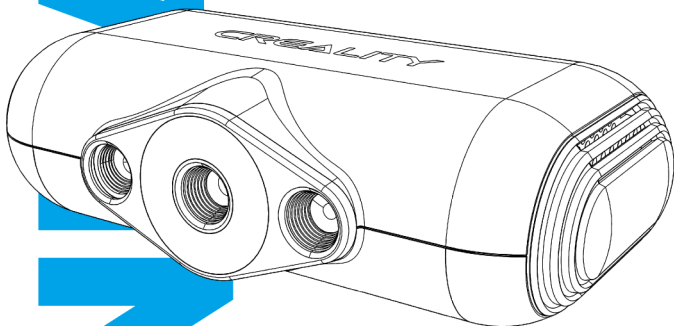


V1.0

CREALITY



MANUAL

CR-Scan Lizard

Packing List **01**

Hardware Connection **02**

Install and Launch Software **04**

Select Scanning Mode **06**

Scanning in Turntable Mode **07**

Scanning in Handheld Mode **12**

Data Editing **14**

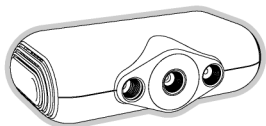
Shortcut Key **19**

Download latest **CRStudio** from
<https://www.creality.com/download>



01

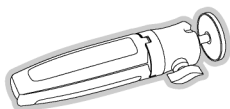
PACKING LIST



Host



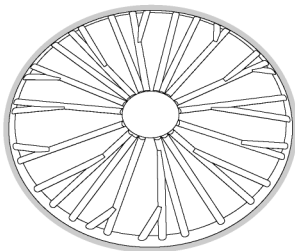
USB Drive



Tripod*



Turntable*



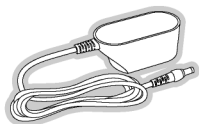
Turntable Surface*



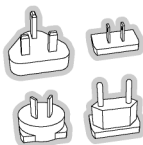
Manual



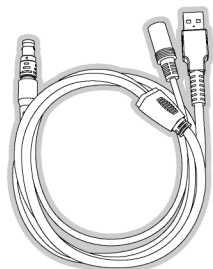
Turntable Cable*



Power Supply



Changeover Plug

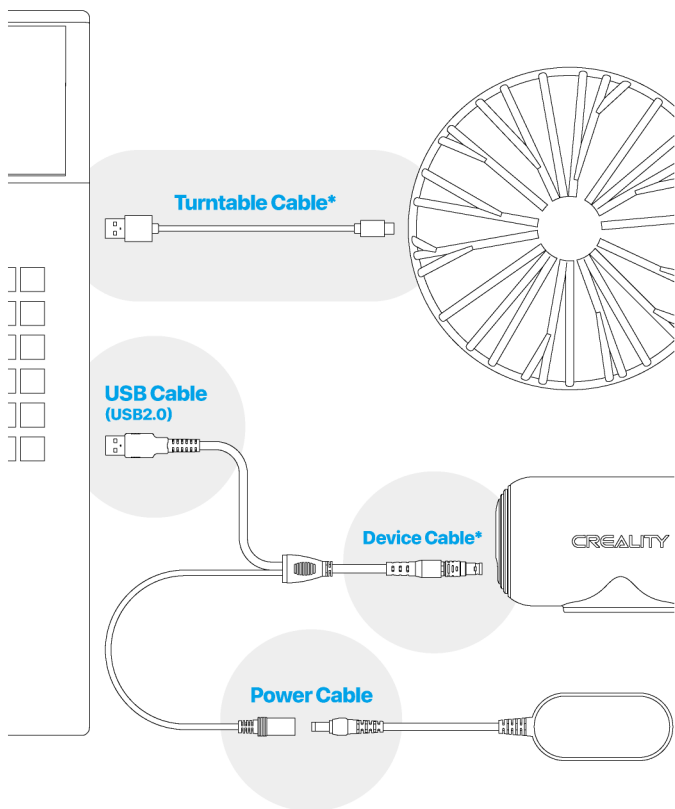


Device Cable

* Not included in the base package.

