

WIRELESS HYBRID LIGHT SOURCE METROLOGY 3D SCANNER

FreeScan Combo+ Wireless

Wireless Hybrid Light Source Metrology Handheld 3D Scanner

GO WIRELESS. INSPECT BOUNDLESS.

The compact Combo design and hybrid light source, now with no cable. Wi-Fi 7 carries the data, a swappable battery runs up to 2 hours, and 93 laser lines scan at up to 9,106,000 points per second. Built-in video photogrammetry keeps large parts accurate.



0.02 mm
ACCURACY

9.1 M
POINTS / SEC

550 g
NET WEIGHT



Wireless &
Portable



Certified Metrology
Accuracy



Built-in Video
Photogrammetry (VPG)



Five Scan
Modes



Faster with Higher
Performance



Inspect-Ready
Workflow



Scanning a large casting pattern in a foundry pattern shop. No cable runs back to a PC, so the operator walks the part freely.

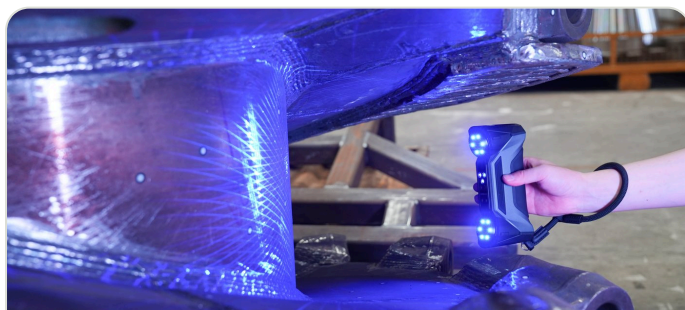


Compact DNA, Now Wireless

FreeScan Combo+ Wireless keeps the compact body and hybrid light source of the FreeScan Combo Series and drops the cable completely. It is built for inspection, quality control and reverse engineering in automotive, heavy industry, transportation and energy.

93 laser lines. Higher scanning efficiency than the wired Combo+.

Built-in VPG. Video photogrammetry maximizes global accuracy on parts of every size.



Working under a welded steel frame. With no cable to snag, the scanner reaches into tight corners of the structure.



Wi-Fi 7, Designed for Mobility

Wireless transmission. Wi-Fi 7 and anti-interference technology keep data flowing on busy factory floors and outdoors.

Work weightless. At 550 g, the compact design reaches confined spaces and stays easy to hold.



Sliding a charged battery into the grip. A swap takes seconds, so scanning picks up where it left off.



Minimized Downtime

Built for long shifts. The high-capacity battery supports up to 2 hours of continuous scanning.

Rapid-charging dock. Keep a spare charging, swap it in and keep running.



Certified Accuracy: ISO/IEC 17025 Laboratory

Accuracy claims on this page are not marketing numbers. The SHINING 3D Accuracy Lab is accredited to ISO/IEC 17025 by CNAS, and its calibration procedures strictly follow ISO 10360. Every FreeScan Combo+ Wireless is acceptance tested there to ISO 10360. That is the document your quality manager, and your customer's auditor, will ask to see.



Large-volume hall: reference scale bars set the traceable length standard for volumetric accuracy tests.



Long-range rail: depth-of-field and working-distance performance verified along a calibrated track.



Calibration benches: instruments are verified to VDI/VDE 2634 and ISO 10360 before a certificate is issued.



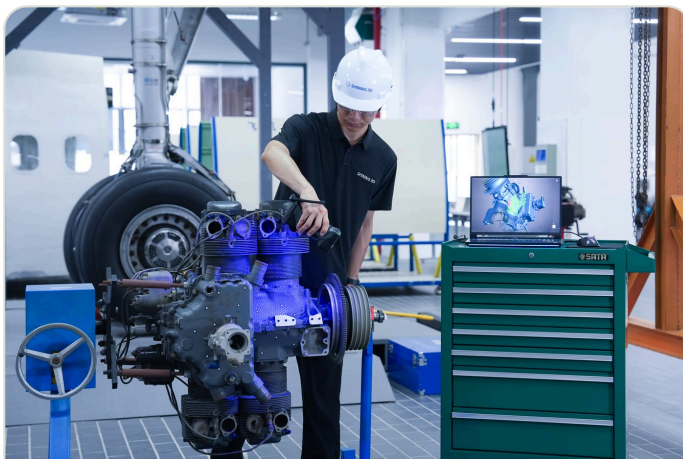
Built-in VPG on a camper van. Scale bars on the hood set the reference while the scanner builds the frame.



