



# CREALITY CR-Scan 01 3D Scanner Set-400-900mm Scanning Range User Manual

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CREALITY CR-Scan 01 3D Scanner Set-400-900mm Scanning Range User Manual



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## Download the Software

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Home > Software & Firmware > Software

Creality Print (FDM Slicer)

HALOT BOX (Resin Slicer)

Creality Slicer (FDM Slicer)

CR Studio (Scan)

CR Studio (Scan)

CR Studio (Scan)

CR Studio is a self-developed scanner software for CR-Scan 01 by Shenzhen Creality 3D Technology Co., Ltd. This software comes with powerful model processing capabilities. It has two modes: turntable and handheld, and can export

Required OS

- Windows 10 64bit, 8GB RAM above and 2G graphics card memory above.
- Above Mac OS Big Sur.

System: All

Search by keyword

Search

Version History

Windows

- V2.2.0
  - CR\_Studio\_v2.2.0.0010.exe
2022-06-15
Description
- V1.8.0
  - CR\_Studio\_1.8.0.046.exe
2022-06-15
Description
- V2022.5.19.0020 (Lizard)
  - CR\_StudioSetup\_2022.5.19.0020.exe
2022-06-15
Description
- V1.7.5.086
  - CR\_Studio-V1.7.5.086.exe
2022-01-18
Description

Fold

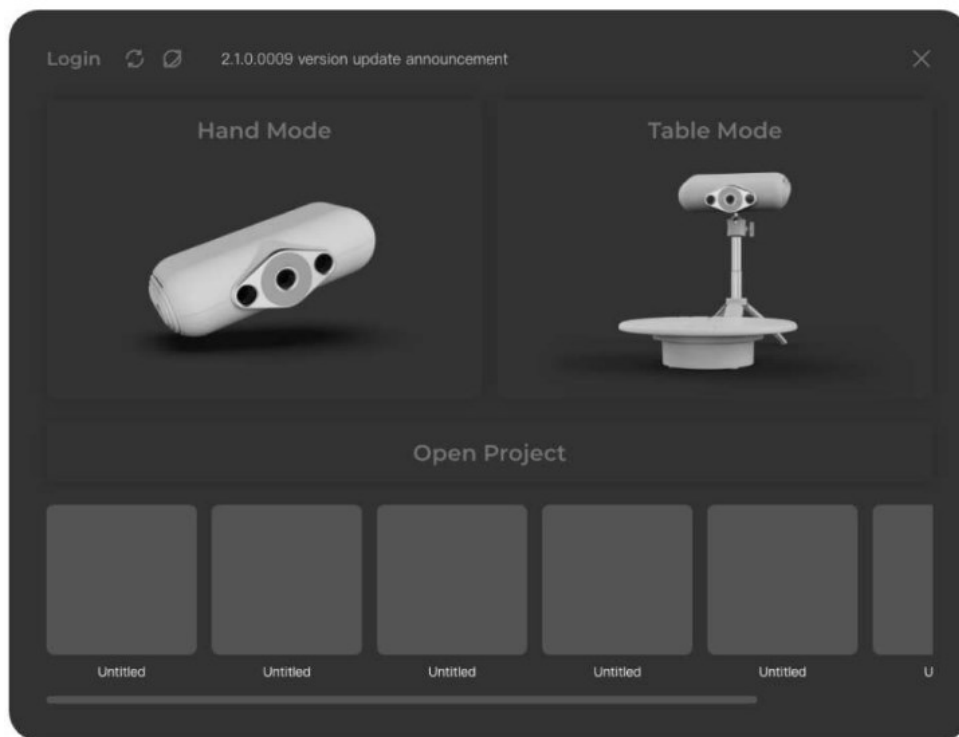
Mac

- V2.2.0
  - CR\_Studio\_v2.2.0.2.0007.dmg
2022-06-30
Description
- V1.8.0
  - CRStudio\_1.8.0.046.dmg
2022-06-15
Description
- V2022.5.19.0020 (Lizard)
  - CRStudio\_2022.5.19.0020.dmg
2022-06-15
Description
- V2021.12
  - CR\_Studio-V2021.12.dmg
2022-01-18
Description

