CREALITY

CR-Scan 01

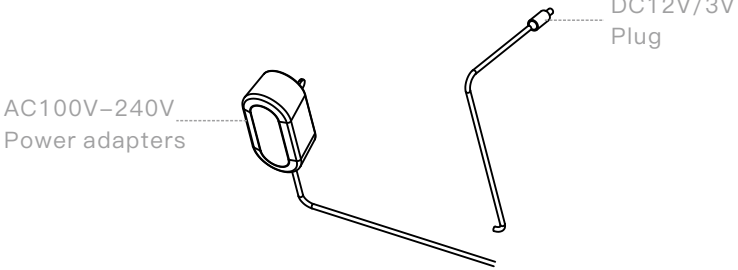
Quick Guide

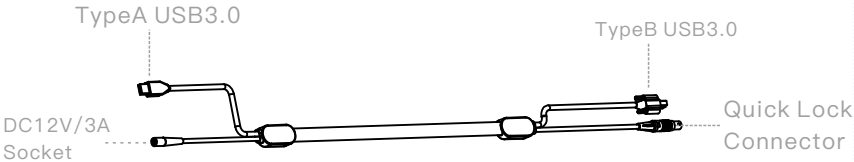
> This installation manual is simple and easy for users who first contact with 3D scanner equipment. This paper introduces the connection method of hardware equipment, accessories description and software operation. For details, see digital user manual and video.

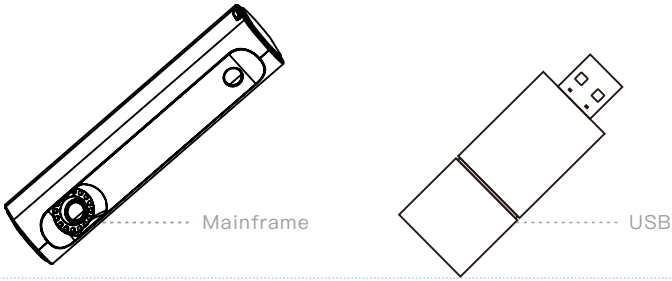
Instructions for use of accessories

Product Name:CR–Scan 01
Model:CRS1

Standard kit



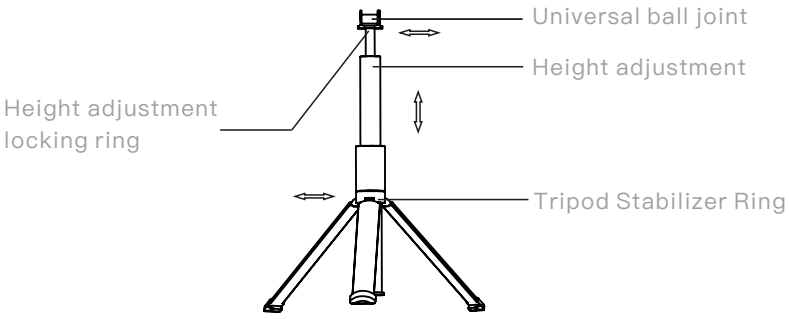


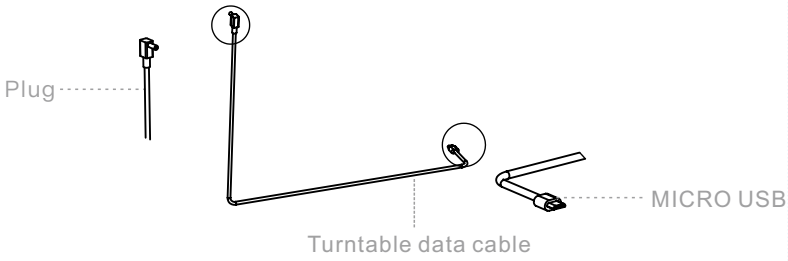


> Power plug AC 100V–240V, the other end is connected to the scanner DC port
> USB3.0 cable with one end connected to the scanner and the other end connected to the computer USB3.0 port

Upgrade kit

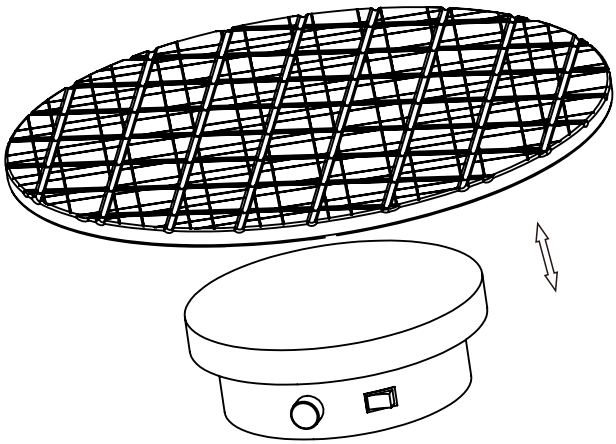
Turntable Mode (Tripod)





