SHINING 3D Transcan C Multiple Scan Range 3D Scanner User Manual

SHINING 3D®

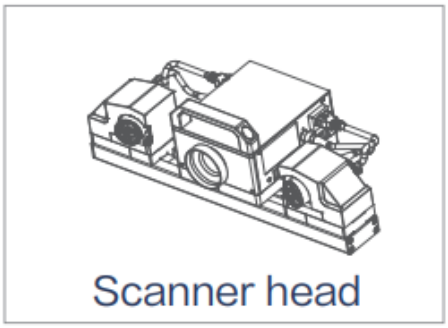
A Professional 3D Scanner for Diverse Industries
Transcend C

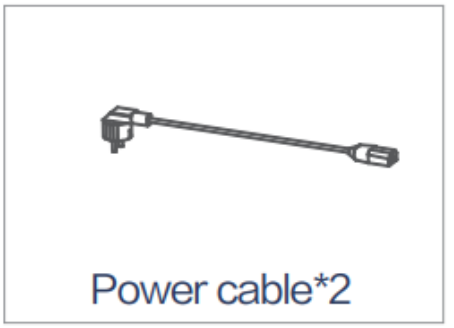
User Manual
Getting Started with Transcan C

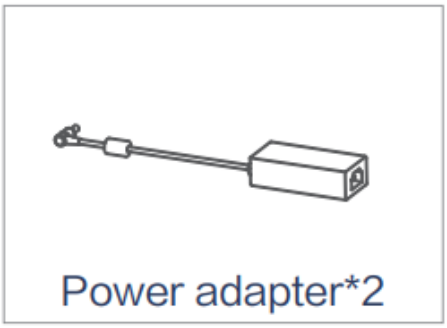
Contents

Preparation

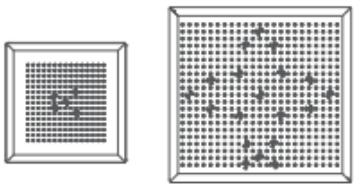
Equipment List


Scanner head

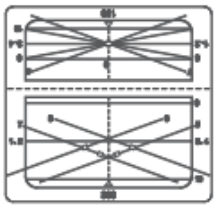

Power cable*2

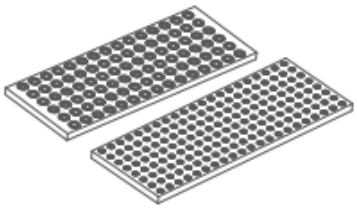

Power adapter*2


Device connection cable

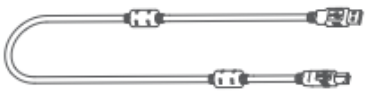

Calibration board
(150mm/300mm)


Calibration board bracket


Calibration pad


Marker


Turntable


Turntable connection cable


USB drive


Tripods

Light Box Recommendation

Power 60W
lumen 12000-13000LM
input voltage 110-240V
color temperature 5500K±200K

