REVOPINT MIRACO Big And Small Object Standalone 3D Scanning User Guide

Contents

REVOPOINT

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Specifications:

- Product: MIRACO 3D Scanner
- Camera System: Quad-depth camera system
- Accuracy: Up to 0.05 mm single-frame accuracy
- RGB Camera: High-resolution for color scans
- Features: Ergonomic grip, anti-slip pad, AMOLED screen, speaker
- Connectivity: USB Type-C port, Wi-Fi

Product Usage Instructions

- **About MIRACO:**
  MIRACO is a versatile, all-in-one 3D scanner designed for professionals. It features a robust quad-depth camera system that offers high accuracy in scanning with realistic color scans.
- **What's in the Box?**
  The package includes the MIRACO 3D Scanner, USB Type-C to C Cable, Power Adapter, Turntable accessories, Calibration Board, Scanner Bag, and more.

First Use – Unboxing and Setup:

1. Charge the MIRACO to more than 60% battery.
2. Long-press the Power Button for 5 seconds to turn on the device.
3. Select language, connect to Wi-Fi, adjust Date and Time settings.

4. Enter the Scan Interface to start scanning.

Helpful Screen Gestures:
Learn useful screen gestures like swiping down for Quick Settings, rotating models, zooming, and moving models for efficient usage.

Scan:
Read instructions for Scan Settings and Exposure Adjustment before starting the scanning process on MIRACO.

FAQ:

Q: How can I update the software on MIRACO?
A: To update the software on MIRACO, scan the QR code provided in the Quick Start Guide or visit the official MIRACO support page at **www.revopoint3d.com/pages/support-miraco** to download the latest version.

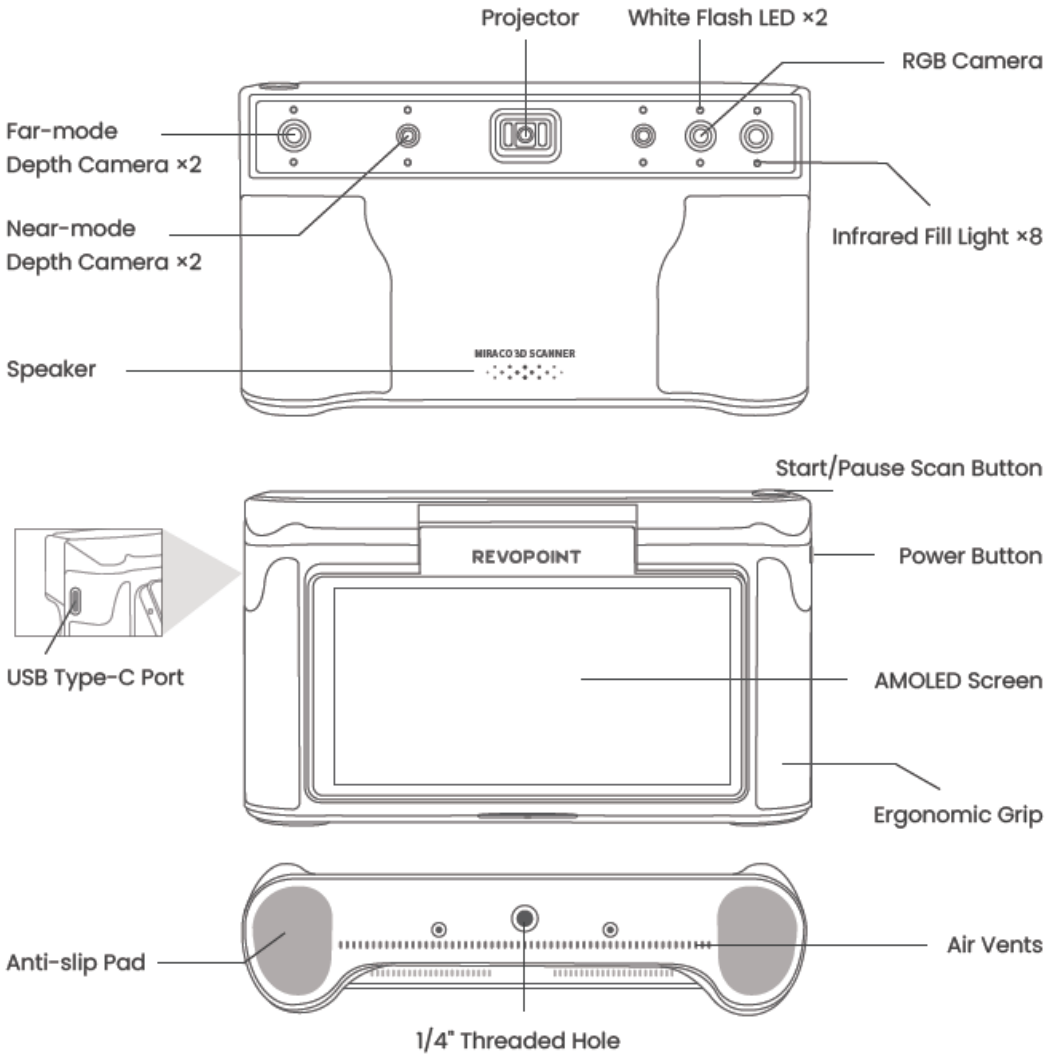
MIRACO 3D SCANNER
Quick Start Guide V1.0

With the update of MIRACO software functions, the Quick Start Guide will be correspondingly updated. Please scan the QR code and visit the official MIRACO support page to download the latest version.

