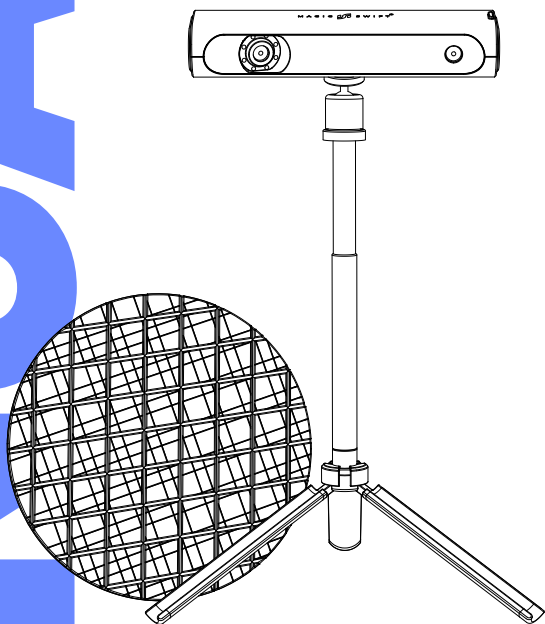


V1.1

3DMakerpro

store.3dmakerpro.com



3DMakerpro

f @3DMakerProCares

@official3DMakerPro

@3DMakerPro

https://store.3dmakerpro.com/

service@3dmakerpro.com

JimuMeta

@JimuMeta f @JimuMeta

https://www.jimumeta.com/

service@jimumeta.com



MAGICSWIFT Plus

Hardware Connection **P1**

Packing List **P3**

Computer Requirements

Minimum

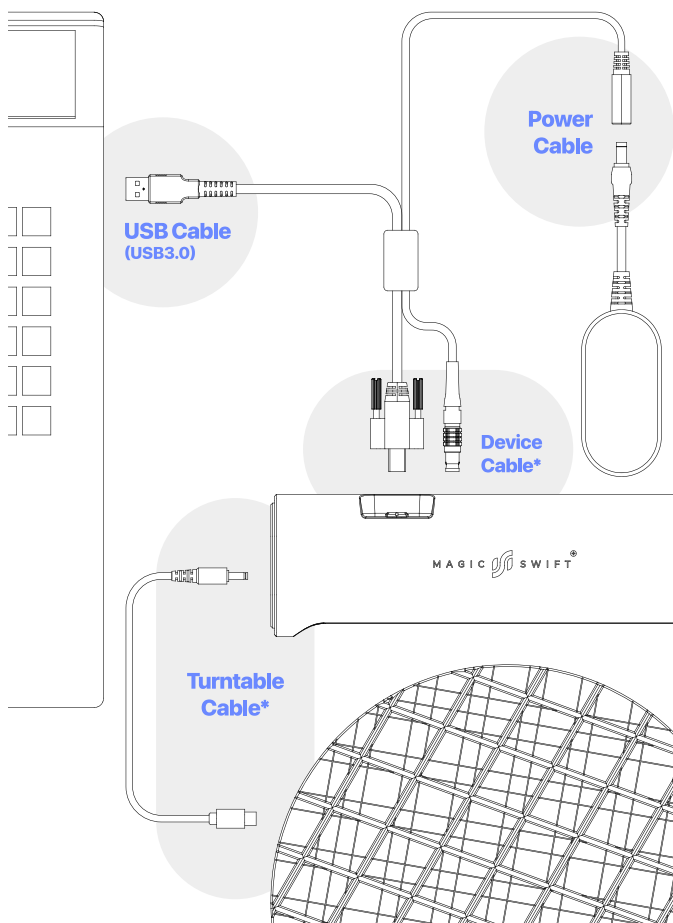
Intel Core i5 8th, 16GB RAM,
MX250 GPU with 2GB VRAM

Recommended

Intel Core i7 8th, 16GB RAM,
NVDIA1060 GPU with 4GB VRAM

P1

HARDWARE CONNECTION



Plug the **USB3.0** end into your computer's **USB3.0** port

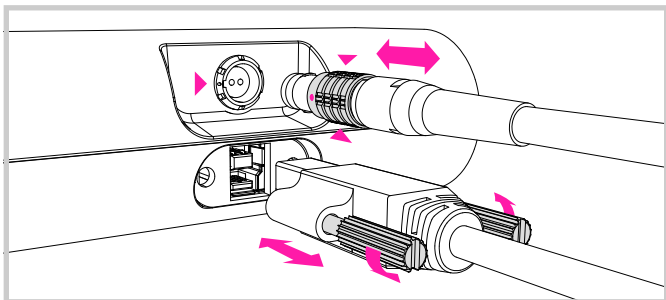
Plug the power connector into the power adapter.

