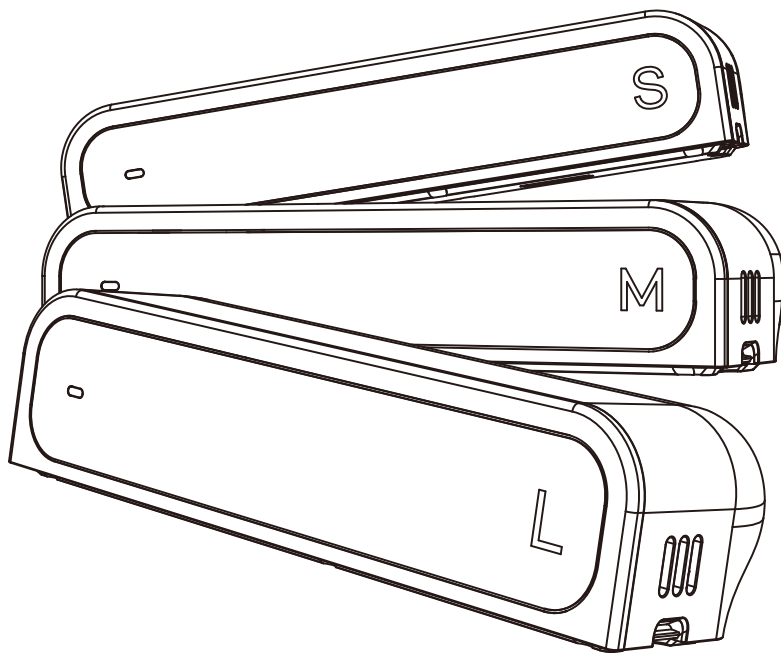


MANUAL

V1.0

3DMAKERPRO

store.3dmakerpro.com



Turtle Series

3DMAKERPRO

f @3DMakerProCares
@official3DMakerPro
@3DMakerPro
https://store.3dmakerpro.com/
service@3dmakerpro.com

JimuMeta

f @JimuMeta
@JimuMeta
https://www.jimumeta.com/
service@jimumeta.com



Software

JMStudio

Supported OS

Windows | MAC
Android | iOS

When using the Control Pad

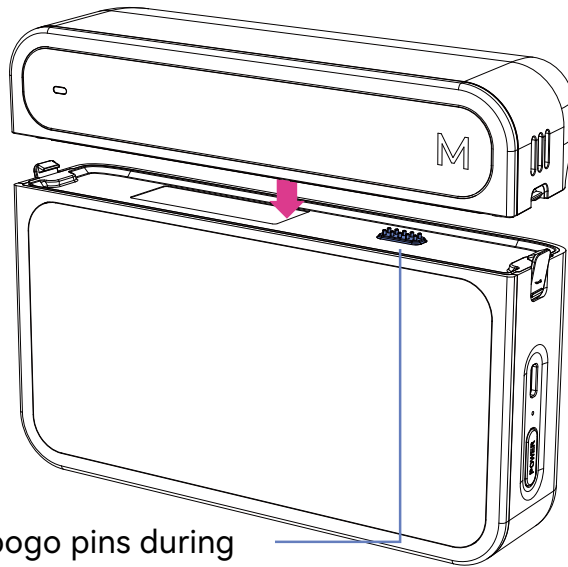
P2 Hardware Assembly

This product is available in a variety of specifications and assembly configurations, which can be assembled and used according to your actual application requirements.

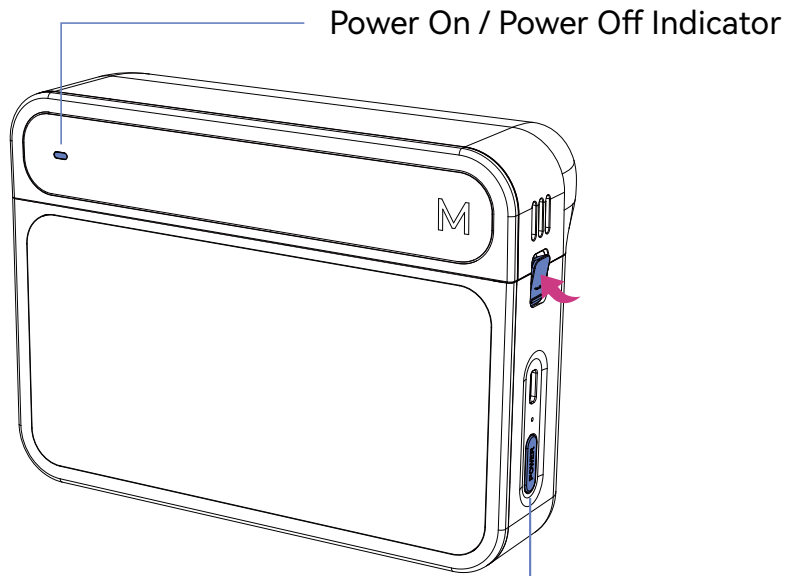
*All installation procedures are demonstrated with the M Module as an example.

Module & Control Pad Installation

①The module will automatically attach to the base via magnetic attraction, then fasten the latches on both sides.

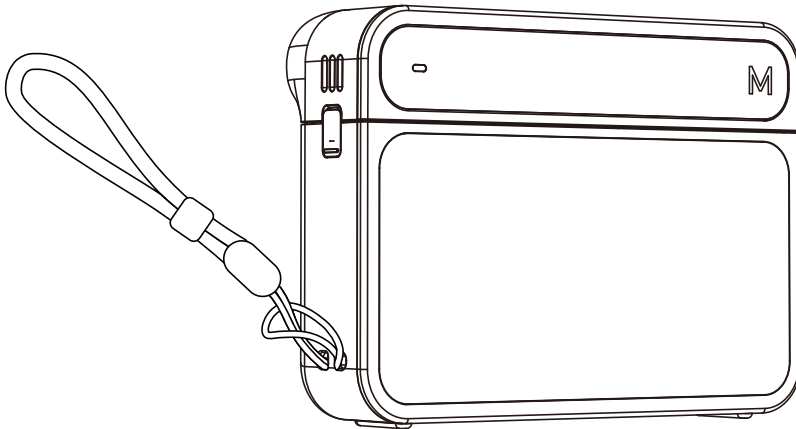


Note: Protect the pogo pins during operation.



- Press and hold for 2s: Power on the device
- Press and hold for 6s: Power off the device

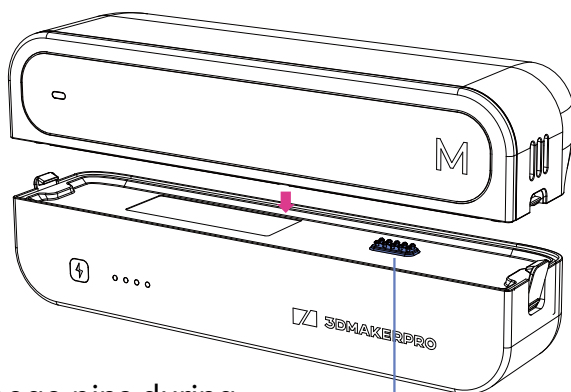
② Attach one end of the lanyard to the scanner and wear the other end on your wrist to prevent equipment damage caused by accidental dropping.



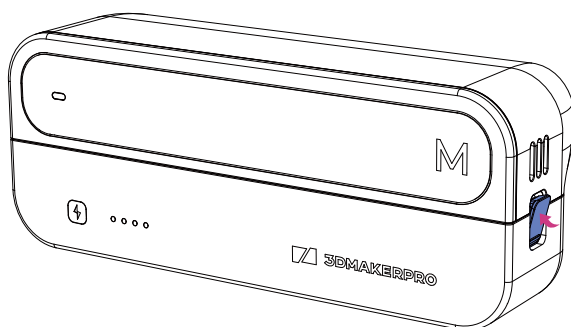
Connect Main Unit after Installing Module and Base

After connection, all scanned data will be stored in the Control Pad (the base has no storage function). Data export shall follow the same operation procedure as assembling the module and Control Pad.

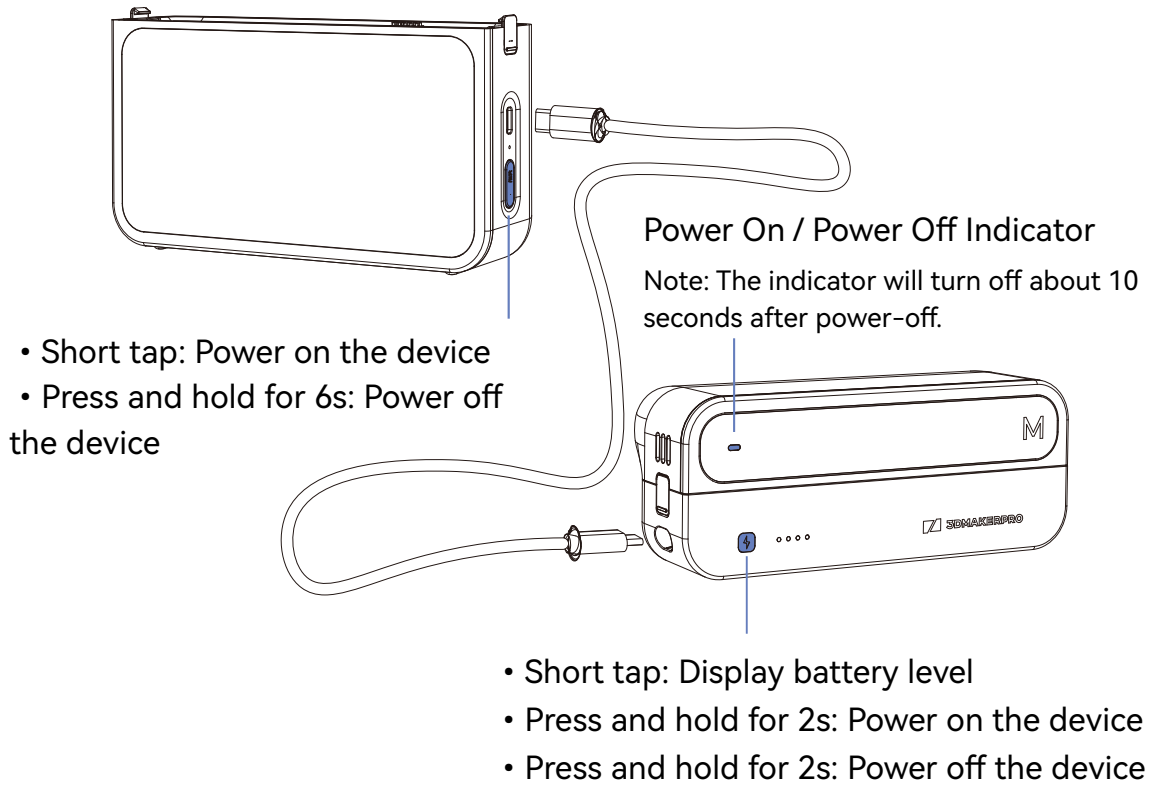
①The module automatically attaches to the base via magnetic attraction, then fasten the latches on both sides.



Note: Protect the pogo pins during operation.



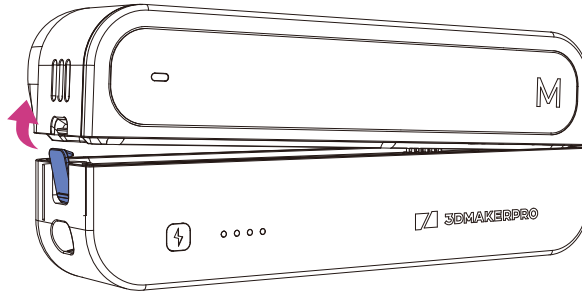
②Connect one end of the cable to the base, and the other end to the main unit.



Detach

Unlock the latch on one side of the device and lift the module upward.

*The Control Pad and the base share the same detachment method; only the detachment of M Module and base is shown as an example.

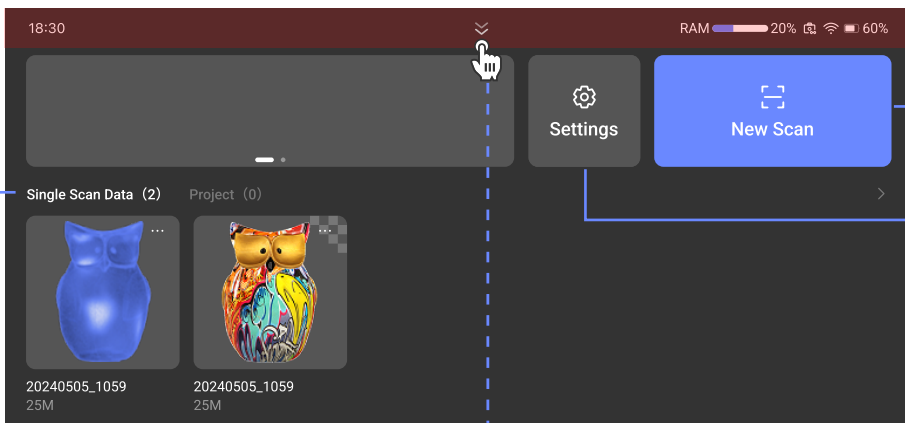


P7 Homepage

① Press the button at the bottom of the device to turn it on.



② On the homepage, you can create new projects, view the project list, and more. Swipe down from the top of the screen to access the control center.

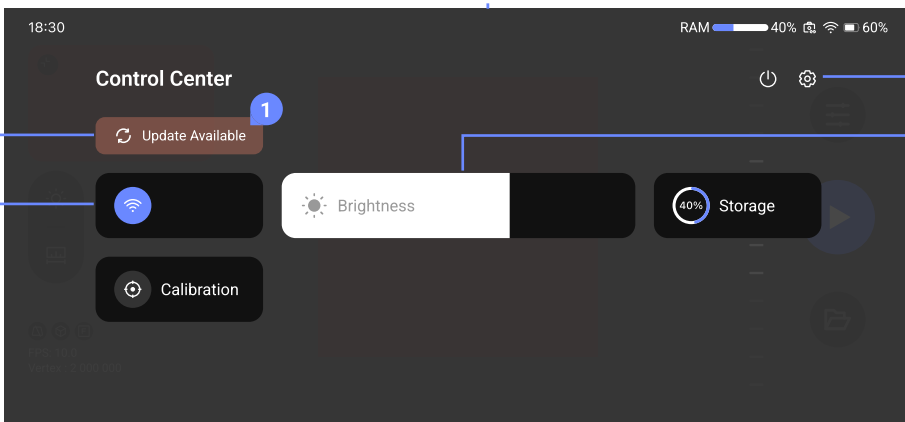


Project List

You can package individual scanned files into project files.

Settings

New Scan

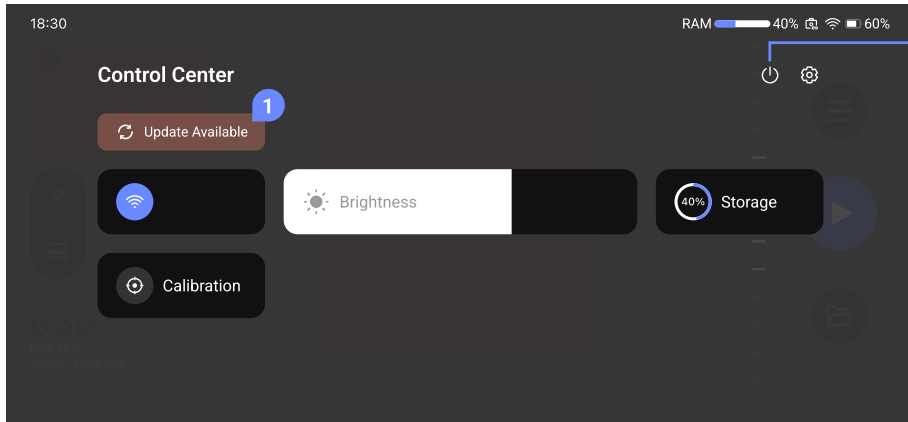


Click to turn WiFi on/off

Interface brightness adjustment

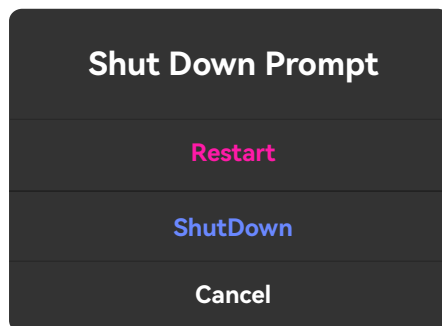
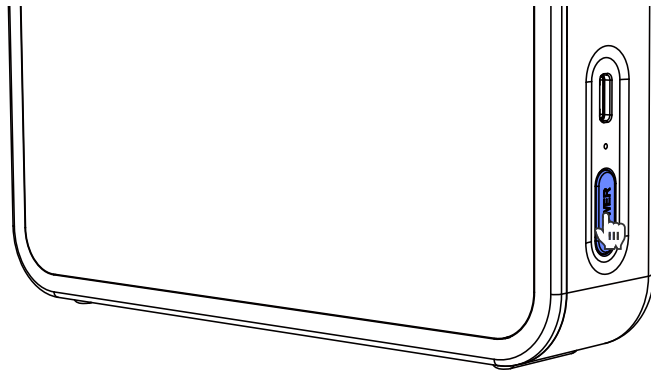
When there is an available update, a reminder notification will appear in the top-right corner.

Settings



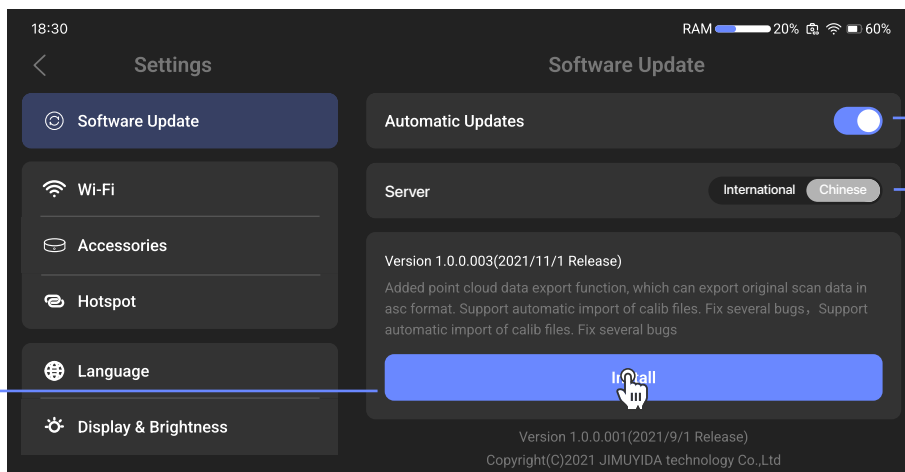
restart & shut down

*Press the power button at the bottom of the device to choose restart or shutdown, or long-press for 6 seconds to force the device to shut down.



P9 Settings

Software Update

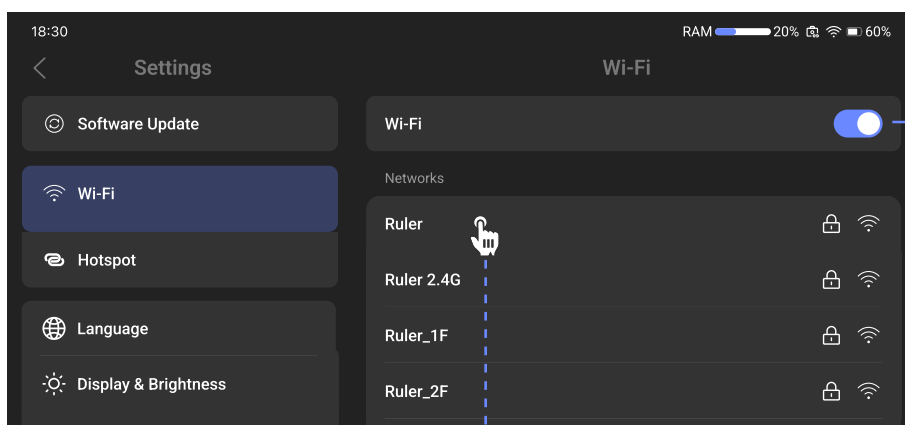


Select the server address to download

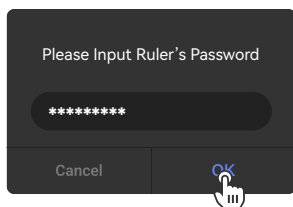
Enable to automatically download the update installation package.

Tap 'Install' to install the downloaded installation package. The system will automatically restart after completing installation.

WiFi

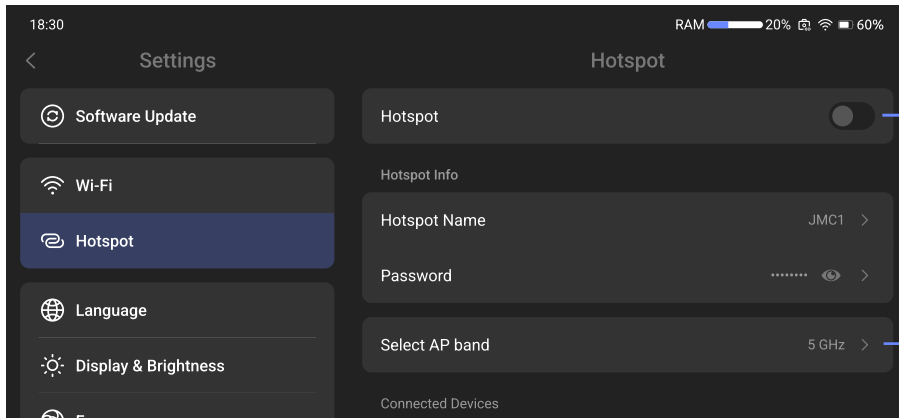


Click to turn WiFi on/off



*When transferring data to a PC, Turtle and the PC need to be connected to the same Wifi network.

