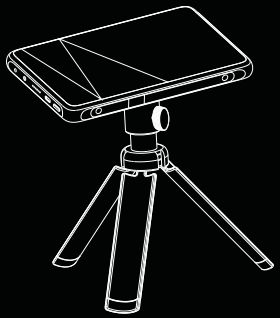
User Guide

V1.01



This guide provides information about the preparation and basic installation operations.

Reading Tips

1.Product Packing Documents :

(1)Items Checklist

(2)User Guide

2.Software Installation Package and Other Operating Instructions Download Path :

Download via http://en.infly3d.com

(1)Installation Package of “Model Processing Software” 3DModelProcess Software .

(2)“PLAY APP” Operating Instructions.

(3)Usage Precautions for Installation the equipped APP

3. Tips for Usage :

(1) The system software supports automatic updates. It is recommended that you should update them as prompted.

(2) If the Projection Settings App has been used, please reset the projection settings to defaults before scanning.

Warnings:

The sales cannot be returned if the labels of “VOID IF REMOVED”on the device are torn.

Do not look directly at the projected light, or project the light directly at eyes.

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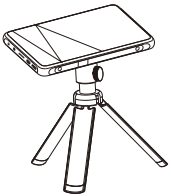
Product Description

Redefine 3D scanner via being portable, sharable, interactive and creative.



The globally original Android portable high-precision 3D scanner is equipped with a 7.0-inch high-definition display, embedded computing power and a large-capacity lithium battery. It is a good helper for industrial VR/AR color reverse modeling, 3D portrait shooting and outdoor operation. Scan and export 3D models without connecting to a computer. Based on cloud computing and storage technologies, users can compute, store, and share 3D models via the cloud. The full automatic and simple operation makes it available for users at all ages.

Scope for Scanning Objects

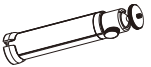
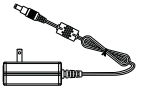
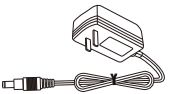
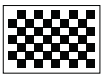
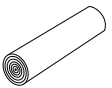
Notice: √means scannable, √-means partially eligible for scanning, ×means unscannable, or the scanning effect is not satisfactory.

Type	Category	(Un) Scannable	Comment
Material	Metal (non-high-reflective)	√	
	Gypsum	√	
	Plastic (Opaque)	√	
	Paper Material	√	
Special Surface	Mirror Surface	×	
	High-reflective	√	Noise is in the reflective area; powder is required for scanning.
	Glass	×	
	Jade	√-	Light proof is required
Color	Black	√	
	White	√	
	Multiple Complex Colors	√	Color uniformity is required

Technical Specifications

Product Model	Scanner
CPU	2.0GHZ, 6 core ARM processors
RAM	4GB
System	Android 7.1
ROM	64G/32G
Scanner Dimension	(L)192×(W)122×(H)15 (mm)
Weight	Net Weight 520g
Turntable Dimension	φ200×50 (mm)
Scanning Range	(Vertical) 300(H)×200(L)×250(W)(mm)
	(Horizontal) 200(H)×300(L)×250(W)(mm)
Texture Resolution	2 to 13 Megapixels
Model Precision	0.1mm@450mm (scanning distance 450mm)
Fill-flash Mode	Projection light source
Scanning Speed	≤2min/circle
Scanning Computing Mode	Cloud Server
The screen	7.0-inch 2K high-definition capacitive touch display
Battery	6200mAH
Data Transmission	Type-C, Blue tooth, WiFi
Projection Resolution	1920×1080
Power	12VDC Quick charge
Turntable Loading	≤5KG
Camera	13 million (2)
Output Format	ply/stl/obj

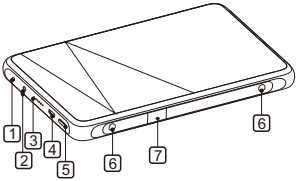
Components

Sequence	Commodity	Components
1	Scanner	
2	Tripod	
3	Scanner AC Adapter 12V	
4	Type-C Data Cable	
5	Turntable	
6	Turntable AC Adapter 13V	
7	Calibration board Calibration Board Bracket	
8	Positioning Pad	

Components

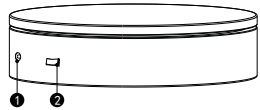
Sequence	Commodity	Components
9	Blue Tack	
10	Model (Sample)	
11	Cleaning Cloth	
12	User Guide (including Warranty Card and Certificate)	