The other end of the two plugs into the end of the device.

Plug the turntable cable into the side connector of the device.

P2

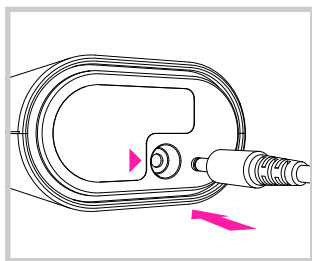
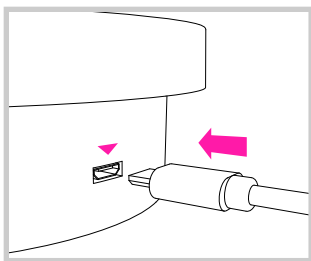
* Device Cable



Insert the power plug at the device end by aligning the raised point with the interface dot mark.

Pinch the side wall of the plug when pulling it out, and then pull it out.

* Turntable Cable

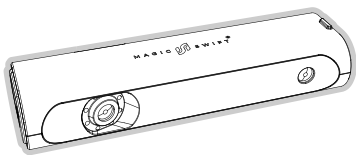


One end of the turntable cable plugs into the jack on the side of the unit.

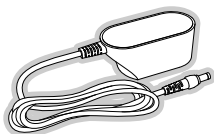
The other end plugs into the connector on the turntable.

P3

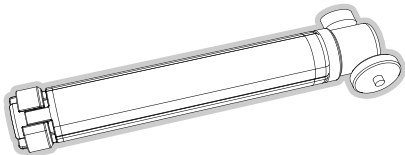
PACKING LIST



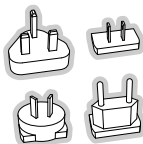
Host



Power Supply



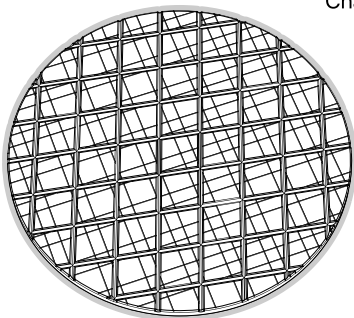
Tripod



Changeover Plug



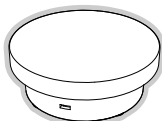
Manual



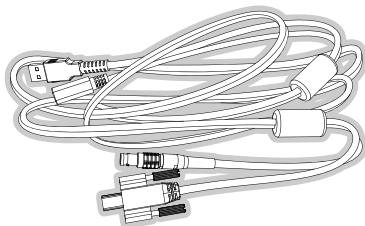
Turntable Surface



USB Drive



Turntable



Device Cable



Turntable Cable



To prevent antivirus software from blocking the driver, please uninstall the antivirus software.

V2.0

3DMakerpro

store.3dmakerpro.com



JMStudio

Software Installation	02
User Interface	05
Scanning Workflow	06
Editing	12
Export the Model	17
Shortcut Key	18



3DMakerpro

f @3DMakerProCares

@ @official3DMakerPro

▶ @3DMakerPro

e <https://store.3dmakerpro.com/>

✉ service@3dmakerpro.com



JimuMeta

▶ @JimuMeta

f @JimuMeta

e <https://www.jimumeta.com/>

✉ service@jimumeta.com

02

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 from the attached USB drive or by visiting our website.

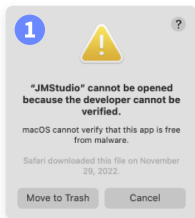
Follow the steps below to install the software.

For macOS

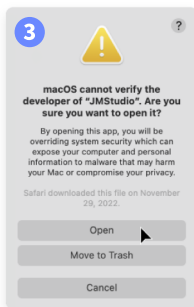
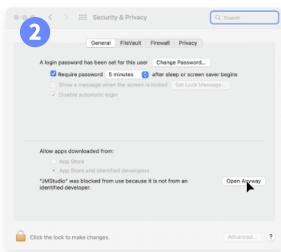
① Double-click the application file and drag it to the Applications folder.