02

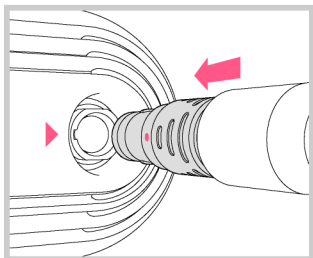
HARDWARE CONNECTION



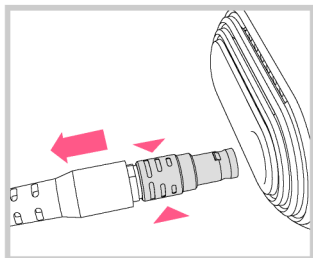
One end of the device is plugged into the navigation plug, and the other side is plugged into the power cord and computer USB 2.0 or above port respectively.

03

* Device Cable

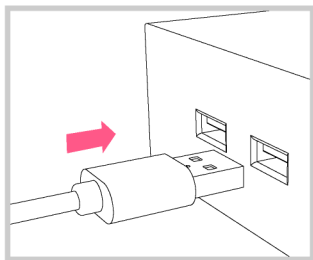
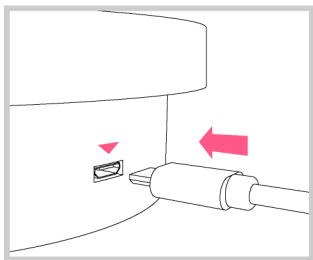


Align the airline plug of the device cable with the notch of the device jack.



To unplug the cable, press and hold the position shown in the figure and pull out the cable directly.

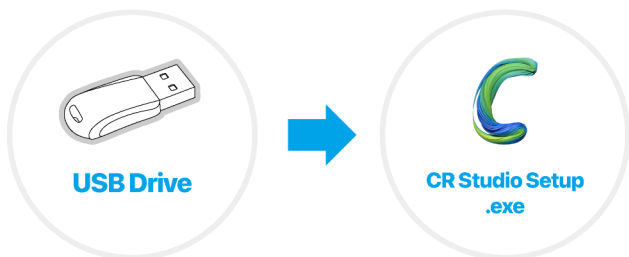
* Turntable Cable



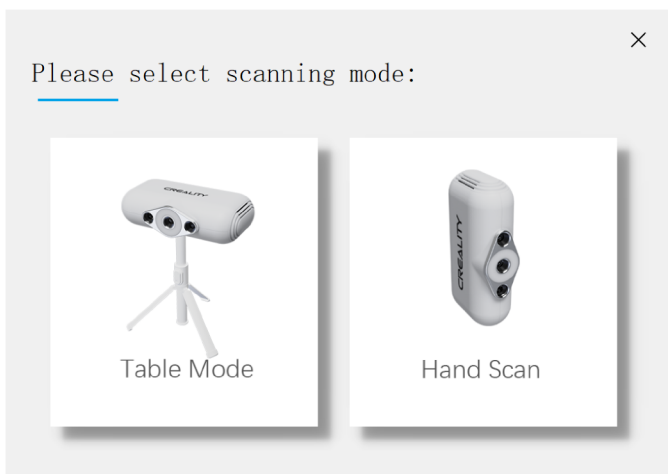
The turntable power cord can be plugged into the computer through usb power supply, or use the phone charger for its power supply.

04

INSTALL & LAUNCH SOFTWARE



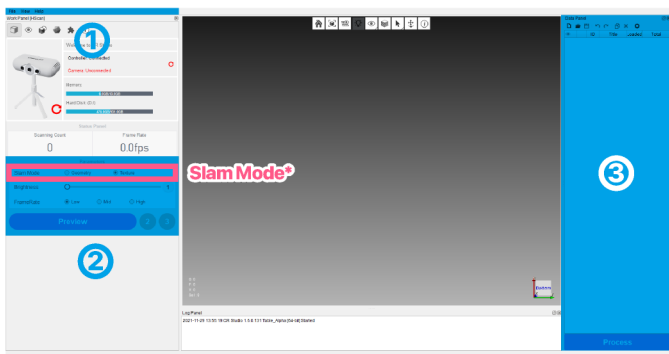
Run program "CR Studio Setup.exe".