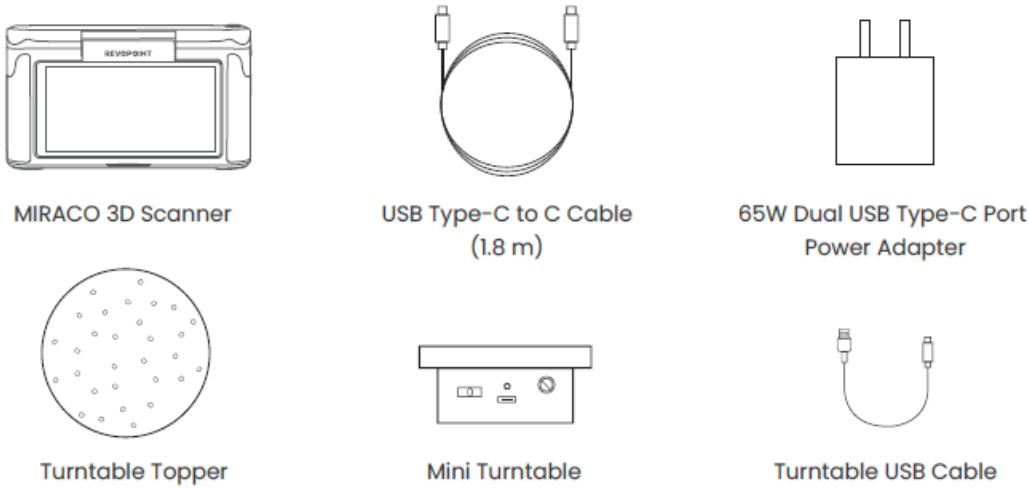
www.revopoint3d.com/pages/support-miraco

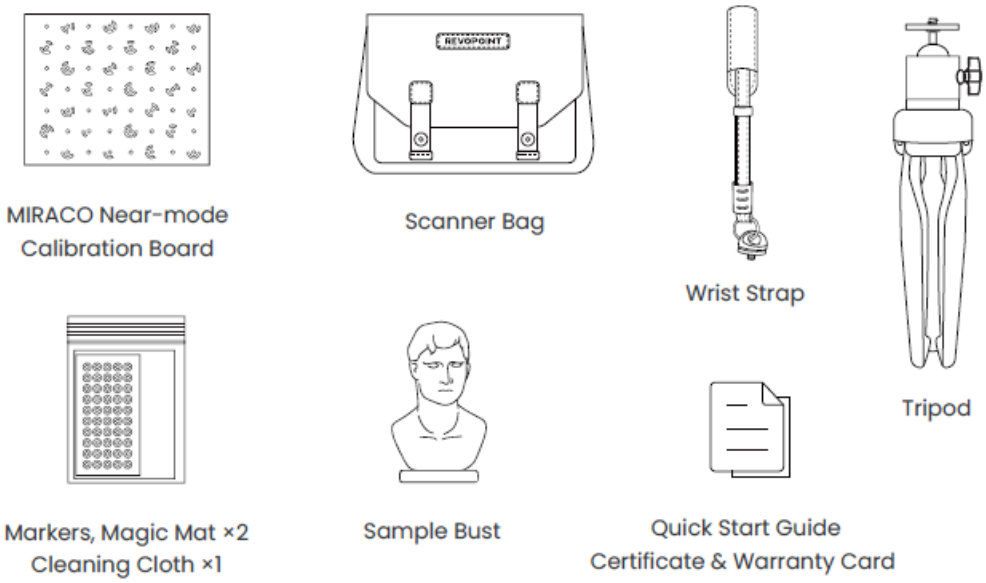
About MIRACO

MIRACO is a versatile, all-in-one 3D scanner designed for professionals. Featuring a robust quad-depth camera system, it offers accuracy ranging from ultra-fine detail capture with a single-frame accuracy up to 0.05 mm to broader area scans with still remarkable accuracy. Its high-resolution RGB camera also ensures stunningly realistic color scans, making it a powerful tool for a wide range of 3D scanning applications.



What's in the Box?





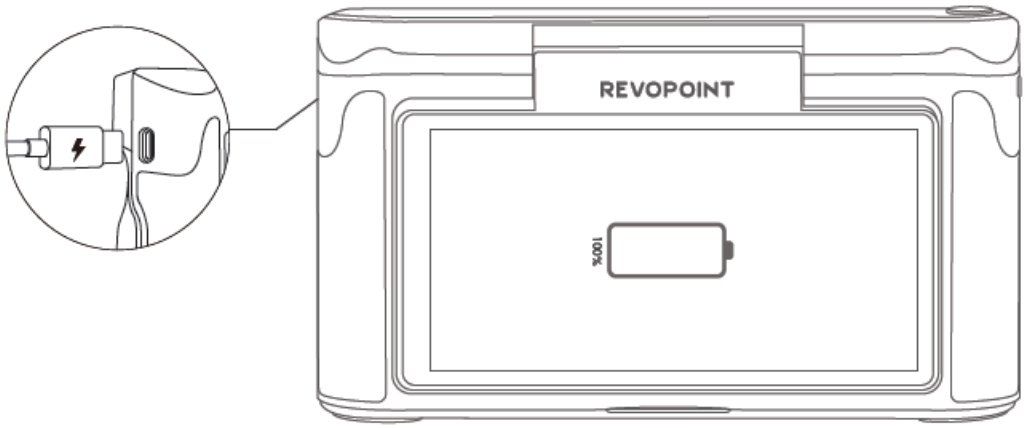
Note:

1. The MIRACO Pro (32 GB RAM) package also includes the Far-mode Calibration Board ×4, Large Calibration-board Sheet ×1 and a USB Type-C to HDMI Adapter.
2. The Power Adapter may vary depending on the country or region.