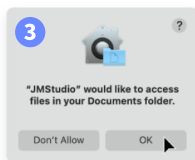
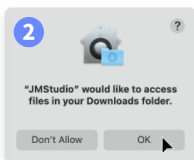
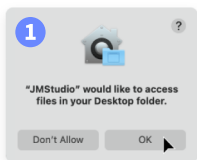
② When this error occurs, please go into your Security & Privacy, check the App Store and Identified Developers radio button, and click Open Anyway.



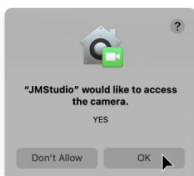
03



③ Allow JMStudio to access files in your Desktop folder.



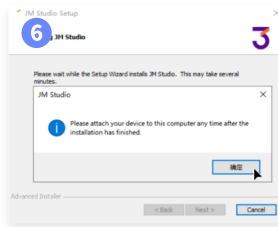
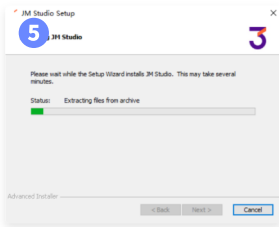
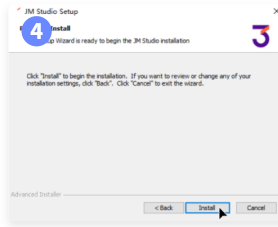
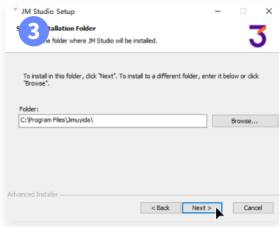
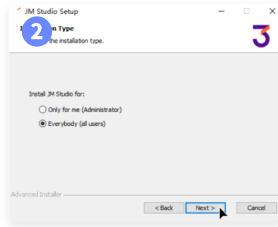
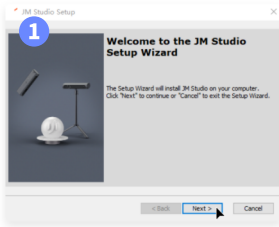
④ Run JMStudio, allow it to access the camera, now the installation is completed.



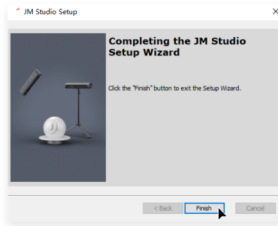
For Windows

① Click on the application file, follow the installation wizard and click Next to install the software.

04



②Click Finish to complete the software installation.



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

05

User Interface

The user interface consists of the following parts:

- ① Title Bar
- ② Tool Bar
- ③ Work Mode
- ④ 3D Viewer
- ⑤ Work Panel
- ⑥ Data Panel
- ⑦ Status Bar



06

Scanning Workflow

Preparation

Preparation for special objects

Please choose the right scan mode according to the size of the object.

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

In Easy Scan, you can operate the scanner flexibly to scan large sized objects in irregular shapes; in Table Scan, the scanner works with tripod and turntable to scan small sized objects and free your hands.

07

Please choose the right scan mode accordingly, and keep a proper working distance as follows.

	Easy Scan	Table Mode
Whale	200-2000mm(wide-core) 15-2000mm(micro-core)	200-500mm(wide-core) 15-300mm(micro-core)
MagicSwift Plus	200-2000mm	200-500mm
MagicSwift	200-2000mm	200-500mm
CR-Scan Lizard	15-1500mm	15-300mm
CR-Scan 01	200-2000mm	200-500mm

Choose "Easy Scan" or "Table Scan" in the Work Mode.



Slam Mode

Choose "Geometry Mode" if the scanned object is bumpy and has great geometric features; while choose "Texture Mode" when scanning objects with vivid colors, patterns and textures.

Please choose the right slam mode for your target objects.



Geometry



Texture

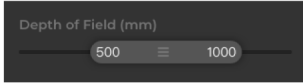
Working Distance

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

08

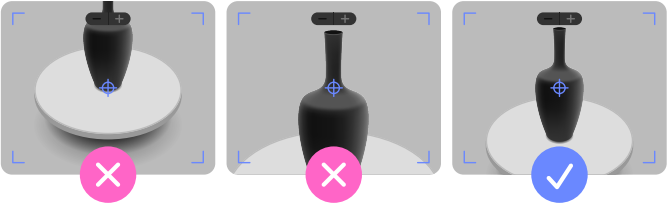


Set the depth range of data acquisition in the Work Panel_Adjust_Depth of Field.



