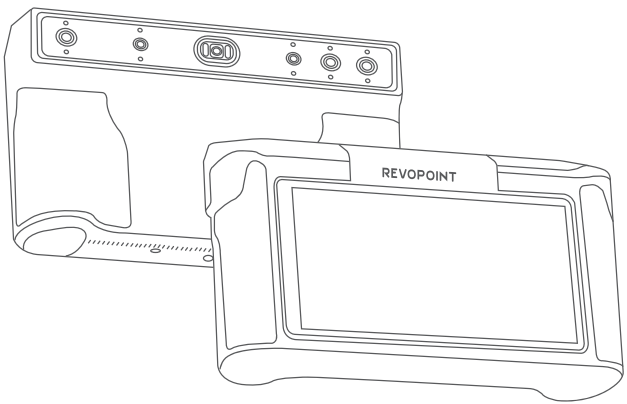
MIRACO 3D SCANNER

Quick Start Guide V1.0



REVOPOINT

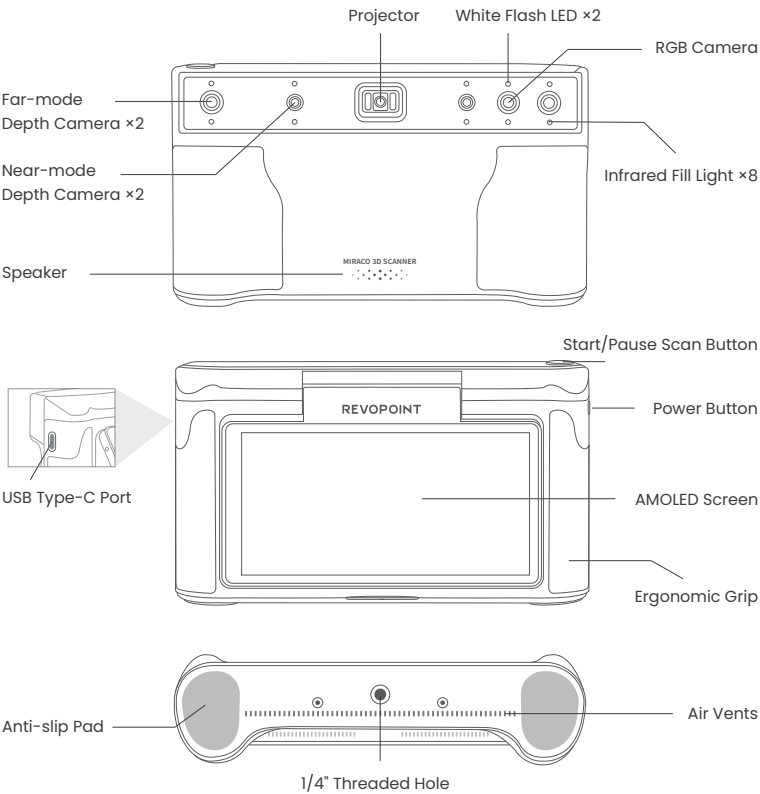
www.revopoint3d.com/pages/support-miraco

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.

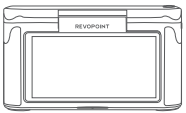
Contents

About MIRACO

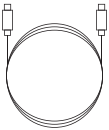
MIRACO is a versatile, all-in-one 3D scanner designed for professionals. Featuring a robust quad-depth camera system, it offers accuracy ranging from ultra-fine detail capture with a single-frame accuracy up to 0.05 mm to broader area scans with still remarkable accuracy. Its high-resolution RGB camera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



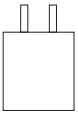
What's in the Box?



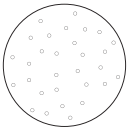
MIRACO 3D Scanner



USB Type-C to C Cable (1.8 m)



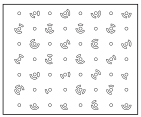
65W Dual USB Type-C Port Power Adapter



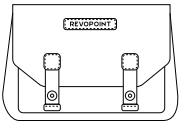
Turntable Topper

Mini Turntable

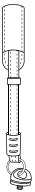
Turntable USB Cable



MIRACO Near-mode Calibration Board

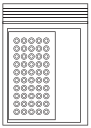


Scanner Bag



Wrist Strap

Tripod



Markers, Magic Mat ×2
Cleaning Cloth ×1

Sample Bust

Quick Start Guide
Certificate & Warranty Card

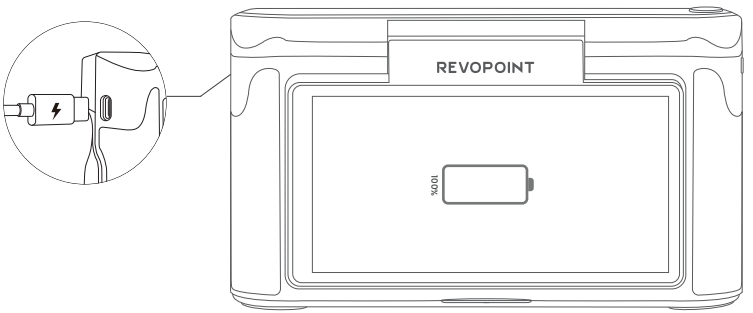
Note:

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.

