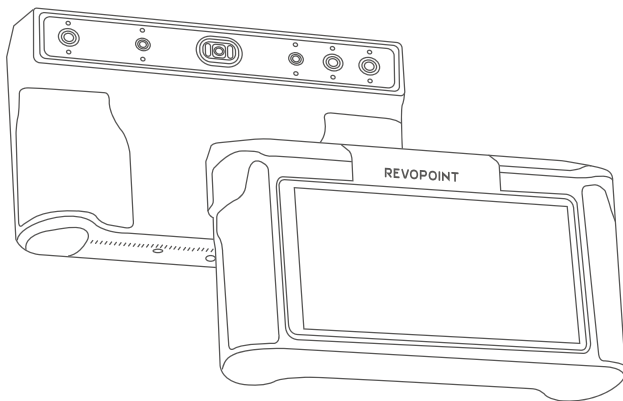


MIRACO 3D SCANNER

Quick Start Guide V3.2



Thank you for choosing a Revopoint 3D scanner! Please carefully read this Quick Start Guide before your first scan.

Go to the bottom of the Support – Download section on Revopoint’s website at www.revopoint3d.com to get the latest Quick Start Guide. For tutorial videos, you can also follow our YouTube account, Revopoint 3D.

This content is subject to change. Please refer to the latest version.



Please keep the scanner away from water and any other liquids, and avoid bashing the scanner.

This product's operating environment temperature range is 0°C to 40°C (32°F to 104°F).

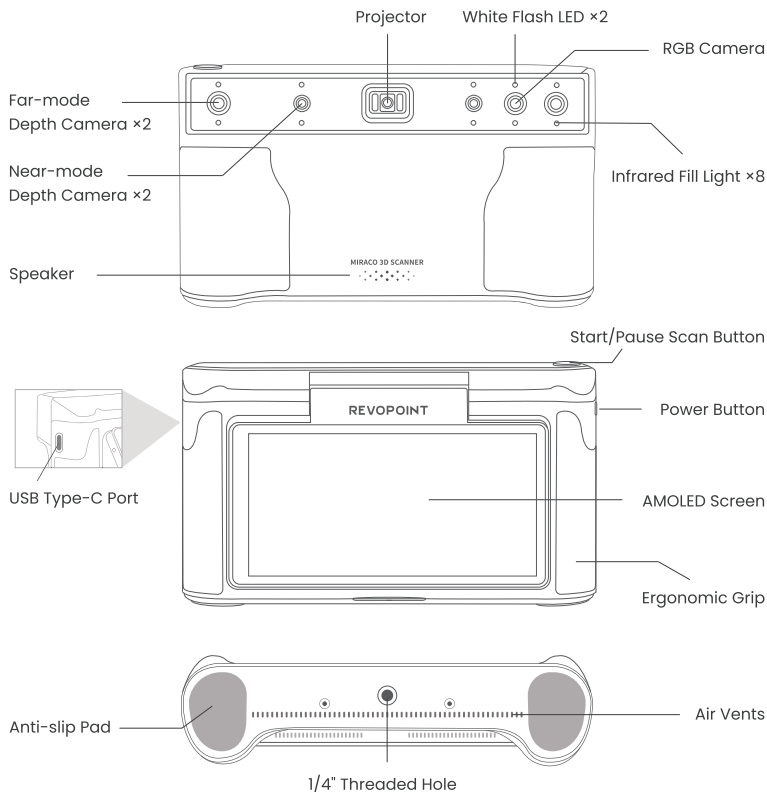
Please use the product only within this range.

