

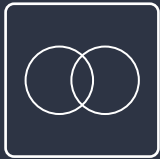


SHINING 3D®

# EinScan<sup>®</sup> HX

Hybrid Blue Laser & LED Light Source  
Handheld 3D Scanner





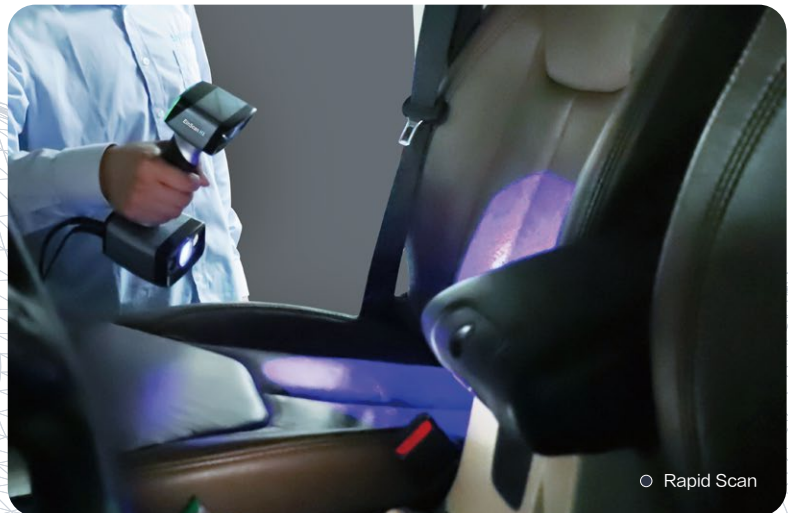
## Hybrid Blue Laser & LED Light

Innovatively integrated with dual blue LED light and blue laser, improves scanning materials adaptability with less limitation for a wider range of applications.

LED light scanning allows rapid 3D scanning.

Laser scanning, which is less sensitive to ambient light, gives better performance to reflective and dark color surface.

Based on years of 3D measurement experience and market demand, SHINING 3D innovatively integrates blue LED light and blue laser into EinScan HX handheld 3D scanner. The hybrid laser and LED light sources make EinScan HX compatible with a wider range of object sizes, meeting multiple needs of users. High efficiency and reliable result give EinScan HX more application possibilities.





## High Efficiency

Processing speed of EinScan HX under Rapid Scan Mode is up to 1,200,000 points/s, and multiple blue laser lines under Laser Scan Mode makes scanning of most objects in minutes for reverse engineering, CAD/CAM, 3D printing and etc.



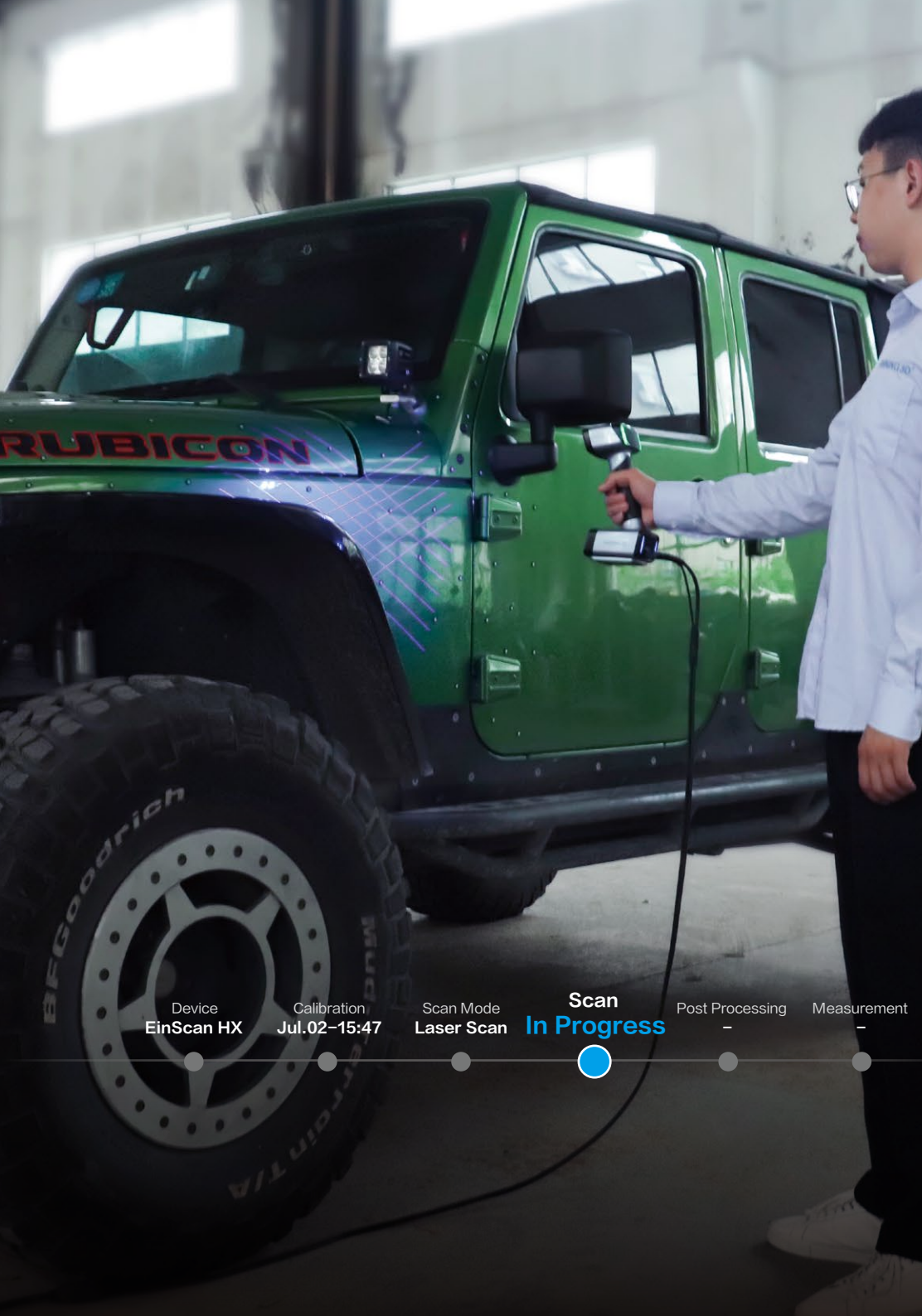
0.04mm

## Reliable Results

The high resolution and accuracy meet the needs of most industrial application for reverse engineering and measuring.