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

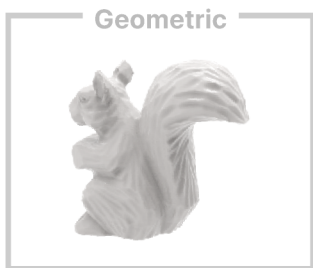
05

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



1 Menu bar **2** Functional Area **3** Data Management Area

* Slam Mode



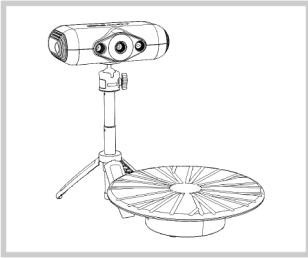
Only geometric features are recognized, ring flash is not activated.



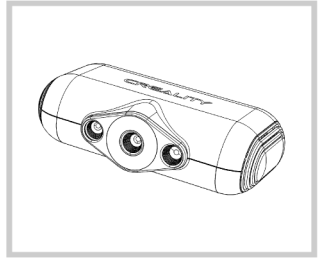
Automatic recognition of both geometric and textural features. (Recognition of texture features activates the ring flash)

06

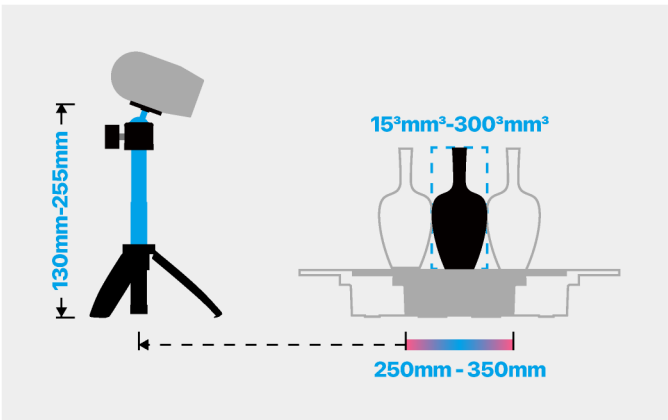
SELECT SCANNING MODE



Turntable mode can fully automatic scanning of objects around 15^3mm^3 - 300^3mm^3 .



Handheld mode allows flexible scanning of objects of different sizes.



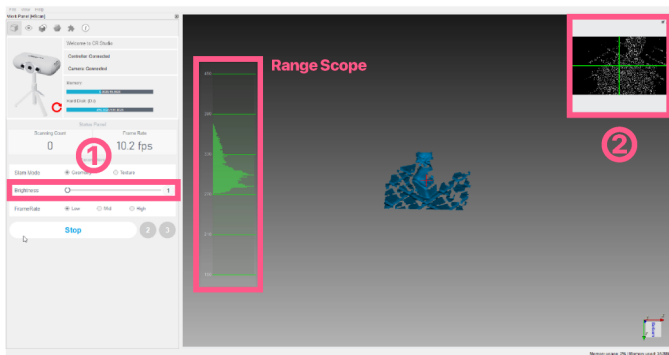
Adjust the distance and angle between the scanner and the turntable so that the object and the turntable are in the center of the 3D view and the object can be completely covered.

07

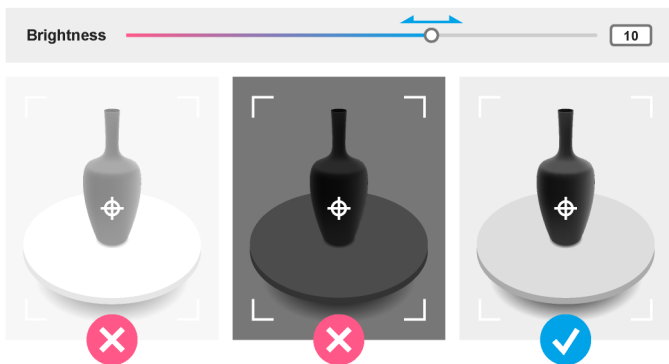
SCANNING IN TURNTABLE MODE

Step1

Preview

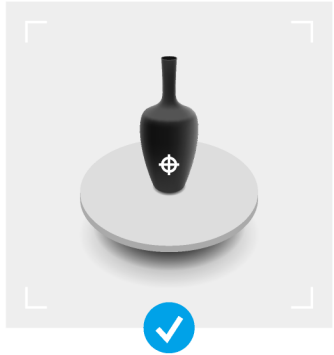


Aim the camera at the scanned object.



