REVOPOINT

POP 4 3D Scanner

AI-Powered, High-Precision, and Versatile 3D Scanner

www.revopoint3d.com

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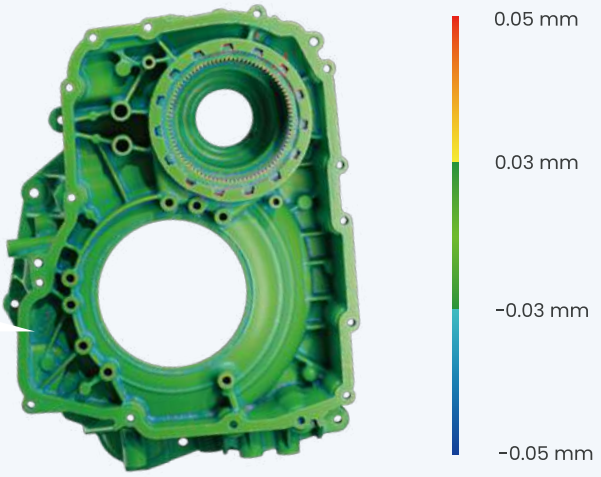
The first AI-powered, high-precision, versatile 3D scanner combines dual-band blue laser and NIR technology with multi-line laser, full-field and VCSEL structured light scanning, enabling exceptional detail capture across diverse materials, sizes, and indoor or outdoor environments with mobile scanning and wireless mirroring.

Volumetric Accuracy

0.03 mm + 0.05 mm x L (m)

