REVOPOINT

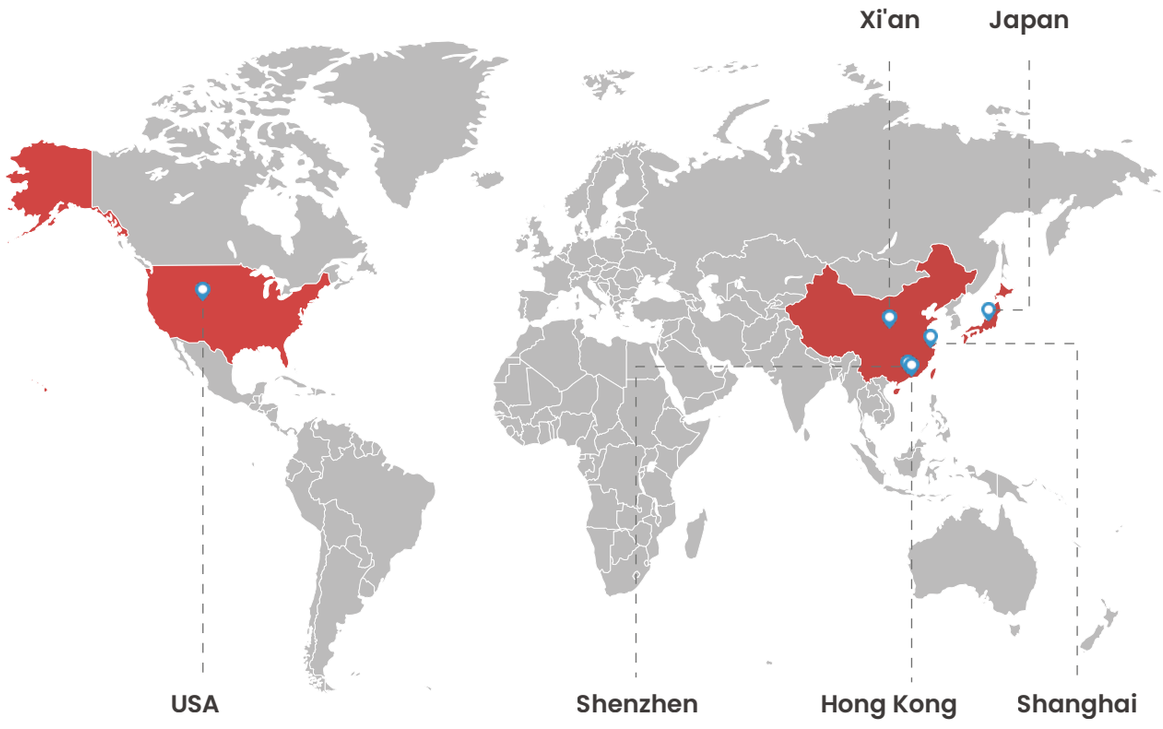
# Revopoint

We're advancing 3D scanning technology to make it accessible to everyone, inspiring the innovators of tomorrow.

# About Revopoint

Revopoint is a global leader in consumer-based 3D scanning technology designed to make 3D scanning accessible to people everywhere. Powered by robust R&D investment and state-of-the-art production processes, we've created cutting-edge technologies ranging from micro-structured optical chips to high-precision 3D vision algorithms.

We're focused on global growth, with our products already being used in over 150 countries. And with subsidiaries established in America and Japan and even more, planned in the future, we're ready to meet diverse needs and challenges.




**150 +**

Countries and Regions with Market Coverage

**100 +**

Patents and Innovations

**300 +**

Global Employees

**NO.1**

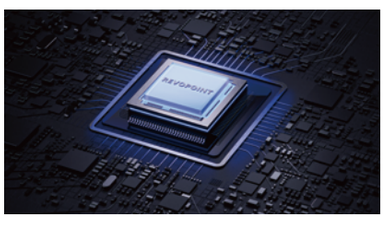
Backed Company in Kickstarter's 3D Category

