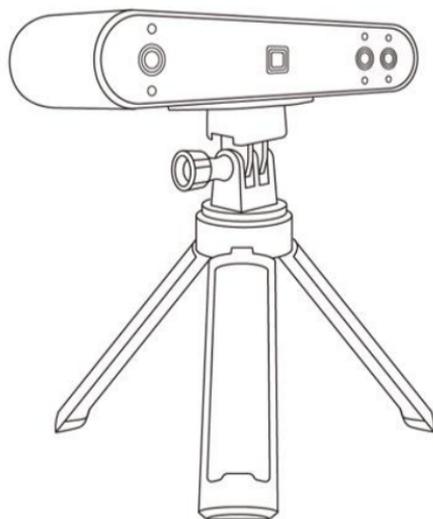


# POP 3 3D SCANNER

## Quick Start Guide

V2.0



REVOPOINT

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# Read Before Your First Scan

## Software Download



To use your POP 3 3D Scanner, you must first download the Revo Scan software. You can download it from Revopoint's website <https://www.revopoint3d.com/download/> for Windows and macOS systems. And for Android or iOS smartphones, search for "Revo Scan" in the Google Play or Apple App Store.



Windows V5.2.3

Updated 2023-08-09

[Download](#) [Google Drive](#)



Mac V5.2.3

Updated 2023-08-09

[Download](#) [Google Drive](#)



Android V5.2.2

Updated 2023-07-28

[Google Play](#) [Download](#)



iOS V5.2.2

Updated 2023-07-28

[App Store](#)

To learn more about Revo Scan's functions, please check out the user manual in Revo Scan.

## Scanning Dark, Transparent, or Reflective Objects

Like most 3D scanners, the POP 3 will struggle to scan transparent, reflective, or black objects without first lightly coating the object's surface with scanning spray, baby powder, or dry shampoo.

### Hard-to-scan Surfaces

Surface Features	Possible Solutions
Black or very dark objects	Apply scanning spray or fine powder materials
Shiny or reflective objects	Apply scanning spray or fine powder materials
Metal or electroplated surfaces	Apply scanning spray or fine powder materials
Transparent objects	Apply scanning spray or fine powder materials

## Scanning Objects with Plain Surfaces

Scanning objects with simple geometric features, like a football or wine bottle, requires using Marker stickers or marker points and scanning in Marker Mode.

1. Place the Marker stickers on or around the objects' surface irregularly and ensure there are at least 5 Marker stickers per frame for the entire scan, or the scanner will lose track.
2. Alternatively, reference objects (these are any objects with distinct features that can be easily tracked) can be used. Place 1 to 3 reference objects around the item you are scanning for the 3D scanner to track. If doing this, you can use the scanner in Feature tracking mode for the scan.

Please scan the QR code to watch a Marker stickers video tutorial.



## Color Scanning

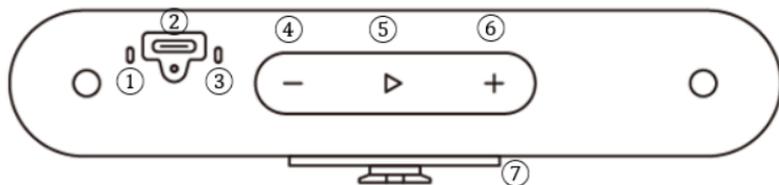
For optimal color scanning, please ensure that the object is evenly lit with soft light and that there are no dark or hard shadows.

## About POP 3

The POP 3 is the next-gen 3D scanner from the POP series with new and improved hardware, design, and usability. The improvements in POP 3's capabilities offer more possibilities for 3D printing, 3D animation design, reverse engineering design, product design, medical health, digitizing historical items, VR/AR, and more.