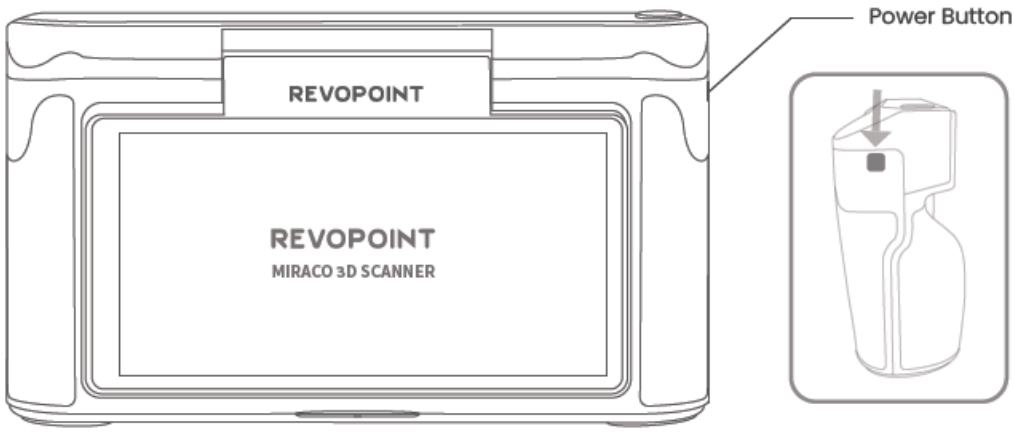
First Use

Unboxing and Setup

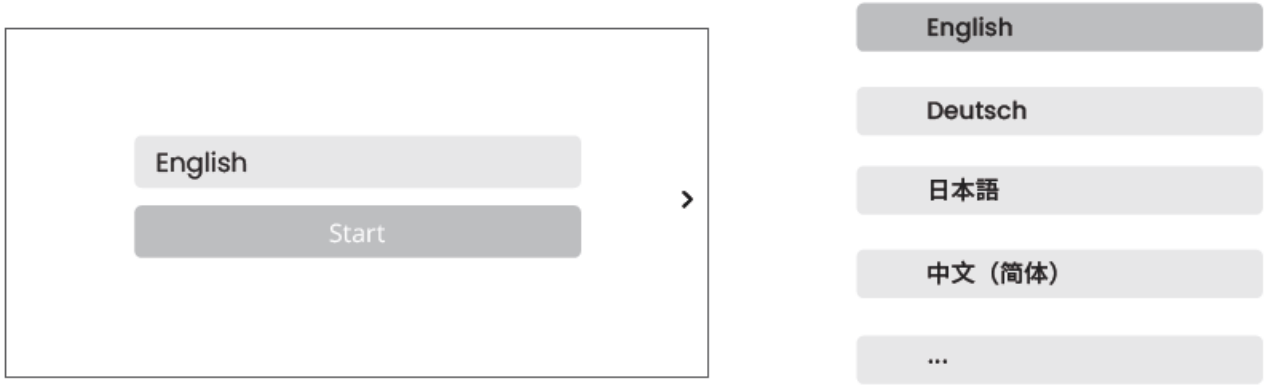
1. **Step 1:** For the first use, please charge the MIRACO to more than 60%.



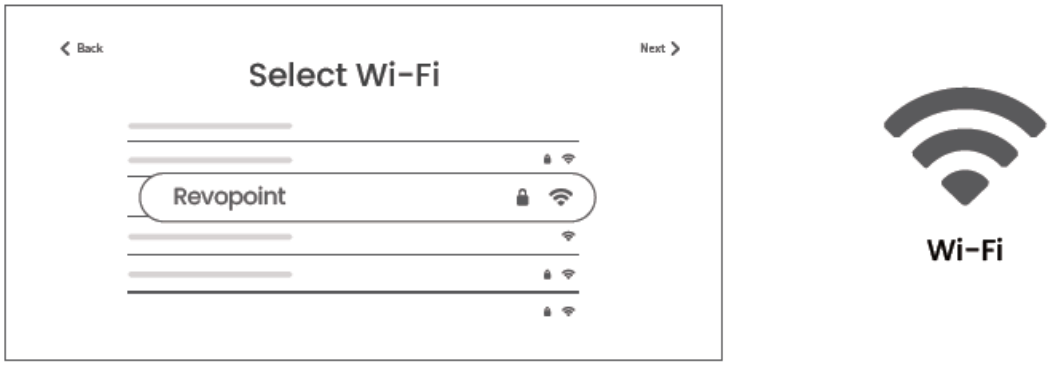
2. **Step 2:** Long-press the Power Button (5s) to turn on.



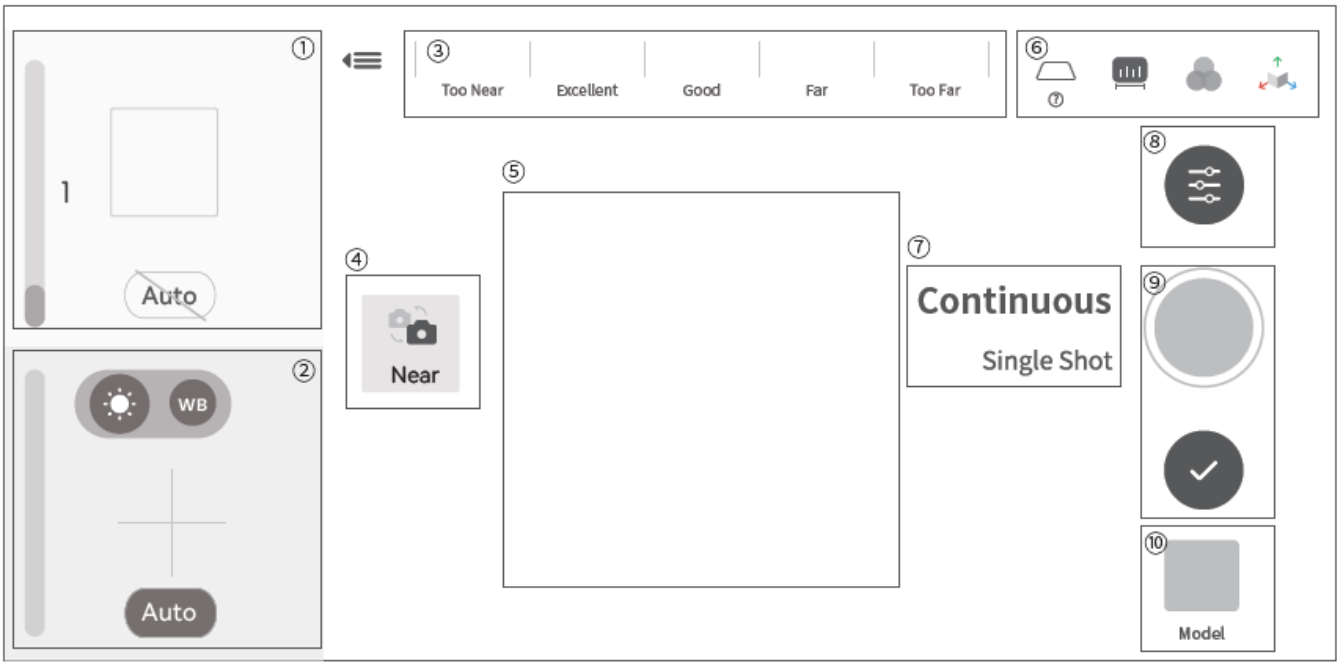
3. **Step 3**: Select a language.