**TOP**

Global 3D Scanner Seller

**10 Times**

More Modeling Efficiency for 150,000+ Creators



Self-developed Chips

High-precision 3D Scanning Technology

Diverse Product Range

# CONTENTS

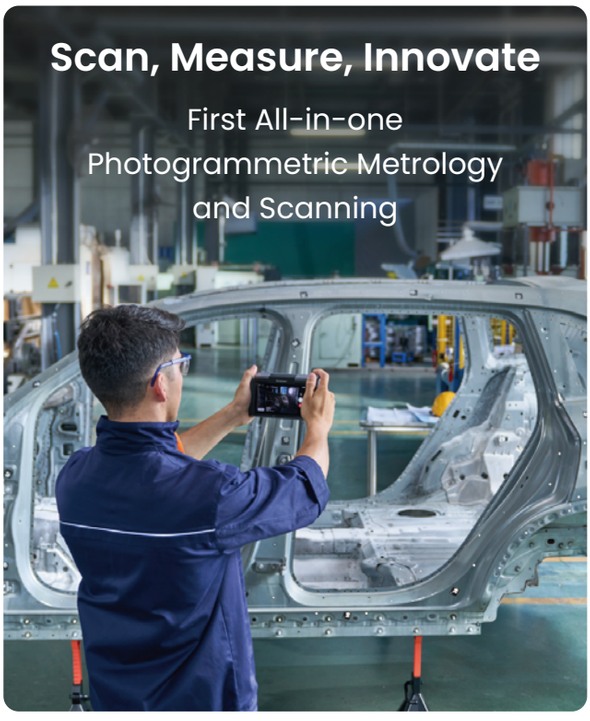
## MIRACO Plus


reddot winner 2024
best of the best

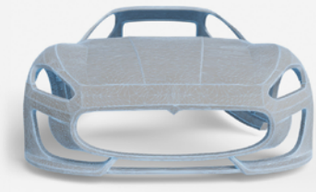
# MIRACO Plus 3D Scanner

### Everything in One Device: Scan, Measure, and Innovate

The ultra-high-resolution Photogrammetric Metrology Kit included with MIRACO Plus is essential for reducing cumulative errors in global point cloud stitching.

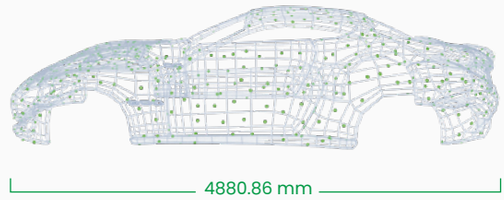



Single-frame Accuracy



Up to
**0.04 mm**

Photogrammetric Length Accuracy
**0.02 mm + 0.05 mm x L (m)**




## MIRACO Plus

**Photogrammetric Metrology**
High Accuracy 3D Measurement

**Up to 0.04 mm**
Single-frame Accuracy

**2x Optical Zoom**
Capture Finer Details

**Faster Scanning Speeds**
Up to 20 fps

**8K Color Capture**
48 Megapixels RGB Camera

**Two Capture Modes**
Single-shot & Continuous

**2K AMOLED**
180° Adjustable Screen

**Stabilized Scanning**
9-axis IMU

**5000 mAh**
Up to 2 Hours of Scan Time

# Specifications

| | |
|---|---|
| Product Name | MIRACO Plus 3D Scanner |
| Technology | Quad-camera Infrared Structured Light with Optical Zoom, and Ultra-resolution Photogrammetric Metrology |
| Single-frame Precision, up to① | 0.02 mm |
| Single-frame Accuracy, up to② | 0.04 mm |
| Photogrammetric Length Accuracy③ | 0.02 mm＋0.05 mm × L (m) |
| Fused Point Distance, up to | 0.05 mm |
| Working Distance | 100 - 1000 mm |
| Single Capture Area at Nearest Distance | 28 × 53 mm at 100 mm |
| Single Capture Area at Furthest Distance | 975 × 775 mm at 1000 mm |
| Minimum Scan Volume | 10 × 10 × 10 mm |
| Maximum Scan Volume | 4 × 4 × 4 m |
| Scanning Speed, up to | 20 fps |
| Camera Resolution, up to | Depth Camera: 2 Megapixels<br>RGB Camera: 48 Megapixels |
| CPU | 8 core ARM A76, 2.4 GHz, Mali G52 GPU |
| 3D Light Source④ | Class 1 Infrared Light |
| Memory (RAM) + Internal Storage | 32 GB + 256 GB |
| Fill Lights⑤ | Depth Camera: 8 \| RGB Camera: 2 |
| Position Sensors | 9-axis IMU |

**Notes:**

① ② Precision and Accuracy were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
③ L is the maximum measuring distance in meters.
④ Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.
⑤ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.

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best of the best


# MIRACO Pro 3D Scanner

## 3D Scanning Redefined

Featuring a robust quad-depth camera system, MIRACO Pro offers remarkable accuracy ranging from ultra-fine detail capture to broader area scans.

