

CR Studio

Quick Guide



Device unboxing

The whole set includes: host, turntable, turntable panel, tripod, Power cable, data cable, power adapter, handle mounting screw, usb flash drive and turntable control cable



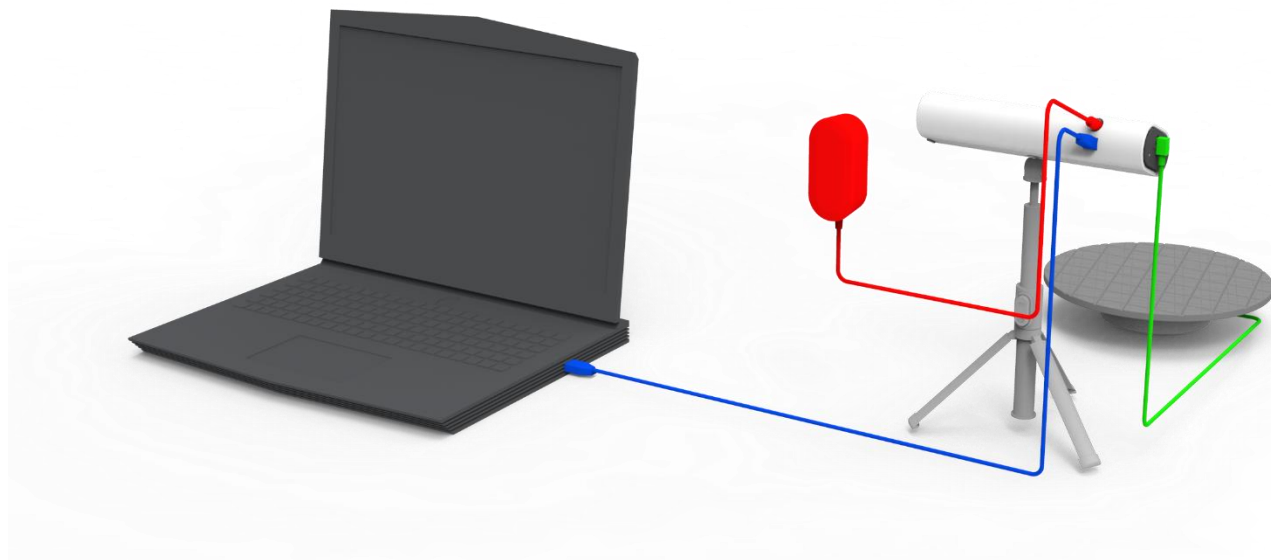
The handheld components will be shared on Creality Cloud, and you can use 3D printer to print.

Device Installation

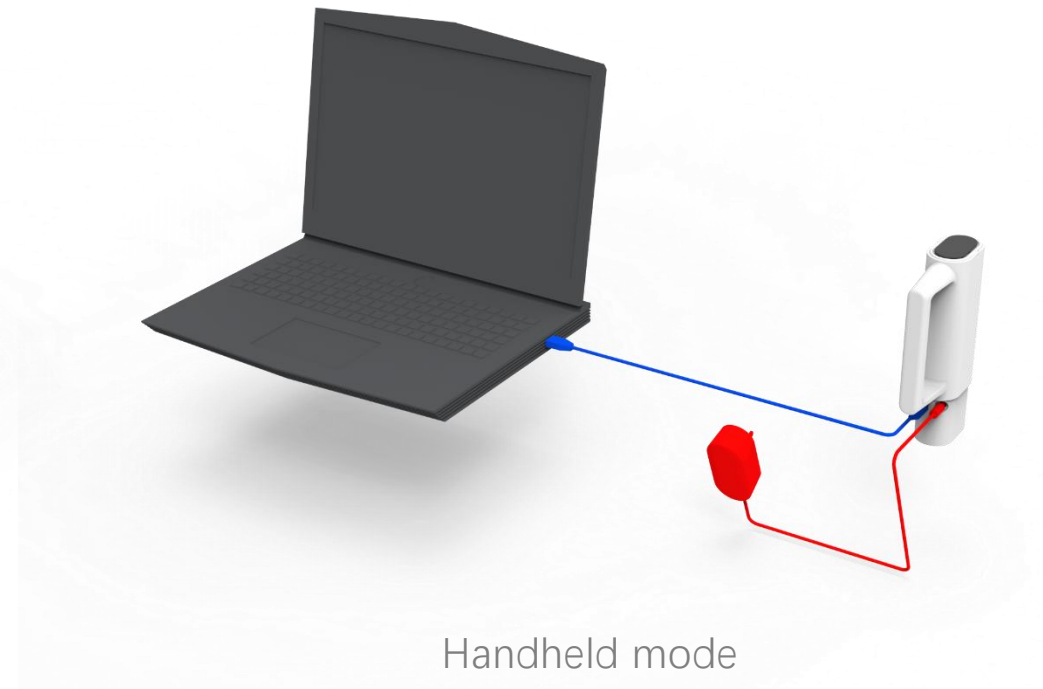
The device has two working modes, turntable mode and handheld mode

- Power cable
- USB3.0 cable
- Turntable control line

- Power cable
- USB3.0 cable



Turntable mode



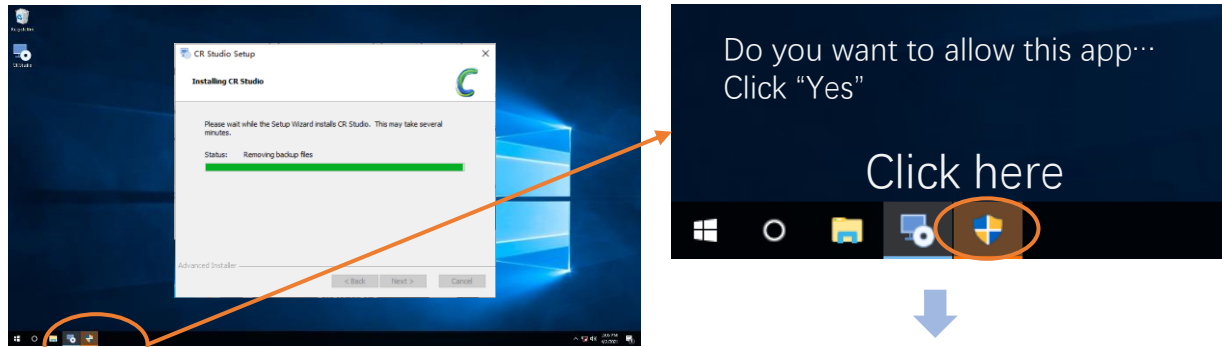
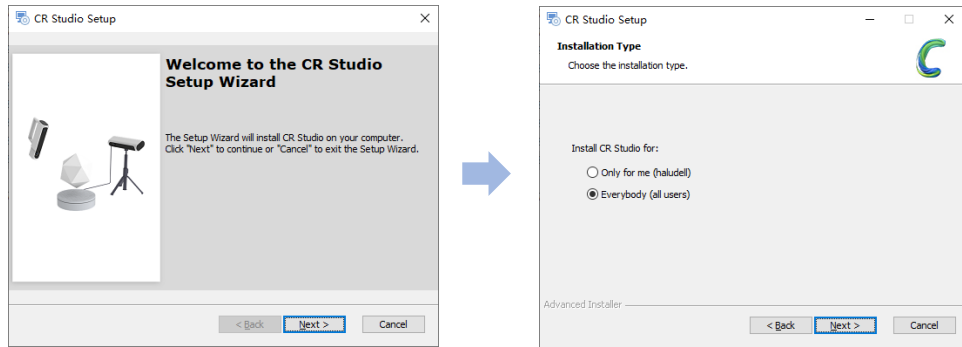
Handheld mode

PS: Connect the USB 3.0 cable before connecting the device power cable when the computer boots up