Secured Accuracy at Scale

SHINING 3D's patented video photogrammetry (VPG) keeps refining the position of reference markers as you scan. It cuts cumulative error over long distances, so accuracy holds across large components.

Volumetric accuracy with VPG. 0.02 mm + 0.015 mm/m.



An aircraft piston engine scanned on its stand. The mesh builds on the laptop in real time.



More Laser Lines, Faster Speed

93 laser lines capture more surface per pass, and 180 frames per second keep tracking stable during fast moves. Complex surfaces, deep holes and narrow slots scan efficiently.

93 laser lines

180 frames per second



IR rapid scan inside a camper van. Seats and cabinetry are captured quickly with no markers.



Five Scan Modes

Up to 9,106,000 points per second. Blue laser modes handle speed, fine detail and deep pockets. IR rapid scan covers quick jobs without markers, and VPG scan mode handles large components.

93 laser lines high-speed

25 parallel lines detailed

1 laser line deep pockets



A car fender scanned in its fixture. The data goes straight into SHINING3D Inspect for a color map and report.



Quality Starts at Capture

Real-time mesh display, intelligent resolution and AI feature recognition for holes and slots. Laser line color and the scanner LED show if the distance is right.



One Click, Next Step

Data moves straight into PTB-certified SHINING3D Inspect for dimensional analysis, GD&T, color maps and reports.



Proven Across Industries

Where cable-free scanning pays off: inside vehicles, around big parts and anywhere a cable would get in the way.



Automotive interiors: a seat scanned in the car, cable-free.



Rail: a wheelset and axle measured in the workshop.



Heavy industry: a large casting scanned where it sits.



Aviation: a helicopter cockpit captured from the seat.

Specifications

Specification	FreeScan Combo+ Wireless	FreeScan Combo Wireless
Accuracy	0.02 mm (0.0008 in)	
Volumetric accuracy	0.02 mm + 0.03 mm/m (0.0008 in + 0.00036 in/ft)	
Volumetric accuracy with VPG	0.02 mm + 0.015 mm/m (0.0008 in + 0.00018 in/ft)	
Scan speed	Up to 9,106,000 points/s	Up to 7,344,000 points/s
Max. FOV	Laser: 580 × 650 mm; IR: 830 × 700 mm (Laser: 22.8 × 25.6 in; IR: 32.7 × 27.6 in)	
High-speed scan	Included (93 laser lines) VCSEL	Included (50 laser lines) VCSEL
Detailed scan	Included (25 parallel laser lines)	Included (25 parallel laser lines)
Deep pockets scan	Included (1 laser line)	Included (1 laser line)
Working distance	300 mm (11.81 in)	
Connection standard	Wi-Fi 7 / USB 3.0	
Dimensions	189 × 81 × 53 mm (7.44 × 3.19 × 2.09 in)	
Net weight	550 g (1.212 lb)	
Working temperature	-10 – 40 °C (14 – 104 °F)	
Working humidity	10 – 90%	
Certifications	CE, FCC, RoHS, WEEE, KC, FDA, UKCA, IP50, TELEC, TISAX	
Acceptance test	ISO 10360 certified (tested in the ISO/IEC 17025 accredited accuracy lab)	
Recommended PC	Win 10/11 Pro · Core Ultra 9 275HX · RTX 5080 Laptop · 12G VRAM · 64G RAM	Win 10/11 Pro · Core Ultra 9 275HX · RTX 4070 Laptop · 12G VRAM · 64G RAM

ISO 10360

ISO/IEC 17025 ACCREDITED LAB

PTB-CERTIFIED SOFTWARE

WI-FI 7

IP50

See it on your parts.

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