## Far-mode & Near-mode

Go Big, Go Small

Length: 12.95 m

Size: 9.97 × 51.2 mm

Up to **0.02 mm** Precision
**0.05 mm** Accuracy

## Two Capture Modes

· Continuous Mode


· Single-shot Mode

## MIRACO Pro

Up to 0.02 mm Precision
Up to 0.05 mm Accuracy

Up to 15 fps Scanning
Speeds

8K Color Capture
48 Megapixels RGB Camera

Two Capture Modes
Single-shot & Continuous

2K AMOLED
Flip 180°

Stabilized Scanning
9-axis IMU

Up to 2 Hours
of Scanning

Scanner Weight
Only 750 g

Wi-Fi 6

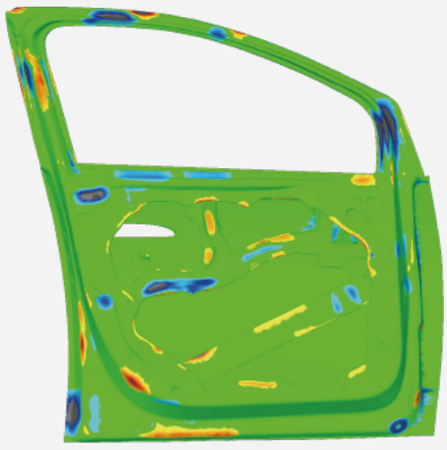
# Specifications

| | |
|---|---|
| Product Name | MIRACO Pro 3D Scanner |
| Technology | Quad-camera Infrared Structured Light |
| Single-frame Precision, up to① | 0.02 mm |
| Single-frame Accuracy, up to② | 0.05 mm |
| Fused Point Distance, up to | 0.05 mm |
| Working Distance | 100 - 1000 mm |
| Single Capture Area at Nearest Distance | 28 × 53 mm at 100 mm |
| Single Capture Area at Furthest Distance | 975 × 775 mm at 1000 mm |
| Minimum Scan Volume | 10 × 10 × 10 mm |
| Maximum Scan Volume | 4 × 4 × 4 m |
| Scanning Speed, up to | 15 fps |
| Camera Resolution, up to | Depth Camera: 2 Megapixels<br>RGB Camera: 48 Megapixels |
| CPU | 8 core ARM A76, 2.4 GHz, Mali G52 GPU |
| 3D Light Source③ | Class 1 Infrared Light |
| Memory (RAM) + Internal Storage | 32 GB + 256 GB |
| Fill Lights④ | Depth Camera: 8 \| RGB Camera: 2 |
| Position Sensors | 9-axis IMU |

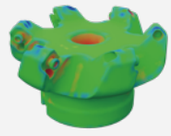
**Notes:**

① ② Precision and Accuracy were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
③ Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.
④ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.


Get professional 3D modeling with the Revopoint MetroX, a powerful metrological blue light scanning tool that makes it easy to 3D scan small to medium-sized objects.