Software Installation

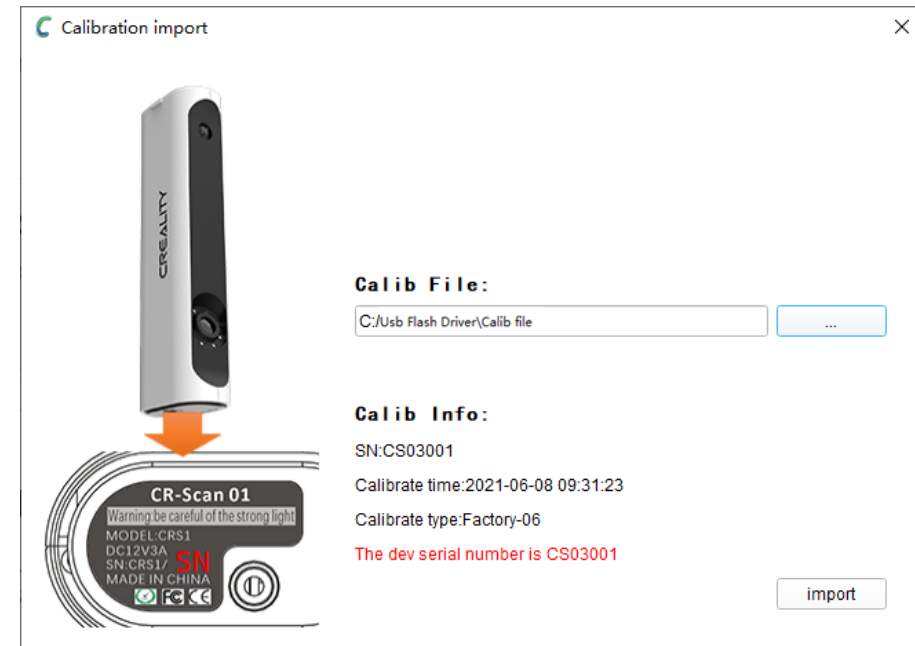
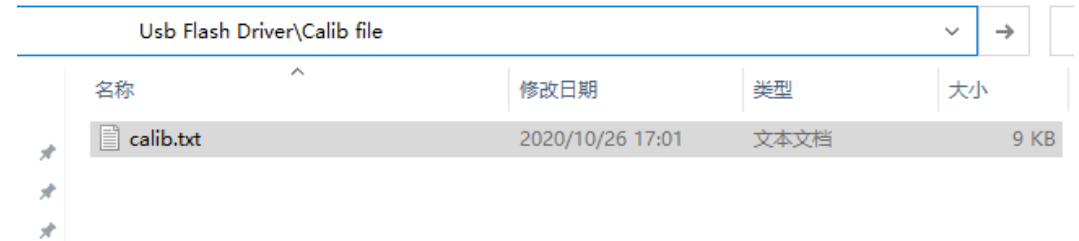
Install the software and copy the device's supporting configuration file

Installation Software



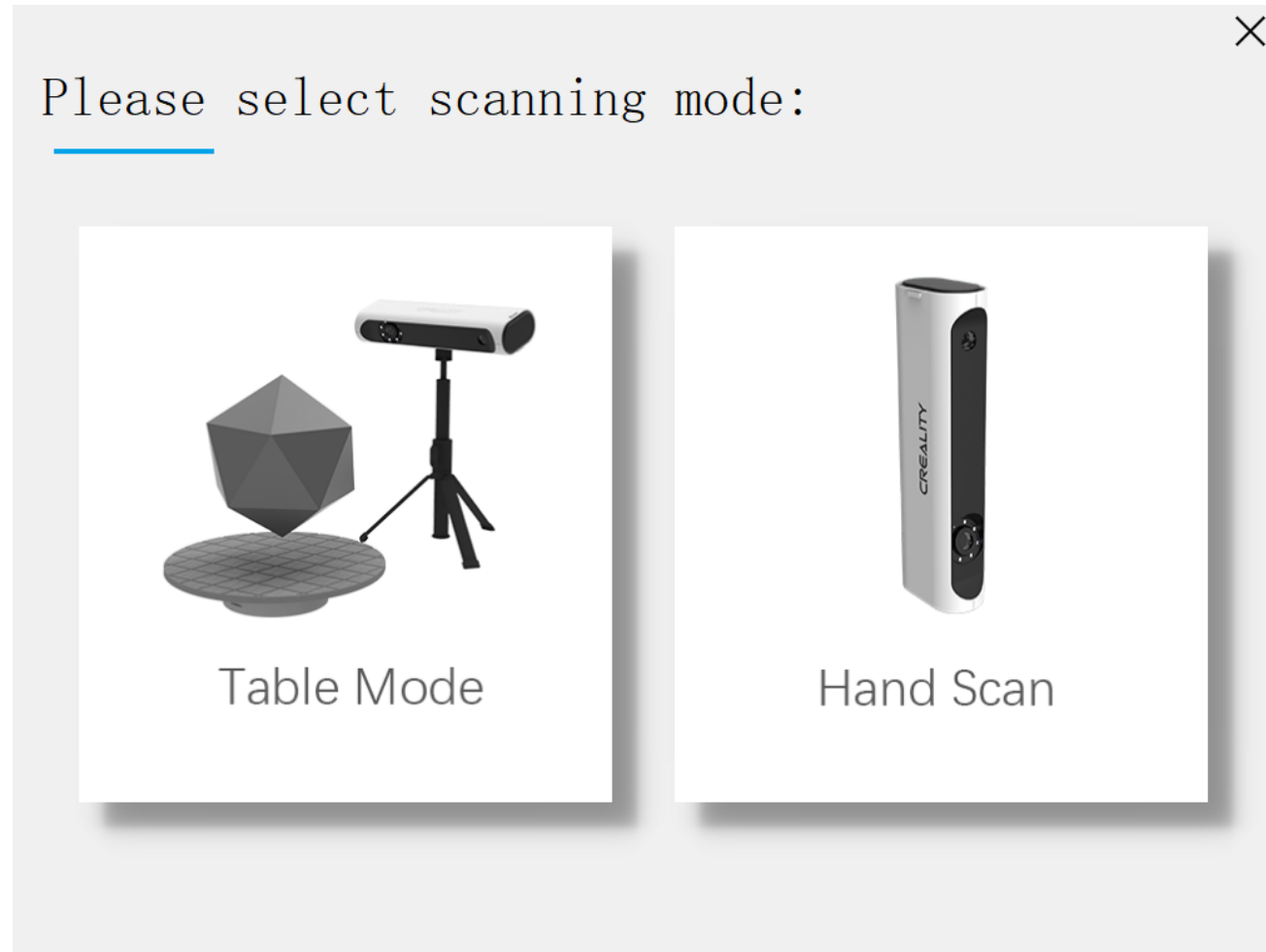
Finish

import calib file



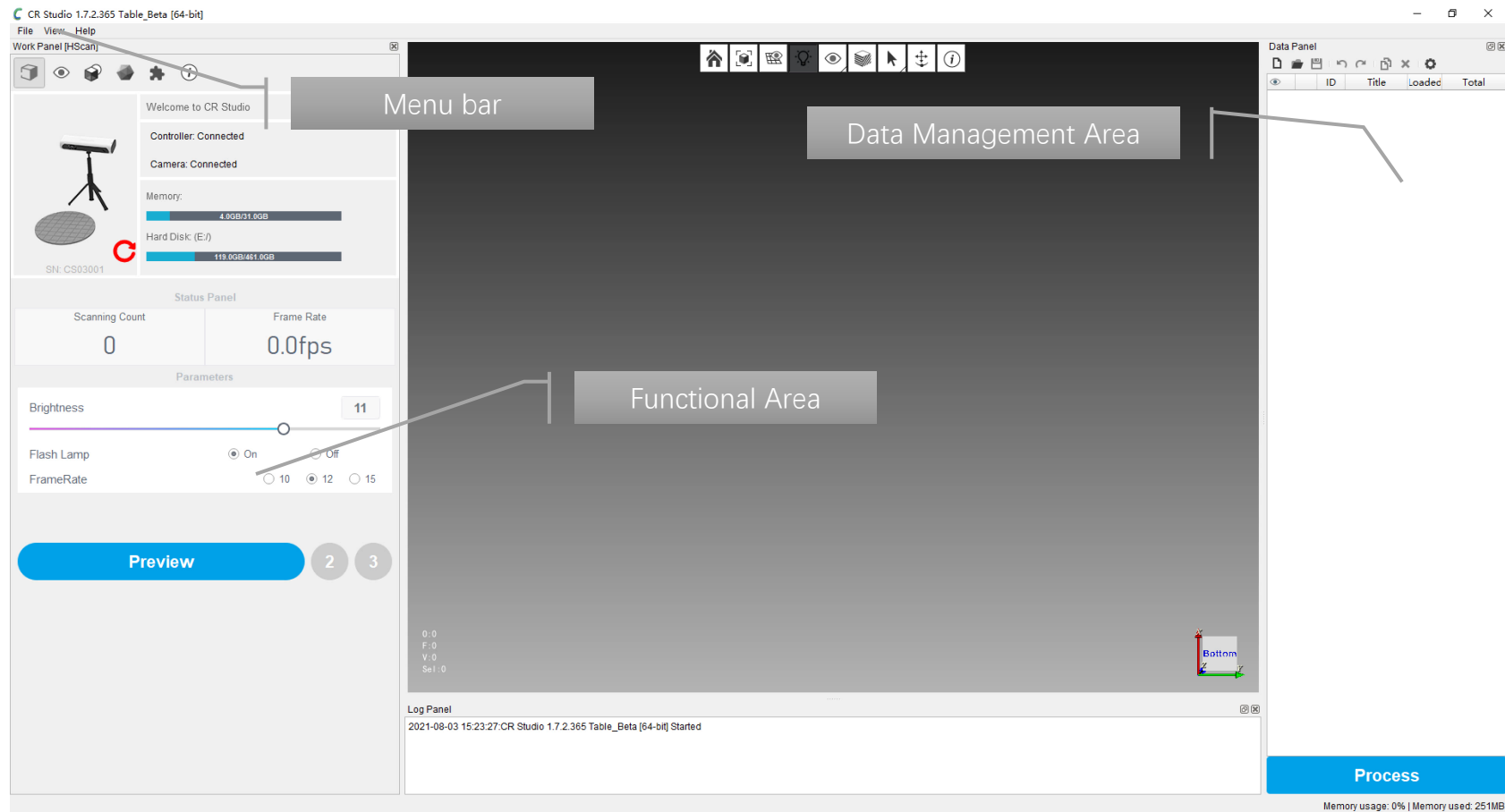
Launch Software

Start the software and select the turntable scanning mode or handheld scanning mode