1 Pull the brightness adjustment slider to make the brightness appropriate.

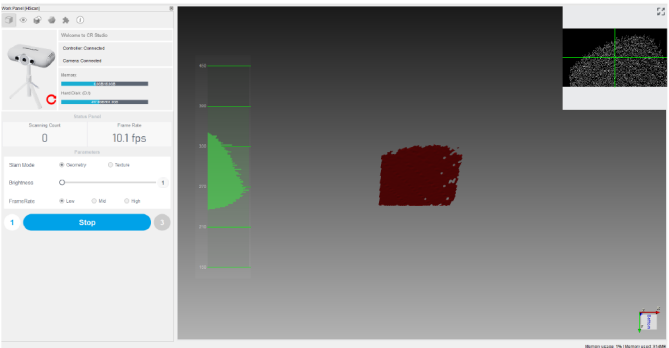
08



2 Keep the area around the turntable free of debris.

Step2

Initial



Scanning of empty turntable, automatic positioning of turntable plane position.

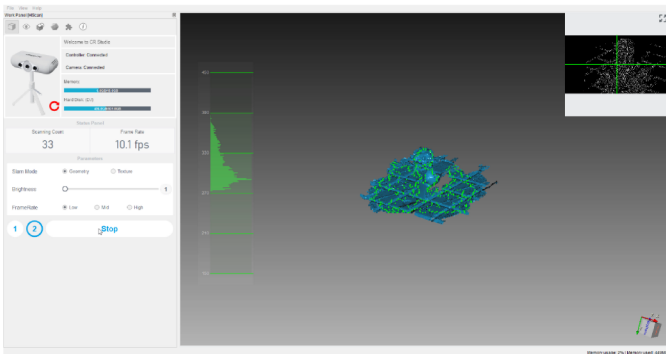
If the turn table turns red, the initialization is successful.

(Usually initialization only takes 1-2S)

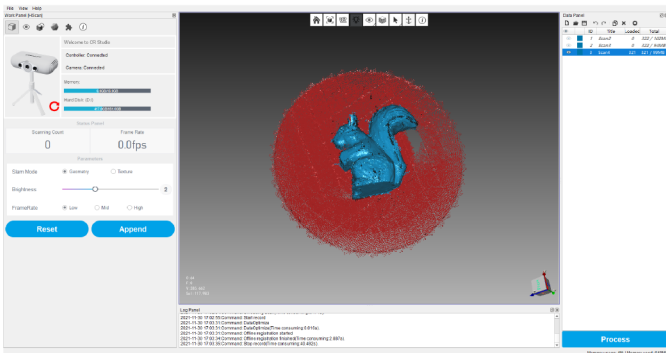
09

Step3

Scan



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



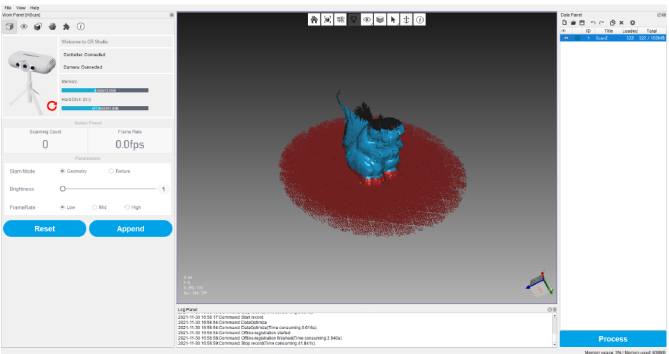
10

Step4

Append

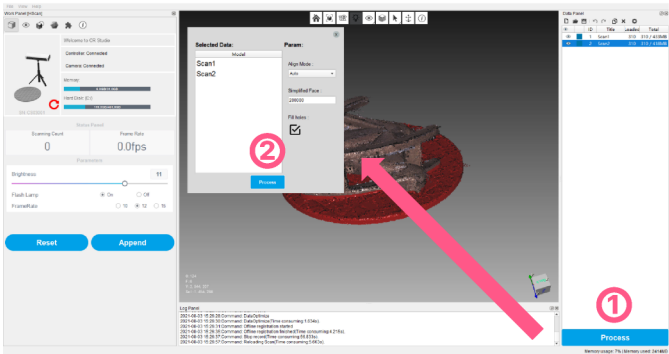
Scanning the second posture

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.