## 4 Scanning Modes
## Metrology Grade Accuracy



Single-frame Precision:
Up to **0.01 mm**

Single-frame Accuracy:
Up to **0.03 mm**


### 14 Crossed Laser Lines

Scan Shiny or Black Surfaces

### 7 Parallel Laser Lines

Capture Complex Details

### 62 Line Full Field Structured Blue Light Scanning

Capture Point Cloud Efficiently


### Auto Turntable Mode

One-click Metrology Grade Models

## MetroX

Up to 0.03 mm Accuracy

14 Blue Laser Cross Lines

7 Blue Laser Parallel Lines

62 Line Blue Full-field Structured Light

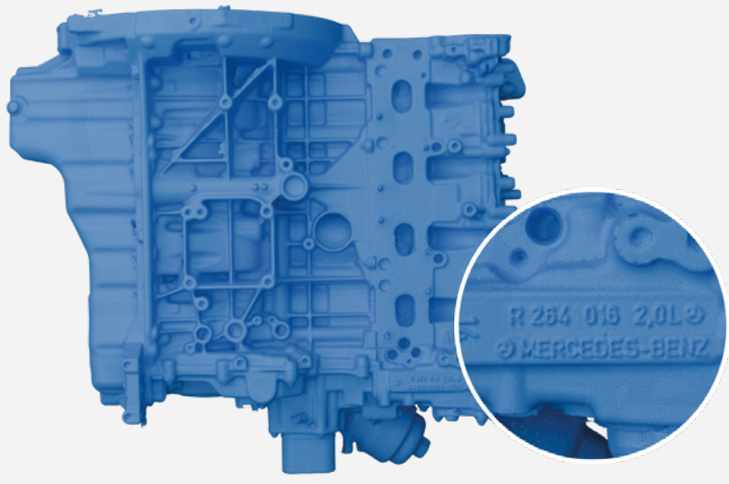
Automated Turntable Scan

Fast Scans Up to 7 Million Points/s

Only 508 g

RGB Camera

Easy to Control




677.85 mm

### Small to Medium Object Scanning

Less Noise, More Detail

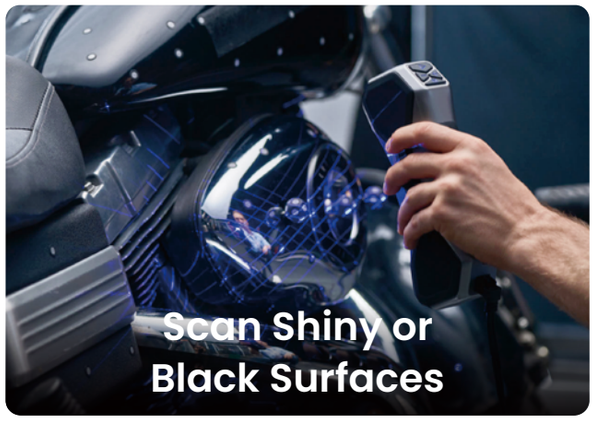
119.87 mm

### Get Scans Done Fast

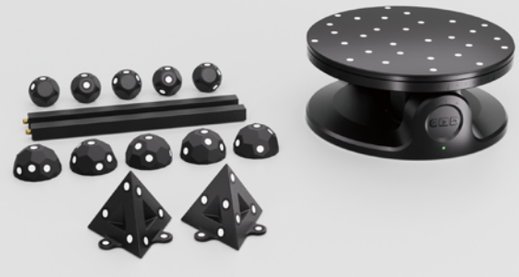
Up to **800,000** Points/s
in Multi-line Laser Mode

Up to **7,000,000** Points/s
in Full-field Structured Light Mode

**Flexible Single Capture Area**
160 × 70 mm at 200 mm
320 × 215 mm at 400 mm



**Scan Shiny or Black Surfaces**



**Rich and Portable Accessories**

# Specifications

| | |
|---|---|
| Product Name | MetroX 3D Scanner |
| Technology | Multi-line Laser Scan and Full-field Structured Light Scan |
| Single-frame Precision, up to① | 0.01 mm |
| Single-frame Accuracy, up to② | 0.03 mm |
| Volumetric Accuracy | 0.03 mm + 0.1 mm × L (m).<br>L is the length of the object |
| Fused Point Distance, up to | 0.05 mm |
| Working Distance | 200 - 400 mm |
| Single Capture Area at Nearest Distance | 160 × 70 mm at 200 mm |
| Single Capture Area at Furthest Distance | 320 × 215 mm at 400 mm |
| Minimum Scan Volume | 10 × 10 × 10 mm |
| Maximum Scan Volume | 1 × 1 × 1 m |
| Scanning Speed, up to | Multi-line Laser Scan:<br>800,000 Points/s<br>Full-field Structured Light Scan:<br>7,000,000 Points/s |
| 3D Light Source③ | 14 Blue Cross Laser Lines<br>7 Blue Parallel Laser Lines<br>62 Line Blue Full-field Structured Light |
| Camera Resolution, up to | Depth Camera: 2 Megapixels<br>RGB Camera: 2 Megapixels |
| CPU | 4 core ARM, 2.0 GHz |
| Depth Camera Fill Lights④ | 12 Blue LEDs |
| Dimensions (L × W × H) | 209 × 88 × 44 mm |

**Notes:**

① ② Precision is how close repeated measurements of the same object at a single angle are to each other. Accuracy is how close a measured value at a single angle is to the actual (true) value. They were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
③ The product uses Class 2M laser projector. Avoid looking directly at it at close range! Please refer to the Class 2M laser standard document for details. To avoid retina damage, don't look directly into the laser beam through optical instruments capable of magnifying it.
④ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.


## Metrology-grade Precision

Up to **0.02 mm**
Single-frame Precision


## 2 Megapixels

Uniform Color
Scans


## Extended Single Capture Range

52 × 64 mm at 120 mm
168 × 132 mm at 250 mm

## Faster Connectivity

USB Type-C + Wi-Fi 6

# Specifications

| | |
|---|---|
| Product Name | MINI 2 3D Scanner |
| Technology | Dual-camera Blue Structured Light |
| Single-frame Precision, up to① | 0.02 mm |
| Single-frame Accuracy, up to② | 0.05 mm |
| Fused Point Distance, up to | 0.02 mm |
| Working Distance | 120 - 250 mm |
| Single Capture Area at Nearest Distance | 52 × 64 mm at 120 mm |
| Single Capture Area at Furthest Distance | 168 × 132 mm at 250 mm |
| Minimum Scan Volume | 10 × 10 × 10 mm |
| Maximum Scan Volume | 0.5 × 0.5 × 0.5 m |
| Scanning Speed, up to | 16 fps |
| Camera Resolution, up to | Depth Camera: 2 Megapixels<br>RGB Camera: 2 Megapixels |
| CPU | 2 core, 1.8 GHz |
| 3D Light Source③ | Class 1 Blue Light |
| Fill Lights④ | Depth Camera: 4 \| RGB Camera: 2 |
| Position Sensors | 9-axis IMU |

**Notes:**

① ② Precision and Accuracy were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
③ Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.
④ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.