Software Interface

After selecting the scanning mode, enter the main interface of the software



Shortcut key

1. Main shortcut keys

1.1 Handheld models – start/stop acquisition



1.2 Select the model rotation center



1.3 Rotating models



2. Edit Mode

2.1 Selection of models



1.4 Panning Model



1.5 Scaling models



2.2 De-selection model



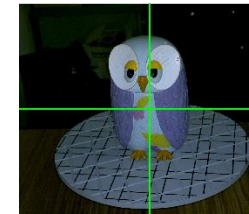
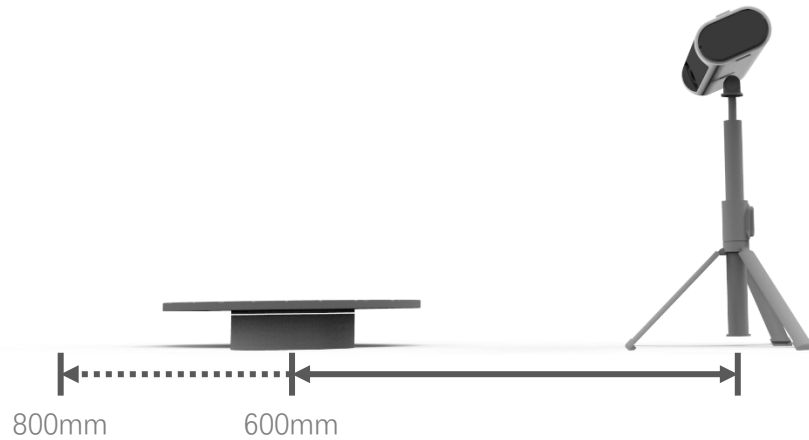
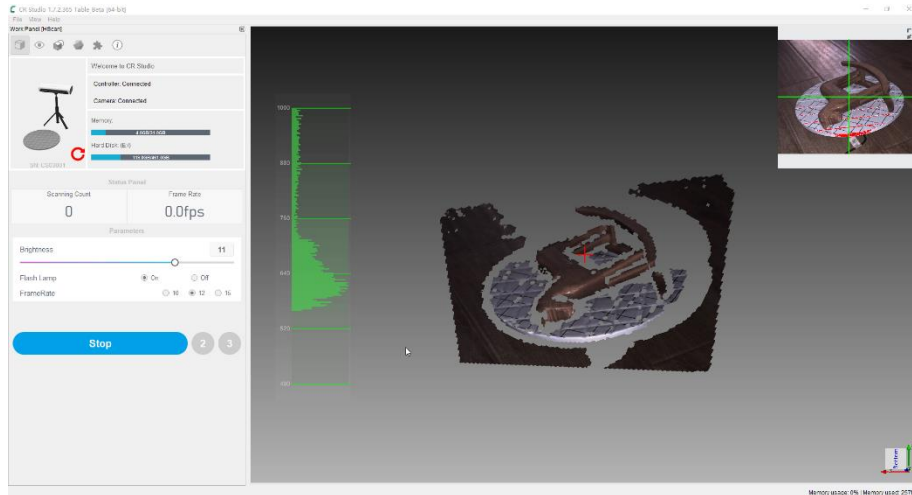
Turntable mode

Turntable mode can fully automatic scanning of objects around 100mm-300mm

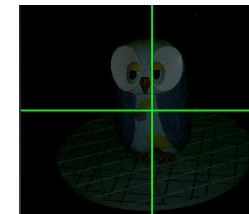


① Adjusting the device view

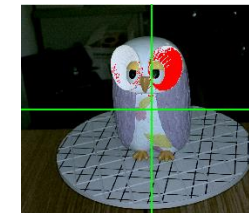
Adjust the distance and angle between the scanner and the turntable so that the object and the turntable are in the center of the 3D view and the object can be completely covered.



Good



Dark



Bright

② Initializing the turntable

Scanning of empty turntable, automatic positioning of turntable plane position

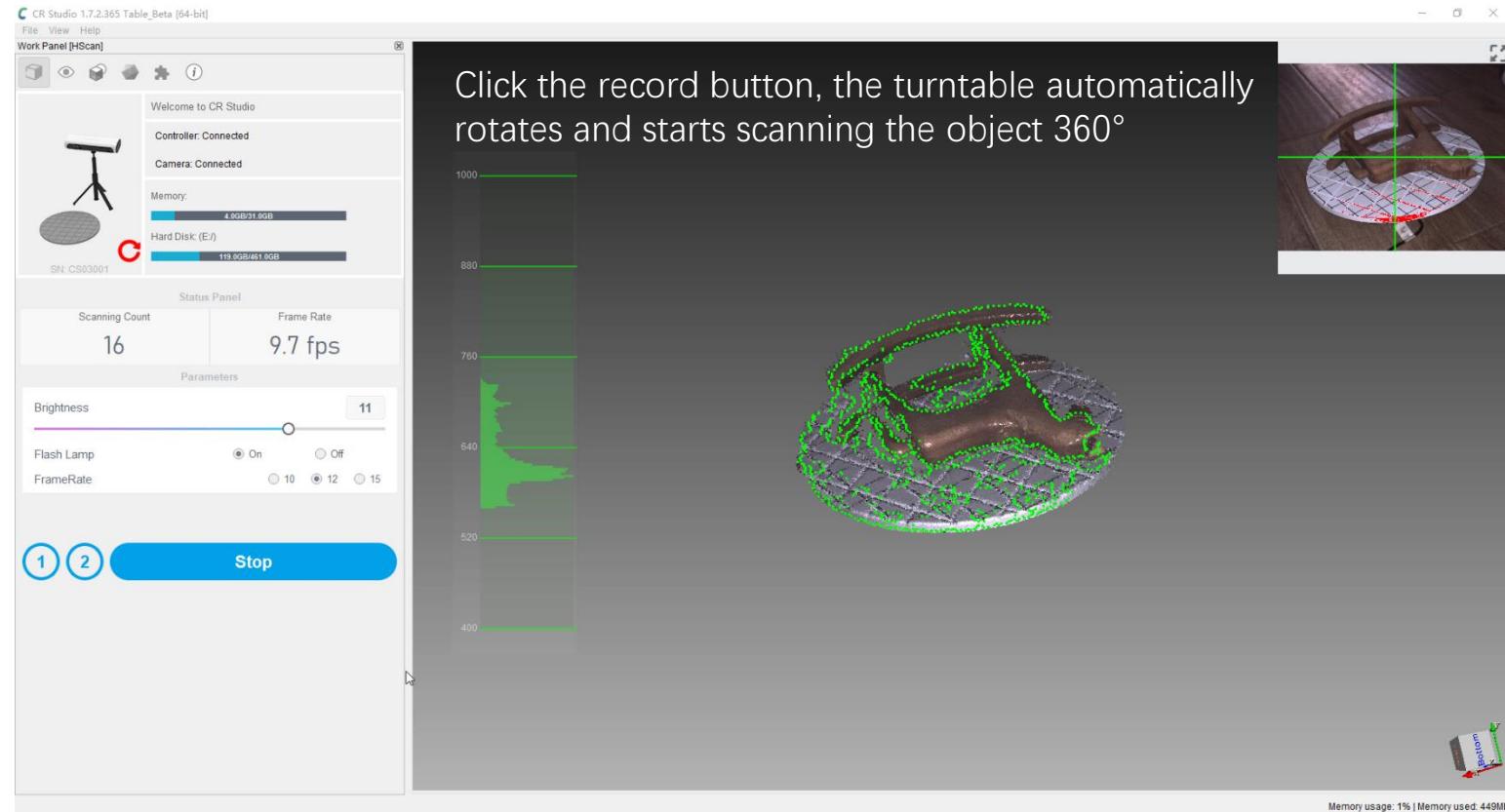
The screenshot displays the CR Studio 1.7.2.365 Table_Beta [64-bit] interface. The left sidebar contains a 'Work Panel [HScan]' with a 'Welcome to CR Studio' message, status indicators for 'Controller: Connected' and 'Camera: Connected', and system information for memory (4.0GB/31.0GB) and hard disk (119.8GB/461.0GB). Below this is a 'Status Panel' showing 'Scanning Count: 0' and 'Frame Rate: 10.3 fps'. The 'Parameters' section includes a 'Brightness' slider set to 11, 'Flash Lamp' set to 'On', and 'FrameRate' options of 10, 12, and 15. A 'Stop' button is visible at the bottom of the sidebar.

The main 3D view shows a turntable with a red mesh overlay, indicating the 'Turntable recognition area'. Text in the 3D view reads 'Turntable recognition area Model turns red'. To the left of the 3D view is a vertical histogram showing a distribution of data points, with a peak around 500. A small inset window in the top right corner shows a top-down view of the turntable with a green crosshair and red lines.