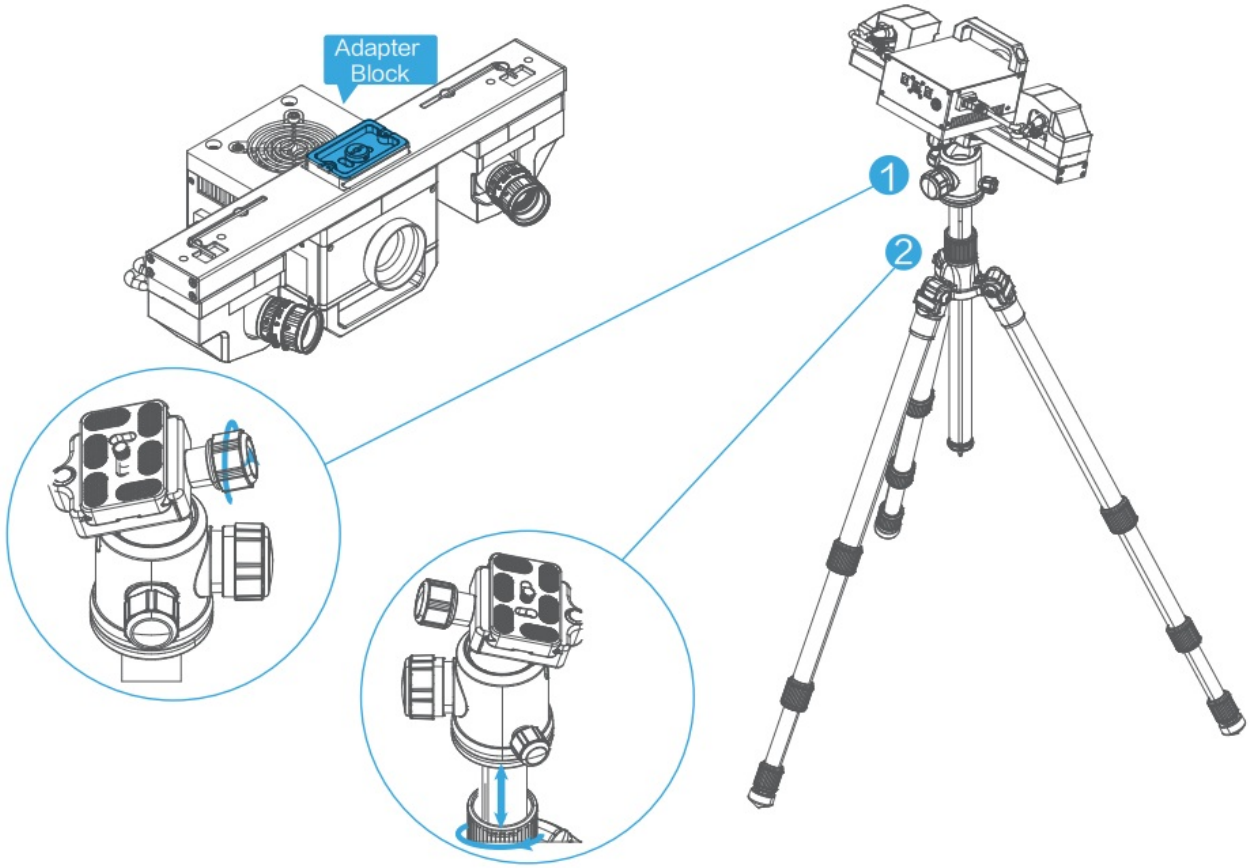
Computer Requirements

Recommended setting
OS: Win10 64 bits
CPU I7-8700 or higher
Graphics card NVIDIA GTX1060 or higher
RAM ≥32G
FROM ≥4G
USB port high speed USB 3.0 port 1 USB 2.0 port

