



EINSCAN HX

REVERSE ENGINEERING
AND INSPECTION SUITE



SHINING3D®



FULL COLOR

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

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.

PORTABLE & EASY OPERATION

Get started directly and at ease with EinScan HX due to its userfriendly and easy setup and operation. The portability and the flexible handling capacities of EinScan HX come on top of the ergonomic design for a more efficient and comfortable scanning experience.



RELIABLE RESULTS

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

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



HYBRID BLUE LASER & LED LIGHT

Innovatively integrates blue structure light and blue laser, improving scanning materials adaptability with less limitation for a wider range of applications. Structure light scanning allows rapid 3D scanning. Laser scanning, which is less sensitive to ambient light, gives better performance in capturing reflective and dark colored surfaces.

MANUFACTURING ANSWERS FROM LARGE, COMPLEX 3D POINT CLOUDS OR MESHES

INSPECTION SUITE

Easily import any 3D scan point cloud or STL mesh. Automatically extract and analyze scan data to CAD model nominals and quickly produce intelligent GD&T reports. Save reusable, automated inspection plans to support production inspection. Includes Verisurf CAD and ANALYSIS modules.

- Extract measured features with GD&T and fit clouds or meshes
- Analyze deviation to CAD nominal with clear Pass/Fail balloons
- Identify nonconformance and produce custom quality reports
- Automate inspection with accurate repeatable scan data process

REVERSE ENGINEERING SUITE

Quickly import any 3D scan point cloud or STL mesh. Create 3D printable STL models for additive manufacturing, 3D surfaces for industrial design and rapid machining or complete solid models with intelligent GD&T for manufacturing. Includes Verisurf CAD and REVERSE.

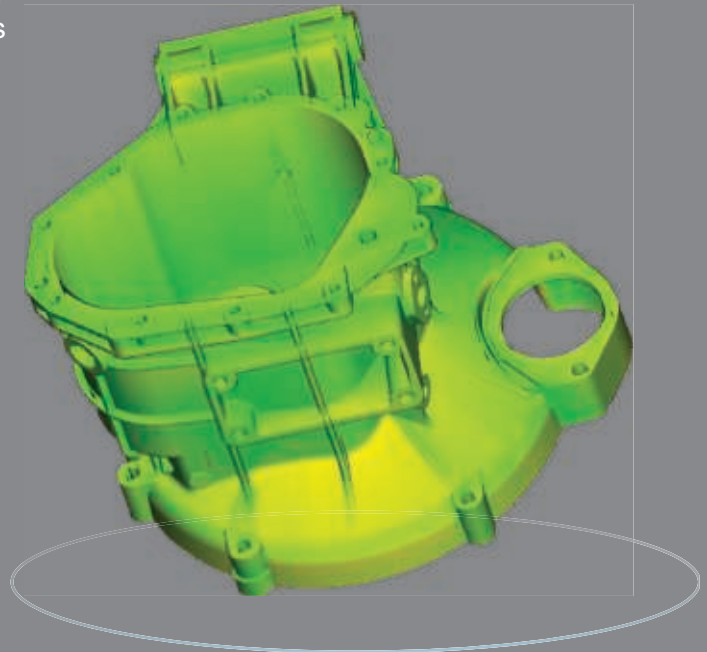
Verisurf's Scan Data Reverse Engineering Suite features an extensive set of tools for managing, combining, filtering, editing, meshing, and surfacing both pointcloud and mesh data.

- Create manufacturable CAD models from physical parts
- Align multiple, scanned pointcloud objects with ease
- Automate surface meshing using pointclouds and meshes
- Create CAD geometry from pointcloud or mesh cross sections

With the fusion of the joint capacities of both the EinScan HX hybrid light laser and LED 3D scanner and the powerfully tailored software bundles by Verisurf you can now explore unprecedented accuracy and efficiency to effectively meet the needs of your project. Select your software bundle depending on the main focus of your daily working routine and unlock innovation with blue laser, LED light and strong digital tools for inspection and reverse engineering. Start manufacturing answers: fast, efficient and smooth – with EinScan HX powered by Verisurf.

REVERSE ENGINEERING AND INSPECTION SUITE

The Scan Data Reverse Engineering and Inspection Suite combines the capabilities of both the inspection and the reverse engineering suite. It offers the best choice for manufacturing professionals who need the flexibility to support both inspection and reverse engineering workflows.



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 Alignmen
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.