At the bottom right of the interface, a small 'Bottom' panel shows a 3D coordinate system. The system tray at the bottom right indicates 'Memory usage: 1% | Memory used: 373MB'.

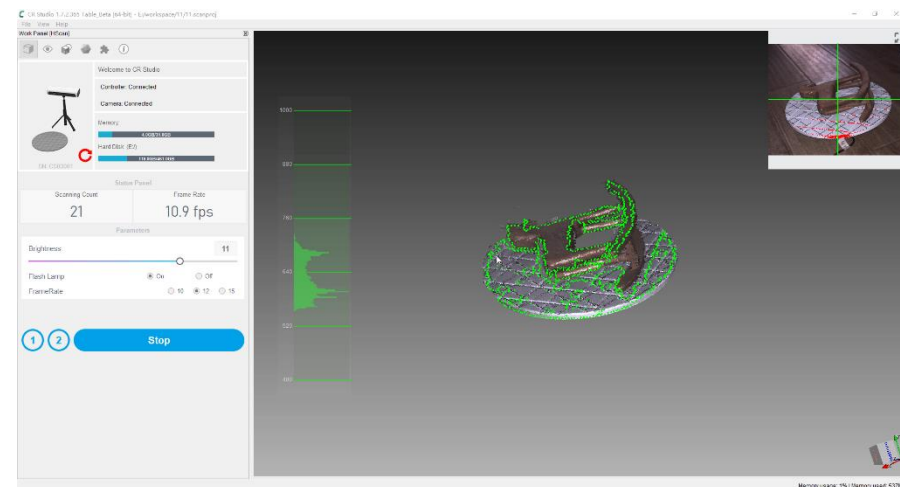
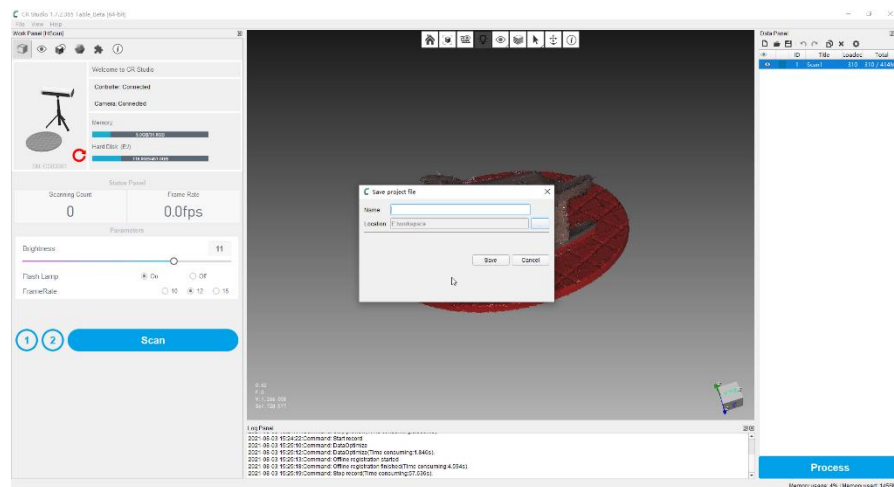
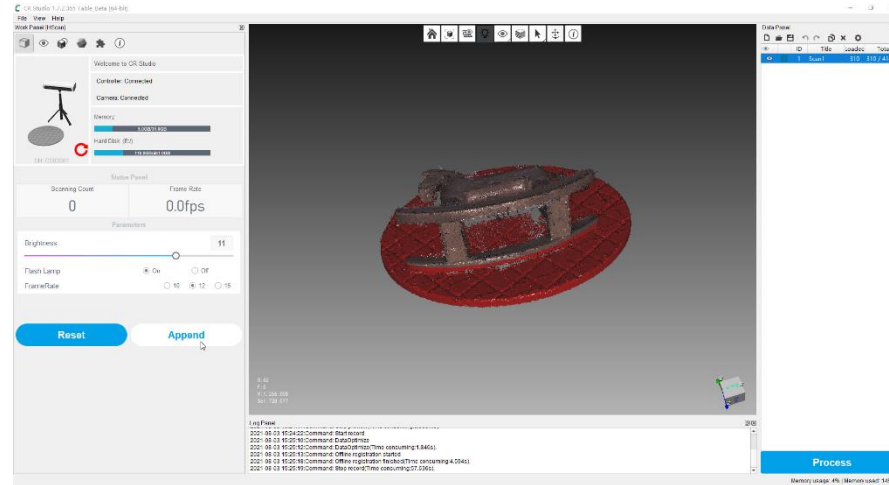
③ Start scanning

The scanned object is placed in the center of the turntable and starts scanning automatically



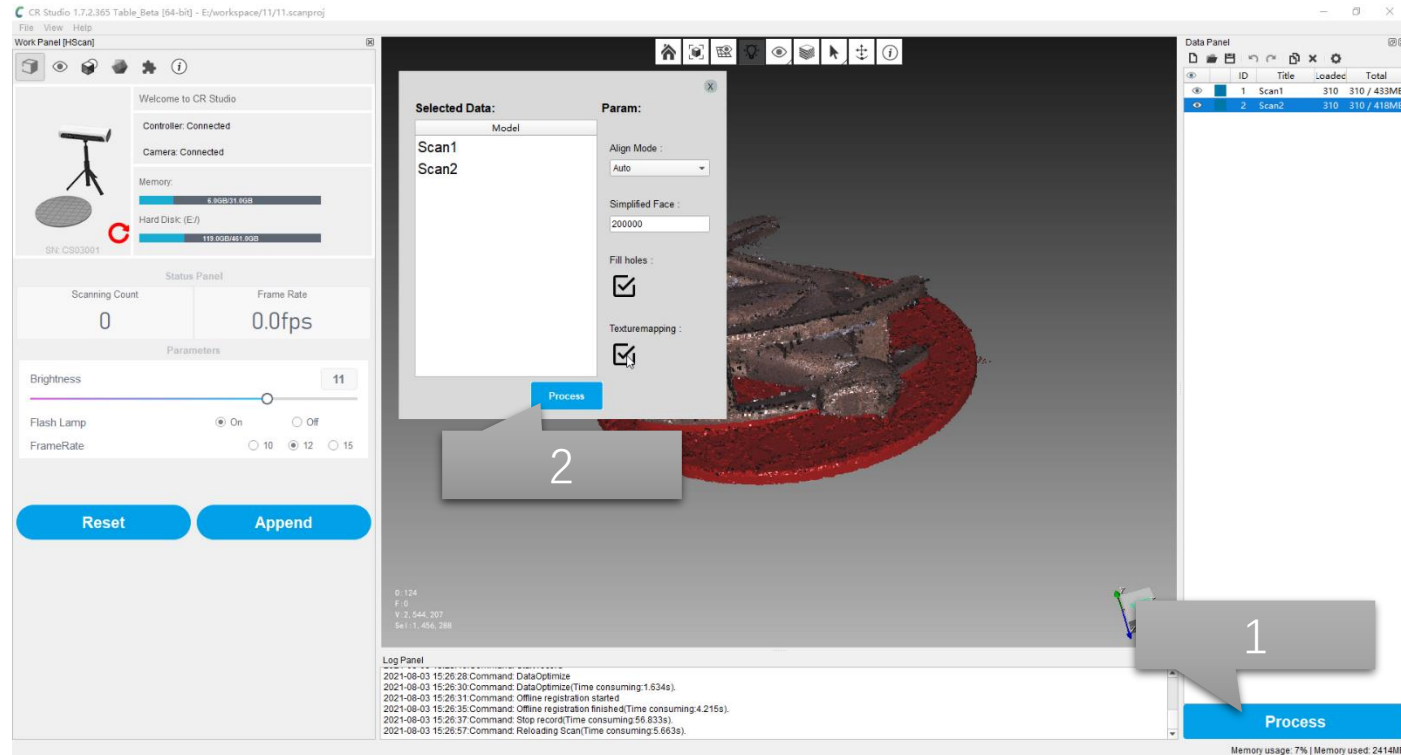
③ Scanning the second posture

Change the attitude of the scanned object and place it in the center of the turntable, click the Append button, and click Scan button, fill in the project name, and start automatic scanning.