4. **Step 4:** Connect to a Wi-Fi network for project transfers and software update notifications.



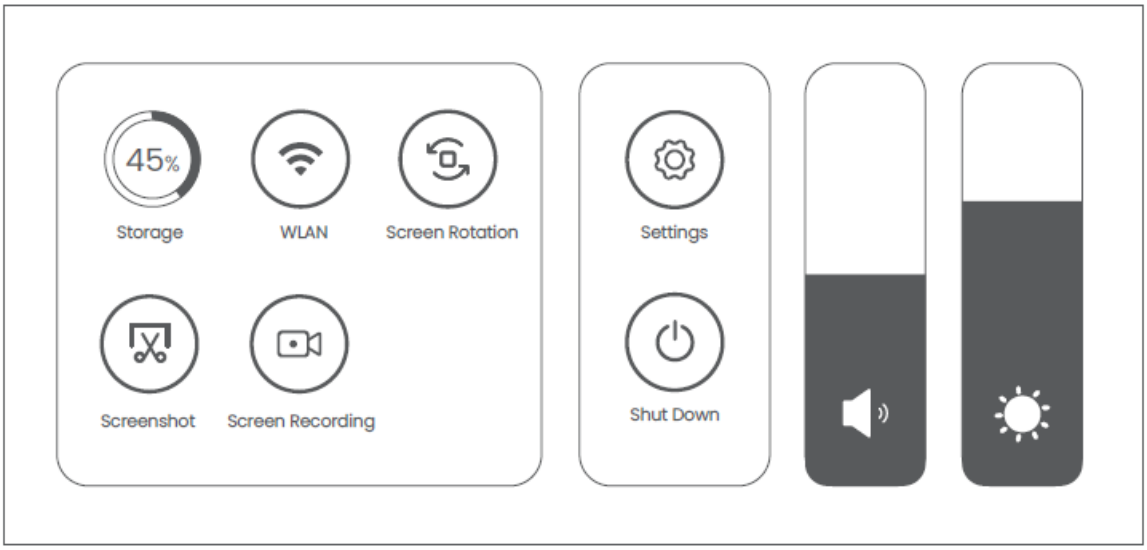
5. **Step 5**: Adjust and confirm the Date and Time.
6. **Step 6:** Tap Next to enter the Scan Interface, and functions on this page display as below:



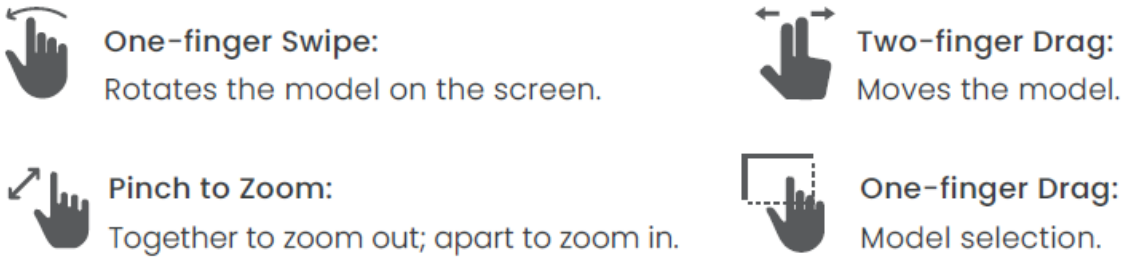
1. Depth Display Window
2. RGB Display Window
3. Distance Display
4. Far & Near Mode Switching
5. 3D Display Window
6. Base Removal / Scanning Distance / Color Display / 3D Coordinates
7. Continuous & Single-shot Switch
8. Scan Settings
9. Scan Control Buttons
10. Model Hub