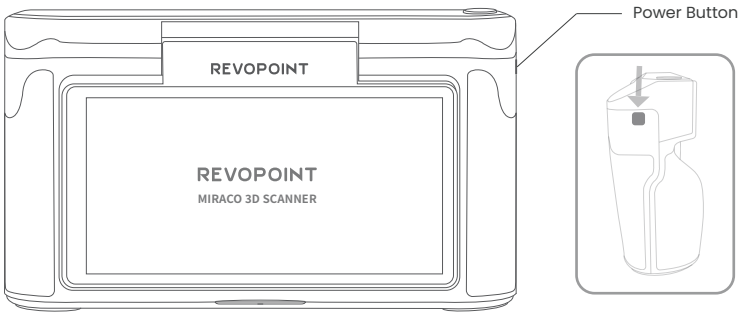
First Use

Unboxing and Setup

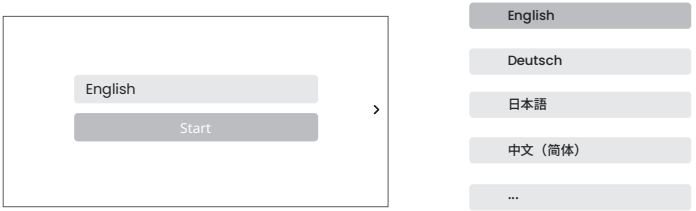
Step 1: For the first use, please charge the MIRACO to more than 60%.



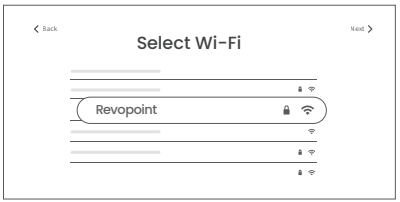
Step 2: Long-press the **Power Button** (5s) to turn on.



Step 3: Select a **language.**

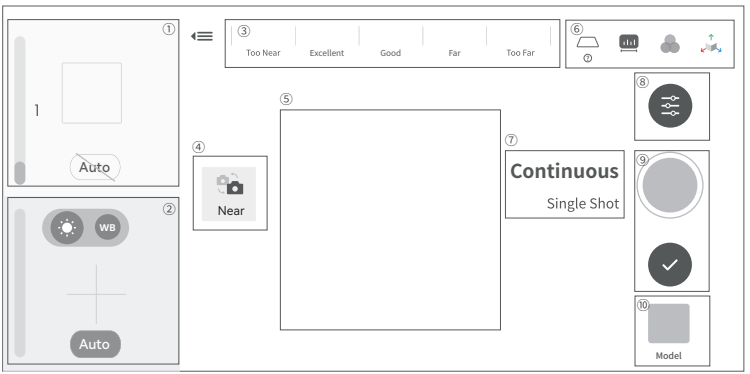


Step 4: Connect to a Wi-Fi **network** for project transfers and software update notifications.



Step 5: Adjust and confirm the **Date and Time**.

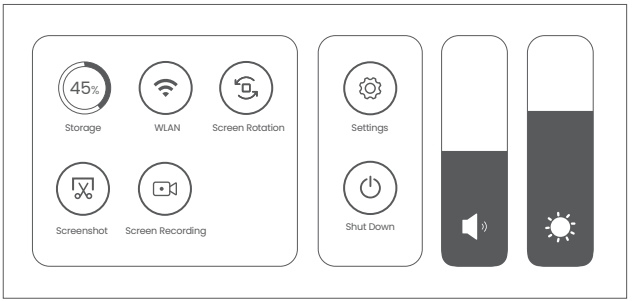
Step 6: Tap **Next** to enter the **Scan Interface**, and functions on this page display as below:



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:

One-finger Swipe:
Rotates the model on the screen.

Two-finger Drag:
Moves the model.