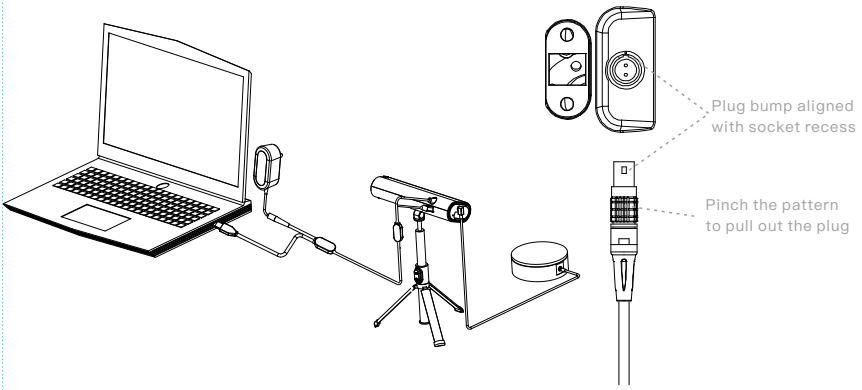
> Open the tripod as shown in the top picture, rotate the tripod stabilizer ring to fix the angle
> Mounting the scanner to the set screws
> Adjust the tripod height and rotate the height locking ring to lock
> Adjust the scanner angle and tighten the universal ball joint screw to lock

Turntable mode (Turntable)

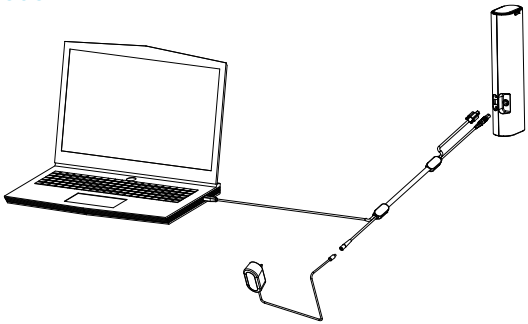


Hardware Installation

Turntable mode



Handheld mode



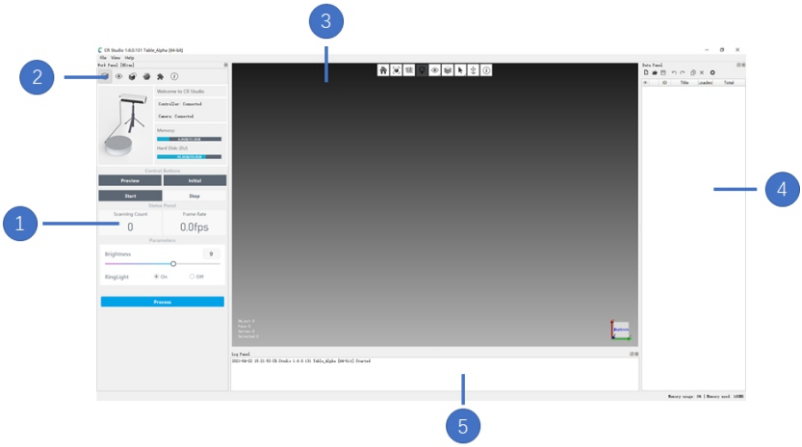
- The power supply head is connected to 100V–240V AC, and the other end is connected to the scanner DC port
- USB3.0 cable with one end connected to the scanner and the other end connected to the computer USB3.0 port
- The turntable is connected to the MIRCO USB and the other end is connected to the scanner DC2.0 interface

Precautions and maintenance

- The lens is a sensitive optical device, please do not contact with water, grease or sharp objects
- This product is a high precision measuring equipment, please do not use in solid smoke or heavy dust environment for a long time
- This product is a high precision measuring equipment, please place carefully to avoid external force image imaging accuracy
- The lens is a sensitive optical device, if the lens is stained, please use pure water, do not use with alcohol solvent wipe
- The lens is a sensitive optical device, if not in use, please place it in the random airtight box for storage
- This product in a long time standby premise, please turn off the power switch

Software usage instructions

Main UI



a. Function module page, showing the main function buttons
b. Module switch button, you can switch between different functional modules
c. Model display area, displaying model data in real time
d. Data management list, used to manage scanning data results
e. Log display window, used to display the software operation log

