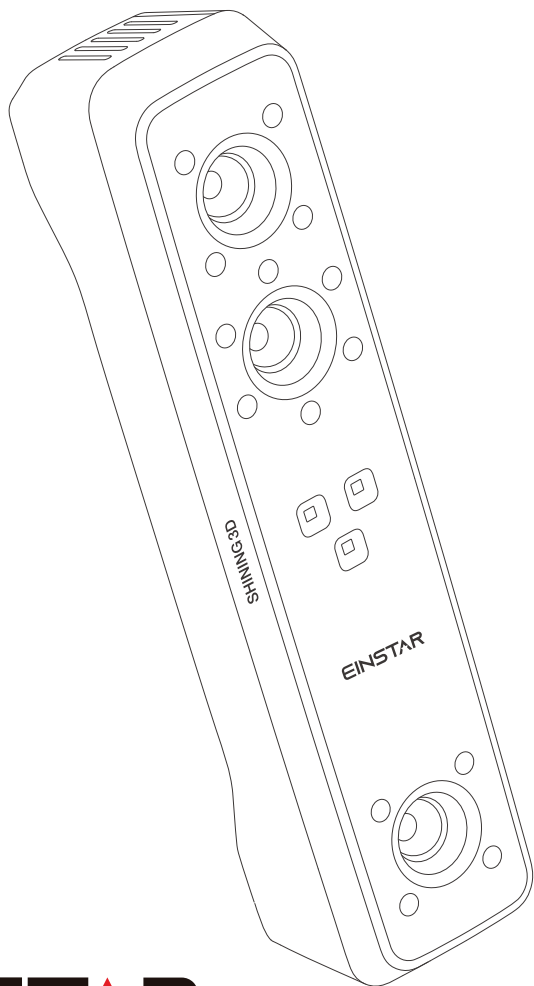




SHINING 3D®

For More Shining Ideas



EINSTAR

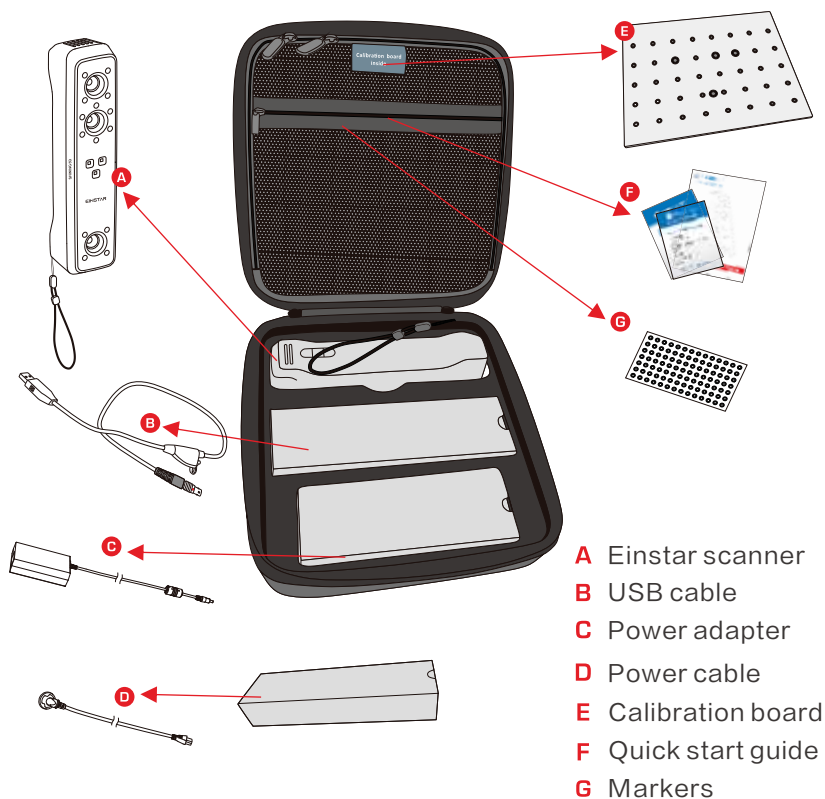
Quick Start Guide

Welcome!

