



MetroY Ultra 3D Scanner

Engineered for Measurement:
High-Performance Wireless 3D Scanner

MetroY Ultra 3D Scanner

MetroY Ultra features industrial-grade blue-light scanning, combining multi-line laser and structured light to deliver 0.015 mm single-frame accuracy. With Wi-Fi 6, it streams scan data in real time. Paired with a ball plate and the free Revo Metro software, it provides a complete workflow from scanning to measurement, ideal for high-precision inspection of small- to medium-sized components.



Fused Point Distance
Up to 0.05 mm



Wireless Scanning
Move Freely



HD RGB
Camera

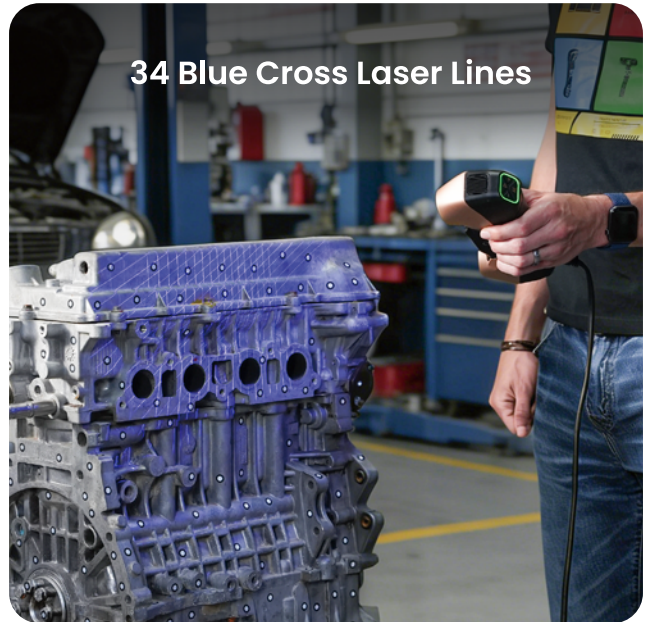


Real-time
Temperature Monitoring

5

Blue Light Scanning Modes

34 Blue Cross Laser Lines



15 Blue Parallel Laser Lines



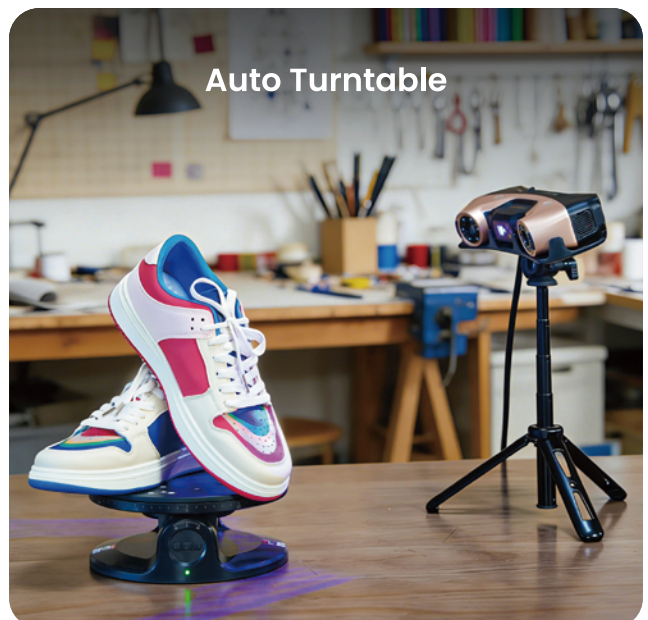
1 Blue Deep Hole Single Laser Line



62 Line Blue Full-field Structured Light