## POP 3 Plus

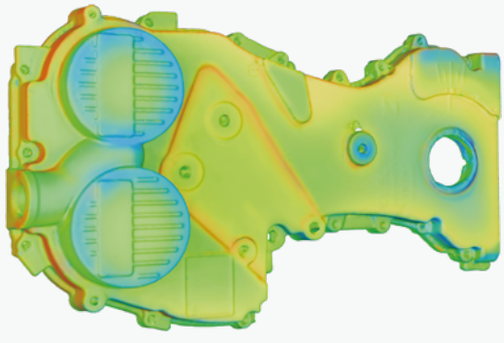
# POP 3 Plus 3D Scanner

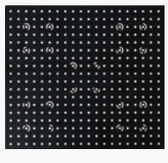
Every Detail Optimized

The POP 3 Plus updates the POP series with 20% better accuracy and precision, and with its new optical projector zoom, it's ready to capture finer details.

## Single-frame Precision

Up to **0.04 mm**





**New Calibration Board**

**20%** Better Accuracy and Precision

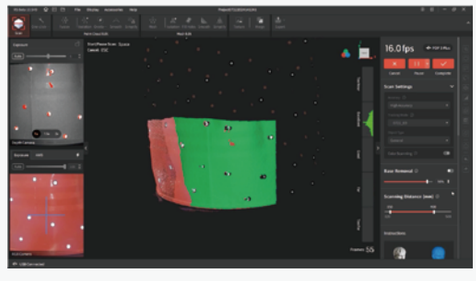
## Better Detail Capture

Up to **×2 Optical Zoom**

×1 ×1.5 ×2

## Better Marker Tracking

Global Marker Tracking Mode

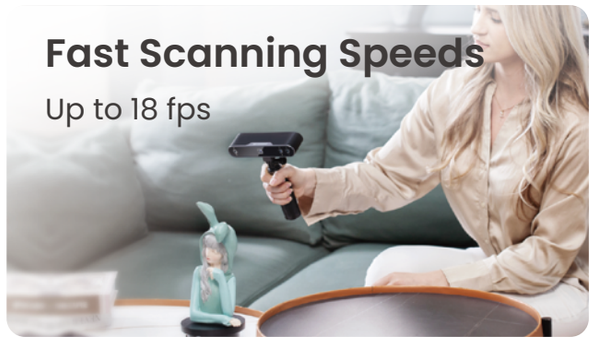


## IR + RGB Fill Lights

Create Full-color 3D Models

## Fast Scanning Speeds

Up to 18 fps



# Specifications

| | |
|---|---|
| Product Name | POP 3 Plus 3D Scanner |
| Technology | Dual-camera Infrared Structured Light |
| Single-frame Precision, up to① | 0.04 mm |
| Single-frame Accuracy, up to② | 0.08 mm |
| Fused Point Distance, up to | 0.05 mm |
| Working Distance | 150 - 400 mm |
| Single Capture Area at Nearest Distance | 61 × 68 mm at 150 mm |
| Single Capture Area at Furthest Distance | 244 × 180 mm at 400 mm |
| Minimum Scan Volume | 20 × 20 × 20 mm |
| Maximum Scan Volume | 2 × 2 × 2 m |
| Scanning Speed, up to | 18 fps |
| Camera Resolution, up to | Depth Camera: 1 Megapixels<br>RGB Camera: 1 Megapixels |
| CPU | 2 core, 1.6 GHz |
| 3D Light Source③ | Class 1 Infrared Light |
| Fill Lights④ | Depth Camera: 4 \| RGB Camera: 2 |
| Position Sensors | 9-axis IMU |

**Notes:**

① ② Precision and Accuracy were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
③ Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.
④ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.

# RANGE 2 3D Scanner

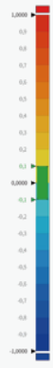
## Broader Vision Boundless Creation

Revopoint RANGE 2 is a portable handheld structured infrared light 3D scanner for capturing large objects.