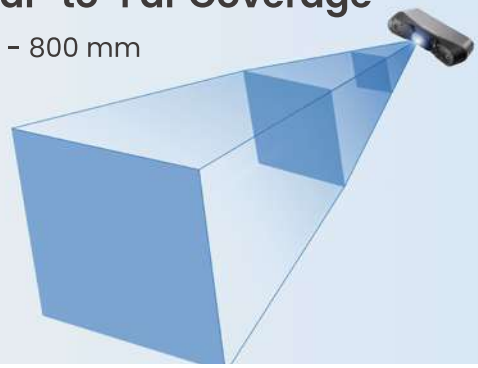
Fused Point Distance,up to

0.05 mm



Near-to-Far Coverage

200 - 800 mm



Blazingly Fast Laser Scans Up to

105 fps

Flat / Shiny / Dark Surfaces Without Spray

Flexible Scanning Stream Scans Wirelessly

100,000 lux Outdoor Scan

Stable Tracking Smoother Scanning

4-Hour Extended Power

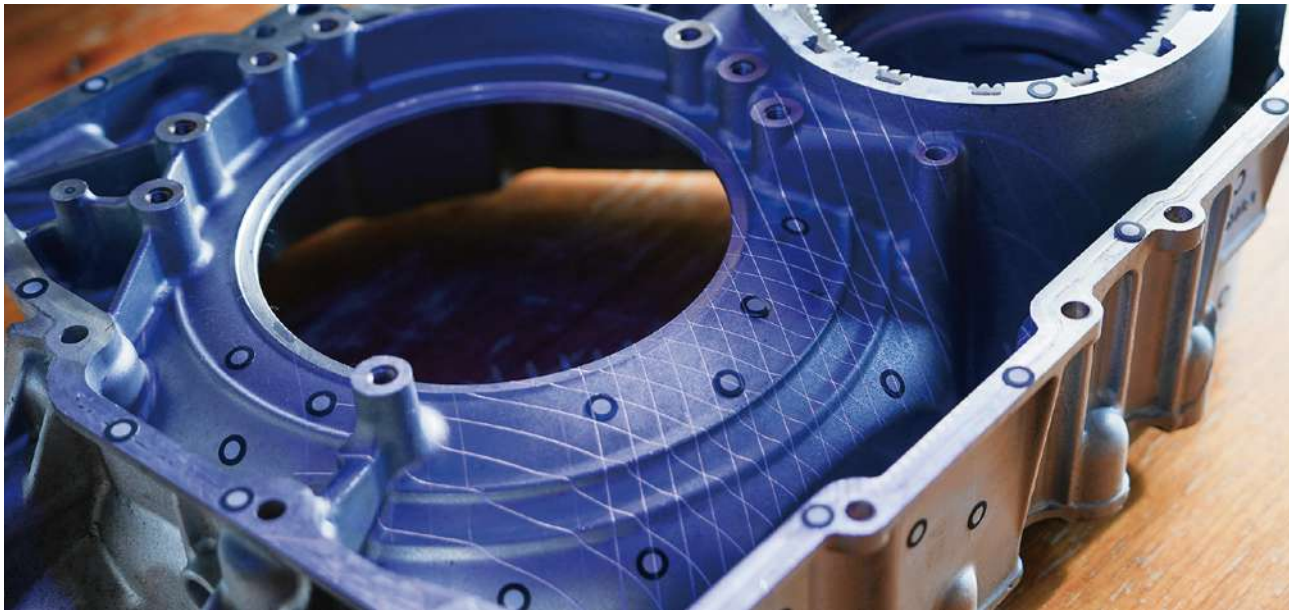
Rich Software Features

Multi-scanning Volume

5 Scanning Modes

30 Cross-laser lines: High Speed & Accuracy

Rapidly scan flat, shiny, or dark surfaces at up to 2M points/s and 105 fps for fast, accurate results, no scanning spray needed.



Single laser Line: Deep Holes & Crevices

Ensure complete data capture in hard-to-scan areas such as deep holes, crevices, and grilles.

VCSEL Rapid mode: Outdoors & Large Workpieces

Scanning at up to 30 fps easily captures large workpieces and people marker-free, even in direct sunlight (up to 100,000 Lux).

Full-Field HD mode: Detailed Model

Easily capture bodies, faces, and objects, marker-free, at up to 5M points/s, delivering high-detail models with exceptional accuracy.

Hybrid HD mode: Fast & Accurate

Combines the strengths of POP 4's Full-Field and VCSEL modes to deliver fast, accurate 3D scans unshakeable tracking—the perfect balance of speed and detail.

All-in-one: Wireless Scanning | Long Battery Life | Outdoor Adaptability

Efficient Connectivity & Ultimate Portability

Built-in Wi-Fi 6 pairs quickly for mobile scans. For higher precision, use blue-laser scanning on PC and Revo Mirror for wireless mirroring, preview, and phone-based control.

Real-time Preview

Mobile Control

Long Battery Life

Equipped with a 5500mAh large-capacity battery grip, providing up to 4 hours of continuous operation, eliminating power anxiety for truly untethered scanning.

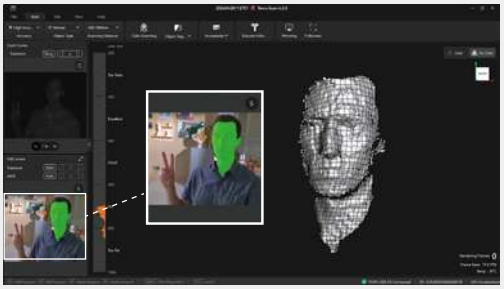
All-Weather Outdoor Operation

Delivers stable, high-precision scanning even outdoors in up to 100,000 lux. Providing consistent all-weather performance for construction sites, archaeological digs, and industrial fieldwork.

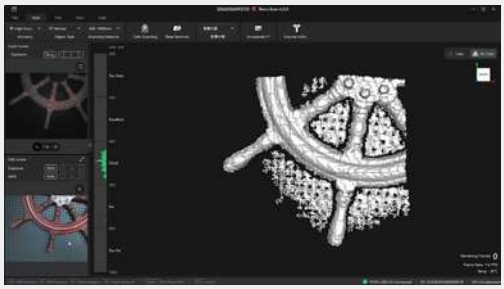
Real-Time AI Object Segmentation & Tracking

Powered by innovative AI object segmentation technology, it identifies your target area with a single click and tracks it throughout the scan.