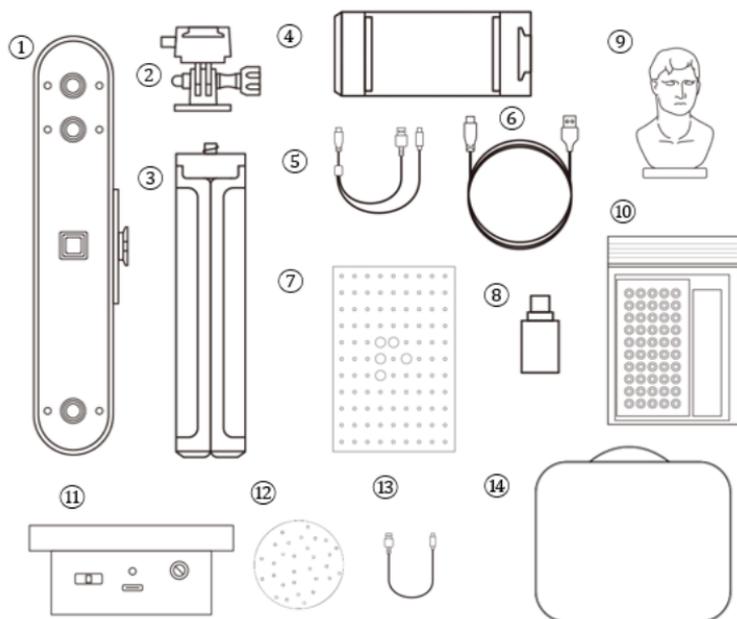


- |                        |                         |
|------------------------|-------------------------|
| 1. Infrared Fill Light | 6. RGB Camera           |
| 2. Depth Camera        | 7. White LED            |
| 3. Infrared Fill Light | 8. Infrared Fill Light  |
| 4. Projector           | 9. Depth Camera         |
| 5. White LED           | 10. Infrared Fill Light |



- |                         |                      |
|-------------------------|----------------------|
| 1. Connection Indicator | 5. Start/Pause Scan  |
| 2. Type-C Port          | 6. Increase Exposure |
| 3. Power Indicator      | 7. Quick Setup Board |
| 4. Decrease Exposure    |                      |

# What's in the Box?



- |                        |                                             |
|------------------------|---------------------------------------------|
| 1. POP 3 3D Scanner    | 9. Sample Bust                              |
| 2. Quick Mount Kit     | 10. Gifts (Markers, Glue Tack, Black Sheet) |
| 3. Tripod              | 11. Mini Turntable                          |
| 4. Phone Holder        | 12. Marker Topper                           |
| 5. 2-in-1 Mobile Cable | 13. Turntable USB Cable                     |
| 6. USB Type-C Cable    | 14. Carrying Case                           |
| 7. Calibration Board   |                                             |
| 8. Type-C Adapter      |                                             |

\* The Content in the above image is for illustrative purposes only.

# POP 3 on Windows or macOS Devices

Both Windows and macOS computers are compatible.

## System Requirements



Windows: Win 10/11 (64-bit)

Memory:  $\geq$ 8GB

Processor: Intel Core i5 or better



Mac with Intel  $\times$  86 chip: macOS 10.15 and models after

Mac with Apple M1 chip: macOS 11.0 and models after

Memory:  $\geq$ 8GB

\* Minimum PC Display Screen Resolution: 1344 $\times$ 768 (1920 $\times$ 1080 is recommended).

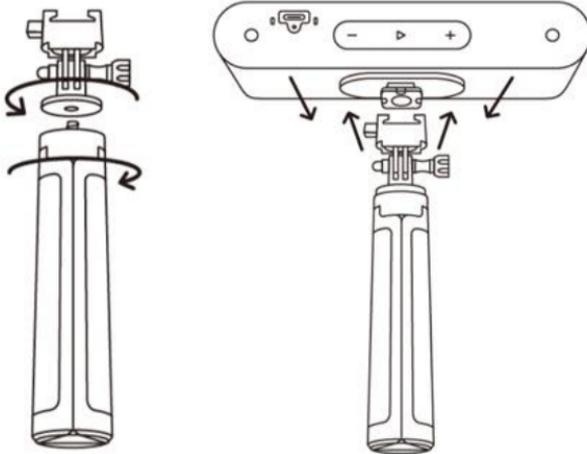
## Connection Methods

	Windows	macOS
USB Mode	√	√
Wi-Fi Mode	√	√

## Connecting POP 3 to a PC via USB

Step 1: Screw the Quick Mount Kit onto the Tripod.