Step5

Process



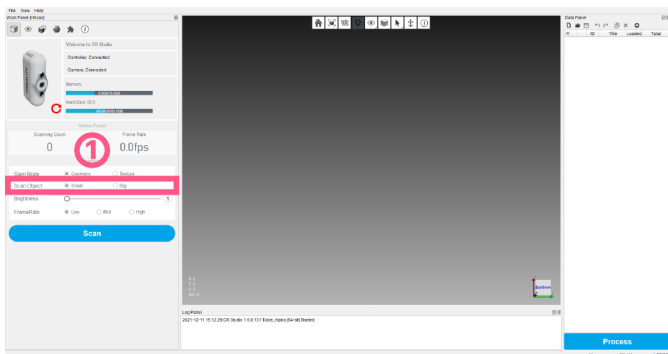
Select scanned data for automatic processing.

12

SCANNING IN HANDHELD MODE

Step1

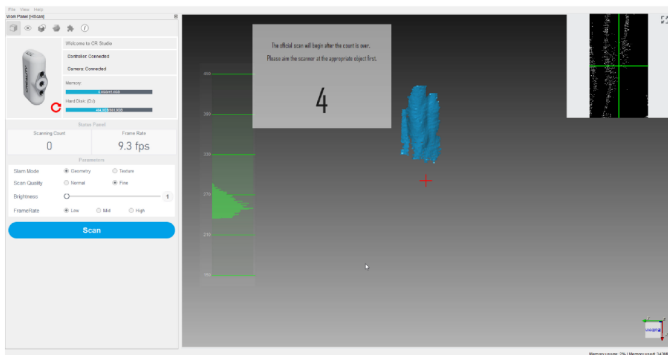
Set "Scan Object"



1 Small: $\leq 500\text{mm}^3$ Object Big: $> 500\text{mm}^3$ Object

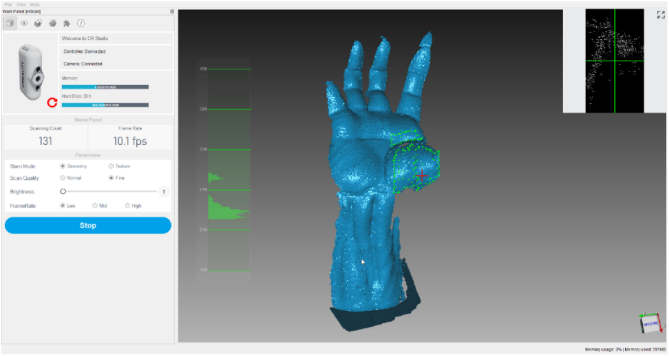
Step2

Scan



When previewing the countdown, focus on the object and keep a good angle.

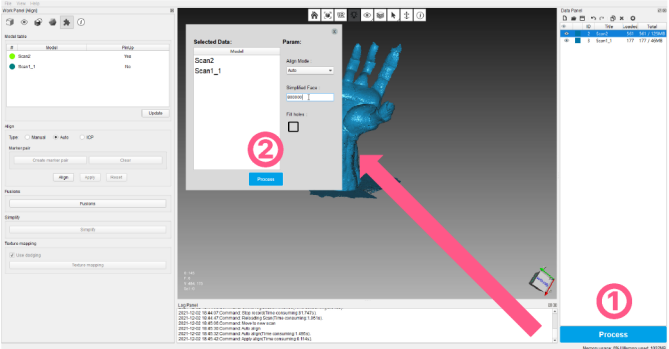
13



When scanning, try to keep the maximum scanning area to move. After a scan is lost, you can perform a global power-off renewal scan by scanning the previously scanned position.

Step3

Process

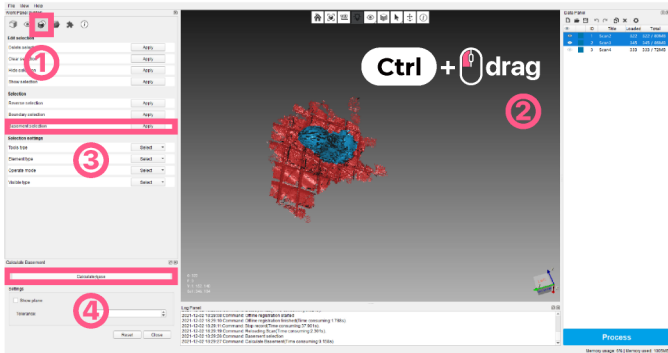


Click "process" button to complete the scan and start fully automatic data processing.