Hotspot



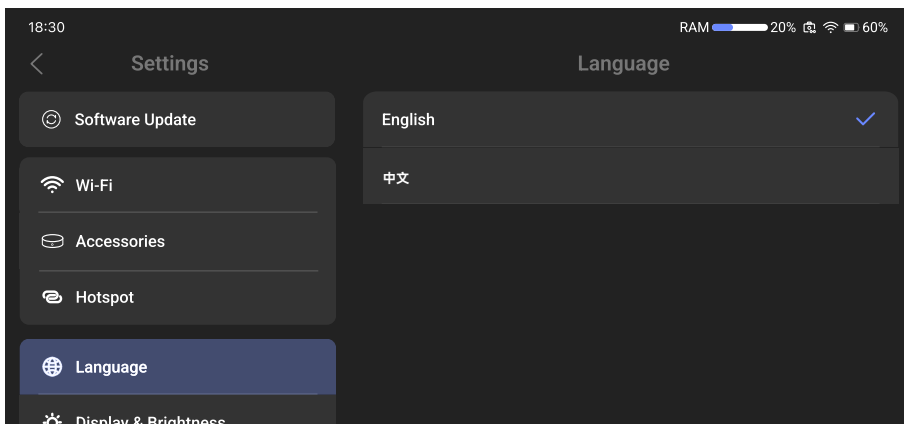
Select AP Band

5GHz: Faster transmission speed with less signal interference, but weak wall penetration. Ideal for direct short-range connection with computers to transfer large scanned files.

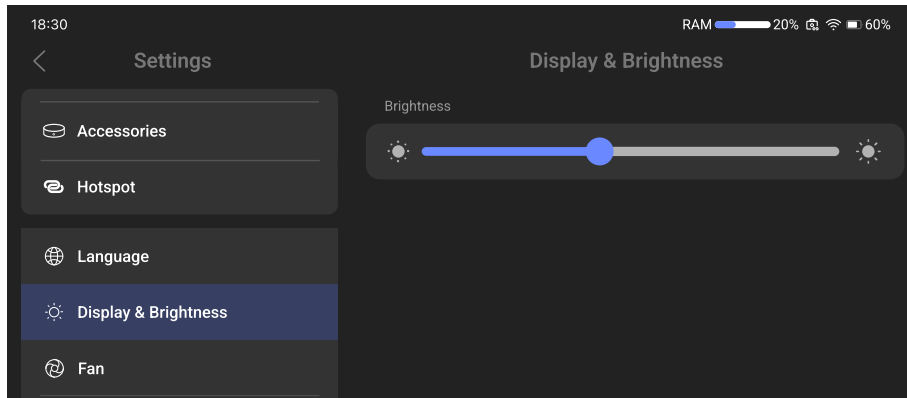
2.4GHz: Strong wall penetration capability yet slower transmission speed. Suitable for remote operation via mobile phones.

Turn on the device hotspot. The default hotspot name is JMC1, and the password is 12345678. Click to modify.

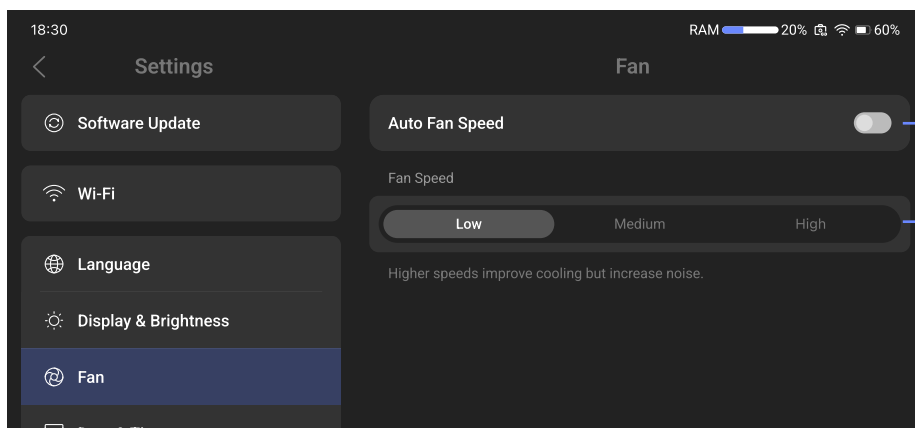
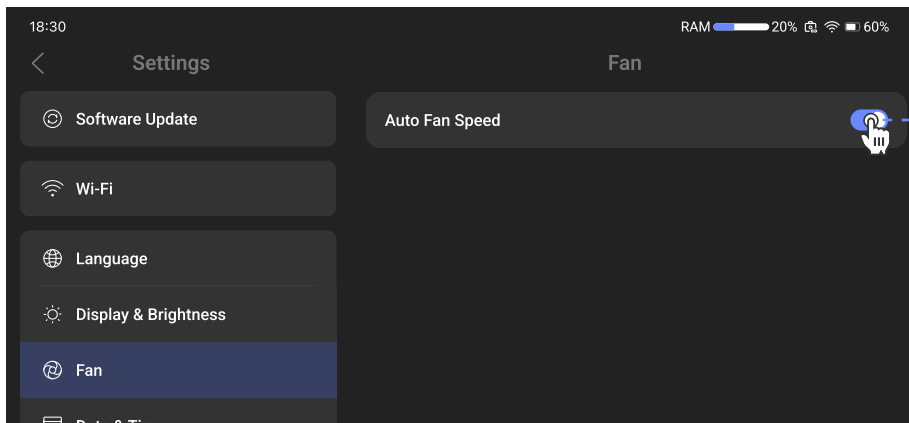
Language



Display & Brightness



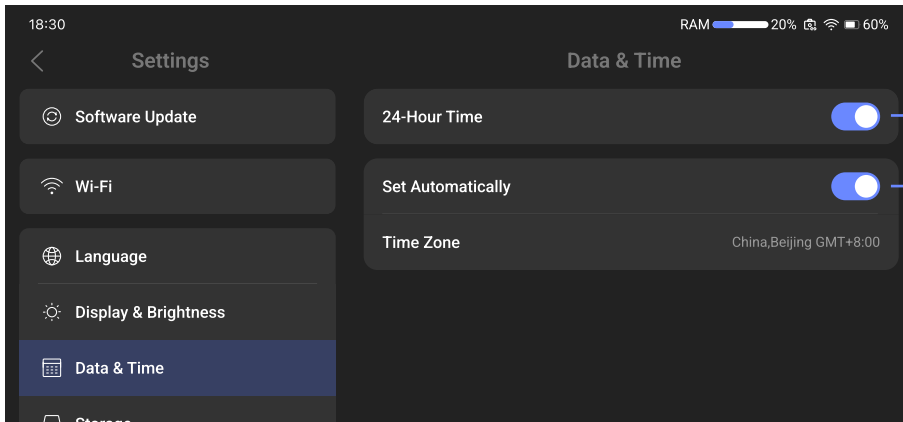
Fan



Adjust the fan speed: the higher the speed, the better the device cooling, but the louder the noise.

When this toggle is enabled, the fan speed will be automatically adjusted according to the device temperature. When disabled, you may manually select and lock a fixed fan speed level.

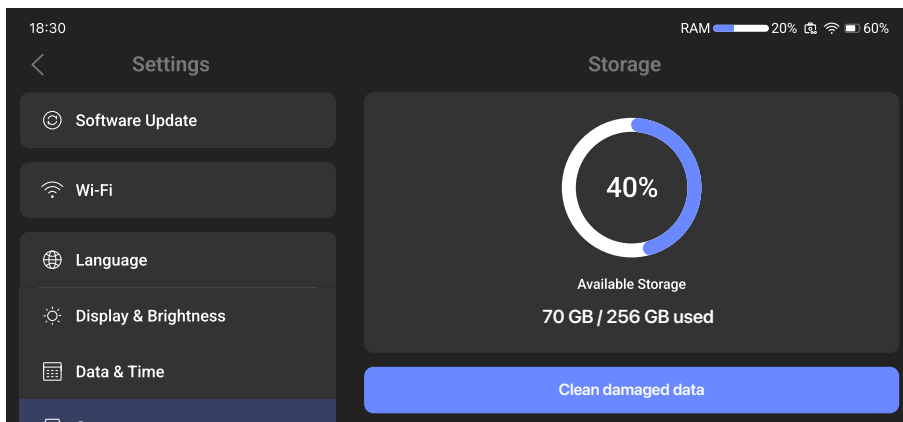
Date & Time



Enable to let Turtle automatically adjust the time zone based on the current location; Once it's disabled, you need to select it manually.

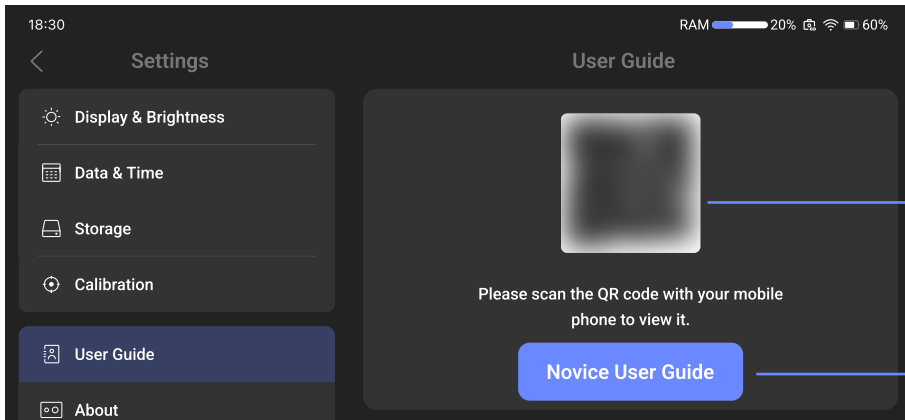
Enable to let Turtle use a 24-hour format for the time shown in the menu bar; Once it's disabled, it'll use a 24-hour format.

Storage



Clear invalid data

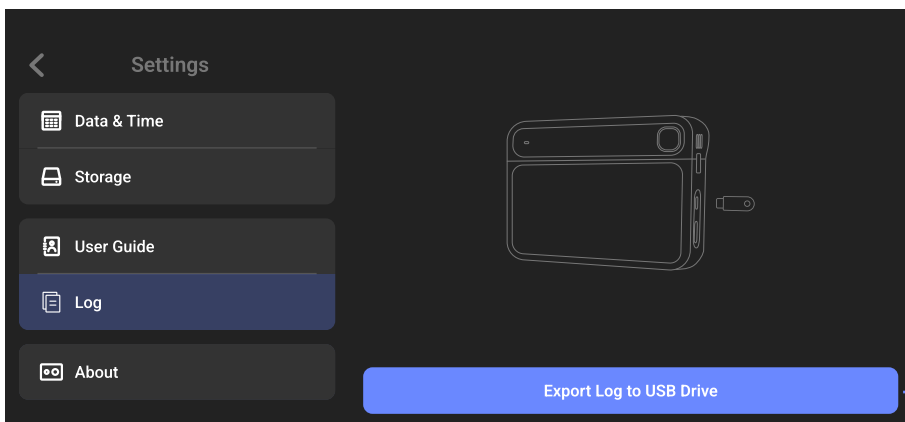
User Guide



Click to enter the beginner's guide and get a simple understanding of how to use the device interface.

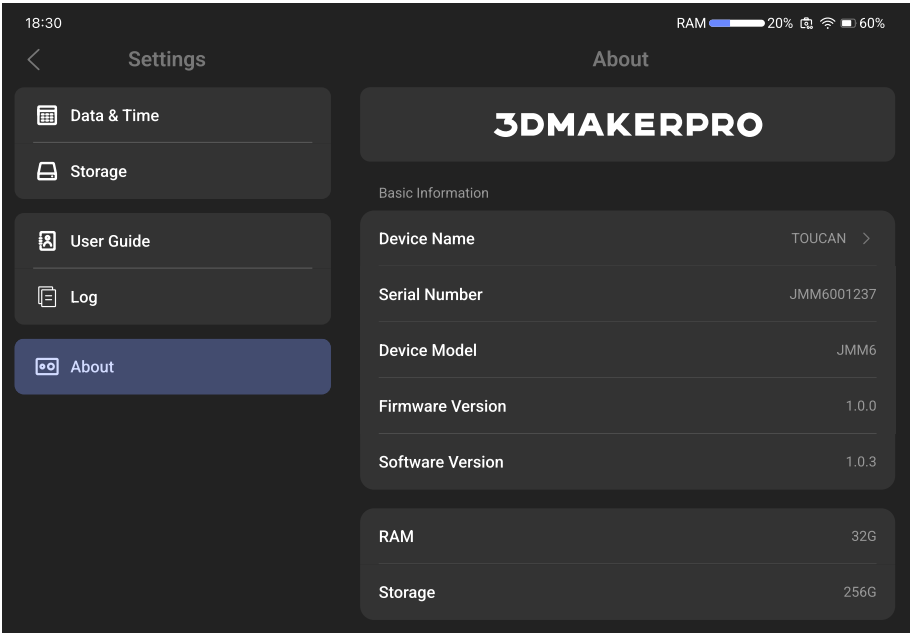
Scan the QR code to view the latest operating manual.

Log



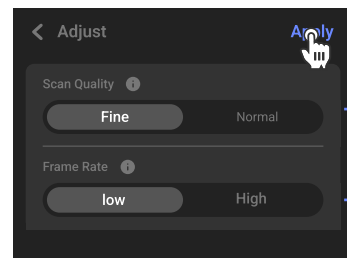
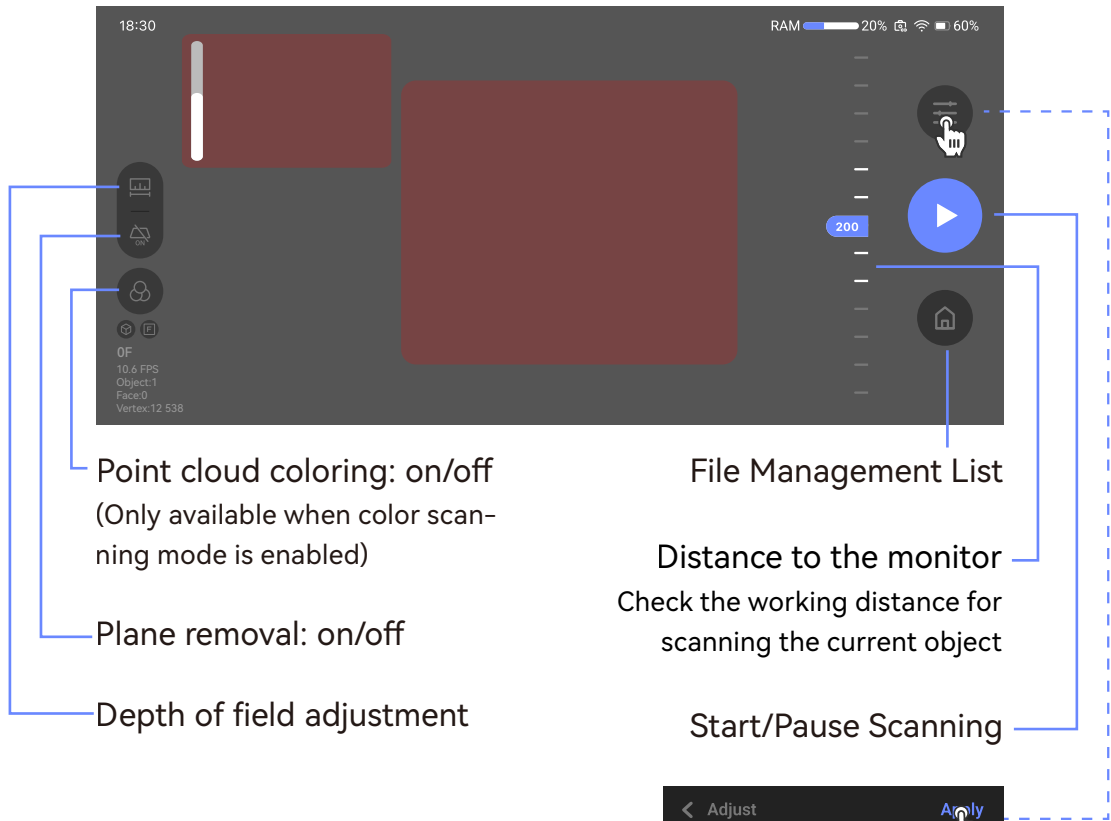
After inserting the USB drive, it supports exporting the current device's log information, making it convenient to contact after-sales engineers to quickly locate device issues.

About



P15 Preparation before scanning

Adjust the scan settings in the scan preview interface



High: Faster data capture, compatible with rapid handheld scanning, higher hardware performance demand.

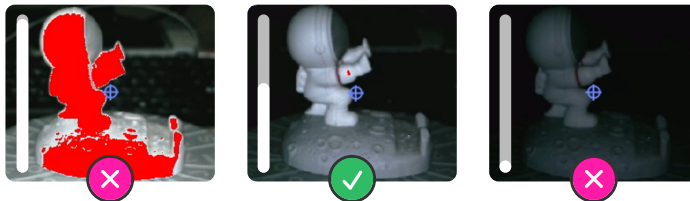
Low: Lower device load and heat generation, suitable for slow and steady scanning.

When scanning intricate objects, select "Fine" mode to capture more detailed geometric information of the subject.

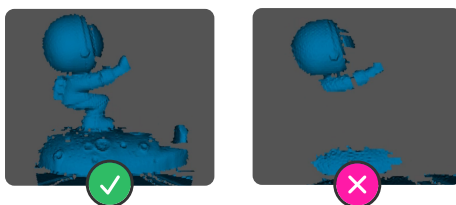


Texture camera, used to capture texture images of the model, displaying the model's original colors. The texture images will be used in texture mapping.

You can adjust the brightness with the slider tool on the left side of the window. If it is too dark or overexposed (overexposure is shown in red), it will affect the effect of texture mapping. An example is shown below:



3D viewer, to view the collected point cloud or mesh model

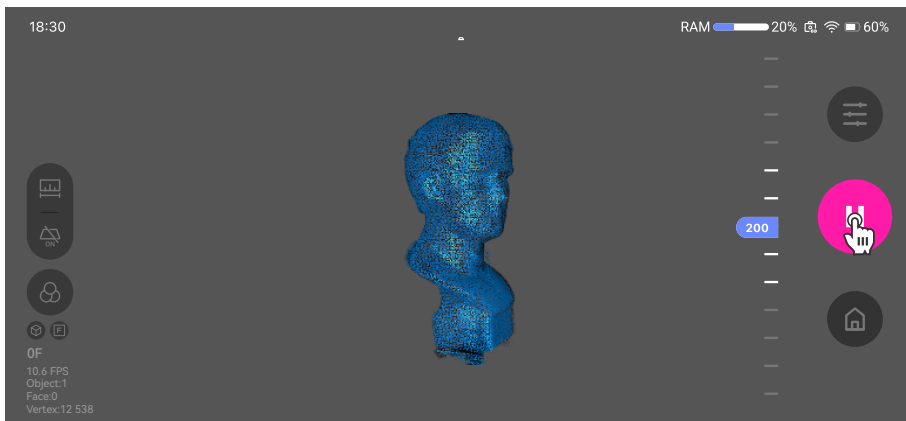


P17 Scan

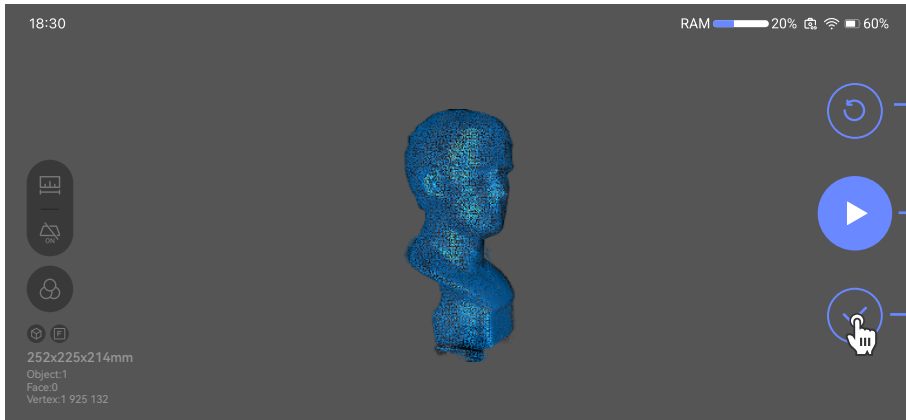
① Click to start scanning



② After the scan is complete, tap to pause the scan.