Shortcut Keys

1. Main shortcut keys

1.1 Handheld models – start/stop acquisition

Shift + S

1.2 Select the model rotation center

Alt + (click)

1.3 Rotating models

(Press and hold to move)

1.4 Panning Model

(Press and hold to move)

1.5 Scaling models

(Scroll wheel)

2. Edit Mode

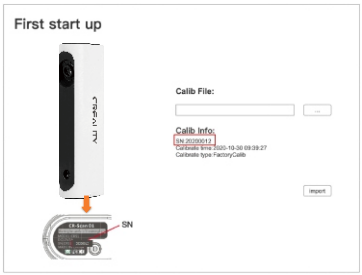
2.1 Selection of models

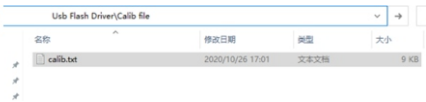
Ctrl + (Press and hold to move)

2.2 De-selection model

Ctrl + Alt + (Press and hold to move)

First start up

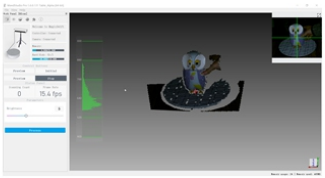


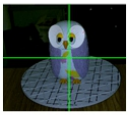


a. Click [...] button, Select the Calib.txt file on the device's USB drive in Calib file
b. Check if the SN number on the bottom of the device and the imported SN number match
c. Click [import] button,Complete the Calib file import and the software restarts automatically

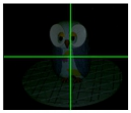
Turntable mode

1.Preview adjust Perspective

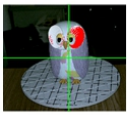




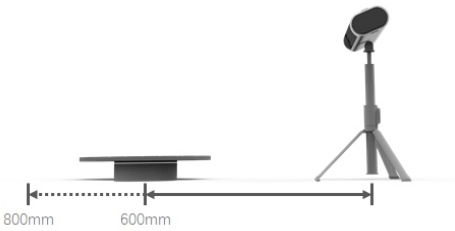
Good



Dark

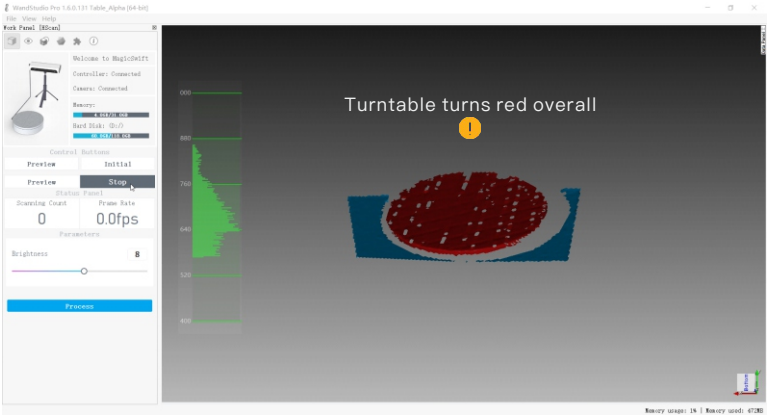


Bright



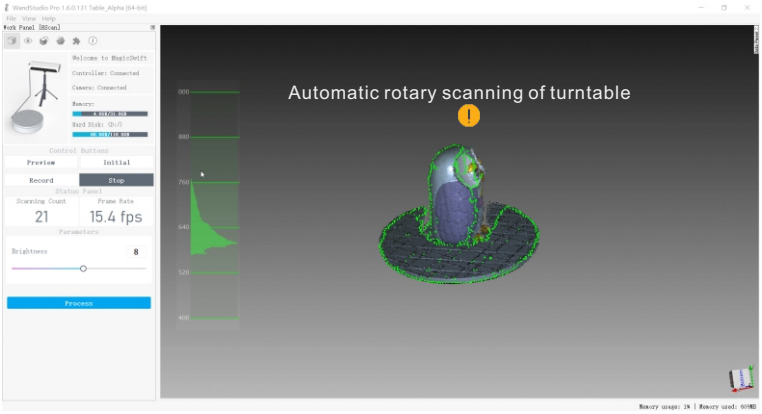
a. Click the Preview button to start the preview
b. Adjust the distance from the scanner to the turntable to between 600–800mm
c. Rotate the scanner so that the center of the camera image covers the turntable and is aligned with the scanned object
d. Adjust the brightness to make the photo brightness appropriate