Contents

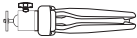
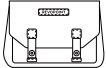
1. About MIRACO	01
2. What's in the Box	02
3. First Use	03
3.1 Unboxing and Setup	03
3.2 Helpful Screen Gestures	05
3.3 Scan	06
3.4 Model Edit	08
4. Software Update	09
5. Skills	10
5.1 Using Single Shot Mode	10
5.2 Using Markers	11
5.3 File Transfers Via USB Cable	12
5.4 Connecting to an External Screen	13
5.5 Scanner Calibration	14
IC Warning	15
FCC Warning	15

1. About MIRACO

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



2. What's in the Box

1  MIRACO 3D Scanner	2  Tripod	3  USB Type-C to C Cable (1.8 m)
4  65W Dual USB Type-C Port Power Adapter	5  Turntable Topper	6  Mini Turntable
7  Turntable USB Cable	8  MIRACO Near-mode Calibration Board	9  Sample Bust
10  Scanner Bag	11  Wrist Strap	12  Cleaning Cloth
13  Markers	14  USB Type-A to Type-C Adapter	15  Quick Start Guide Certificate & Warranty Card
16  USB Type-C to HDMI Adapter	17  Large Calibration-board Kit	

*For reference only.

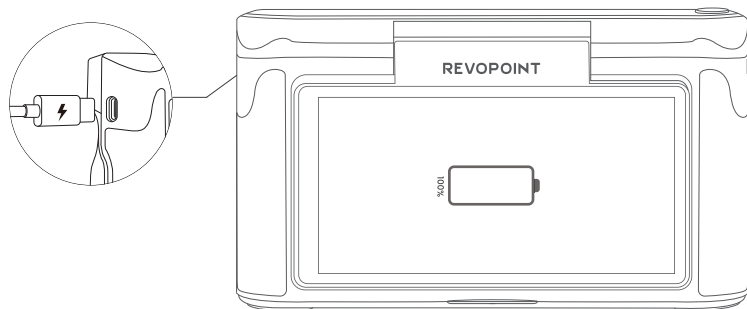
Note:

1. MIRACO has 16 GB of memory and MIRACO Pro has 32 GB of memory.
2. The Power Adapter may vary depending on the country or region.

3. First Use

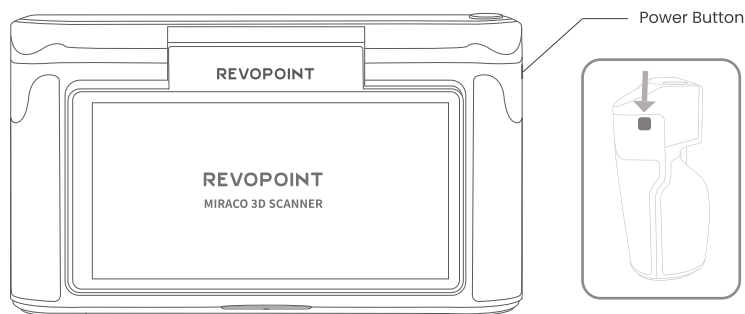
3.1 Unboxing and Setup

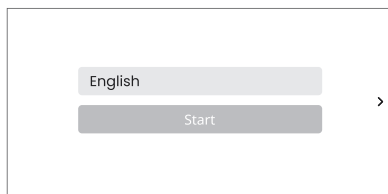
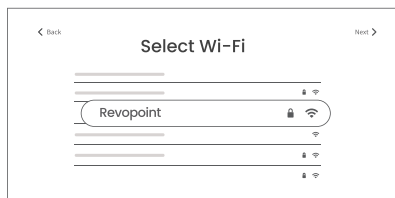
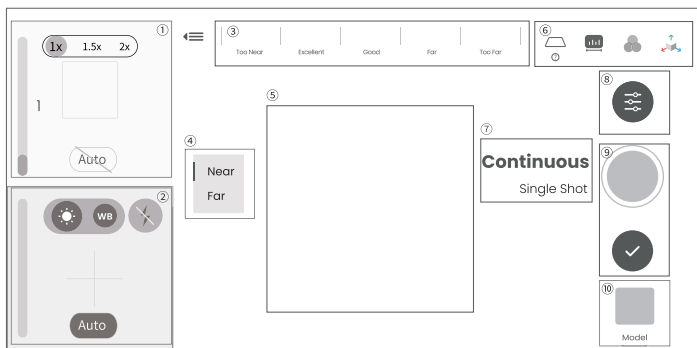
Step 1: For the first use, please charge the MIRACO to more than 60%.



