REVOPOINT

Trackit SR 3D Scanner

Industrial-grade Wireless Optical Tracking 3D Scanner

www.revopoint3d.com

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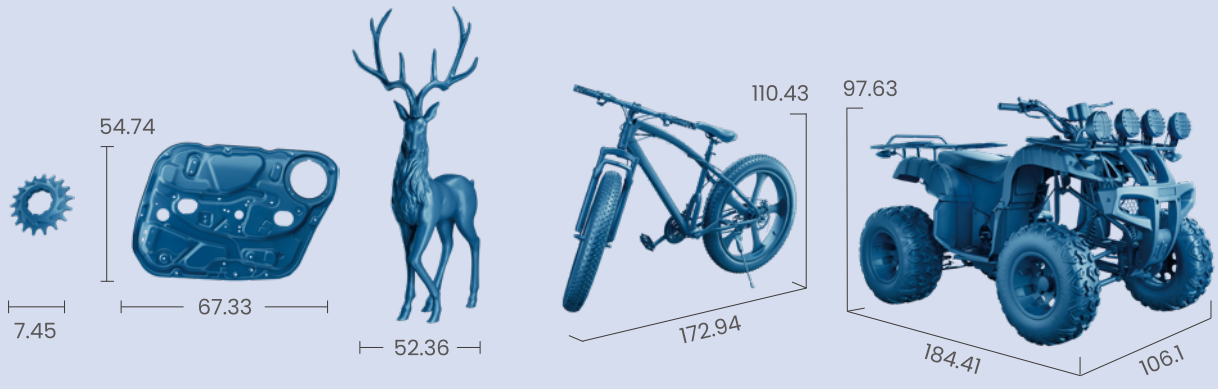
Trackit SR is Revopoint's latest wireless tracking 3D scanner, combining industrial-grade scanning accuracy, marker-free tracking, a lightweight wireless design, and on-site accuracy verification and measurement analysis.

Capture Small to Big Objects

Unit: cm

10 mm - 4 m



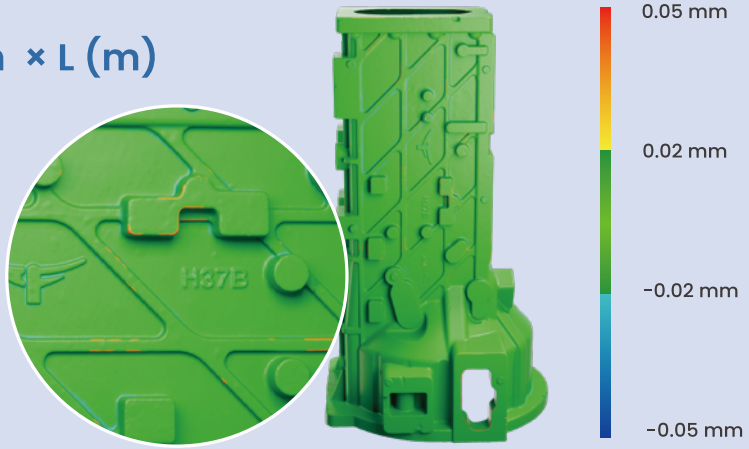
Volumetric Accuracy

0.025 mm + 0.04 mm × L (m)