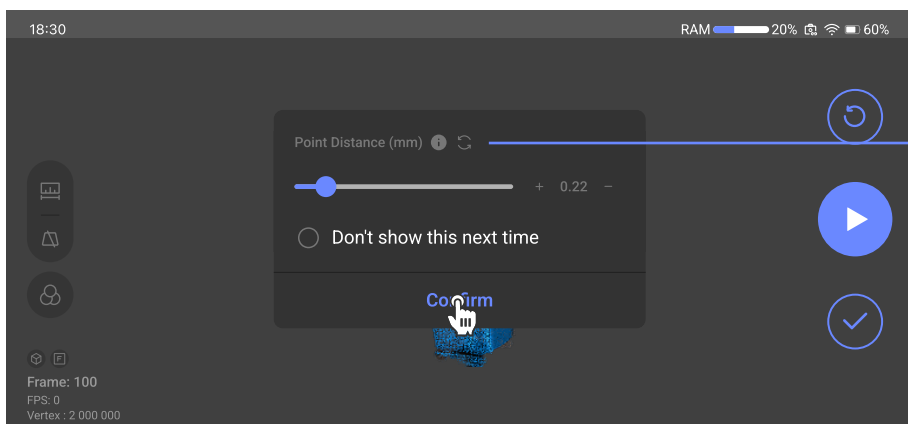
③ You can swipe to rotate or use two fingers to zoom the model to observe the current scan. It supports continuing the scan or rescanning. After the scan is complete, click confirm to automatically perform offline stitching, which will optimize the model as a whole.



Confirm the current scan results and proceed with global registration optimization

If the scan is incomplete, continue scanning the current object

Clear the data that has been collected and return to preview mode to start collection again.

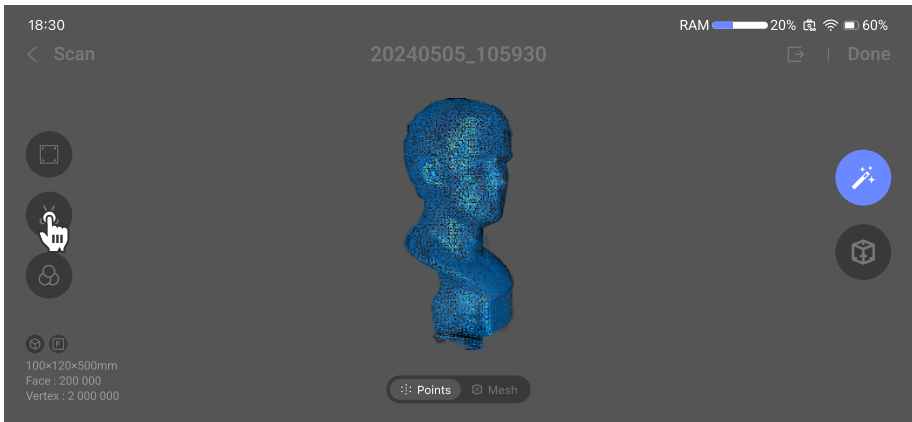


The smaller the value, the denser the point cloud and the more points there are.

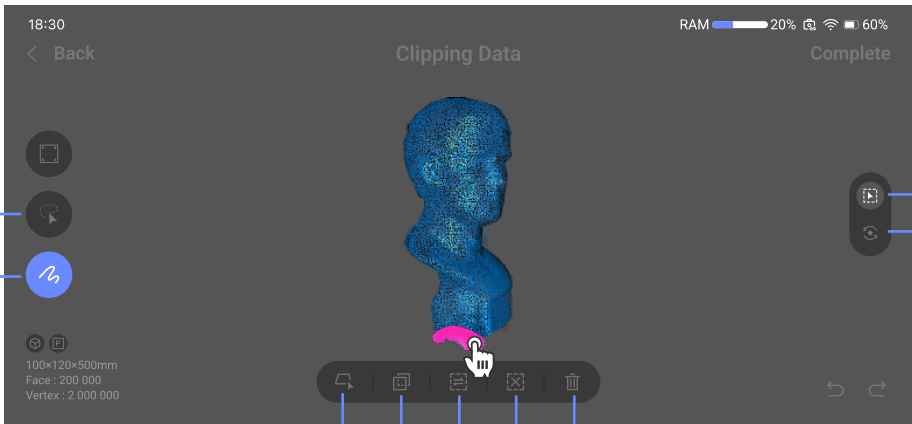
P19 Clipping

Clip the data according to your needs.

① Tap to enter the clipping interface



② Start the data clipping



Plane Selection

Connectivity Selection
(displayed in grid mode)

Reverse Selection

Brush

After selecting the brush, you can set the brush thickness, then drag it over the model to make a selection.

Lasso

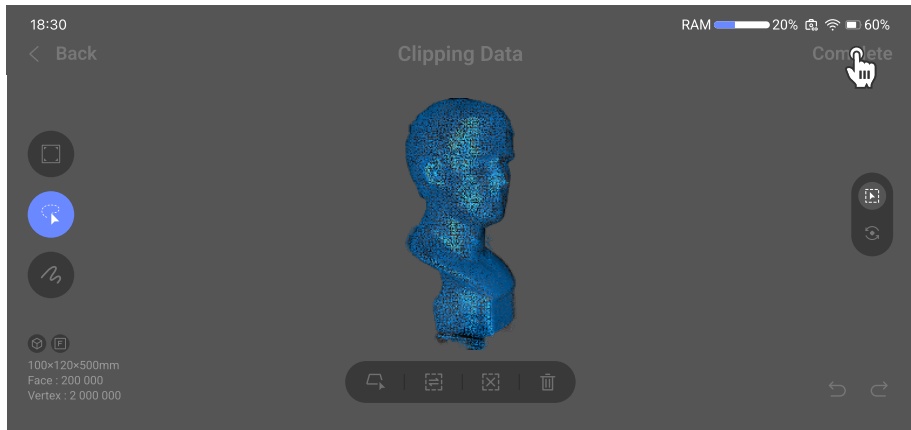
Delete Selection

Clear Selection

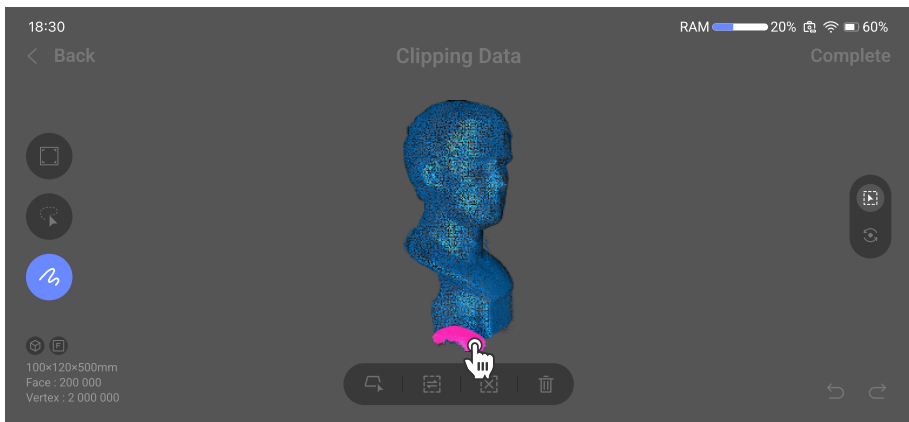
Rotate Tool

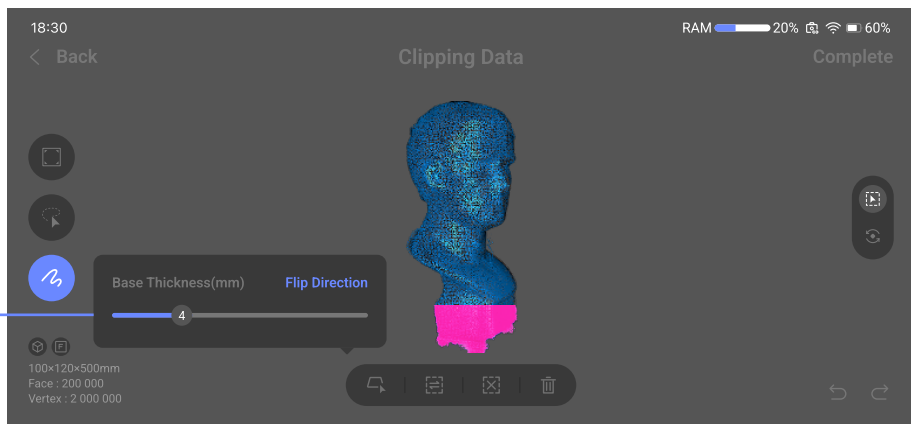
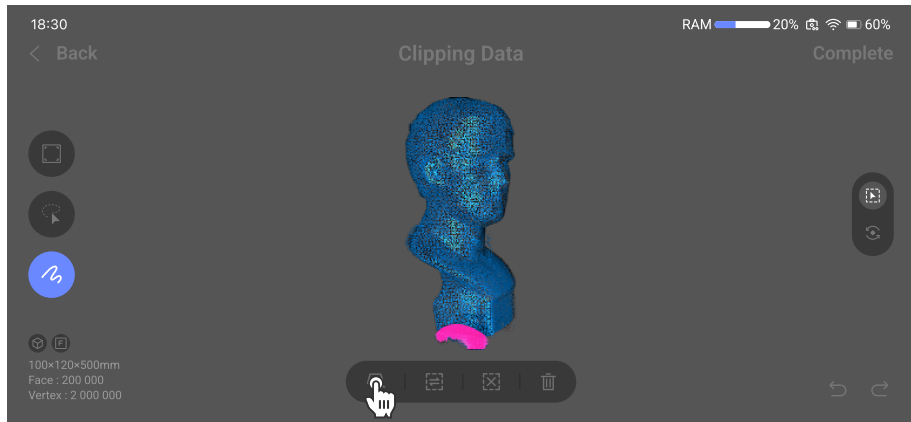
Selection Tool

- ③ Check the processed data and confirm by clicking 'Complete'; if unsatisfied, you can click 'Back' to not save the current operation.



- * **Plane Selection:** Manually select a portion of the data using Brush or Lasso. The plane data corresponding to the selected data is automatically calculated, which can be used to select and delete planar areas such as table surfaces or the ground.



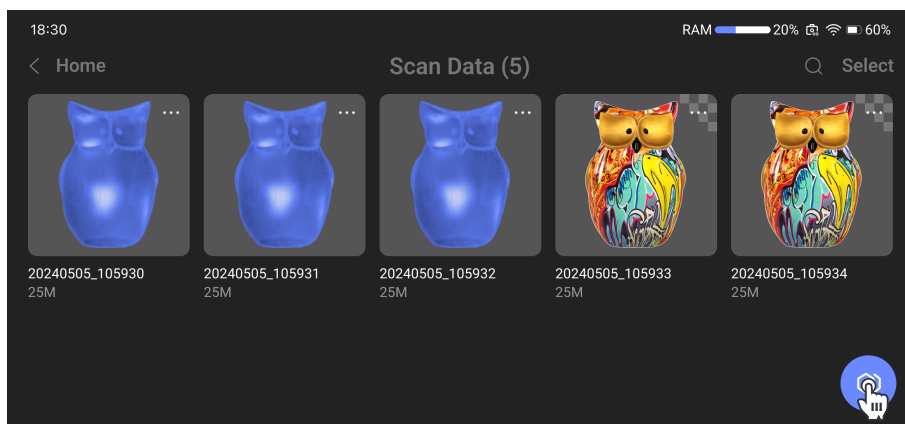


Adjust the thickness of the base

P22 Align

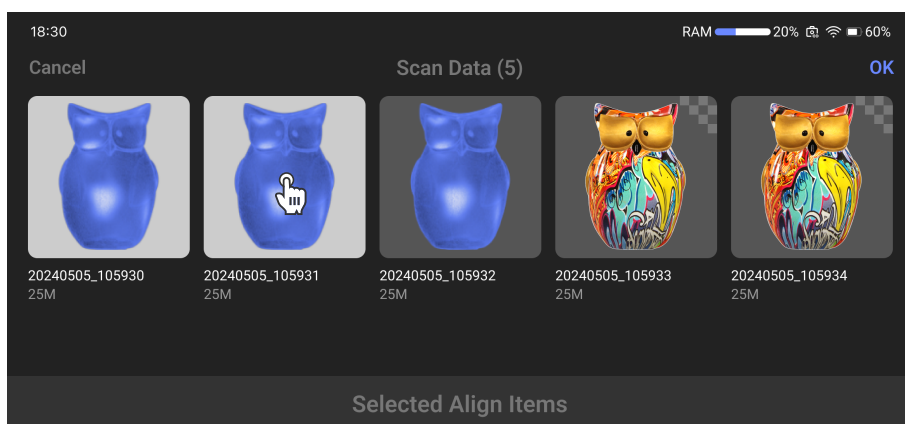
It is possible to scan a model in multiple poses, then align the data from these poses to obtain a more complete model.

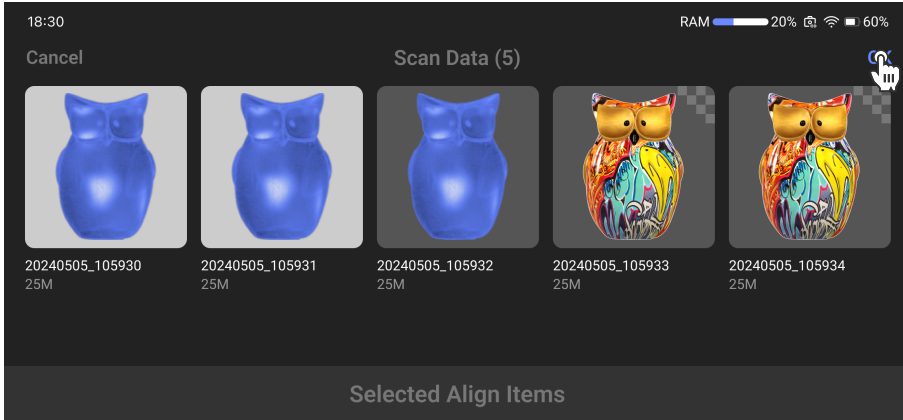
① Enter the alignment interface in file management



② Select the data that needs to be aligned and click confirm.

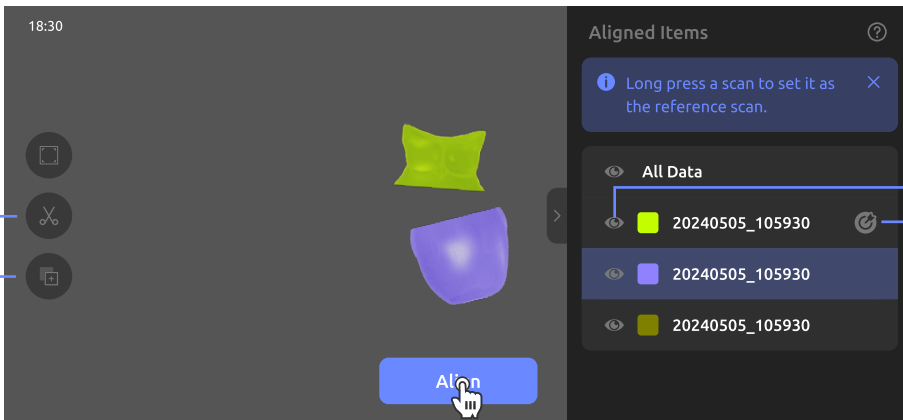
The first selected data will default as the reference alignment object. It is recommended to use the more complete scanned model data as the reference alignment object. The reference alignment object can be modified later in the data list.





③ Configure alignment parameters according to the requirements, then tap Align.

If the data to be aligned to still has noise before alignment, you can tap the corresponding file to clip out the noise. (Please note that the selected point cloud will turn red and won't be aligned to.) You can also tap the configuration button next to the Align button to configure the alignment parameters.



Click on a single piece of data to set it to active. Activated data can be cropped and transformed using the operation panel on the left.

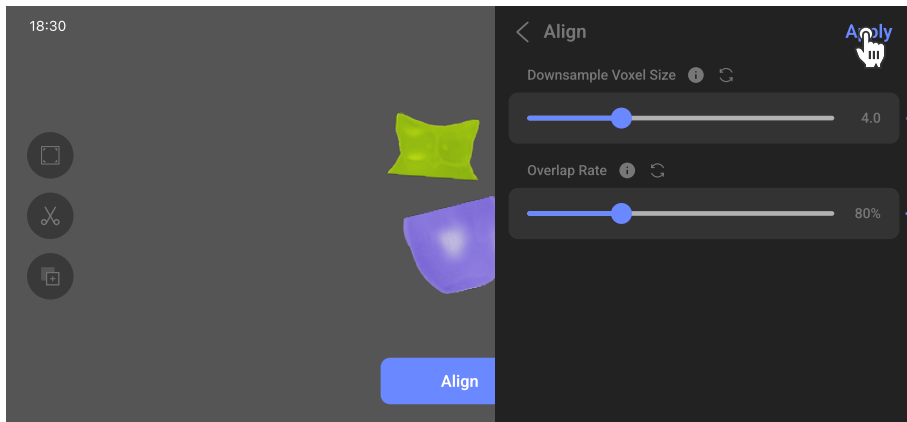
Reference alignment object identification. Long press other data to switch the reference alignment object.

Tap to cross out the "eye" icon to hide the scan.

Transform manipulator: when there are multiple sets of data during scanning, you can switch to view the activated single data. Use one finger to slide and rotate the model, and two fingers to slide and translate the model.

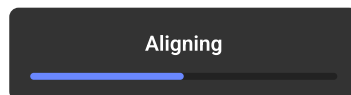
When a single file is selected, the scanned file can be cropped and edited.

- ④ After configuring the alignment parameters according to your needs, tap "Apply".



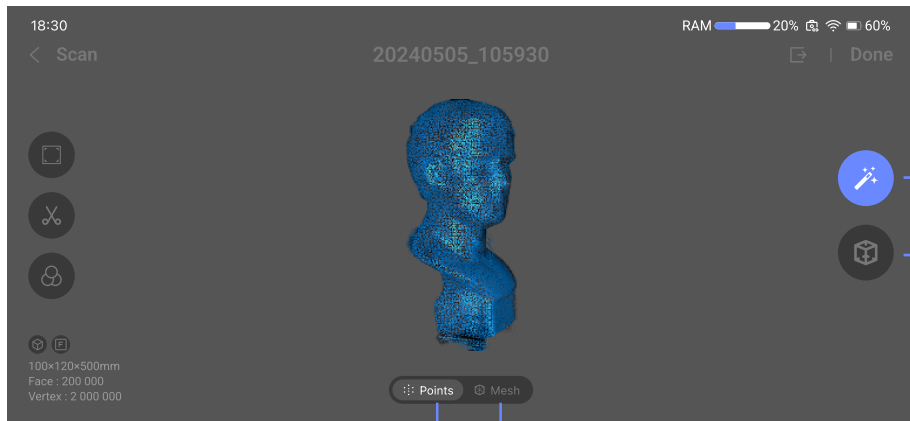
Reduce point cloud data to improve processing efficiency. A larger voxel size increases speed but loses detail, while a smaller voxel size preserves detail but slows down processing.

Determine alignment accuracy. A higher overlap rate provides better accuracy but slower processing speed, while a lower overlap rate in faster processing but reduced accuracy.



P25 Process

The scanned point cloud data can be denoised to remove redundant noise, and be converted into a mesh with the fusion function. Finally, you can edit the mesh by removing floating parts, repairing gaps, simplifying grids, and excuting texture mapping.



Point Cloud Interface

Mesh interface

One-Click Processing: The system has 3 built-in processing modes; you only need to select the corresponding mode. (It performs three steps: meshing, removing isolated items, and simplifying. For other operations, you can choose manual processing)

Low-quality processing: fast speed but average results

Standard processing: suitable for most scenarios, relatively fast, good results

High-quality processing: slow speed but excellent results

Manual processing: You can choose the steps you need to handle (for example, whether simplification is required) and configure each processing step in detail.

Statistical Noise Removal — clean up the isolated points in the cloud.

Fusion — mesh the point cloud data by connecting the dots to produce a complete model.

Remove Floating Parts — clean up the mesh by removing the floating noises from the scans.

Repair gaps — fill the holes on the mesh to produce a watertight model.

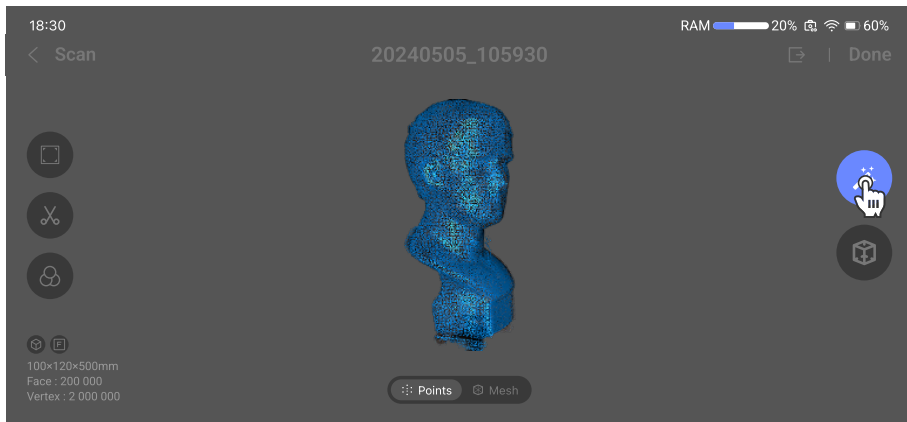
Simplify — narrow down the amount of mesh faces to reduce the data size. The higher the processing level, the greater the reduction in quantity.

Mesh Denoising — smooth the mesh by flattening the surface. The larger the value is, the smoother the mesh will be. The higher the processing level, the smoother the mesh.