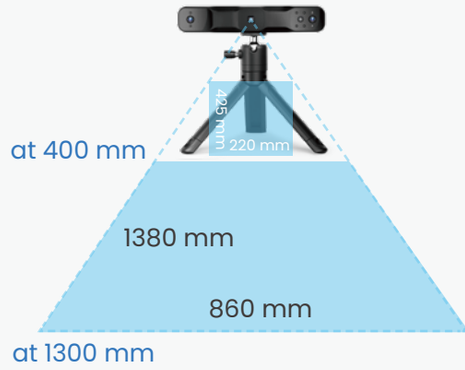
## Reliability Matters

Up to **0.1 mm**

Single-frame Precision

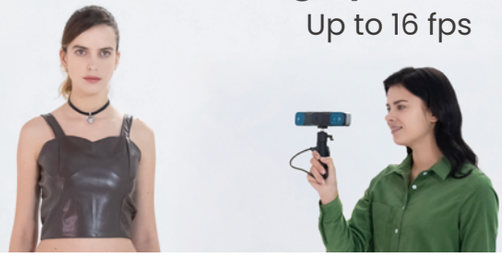


## Bigger Capture




## Fast Scanning Speeds

Up to 16 fps



## Greater Control

Effortless Button Control

## USB Type-C
## Wi-Fi 6

## 4 Flash LEDs

# Specifications

| | |
|---|---|
| Product Name | RANGE 2 3D Scanner |
| Technology | Dual-camera Infrared Structured Light |
| Single-frame Precision, up to① | 0.1 mm |
| Single-frame Accuracy, up to② | 0.3 mm |
| Fused Point Distance, up to | 0.1 mm |
| Working Distance | 400 - 1300 mm |
| Single Capture Area at Nearest Distance | 220 × 425 mm at 400 mm |
| Single Capture Area at Furthest Distance | 860 × 1380 mm at 1300 mm |
| Minimum Scan Volume | 50 × 50 × 50 mm |
| Maximum Scan Volume | 4 × 4 × 4 m |
| Scanning Speed, up to | 16 fps |
| Camera Resolution, up to | Depth Camera: 2 Megapixels<br>RGB Camera: 2 Megapixels |
| CPU | 2 core, 1.8 GHz |
| 3D Light Source③ | Class 1 Infrared Light |
| Fill Lights④ | Depth Camera: 4 \| RGB Camera: 4 |
| Position Sensors | 9-axis IMU |

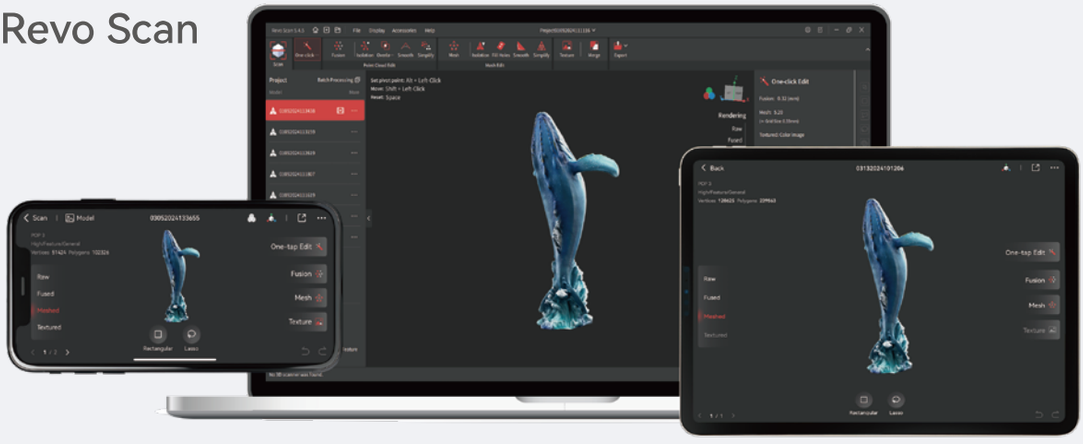
**Notes:**

① ② Precision and Accuracy were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
③ Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.
④ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.

## Revo Scan 5

Windows macOS iOS Android

Revo Scan



One-click Post-processing

Runs on Nearly Everything

Intuitively control your scans and edit your data using the free Revo Scan software. It's compatible with iOS, Android, Windows, and macOS devices and supports STL, PLY, OBJ, ASC, 3MF, GLTF, and FBX file formats for seamless workflows with most CAD, 3D modeling, and slicer software.

### One-click Editing

User-friendly post-processing operations.

### Key Frame Editing

Edit raw data frame by frame.

### Powerful Model Editing

Support point cloud and mesh editing.

### Useful Tools

Rectangular Selection, Polygon Selection, Lasso Selection, Select Connection, and so on.

### Multi-format Export

Export your models in PLY, OBJ, STL, ASC, 3MF, GLTF, or FBX formats.

### Multi-language

Offers 12 languages, including English, Spanish, and German.