Fused Point Distance, up to

0.05 mm

Based on VDI/VDE 2634 part 3 and ISO 10360-13

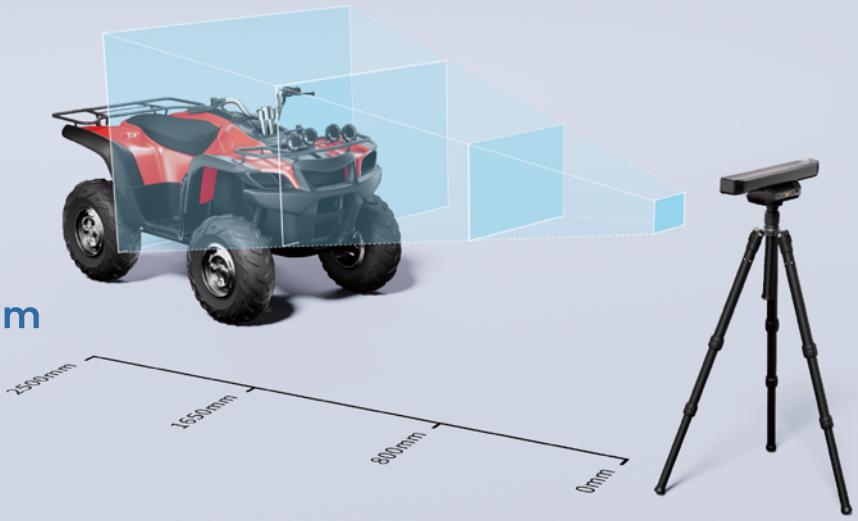


Maximum Tracking Frame

2075 × 1778 mm @ 2500 mm

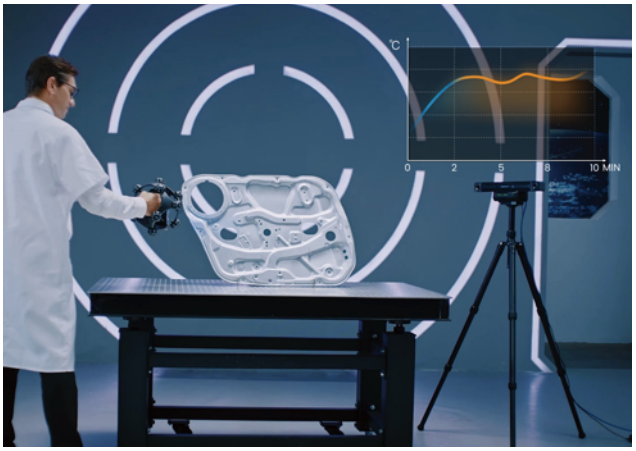
Tracker Working Distance

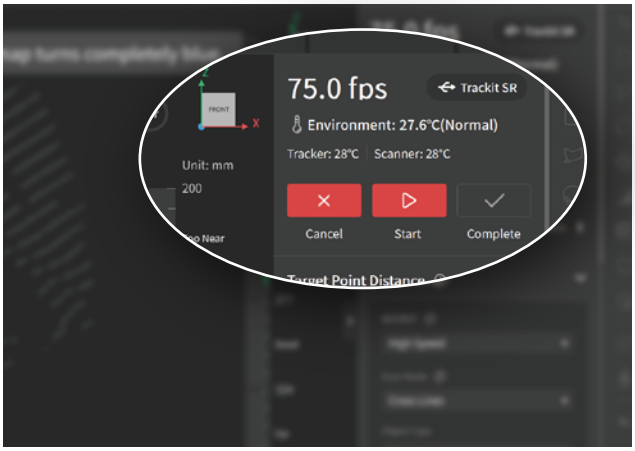
800 mm - 2500 mm



Smart Temperature Monitoring

Ready to scan in just 2 minutes. Both the Tracker and Scanner feature dual temperature sensors that continuously monitor ambient and internal conditions, maintaining optimal thermal stability throughout for consistent accuracy.





Meet diverse scanning needs

Triple Blue Laser Capture

From complex geometry to large workpieces, Trackit SR's 3 seamlessly switchable blue laser scanning modes capture reliable data even on shiny or dark surfaces, no scanning spray needed.

30 Cross Laser Lines

Fine Mode

17 Parallel Laser Lines

Far Mode

Single Laser Line

Deep Hole Mode

Time-saving Marker-Free Scans

Advanced optical tracking enables Trackit SR to track the Scanner's position in real time, delivering high-accuracy 3D scans without time-consuming marker application and removal on black and metal objects.

Wireless Multi-station Scan Setup

Wirelessly reposition the battery-powered Tracker to scan large workpieces without cable clutter. With just 5 shared reference points between stations, Trackit SR's anchor block system ensures accurate, reliable frame stitching every time.

Standalone Handheld Scans

Scanner supports standalone operation with both wired and wireless connectivity. Transmit scan data directly to a PC, or cast the live view to a mobile device for remote preview and real-time control.

Move Freely, Scan Wirelessly

Scanner and Tracker support Wi-Fi 6 wireless connectivity for stable data transmission and seamless scanning. Both units support Battery Grip power, reducing cable clutter for greater flexibility and efficiency.

Faster Calibration Workflow

Automated gimbal-assisted calibration for streamlined operation. Quick calibration takes just 2 minutes, with full calibration completed in 20 minutes.

Detailed Texture Mapping

Capture surface textures in vivid detail using Trackit SR's high-resolution RGB camera. Generate realistic 3D models or leverage texture data in Revo Measure for accurate measurements and professional reporting.

Exceptional Bright Light Adaptability

Maintains stable scanning under high-intensity lighting of up to 100,000 lux. Delivers reliable performance across diverse lighting conditions, from dimly lit interiors to direct sunlight outdoors.

Real-Time Point Cloud Monitoring for Optimal Results

Use real-time point cloud quality visualization to monitor scanning progress, assess data completeness and scan quality, and ensure optimal reconstruction results.