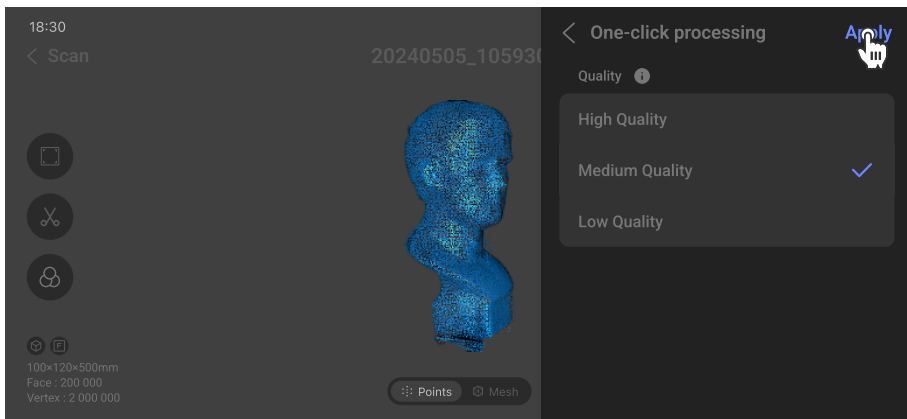
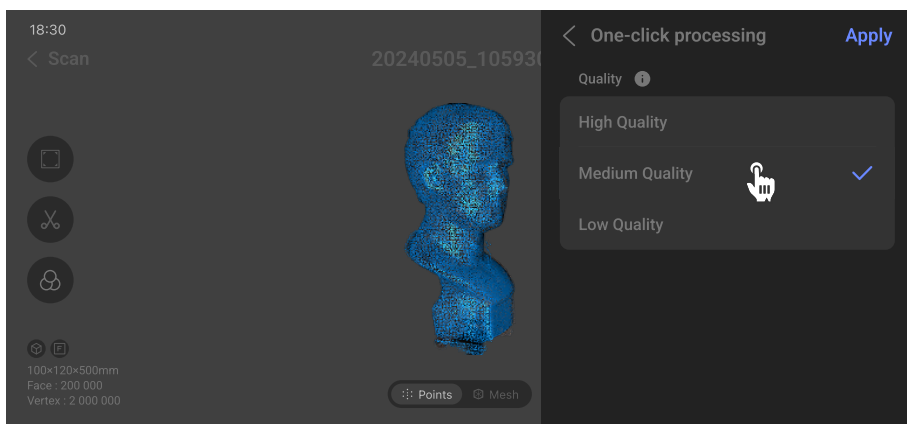
Texture Mapping — apply the texture or color information onto the mesh surface. (Colors only available for some of 3DMakerpro models.) Note: The "texture mapping" here refers to applying a texture image to the surface of a model. Texture mapping can only be performed if the ColorScanning data was enabled when scanning the model.

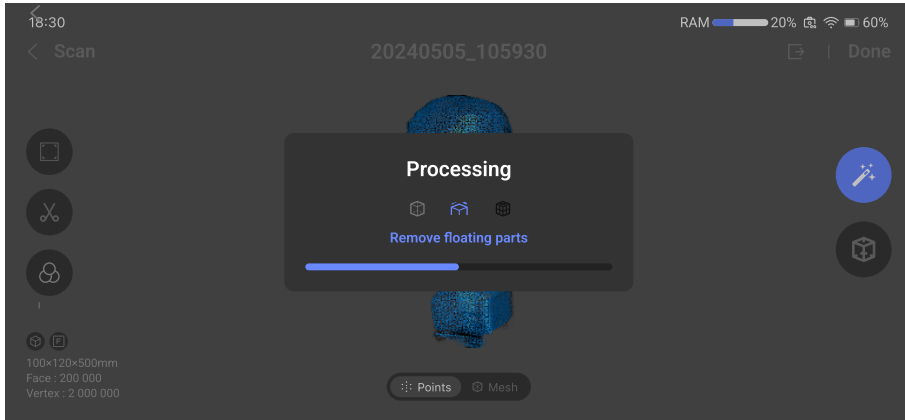
One-click processing

① Select one-click processing



② Select the processing quality according to actual needs, then tap Apply.



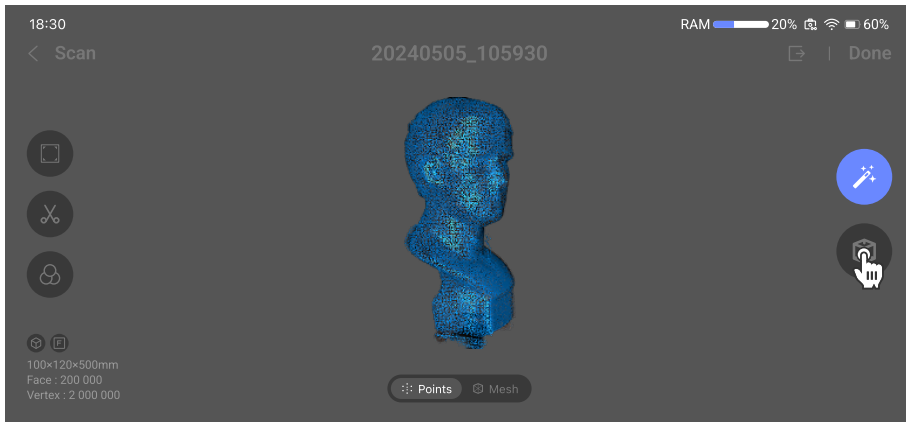


- ③ After the processing is complete, tap 'Done' to save the project; if the results are not satisfactory, you can process it again.

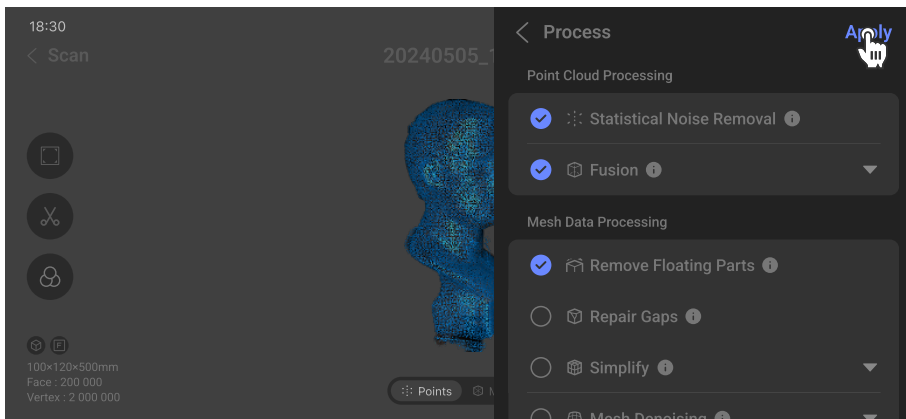
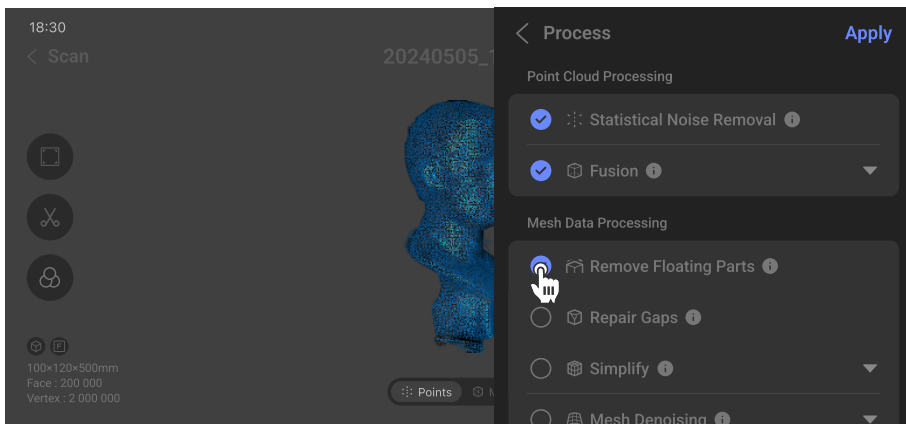


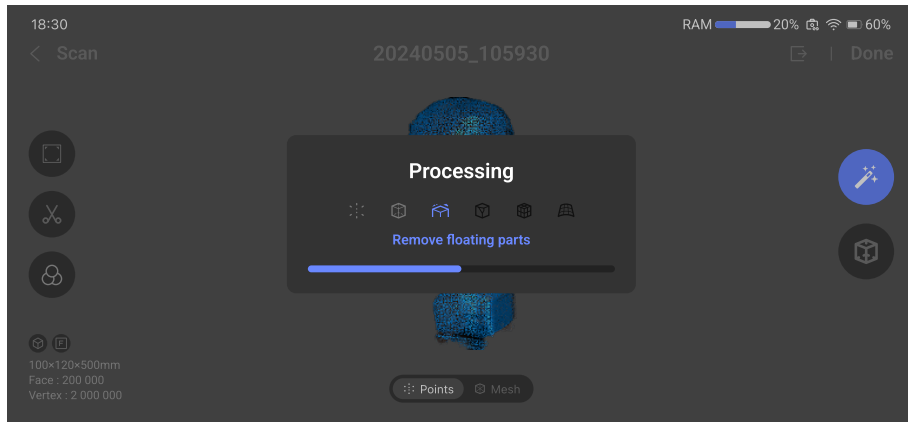
Manual processing

① Choose manual processing



② Configure the processing workflow according to actual needs, then tap Apply.



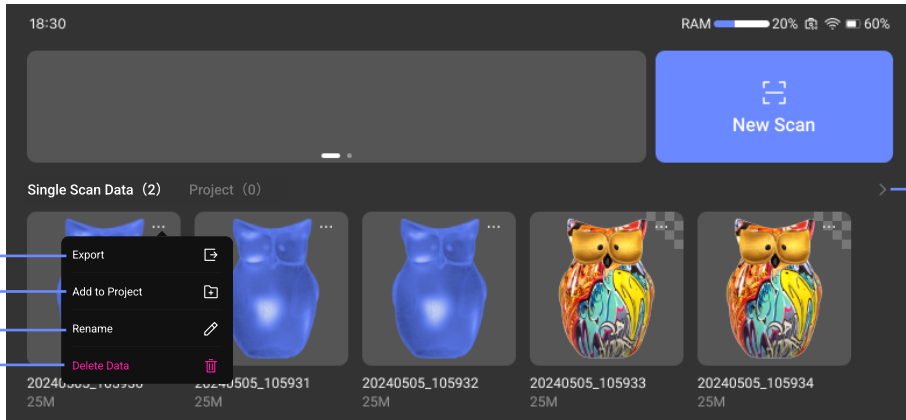


- ③ After the processing is complete, tap 'Done' to save the project; if the results are not satisfactory, you can process it again.



P30 Project Management

File operations including Export, Add to Project, Rename and Delete are available on the project home page and project management page.

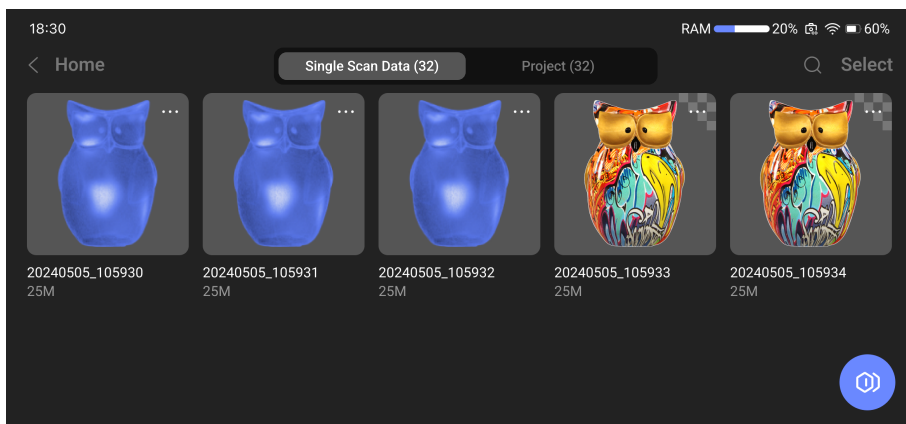


Delete Data

Rename

Add to Project (Create a new project file. It is recommended to package scan data of an object in multiple poses into a single project file.)

Export (Export to USB Drive & Export to Computer)



Export

The export function supports exporting a single project (single export) or multiple projects (batch export) at a time. For single exports, you can export from the project's homepage or the processing interface; for batch exports, you need to enter the project list management interface, select the projects to be exported one by one, and then proceed with the export.

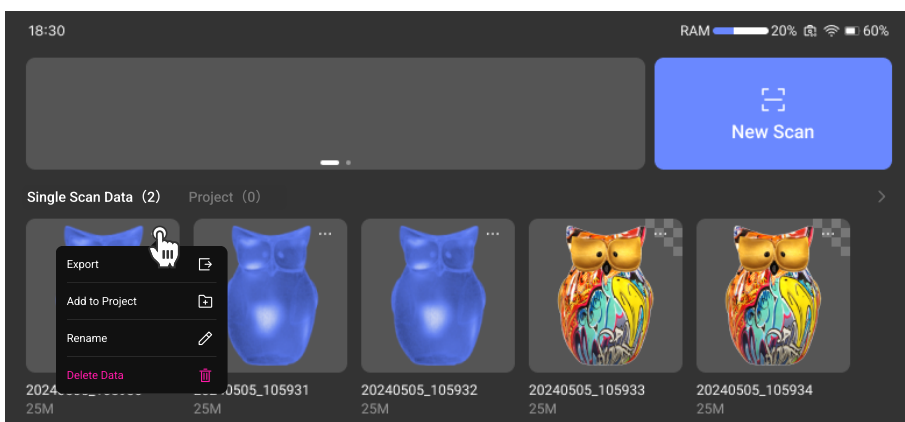
Export Method

Single Export

- In the processing interface (point cloud or mesh data), it supports directly exporting the current project

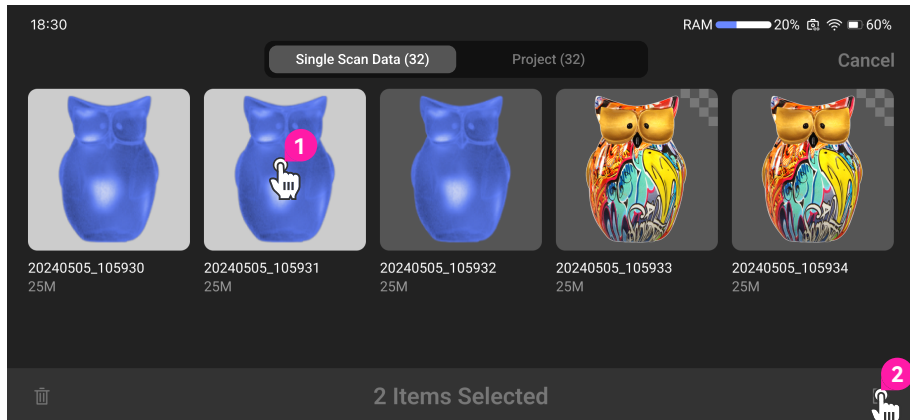
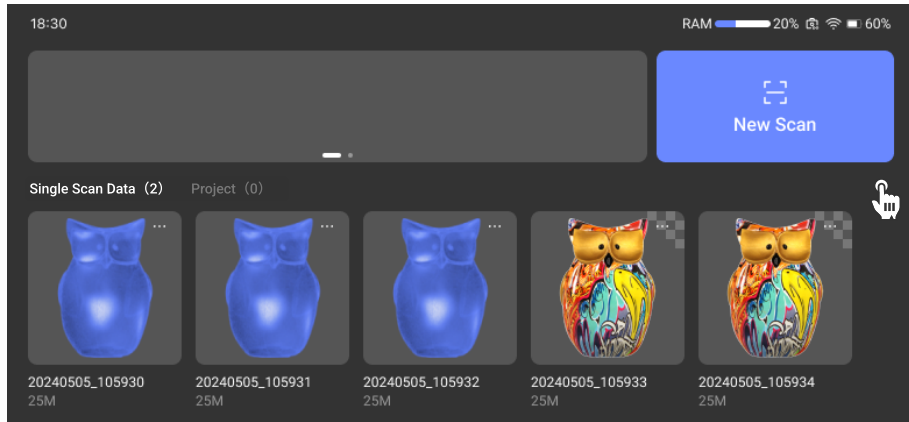


- On the homepage, it supports directly exporting a single project

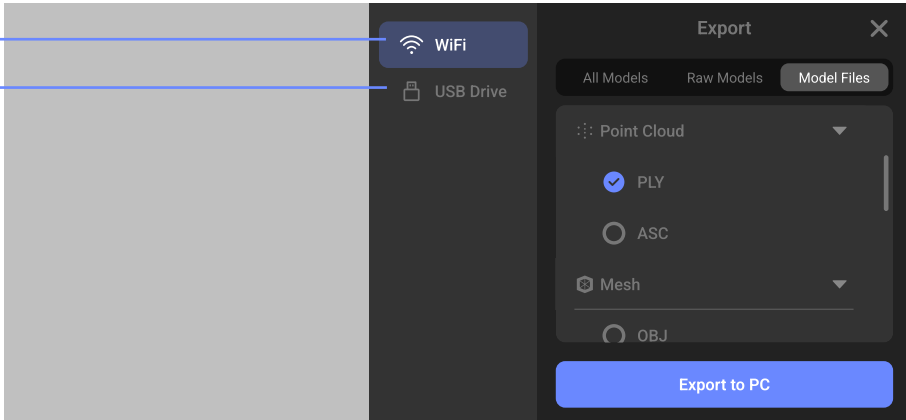


Batch Export

Enter the project management interface, select multiple projects to export, and click Export.

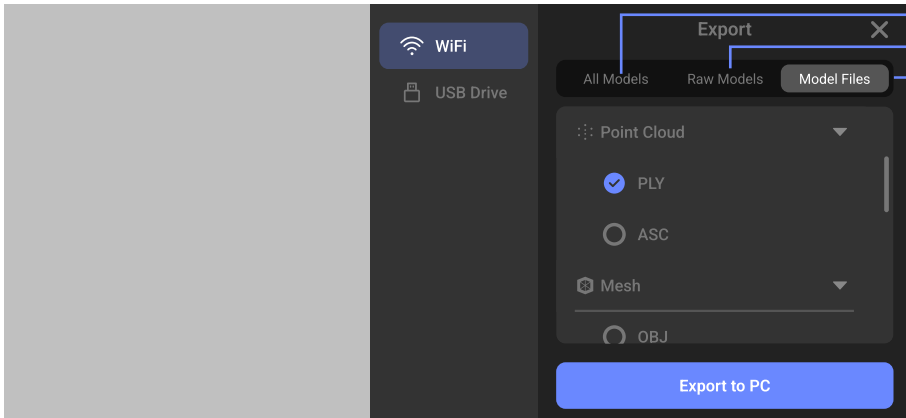


Export Instructions



To export to a USB drive, you need to plug the USB drive and the hub into the charging port at the bottom of the device.

To export to a computer, make sure the device and the computer are connected to the same network.



You can choose to export in either point cloud or mesh model format.

Automatically compress the original point cloud data and export it, with the compressed file format being pha.

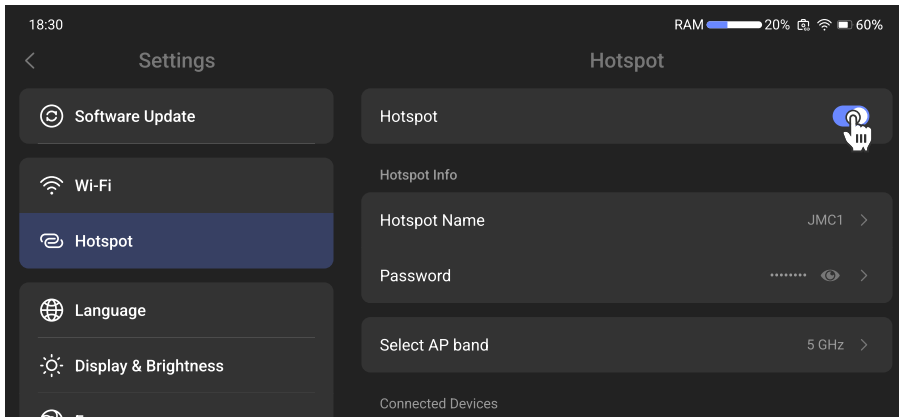
Automatically compress all data and then export it; the compressed file format is pha.