Note: If you do not use MIRACO for a long time, please charge it regularly to avoid permanent damage to the battery.

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



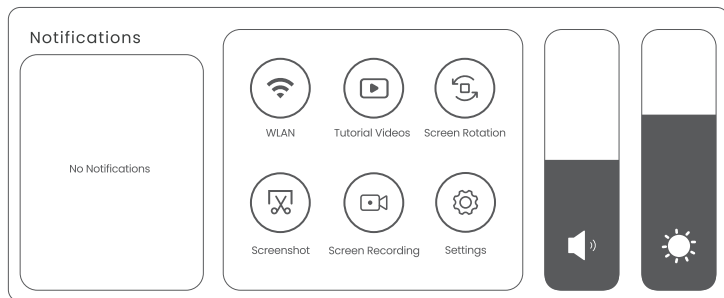
Step 3: Select a language.**Step 4: Connect to a Wi-Fi network** for project transfers and software update notifications.**Step 5: Adjust and confirm the Date and Time.****Step 6: Tap Next** to enter the **Scan Interface**. The elements in this interface are displayed below.

Note: The software is continuously updated. Please refer to the actual interface.

- 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

3.2 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.

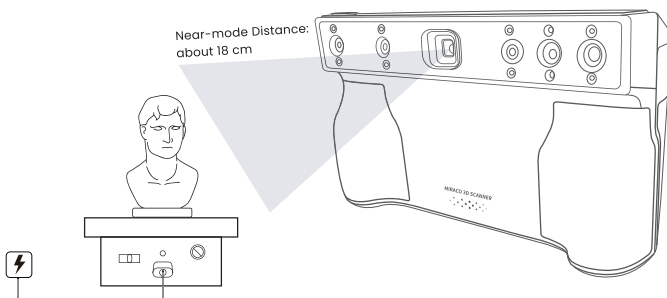
3.3 Scan

Step 1: Instructions.

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

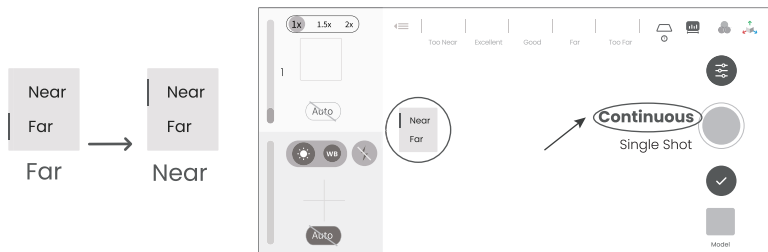
Step 2: Set up a scanning environment.

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.

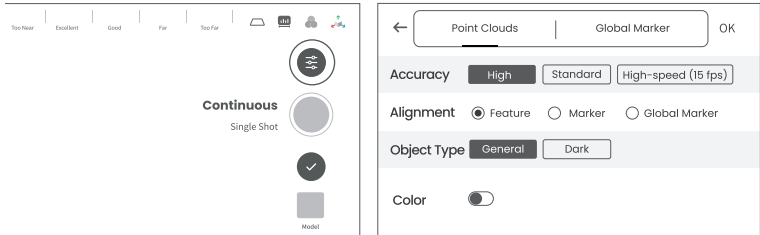
Selecting [Continuous] and [Near] modes to scan the Sample Bust is recommended.



Step 4: Scan settings before scanning.