14

DATA EDITING

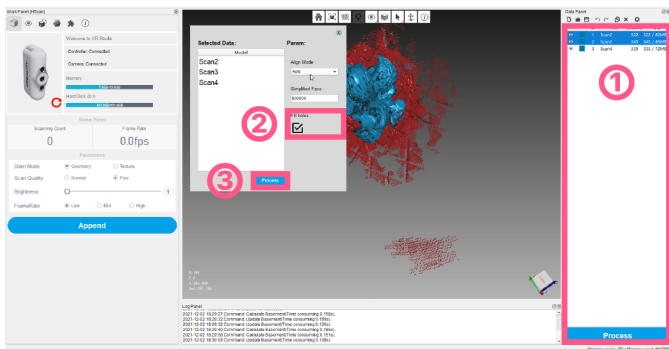
Step1 Remove The Base*



- 1 Enter edit mode.
- 2 Hold down the ctrl key, hold down the left mouse button and drag to check the location of the two bases to make them red.
- 3 Click on Basement selection, click on Calculate base.
- 4 Adjust Tolerance, you can adjust the height of the reddening.

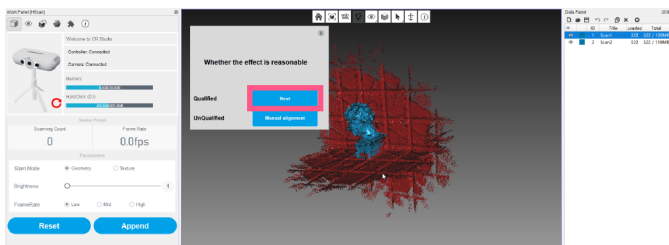
* skipping this step in handheld mode.

Step2 Start Automatic Processing



- 1 Select scanned data for automatic processing.
- 2 Complete model selection to fill the hole.
Open model not selected.
- 3 Automated processing whether to automatically fill holes.

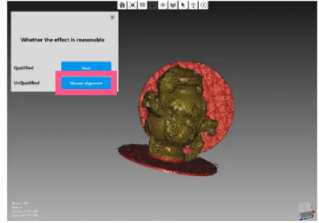
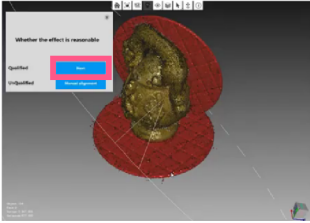
Step3 Automatic Alignment



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

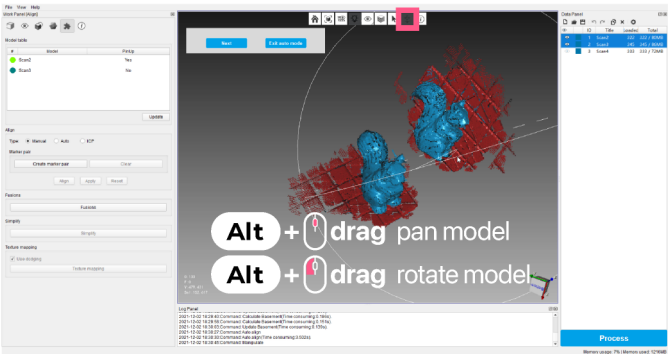
16

Step4 Manual Alignment



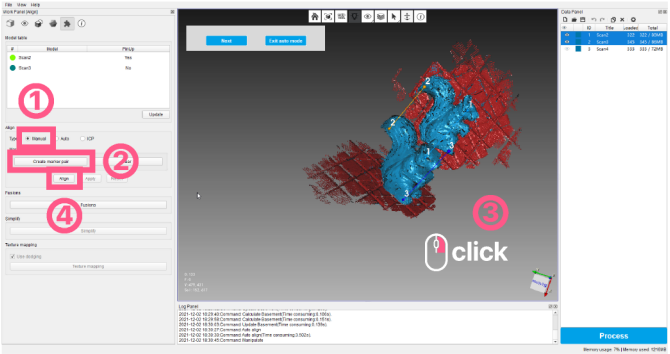
Auto-alignment Success, click Next, go to Data Processing.

