

FreeScan UE Nova

Wireless Metrology 3D Scanner for Greater Reach

FreeScan UE Nova, a wide-range wireless laser handheld 3D scanner, sets the new standard in 3D scanning with its unmatched field of view, enabling highly efficient capture of large objects and significantly enhancing portability, productivity and versatility.



Large-Scale Scanning Coverage

With an extra-large field of view (FOV) of 2.6 × 2.2 m and a maximum scanning distance of 2.6 m, it is ideal for large-scale projects.



Ultra-Fast Scan Speed

50 laser lines for rapid scanning, enabling fast data capture and significantly reducing scanning time.



Integrated Wireless Modules

Wireless modules enable real-time data transmission with high frame rates and stability.



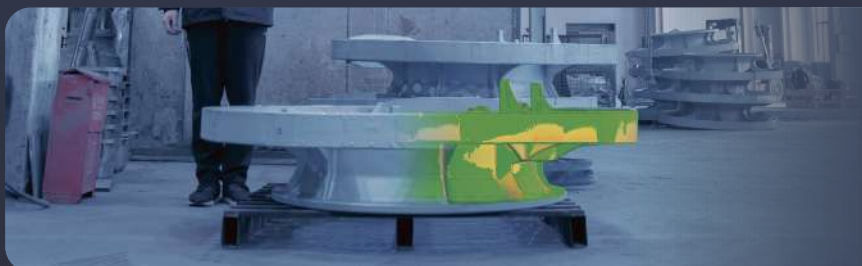
Swappable Batteries

Featuring detachable, hot-swappable batteries, it guarantees continuous scanning during long-time projects or in remote locations.



Video Photogrammetry (VPG)

Utilizing SHINING 3D's patented video-based photogrammetry without coded markers, it integrates with a calibration rod for real-time marker verification, delivering volumetric accuracy of $0.072 + 0.012 \text{ mm/m}$ for more efficient and reliable data acquisition.



Advanced Software for Seamless 3D Measurement



Intelligent Resolution

Automatically adjusts mesh resolution based on the object's curvature, ensuring clearer and more detailed features.



Inspection Module

Integrated inspection module, certified by PTB, for reliable, high-quality full-size inspection.

SPECIFICATIONS

Accuracy	0.072 mm
Volumetric accuracy with VPG	$0.072 + 0.012 \text{ mm/m}$
Flexible FOV	Up to $2600 \times 2200 \text{ mm}$
Resolution	$0.5 \sim 10 \text{ mm}$
Scan speed	4,600,000 points/s
VPG	Included (no coded markers required)
FOV indicator of VPG	Included
High-speed scan	Included
Detailed scan	Included (support near mode)
Depth of field	2300 mm ($300 \sim 2600 \text{ mm}$)
Connection	Wireless & Wired mode (fiber optic)
Net weight	1.6 kg
Certifications	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50, TELEC, TiSAX
Acceptance test	VDI/VDE 2634 Part3, ISO 10360 (certificated in ISO 17025 certificated accuracy lab)



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