Thank you for purchasing the Einstar 3D scanner. We hope you enjoy scanning with your new scanner.

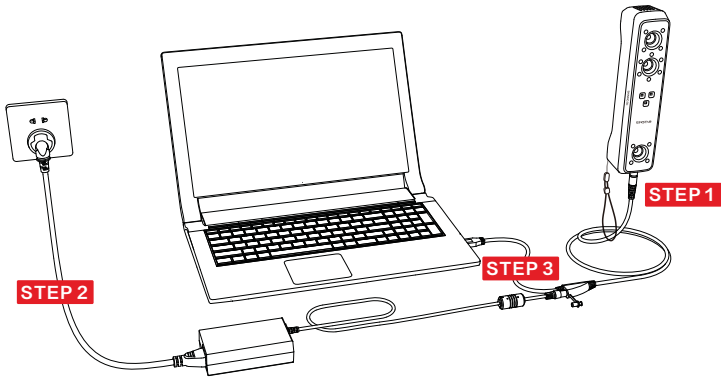
This quick start guide will help you get started. For more detailed information, please visit our support center support.einstar.com.

WHAT'S IN THE BOX



Recommended System Requirements

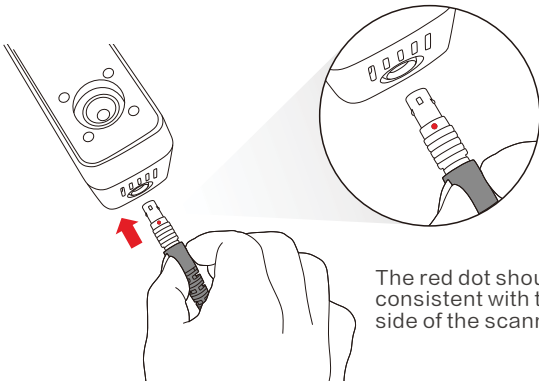
CPU	Intel Core i7 –11800H and above
Graphics card	NVIDIA GTX1060 and above
Graphics memory	6GB and above
RAM	32GB and above
USB	2.0 and above
Operating system	Windows 10/Windows 11 (both 64-bit only)



Connect Your Scanner

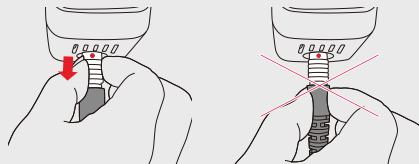
STEP 1

Align the plug of the cable into the bottom jack of the Einstar.



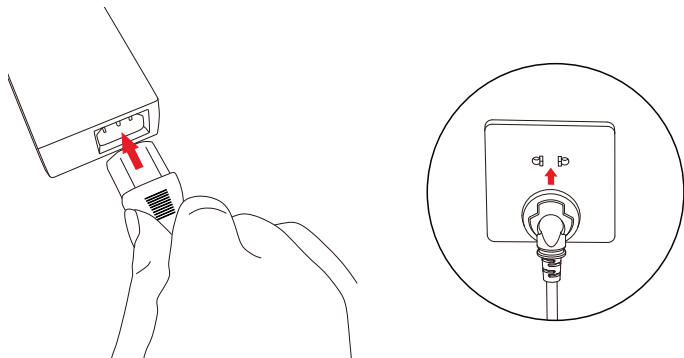
The red dot should be consistent with the front side of the scanner.

Note:
When unplugging, make sure to pinch the **METAL END** of the cable instead of the rubber part.



