

# Revopoint MIRACO 3D Scanner

Are you tired of messy cables, connecting your 3D scanner to a computer to use it, or needing multiple scanners to scan different-sized objects? Then we've got something we think you'll love.

Introducing our first standalone 3D scanner, the Revopoint MIRACO. It's ready to support all your professional scanning needs. Whether you want to capture small or large items, its quad-Depth Camera system can tackle it all.



The advertisement features a central image of the Revopoint MIRACO 3D scanner, a handheld device with a large screen displaying a 3D model of a parrot. Above the scanner, two models are compared: 'MIRACO' with '16GB' storage and 'MIRACO Pro' with '32GB' storage. Below the scanner, six key features are listed with corresponding icons: 'Up to 0.02mm Single-frame Precision' (ruler icon), 'Only 750g' (leaf icon), '8K Color Capture' (palette icon), 'Up to 2 Hours of Scanning' (battery icon), '180° Adjustable Screen' (screen rotation icon), and 'Single-shot & Continuous' (camera icon).

MIRACO | MIRACO Pro

16GB | 32GB

Up to 0.02mm  
Single-frame Precision

Only 750g

8K Color  
Capture

Up to 2 Hours  
of Scanning

180°  
Adjustable Screen

Single-shot &  
Continuous

## Highlights

### Go Big, Go Small

Never need to switch scanners again as MIRACO can capture big and small objects with its advanced quad Depth Camera structured infrared light system. You can even switch modes mid-scan to capture intricate details or shape data.

### Surgical Accuracy

Alternate between capturing every tiniest detail with an accuracy of up to 0.05 mm or capturing large surface areas quickly with an accuracy of up to 0.5 mm.

### Two Capture Modes

#### Single-Shot Mode

Don't worry about tracking or dealing with color-contrasted surfaces again with MIRACO's Single-shot mode, making it a snap to capture feature-rich or featureless objects with precise tracking, high accuracy, and minimal point cloud overlap.

#### Continuous Mode

When you want 3D models fast, Continuous mode makes it smooth sailing at up to 15 fps scanning speeds for Near and Far mode scanning.

### Eye-popping Color

Create textured colored 3D models that make you go WOW with MIRACO's 48-megapixel RGB Camera in either Single-shot mode to prevent motion-blur errors or Continuous mode for faster color model creation.

### No cables, No PC Needed

Go everywhere and scan everything with the world's lightest (750 g) standalone 3D scanner without worrying about hauling a laptop or fiddling with cables. Seamlessly swap between turntable scanning or stable two-handed handheld scanning for optimum hand-eye coordination.

### Powerhouse in Your Hands

Capture and process scans fast with MIRACO's powerful 8-core 2.8GHz processor, 16 GB of RAM (up to 5,000 captured frames) or 32 GB (up to 10,000 captured frames), and 256 GB hard drive. The main difference between 16GB and 32GB versions is the number scanning frames they recommended to handle. Usually, the larger the amount of raw data, the more memory is required for scanning, fusion, and mapping processes.

### Your Scanning Portal

See your scans take shape with crystal clarity on MIRACO's 6" 2k backlit AMOLED touch-sensitive screen. Adjust the screen angle up to 180°, enabling easy viewing from any angle. The screen can even be flipped up for selfie scans.

### Long Scans, Fast Charging

Take your time with up to 2 hours of scanning provided by MIRACO's energy-efficient hardware and 5,000 mAh battery. And with 50W fast charging, you can power up MIRACO to 80% in only 35 mins.

### **Powerful On-board Software**

MIRACO comes with its own custom scanning software with an intuitive UI that makes capturing and post-processing your model a breeze. Perform fusion, meshing, and editing on the go to check model quality without transferring your project to a PC. Export your scans in STL, PLY, and OBJ for compatibility with most 3D modeling software.

Hook MIRACO up to TVs or monitors through a USB-Type C to HDMI adapter or a DP port for handy large-screen scanning or to conveniently display scanned models in HD for easy checking or presentations.

## **Applications**

### **Aerospace**

Assess and repair aircraft without sacrificing time for accuracy using MIRACO's fast scans to check for signs of wear and fatigue during inspections or to create replacement parts.

### **Automobiles**

From the entire vehicle to body panels or carburetors, MIRACO can capture every last part without requiring time-consuming manual measurements for repair, reproduction, prototyping, or quality control.

### **3D Animation**

Capture full-body scans in under 60 seconds or highly detailed face scans using MIRACO's small or large capture modes for rapid transformation into fully animated 3D models in game engines.

### **Preservation**

Digitize historical items with photo-realistic color details for preservation or restoration without direct contact, preventing damage that may arise from traditional measuring methods.

### **Education and Research**

Whether digging up dinosaurs or educating the next generation, MIRACO's flexible scanning modes offer a wealth of options for creating media-rich learning content or research data for teachers, students, and scientists.

### **Healthcare**

Capture body parts for prosthetic fittings, reconstructive surgery, and orthopedics. MIRACO's high resolution and accuracy for small object scanning even allow it to scan dental casts.

# Specification

Product Name	Revopoint MIRACO	Memory(RAM)	16 GB or 32 GB DDR4 Memory
Technology	Quad-camera Infrared Structured Light	RGB Camera	48 Megapixels
Single-frame Accuracy	Up to 0.05 mm	Special Object Scanning	Use scanning spray for transparent, dark, or highly reflective objects.
Fused Point Distance	0.05 mm	Scanning Environment	Indoors and Outdoors
Single Capture Range@nearest Distance	28 x 53 @100 mm	Scanner Weight	750 g
Single Capture Range@furthest Distance	975 x 775 @1000 mm	3D Printing Compatible	Yes
Working Distance	100 ~ 1000 mm	Compatible Systems	Windows 10/11, macOS
Minimum Scan Volume	10 mm x 10 mm x 10 mm	Auxiliary Lighting	Infrared Fill Lights, Flash LEDs
Scanning Speed	Up to 15 fps	Connection Modes	Type-C USB 3.1, and Wi-Fi 6
Position Sensors	9-axis IMU	Protection Rating	IP45
Screen	2k 6" AMOLED	Tracking Methods	Feature,Marker
CPU	8 Core ARM A76 , 2.8GHz Mali G52 GPU	External Controls	Yes
Storage	256 GB eMMC	Output Formats	PLY, OBJ, and STL
3D Light Source	Class 1 Infrared Light	Operating System	Native Android system
Battery	Internal 5,000 mAh, 50W fast charging	Charging Speed	50W: 35 mins for 80%

1. Accuracy was acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
2. iOS devices only support Wi-fi connection.
3. Avoid direct sunlight when scanning outdoors.
4. Warning: This product has flashing lights which may not be suitable for people with photosensitive epilepsy.