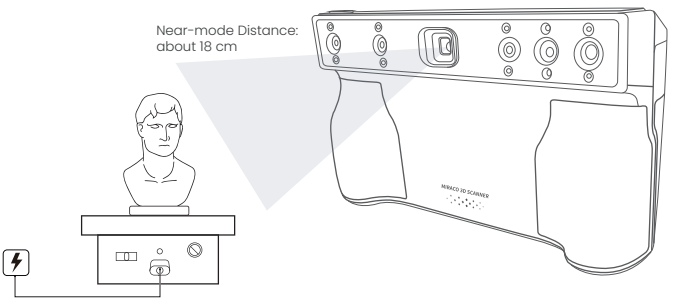
Pinch to Zoom:
Together to zoom out; apart to zoom in.

One-finger Drag:
Model selection.

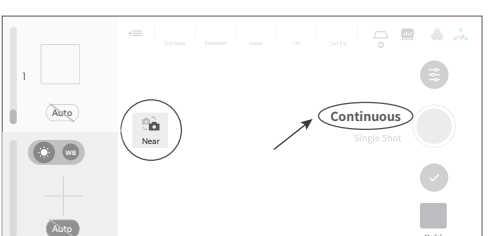
Scan

Step 1: Instructions.
Read the instructions for [Scan Settings] and [Exposure Adjustment] on MIRACO when it is first activated.

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.



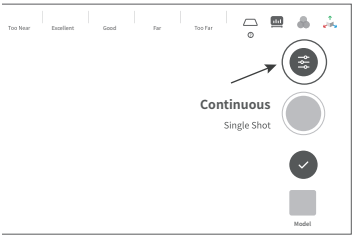
Step 3: Select a scanning mode.
Selecting [Continuous] and [Near] modes to scan the Sample Bust is recommended.

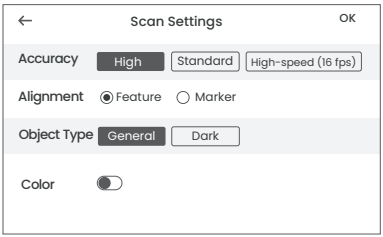


Step 4: Scan settings before scanning.

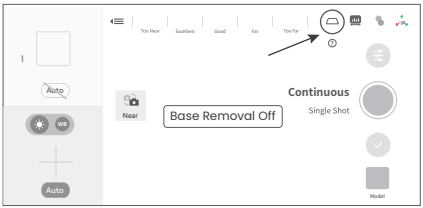
1) Scan Settings

The recommended scan settings for Sample Bust are [High Accuracy], [Feature], [General], untoggled [Color].



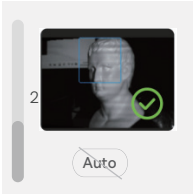


2) It's also recommended to [Base Revomal Off].

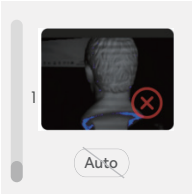


3) **Depth Cameras' exposure** Adjustment

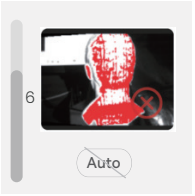
It is recommended to disable [Auto] exposure for the Depth Cameras and manually adjust the exposure bar until there are minimal red or blue areas in the preview.



Correct Exposure



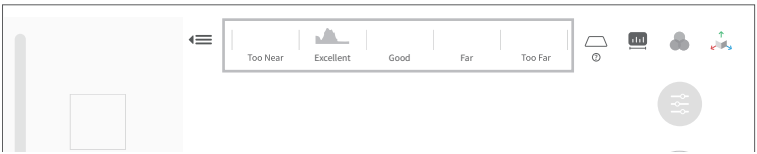
Underexposed



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.

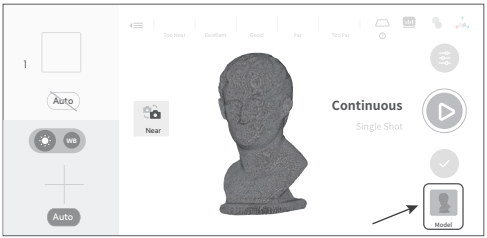
Tap the button to **Start**, and tap it again to pause your scan as needed.

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.



Step 2: One-tap Edit and **Manual Edit**

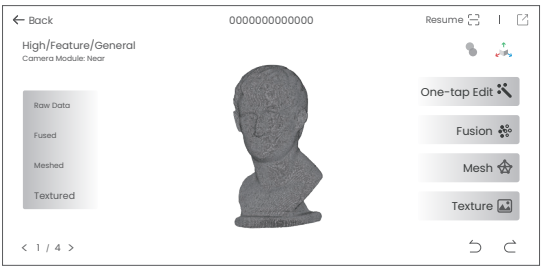
1) **One-tap Edit**

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**

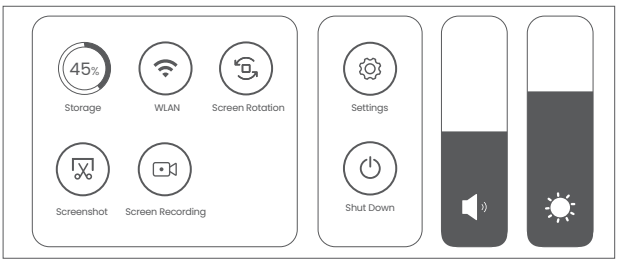
Tap the [Fusion], [Mesh], [Texture] in sequence to adjust the corresponding parameters and process the scan.