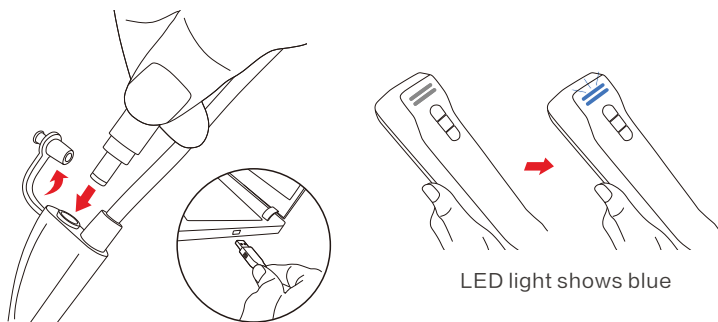
STEP 2

Connect adapter – Power on



STEP 3

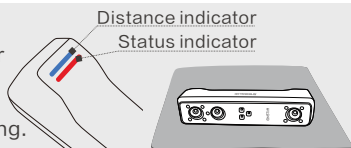
Open protective cover – Connect cables
– Connect PC port



Note:

If the lower LED light is red, check whether the connections are correct.

Place the scanner properly before scanning.
(Please refer to **Safe Handling P13**)



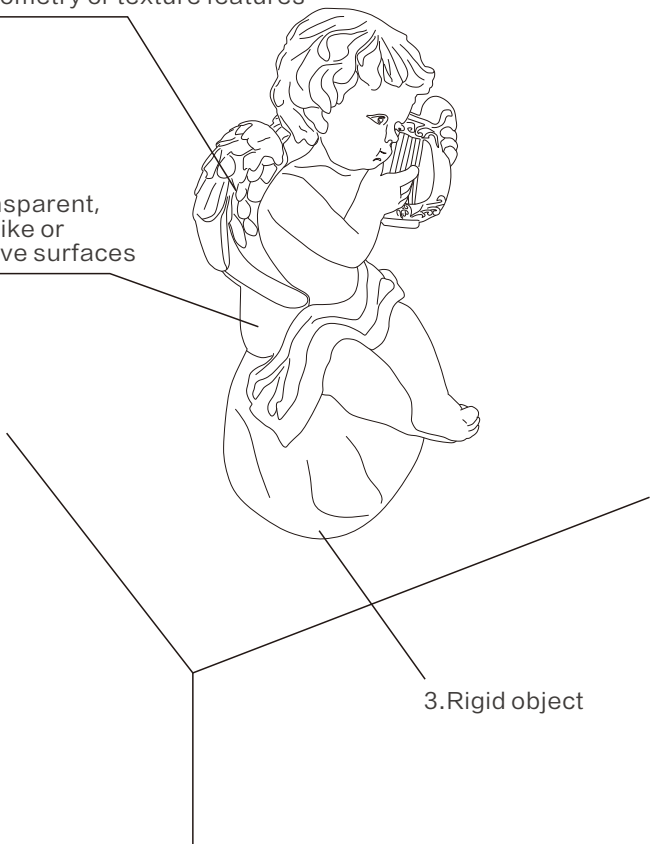
Before scanning

Check if the objects meet the requirements below:

1. Rich geometry or texture features

2. No transparent, mirror like or reflective surfaces

3. Rigid object

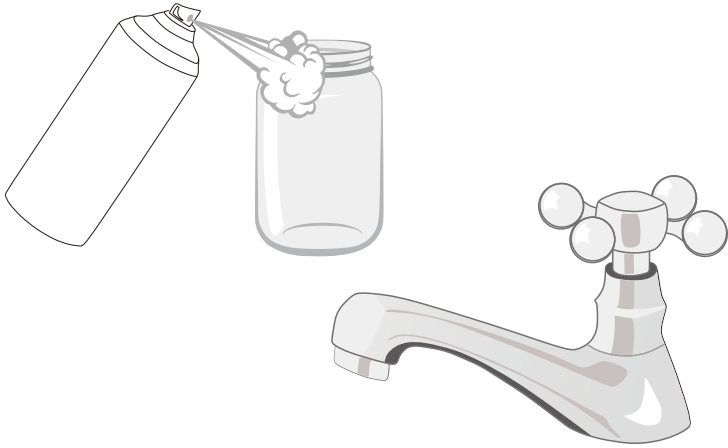


If the objects don't meet ALL requirements, some preparations need to be done before scanning. Please refer to the **P5 PREPARATIONS** page.

How to deal with it?