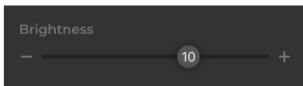
Locate the Object

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.



Brightness

Use the slider to adjust the brightness to a proper level in the Work Panel_Adjust_Brightness.



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.

Scan

Stop

Click the red counter, hit the spacebar or press the start/stop button on the scanner to stop scanning.

600F

Append

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

Append

Process

Click "Process", hit the spacebar or press the start/stop button on the scanner 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

10

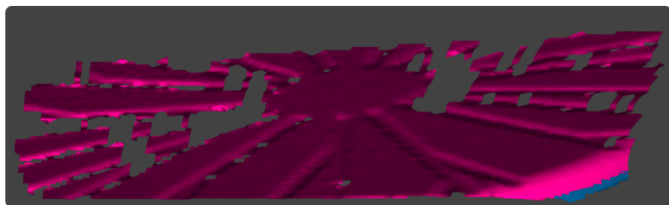
Table Scan

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 empty 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.

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 to start scanning.

Scan

11

If you find the initialization result unsatisfactory, can also hit right or left arrow keys to the next or last step. Click the button "1", hit the spacebar or press the start/stop button on the scanner to re-initialize.

1

Stop

Click the red counter, hit the spacebar or press the start/stop button on the scanner to stop scanning.

600F

Append

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

Append

Process

Click "Process", hit the spacebar or press the start/stop button on the scanner 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 to initialize again. Or hit right or left arrow keys to the next or last step.

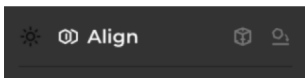
Reset

12

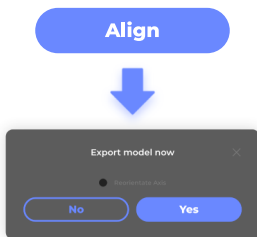
Editing

Align

Go into "Align" in the Work Panel.

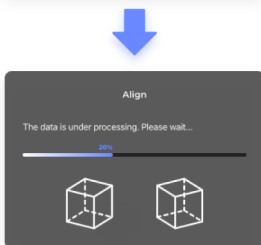
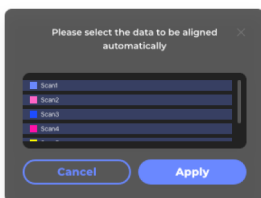


Click "Align" on the 3D viewer and select the align mode in this pop-up window.



Auto Align

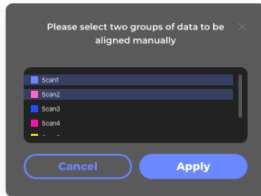
Select the scans in this pop-up window to align and click "Apply" to start the auto align.



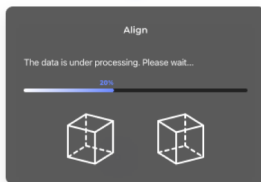
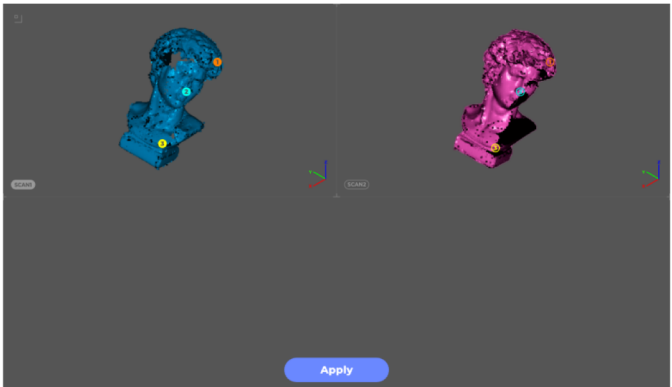
13

Manual Align

Select two scans in this pop-up window to align, and click "Apply". The first selected is the reference data by default.



With three pairs of mark points created, right-click to drag each pair to the place you want until they are matched.



14

Click "OK" to apply the alignment.

OK

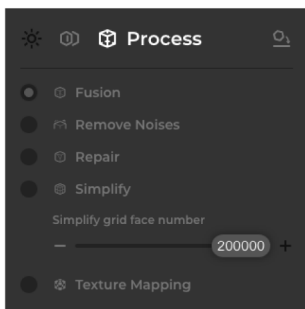
Click "Return" to reposition the mark points and align the two scans.