Procedure

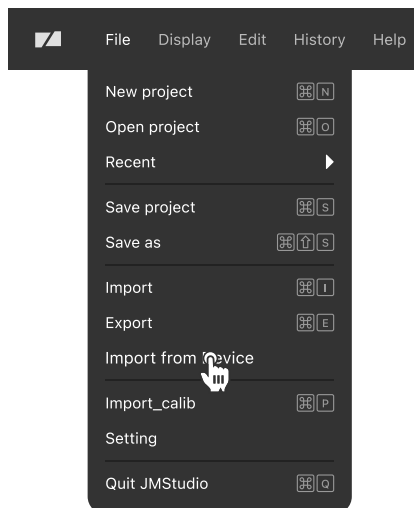
Export to Computer

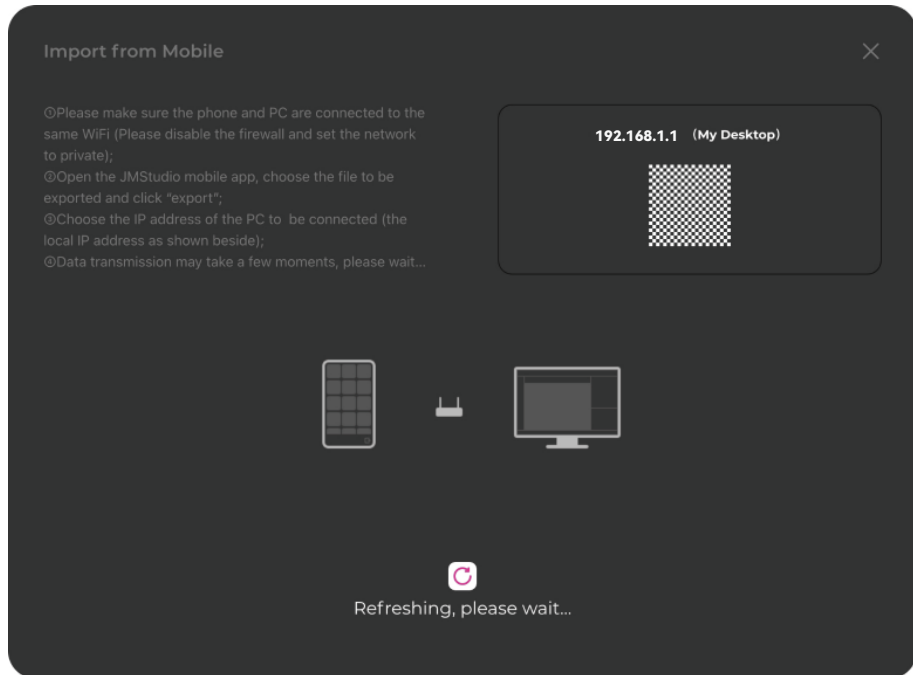
Option 1: Connect the computer to the device hotspot

- ① Turn on the hotspot on the device

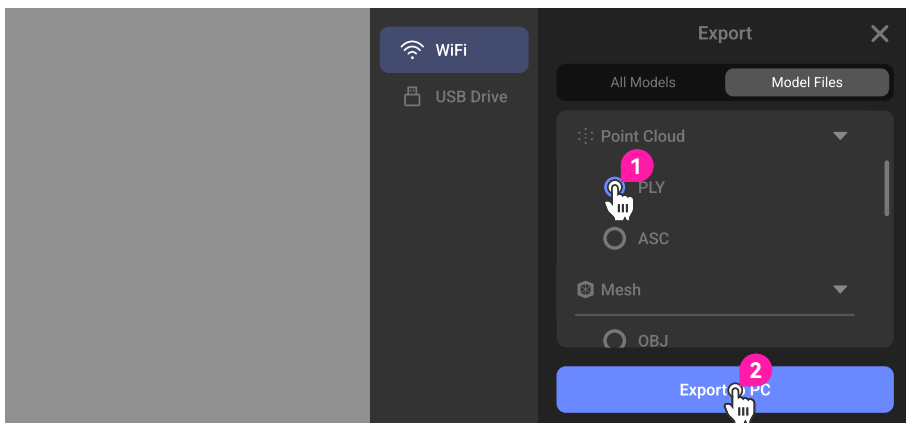


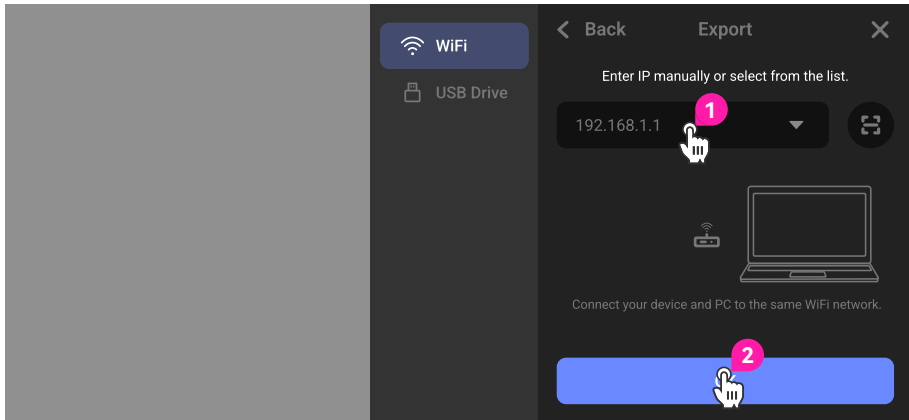
- ② On the PC, open WiFi and find the device's hotspot to connect
- ③ Open JMStudio, click 'File_Import from Device' in the menu bar at the top of the interface to open the mobile import window. Your computer's IP address will be displayed on the right side of the interface:



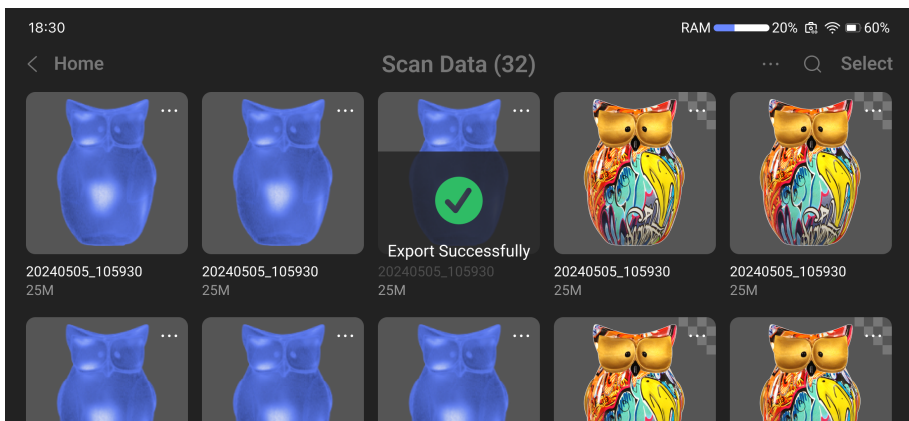
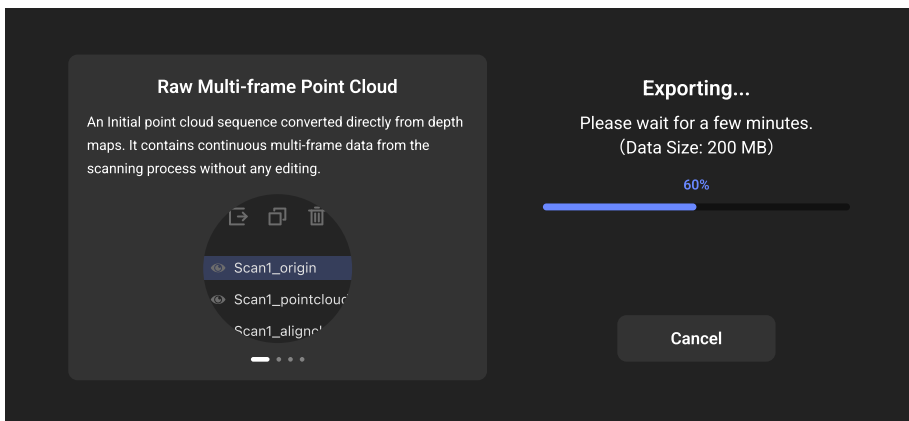


- ④ View the various exportable modes supported by the current model, and select the required data model according to your needs (supporting export of a single model or packaging the current project files). On the device, click 'Export to PC,' enter the IP obtained from the PC, and connect.



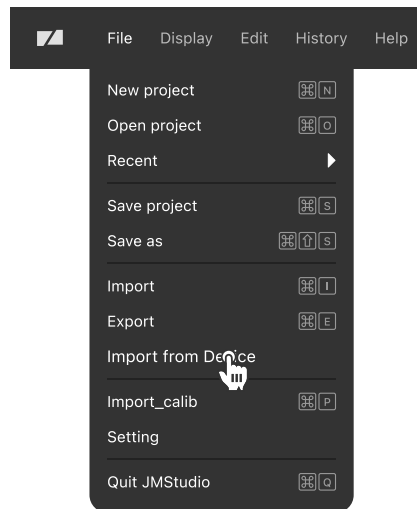


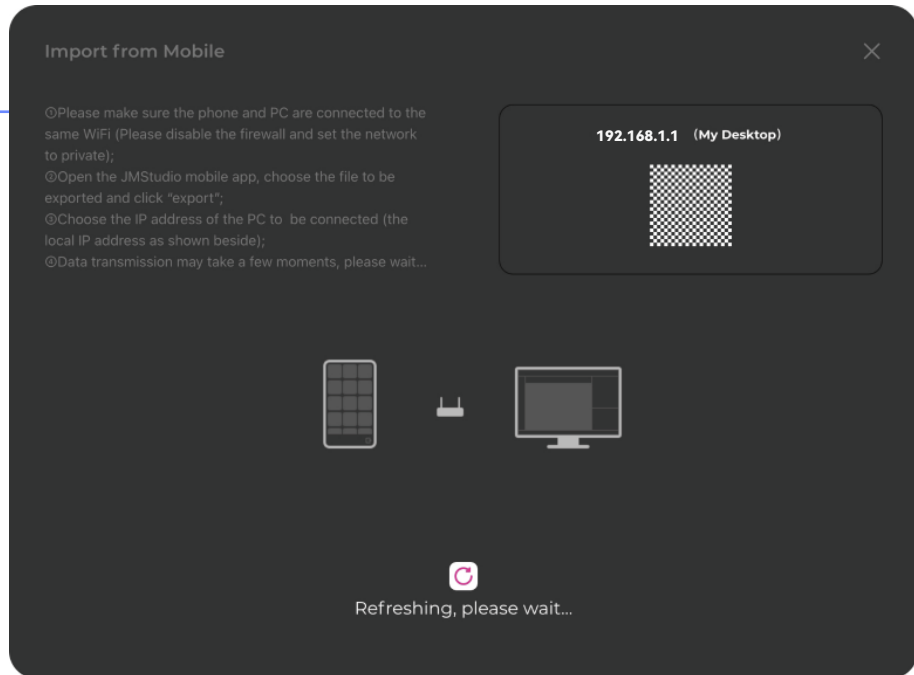
⑧ After a successful connection, the device will transfer data to the PC.
(If exporting a project file, the data will be automatically compressed and transferred to the PC)



Option 2: Export while the device and computer are connected to the same network

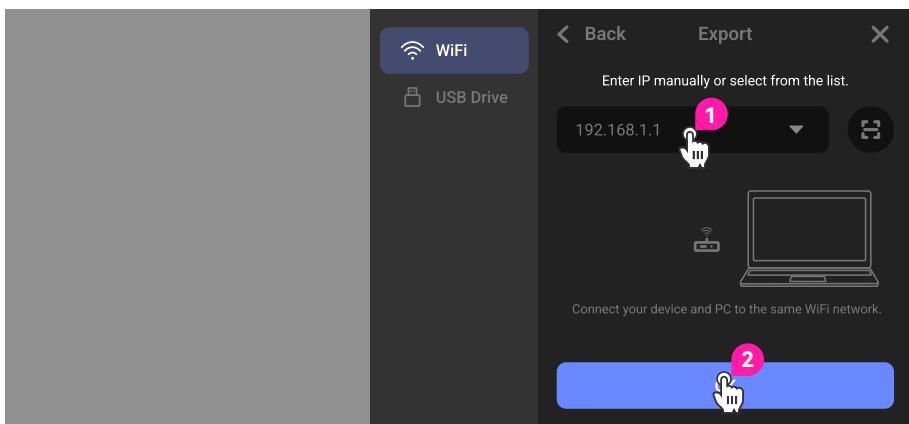
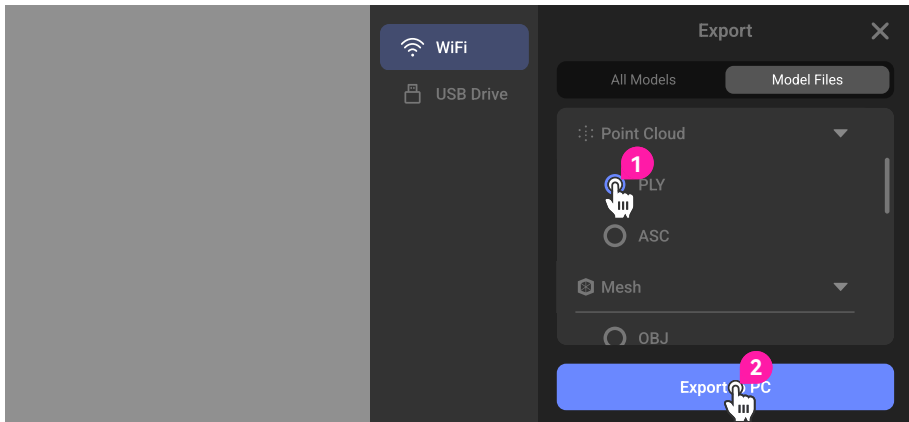
① On the computer, click 'File_Import from Device' in the 'Menu Bar' at the top of the interface to open the mobile import window. Your computer's IP address will be displayed on the right side of the interface.



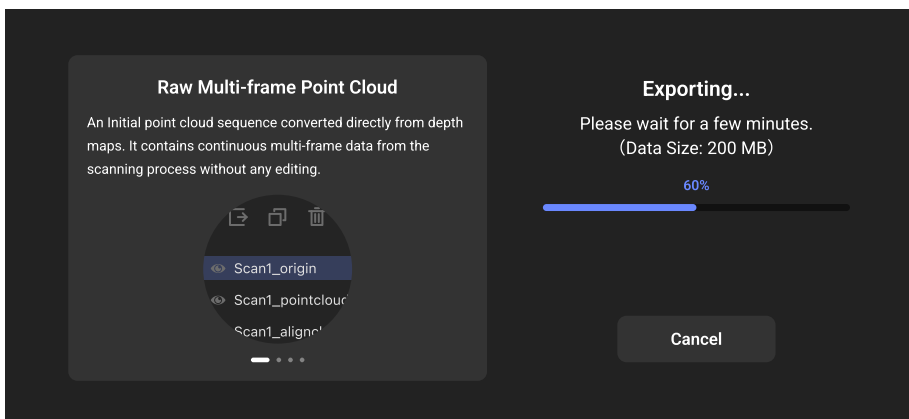


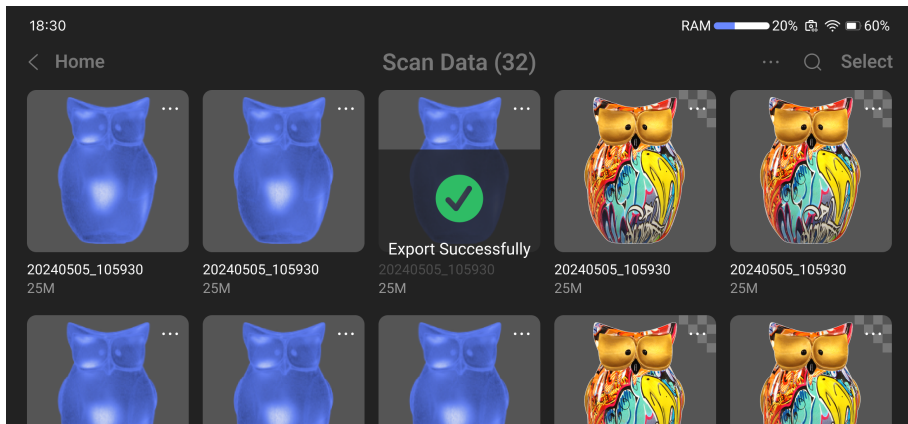
- ①Please make sure the device and PC are connected to the same WiFi (⚠ Import-
ant: Please disable the firewall and set the network to private);
- ②On your device, choose the file to be exported and click "export";
- ③Choose or Enter the IP address of the PC to be connected (the local IP address as
shown beside);
- ④Data transmission may take a few moments, please wait...

② View the various exportable modes supported by the current model, and select the required data model according to your needs (supporting export of a single model or packaging the current project files). On the device, click 'Export to PC,' enter the IP obtained from the PC, and connect.



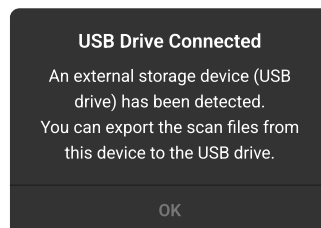
③ After a successful connection, the device will transfer data to the PC.
(If exporting a project file, the data will be automatically compressed and transferred to the PC)





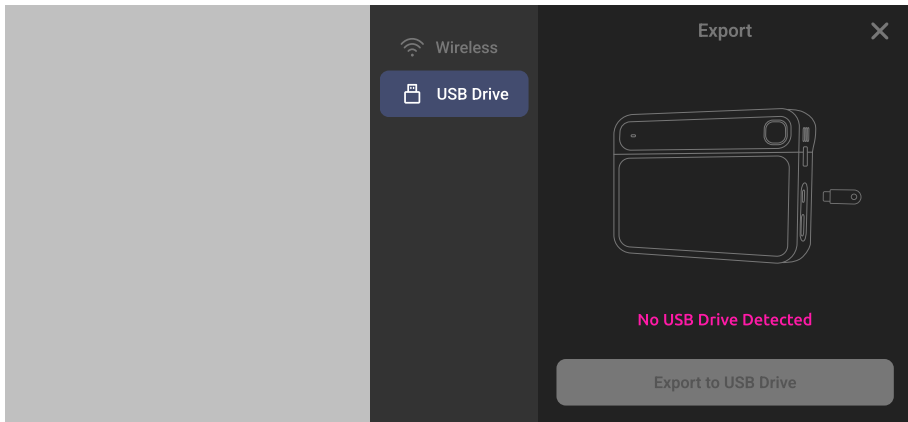
Export to USB Drive

To export to a USB drive, you need to provide your own hub and USB drive. Connect the hub and USB drive (ThinkPlus TPU301 recommended), and insert them into the device's bottom charging port. A pop-up notification will indicate that the device has successfully connected to the USB drive:

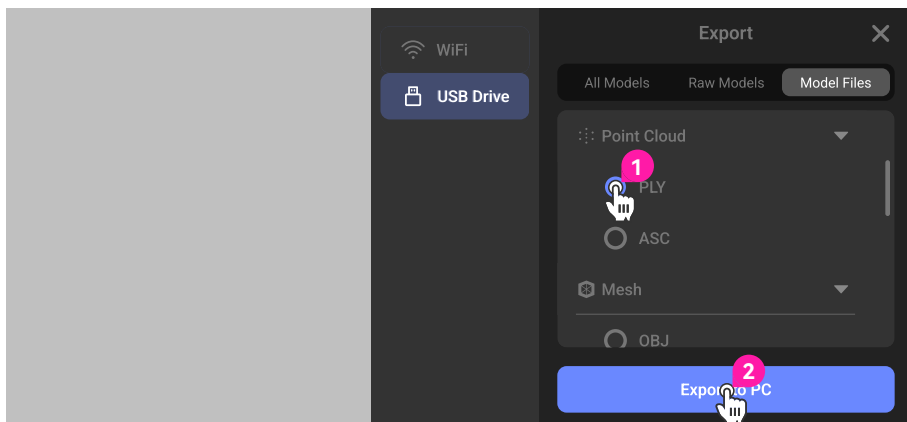


① Select 'USB Drive' on the export interface

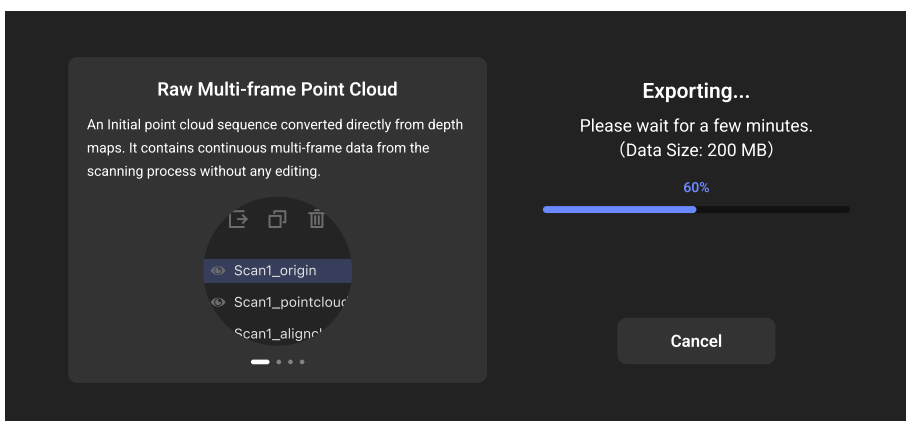
- If the prompt indicates that the USB drive is not recognized, you need to check whether the USB drive is properly inserted.