Auto-alignment failure, enter manual alignment mode.



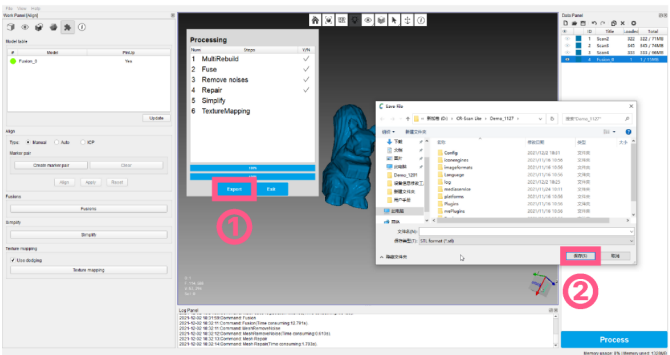
In manual alignment mode, drag the models of different poses apart and adjust the angle.

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To start manual point selection, first select manual mode, then create the same point pair, then right mouse button to select points. Select at least 3 pairs of points.

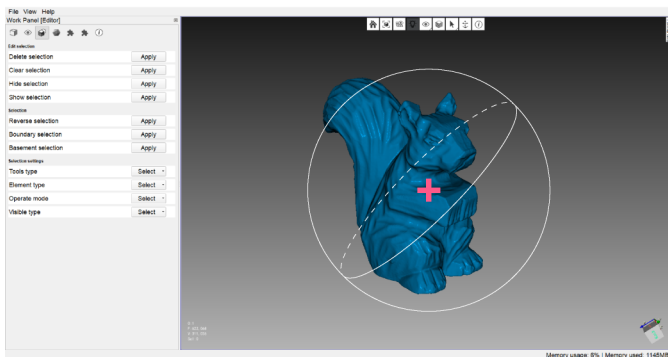
Step5 Complete Processing




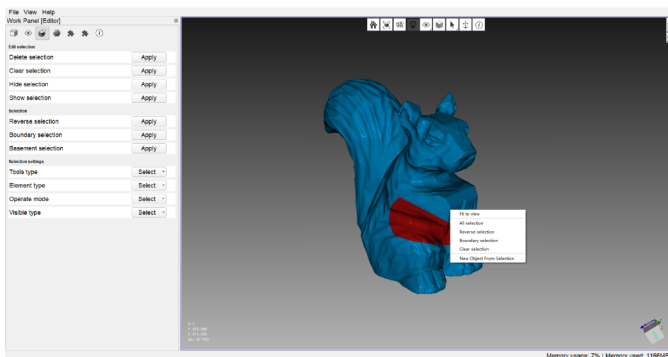
Automatic completion of all model processing and export of results data.


18

Step6 Edit Model




Alt +  click locate model rotation center

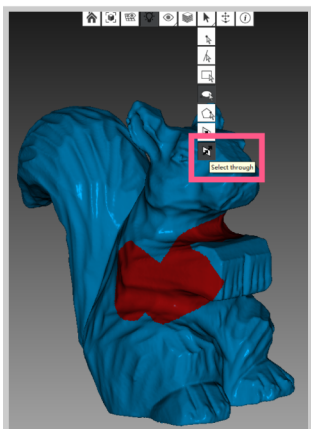


Ctrl +  drag select the edit area on the model

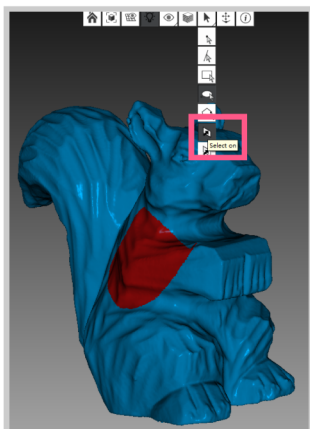
Del delete selected area

 click edit selected area

19



Selected area penetration.



Selected surface area.

Shortcut Key



drag rotate model

drag pan model

scroll scale model

Shift + **S**

start/stop acquisition

Alt + **click**

locate model rotation center

align mode

Alt + **drag** pan model

Alt + **drag** rotate model

click
create marker pair

edit mode

Ctrl + **drag**

select model

Ctrl + **Alt** + **drag**

deselect model