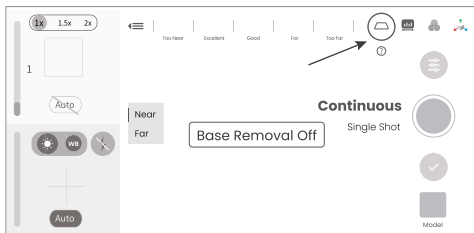
1) Scan Settings

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



Note: The software is continuously updated. Please refer to the actual interface.

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

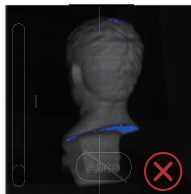


3) Depth Cameras' exposure Adjustment

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



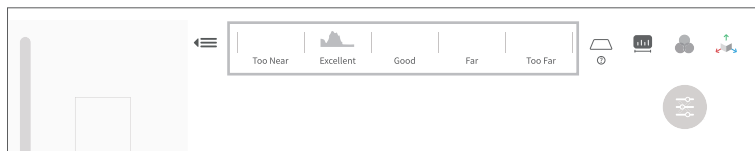
Underexposed



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.

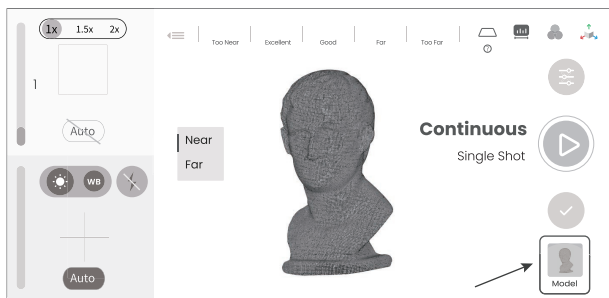
Tap the  button to **Start**, and tap it again  to pause your scan as needed.

Step 6: Complete scanning.

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

3.4 Model Edit

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



Step 2: One-tap Edit and Manual Edit

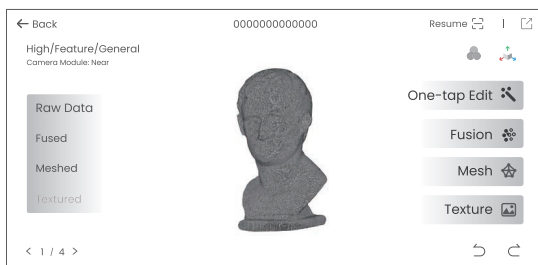
1) One-tap Edit

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 scanning beginners.

2) Manual Edit

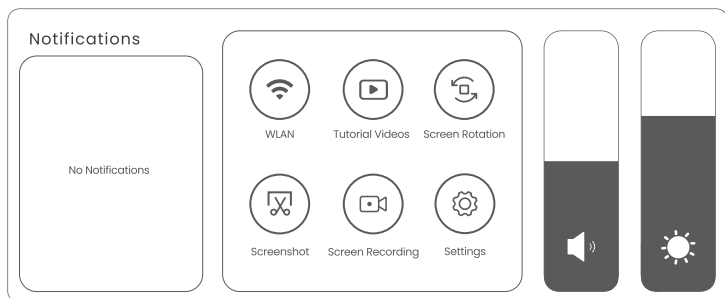
Tap the [Fusion], [Mesh], [Texture] in sequence to adjust the corresponding parameters and process the scan.



Refer to the Support section on Revopoint's Website at www.revopoint3d.com for MIRACO's detailed information.

4. 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

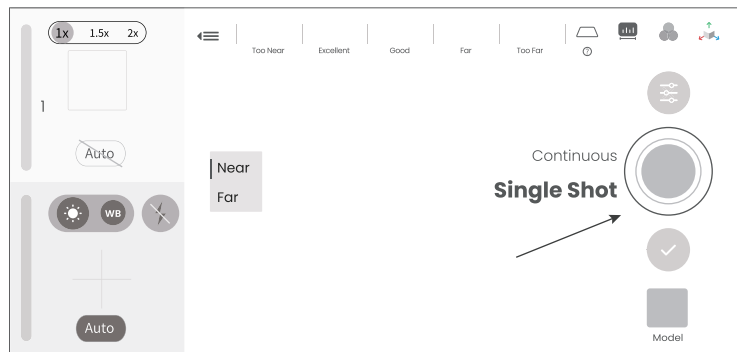
5. Skills

5.1 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.