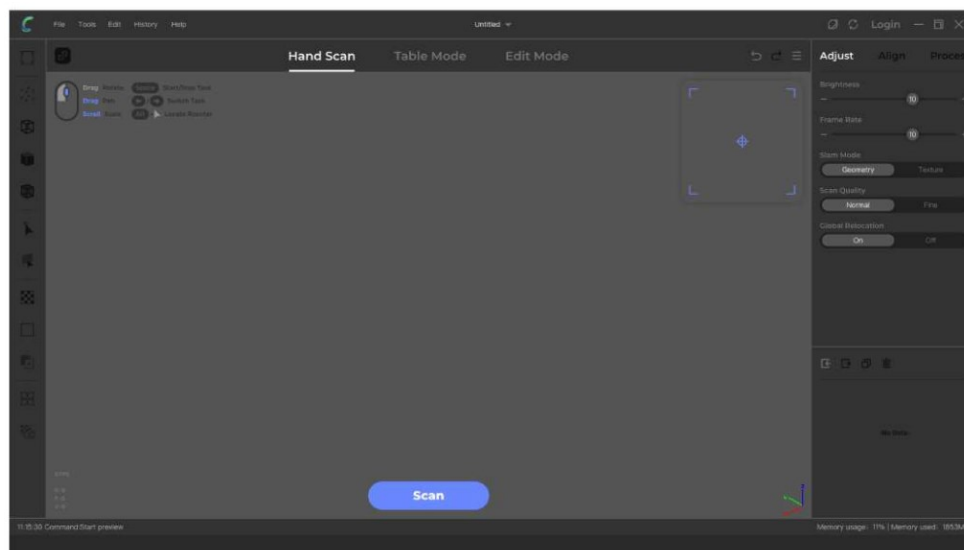
Fold

## Launch the Software

The interface of the launching process

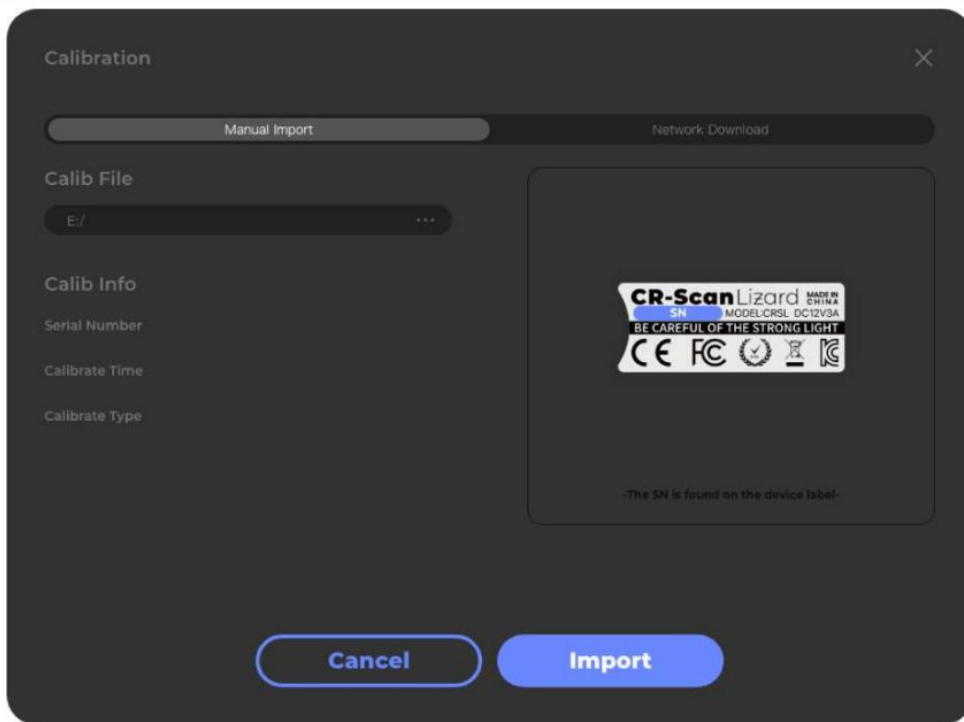


The main interface of the software



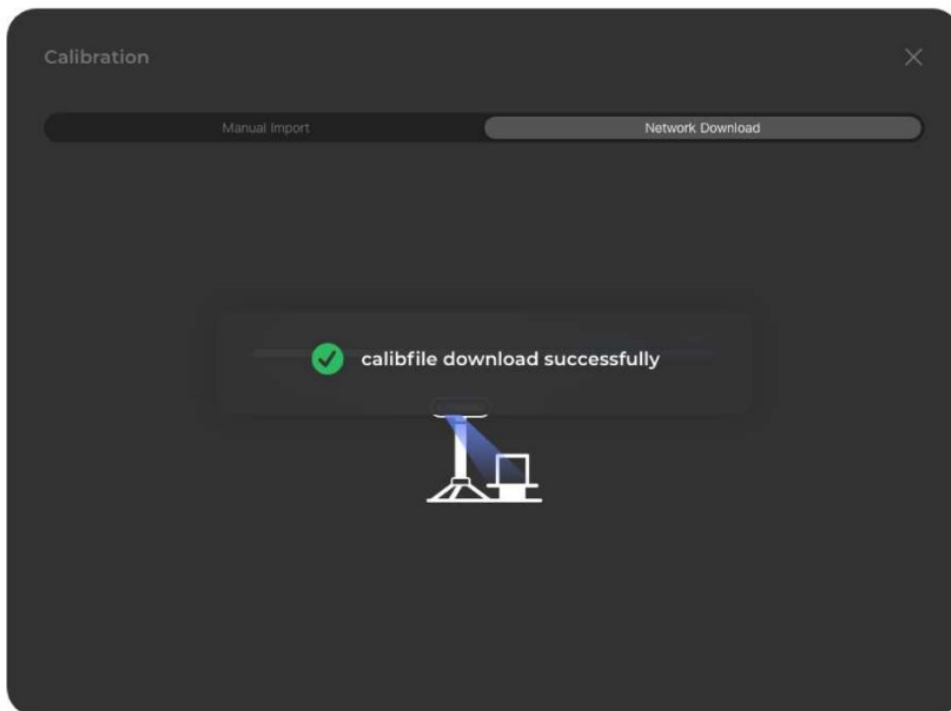
## Import the calib File

Click "File" in the menu-find "Import Calib".



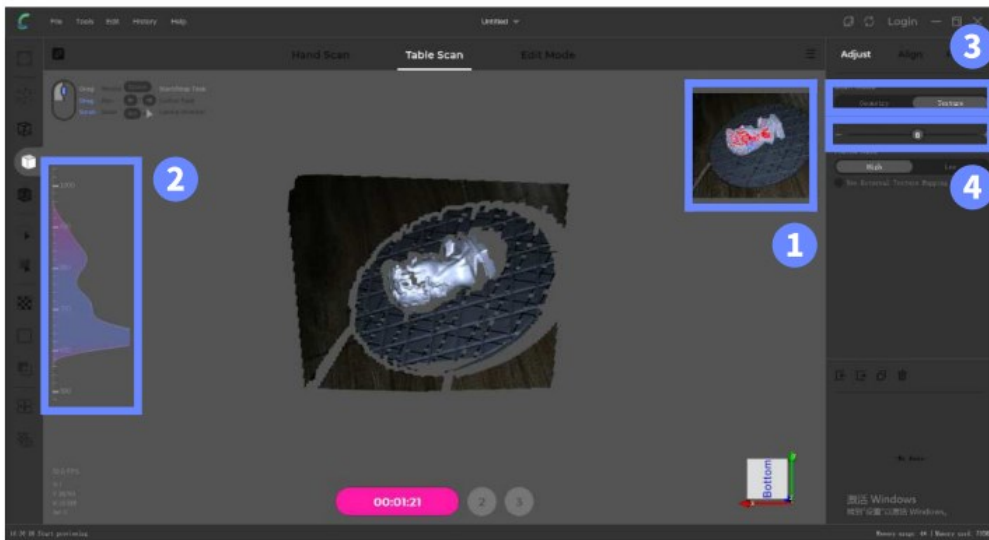
**Windows** Chose "Network Download"-click "import".

**Mac Os** Chose "Network Download"-input the SN of the device -click "Apply and "import".

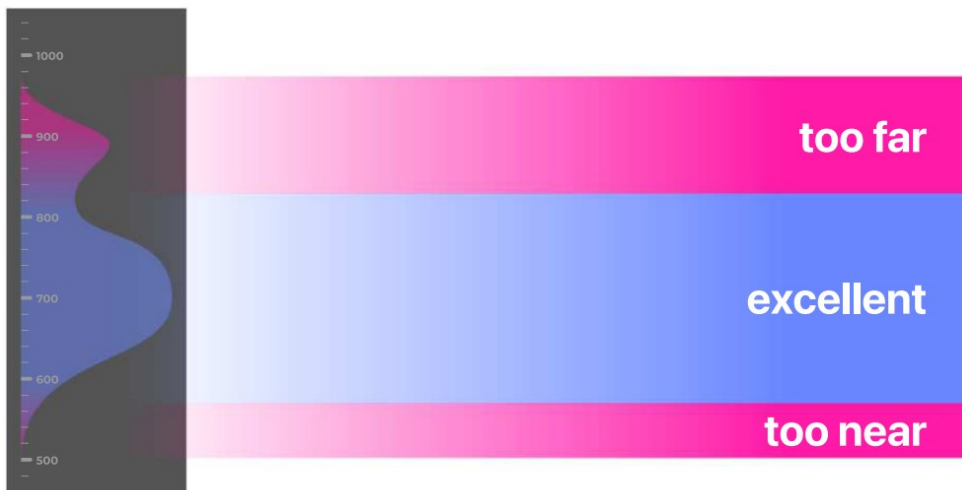


## In the Turntable Mode

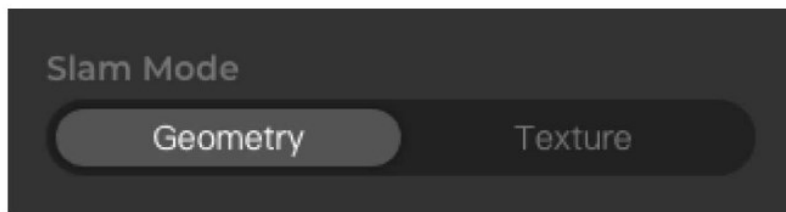
### Step 1: Preview



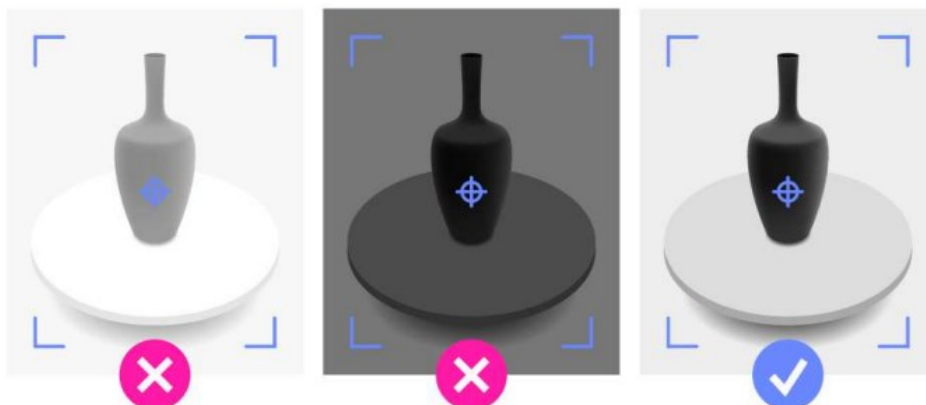
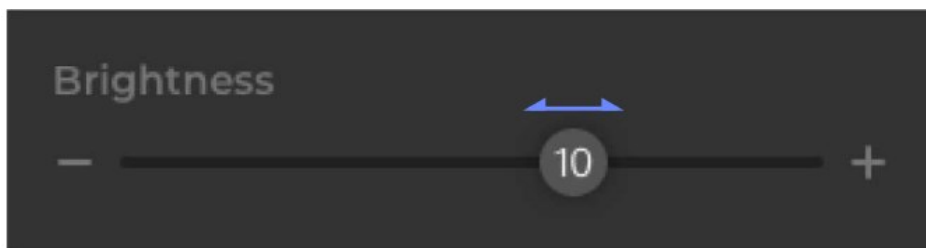
1. Adjust the scanning angle and the distance between the turntable and the scanner to see the object in the center of the 3D view. For CR-Scan 01, the distance should be kept within 600-800mm. For CR-Scan Lizard, the distance should be kept within 300-400mm. Attention: the tripod should be extended to the highest level.
2. The ruler on the left side shows the scanning distance you keep. And the waveform represents whether the distance is appropriate or not.