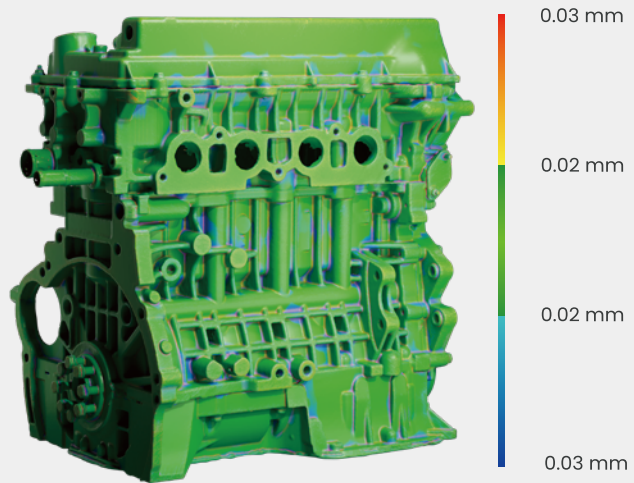


Auto Turntable

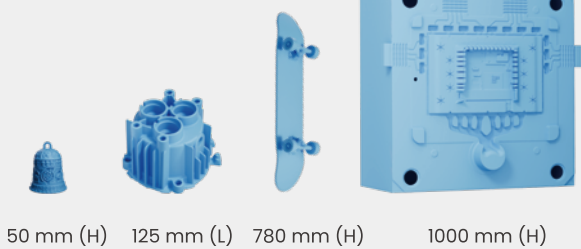


Single-frame Accuracy, up to
0.015 mm

Volumetric Accuracy
0.015 mm + 0.04 mm x L (m)



Scanning Size
Small to Medium



High-Speed Laser Scans

Faster Scanning Speeds

up to 90 FPS

Faster Laser Scans

up to 3,000,000 Points/s

Professional Software and Accessories



Revo Metro

Professional Multifunctional
3D Scanning and
Post-editing Software

Revo Measure

Professional 3D Measurement Software

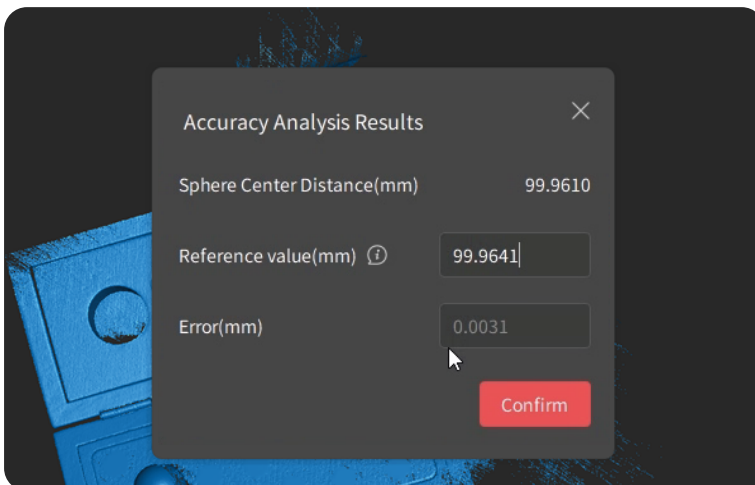
Metrology-Grade Carbon Fiber Ball Plate

A Comprehensive Solution Covering On-site Accuracy Verification, Scanning, and Measurement

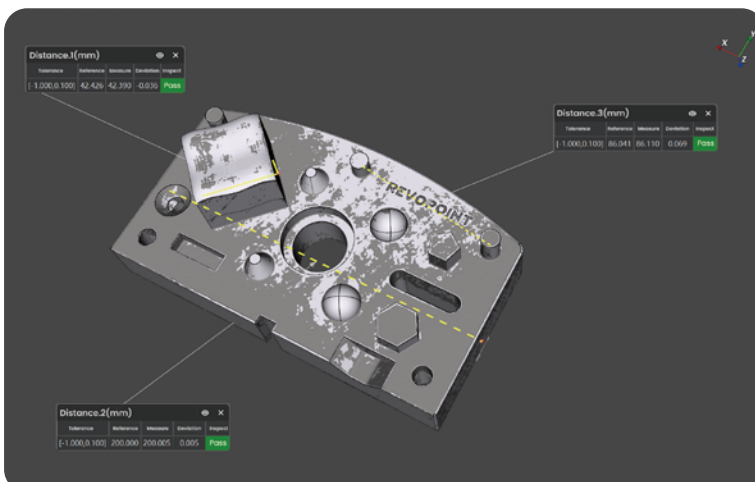
Using a metrology-grade ball plate with Revo Metro's one-click plate measurement, you can quickly perform on-site accuracy verification, ensuring the accuracy and reliability of every scan.