Hardware Installation

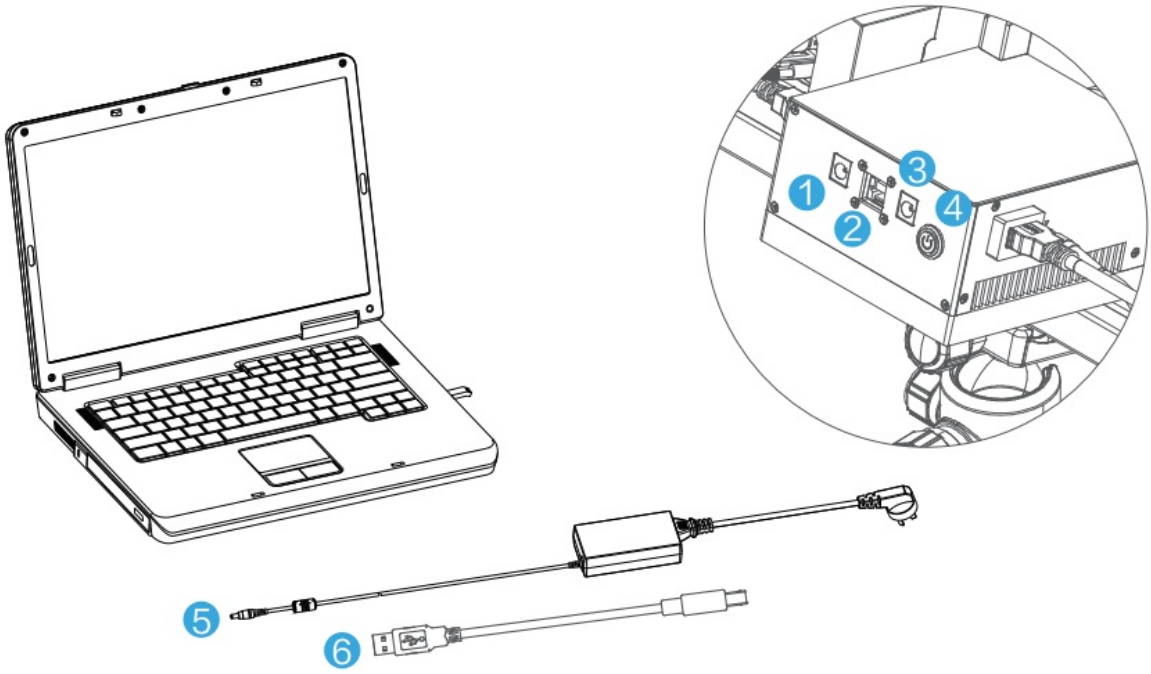
Scanner Adjustment

1. Open the tripod and place it on the ground. Adjust the tripod's three feet.
2. Adjust the lock ② to release and adjust the vertical slide rod to an appropriate height, and the lock ② needed to be locked after the adjustment.
3. Remove the adapter block from the tripod, place it into the slot at the bottom of the scanner assembly, then tighten the screws.
4. Insert the scan head assembly into the top groove of the tripod, adjust the orientation and tighten the screws to fix it as shown.
5. Based on the need, shake the rocker to adjust the device height. Then tighten the latch.



Connect Scanner

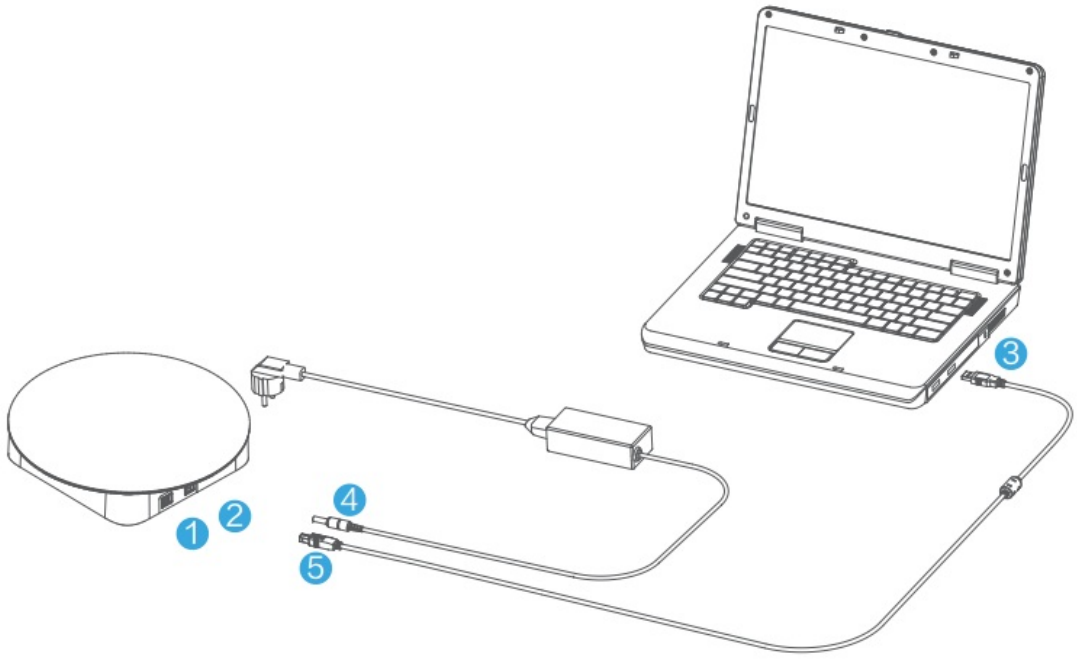
1. Confirm that power switch ④ is not pressed.
2. Connect the power cable to the adapter port ⑥ first.
3. Inserted the adapter socket ⑤ into the device ③ port.
4. Plugin the power adapter into a power source.
5. Connect the device to the computer USB 3.0 port ② with the device connection cable.
6. If using a light box, plug the light box connection cable into port ①.