3. Choose the scan mode between geometry and texture.  
It's suitable to scan objects with rich geometric features.  
It's suitable to scan objects with vivid textures.



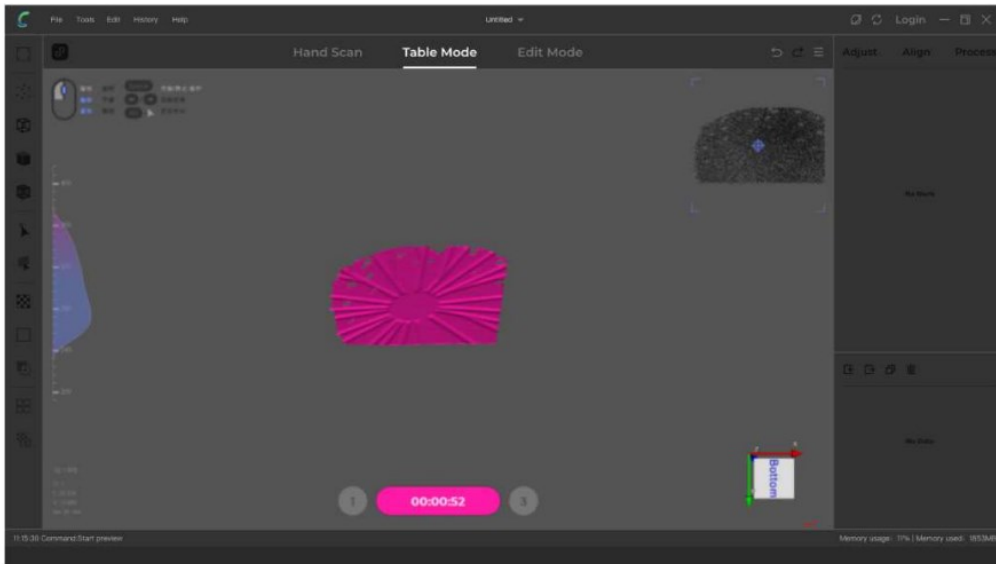
4. Pull the brightness adjustment slider to make the brightness appropriate.



Keep the area around the turntable free of debris.

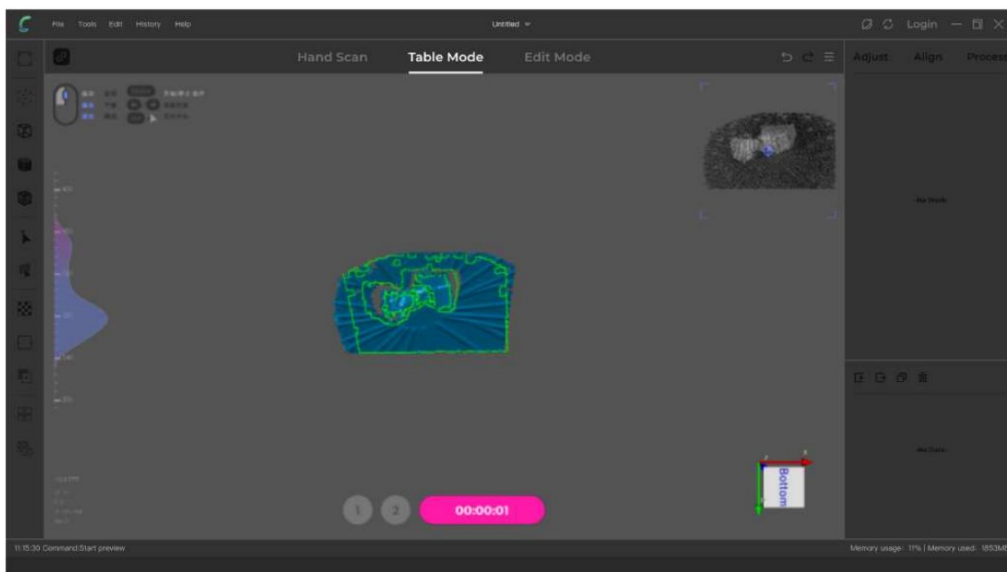


**Step 2: Initial**



Move the object away and scan the turntable only. The initialization is successful when the turntable becomes red. (This process takes only 1-2 seconds in most cases)

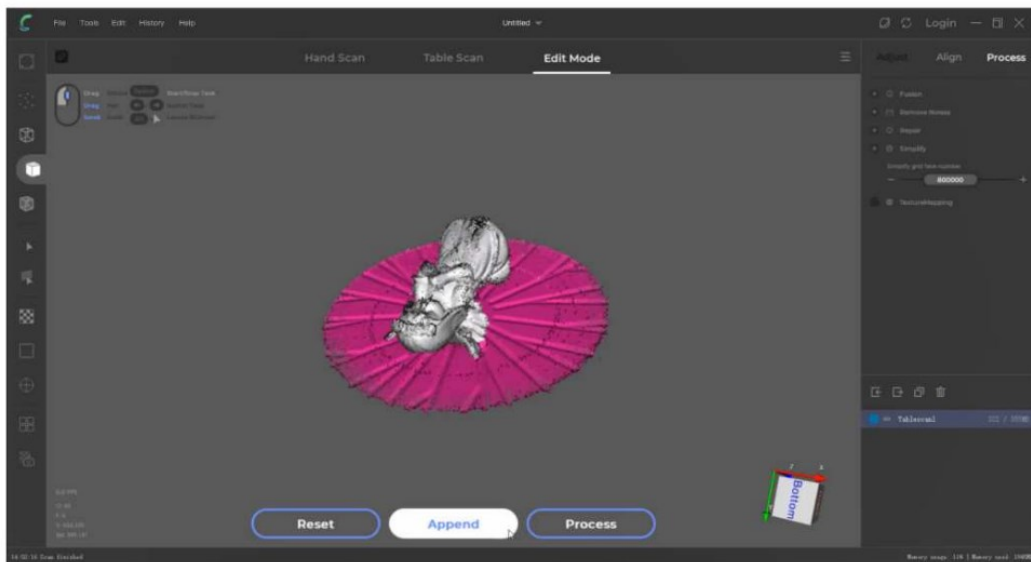
### Step 3: Scan



Make sure the object in the center of the turntable, and click “scan” to start the automatic scanning. When the scanning ends, the turntable will become red automatically.