### Free to Download and Update

Download for free from Revopoint's website. It's continuously updated with new features.

### Full Documentation

Provide tutorial videos and user manuals on the Learning page.

# Applications

Healthcare

Historical Artifact Protection

Industrial Inspection

Reverse Engineering

3D Printing

Product Design

# Accessories


## Large Turntable

Easily scan large objects or people. It supports a 200 kg max load and has a powerful motor that maintains smooth rotation at 35-90 seconds per rotation.

## Dual-axis Turntable

Simplify the scanning process and eliminate the need for object repositioning during scanning. Adjustable speed, rotation, 30° tilt, and 5 kg max load.

## Handheld Stabilizer

Powerful gyroscopes provide high-precision stabilization for handheld 3D scanning, helping to avoid loss of tracking and providing a smoother scan.

## Mobile Kit

Attach this Handheld Power Bank to your scanner for up to 3 hours of conveniently powered on-the-go mobile scanning.

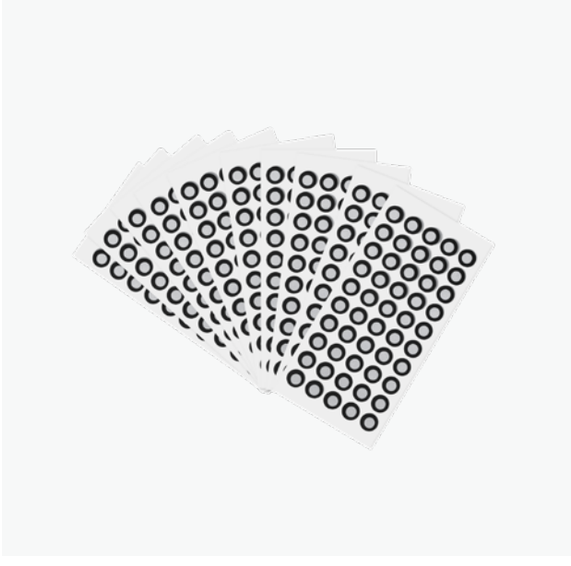
# Accessories

## Marker Block Kit

Helps set up a better marker scanning environment to support Marker Tracking alignment. Additionally, the marker blocks are reusable and can be freely combined.

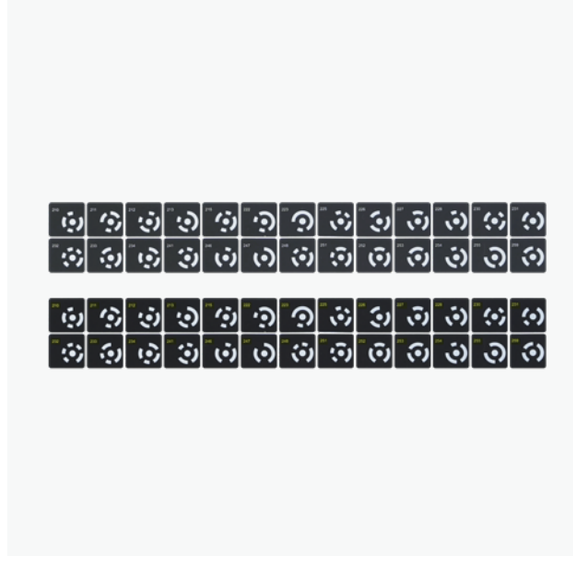

## Scanning Spray

Make transparent, reflective, or dark objects scannable with a micron-thin matte coating. It evaporates in 6 hours and is machine-safe.



## High-reflective Markers

Essential for scanning featureless objects. Stick on or around the objects' surfaces randomly to help marker alignment.



## Coded Targets(Sticky/Magnetic)

Each coded target has a unique ID to provide accurate coordinates during a photogrammetric scan, ensuring high accuracy for large object measurements.

