SHINING 3D®

For More Shining Ideas

EinScan-SP

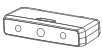
Platinum Desktop 3D Scanner

Quick Start Guide

Getting Started with EinScan-SP

Preparation

Unpacking Checklist

①  Scanner Head	②  Turntable	③  Scanner Stand
④  Scanner Bracket	⑤  Calibration Board	⑥  Calibration Board Holder
⑦  Power Cord	⑧  Power Adapter	⑨  USB Cable A
⑩  USB Cable B	⑪  Tripod	⑫  Reference Points
⑬  Quick Guide		

*Please only use water to clean the calibration board, avoid touching any corrosive liquid.

PC Requirement

Please prepare the PC with the following system requirement.

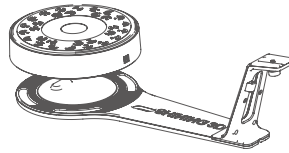
Operating System:	Win 10 / 64bit
Port:	at least One USB2.0 / 3.0 port
RAM:	> 16 G
Graphic Card:	NVDIA Series, GTX660 or better
Graphic Memory:	> 2 G
CPU:	i5 or higher

Scanner Assembly

Turntable Assembly

STEP 01

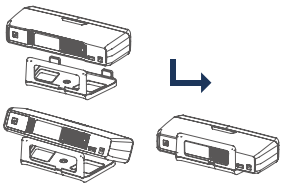
Place the turntable onto scanner stand



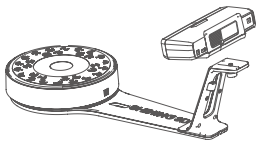
Scanner Head Assembly

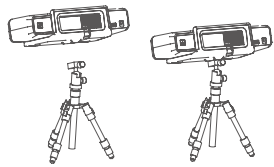
STEP 02

Place the scanner head onto the bracket.



Screw the scanner into the socket on the stand.





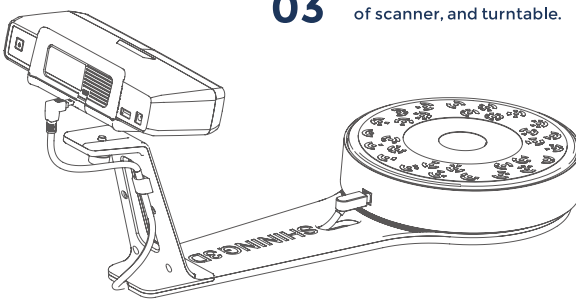
Setting Scanner on Tripod for Fixed Scan mode.

Screw the scanner head onto tripod.

Connect the Scanner to Turntable

STEP 03

Plug USB cable into back of scanner, and turntable.

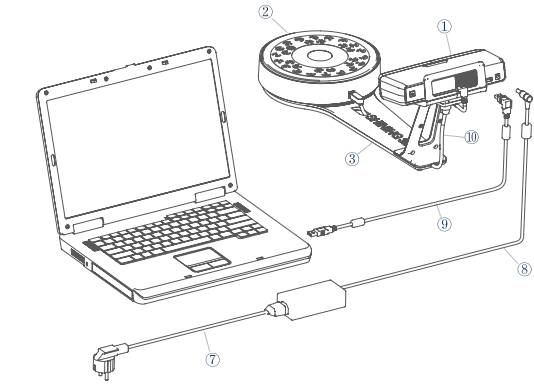


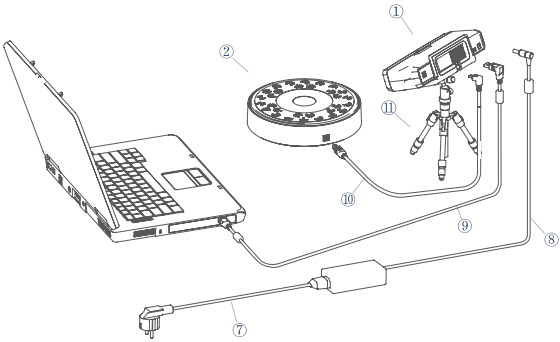
Scanner Assembly

STEP 04

Connect the Scanner to a Computer

Plug USB cable into back of scanner and computer USB port.





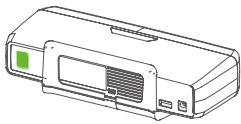
STEP 05

Connect the Power Supply

Plug power cord into outlet and the back of scanner.

STEP 06

Turn on/off the Scanner



Hold on the touch switch for about one second to turn the scanner on.