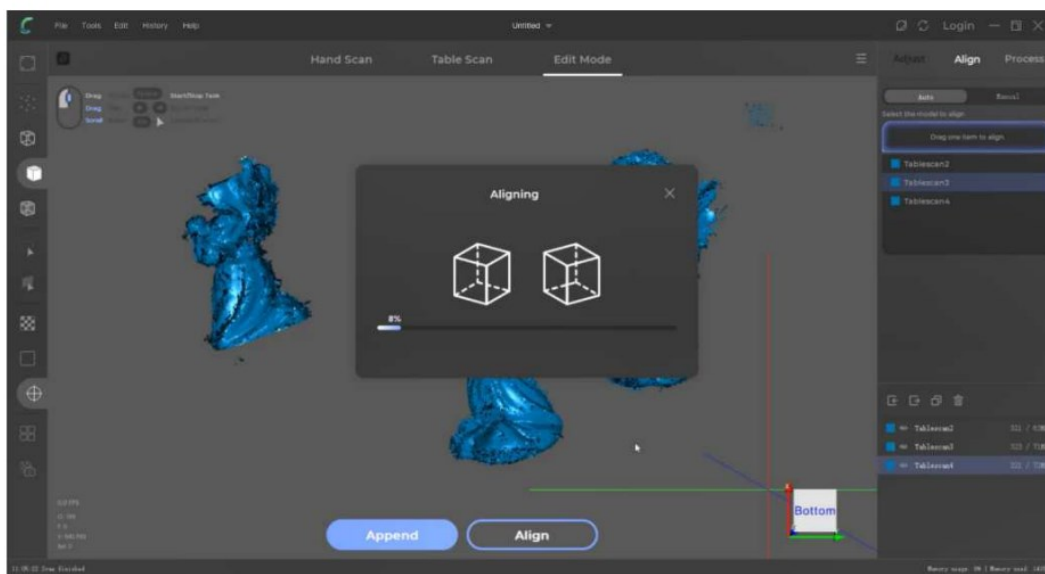
### Step 4: Append





In order to get a complete scanning result, you can scan different postures. Change the posture of the object on the turntable, and click “append” and “scan” one at a time, then the automatic scan of the second posture will begin.

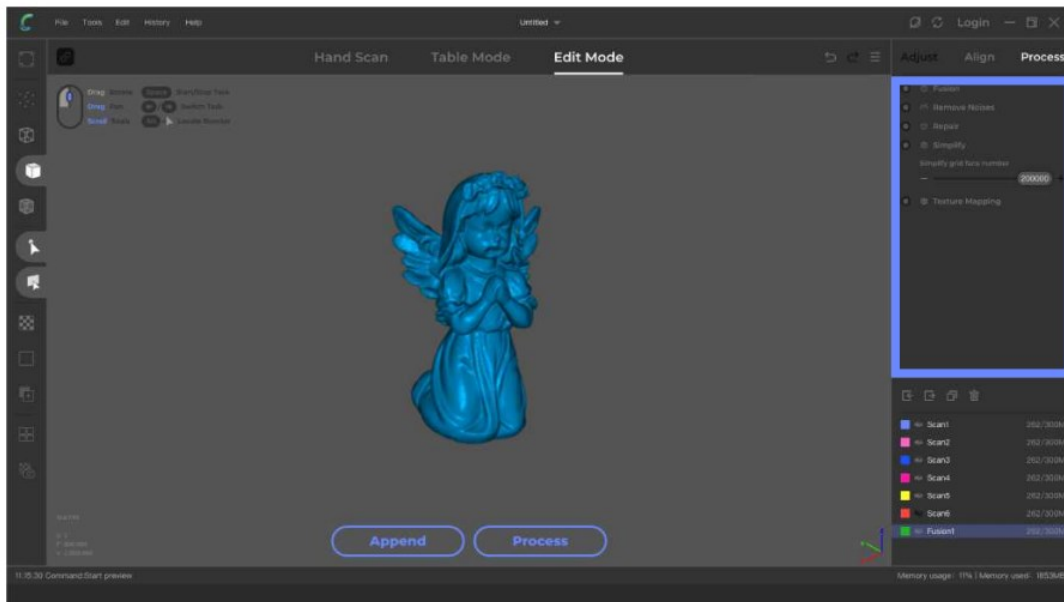
### Step 5: Align



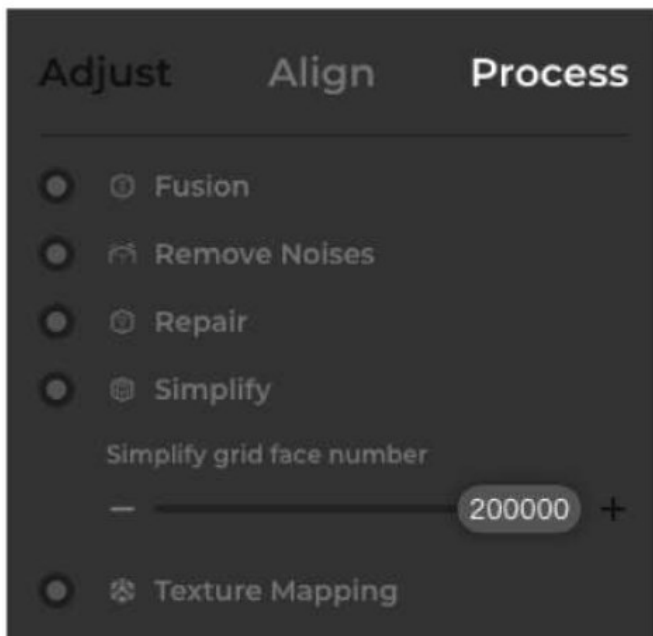
Now you can align the scanning results of different postures.

First thing to do is make the models visible by picking up the scanning data, and click “align” to start automatic alignment. After finishing that, check whether the alignment is successful or not. If you’re not satisfied with the result, click “manual” and start manual alignment.

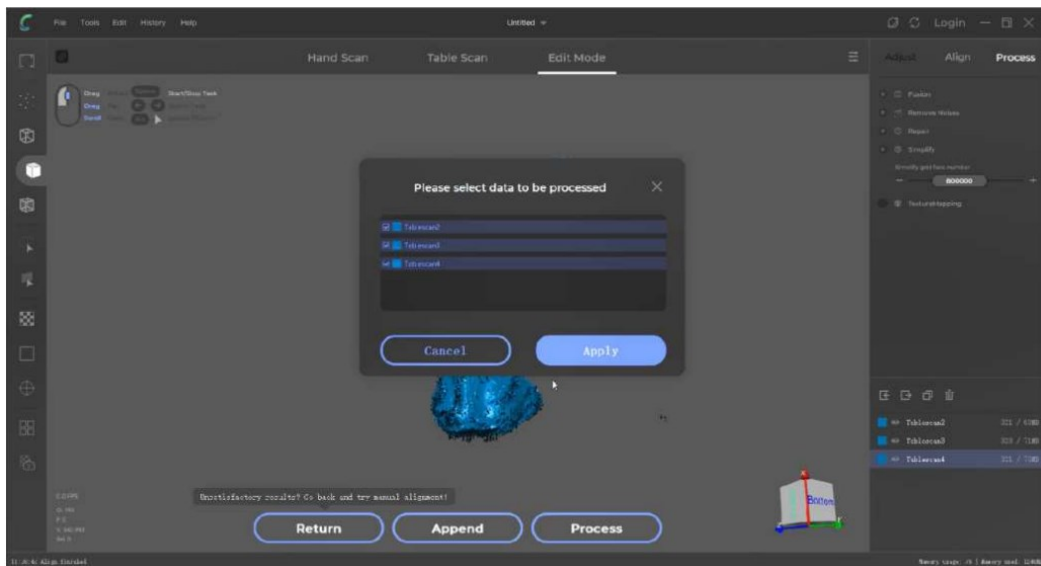
### Step 6: Process



1. **Fusion** this is the process of data fusion, building the point cloud into the digital terrain model.
2. **Remove Noises** automatic removal of noises around the data.