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



Compare against certified values to rapidly verify MetroY Ultra's overall scanning accuracy.

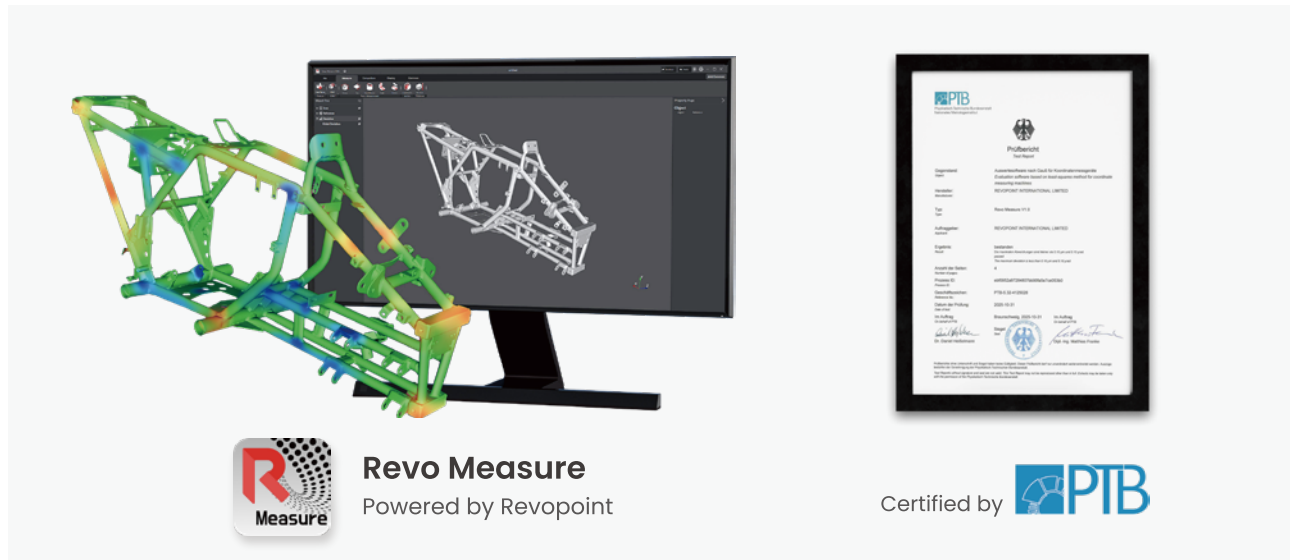


After validating accuracy, scan workpieces and seamlessly import the data into Revo Measure for advanced metrology workflows.

*The ball plate and Revo Measure software are part of the CMM Edition package, but they can also be purchased separately.

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.