Hardware Installation

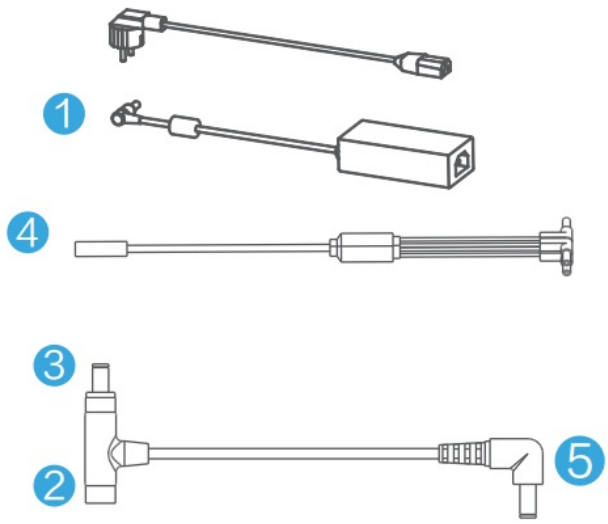
Turntable connection

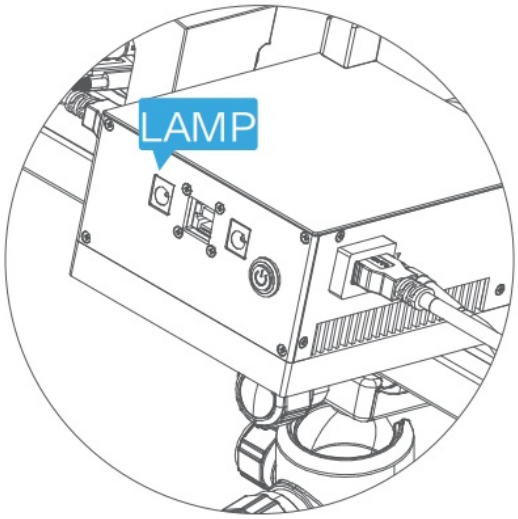
1. Connect the turntable connection cable ⑤ into the turntable USB port ①.
2. Connect the turntable connection cable ④ to the computer USB port.
3. Connect the turntable power cable ③ into the turntable port ②.
4. Plugin the power adapter to a power source.



Lightbox connection (optional)

1. Connect the scanner lightbox cable to the lightbox power cable .
2. Connect the scanner lightbox cable to the one-to-four connection cable .
3. Connect the scanner lightbox cable to the LAMP interface shown on the back of the scanner.