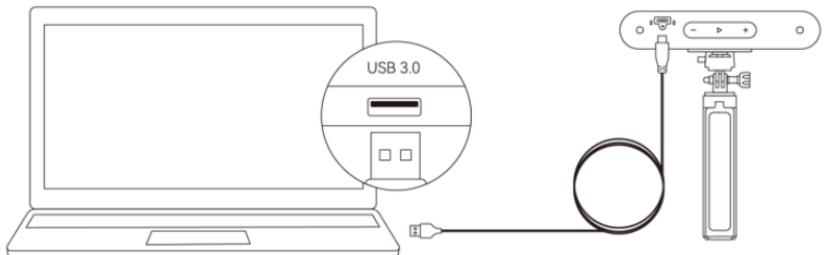
Step 2: Clip the POP 3 to the top.



Step 3: Connect the USB cable's Type-C end to the POP 3's rear port.

Step 4: Plug the Type-A end into a USB 3.0 port or above on your computer.

Step 5: Open Revo Scan on your computer.

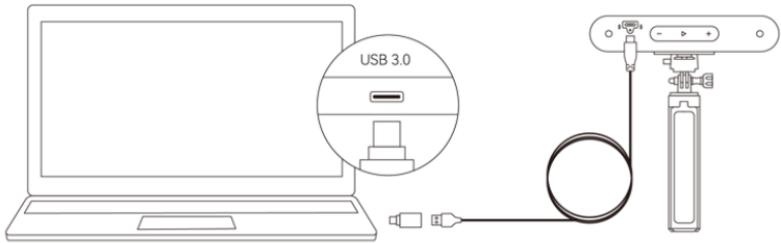


Windows or macOS

Notes:

1) Connect the POP 3 to a USB 3.0 port or above (USB 2.0 will not supply sufficient operating power.) Ensure your USB 3.0 port is not damaged or worn out.

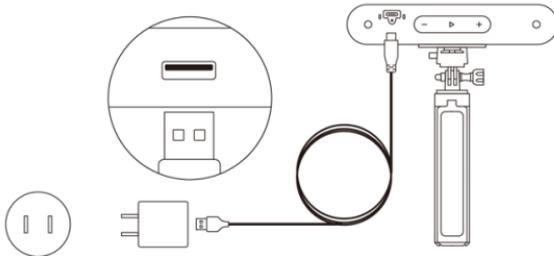
2) If there is no Type-A port on your computer, use the Type-C Adapter.



Windows or macOS

## Connecting POP 3 to a PC via Wi-Fi

Step 1: Power the POP 3 with the Power Bank Handle or an AC adapter.  
(Note: Do not plug it into your PC; it will be in USB mode by default.)



Step 2: Connect the PC to the POP 3.

- 1) Go to your Wi-Fi setting, search for the network called POP 3-XXXXXX and connect (No password is required).
- 2) Wait a few seconds for the scanner to connected.



Windows or macOS

Step 3: Open Revo Scan on your computer.

## POP 3 on Smartphones

Android devices can connect via either USB or Wi-Fi. However, iOS devices only support Wi-Fi.