Precision, Visualized: From Scan to Insight



Seamless Integration
with Revo Scan



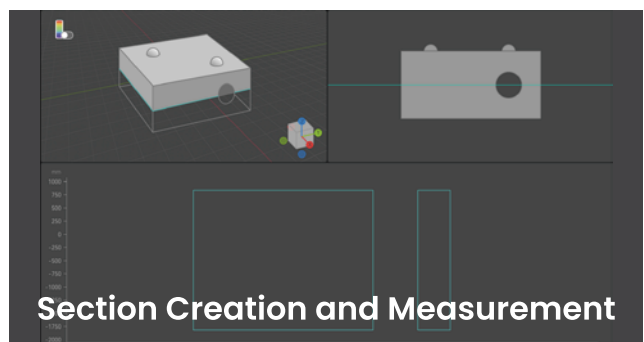
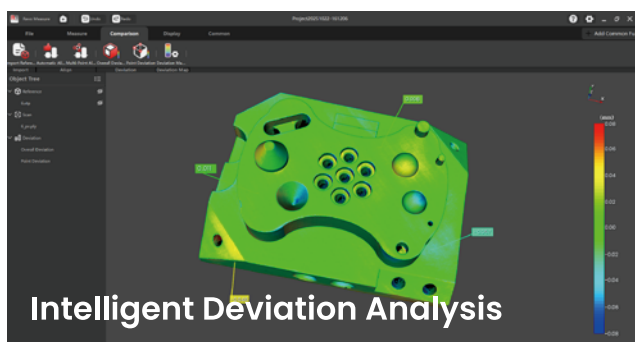
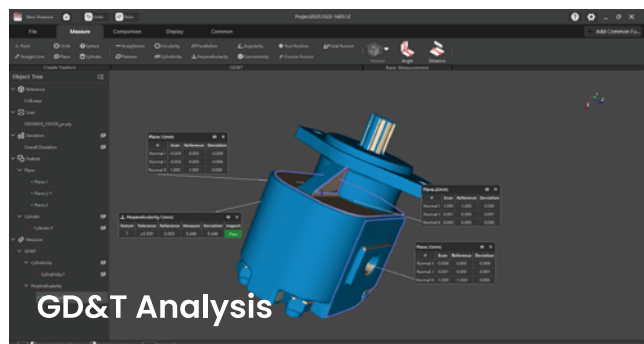
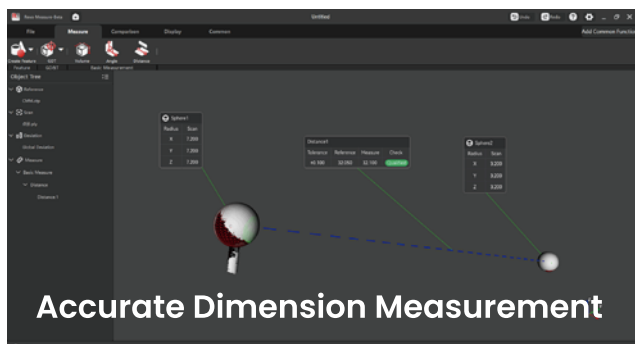
Measurement
Report Export



User-friendly
Interface



Texture Mapping
Visualization



Specifications

Name	MetroY Ultra
Technology	Multi-line Laser Scan and Full-field Structured Light Scan
Single-frame Precision, up to ^①	0.01 mm
Single-frame Accuracy, up to ^①	0.015 mm
Volumetric Accuracy	0.015 mm + 0.04 mm × L (m), 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	152 × 138 mm at 200 mm
Single Capture Area at Furthest Distance	332 × 276 mm at 400 mm
Minimum Scan Volume	10 × 10 × 10 mm
Maximum Scan Volume	2 × 2 × 2 m
Scanning Speed, up to	NVIDIA GPU: 90 fps CPU: 60 fps
Point Return Rat	Multi-line Laser Scan: 3,000,000 Points/s Full-field Structured Light Scan: 7,000,000 Points/s
RGB Camera Resolution	2 Megapixels
CPU	4 core ARM, 2.0 GHz
Outdoor Scanning	Yes (Multi-line laser mode enables scanning in lighting environments of up to 100,000 lux)
3D Light Source ^②	34 Blue Cross Laser Lines 15 Blue Parallel Laser Lines 1 Blue Deep Hole Single Laser Line 62 Line Blue Full-field Structured Light
Fill Lights ^③	12 Blue LEDs
Scanner Weight	450 g
Dimensions (L x W x H)	211 × 94 × 47 mm

Notes:

① Precision and Accuracy were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.

② Class 2M Laser Safety Tips:

The product uses a 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 (e.g., telescopes, and camera lenses). To prevent laser reflection, avoid placing reflective surfaces like mirrors or glass in the path of the laser beam.

③ This product has flashing lights, which may not be suitable for people with photosensitive epilepsy.



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