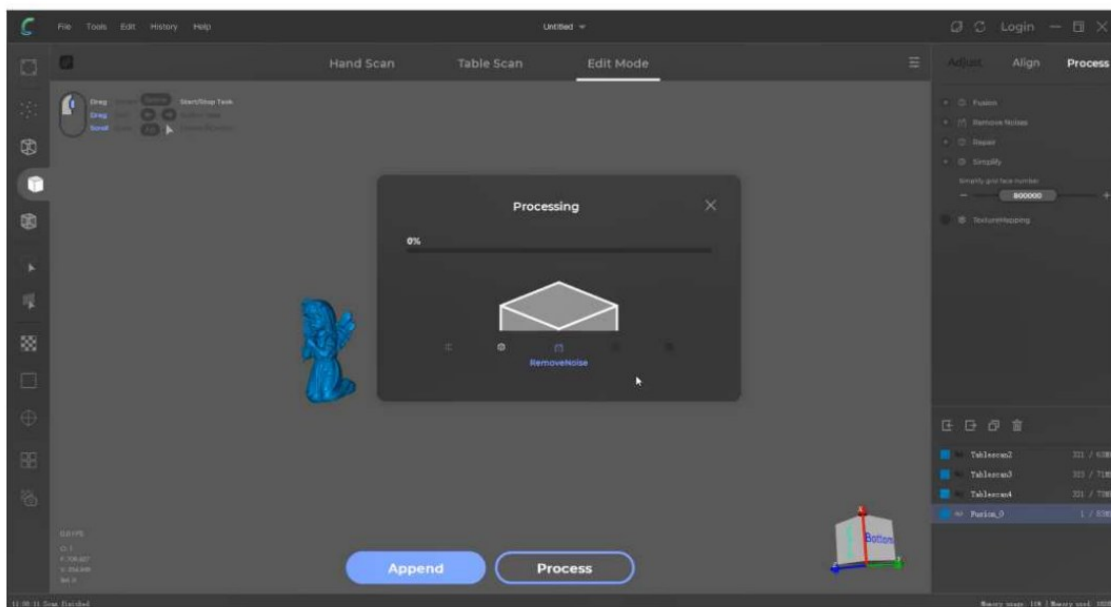


3. **Repair** automatic data repair, which is to fill the holes where the area hasn't been scanned. (Attention: Do not tick this option when scanning some objects with only one surface available, such as human face.)
4. **Simplify** — simplification of grids, so as to adjust the amount of the grids.(PS: If there are only a few grids, the details of the model will mostly lose. Our recommendation: the objects of about 1000mm-2 million grid faces, and objects of about 300mm-800,000 grid faces.)
5. **TextureMapping** \_ texture mapping is to automatically map the pictures shot by the cameras inside the scanner onto the model.



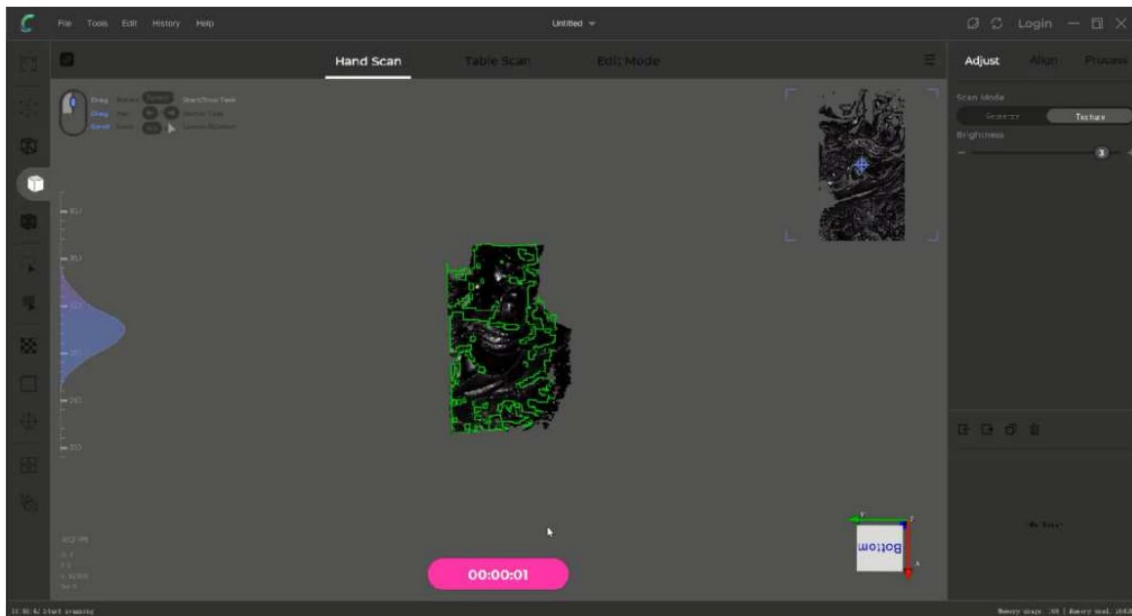
Click “Apply” to activate automatic processing.

At last, please click “File” in the menu and click “Export” to get your data in the format of OBJ or STL.