### System Requirements



Android:  $\geq$ Android 9.0  
Harmony OS is supported.  
RAM:  $\geq$ 6GB



iPhone: iPhone 8 Plus or models after  
iPad: 6th generation iPad or models after  
System Version:  $\geq$ iOS 13.0

### Connection Methods

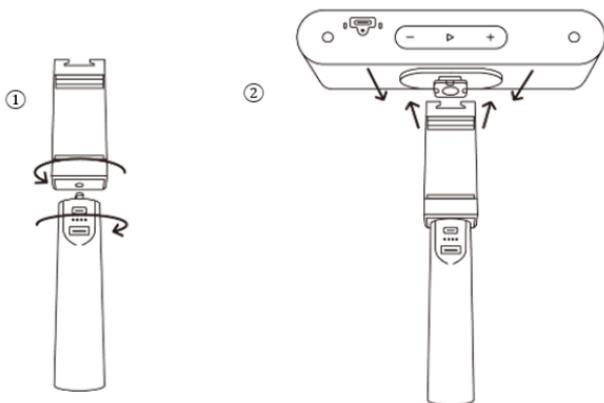
	Android	iOS/iPadOS
USB Mode	√	×
Wi-Fi Mode	√	√

## Connecting POP 3 to Android Phones via USB

Step 1: Screw the Phone Holder onto the Power Bank.

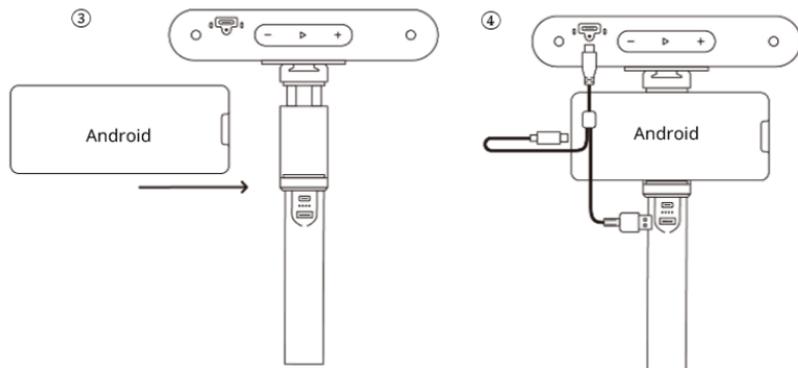
Step 2: Clip the POP 3 to the top of the Phone Holder.

Note: The Power Bank Handle is not included in the Standard Edition and can be found on Revopoint Store. Or you can prepare a power bank (5V, 1A).



Step 3: Pull open the Phone Holder's clamps and fit your smartphone.

Step 4: Connect the 2-in-1 Mobile Cable's Type-C end to the POP 3's port, Type-A to the Power Bank, and Type-C to an Android smartphone.

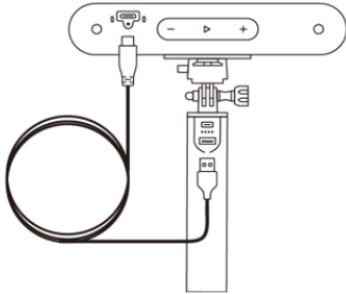


## Connecting POP 3 to Phones via Wi-Fi

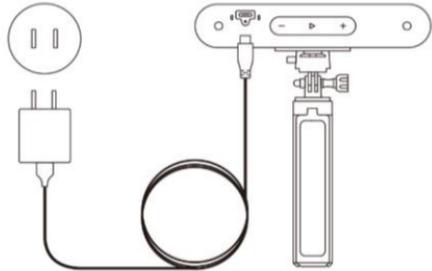
Both Android and iOS Phones are compatible.

**Step 1: Power the POP 3 on via the Power Bank Handle or a Socket.**

1) Powered by a Power Bank.    2) Powered by a Socket.