Double-click on the touch switch and stay for one second each time to turn the scanner off.

Software Installation

Software Download

STEP 01

Download software and user manual from http://www.einscan.com/software-download

Download & Service

Run the Installer

STEP 02

Double click to run the installation wizard and follow the installation instructions.

License Acquisition

STEP 03

During installation, you need to obtain license file online to activate your scanner. Make sure the scanner has been connected well and your computer is networking so as to detect your computer and validate your license .

Online Activation

If you fail to get license online, please contact your supplier or mail your scanner serial number (Sticker on the back of the scanner head) to einscan_support@shining3d.com to get the license file. Save the license file to your desktop. Click "Local Activation" and browse the license file and "Import" .

Online Activation

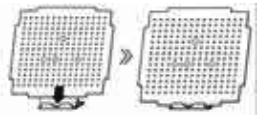
Local Activation

Calibration

STEP
01

Calibration Board Assembly

Insert calibration board onto the board holder.



STEP
02

Calibration Board Placement

Place the calibration board on the center of the turntable facing the scanner.

STEP
03

Run the Calibration

Open software, choose your scanner model of EinScan-SP and go to NEXT. Getting started with calibration button, following the on-screen instructions to turn the calibration board in 3 directions.

Calibration Tips

You should calibrate the scanner in the initial set-up, or IF YOU MOVE THE SCANNER OR TURNTABLE.
When you find the scanned quality is not as good as initial set-up, you can recalibrate your scanner.
Calibration needed when alignment mistake or failure frequently appear during the scanning.

How to Get a Successful Scan

What Can Be Scanned?

Great to Scan Under Auto Scan Mode

- Objects larger than 30*30*30 mm (1.2*1.2*1.2 in)
- Objects smaller than 250*250*250 mm (38*38*38 in)
- Object weighing less than 5 kg (11 lbs)

Difficult to Scan

- Transparent objects like glass
- Shining or reflective objects like varnished metal parts
- Dark color object like black keyboard
- Fuzzy objects like hair
- Solution: Painting white powder on objects will improve the scan quality.

Do NOT Suggest to Scan

- Moving objects
- Hollow pattern object like Eiffel Tower souvenirs
- Objects smaller than 30*30*30 mm (1.2*1.2*1.2 in)

Note: If the size and weight of the object are out as mentioned above, please scan on tripod without turntable by Fixed Scan Mode.

Our Scan Process

Build Project

STEP 01

Click "New Project" button to start a new scan.

Texture Scan Option

STEP 02

Choose texture scan if color texture is needed for scanning. Or, choose non-texture scan (Texture scan is taking little longer time, and white balance test should be done before texture scanning).

Place Object

STEP 03

Make sure the object is stable during the scanning.

Adjust Brightness

STEP 04

Bright

Dark or difficult to scan

Bright & Dark

Medium

Choose the brightness setting according to your object surface condition. Too much red appears on the object shown in the window means over bright. Note: Please check the exposure instruction in user manual.

Scan

STEP 05

Click Scan button to start scanning.

Our Scan Process

Edit Scan

SHIFT+Left mouse: Select redundant data, the selected section will show as red. The tool bar on the top will allow you to do further edit.

STEP 06

Edit buttons:

1 Deselect

2 Revert

3 Delete

4 Undo

5 Show/Hide Stripes

Click to save data and exit the single-piece edition.

Complete the Scan in More Directions

STEP 07

Sometimes, if one rotate can't give you a full scan, you can place the object in other directions to capture the missing faces. After edit, save the current scanned data, the current data will be aligned to the last scanned data automatically.

Manual Alignment

If automatic alignment fail during scanning, you can use manual alignment. (Misalignment doesn't frequently happen. Please refer the detail of manual alignment in user manual)

STEP 08

Mesh

When the scan is completed, go mesh directly. Watertight or Unwatertight model can be selected due to your request.

STEP 09

Watertight is closed model which can be printed directly. Unwatertight model is a non-closed model keeping the missing scanned area as it is, which is usually chosen for further design purpose in other program.

Save

Asc, stl, obj and ply are available.

STEP 10

Press the touch switch for I second twice to turn the scanner off.

SHINING 3D®

Technical Support

Register at support.shining3d.com for support or contact through:

Email: einscan_support@shining3d.com
Skype: einscan_support

For more videos of the scanners, please follow our YouTube channel " SHINING 3D" .

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