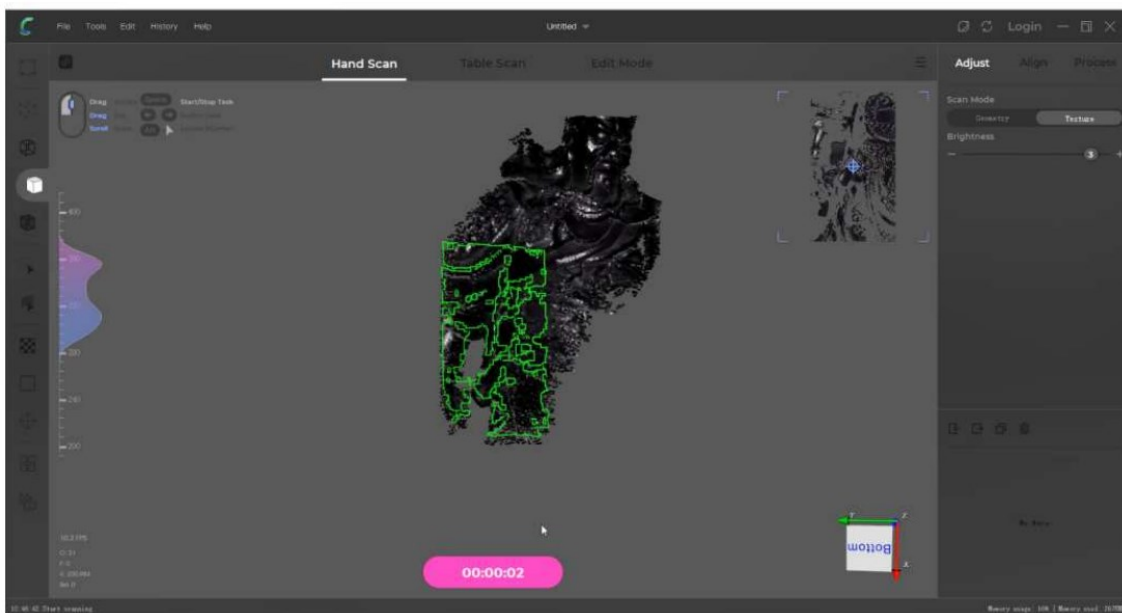
## In the Handheld Mode

### Step 1: Preview



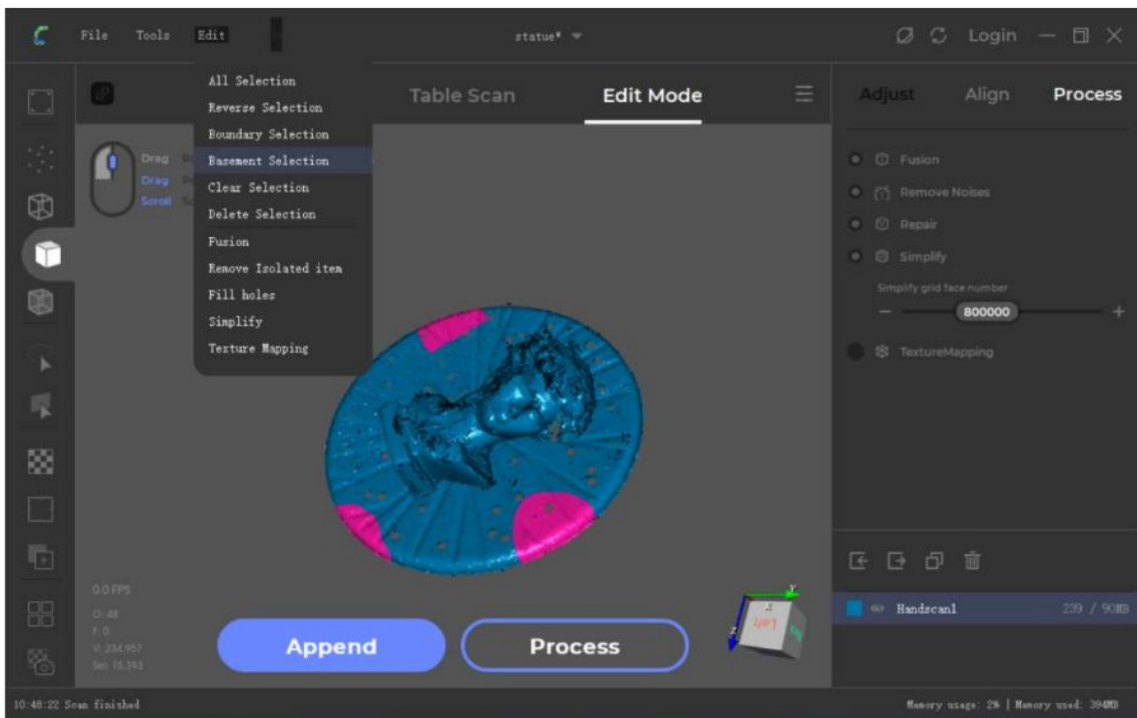
Click “preview” and there will be 10 seconds of countdown.  
During this period, you can adjust the brightness, the distance between the turntable and the scanner and your scanning angle.

## Step 2: Scan



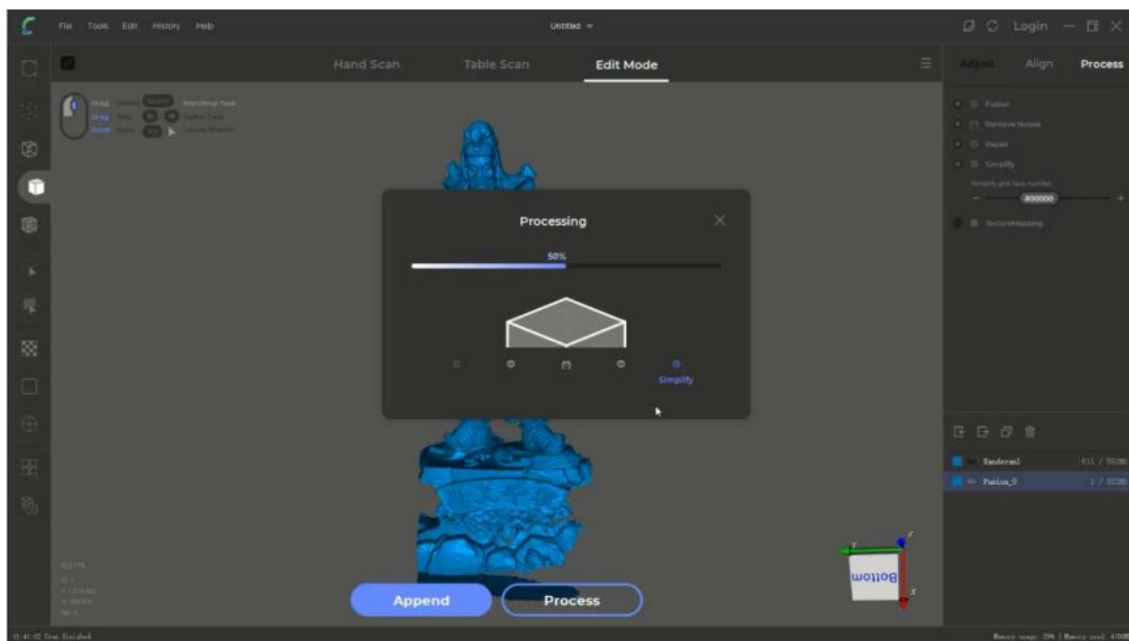
During the scanning process, try to move the scanner in the maximum scanning area. When the tracking is lost, you can retrieve the lost area by scanning the previously scanned area with the function of global relocation. In the handheld mode, same with the turntable mode, you can also scan your model in different postures to get a descent and complete result.

## Step 3: Remove The Basement



1. Enter the edit mode.
2. Hold down the ctrl key and the left mouse button to select 3 areas in the basement.
3. Right click your mouse and choose “selection plane” to calculate the whole basement.  
Now, the basement will turn red.