## Scanner Overview

| Product Name |  **MIRACO Plus** |  **MIRACO Pro** |  **MetroX** |
|---|---|---|---|
| Technology | Quad-camera Infrared Structured Light with Optical Zoom, and Ultra-resolution Photogrammetric Metrology | Quad-camera Infrared Structured Light | Multi-line Laser Scan and Full-field Structured Light Scan |
| Scannable Object Size | Small to Large | Small to Large | Small to Medium |
| Single-frame Precision up to | 0.02 mm | 0.02 mm | 0.01 mm |
| Single-frame Accuracy up to | Single-frame Accuracy, up to: 0.04 mm Photogrammetric Length Accuracy: 0.02 mm+0.05 mm × L (m) | 0.05 mm | Single-frame Accuracy, up to: 0.03 mm Photogrammetric Length Accuracy: 0.03 mm + 0.1 mm × L (m) |
| Fused Point Distance up to | 0.05 mm | 0.05 mm | 0.05 mm |
| Working Distance | 100 - 1000 mm | 100 - 1000 mm | 200 - 400 mm |
| Single Capture Area at Nearest Distance | 28 × 53 mm at 100 mm | 28 × 53 mm at 100 mm | 160 × 70 mm at 200 mm |
| Single Capture Area at Furthest Distance | 975 × 775 mm at 1000 mm | 975 × 775 mm at 1000 mm | 320 × 215 mm at 400 mm |
| Minimum Scan Volume | 10 × 10 × 10 mm | 10 × 10 × 10 mm | 10 × 10 × 10 mm |
| Maximum Scan Volume | 4 × 4 × 4 m | 4 × 4 × 4 m | 1 × 1 × 1 m |
| Scanning Speed, up to | 20 fps | 15 fps | Multi-line Laser Scan: 800,000 Points/s Full-field Structured Light Scan: 7,000,000 Points/s |
| 3D Light Source | Class 1 Infrared Light | Class 1 Infrared Light | 14 Blue Cross Laser Lines 7 Blue Parallel Laser Lines 62 Line Blue Full-field Structured Light |
| Camera Resolution up to | Depth Camera: 2 Megapixels RGB Camera: 48 Megapixels | Depth Camera: 2 Megapixels RGB Camera: 48 Megapixels | Depth Camera: 2 Megapixels RGB Camera: 2 Megapixels |
| Fill Lights | Depth Camera: 8 RGB Camera: 2 | Depth Camera: 8 RGB Camera: 2 | Depth Camera: 12 Blue LEDs |
| CPU | 8 core ARM A76, 2.4 GHz, Mali G52 GPU | 8 core ARM A76, 2.4 GHz, Mali G52 GPU | 4 core ARM, 2.0 GHz |
| Power Requirements | DC 7-11V, 5A Support 65-watt Fast Charging | DC 7-11V, 5A; Support 65-watt Fast Charging | DC 12V, 3A |
| Dimensions (L × W × H) | 200 × 50 × 110 mm | 200 × 50 × 110 mm | 209 × 88 × 44 mm |
| Scanner Weight | 750 g | 750 g | 508 g |

## Scanner Overview

| Product Name |  **MINI 2** |  **POP 3 Plus** |  **RANGE 2** |
|---|---|---|---|
| Technology | Dual-camera Blue Structured Light | Dual-camera Infrared Structured Light | Dual-camera Infrared Structured Light |
| Scannable Object Size | Small | Medium | Large |
| Single-frame Precision up to | 0.02 mm | 0.04 mm | 0.1 mm |
| Single-frame Accuracy up to | 0.05 mm | 0.08 mm | 0.3 mm |
| Fused Point Distance up to | 0.02 mm | 0.05 mm | 0.1 mm |
| Working Distance | 120 - 250 mm | 150 - 400 mm | 400 - 1300 mm |
| Single Capture Area at Nearest Distance | 52 × 64 mm at 120 mm | 61 × 68 mm at 150 mm | 220 × 425 mm at 400 mm |
| Single Capture Area at Furthest Distance | 168 × 132 mm at 250 mm | 244 × 180 mm at 400 mm | 860 × 1380 mm at 1300 mm |
| Minimum Scan Volume | 10 × 10 × 10 mm | 20 × 20 × 20 mm | 50 × 50 × 50 mm |
| Maximum Scan Volume | 0.5 × 0.5 × 0.5 m | 2 × 2 × 2 m | 4 × 4 × 4 m |
| Scanning Speed, up to | 16 fps | 18 fps | 16 fps |
| 3D Light Source | Class 1 Blue Light | Class 1 Infrared Light | Class 1 Infrared Light |
| Camera Resolution up to | Depth Camera: 2 Megapixels RGB Camera: 2 Megapixels | Depth Camera: 1 Megapixels RGB Camera: 1 Megapixels | Depth Camera: 2 Megapixels RGB Camera: 2 Megapixels |
| Fill Lights | Depth Camera: 4 RGB Camera: 2 | Depth Camera: 4 RGB Camera: 2 | Depth Camera: 4 RGB Camera: 4 |
| CPU | 2 core, 1.8 GHz | 2 core, 1.6 GHz | 2 core, 1.8 GHz |
| Power Requirements | DC 5V, 1A | DC 5V, 1A | DC 5V, 1A |
| Dimensions (L × W × H) | 132 × 53 × 36 mm | 153 × 45 × 29 mm | 240 × 43 × 46 mm |
| Scanner Weight | 175 g | 190 g | 253 g |

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