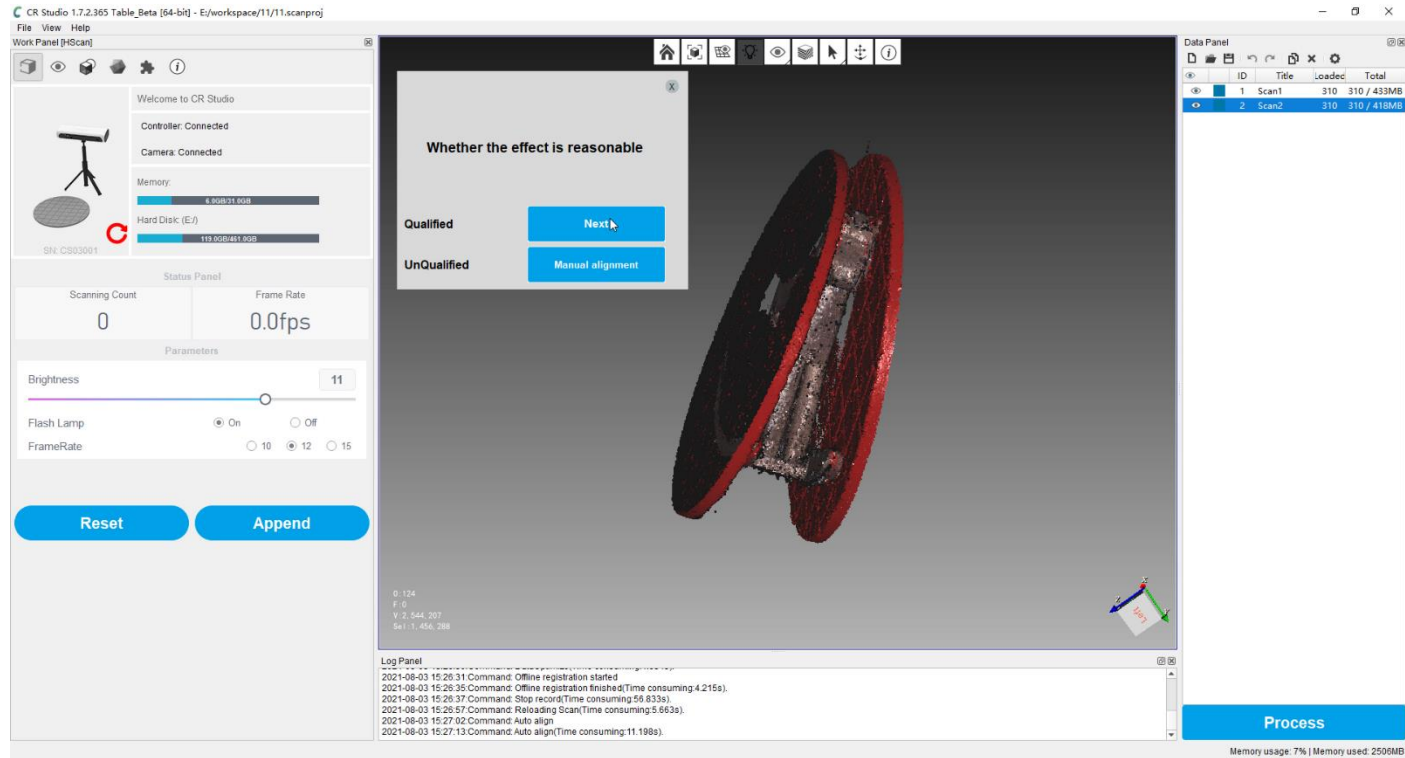
④ Processing data

Select scanned data for automatic processing.



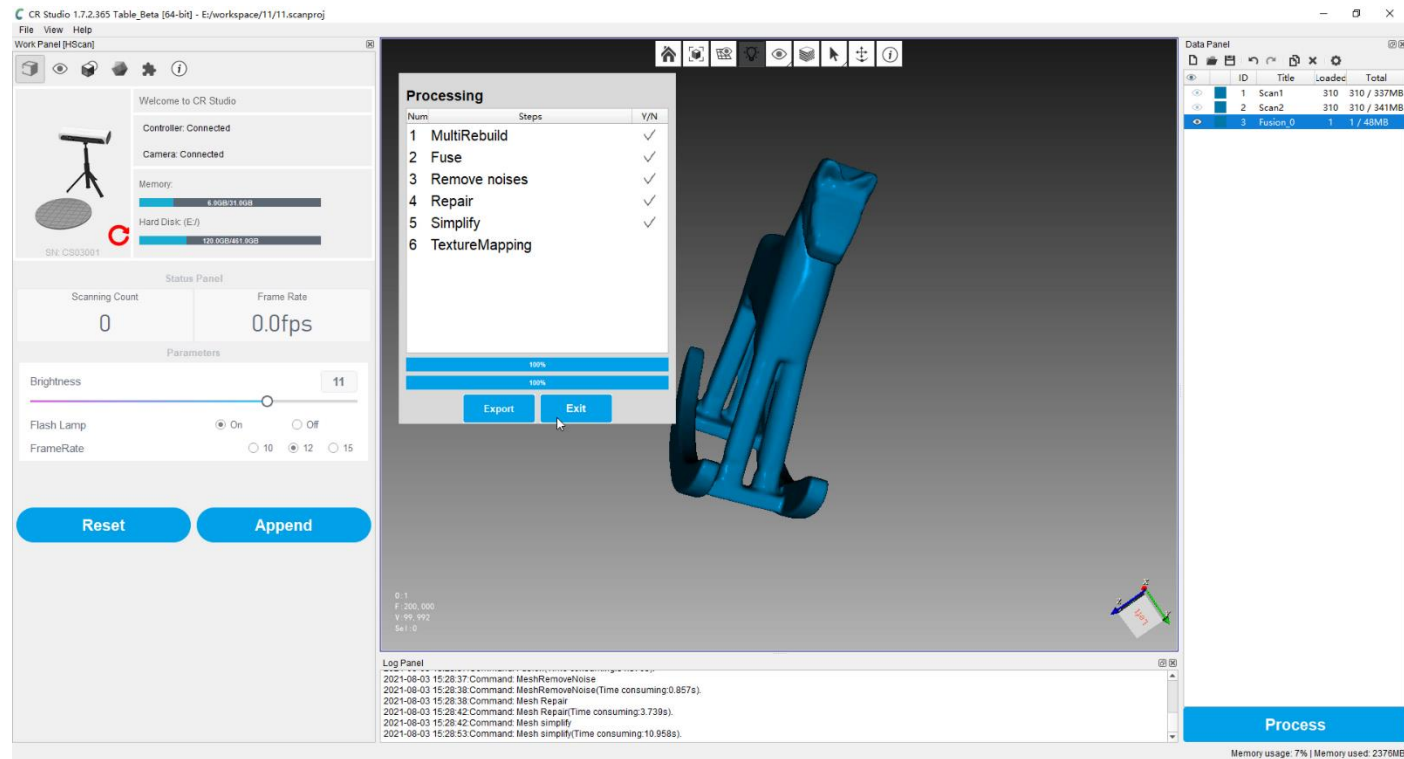
5 Automatic alignment

Check the auto-alignment effect and go to the next step of processing



⑥ Complete processing

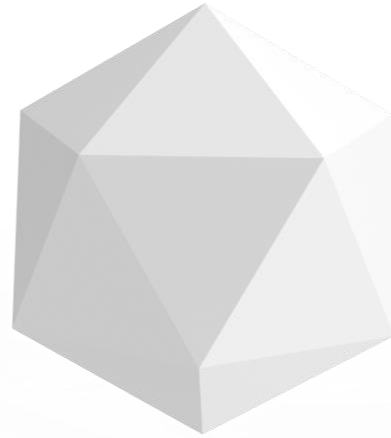
Automatic completion of all model processing and export of results data



The stl format can be imported directly to the 3D printer
The obj format allows you to get a model with textures