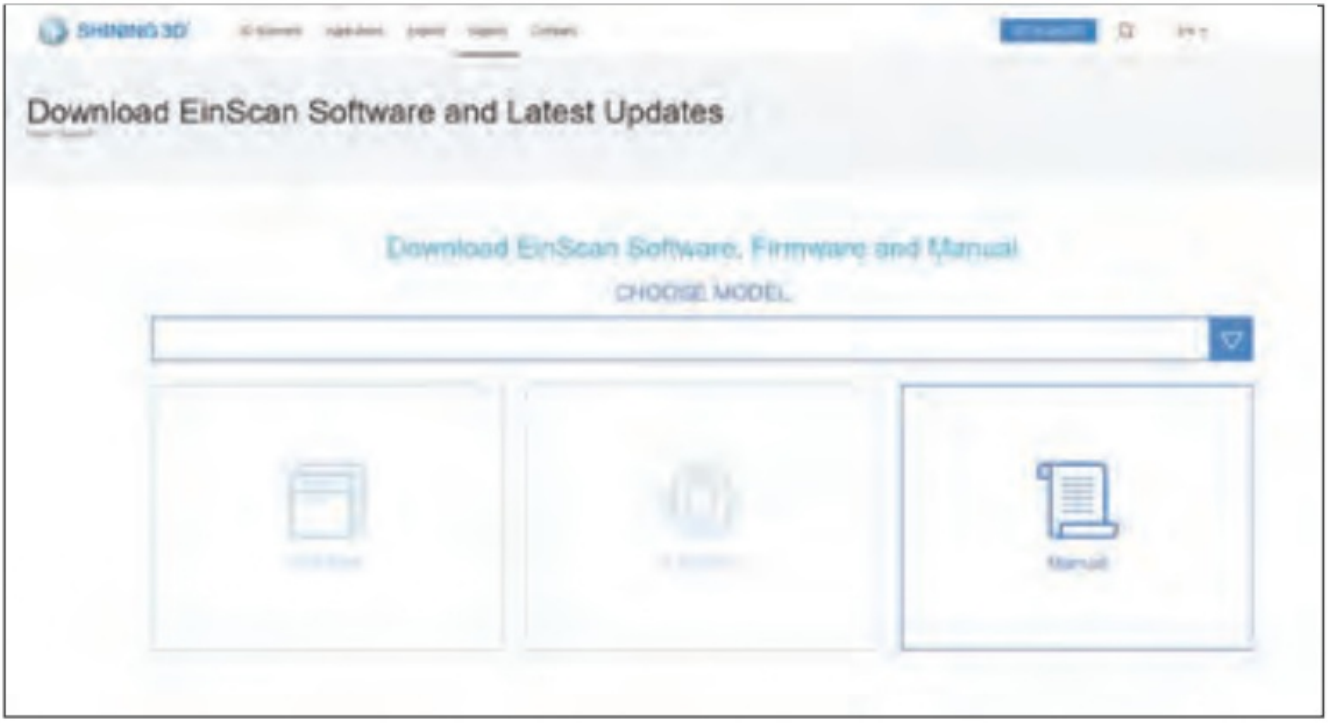


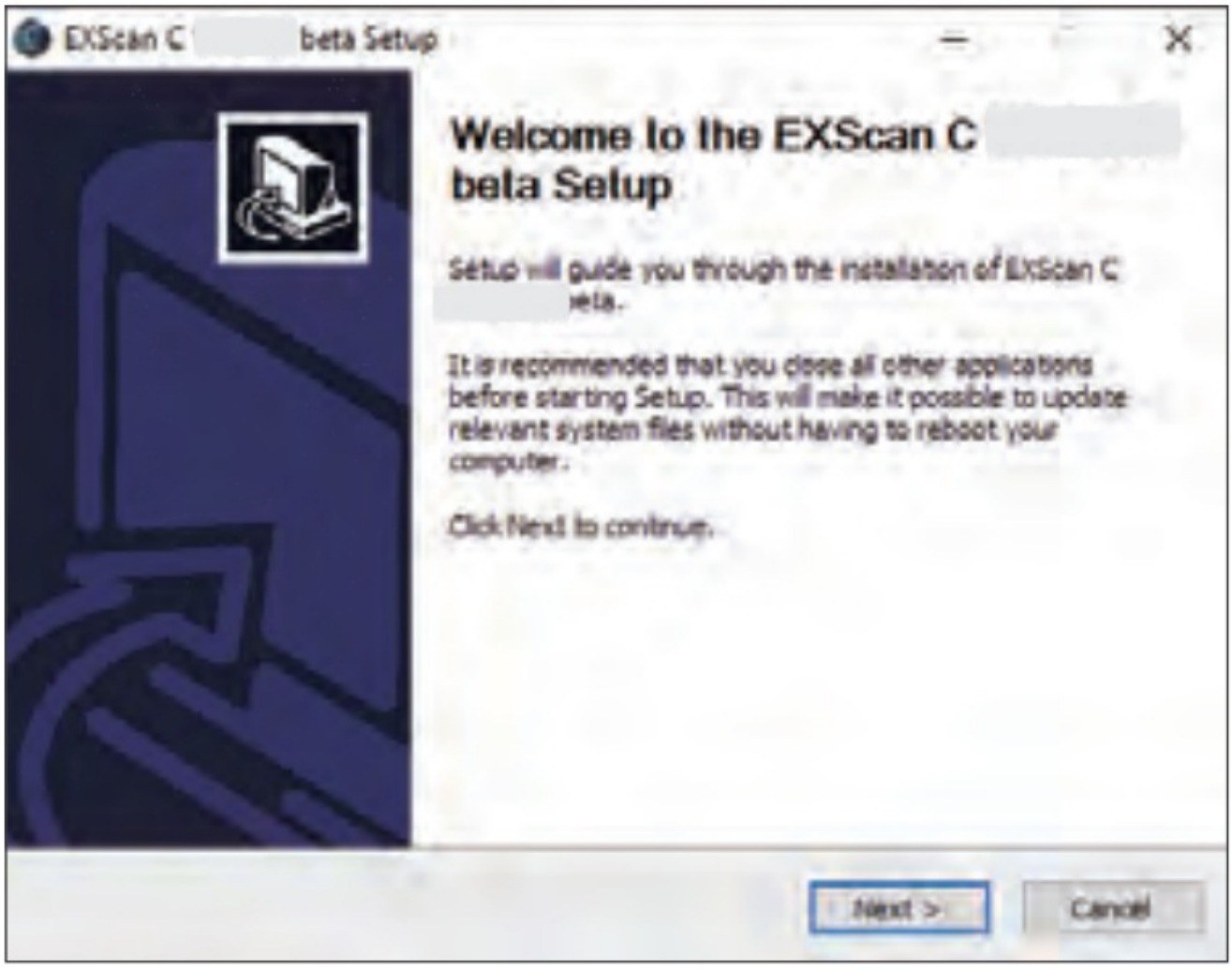
Note

1. The lightbox switch is used in conjunction with the lightbox switch button in the software white balance interface.
2. Make sure both the lightbox switch are on for white balance testing and texture project scanning.
3. After creating a new project in the scanning interface, when selecting the texture project, it will prompt the status of the lightbox in the current texture scanning state, please choose whether to access the lightbox according to the prompt information.
4. Whether to open the lightbox while scanning, depends on whether you open the lightbox while doing the white balance test.
5. Make sure the lightbox connection cable is connected in the correct order, and the ports connected to each lamp are connected to a one-to-four adapter cable.

Software Download

Open **http://www.einscan.com/support/download/**
Select your scanner model to download the software. Follow the guide to finish the software installation.