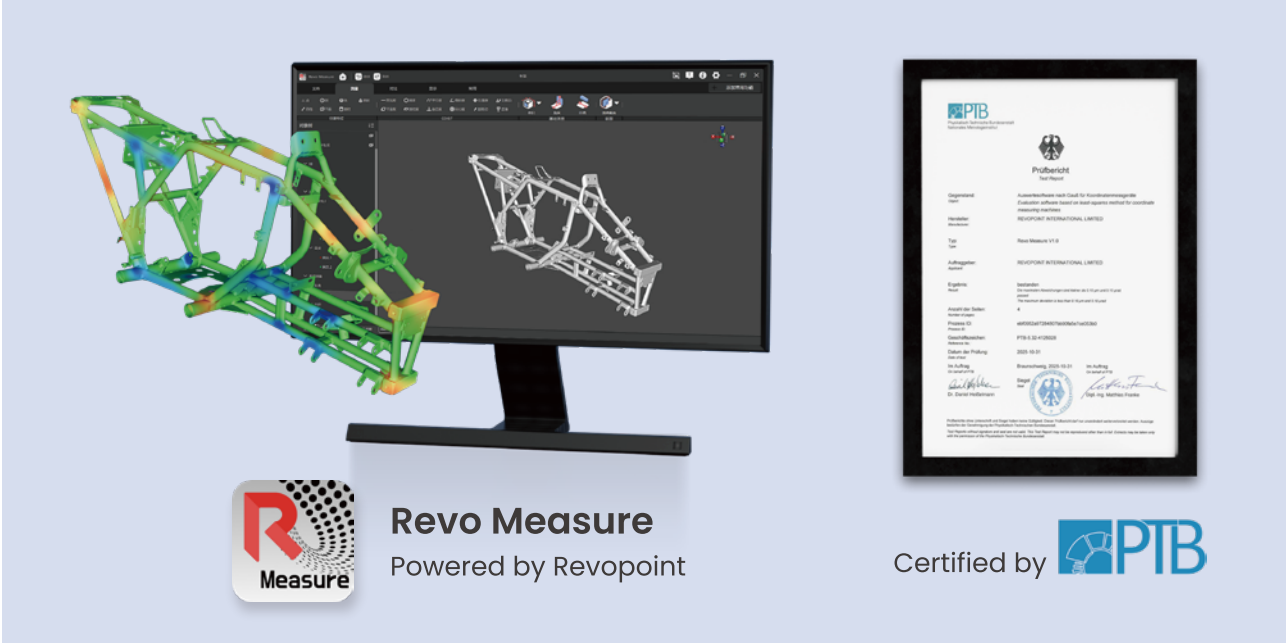
Professional Software and Accessories

TCP Remote Real-Time Control

Seamlessly connect third-party applications to Revo Track via TCP for real-time remote control over scanning, post-processing, and software switching.

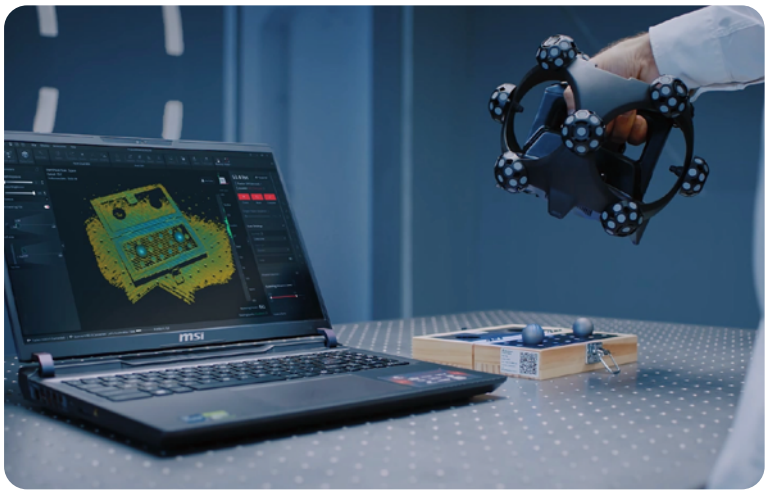
Professional 3D Measurement Software

Revo Measure's measurement algorithms are certified by Germany's National Metrology Institute (PTB), ensuring they meet international standards for strict quality control and industrial measurement tasks.