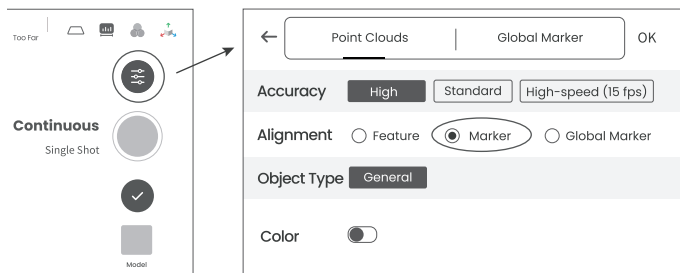
5.2 Using Markers

Scanning objects with simple geometric features requires placing the Markers on or around the objects irregularly and scanning in Marker or Global Marker mode.

Marker mode:

Scenarios: For featureless objects such as basketballs and plates.

Scanning flow: Stick markers – Select Point Clouds and Marker mode in Scan Settings – Set parameters and adjust scanning distance – begin your scan.

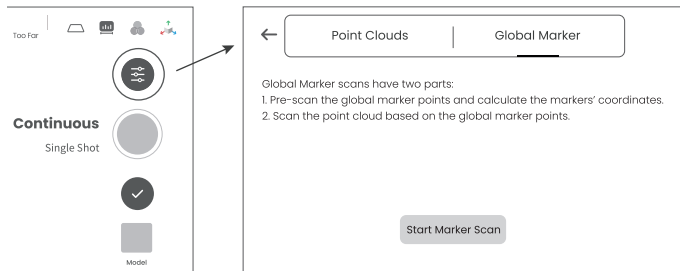


Note: The software is continuously updated. Please refer to the actual interface.

Global Marker mode:

Scenarios: Providing more accurate results when scanning featureless large objects such as cars and sofa.

Scanning flow: Stick markers – Select Global Marker in Scan Settings – Capture the markers to calculate the global marker coordinates – Scan the object based on the coordinates.



Note: The software is continuously updated. Please refer to the actual interface.

Please ensure there are at least 5 markers per frame during the scan, or the scanner will lose track.



5.3 File Transfers Via USB Cable

Method 1:

Step 1: Connect your MIRACO to a computer using the USB Type-C to C Cable.

Step 2: See the popup on MIRACO's screen. Tap [Data Transfer] and [OK].

Step 3: Open Revo Scan 5 on your PC (V5.4.1 or after) and a popup will be displayed.

Step 4: Tick the target files and export them on your PC.

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.

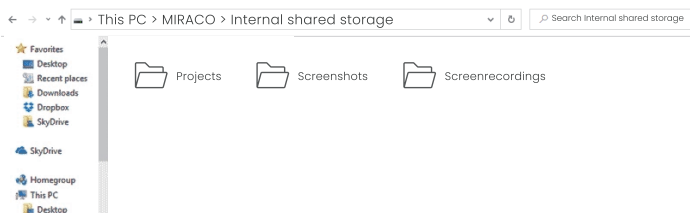
Method 2: (ONLY works on Windows PCs)

Step 1: Connect your MIRACO to a computer using the USB Type-C to C Cable.

Step 2: See the popup on MIRACO's screen. Tap [Data Transfer] and [OK].

Step 3: Click [This PC]>[MIRACO]>[Internal shared storage].