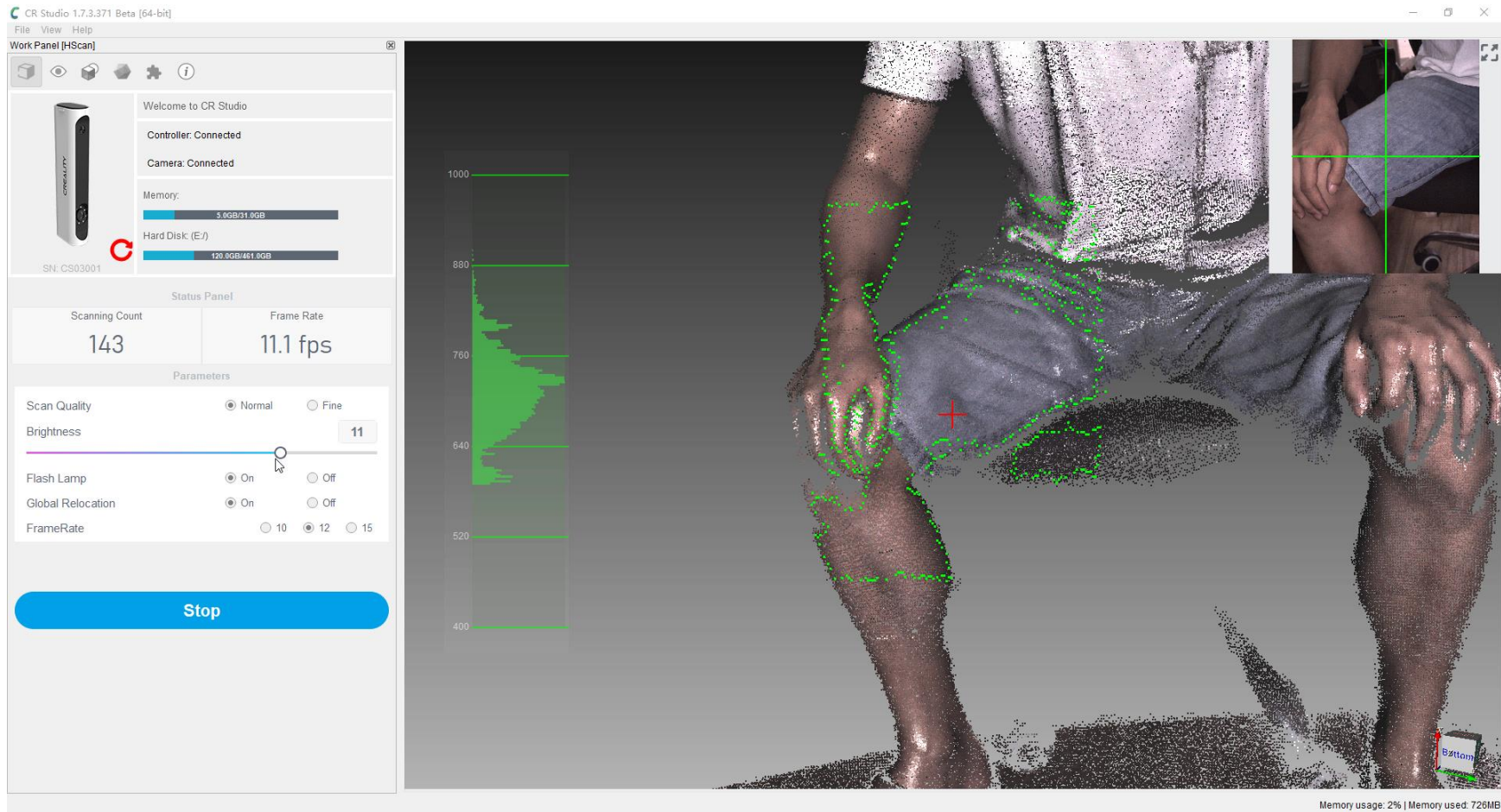
Handheld mode

Handheld mode allows flexible scanning of objects of different sizes



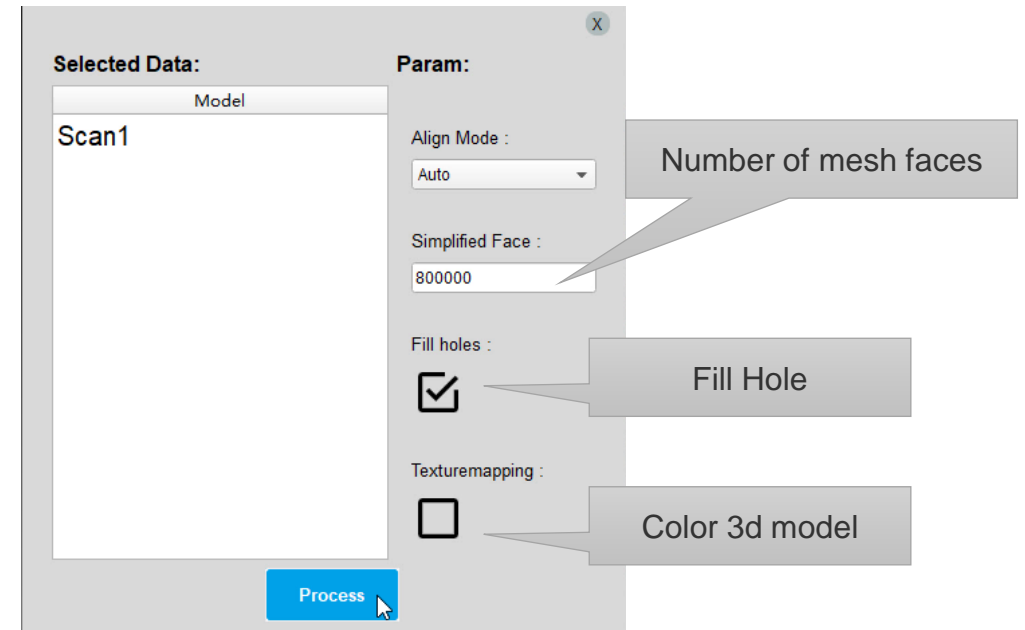
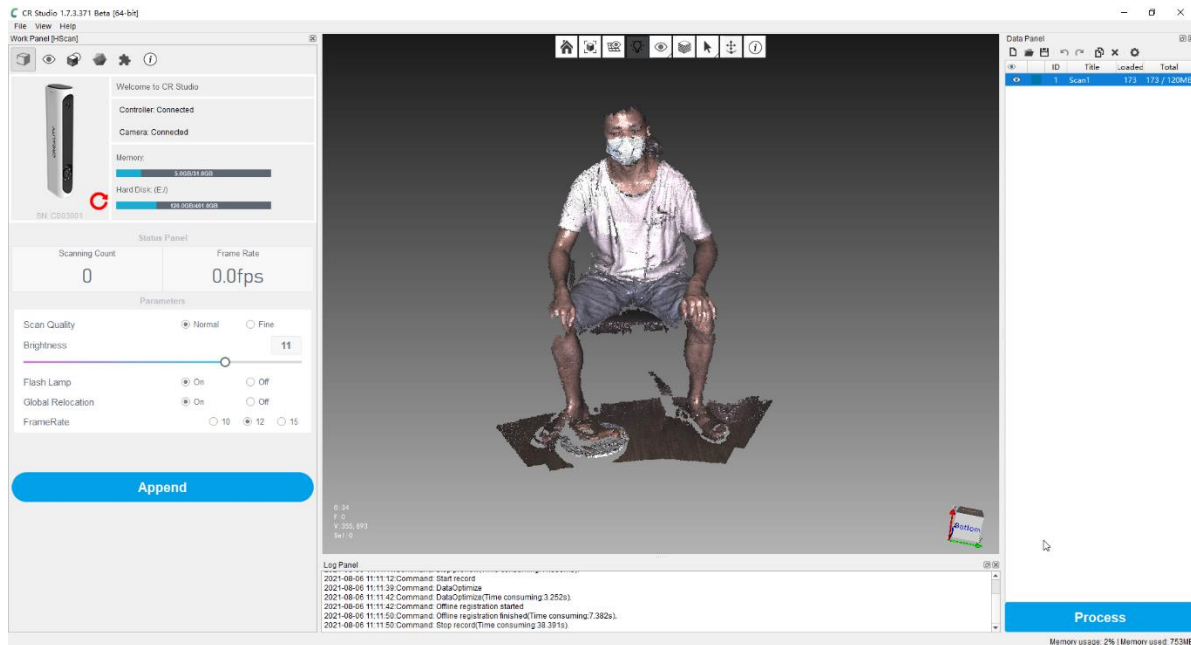
① Start scanning

Align the scanned object, adjust the brightness, and keep the object about 700mm away from the scanner