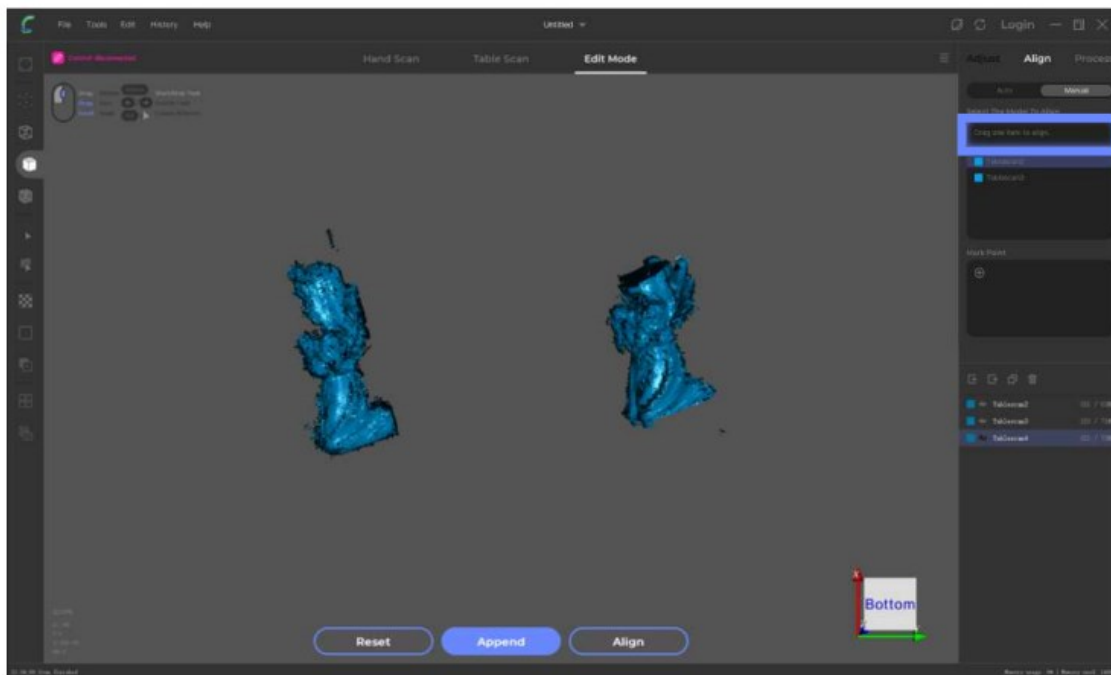
#### Step 4: Process



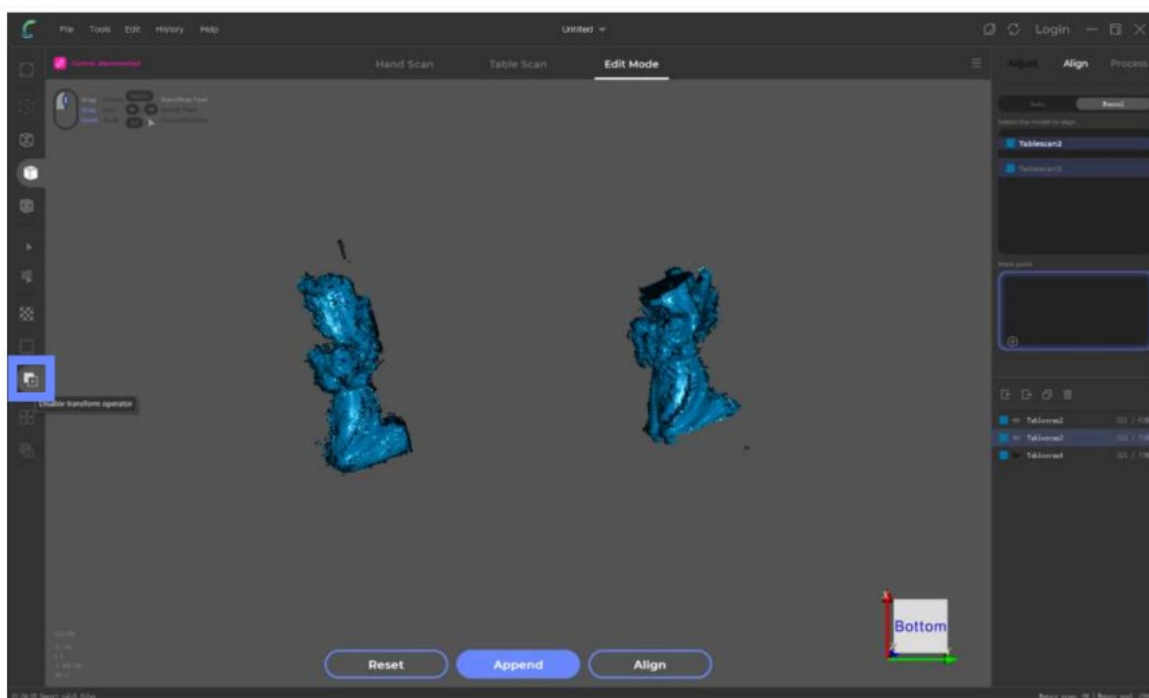
Click “process” , rename your project and save it. Then click “Apply” to activate automatic processing. At last, please click “File” in the menu and click “Export” to get your data in the format of OBJ or STL.

#### Advanced Tutorials

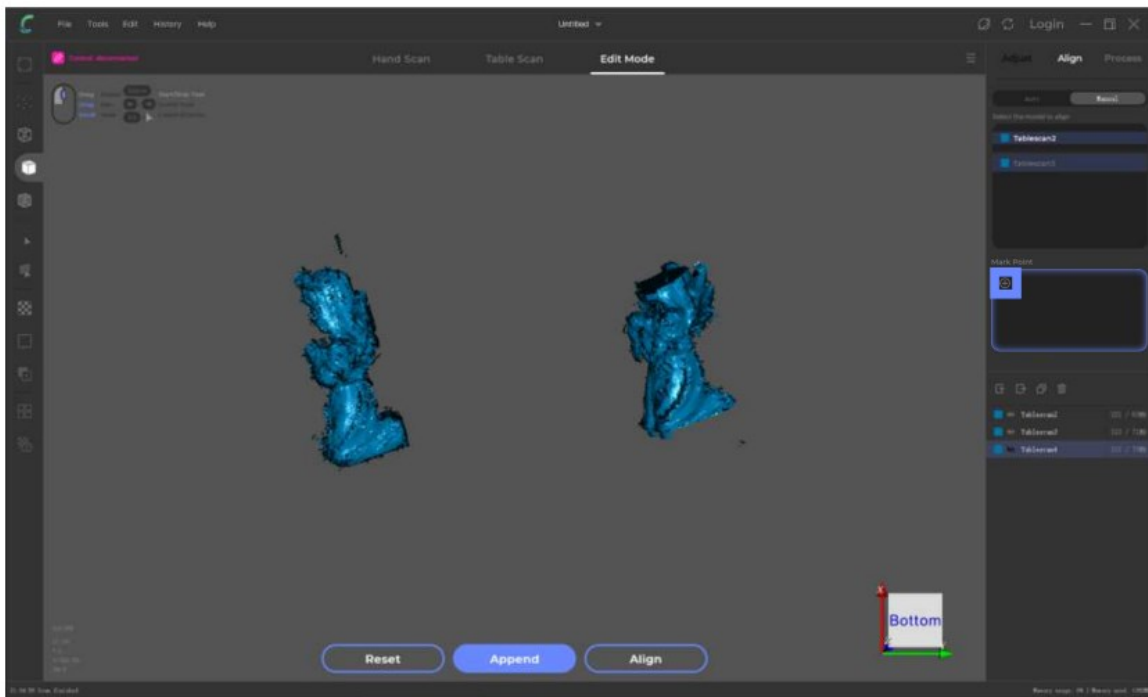
## Manual Alignment



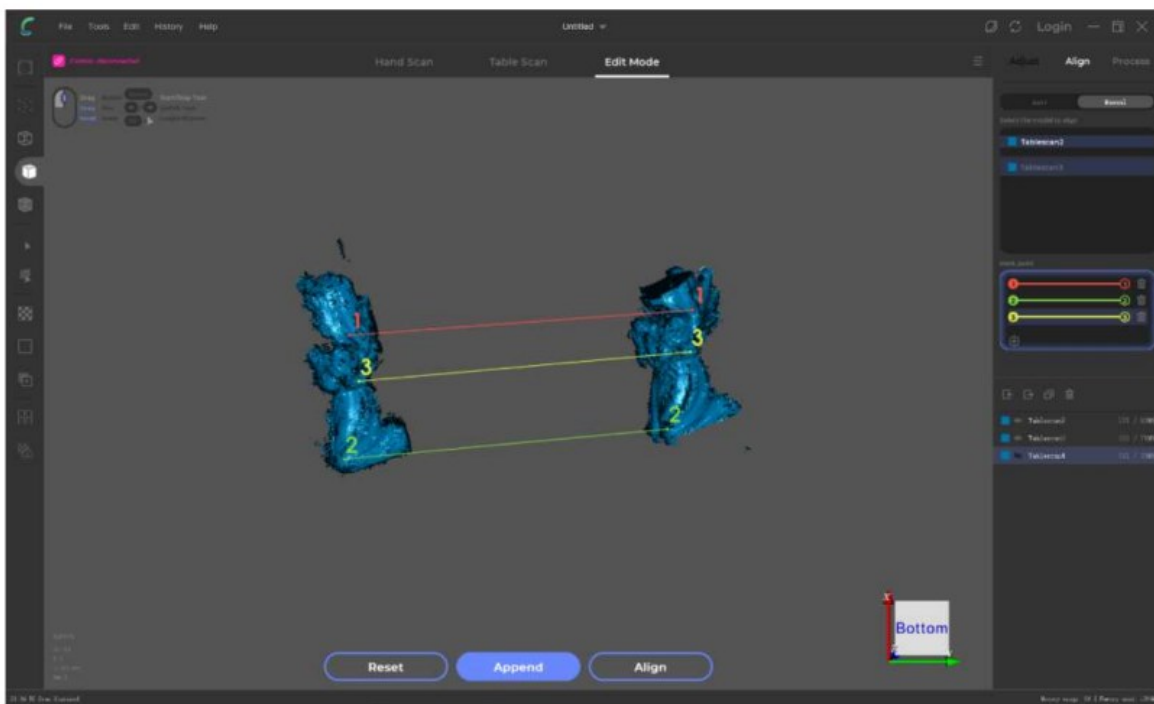
Drag one scan in the area where the arrow in the pic is pointing to, setting it as the reference model. (In the following picture, we will align Tablescan3 with Tablescan2 and the reference model is Tablescan2.)



Click the button for separating models that the arrow in the pic is pointing to, hold Alt and the middle mouse button to separate them, and hold Alt and the left mouse button to adjust the posture of the model.



Click the little plus icon down here to add pairs of mark points.