Helpful Screen Gestures

1. Swipe down from the top of the screen to display the Quick Settings menu.

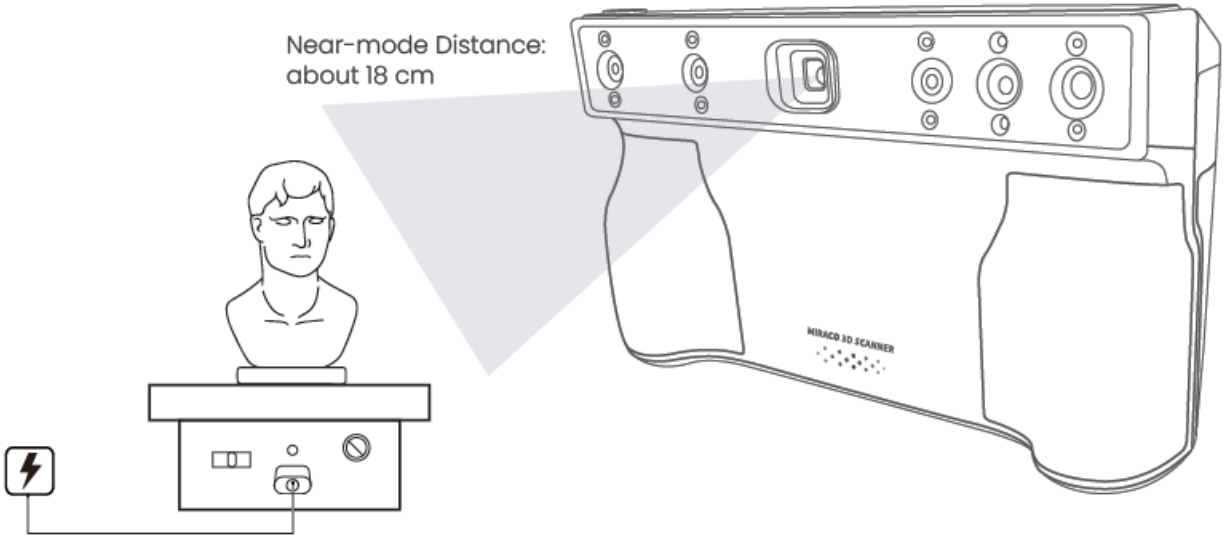


2. Screen Gestures for the Home or Post-processing page are as below:

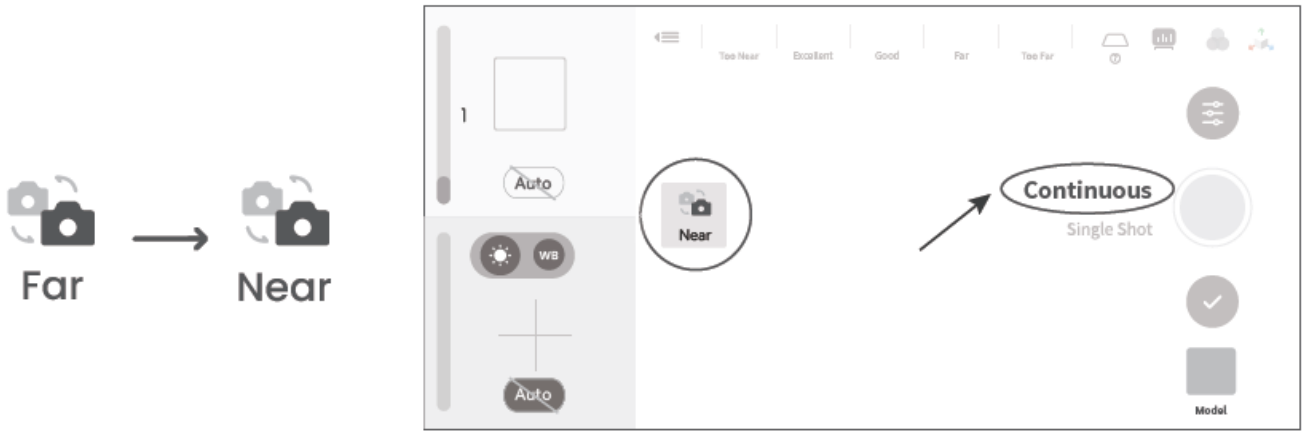


Scan

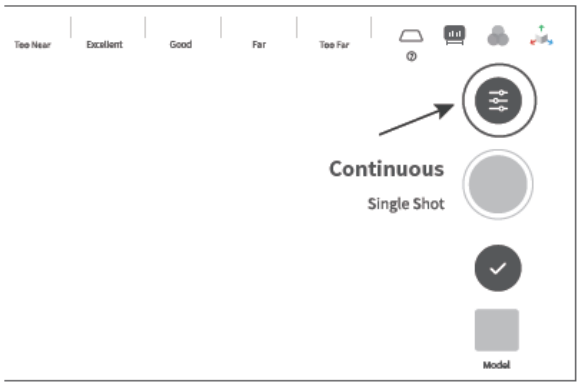
1. **Step 1: Instructions.**
   Read the instructions for [Scan Settings] and [Exposure Adjustment] on MIRACO when it is first activated.
2. **Step 2:** Set up a scanning environment.
   For the first scan, it is recommended to scan the Sample Bust included in the package. Find a tabletop free of any clutter, put the Sample Bust on the turntable, and ensure no unwanted objects are within the scanning area.

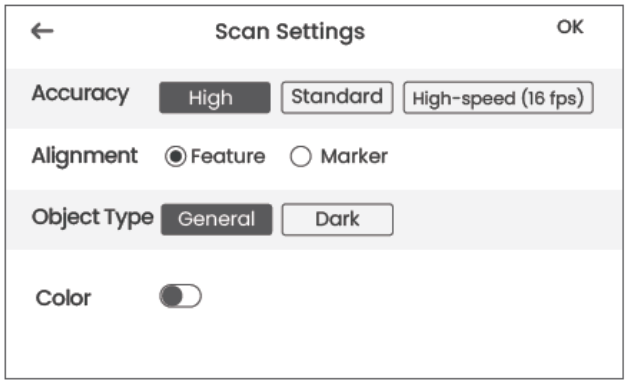


3. Step 3: Select a scanning mode.
   Selecting [Continuous] and [Near] modes to scan the Sample Bust is recommended.



4. **Step 4**: Scan settings before scanning.
   1. **Scan Settings**
      The recommended scan settings for Sample Bust are [High Accuracy], [Feature], [General], untoggled [Color].

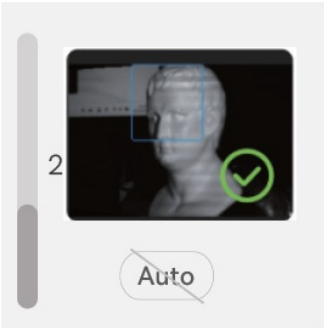




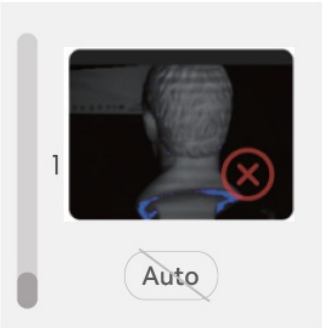
2. It's also recommended to [Base Revomal Off].

3. **Depth Cameras' exposure Adjustment**

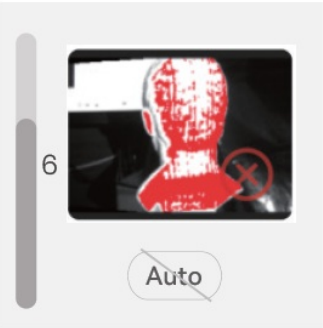
   It is recommended to disable [Auto] exposure for the Depth Cameras and manually adjust the exposure bar until there are minimal red or blue areas in the preview.