External Interface and Function Introduction



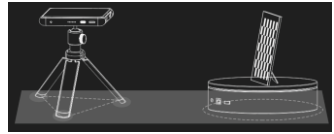
1 Charging Port
2 Headphone Jack
3 Sound Hole
4 Type-C Hole (Data Transmission)
5 On/Off Button
6 Camera (2pcs)
7 Projection Light Source

❶ Charging Port
❷ On/Off Button



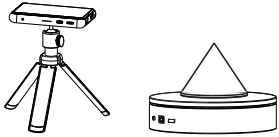
Device Operation, Installation and Layout

Step one:
Connect scanner to tripod.
Step two:
Place the scanner and the turntable in the positions on the positioning pad accordingly; put the calibration board/scanning object in the right center of the turntable.

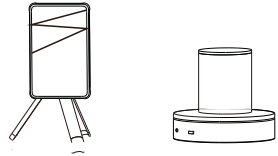


Scanning Range

(Horizontal) Scanned object range:
(H)200×(L)300×(W)250 (mm)



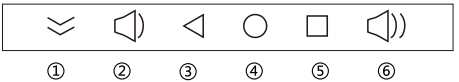
(Vertical) Scanned object range:
(H)300×(L)200×(W)250 (mm)



Notice: When scanning vertically, the calibration board should be placed accordingly.

Hidden Shortcuts Description

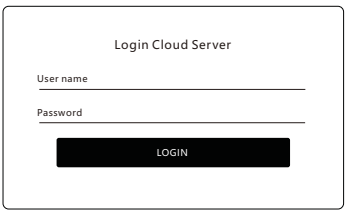
Find the hidden “Operation Shortcut Key” by pull-up from the screen bottom.



①Hide menu ②Volume down ③Back to previous

④Go to home ⑤Manage running app ⑥Volume up

Cloud Server



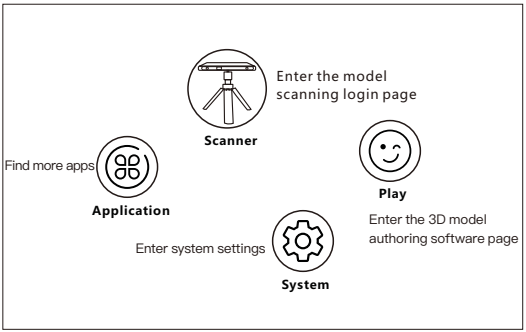
Cloud Server

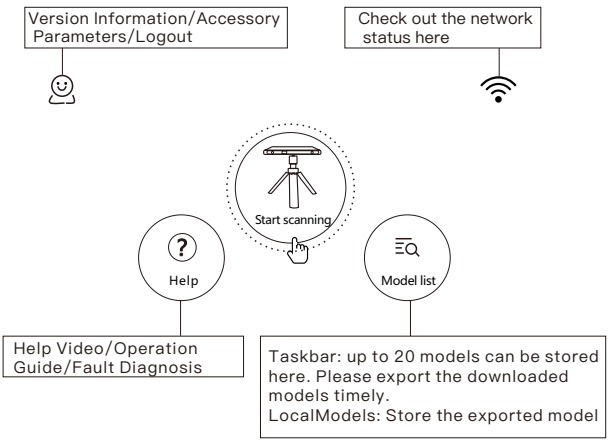
①The device utilizes Cloud Server as a computing platform.

②Login via the user name and password.

③Log in the model management page through http://en.infly3d.com.

Functional Interface Display

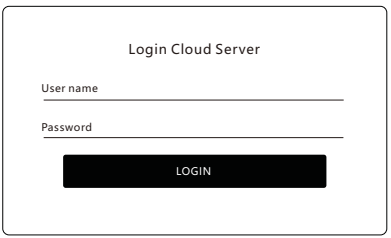




1. 3D Scanning Operating Mode

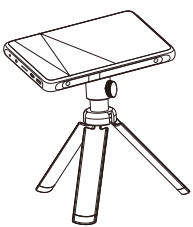
Step one: Login

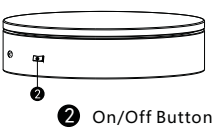
Register user name and set password



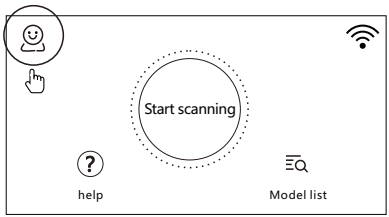
Step two: Preparation

1) Connect the scanner to the tripod;
2) Connect the power to the turntable and switch on.