Minimum point distance of **0.05mm**;  
accuracy up to **0.04mm** under laser mode





## Portable & Easy Operation

EinScan HX is plug and play with user friendly software, which is easy to operate, no matter you are newbie or with professional experience in 3D scanning. The portability and flexibility use of EinScan HX has been considered to its ergonomic design for a more efficient and comfortable scanning experience.

Device  
EinScan HX

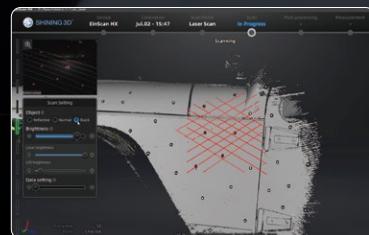
Calibration  
Jul.02-15:47

Scan Mode  
Laser Scan

Scan  
**In Progress**

Post Processing  
—

Measurement  
—





## Full Color

With built-in color camera, it supports full color texture capturing and tracking by texture.



# APPLICATIONS

---



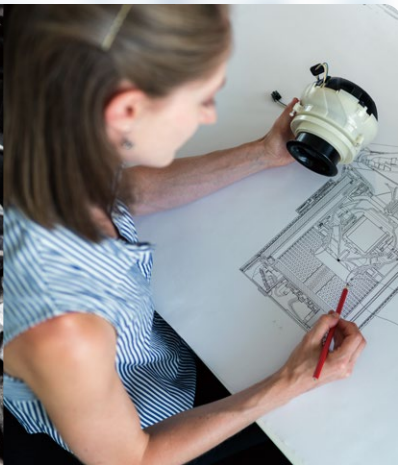
Automotive



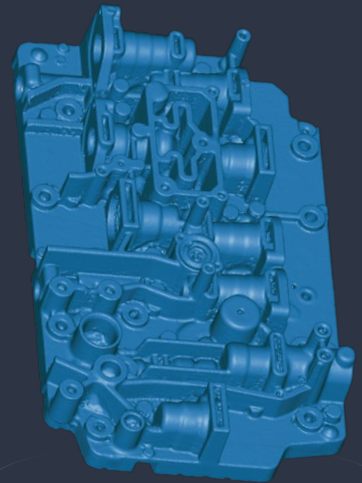
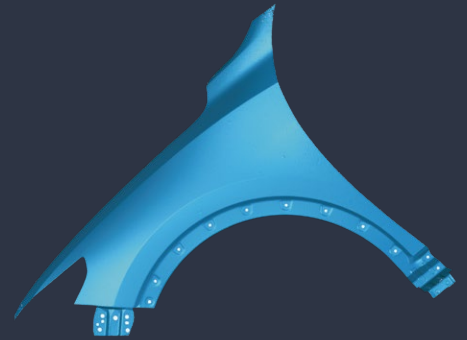
Shipbuilding



Machining



Education and Research



# TECHNICAL SPECIFICATIONS

## EinScan HX

|                           |                                                                                                                   |                        |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------|
| Scan Mode                 | Rapid Scan                                                                                                        | Laser Scan             |
| Scan Accuracy             | Up to 0.05mm                                                                                                      | Up to 0.04mm           |
| Volumetric Accuracy*      | 0.05+0.1mm/m                                                                                                      | 0.04+0.06mm/m          |
| Scan Speed                | 1,200,000 points/s 20FPS                                                                                          | 480,000 points/s 55FPS |
| Camera Frame Rate         | 55FPS                                                                                                             | 55FPS                  |
| Align Mode                | Feature Alignment, Markers Alignment, Texture Alignment, Hybrid Alignment                                         | Markers Alignment      |
| Working Distance          | 470mm                                                                                                             | 470mm                  |
| Depth of Field            | 200mm–700mm                                                                                                       | 350mm–610mm            |
| Max FOV                   | 420mm*440mm                                                                                                       | 380mm*400mm            |
| Point Distance            | 0.25mm – 3mm                                                                                                      | 0.05mm–3mm             |
| Light Source              | Blue LED                                                                                                          | 7 Blue Laser Crosses   |
| Safety                    | Eye-safe                                                                                                          | Class I ( Eye-safe )   |
| Built-in Color Camera     | Yes                                                                                                               |                        |
| Texture Scan              | Yes                                                                                                               | No                     |
| Connection Standard       | USB3.0                                                                                                            |                        |
| Output Formats            | OBJ; STL; ASC; PLY; P3 ; 3MF                                                                                      |                        |
| Dimensions                | 108mmx110mmx237mm                                                                                                 |                        |
| Weight                    | 710g                                                                                                              |                        |
| Certifications            | CE, FCC, ROHS, WEEE, KC                                                                                           |                        |
| Recommended Configuration | OS: Win10, 64 bit; Graphics card: NVIDIA GTX1080 and higher; Video memory: ≥4G; 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 ( rapid scan)/0.06mm(laser scan) per 100cm.The conclusion is obtained by measuring the center of sphere under marker alignment.