Surface type: Transparent/Mirror like/Reflective surfaces

Dust with anti-glare spray

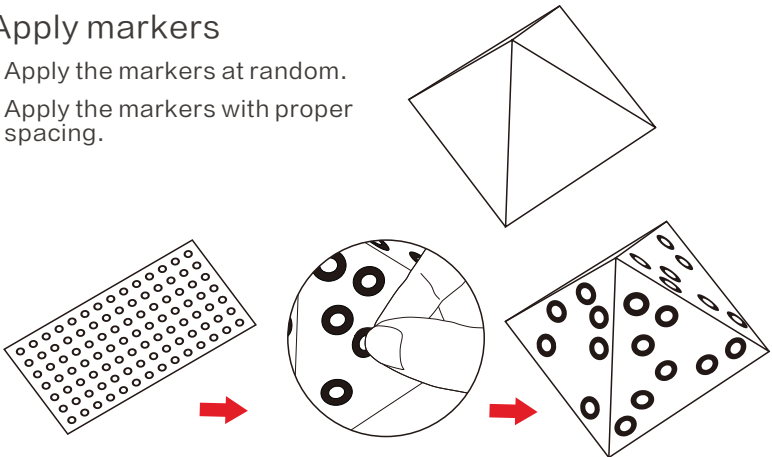


How to deal with it?

Surface type: Thin/Flat/Repetitive features

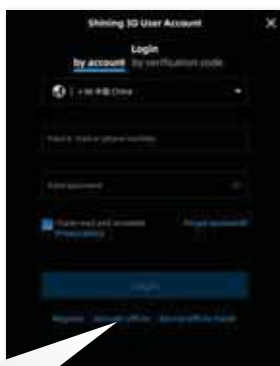
Apply markers

- Apply the markers at random.
- Apply the markers with proper spacing.



Activate the device

1. Go to passport.shining3d.com to register a free user account and binding your Einstar to obtain the latest software, or go to support.einstar.com.
2. Click and follow the installation wizard of EXStar.
3. Follow the on-screen instructions to create a Shining 3D user account.
4. Login with your new account, and the device will be activated automatically.

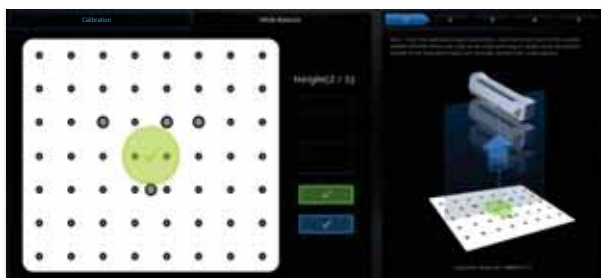


Note:

If the computer is not connected to the internet, you can click and activate the scanner offline.

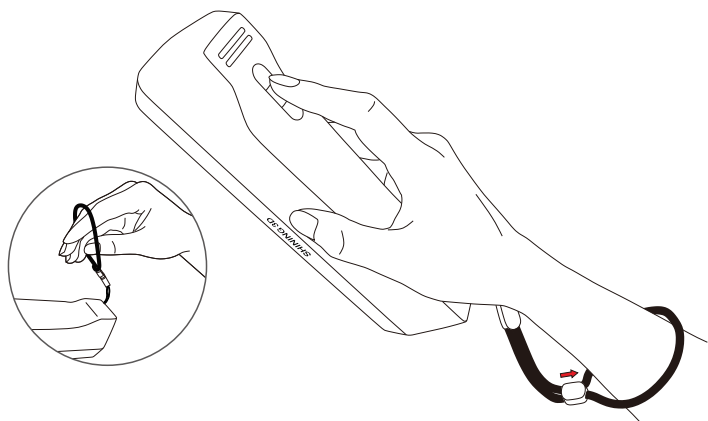
The software enters the calibration interface after activation.

(Please refer to **P7 How to hold the scanner and Calibration**)



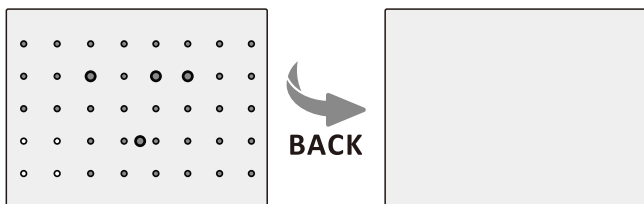
How to hold the scanner

Put on and tighten the wrist strap. Hold the scanner securely as shown in the picture.