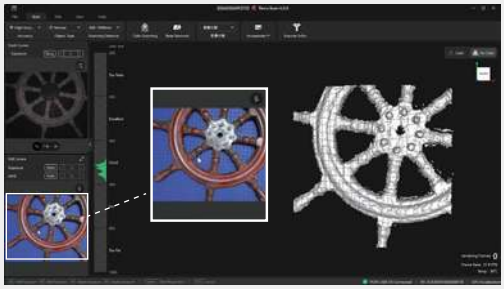
Before Object Segmentation



After Object Segmentation



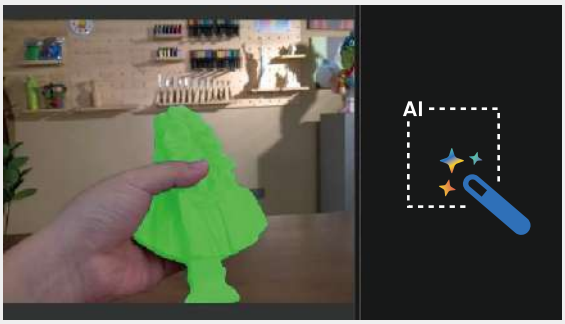
Before Remove Background

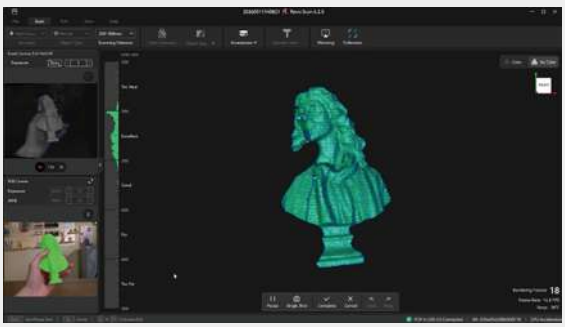


After Remove Background

Block Interference, Reshape the Scanning Experience

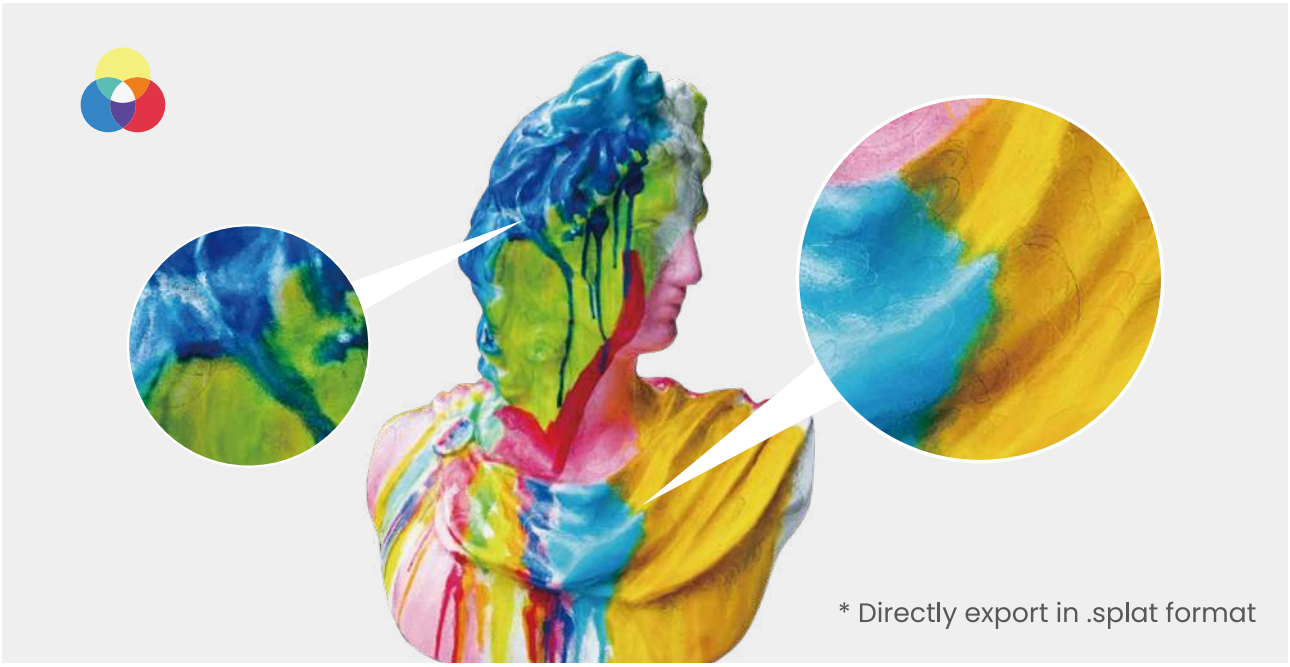
Built-in AI isolates the target in real-time, automatically filtering out the desk, background, unwanted clutter and even your fingers.





Photorealistic 3DGS Modeling

Powered by our unique, patented physically-scaled 3D Gaussian Splatting technology, it converts point cloud and RGB scan data into true-to-life 1:1 Gaussian models, making it ideal for gaming, animation, and VR applications.