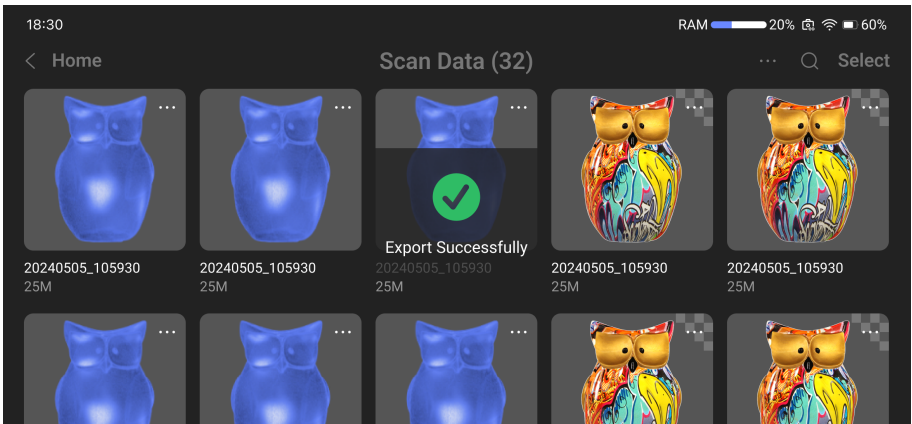


- After successful recognition, you can view the various export modes supported by the current model and select the required data model according to your needs (supports exporting a single model or packaging the current project file). Then, click 'Export to USB' on the device.



- ② After a successful connection, the device will transfer data to the PC. (If exporting a project file, the data will be automatically compressed and transferred to the PC)





Add to Project

This function enables merging multiple independent scan files into one project. Once merged, the individual source scan files will no longer display separately.

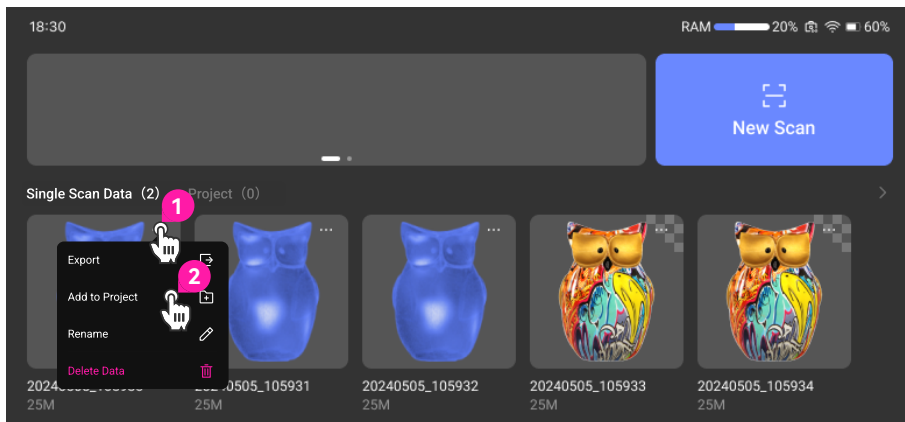
The add function supports single-file addition and batch addition:

- Single addition: Operate on the project home page.
- Batch addition: Navigate to the project list management page, select multiple target scan files in sequence, then complete the addition.

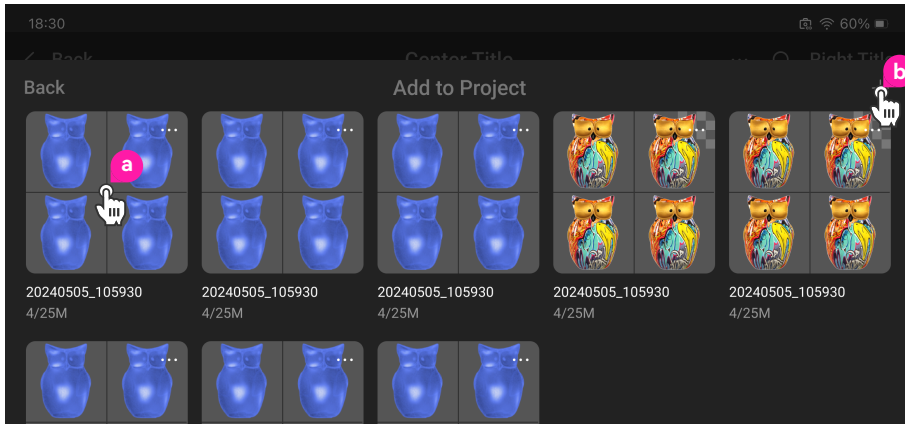
Addition Modes

Single Addition

Single scan files can be added directly on the home page.

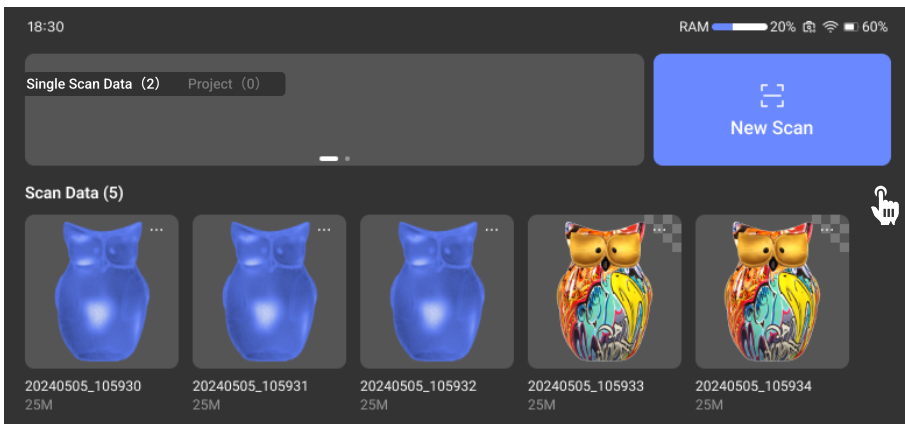


- If no existing projects are available, a new project file will be generated automatically.
- When projects already exist, two addition options are provided:
 - a. Tap an existing target project to add files into it.
 - b. Tap the top-right button to create a new project and save the files within it.

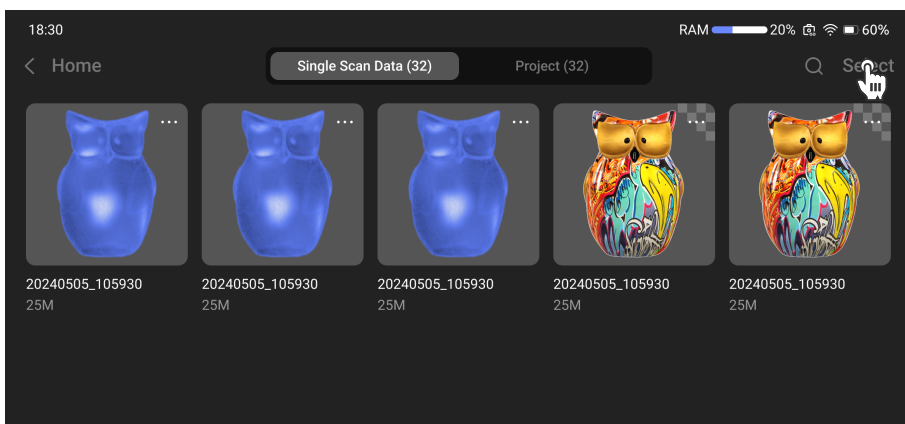


Batch Addition

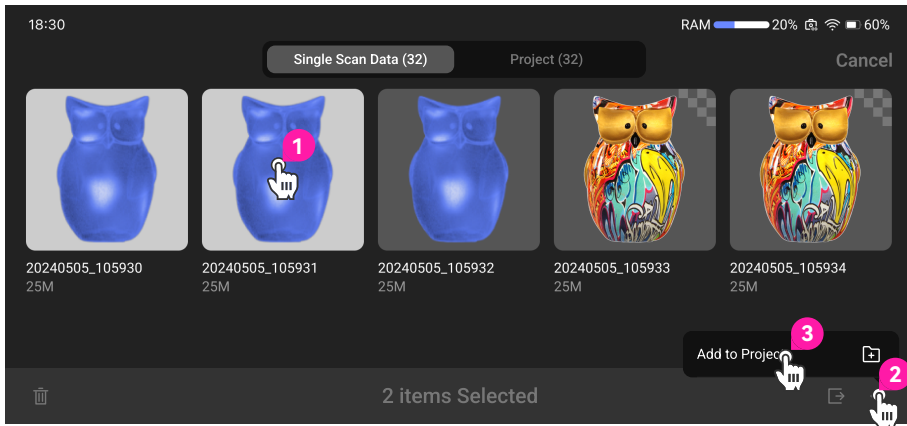
1. Navigate to the project management page.



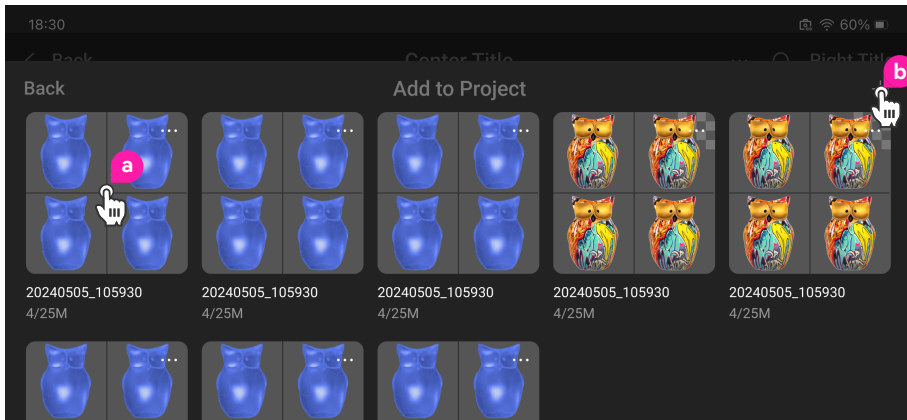
2. Select multiple scan files to be added.



3. Tap the add button to finish batch import.

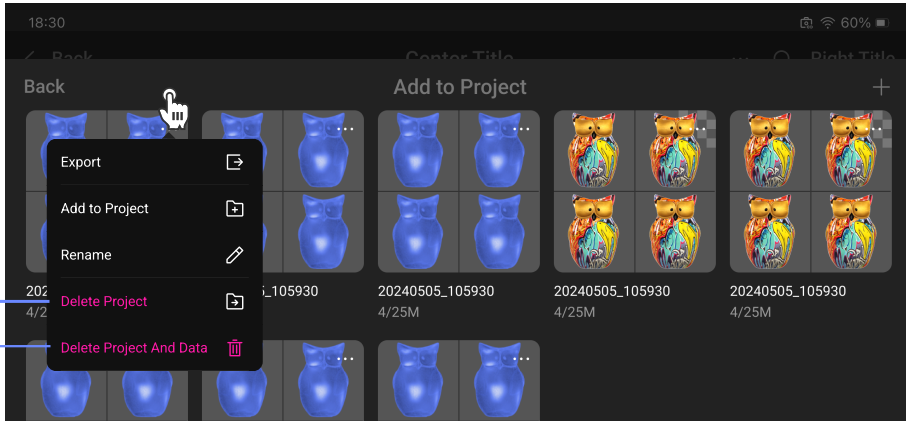


- If no existing projects are available, a new project file will be generated automatically.
- When projects already exist, two addition options are provided:
 - a. Tap an existing target project to add files into it.
 - b. Tap the top-right button to create a new project and save the files within it.



Ungroup Project File

For existing project files, if you no longer need to store multiple scan data-sets within a single project, you may run the ungroup operation to split the package back into independent single-scan files.



Remove the project file and permanently erase all original single-scan data contained inside the project.

Only remove the project grouping file; all scan data inside will be split into standalone single-scan files (original scan data will be retained).

When connected to PC

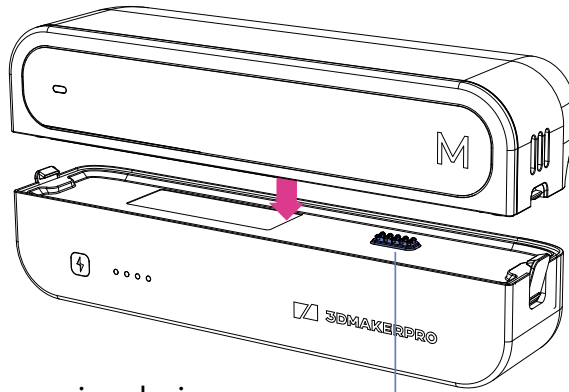
P48 Hardware Assembly

This product is available in a variety of specifications and assembly configurations, which can be assembled and used according to your actual application requirements.

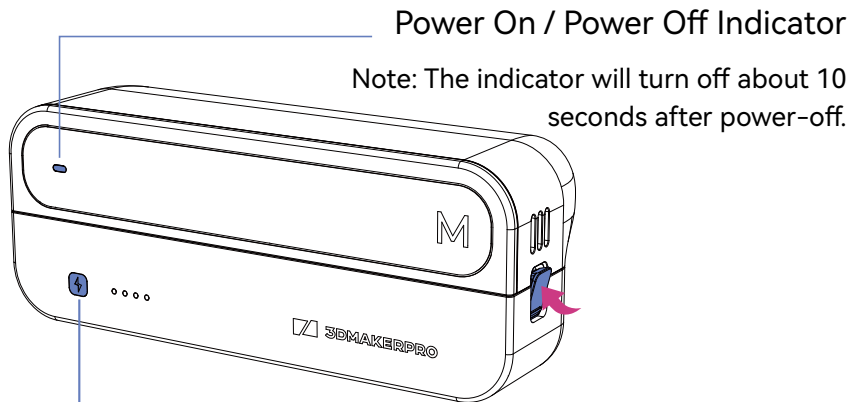
*All installation procedures are demonstrated with the M Module as an example.

Module & Base Installation

①The module will automatically attach to the base via magnetic attraction, then fasten the latches on both sides.



Note: Protect the pogo pins during operation.

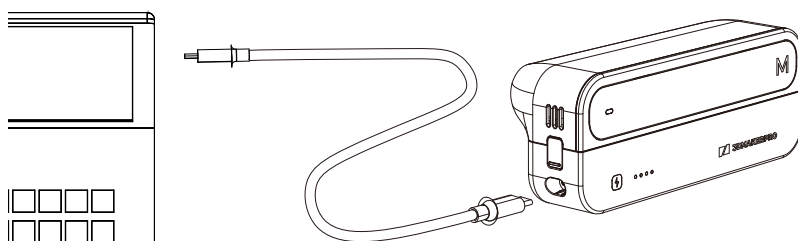


Power On / Power Off Indicator

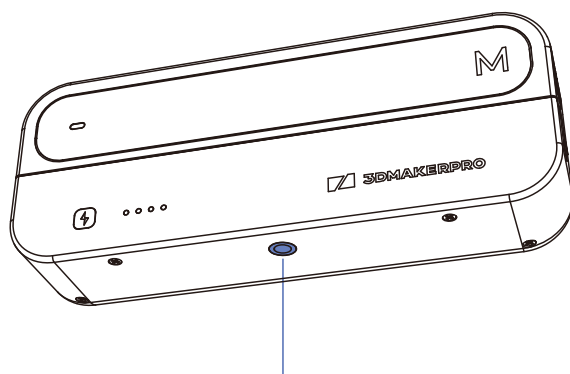
Note: The indicator will turn off about 10 seconds after power-off.

- Short tap: Display battery level
- Press and hold for 2s: Power on the device
- Press and hold for 2s: Power off the device

②Connect one end of the cable to the base, and the other end to the computer.



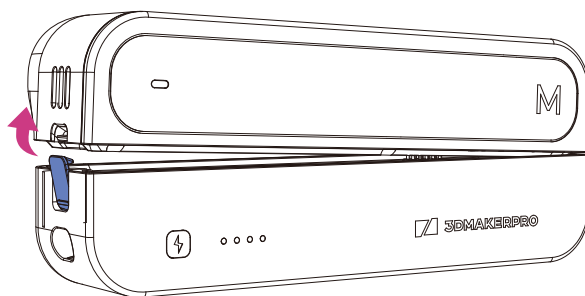
*③ You may purchase a separate bracket to install and use with the base.



1/4-20" thread supports mounting of extended accessories.

Detach

Unlock the latch on one side of the device and lift the module upward.



P50 Software Installation

Operating System Requirement

Recommended Computer Configurations

Intel Core i7 8th, 16GB RAM, NVIDIA1060 GPU with 4GB VRAM

Minimum Computer Configurations

Intel Core i5 8th, 16GB RAM, MX250 GPU with 2GB VRAM

How to Install

You can acquire the application file by visiting our website.

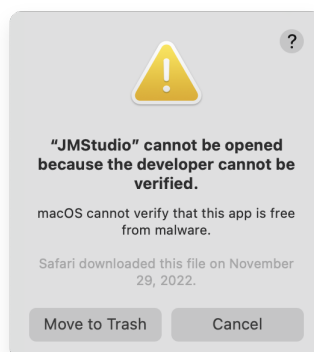
Follow the steps below to install the software.

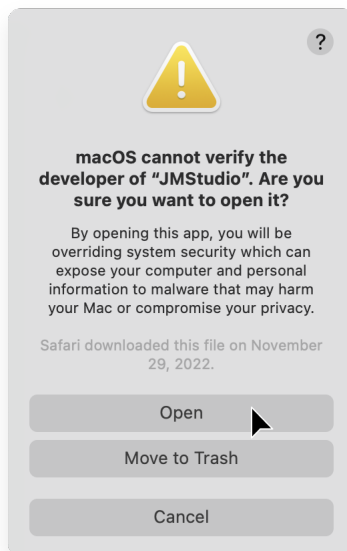
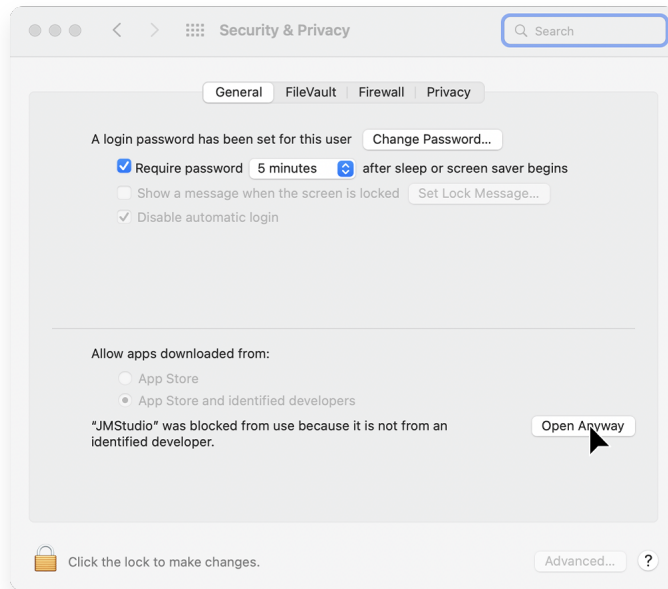
For macOS

① Double-click the application file and drag it to the Applications folder.

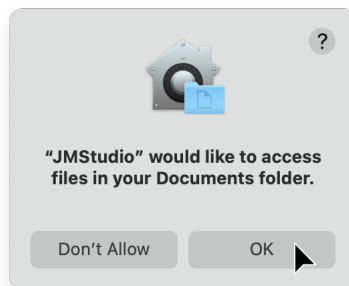
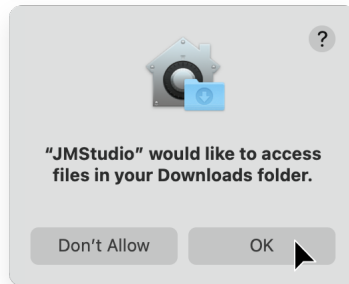


② When this error occurs, please go into your Security & Privacy, check the App Store and Identified Developers radio button, and click Open Anyway.

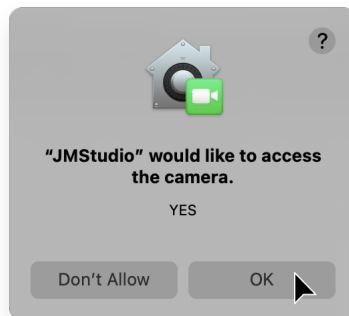




③ Allow JMStudio to access files in your Desktop folder.



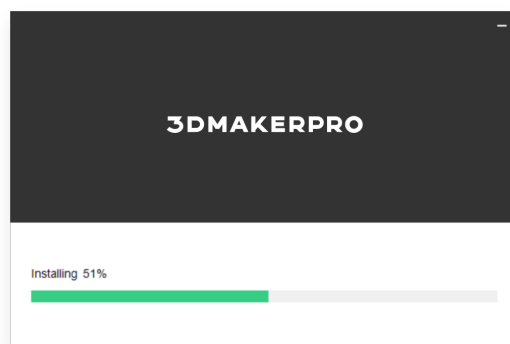
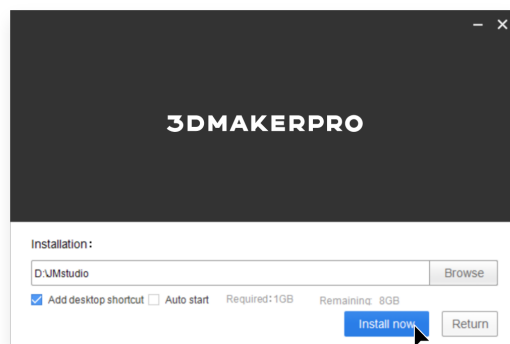
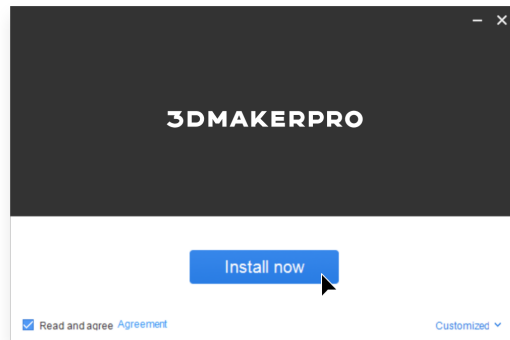
④ Run JMStudio, allow it to access the camera, now the installation is completed.