Correct Exposure



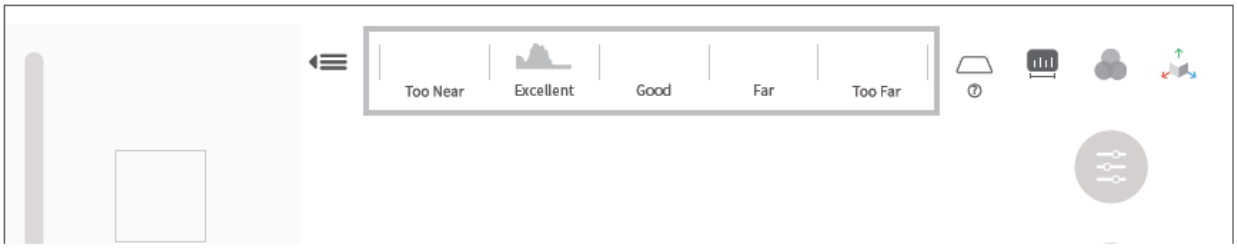
Underexposed



Overexposed

4. **Scan Distance Adjustment**

   Move MIRACO to adjust the distance between the scanner and the target object, ensuring the scanning distance indicator bar displays green.



Step 5: Start scanning.

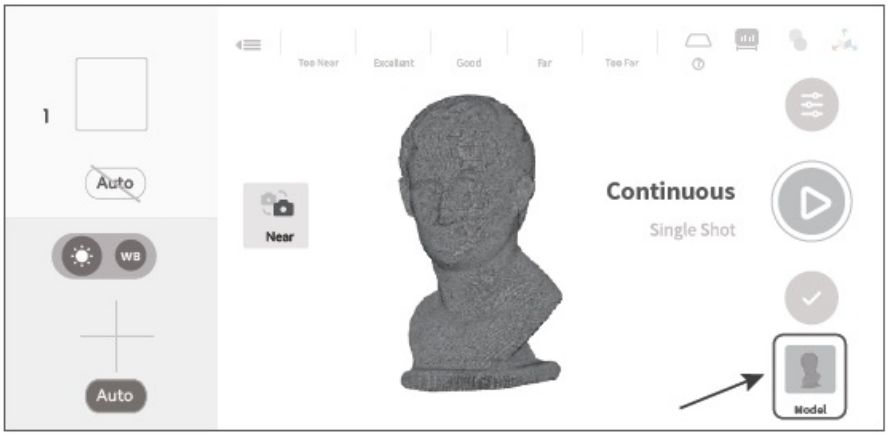
Tap the ● button to **Start**, and tap it again ⏸ to pause your scan as needed.

Step 6: Complete scanning.

Tap the [Complete] button ✓ to finish the scan when all data is captured.

Model Edit

Step 1: After completing the scan, tap the [Model] icon to edit it.



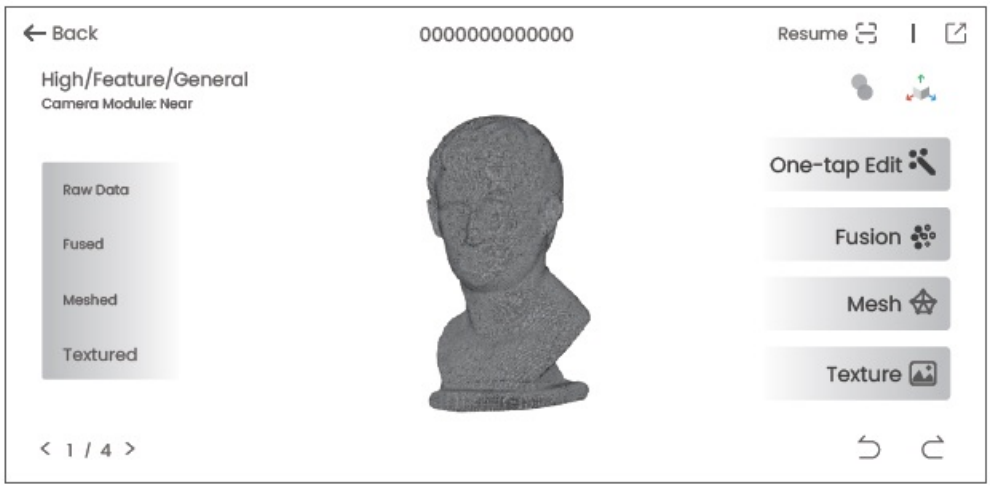
1. **One-tap Edit**

   Tap the [One-tap Edit] button to automatically perform point cloud Fusion, Mesh, and Texture (when Color mode is enabled).

   It’s recommended to select One-tap Edit for 3D scanner beginners.

2. **Manual Edit**

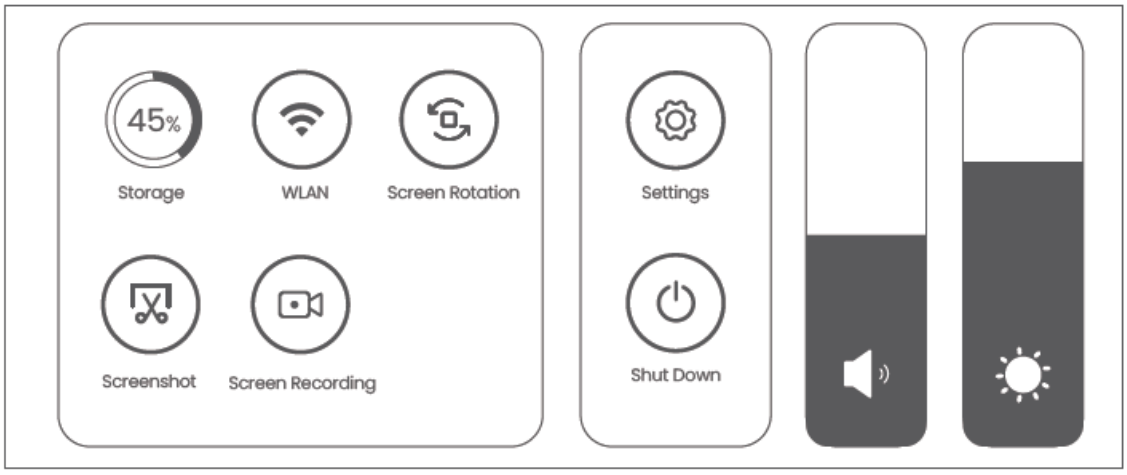
   Tap the [Fusion], [Mesh], [Texture] in sequence to adjust the corresponding parameters and process the scan.