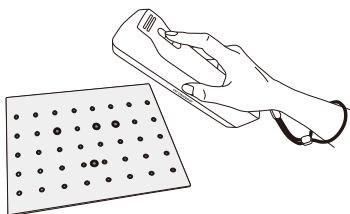


How to calibrate

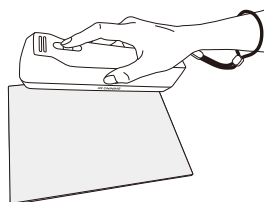
Follow the steps of the calibration wizard in the software.



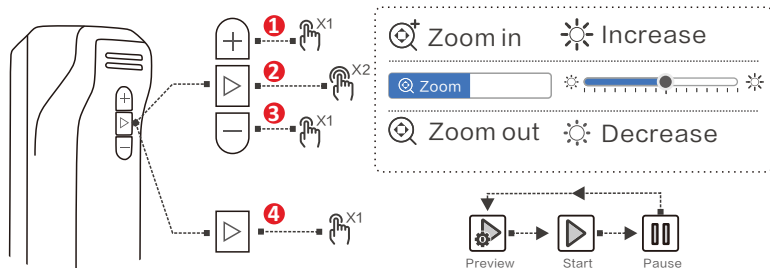
1. Calibration



2. White blanc



Scanner button controls



- ① Click to zoom in (increase brightness) .
- ② Double click to switch between Zoom and Brightness adjustment.
- ③ Click to zoom out (decrease brightness).
- ④ Click to switch scanning status.

Object mode scanning

1. Create a New project group (or Open project group).

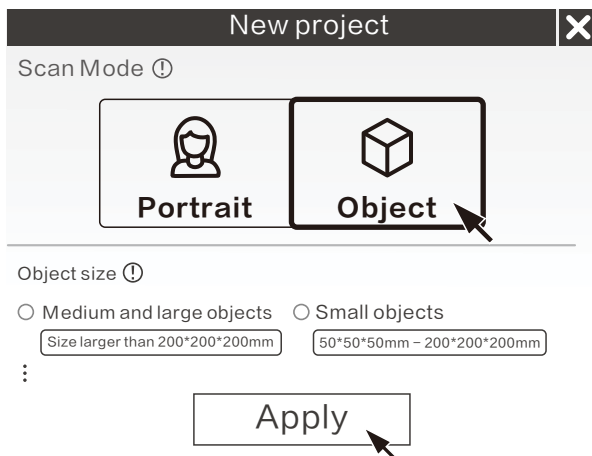


New project group



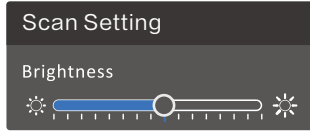
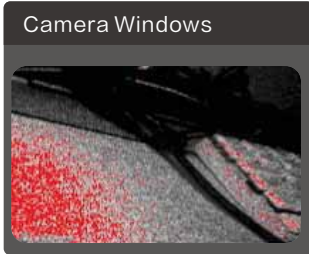
Open project group

2. Select Scan mode "object" and the suitable Object size.



Click to start scanning

3.Adjust the brightness until the camera window pattern is clear and the object is slightly reddish.



You can adjust the brightness by clicking and moving the slider left and right to set a value.

You can also adjust the brightness with the scanner button.
(Please refer to **P8 Scanner button controls**)



Data quality indicator can help you assess the surface quality.

Green: Sufficient data

Red: Insufficient data (area needs further scanning)

Alignment

Select Mode of Alignment ⓘ

- Features
- Texture
- Hybrid
- Global Markers

Feature For objects with obvious geometric information.