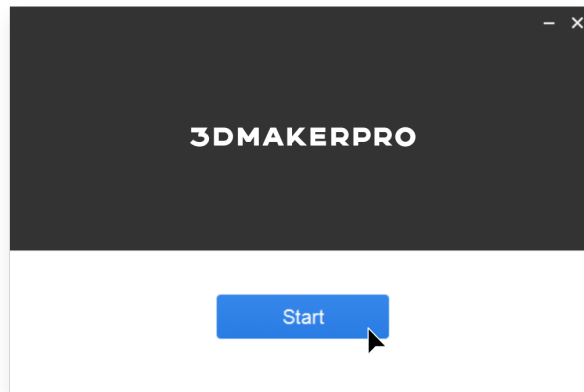
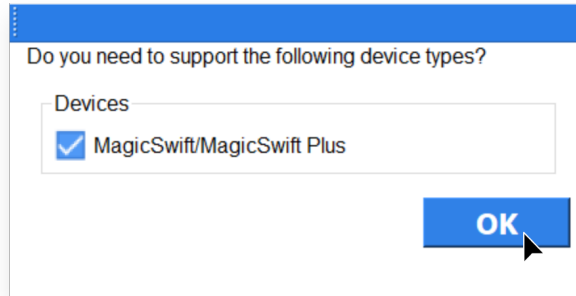


For Windows

Click on the application file, follow the intallation wizard and click Next to install the software.

<





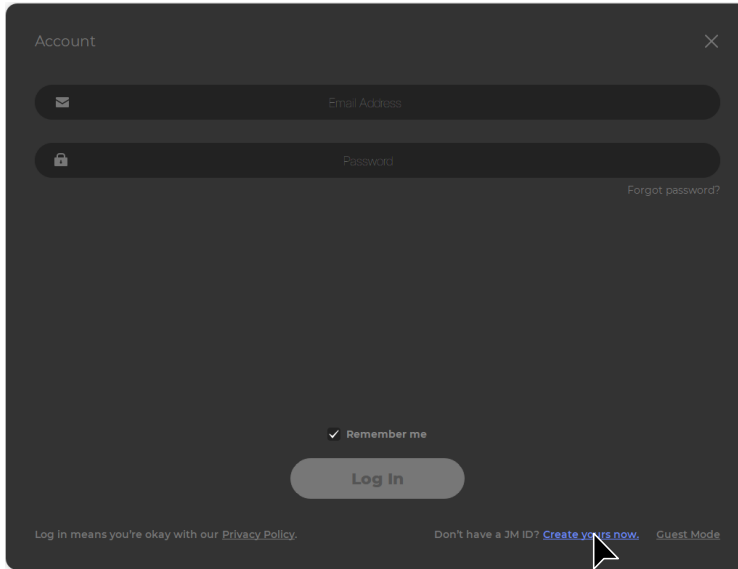
Software Upgrade

Please make sure you're running the latest version of software.

P55 Log in to register

Log in with your JM ID. If you have not registered, you can click "Create yours now." in the lower right corner to jump to the official website to register.

* You can also use it directly through the "Guest Mode" in the bottom right corner.



Account

Email Address

Password

Forgot password?

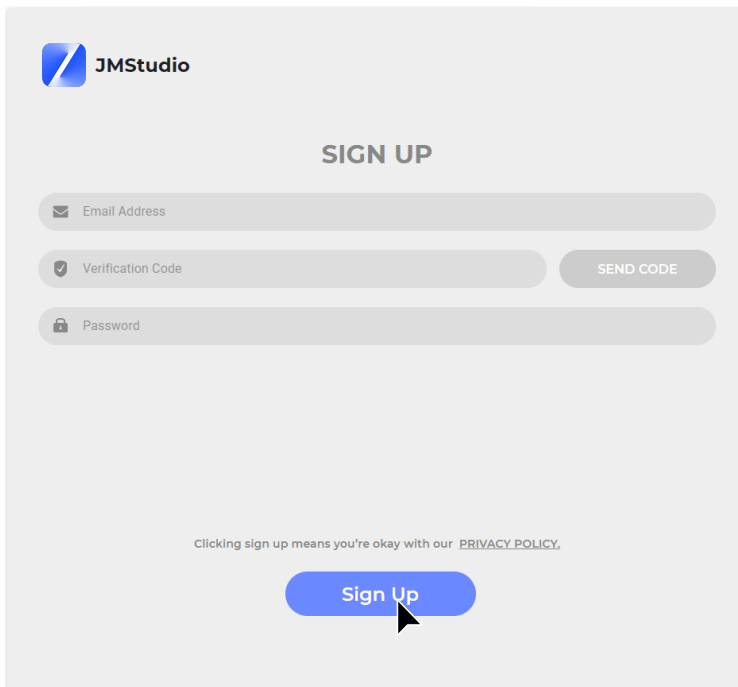
☒ Remember me

Log In

Log in means you're okay with our [Privacy Policy](#).

Don't have a JM ID? [Create yours now.](#) [Guest Mode](#)

Enter the email information, click "SEND CODE", enter the verification code in the email and set the account password to register.



JMStudio

SIGN UP

Email Address

Verification Code

SEND CODE

Password

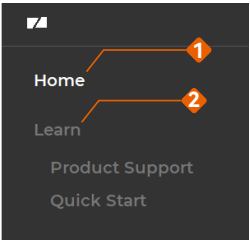
Clicking sign up means you're okay with our [PRIVACY POLICY](#).

Sign Up

P56 Start page

The start page is divided into two parts:

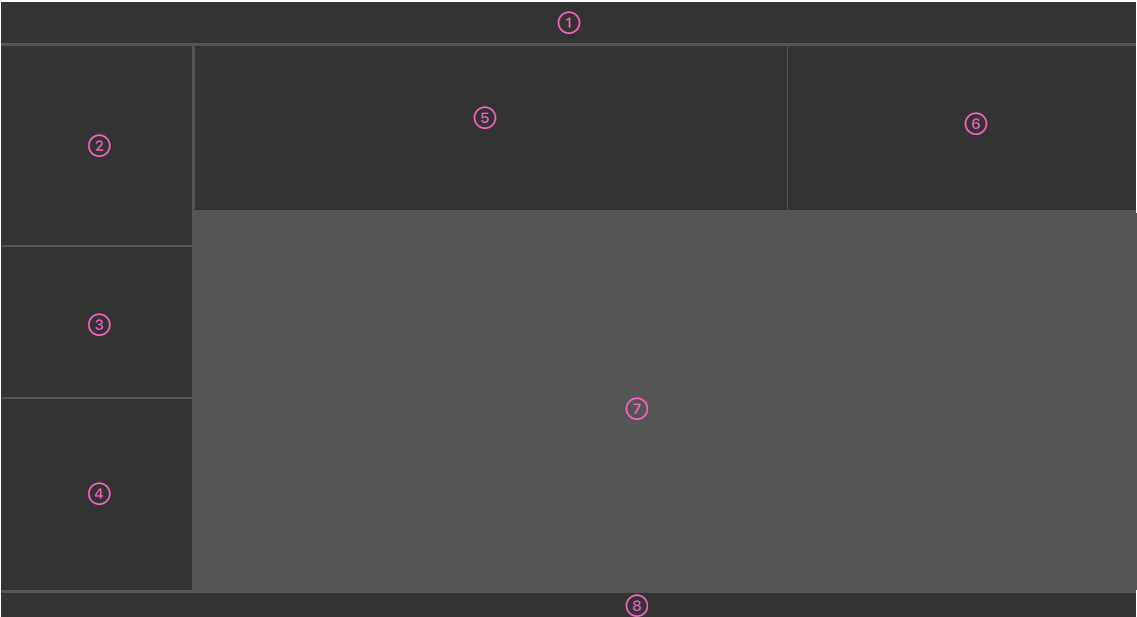
① Home ② Learn



Home

The Home function partition is as follows:

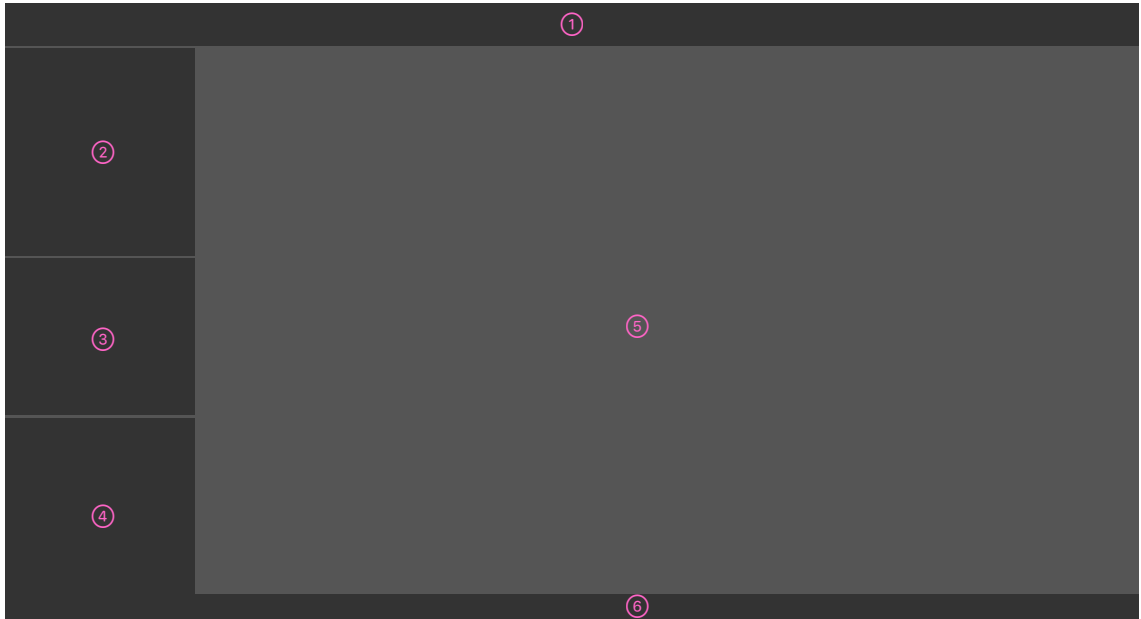
①Title Bar ②Navigation Bar ③Official Information Bar ④Main Operation Area ⑤Bulletin Board ⑥Device Status Bar ⑦File List ⑧Status Bar



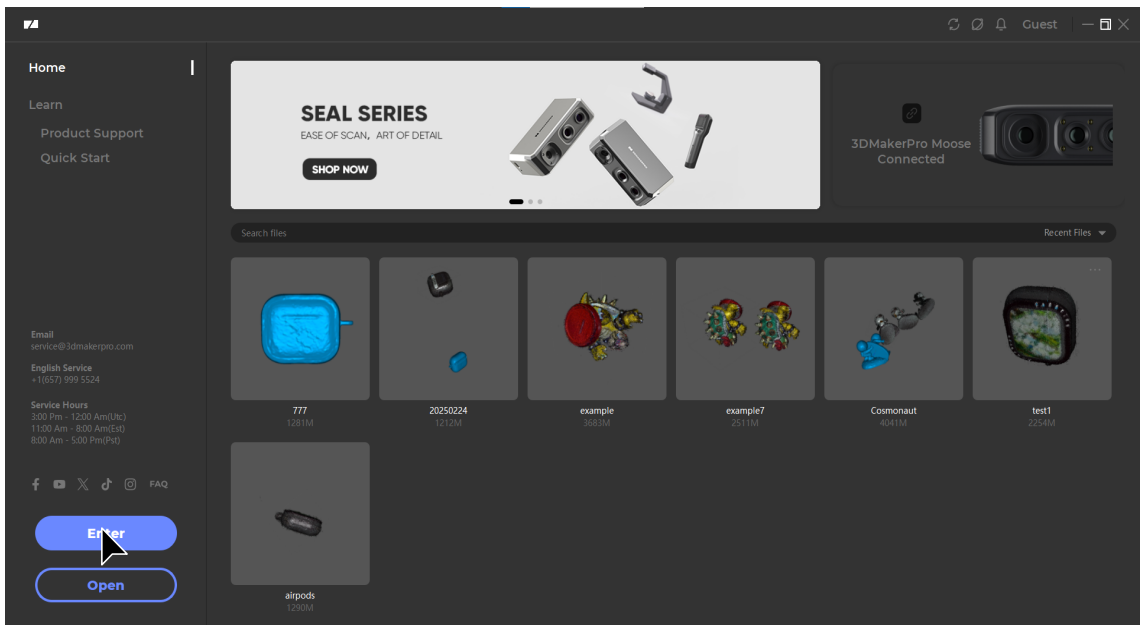
Learn

The Learn function is divided as follows:

①Title Bar ②Navigation Bar ③Official Information Bar ④Project New Construction ⑤ Study Area ⑥Status Bar



You can directly understand the general operation content in "Learn", and then select "Enter" from "Home" to enter the scan preview state.



P58 Device status confirmation

The user interface consists of the following parts:

- ①Title Bar ②Tool Bar ③Work Mode ④3D Viewer ⑤Work Panel ⑥Data Panel ⑦Status Bar



Make sure that you have connected your device to your computer correctly, and you can check the "Device Connection Status" in the "Work Mode ".

 ①

Easy Scan Table Scan Edit Mode ↶ ↷ ≡

Number	Operate	Illustrate
1	Device connection status	Check the connection status of the device.  The device did not connect successfully  The connection status is being refreshed  The device is connected

If your device does not connect successfully, you can reconnect your device and tap  to refresh (the connection status will be automatically refreshed after the MacOS side completes the import calibration).

P59 Import Calibration & Device Binding

For other 3DMakerpro scanners, please import the calibration file into JMStudio for the first time you use the scanner.

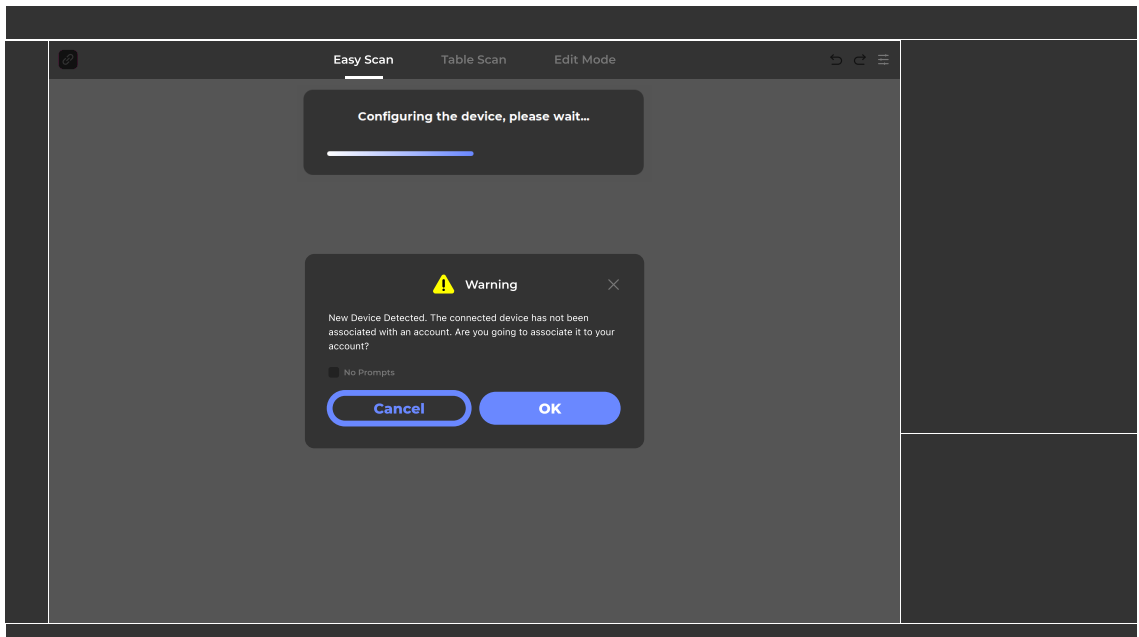
Make sure your PC is networked to download the calib file. For Windows, JMStudio can automatically identify your scanner and download the calib as well; for macOS, it requires you to set the scanner type first then download it.

When you download the calibration file, you will be prompted to bind the device to your account. If the pop-up window prompts that you cannot bind in the system, you can click "OK" in the pop-up window to directly open the upload interface, upload your device information, and the human customer service will help you manually bind it in time after receiving your application.

For Window

When the device is properly connected and connected to the Internet, the calibration file is automatically downloaded. When you download the calibration file, click OK in the pop-up box to bind the device to the current account. If you do not need to bind the device, you can simply click Cancel.

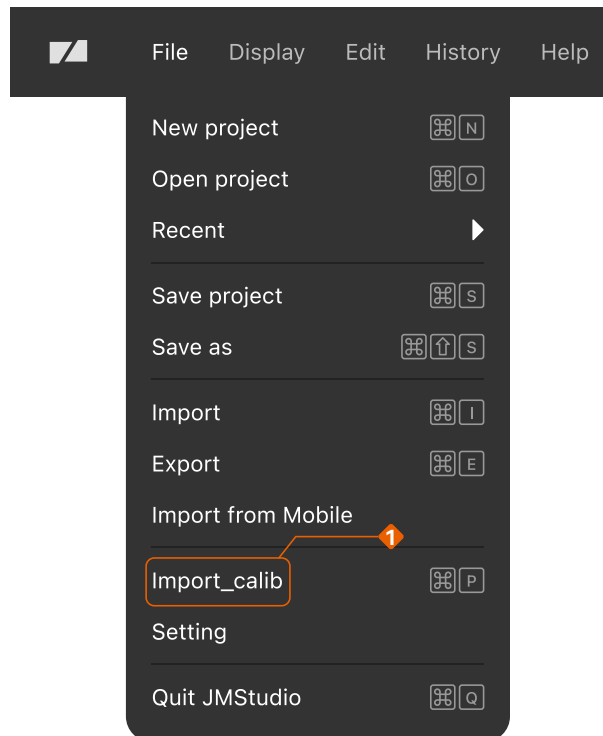
*If you log in as a guest, the device will not prompt for binding.

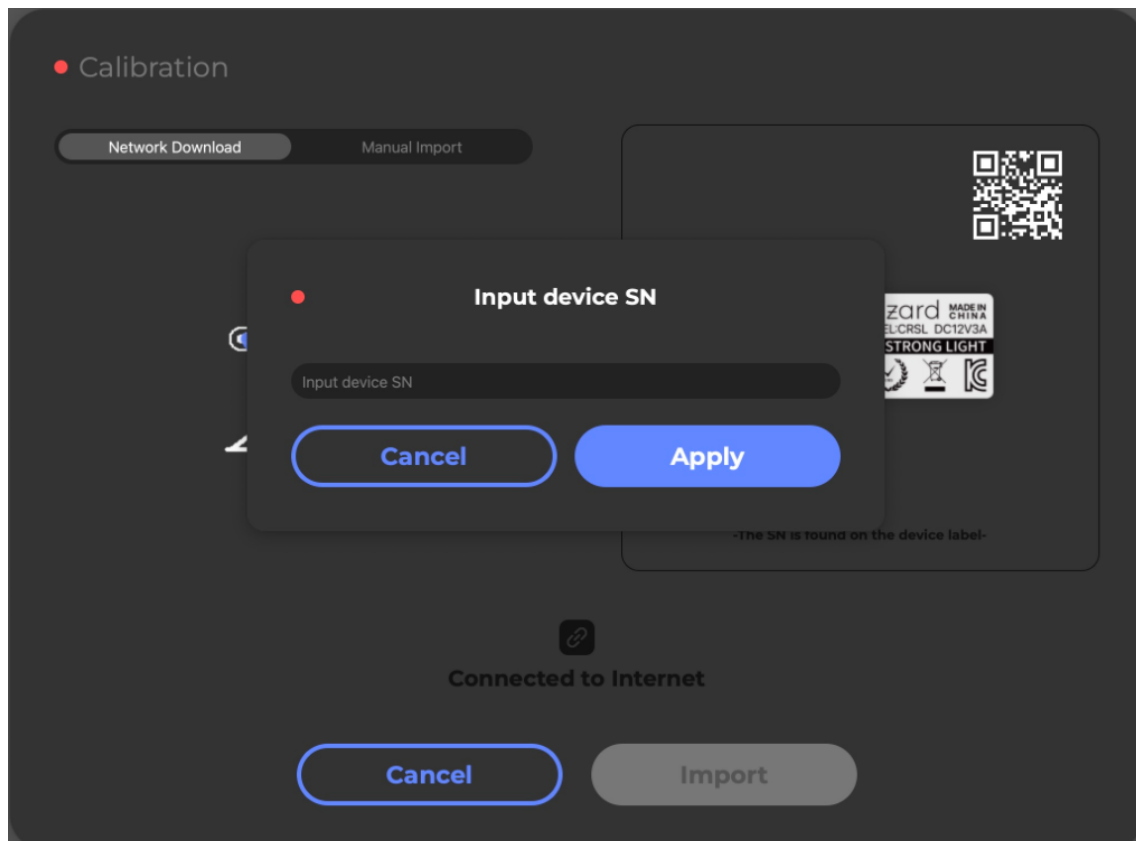


For macOS

①In the Title Bar, click File_Import calib and go into Network Download, then input the device SN and click "Import".