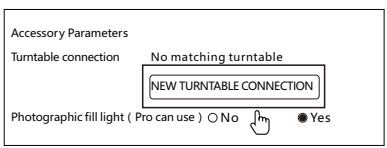




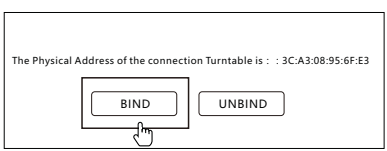
Step three: Bind the turntable
(After binding the scanner to the current turntable, it is convenient to scan since the system will automatically pair the bound turntable)



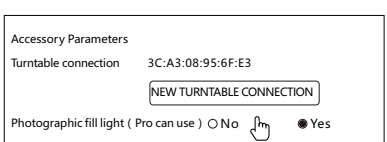
Choose “Me”



NEW TURNTABLE CONNECTION
Bind New Turntable



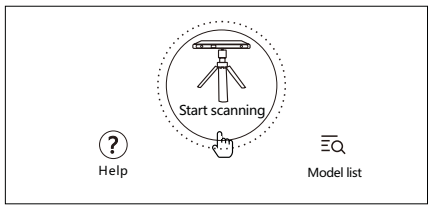
NEW TURNTABLE CONNECTION
Check the label at the turntable bottom for the “Turntable Physical Address” to see whether the address is consistent with that of the current turntable.



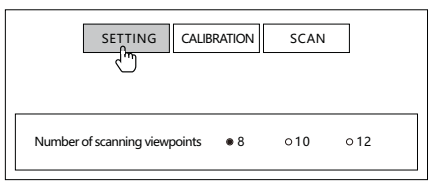
Complete binding the turntable

Step four: Start scanning

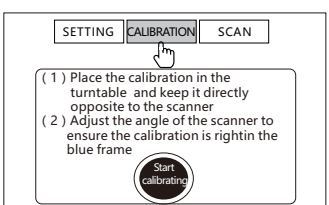
1) Click"Start scanning" ;

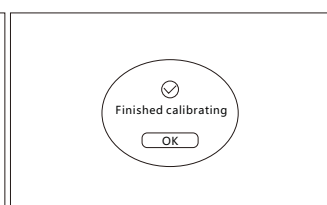


2) Click "Setting" to select the scanning face according to demands;



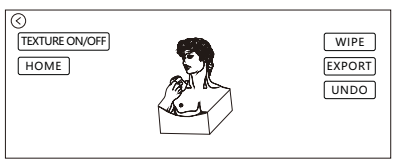
3) Click "Calibration" and adjust the scanner to ensure the calibration board is completely right in the blue box. After the calibration, place the model in the center of the turntable;





4) Tap the “red circle” on the screen to get the best exposure of the model;

5) Click “Scan” to finish the autorotation of the model and get a 3D model through data acquisition;



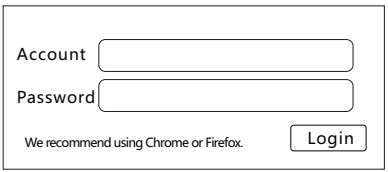
6) Export the model with the format: ply/stl.

Complete the 3D model scanning.

2. Model Management Page

The website of model management page: http://en.infly3d.com

It is recommended to use “Google Chrome” and “Firefox browser”.



Login mode:

Use the registered user name and password to check all scanned models in Cloud Server.

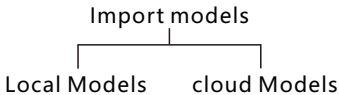
【Notice】
1)All models scanned by the device under Cloud Server are stored in the “Model Management Page”.
2) If the device models are deleted, the web page still retains them.

Model Processing Software 3DModelProcess

3DModelProcess

Software download link: http://en.infly3d.com

1. Click the drop-down button beside the “Model” to select the model import channel.



2. Model processing mode: it supports single model and multi-model processing.
   Switch either operation mode by clicking “Process” and “Mesh” at the bottom of the menu bar:

3.Export format:ply/obj/stl/zx3d

Please refer to the description below the software operation page for specific instructions.

Appendix

FAQ

Q: Tip: "Calibration failure, please try it again".

A: ①Check whether the scanner and the turntable are right in the positions on the positioning pad; ②Ensure that the calibration board is placed in the center of the turntable; ③Confirm that the calibration board is completely in the calibration frame. Please calibrate again after finishing the above steps.

Q: After clicking "Scan", it displays "Unable to connect to the network, please check the network connection!"