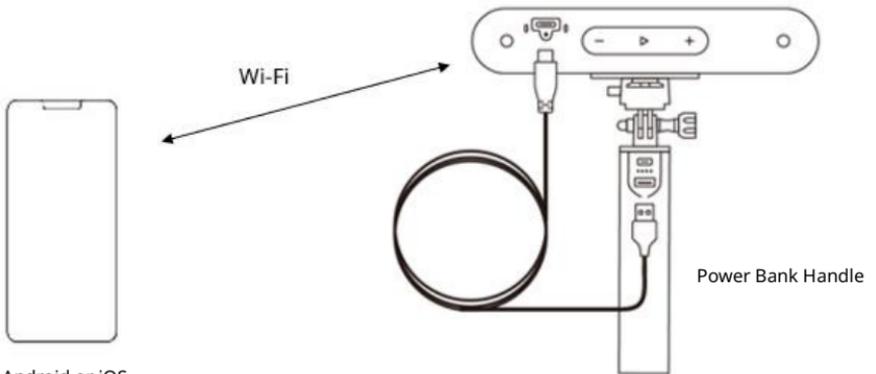
Power Bank Handle



Socket

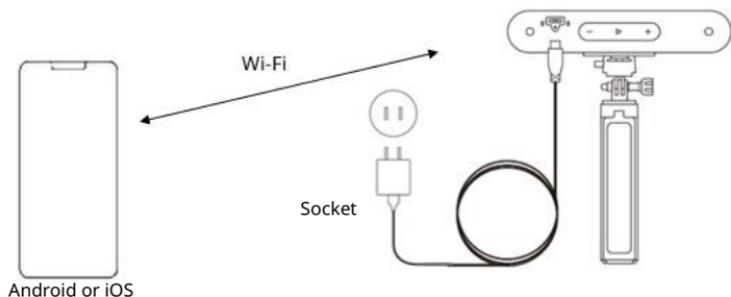
**Step 2: Connect the Smartphone to the POP 3.**

- 1) Go to your smartphone's Wi-Fi setting, search for the network called POP 3-XXXXXX and connect (No password is required).
- 2) Wait a few seconds for the scanner to be connected.



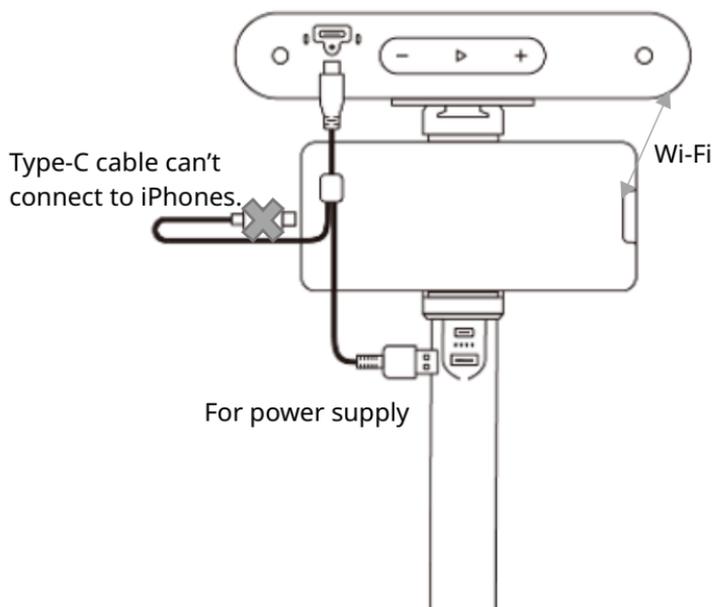
Android or iOS

**Or**



**Step 3: Open Revo Scan on your phone.**

Note: If you have an iPhone, and want to use the 2-in-1 Mobile Cable to scan, it works like this:



# Appendix

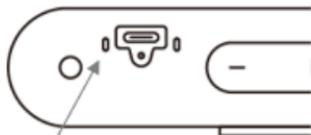
## Specifications

<b>Product Name</b>	POP 3 3D Scanner
<b>Technology</b>	Biocular Dual Camera Infrared Light
<b>Single-frame Precision</b>	Up to 0.05mm
<b>Single-frame Accuracy</b>	Up to 0.1mm
<b>Single Capture Range</b>	125mm x 225mm
<b>Working Distance</b>	150mm - 400mm
<b>Minimum Scan Volume</b>	20mm x 20mm x 20mm
<b>Scanning Speed</b>	12 - 18fps
<b>Light Source</b>	Class 1 Infrared Light
<b>Tracking Methods</b>	Feature, Marker
<b>Color Scanning</b>	Yes
<b>Output Formats</b>	PLY, OBJ, and STL
<b>Point Distance/ Resolution</b>	0.05mm
<b>Special Object Scanning</b>	Use scanning spray for transparent, dark, or highly reflective objects.
<b>Scanning Environment</b>	Indoors and Outdoors
<b>Outdoor Scanning</b>	The POP 3 cannot scan objects well in direct bright sunlight.

## POP 3 Quick Start Guide

<b>Scanner Dimensions</b>	153mm x 45mm x 29mm
<b>3D Printing Compatible</b>	Yes
<b>Compatible OS</b>	Windows, Android, iOS, macOS
<b>Buttons</b>	Three touch buttons.
<b>Button Functions</b>	Start/Pause scanning, adjusting exposure
<b>LED Indicators</b>	Connection indicator shows the connection status.
	Power indicator shows the power status.
<b>PC Display Screen Resolution</b>	>1344x768 (1920x1080 is recommended)
<b>Wi-Fi</b>	Wi-Fi 6
<b>Connection Port</b>	USB Type-C
Note: <ol style="list-style-type: none"><li>1. Accuracy was acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.</li><li>2. iOS devices only support Wi-Fi connection.</li><li>3. Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.</li></ol>	

## LED Indicators



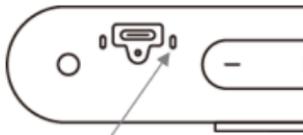
Connection Indicator

No light: Not Connected

Solid blue light: Connected

Flashing blue light: Working

Properly



Power Indicator

No light: Not Powered

Solid red light: Powered

Flashing red light: Starting

Solid green light: Started Successfully

## Updating the Firmware

A pop-up will notify you when you connect your POP 3 to Revo Scan if a firmware update is available. If you want to update your firmware, follow the install wizard's prompts and ensure your POP 3 has a stable power supply.

## Scanner Calibration

Your POP 3 3D Scanner was calibrated in the factory and only needs to be recalibrated after a year of use or if the scanned results do not match the specified accuracy.

## Maintenance Instructions

1. Small parts, such as markers, are dangerous if swallowed. Keep all components out of reach of children and animals to avoid serious injury to them.
2. Store the scanner and all accessories in a cool, dry place away from direct sunlight.
3. Do not allow the scanner to come into contact with or become

immersed in water or other liquids. Wipe it with a soft, absorbent cloth if it gets wet. Operating a scanner that has gotten wet may cause permanent component damage.

4. Keep the cameras and projector (the two IR cameras, one RGB camera and a projector) clean. Use 95% isopropyl alcohol and a soft cloth to clean them.

5. Handle the scanner with care to avoid hitting the cameras.

6. The operating temperature POP 3 of this product is 0°C to 40°C (32°F to 104°F).

7. Do not disassemble the scanner. If there are any problems or questions, contact the Revopoint customer service team at [customer@revopoint3d.com](mailto:customer@revopoint3d.com).

## Customer Service

If you need any assistance with your scanner, please don't hesitate to contact us at [customer@revopoint3d.com](mailto:customer@revopoint3d.com) or drop us a line at +1 (888) 807-3339 or chat with one of our customer service agents online on our website at [www.revopoint3d.com](http://www.revopoint3d.com). Click the speech bubble on the bottom right corner of the screen.

# Warning

The product cannot be returned  
if the "**Warranty Void If Seal Is Broken**"  
label is damaged or removed.

This content is subject to change.



[www.revopoint3d.com](http://www.revopoint3d.com)

If you have any questions about this document,  
Please contact Revopoint by sending a message  
to [support@revopoint3d.com](mailto:support@revopoint3d.com) or our forum  
<https://forum.revopoint3d.com/>.