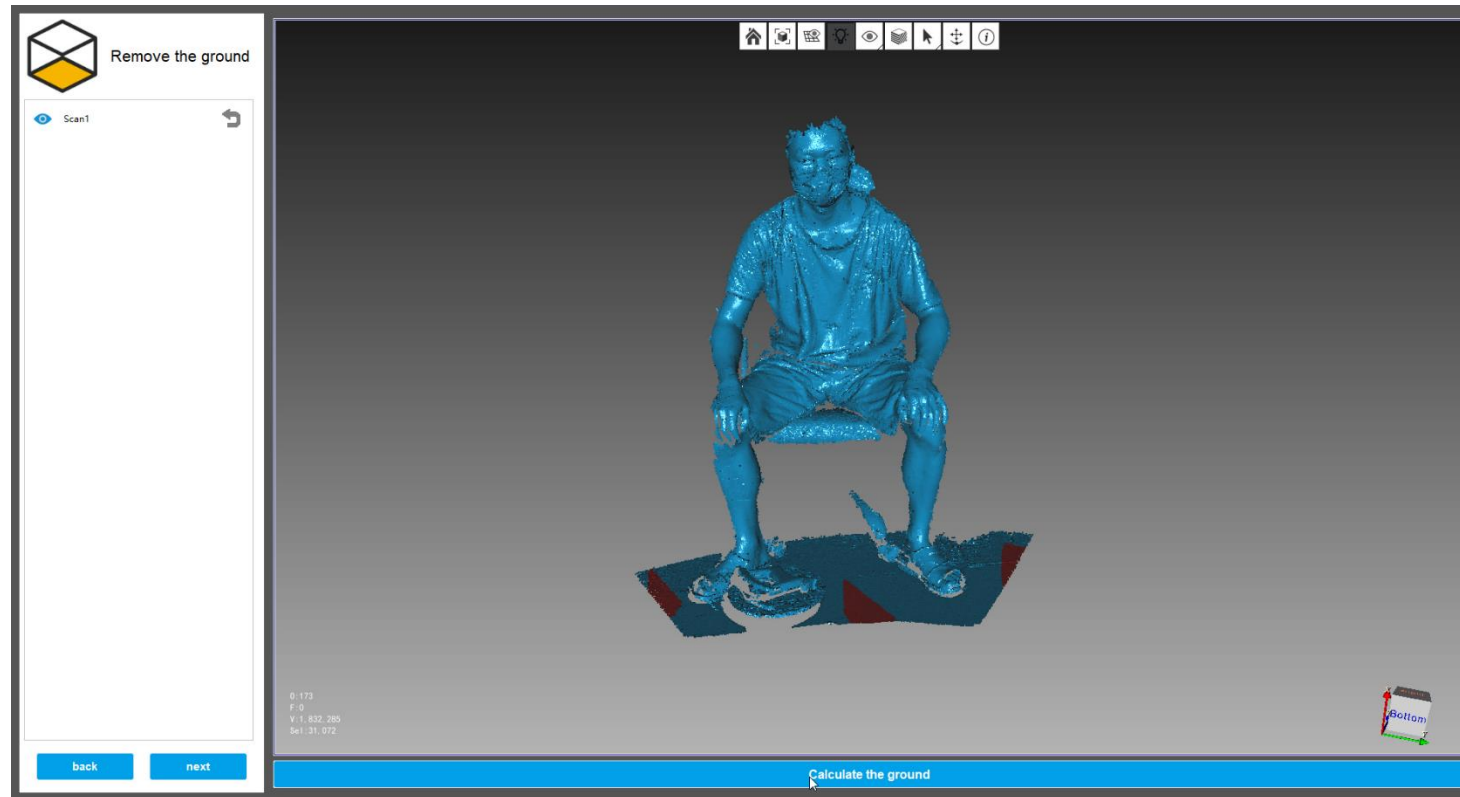
② Finish scanning

After completing the scan, click “Process” button Start fully automatic data processing.



③ Remove base

Semi automatic removal base, Use Ctrl + left mouse button to frame select any 3 base areas, and then click the “calculate the ground” button to calculate the base. At this time, the base turns red. Click “next” button start automatic processing.



④ Automatic data processing

Click the Process button and the data will be processed automatically and textures will be applied.

Click this button to toggle the model to display solid colors or textures



CR Studio 1.7.3.371 Beta [64-bit] - E:/workspace/33/scanproj

File View Help
Work Panel [HScan]

Welcome to CR Studio

Controller: Connected
Camera: Connected

Memory: 4.6GB/31.6GB
Hard Disk (E:): 121.6GB/441.6GB

Status Panel
Scanning Count: 0
Frame Rate: 0.0fps

Parameters
Scan Quality: Normal Fine
Brightness: 11
Flash Lamp: On Off
Global Relocation: On Off
FrameRate: 10 12 15

Append

Processing

Num	Steps	Y/N
1	Fuse	✓
2	Remove noises	
3	Repair	
4	Simplify	
5	TextureMapping	✓

Export Exit

100%
100%

Data Panel

ID	Title	Loaded	Total
1	Scan1	173	119MB
4	Fusion_1	1	83MB
5	Fusion_1_TM	1	384MB

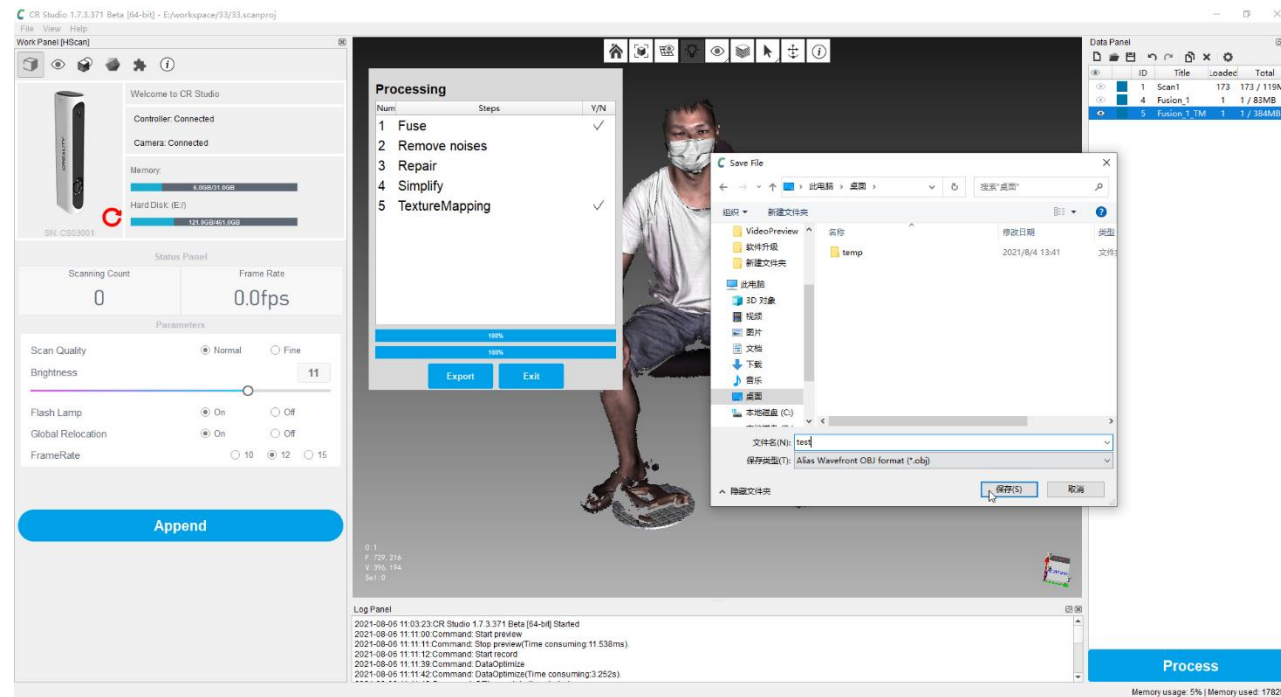
Process

Memory usage: 5% | Memory used: 1781MB

Log Panel
2021-08-06 11:03:23:CR Studio 1.7.3.371 Beta [64-bit] Started
2021-08-06 11:11:00:Command: Start preview
2021-08-06 11:11:11:Command: Stop preview(Time consuming 11.538ms)
2021-08-06 11:11:12:Command: Start record
2021-08-06 11:11:39:Command: DataOptimize
2021-08-06 11:11:42:Command: DataOptimize(Time consuming 3.252s)

8 Data Export

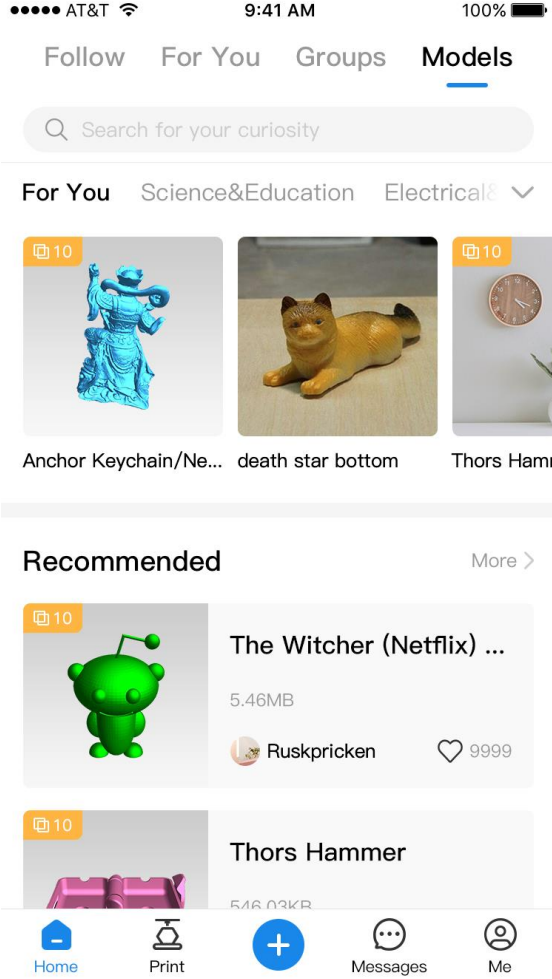
After the automatic processing is completed, click the Export button to export the model data to the specified path.



