

For More Shining Ideas

EinScan **HX**

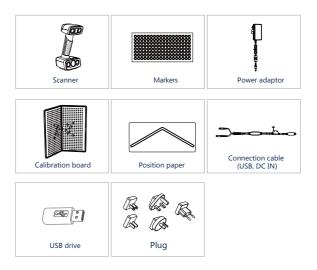
Blue Laser & LED Hybrid Light Source Handheld 3D Scanner



Quick Start Guide Getting Started with EinScan HX

Preparation

Device List

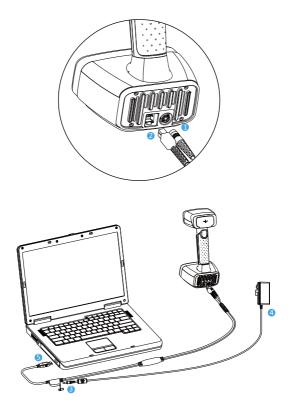


Preparation

Recommended

Graphics Card	NVIDIA GTX1080 and higher	
Video Memory	≥4G	
Processor	17-8700	
Memory	≥32G	
Interface	high-speed USB 3.0	
Required		
Graphics Card	Quadro card P1000 and higher or NVIDIA GTX660 and higher	
Processor	Intel (R) xeon E3-1230, Intel (R) I5-3470, Intel (R) I7-3770	
Memory	8G	
Interface	high-speed USB 3.0	

Hardware Installation



- Insert the pin plug into the scanner's circular connector port
- Plug the other one to scanner's USB port
- S Plug the power adaptor into the connection cable DC in port
- 4 Plug the power cable another end into a power outlet
- Sonnect the other end of the connection cable to a USB 3.0 port on your computer

Software Installation

Software Download

Download the software and user manual from www.einscan.com/support/download/



Attention: If you install another device of different serial number, the software will automatically notify users to activate this device.

Online Activation

Local Activation

Calibration

STEP

step 02

STEP

STEP 04

STEP

Standard Calibration

1.Put the calibration board vertically onto the paper position. 2.Follow the instructions from the software to finish 5 positions. 3.While holding the scanner, make sure it is upright to the center of the board. Bring the scanner closer or farther to the board till all the required distance captured.

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Calibration



White Balance Calibration

Hold the scanner vertically to the back side of calibration board (white). Move the scanner up and down till a photo taken at a right distance.

The first time installing the software , standard calibration is required by default.

Note:

1. Customer calibration is recommended to do twice a week for daily use.

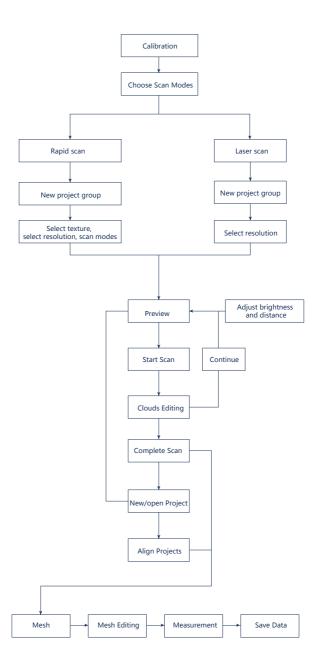
2. Move the scanner at a steady and slow speed.

3. Make sure to protect the calibration board and keep it clean, no scratches or stains on the black surface with white circles.

4. The Calibration board is matched to the Device with same Serial Number. Doing the calibration with an incorrect calibration board will fail to generate good scan data or optimum accuracy.

5. Clean with clear water only, do not use alcohol or chemical liquid to clean the calibration board.

Software Scan Work Flow



Scanning Tips

Scan Mode Selection

Use Rapid Scan mode when:

A fast scanning experience is needed; Objects with good geometry for feature alignment;

Use Laser Scan mode when:

High accruracy and fine details are needed; marker points are accepted for markers alignment; scanning objects are with shiny and black surface.

Summary

	Laser Scan	Rapid Scan
What to scan?	300mm - 4m objects	
Light source	Laser	LED
Accuracy	Up to 0.04mm	Up to 0.05mm
Resolution	0.05mm-3mm	0.25~3mm
Alignment	Markers	Markers/features/ hybrid/texture
Scanning speed	480,000 points/s 55FPS	1,200,000 points/s 20FPS
Texture Scan	No	Yes



Difficult to Scan

- · Transparent objects like glasses
- · Shining or highly reflective objects like mirrors





Solution

Spray with white powder

Not Recommended

- Moving objects or vibrating objects
- Lattice structure with many small deep holes
- Soft material objects



Technical Support

Register at <u>support.shining3d.com</u> for support Or contact through:

Email: einscan_support@shining3d.com Skype: einscan_support

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