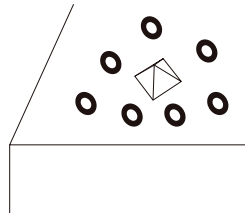
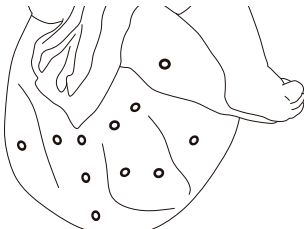
Texture For objects with rich texture or color information.

Hybrid For objects that are partly feature-rich and partly not, markers can help with alignment (Object Scan).

Combines textures and features to assist with portrait alignment(Portrait Scan).

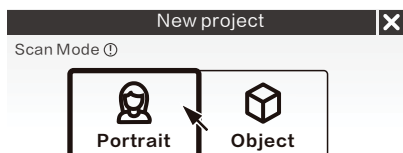
Global Markers If the object does not have enough characteristic features of geometry or texture, as well as if these features make up a periodically repeating pattern.

- Large object: Apply the markers directly onto the object.
- Small object: Apply the markers around the object (on the table).



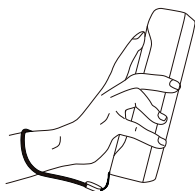
Portrait mode scanning

Create a New project group (or open existing project group). Select Scan mode Portrait.



Texture Flashing
Hair mode

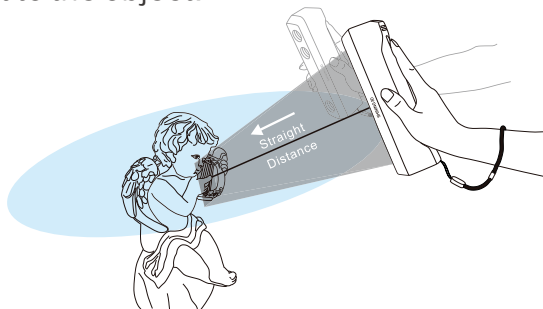
Turn on Texture Flashing and Hair mode



Scan

1. Straight

During scanning, keep the scanner cameras facing straight to the object.



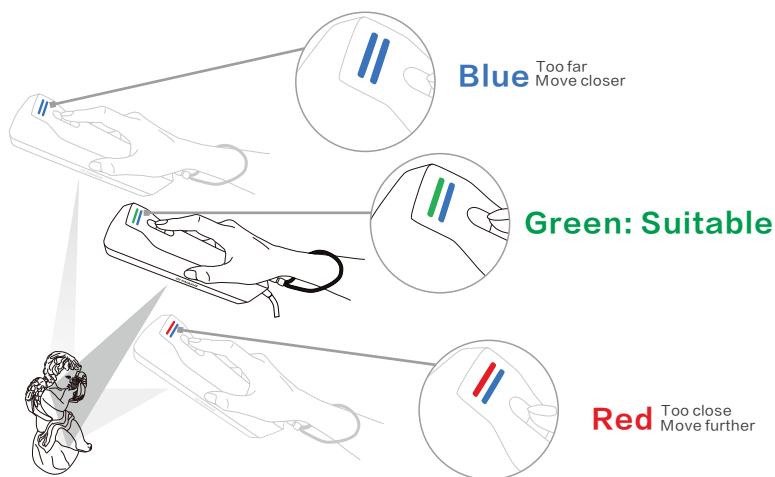
2. Moving

Move the scanner around the subject slowly and steady while checking the image on the screen. Maintain a suitable distance while moving.

Move the scanner over the surface to scan the entire object.

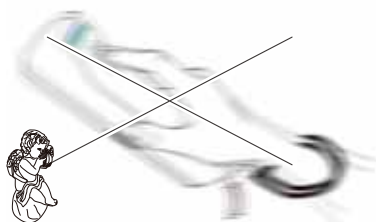
Distance

During scanning, it is crucial to maintain the distance between the scanner and the object being scanned.



Movement

Please move the scanner gently to continue scan and build an object surface.