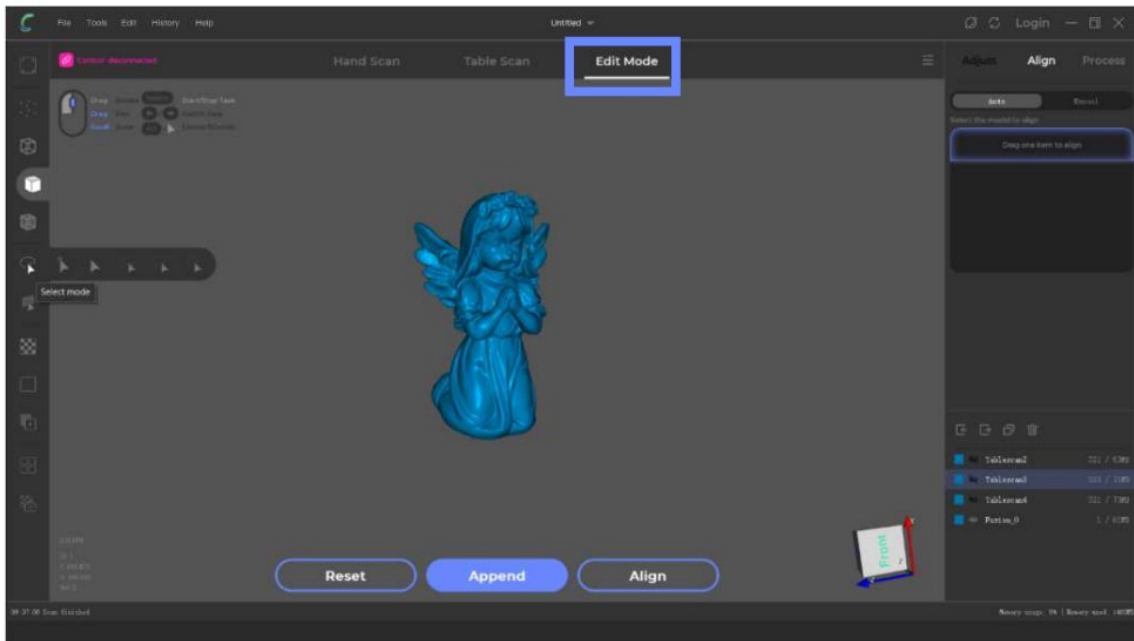


Pick up the pairs in the menu successively and create the corresponding mark points in the two models, as the picture shows.


With three pairs of mark points created, click “Align” and operate the manual alignment.

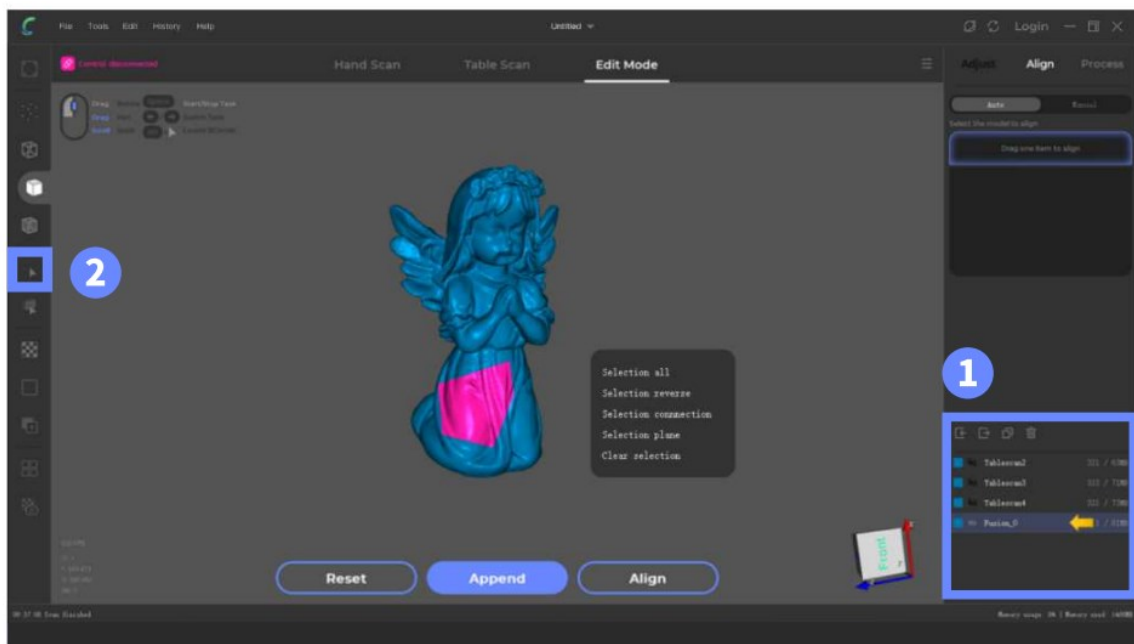
## Editing the model

### Step1: Enter The Editing Mode



Switch into the editing mode as the picture shows.

**Alt +**  **click** locate model rotation center



1. Pick up the scan that needs editing in the data menu as the picture shows.
2. This is the selector for selecting area in the model.

### Area Selector







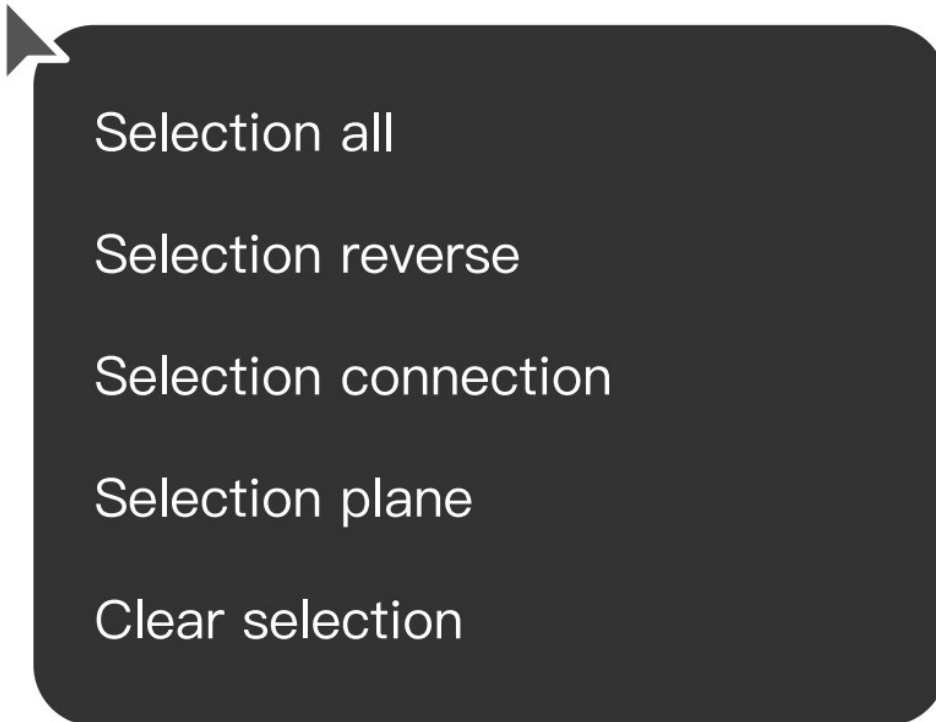
**Ctrl + drag** select the edit area on the model

**Del** delete selected area

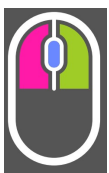


**click** edit selected area

**Right click your mouse to show the menu**



## Shortcut Key



drag rotate model  
drag pan model  
scroll scale model

**Space** Start/Stop Task



Switch Task

**Alt + Click** Locate Rcenter

## 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

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CREALITY



CR-Studio 2

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**MANUAL**

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CR-Scan 01 3D Scanner Set-400-900mm Scanning Range, CR-Scan, 01 3D Scanner Set-400-900mm Scanning Range, Set-400-900mm Scanning Range