

Revopoint Miraco Plus 3D Scanner



Model: Miraco Plus

Manufacturer: REVOPOINT

EAN: 6975577880819

Product Code: 1084896

R57,669

Revopoint Miraco Plus 3D Scanner

The Revopoint Miraco Plus 3D scanner, awarded the prestigious Red Dot Award 2024, is a versatile solution that combines the ultra-precision of photogrammetric metrology with the flexibility of scanning both smaller parts such as screws and large industrial objects. With twice the optical magnification and speeds of up to 20 frames per second, you gain clear and fast registration of even the most complex shapes, while the 48MP RGB camera provides vivid, natural color reproduction in 8K quality. The built-in 9-axis IMU stabilizes every movement, eliminating blur, and the 180° tiltable 2K AMOLED screen allows you to intuitively view your progress in real time. With a four-step workflow (marker preparation, photography, point cloud calculation and capture, and processing and export), Miraco Plus streamlines prototyping and advanced design, offering the highest quality measurements without the need to hire additional services.

Innovative photogrammetric metrology

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At the heart of Miraco Plus is an ultra-efficient photogrammetric metrology system that reduces the accumulation of errors in real time when connecting successive fragments of the point cloud. It's thanks to it that every shape, even the most complex, from impressive sculptures to tiny mechanical components, is mapped with unparalleled consistency. With the accuracy of a single frame reaching up to 0.04 mm, you won't miss a single detail. Photogrammetric length accuracy of $0.02 \text{ mm} + 0.05 \text{ mm} \times L \text{ (m)}$ ensures that your model is true to actual dimensions.

From microscopic screws to large industrial objects

The Miraco Plus can easily handle both delicate jewelry pieces and large automotive or motorcycle components. The 2x optical magnification allows you to focus on the finest details, and the capture speed of up to 20 frames per second means you'll scan even long objects quickly and smoothly. You'll adjust the two operating modes (Single-shot and Continuous) to suit your needs, no matter how complex the surface you're scanning.

Unmatched color quality and stability

The built-in 48 MP RGB camera captures the full color spectrum in 8K quality, so finished 3D models require no additional color correction. Stabilization based on a 9-axis IMU (Inertial Measurement Unit, a module that measures the acceleration and angular velocity of an object in space using accelerometers and gyroscopes) eliminates blurring and shake, even when you're working in the field or without a tripod. A large, 2K AMOLED (Active-Matrix Organic Light-Emitting Diode, an advanced display technology that uses organic light-emitting diodes) screen, which tilts 180°, allows you to monitor scanning progress in real time and in any position.

Intuitive, four-step workflow

The entire digitization workflow boils down to four simple steps, carried out without moving the data off the device until the final export - the first step is preparation (deploy the included tape measures, coded targets and markers on or around the object - they are the reference for photogrammetric analysis), photography (take photos from different angles and heights, until every part of the object is in the frame), calculating and capturing point clouds (Miraco Plus automatically recognizes marker positions, merges the shots and creates a consistent point cloud), and processing and exporting (advanced software allows you to correct, filter and edit the model, then export the finished file to a

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desktop or cloud with a single click).

Included in the set

- Miraco Plus 3D scanner
- measuring tapes
- set of magnetic markers
- set of adhesive markers
- tripod
- rotation stand
- bust (for scanning)
- rotation stand cover
- markers
- 65W adapter with dual USB Type-C ports
- 4x calibration plates for long-range scanning
- calibration plate cover
- calibration plate for close-range scanning
- USB Type-C to HDMI adapter
- USB Type-C to Type-A adapter
- wrist strap
- carrying case
- user manual

Manufacturer	Revopoint
Model	Miraco Plus
Technology	Quad-camera infrared structured light with optical zoom and photogrammetric metrology
Single-frame precision	0.02 mm
Single-frame accuracy	0.04 mm
Photogrammetric length accuracy	0.02 mm + 0.05 mm x L (m)

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Point of convergence distance	0.05 mm
Operating range	100 - 1000 mm
Single capture area at the closest distance	28 x 53 mm at 100 mm
Single capture area at maximum distance	975 x 775 mm at 1000 mm
Minimum scan volume	10 x 10 x 10 mm
Maximum scan volume	4 x 4 x 4 m
Scan speed	20 fps
Camera resolution	Depth camera: 2MP, RGB camera: 48MP
CPU	8-core ARM A76, 2.4 GHz, Mali G52 GPU
3D light source	Class 1 infrared light
RAM and internal storage	32 GB + 256 GB
Fill lights	Depth camera: 8, RGB camera: 2
Sensors	9-axis IMU

GPSR Link: <https://psr->

assets.innpro.pl/creative_technologies/sg_creative_technologies_3d_scanners.pdf, Gross weight: 6790, Box length: 47,00, Box width: 34,00, Box height: 16,00, Net weight: 750, Information about data generation: <https://dataact.innpro.pl/revopoint/6975577880819>

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