2.Initializing the turntable



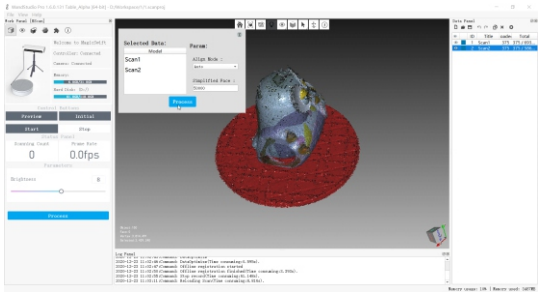
a. Removal of scanned objects and debris from around the turntable
b. Click the initialize button, and when only the turntable turns red, click the stop button

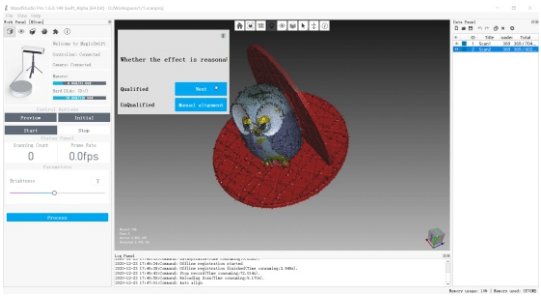
3.Start scanning

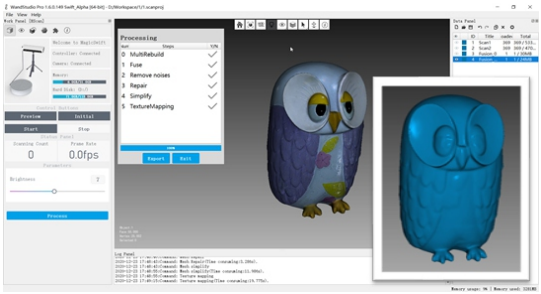


a. Placing the scanned object on the center of the turntable
b. Click the Start button to start automatic target scanning
c. After an object is scanned in one pose, the object can be flipped and scanned in multiple poses to get a complete model without missing

4.Automatic data processing



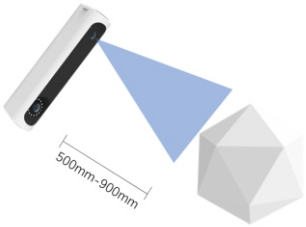


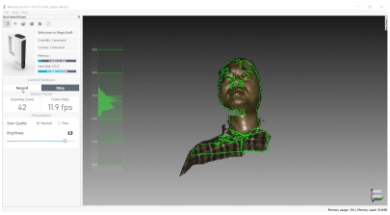


a. Click on the processing button to start the fully automatic processing
b. Check whether the data and corresponding parameters involved in the processing are appropriate and click the processing button
c. Check whether the multi-positional alignment structure is correct, if not, enter manual alignment mode
d. Complete the model data processing automatically and export the model result data (STL format can be directly 3D printed, OBJ format with color texture)

Handheld mode

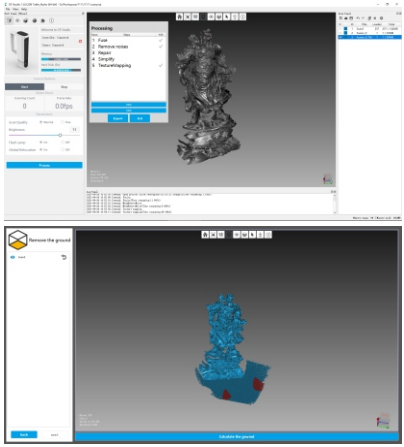
1.Start scanning





a. Align with the object, the distance to maintain 500mm–900mm, start scanning
b. As shown in the picture, take the lens on top of the scanner as the scanning center and align the scanned object
c. After scanning the object in one pose, you can flip the object to scan multiple poses to get the complete model without missing

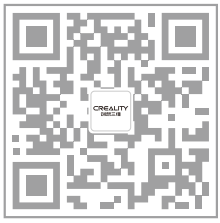
2.Automatic data processing



a. Click the processing button to start fully automatic processing
b. Enter the base–removal interface, use the shortcut keys to select 2–3 base–areas, click the calculate base–button, the base–area turns red
c. Start fully automatic processing of model data of one or more poses, and get a complete model without missing data

Users should comply with the laws and regulations of the corresponding countries and regions where the equipment is located (used) and ethical principles, fulfill safety obligations, and strictly prohibit the use of our products or equipment for any illegal purposes. Creality will not be responsible for any violators' legal liability under any circumstance.

3D Printing Industry Evangelist



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