Refer to Revopoint Official Website (**https://www.revopoint3d.com/pages/support-miraco**) for MIRACO's User Manual for detailed parameter adjustment.

Software Update

1. **Step 1**: Swipe down from the top of the screen, tap [Settings] > [WLAN], and connect to a network.



2. **Step 2:** Tap [Software Update] to check if a new version is available. If yes, tap [Download and Install] to update it.
3. **Step 3:** The update will install automatically. After the update, MIRACO will restart.

   Procedure:

   [Settings] > [WLAN] > Connect to a network > [Software Update] > [Download and Install] > MIRACO restarts

Skills

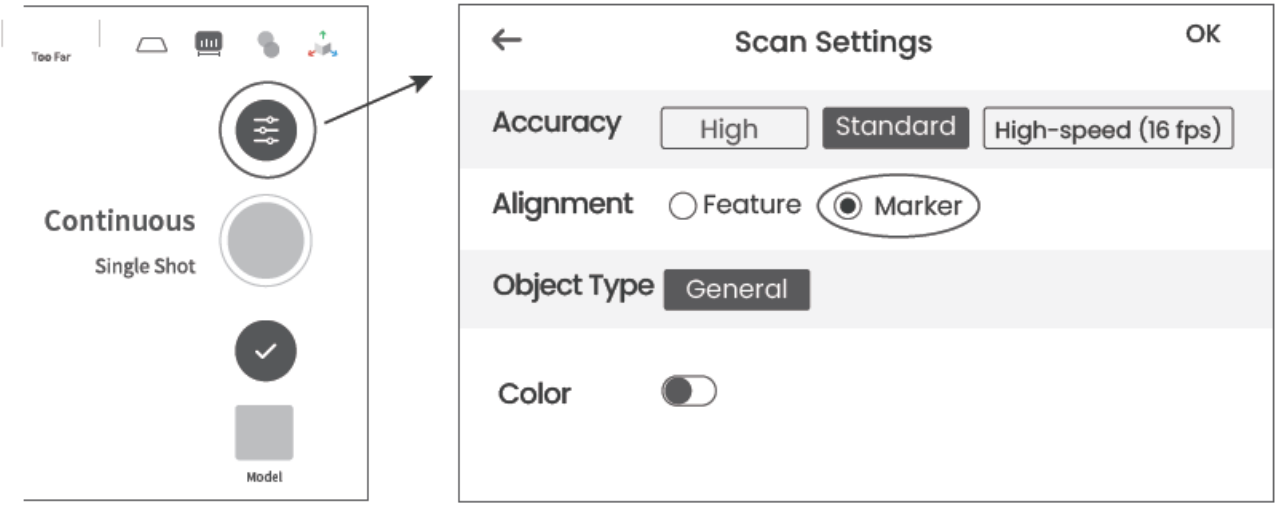
Using Single Shot Mode

1. **Step 1:** Tap [Single Shot] to switch to it.
2. **Step 2**: Adjust exposure and other scan parameters.
3. **Step 3**: Tap the capture button to record a single frame.

Scan the QR code for a Single-shot Video.

Using Marker Mode

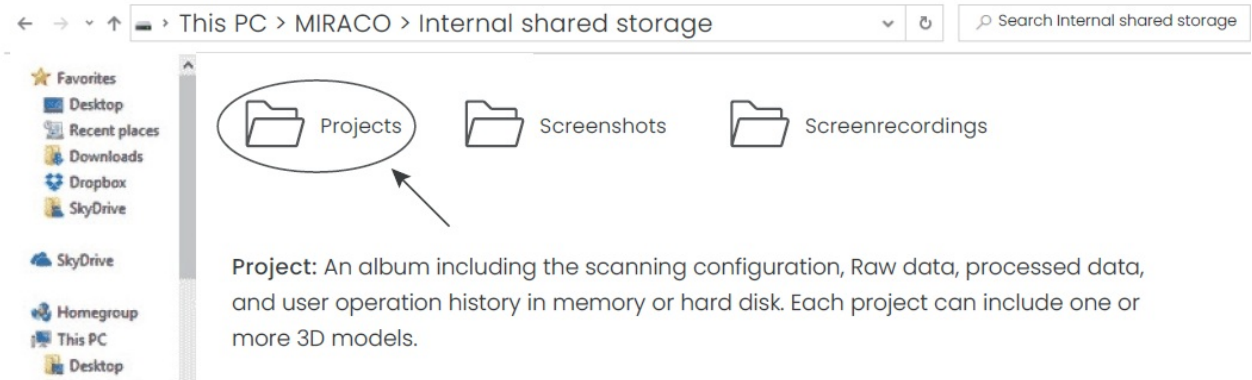
Scanning objects with simple geometric features, like a football or wine bottle, requires using Magic Mat, markers, or reference objects and scanning in Marker Alignment.
Adjust Scan Settings on MIRACO as below:



- Place the Markers (or Magic Mat under the object) on or around the objects' surface irregularly and ensure there are at least 5 Markers per frame for the entire scan, or the scanner will lose track.