Equipment Adjustment

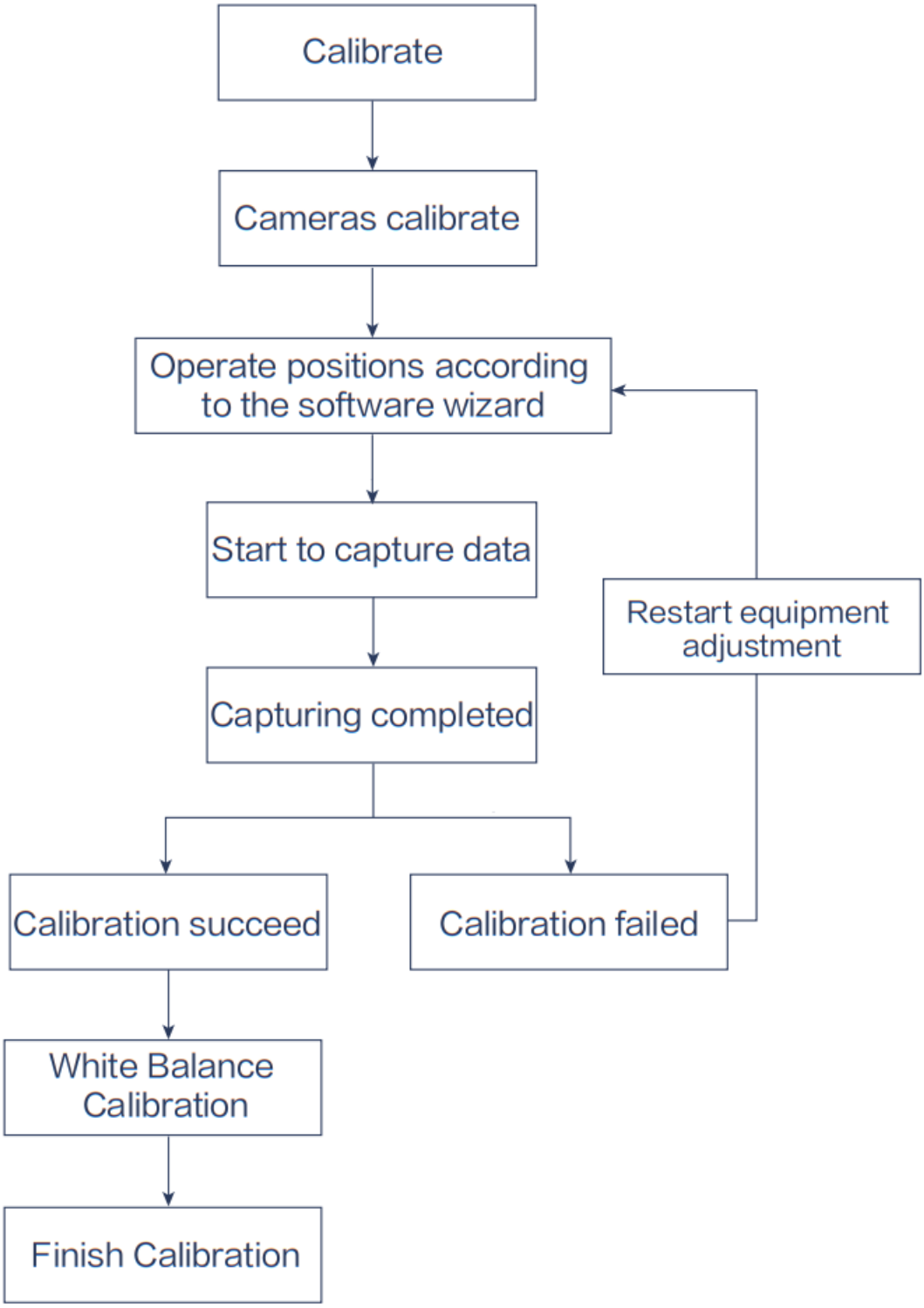
1. Software installation

2. Software Activation
3. Scanner adjustment
4. Select scanning range
5. Adjust camera position according to the range
6. Adjust projector focus
7. Adjust camera angle
8. Adjust camera aperture
9. Adjust camera focus
10. Turntable & lightbox connection check

Calibrate

Calibration is the process to ensure the device will scan with optimal accuracy and scan quality. When the software is installed the first time, it automatically goes to the calibration interface.
Different calibration boards are used for scanning ranges of 300mm and 150mm. Select the corresponding calibration board as shown in the calibration interface.