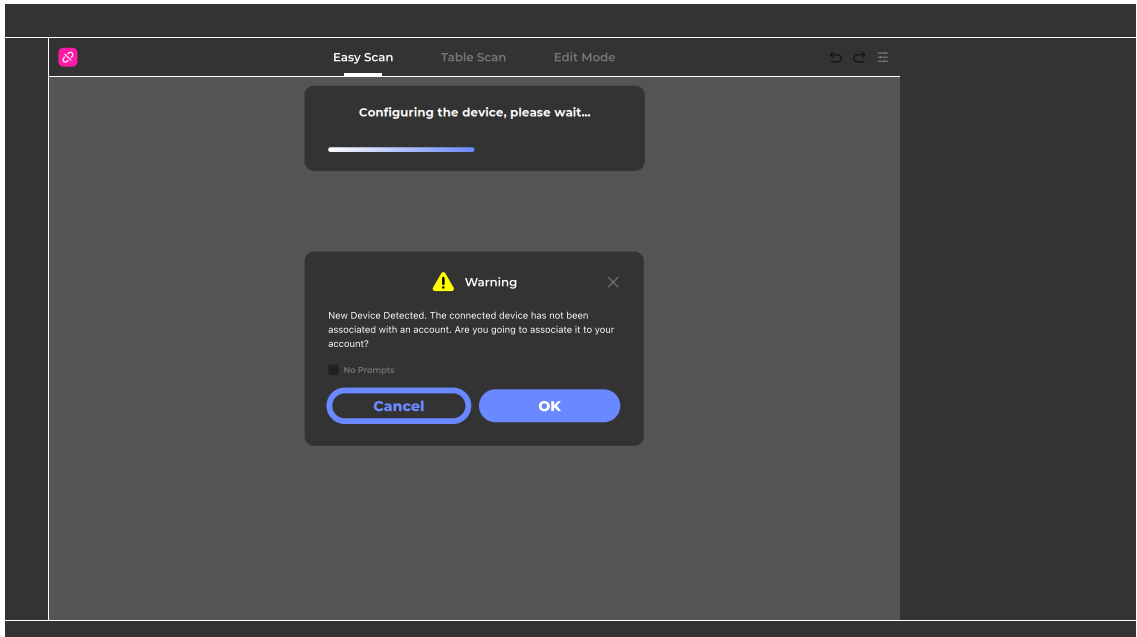
The device SN can be found at the bottom of the scanner body, then input the letters and numbers and apply to await the prompt "Import successfully".



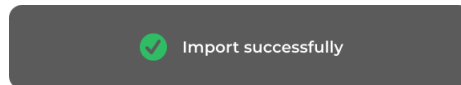


② When you download the calibration file, click OK in the pop-up box to bind the device to the current account. If you do not need to bind the device, you can simply click Cancel.

*If you log in as a guest, the device will not prompt for binding.



③ After the prompt appears, the import is successful:



P63 Preparation

Objects needing special treatment

In order to get a better scanning result, please use spray, dry shampoo, powder, etc. on the following types of objects before scanning:



①transparent objects
(glass products, plastic
bottles, etc.)



②deformable objects
(clothes, animals, etc.)



③reflective, shiny objects
(metal products,
electroplated parts, etc.)



Before



After

Preview and Adjustment

Scan Mode

Choose “Easy Scan” or “Table Scan” in the Work Mode.



Easy Scan

1

Table Scan

2

Edit Mode

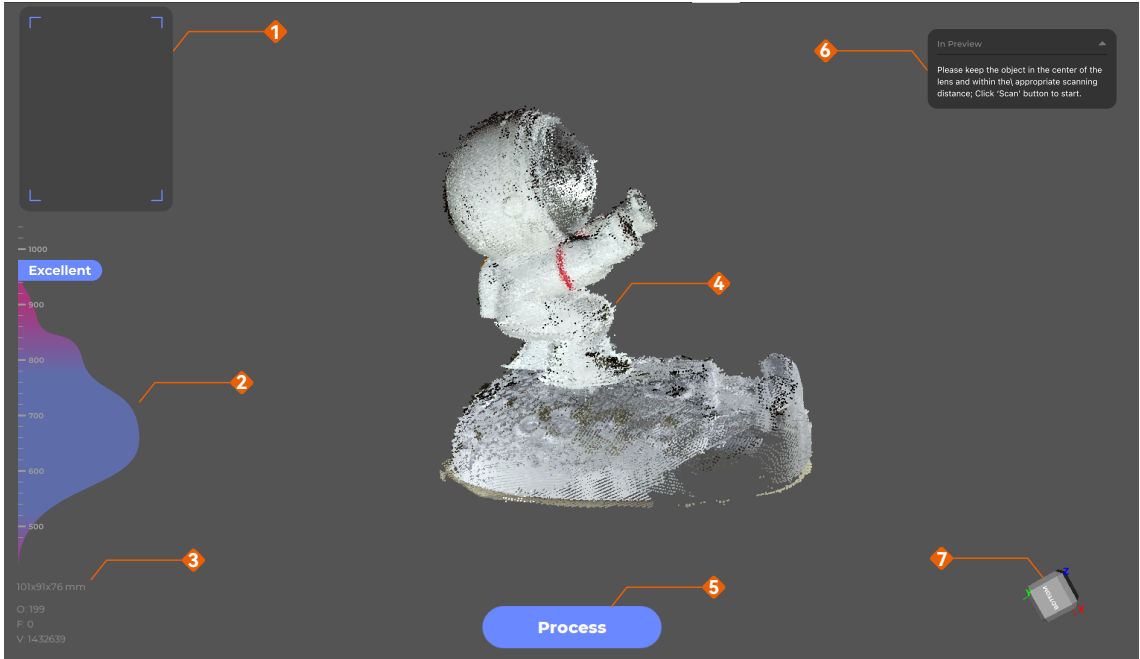


Number	Operate	Illustrate
1	Easy Scan	Free and flexible, suitable for scanning irregularly shaped objects and large objects.
2	Table Scan	It can be used with a tripod and turntable, so it does not need to hold the scanner, and is suitable for scanning small objects.

Adjust the scan parameters

Move the scanner slowly, observe the scan status in the 3D View, and adjust the scan parameters in the Editing Panel to achieve the best scan quality.

The interface description of the 3D view is as follows:



Number Operate

Illustrate

1 Camera Live

Display while scanning, view the current scanner shooting in real time, there are two live modes: texture and geometry. When the screen brightness is too low, it displays blue; when overexposed, it displays red.

Texture mode: Used to observe exposure and ensure texture quality. The following scenes are displayed when scanning

1. Texture mode

2. Check "Color Scan" in geometric mode

Geometric mode: Used to align objects to ensure that they are recognized by the scanner.

Distance
prompter

It is displayed when scanning, which is used to indicate the scanning distance.

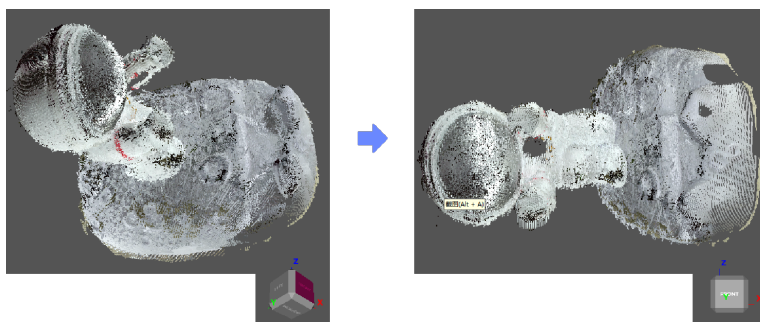
3 Data Information Scan Status: Displays information about the number of frames, objects, faces, and points of real-time scanning.
Edit Status: Displays information about the length, width, height, number of objects, number of faces, and number of points of 3D data.

4 Imaging It displays the current scanning image and the processed image.

5 Main Operation Area Action confirmation or cancellation.

6 Tips panel Used to prompt the operation method.
You can click the top ▲ to collapse the panel, and click again to open the panel. If you don't need the prompt panel, you can uncheck "Guidance Tips" in File > Settings > General > Guidance Information.

7 3D coordinate map In the editing state, click on different sides of the coordinates to view the images from different angles.
Hover over a polygon to highlight it, and click it to automatically change the imaging angle.



② Working Distance

The distance indicator on the left side of the 3D viewer can help you find the optimal working distance.



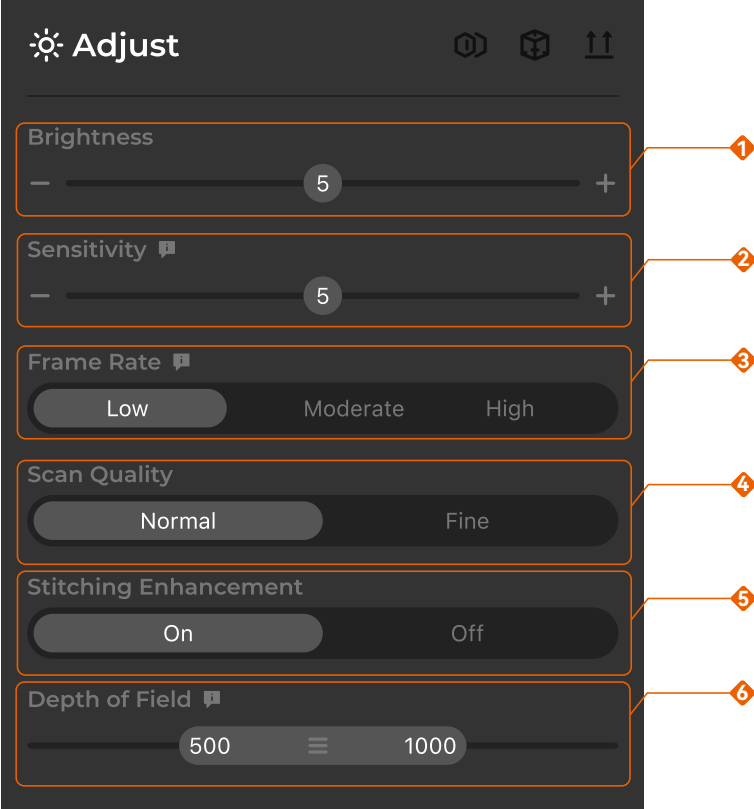
③ Locate the Object

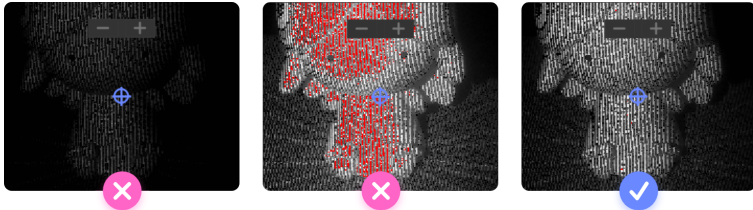
The preview window on the top right of the 3D viewer helps you locate the object. Make sure it fully exposed in the preview window.



④ Sweep parameter adjustment

According to the preview box in the upper right corner of the canvas, adjust the scan parameters



Number	Operate	Illustrate
1	Brightness	Adjust the light intensity of the scanner. When the screen brightness is too low, it displays blue; when overexposed, it displays red. 
2	Sensitivity	Controlling how sensitive the scanner is to light can affect the quality of the scanned data. The high sensitivity can improve the completeness of the acquisition, but at the same time increase the noise of the scan data, which is suitable for dark subjects; Low sensitivity is the opposite.

- | | | |
|---|-----------------------|--|
| 3 | Frame Rate | Displayed for magicSwift series devices. The higher the frame rate, the more complete the image at the same time, but the same amount of data is larger, which may cause data redundancy and occupy more memory. |
| 4 | Scan Quality | Available in Easy Scan mode. When scanning delicate objects, it is easier to get more information about the object by selecting "Fine" to scan the object. |
| 5 | Stitching Enhancement | Improves real-time frame alignment during scanning for more stable stitching. Frame rate may decrease when enabled. |
| 6 | Depth of Field | Controls the minimum working distance to the maximum working distance for scanner scanning. The default is the maximum to minimum range of the scanner, which can be modified by manually entering the value or dragging  with the left mouse button. |

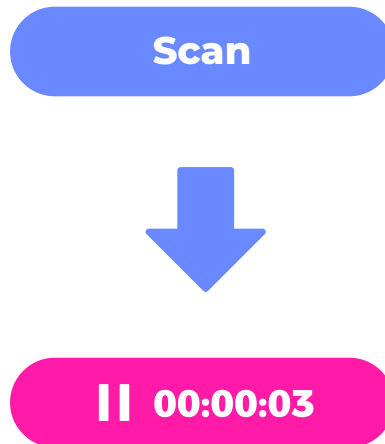
P70 Easy Scan

Scan

Adjust the scanner's position and angle to centre the target object in the preview window; check if they're kept in a proper distance by focusing on the distance indicator.

Click "Scan" on the work panel, hit the spacebar or press the start/stop button on the scanner to start scanning.

If the Countdown before scanning in Easy Scan (s) is enabled in the Quick Scan mode in the settings, the scan will start after the countdown is completed after clicking Scan.



Stop

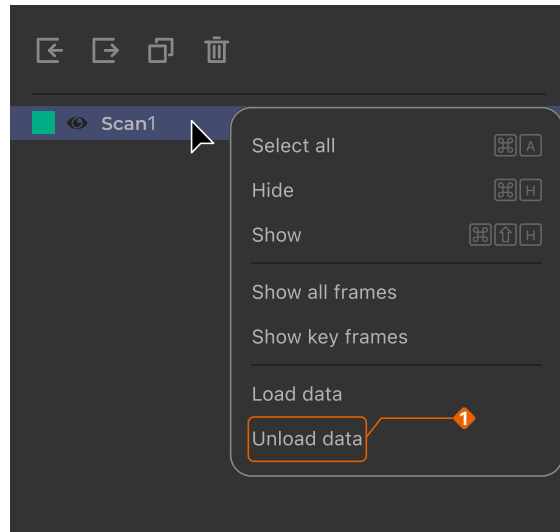
Click the red counter, hit the spacebar or press the start/stop button on the scanner to stop scanning. It's suggested to limit the single scan within 2000F.



Unload

If the scan data is too large and multiple scans are required, the scanned object can be unloaded to reduce system processing time.

In the "Data Panel" at the bottom right of the main interface, select the scanned point cloud data (hold Ctrl+Left mouse button to multi-select), click the right mouse button, and unload the data in the pop-up operation window.



Append

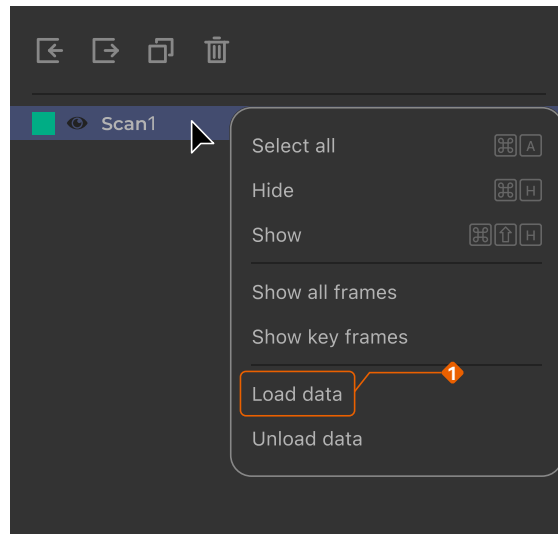
If you want to scan other areas and add a new scan, click "Append", hit the spacebar or press the start/stop button on the scanner.

Append

Load

After the scan is completed, right click to open the menu and load the data to the processed first before you mesh or edit on it.

In the "Data Panel" at the bottom right of the main interface, select the unloaded point cloud data (hold Ctrl + Left mouse button to multi-select), click the right mouse button, and load the data in the pop-up operation window.



Process

Click "Process", hit the spacebar or press the start/stop button on the scanner(supported on specific models) to go into the Edit Mode and process the scan data. You can also hit right or left arrow keys to the next or last step.

Process

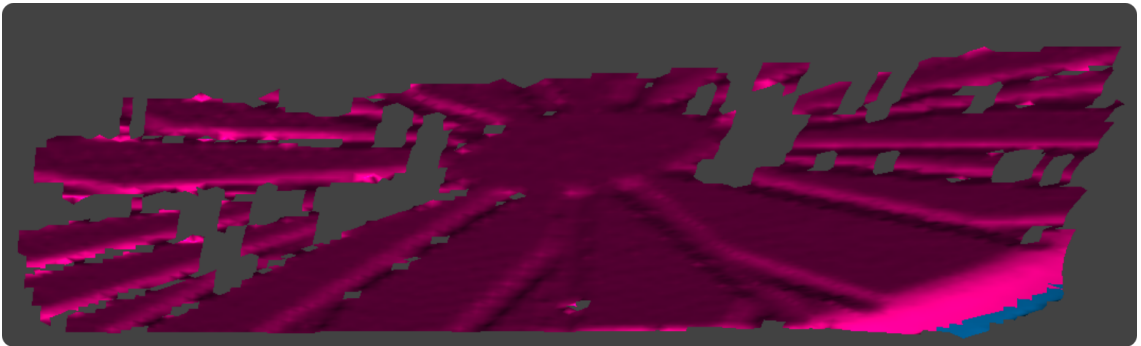
P73 Table Scan

Initial

Adjust the scanner's position and angle to centre the target object in the preview window; check if they're kept in a proper distance by focusing on the distance indicator.

Remove the object from the turntable when scanner is well positioned. Click "Initial", hit the spacebar or press the start/stop button on the scanner to scan the turntable until it turns red.

Initial



Stop Initializing

Click the red counter, hit the spacebar or press the start/stop button on the scanner to stop initializing. It's suggested to limit the single scan within 2000F.

60F*

Scan

Leave the turntable there and place the target object in the centre of it. Click "Scan", hit the spacebar or press the start/stop button on the scanner (supported on specific models) to start scanning.

Scan

last step. Click the button "1", hit the spacebar or press the start/stop button on the scanner (supported on specific models) to re-initialize.

Stop

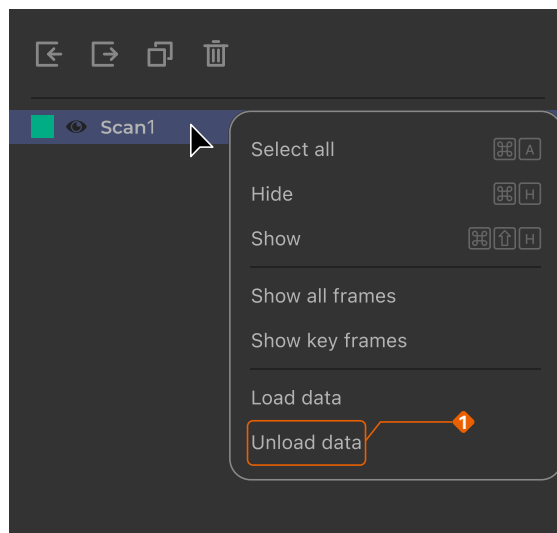
Click the red counter, hit the spacebar or press the start/stop button on the scanner to stop scanning. It's suggested to limit the single scan within 2000F.

600F*

Unload

If the scan data is too large and multiple scans are required, the scanned object can be unloaded to reduce system processing time.

In the "Data Panel" at the bottom right of the main interface, select the scanned point cloud data (hold Ctrl+Left mouse button to multi-select), click the right mouse button, and unload the data in the pop-up operation window.



Append

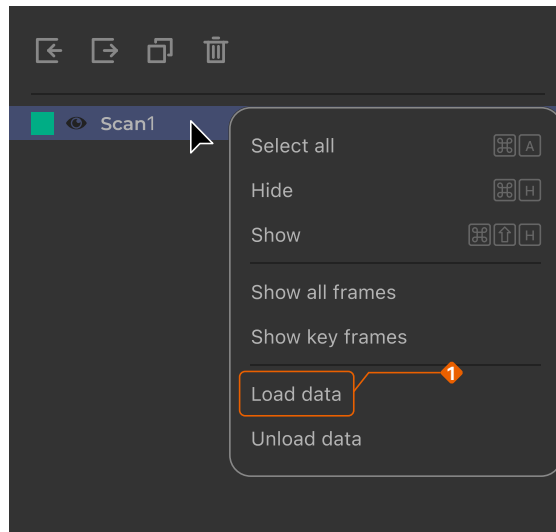
If you want to scan other areas and add a new scan, click "Append", hit the spacebar or press the start/stop button on the scanner.

Append

Load

After the scan is completed, right click to open the menu and load the data to the processed first before you mesh or edit on it.

In the "Data Panel" at the bottom right of the main interface, select the unloaded point cloud data (hold Ctrl + Left mouse button to multi-select), click the right mouse button, and load the data in the pop-up operation window.



Process

Click "Process", hit the spacebar or press the start/stop button on the scanner(supported on specific models) to go into the Edit Mode and process the scan data. You can also hit right or left arrow keys to the next or last step.

Process

Reset

Click "Reset", hit the spacebar or press the start/stop button on the scanner(supported on specific models) to initialize again. Or hit right or left arrow keys to the next or last step.

Reset