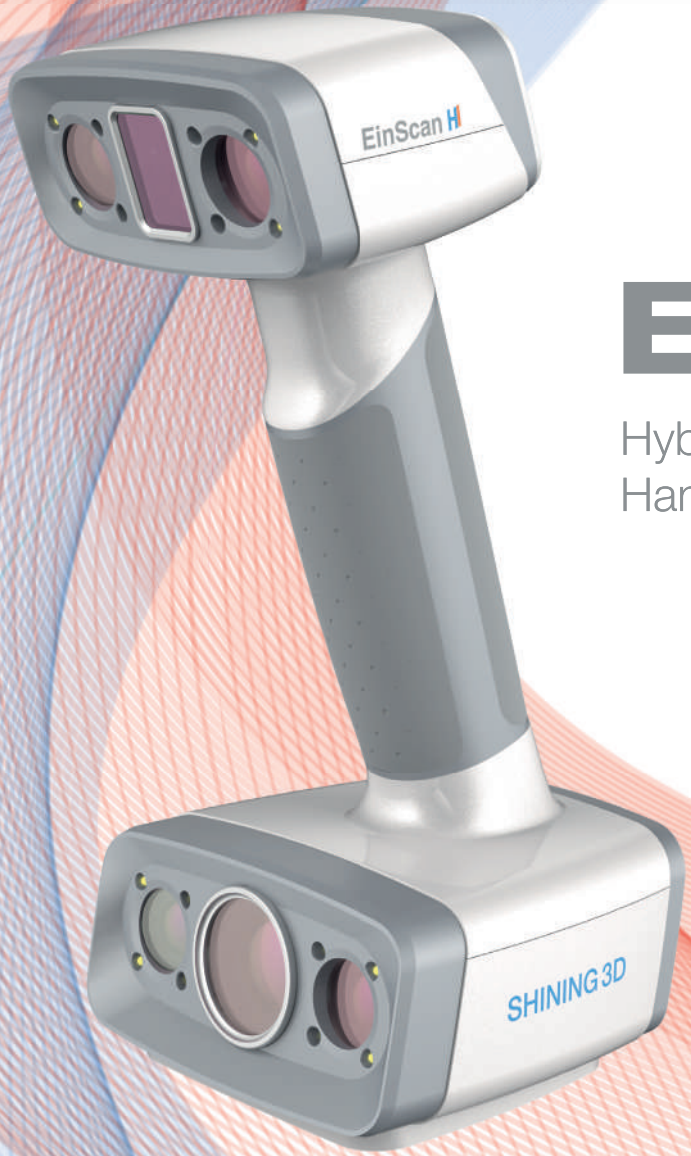
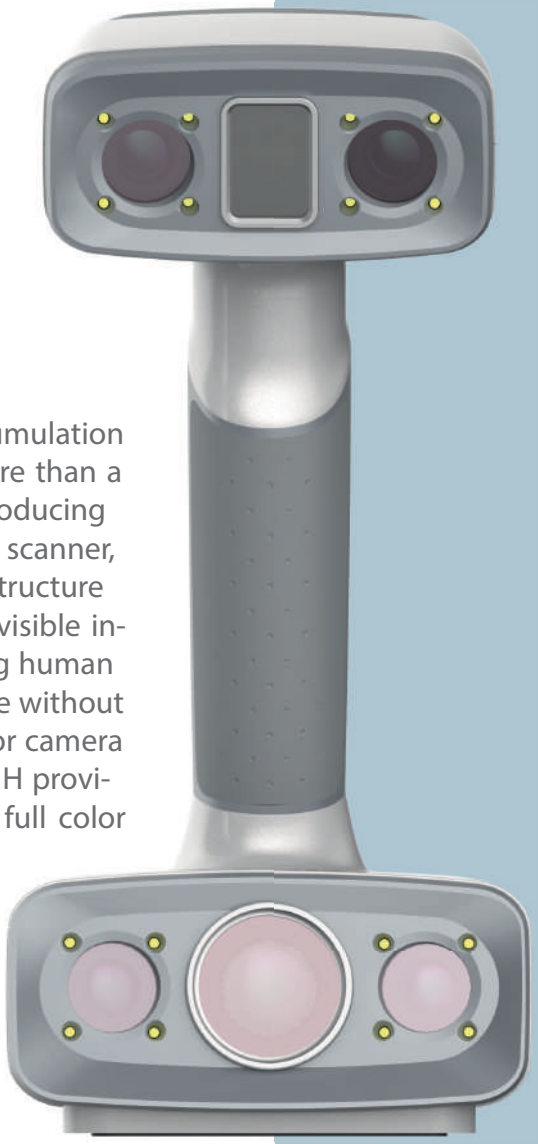
SHINING 3D®



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

120M p/s

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 optimzied 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.