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

Software Update

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



Step 2: Tap [Software Update] to check if a new version is available. If yes, tap [Download and Install] to update it.
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

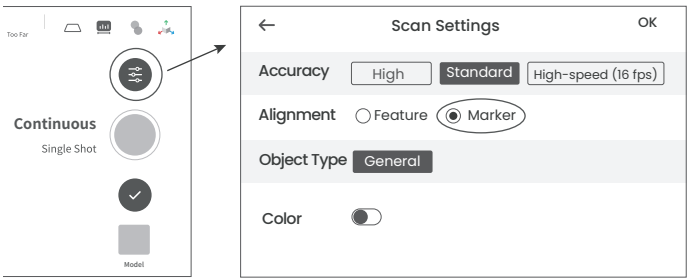
Using Single Shot Mode

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

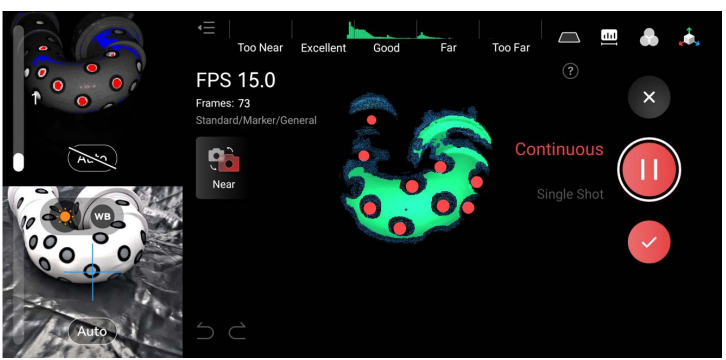
Scan the QR code for a Single-shot Video.

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

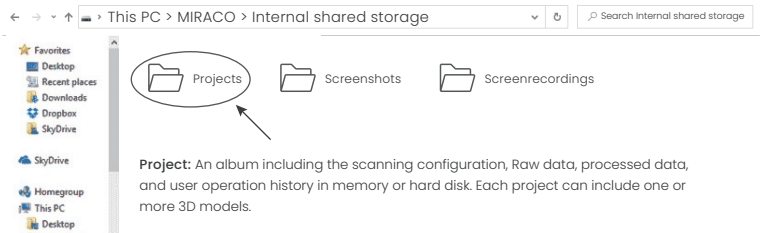
Step 1: Connect your MIRACO to a computer using the USB Type-C Cable.
Step 2: See the popup on MIRACO's screen and tap [Data Transfer].
Step 3: Find files on your computer.

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

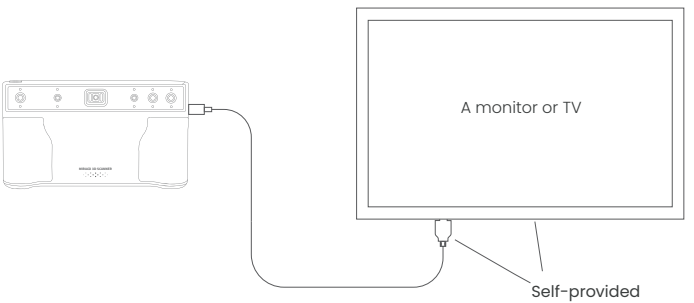


Project: An album including the scanning configuration, Raw data, processed data, and user operation history in memory or hard disk. Each project can include one or more 3D models.

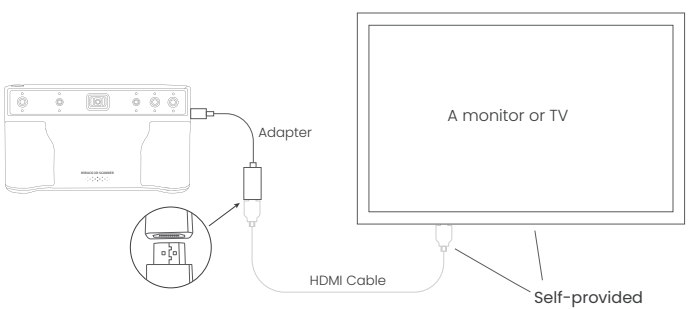
Connecting to an External Screen

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

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



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



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Forum

This content is subject to change.

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