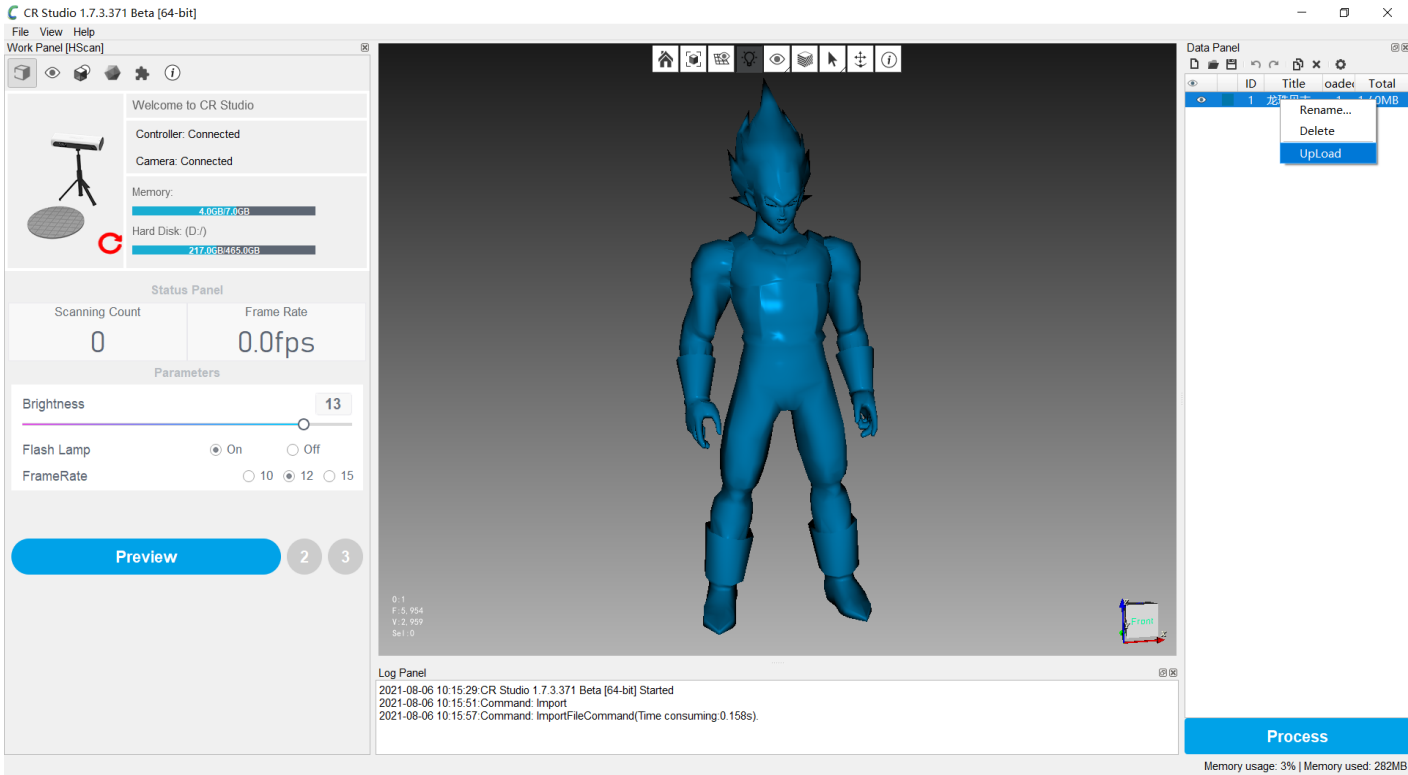
The stl format can be imported directly to the 3D printer
The obj format allows you to get a model with textures

Data upload

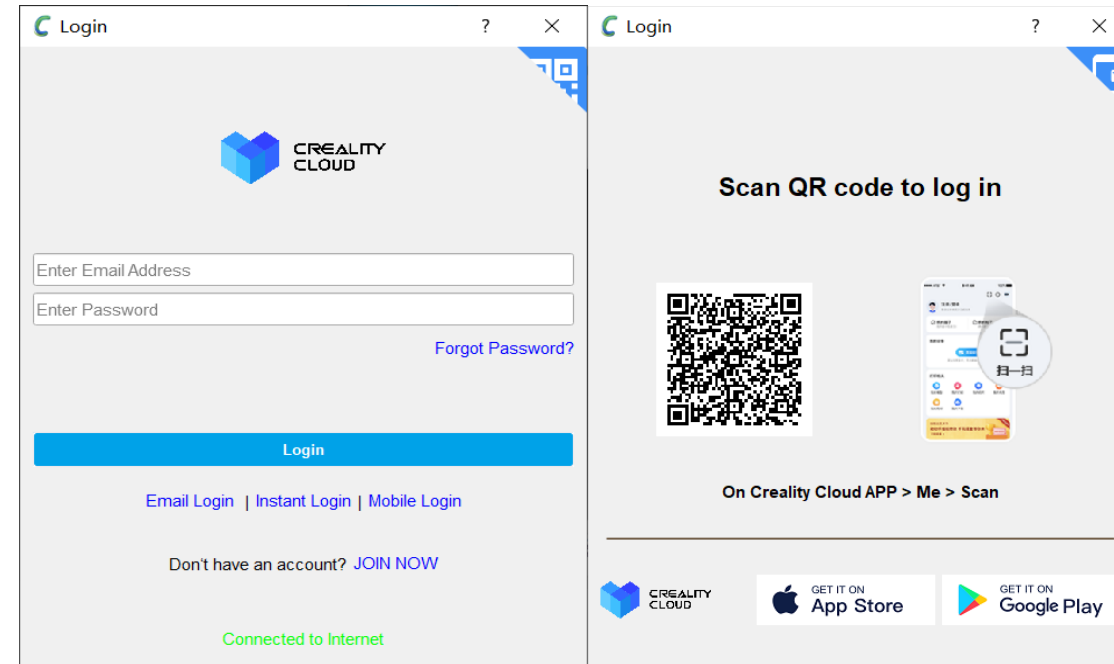
The scanned data can be uploaded to the creality cloud with one click



Select the data to be uploaded from the project list and right-click the upload option menu.



If not logged in, please log in first. Multiple ways to log in and please remember to add the country code before the user name.



Enter the model group information and click the upload button to upload the data.

Upload

Model *

Model Source *

Original Non-original

Copyright * ?


Name *

Category *

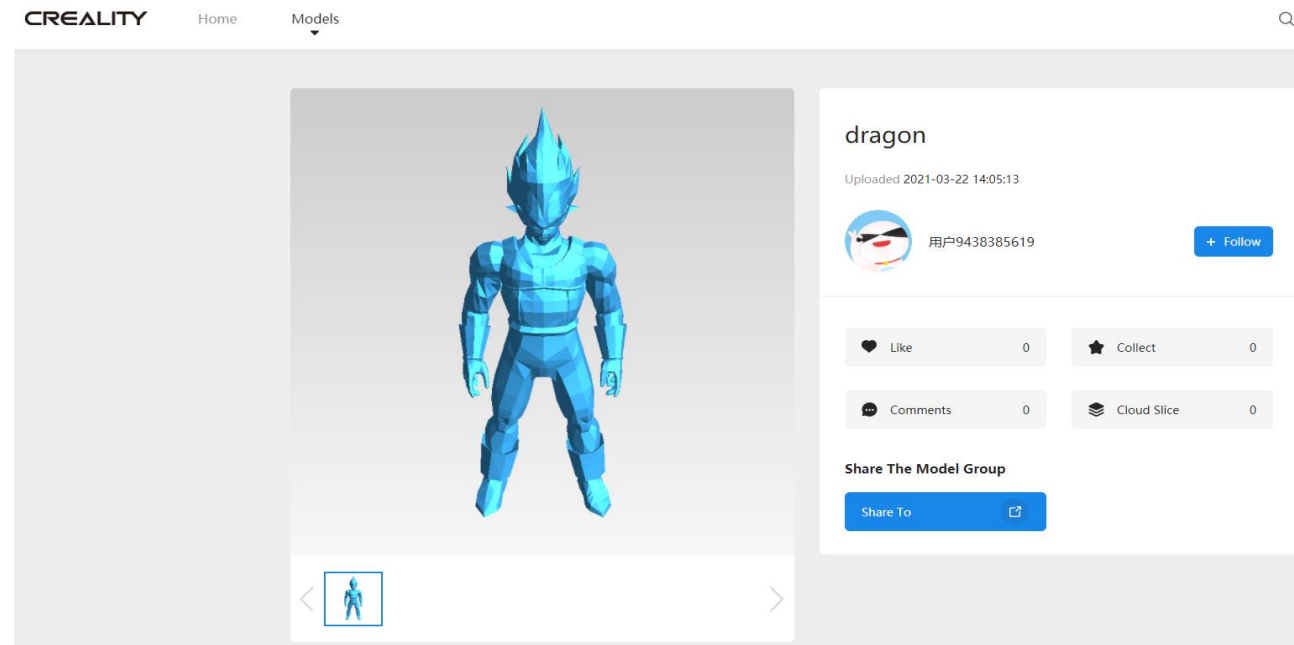
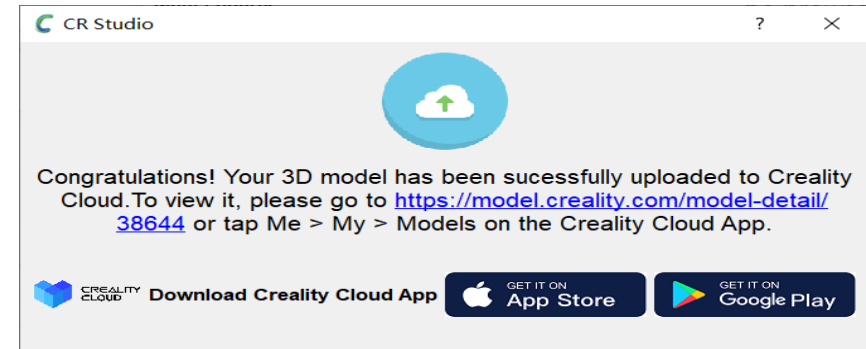
Share *

Open Close

Description



After uploading, you can copy the link and connect it to the browser to preview the upload model.



CREALITY