Return

Process

Check the processing steps you need for your point cloud data in the Work Panel_Process; click "Process" on the 3D viewer.

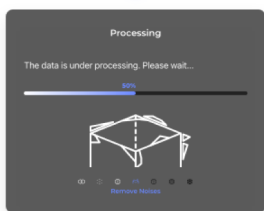
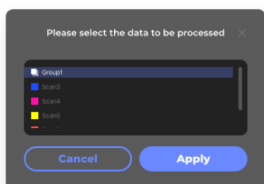
Note: Here "Texture Mapping" refers to the texture capturing by the scanner itself. If you need to do "External Texture Mapping", please uncheck this step.



Process

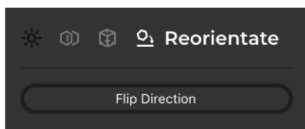
Select the scans in this pop-up window and click "Apply" to start the data processing.

15



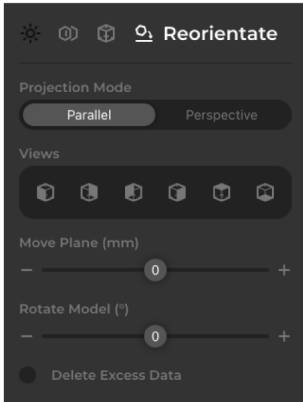
Reorientate

Reorientate your 3D model by going into the work panel_Reorientate. Three mark points will be automatically created to generate a plane; drag the points to reposition them but not put in a line; flipping direction in the work panel_Reorientate; click "Reorientate" on the 3D viewer.

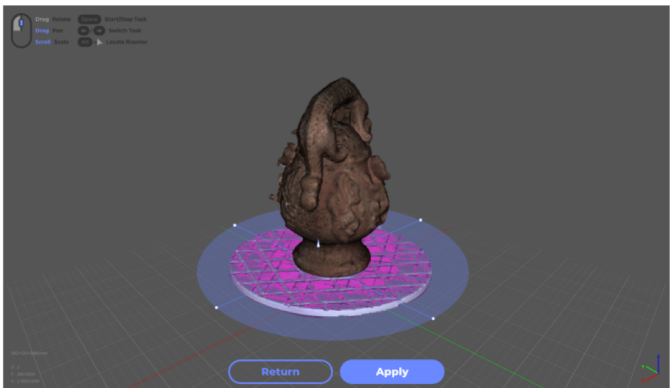


16

In the Work Panel_Reorientate, there are other settings such as changing the view types, moving the plane, rotating the model and deleting the highlighted excess data below the plane.



Drag four anchor points to reposition the plane, and drag the arrow in the middle to move the plane vertically; click "Apply" if you are satisfied.



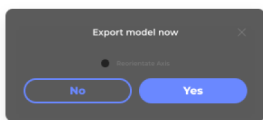
17

Export the Model

Click "Export" in the Title Bar_File or the export icon in the Data Panel to export the model.



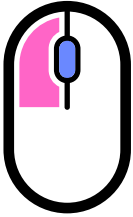
Click "Yes" in the pop-up, will go to reorientate the model if checking "Reorientate Axis".



JM Studio now supports model exported in obj, stl and ply format, stay tuned for more available formats.

18

Shortcut Key



Drag

Rotate Model

Drag

Pan Model

Scroll

Scale Model

Windows

MacOS

Drag

Drag

Rotate View

Drag

Drag

Pan View

Scroll

Scroll

Scale View

Ctrl + **↑**

⌘ + **↑**

Enlarge View

Ctrl + **↓**

⌘ + **↓**

Reduce View

Space

Space

Start/Stop Task

← / **→**

← / **→**

Switch Task

Alt + **Click**

⌘ + **Click**

Locate Rcenter

For Edit Mode

Windows

Alt + Drag**Alt** + Drag**Ctrl** + Drag**Ctrl** + **Alt** + Drag**Ctrl** + **A****Ctrl** + **R****Ctrl** + **C**

MacOS

⌘ + Drag**⌘** + Drag**⌘** + Drag**⌘** + **⌘** + Drag**⌘** + **A****⌘** + **R****⌘** + **C**

Rotate Object

Pan Object

Select Object

Deselect Object

Select All

Inverse

Clear Selection