Calibrate process



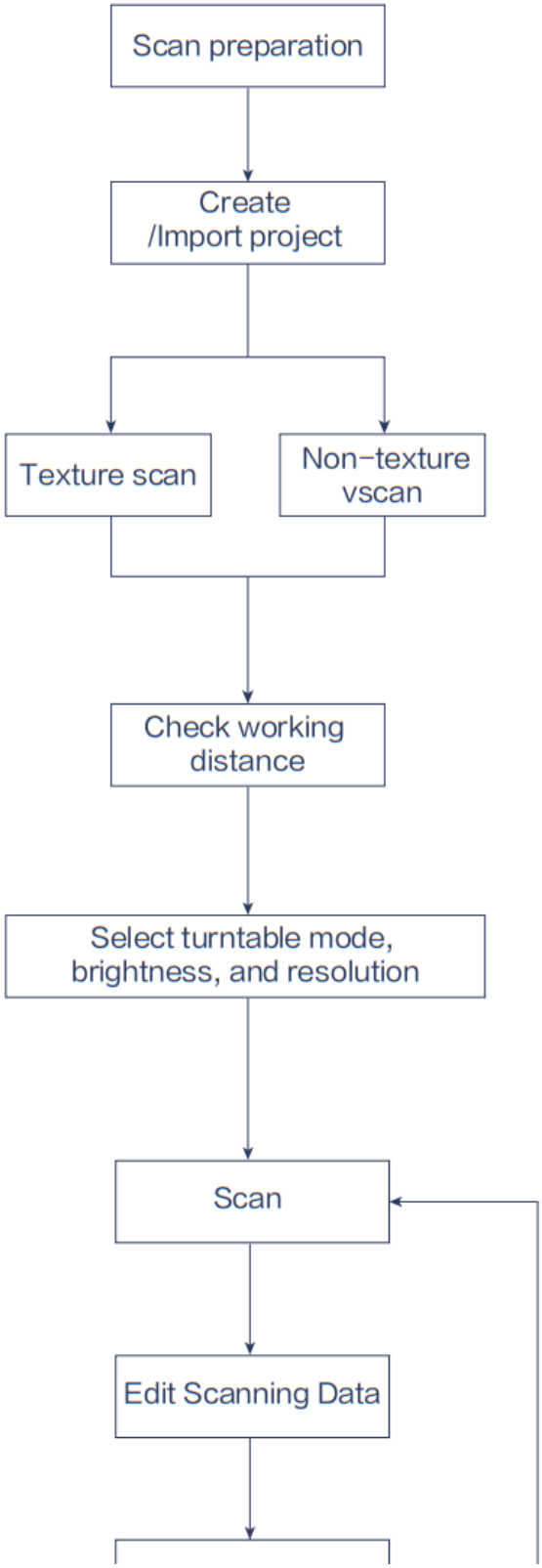
https://youtu.be/jBeQn8GL7rc

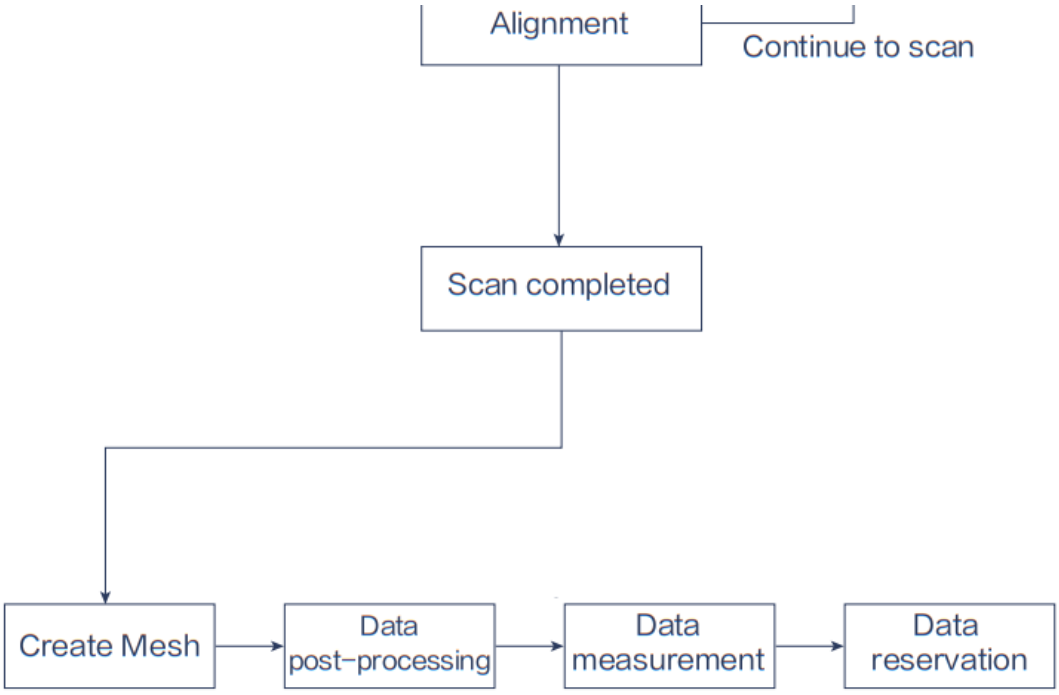
Calibrate Video

Note

1. Make sure to protect the calibration board and keep it clean, with no scratches or stains on both sides.
2. The calibration board is matched to the Device with the same Serial Number. Doing the calibration with an incorrect calibration board will fail to generate good scan data or optimum accuracy.
3. Clean with pure water only, do not use alcohol or other chemical liquid to clean the calibration board.
4. To prevent damage to the calibration board, do not drop the board, and do not place heavy objects or irrelevant objects on the board.
5. After usage, store the calibration board in the velvet bag immediately.

Scan Process





Scan technics

Hard-to-scan objects

- Transparent object
- Strongly surface reflective objects
- The shiny and black object

Solution

- Spray on the surface

Objects that undergo deformation

- Hollow objects such as Eiffel Tower souvenirs
- Hair and similar lint-like structures
- Recommend not to scan

Summarize

Scan Range mm	150 X 96	300 X 190
Accuracy mm	≤0.05	
Point Distance mm	0.03 0.07 0.11	0.06 0.15 0.23
Alignment Mode	Marker Alignment; Feature Alignment; Manually Alignment	

Technical support
Register at support.shining3d.com for support or contact through:
For more videos of the scanners, please follow our YouTube channel " SHINING 3D".

APAC Headquarters SHINING 3D Tech. Co., Ltd. Hangzhou, China P: +86-571-82999050 Email: sales@shining3d.com No. 1398, Xiangbin Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, China, 311258	**EMEA Region** SHINING 3D Technology GmbH. Stuttgart, Germany P: +49-711-28444089 Email: sales@shining3d.com Breitwiesenstraße 28, 70565, Stuttgart, Germany

Americas Region
SHINING 3D Technology Inc.
San Francisco, United States
P: +1415-259-4787
Email: sales@shining3d.com
1740 César Chávez St. Unit D.
San Francisco, CA 94124
www.shining3d.com

Documents / Resources

	SHINING 3D Transcan C Multiple Scan Range 3D Scanner [pdf] User Manual Transcan C, Multiple Scan Range 3D Scanner, Transcan C Multiple Scan Range 3D Scanner, Scan Range 3D Scanner, Range 3D Scanner, 3D Scanner, Scanner