Avoid fast movement



Scanned region with sufficient data

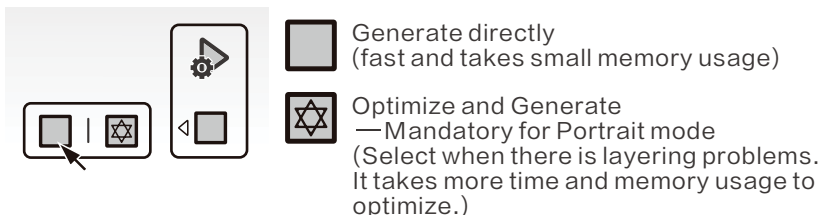
When you lost tracking, direct Einstar at a region you've already scanned to resume scanning .

Generate Point Cloud

Editing the data after completing or pausing the scan.



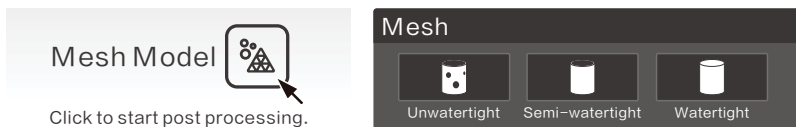
Generate point cloud after scanning and editing data.



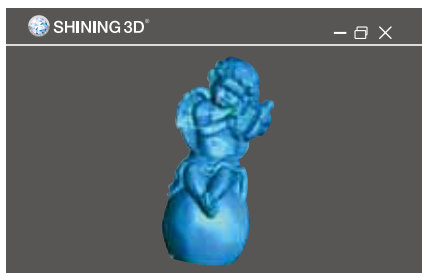
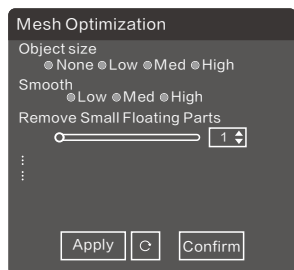
Mesh

Meshing is to convert the point cloud into a triangular mesh surface. The data after mesh can be directly used for rendering, measurement or printing.

Select the suitable mesh type for postprocessing.



Click Apply to preview meshing. Click Confirm to go with current result.

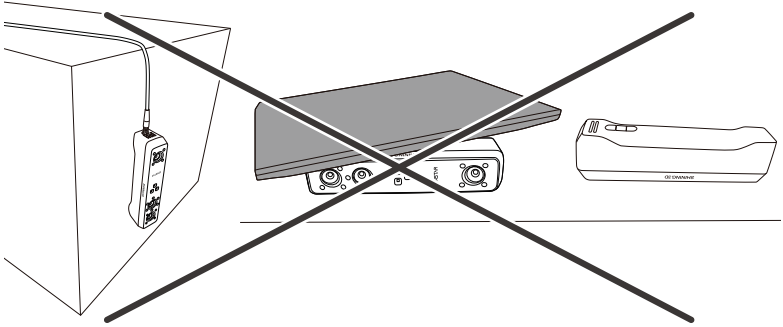


Safe Handling

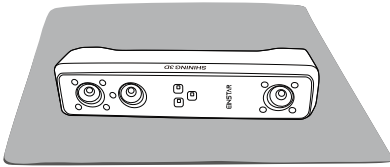
Avoid dropping, hanging or applying force to the scanner.

Avoid placing the scanner camera down.

Place the scanner on a soft blanket when not in use.



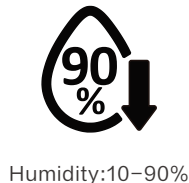
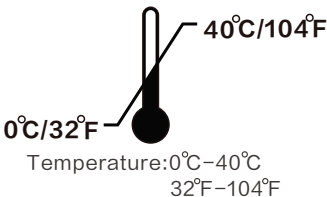
Please store all the items in the original case after each use.



To protect the camera glass



Operating Condition





SHINING 3D®

Technical Support

Register at support.einstar.com to submit a support ticket and track your ticket status.
User manual: <https://www.einstar.com/pages/manual>

Follow Us

Suggest visiting our YouTube channel to watch how-to videos and subscribe to view the latest videos of the products.

Facebook: <https://www.facebook.com/shining3d/>

Twitter: <https://twitter.com/shining3d>

Instagram: <https://www.instagram.com/shining3d/>

YouTube: <https://www.youtube.com/Shining3DScanner>

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