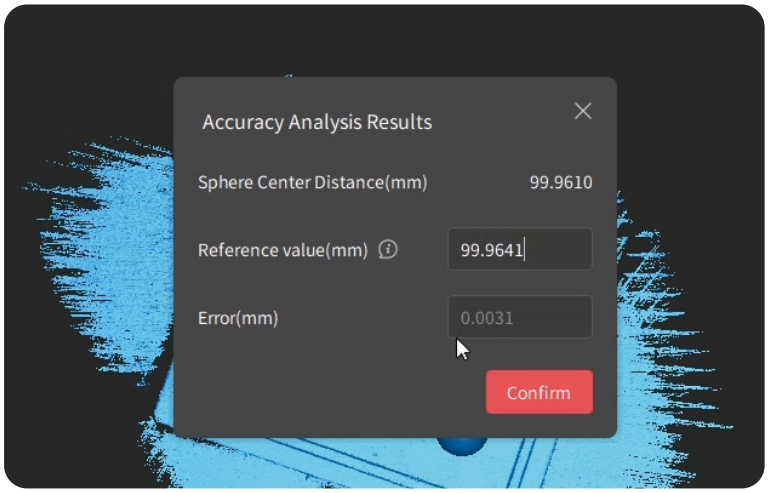


Comprehensive Solution for On-Site Accuracy Verification, Scanning, and Measurement

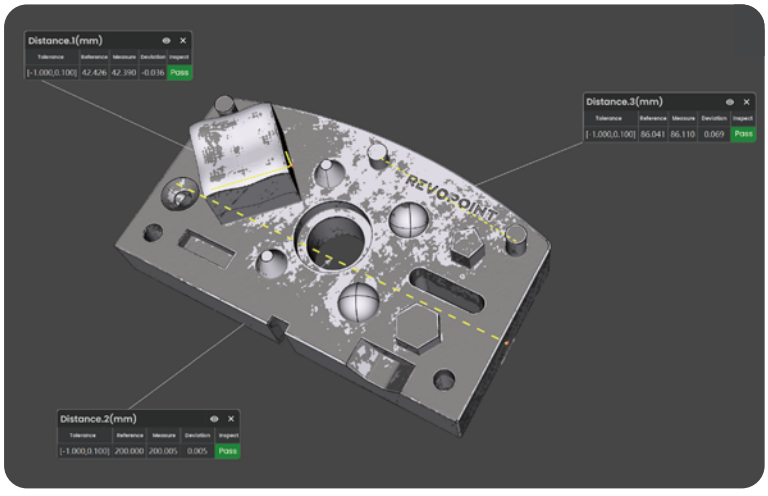
Using a metrology-grade ball plate with Revo Track's one-click plate measurement feature, you can quickly perform on-site accuracy verification, helping ensure the accuracy and reliability of every scan.



With Revo Track, you can scan a CMM-grade carbon fiber ball plate and obtain center-to-center distances with one click.



Compare against certified values to rapidly verify Trackit SR's overall scanning accuracy.



After validating accuracy, scan workpieces and seamlessly import the data into Revo Measure for advanced metrology workflows.

Specifications

Revopoint Trackit SR Tracking 3D Scanner	
Scanner	
Single-frame Accuracy①	0.02 mm
Fused Point Distance, up to	0.05 mm
Scanning Speed, up to	2,000,000 Point/s
Light Source②	Fine Mode: 30 Blue Cross Laser Lines Far Mode: 17 Blue Parallel Laser Lines Deep Hole Mode: 1 Blue Single Laser Line
Working Distance	Cross Laser Lines: 200 - 400 mm Parallel Laser Lines: 250 - 500 mm Single Laser Line: 200 - 400 mm
Single Capture Area at Nearest Distance	123 × 130 mm at 200 mm
Single Capture Area at Furthest Distance	330 × 325 mm at 500 mm
Wi-Fi	6
Weight	1.0 kg
Dimensions (L × W × H)	250 × 250 × 177 mm
Operating Temperature Range③	0 °C - 30 °C
Output Formats	PLY, OBJ, STL, ASC, 3MF, GLTF, FBX
Material	Frame: Carbon Fiber Housing: Polycarbonate
Tracker	
Scannable Object Size Range (Recommended)	0.01 - 4 m
Volumetric Accuracy (Tracking system)	0.025 mm + 0.04 mm × L (m)
Working Distance	800 mm - 2500 mm
Minimum Tracking Frame	587 × 569 mm @ 800 mm
Maximum Tracking Frame	2075 × 1778 mm @ 2500 mm
Tracking Volume	3 m^3
Wi-Fi	6
Weight	1.5 kg
Dimensions (L × W × H)	441 × 111 × 103 mm
Tracking Band	NIR
Acceptance Test	Based on VDI/VDE 2634 part 3 and ISO 10360-13

Note:

① Accuracy is acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.
② Class 2 Laser Safety Tips:
1) The product uses a Class 2 laser projector. Avoid looking directly at it at close range! Please refer to the Class 2 laser standard document for details. 2) Don't view through magnifying instruments (telescopes, camera lenses). 3) Keep reflective surfaces away from laser path.
③ For optimal accuracy, operate within 20-25°C (68-77°F).
④ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.

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+1 (888) 807-3339

sales@revopoint3d.com

www.revopoint3d.com

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