File Transfers Via USB Cable

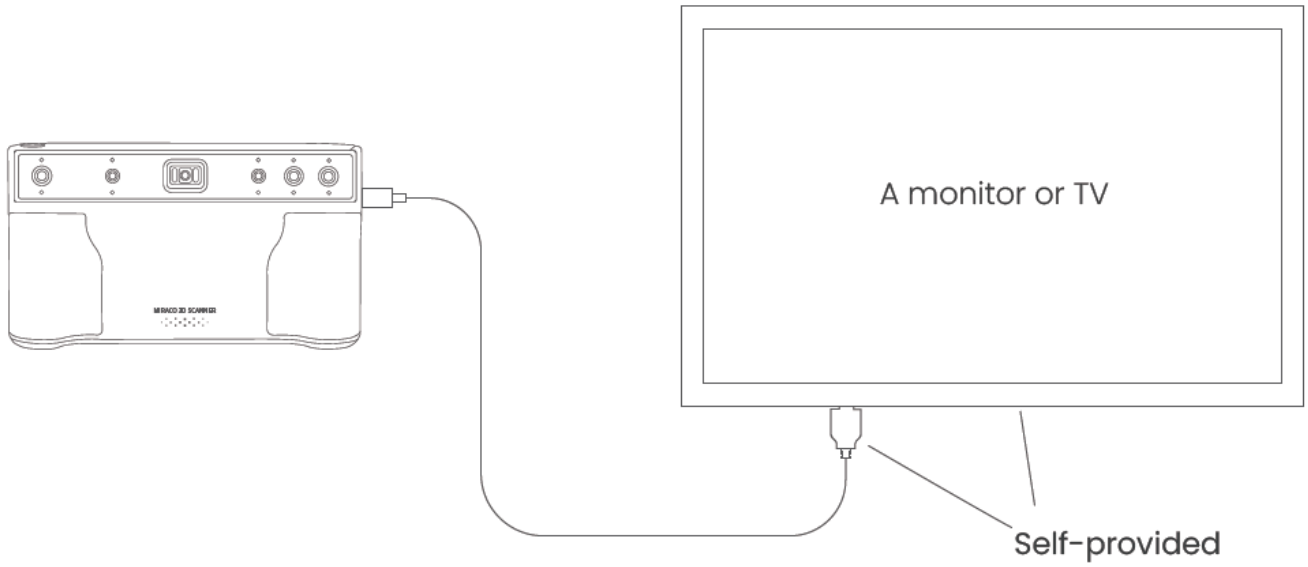
1. Step 1: Connect your MIRACO to a computer using the USB Type-C Cable.
2. Step 2: See the popup on MIRACO's screen and tap [Data Transfer].
3. Step 3: Find files on your computer.
    1. **Export Projects**
       Open Revo Scan 5 on your PC, and make sure it's V 5.4.1 or after. Check the target Projects and click Export on your PC.
       Note: Both Windows and macOS PCs are supported.
    2. **Find Screenshots and Screen Recordings (ONLY works on Windows PCs)**
       Windows: Right-click the Windows icon on the toolbar, then click File Explorer. Expand This PC, and locate your hard drive. Then, find the MIRACO. Copy MIRACO's data to your PC.
       Path: Windows icon —> File Explorer —>This PC —> MIRACO —> Internal shared storage —> Copy MIRACO's data



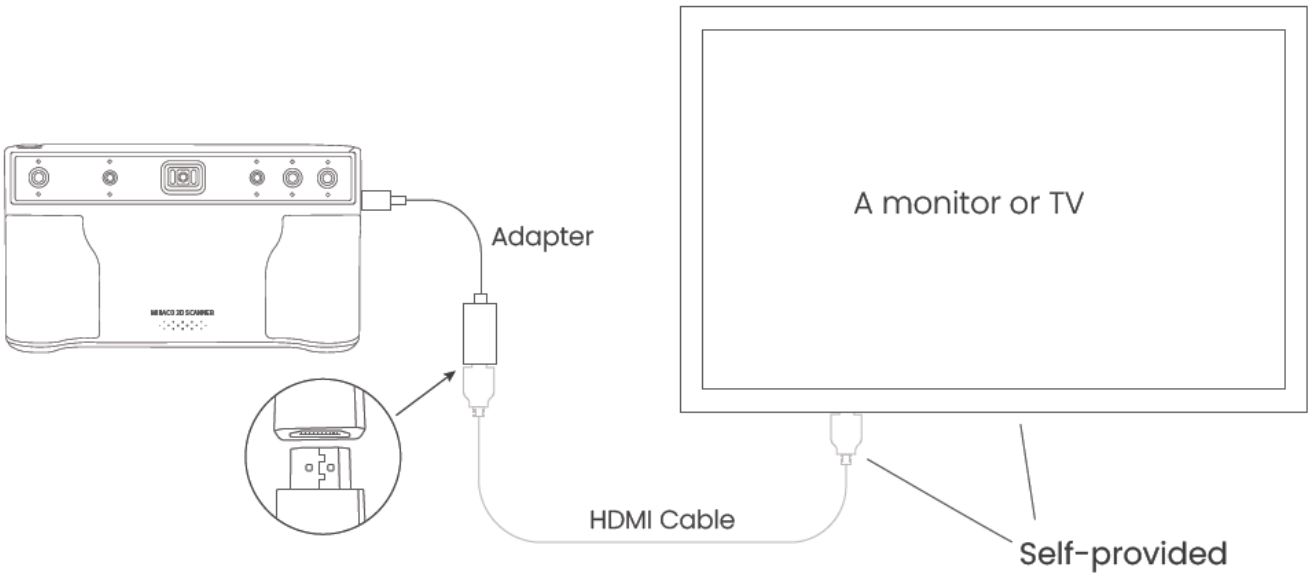
Connecting to an External Screen

MIRACO supports the DisplayPort (DP) interface by using the type-c port.

1. **Method 1:** A monitor or TV can be connected to MIRACO's Display Port (DP) via its USB Type-C port.



2. **Method 2:** Use the DP to HDMI Adapter (included with MIRACO Pro) to connect MIRACO to an HDMI cable on a TV or monitor.



Online Support

WE ARE HERE FOR YOU
Scan the QR code left with your phone and contact us for help.

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This content is subject to change.

Documents / Resources

	REVOPINT MIRACO Big And Small Object Standalone 3D Scanning [pdf] User Guide MIRACO Big And Small Object Standalone 3D Scanning, MIRACO, Big And Small Object Standalone 3D Scanning, Object Standalone 3D Scanning, Standalone 3D Scanning, 3D Scanning, Scanning

References

- Revopoint MIRACO 3D Scanner Support
- User Manual