Capturing Light, Not Just Shape

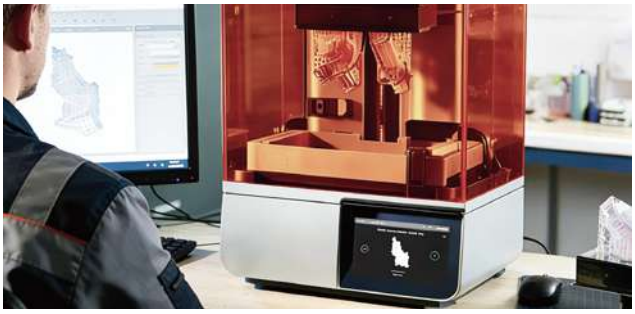
Traditional mesh scanning fails to represent translucency, reflections, and volumetric details like hair or fabric. POP 4 uses 3DGS to encode how light actually interacts with materials, faithfully restoring the object's true texture.

Full-Color Capture, Exquisite Rendering

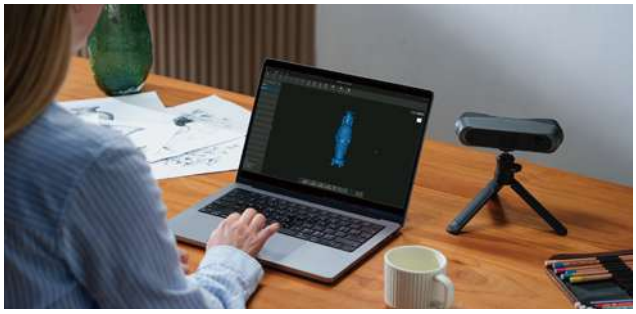
Color-stitch objects with rich surface patterns and textures—such as carpets, vases, and murals—to produce vivid, high-quality 3D models.

Application

Reverse Engineering



3D Printing



Product Design

Animation & Digital Media

Specifications

Name	POP 4
Technology	Blue Multi-line Laser, Near-Infrared Full-field Structured Light and VCSEL Structured Light
Single-frame Accuracy, up to①	Line Laser Accuracy: 0.03 mm Full-field Structured Light Accuracy: 0.08 mm VCSEL Structured Light Accuracy: 0.10 mm @ 300-500 mm, 0.20 mm @ 500-800 mm
Volumetric Accuracy	0.03 mm + 0.05 mm × L (m), L is the length of the object. (Note: Using Multi-line Laser Mode)
Fused Point Distance, up to	0.05 mm
Working Distance	200 - 400 mm (Multi-line Laser Mode) 250 - 500 mm (Full-field HD Mode and Hybrid HD) 300 - 800 mm (VCSEL Mode)
Single Capture Area at Nearest Distance	131 × 134 mm at 200 mm
Single Capture Area at Furthest Distance	312 × 269 mm at 400 mm (Multi-line Laser, Full-field) 505 × 538 mm at 800 mm（VCSEL mode）
Minimum Scan Volume	10 × 10 × 10 mm
Maximum Scan Volume	2 × 2 × 2 m
Scanning Speed, up to	Multi-line Laser Scan: 80 - 105 fps (NVIDIA GPU), 40 - 60 fps (CPU) Full-field Structured Light Scan: 15 - 20 fps VCSEL Structured Light Scan: 20 - 30 fps
Point Return Rate	Multi-line Laser: 2,000,000 Points/s Full-field Structured Light Scan: 5,000,000 Points/s
RGB Camera Resolution	1.3 Megapixels
Outdoor Scanning	Yes Lighting Environment Requirements, Multi-line Laser ≤ 50,000 lux，VCSEL ≤ 100,000 lux (When using the multi-line laser mode with an outdoor filter, scanning is possible in lighting conditions of up to 100,000 lux.)
3D Light Source②	30 Blue Cross Laser Lines 1 Blue Single Laser Line (Deep-Hole Mode) Near-Infrared Full-field Structured Light Near-Infrared VCSEL Structured Light
Fill Lights③	Depth Camera: 8 RGB Camera: 2
Scanner Weight	286 g
Dimensions (L x W x H)	160 × 30 × 72 mm

Notes:

① Accuracy are acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.

② Class 1 Laser: Avoid direct eye exposure for extended periods! Refer to Standards for Class 1 Lasers for details.

③ Some products have flashing lights, which may not be suitable for people with photosensitive epilepsy.

REVOPOINT

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2026 V1