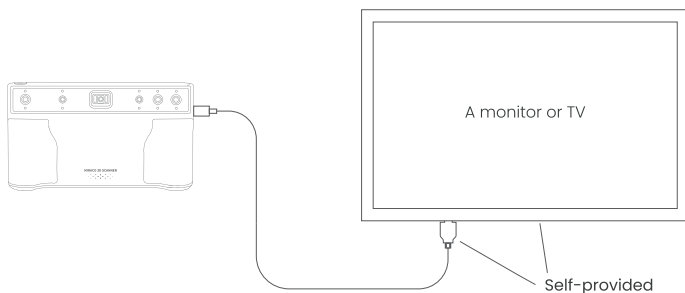
Step 4: Copy MIRACO's data to your PC from folders named [Projects], [ScreenRecordings], and [Screenshots].



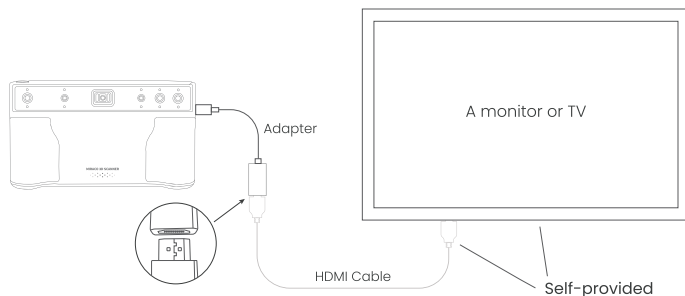
5.4 Connecting to an External Screen

MIRACO supports the DisplayPort (DP) interface by using the USB Type-C port.

Method 1: A monitor or TV can be connected to MIRACO's DisplayPort (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.



5.5 Scanner Calibration

Step 1: Download the latest version of Revo Scan from the Support - Download section on Revopoint's website: www.revopoint3d.com.

Step 2: Long press the MIRACO's Power Button (5s) to turn it on.

Step 3: When the Scan Interface appears, connect MIRACO to a USB 3.0 port on a PC using the USB Type-C to C Cable that came with your MIRACO (if using a USB Type-A to Type-C adaptor, ensure the adaptor supports USB 3.0).

Step 4: Select [Use MIRACO in PC Mode] and tap [OK], see Figure 1.

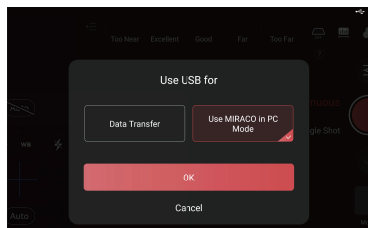


Figure 1

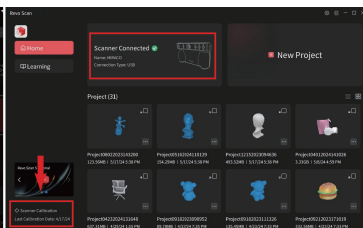
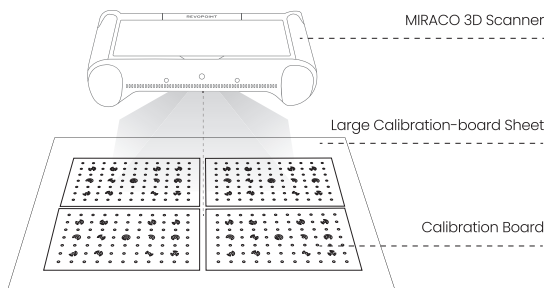


Figure 2

Step 5: When Revo Scan shows Scanner Connected, click [Scanner Calibration] on the bottom left corner of Revo Scan's Home page to enter the calibration process (see Figure 2). MIRACO's White Flash LEDs will be solidly lit until the calibration is finished.

Step 6: Complete the Near-mode and Far-mode cameras' accuracy check and calibration in sequence according to the on-screen instructions (The Far-mode Calibration Board is only included in the MIRACO Pro package. It can be purchased separately on Revopoint's online store.)

How to place the Far-mode Calibration Board:



Scan the QR Code to get the Calibration Tutorial.

IC Warning

This device complies with Industry Canada's license-exempt RSS standard (s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

IC RF Statement:

When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

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