A: Please check the WiFi connection.

Q: Tip displays "Please calibrate again and ensure that the calibration board is aligned with the scanner and the device is stable".

A: During scanning, make sure that the desktop is not shaking, the device is stable without any movement, and there is no complex light source around; please try again after checking the above.

Q: Tip: "Uploading timeout, please enter 'Model list' and click 'Upload'".

A: If the uploading exceeds 3 mins, it's recommended to check the network and enter the list to upload the model.

Q: The turntable fails to work or it fails to enter the scanning page when in use.

A: Please check whether the turntable is on. If it can't be solved, please restart the turntable and the software.

Q: When many people use the scanner at the same time, the turntable is connected to the power supply and switched on according to the operation requirements. Then the device enters "start scanning", but the turntable fails to work.

A: Please check whether the scanner is paired to the turntable in use successfully. Click "Me" to check "Accessories Parameters" and the "Paired Turntable" address (from the bottom of the turntable). If it is inconsistent with the current address of the turntable, please select "Pair New Turntable" to check the address of the turntable and click "Bind". A turntable can only be bound to one scanner. Once the turntable is bound, re-enter the scanning page to try it.

Q: Device overheat

A: It is a normal phenomenon that the device will heat after continuous scanning or video-playing of 1 to 2 hours. Please shut down the device with a 10-minute break.

Q: Fuzzy projection

A: Wipe the front lens glass with the cleaning cloth.

Q: Noise can be seen in the scanned file.

A: Make sure that the object to be scanned, the scanner and the turntable are placed without any movement during scanning, there are no objects within 300 mm of the turntable, and no movable light source or reflective objects are behind the turntable.

Remarks: If your problems are beyond these above and the device fails to work, please click: Help - > Fault Diagnosis, and we will provide assistance for analysis and solution.

Precautions for Use

1.Please use it in the indoor environment at the temperature of -10°~35°. The scanning effect would be better under dark light.

2. Do not disassemble or modify this product.

3. Please do not use it in places where there are dust or cigarette smoke.

4. It is a normal phenomenon that continuous and long-time use for scanning or projection can cause overheat that leads to automatic shutdown.

5. Do not wet it by exposure to liquid such as fresh water, sea water, milk, soda or soap water.

6. Do not use or store it in the places at extremely high temperature, such as near fire and close to heater. This product is forbidden to be used in the areas with poor ventilation, such as in quilt/blanket bags.

7. Do not hit it fiercely. Do not hammer it, pile up heavy objects on it, step on it or drop it down.

8. Do not touch or insert any fingers into the connector.

9. We are exempt from liabilities for any damages or losses caused by this product or any claims for compensation proposed by a third party.

10. Please use it on a stable or flat surface with auxiliary bracket.

11. We are not responsible or liable for any property and profit losses, and claims for compensation proposed by a third party arising from the usage of this product.

12. In case of any faults, please stop using the device and contact your distributor or authorized maintenance agency.

Federal Communications Commission (FCC) Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this device not expressly approved by Xian Chishine Optoelectronics Technology Co.,Ltd may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Non-tropical Safety Warning Label

It means that the device with the label is designed and evaluated according to the climatic conditions in non-tropical areas. Therefore, it is required to be used only in non-tropical climatic conditions. There may be potential safety hazards when used in tropical climatic conditions.

Warranty Card

Warranty Instructions

- The warranty card shall be kept as voucher in a proper way for further maintenance.
- The warranty period shall be twelve months from the date of purchase.
- During the warranty period, if there are any quality problems and faults under the circumstances of normal use and maintenance, free maintenance and replacement parts will be available after verification.
- The company reserves the right to amend and interpret all contents.

Free maintenance is unavailable for the following cases:

- The product is damaged due to incorrect installation and operation.
- Any parts of the product have been repaired, altered, refitted and replaced by technicians from other companies or organizations.
- The product number has been altered or it is inconsistent with that on the certificate.
- The product is damaged due to negligent use or infiltration of water or other substances.
- There are any faults or damages caused by accidents/natural disasters.

Information

Thank you for selecting our products. Please carefully read it, fill in the warranty card and keep it properly for better services.

Customer name		Contact	
Customer address		Contact number	
Product name		Product model	
Date of purchase		Manufacturing number	
Maintenance record	Date	Failure causes and solutions	

This product is qualified according to the delivery inspection.

(Model) _____

(Checker) _____

(Date) _____

Redefine 3D scanner via being portable, sharable, interactive and creative