

**V·GER**

COMPETENCE IN 3D SCANNING

# FreeScan UE Pro

Multi-Functional Laser Handheld 3D Scanner



**SHINING 3D®**



## FreeScan UE Pro

FreeScan UE Pro Inherits the high-precision, metrology-grade accuracy, and lightweight design of FreeScan UE, while improving the ability of fine scanning and global precision control of large-scale workpiece scanning. It adopts 26+5+1 blue laser lines and integrates a photogrammetric module. Taking into account speed, accuracy and details, which will provide users with professional solutions that can be applied to different size scanning scenarios, and perform metrology-grade accuracy inspection, reverse design, additive manufacturing and other applications.



### Multiple Scanning Modes

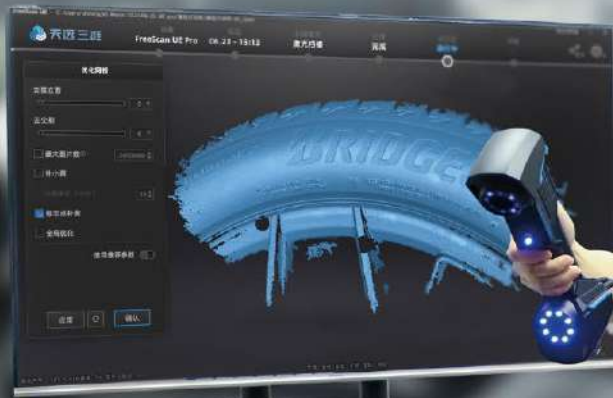
13 cross laser lines to scan the large object quickly, 5 parallels laser lines to scan the fine details and single laser line for deep hole and narrow area scanning.



### Easy Operation

Inherited the lightweight and ergonomic design of UE series, the guided software interface enable an easy operation and shorten the learning curve for any unexperienced users.





### Wide Range of Material Adaptations

Supporting the black and high-reflective surface material scanning, reduce powder spraying, scan more efficiently.



### Fine and Rich Details

With 3.2Mega pixel high resolution cameras and 5 parallel laser lines, it enables rich feature object scanning and restore fine details more accurate.

# APPLICATIONS



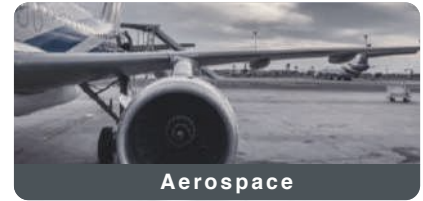
**Automotive**

- Vehicle appearance design
- Supply chain quality management
- Production quality control
- Car personalized modification



**Railway Transportation**

- Modeling design
- Production line assembly and debugging
- Overall size control
- Workpiece repair and maintenance



**Aerospace**

- Aircraft structure inspection
- Interior design
- Engine inspection
- Maintenance and operation



**Energy Manufacturing**

- Reverse engineering design
- Fluid dynamics analysis
- Deformation analysis
- Impeller blade inspection



**Mold Inspection**

- Virtual assembly
- Wear analysis and maintenance
- Quality control
- Fixture design



**Machine Manufacturing**

- Quality inspection and control
- Tool and mold adjustment
- Rapid prototyping inspection
- OEM and old parts remanufacturing

## Software Update Sharing



## 3D Design Software



## 3D Inspection Software



## Software Online Update

Freescan UE Pro 3D Scanning software supports software online updating reminding and we offer for free.

## Data Sharing Platform

Just one-click to share the scanning data to Sketchfab platform at your convenience.



## Seamless docking to inspection and design software

The scan data can be imported into the mainstream 3d inspection and design softwares, such as Geomagic ControlX, Geomagic Design X, Verisurf Inspect and etc with one click, improving the workflow efficiency.

# SPECIFICATION

Product Model	FreeScan UE Pro	
Scan Mode	MultipleLines Scan, Singel Line Scan	Fine Scan
Light Source	26 laser lines + single laser line	5 parallel laser lines
Scan Accuracy	0.02 mm	
Max. Scan Speed	1,390,000 points/s	
Working Distance	300 mm	200 mm
Scan Depth	170 mm ~ 680 mm	
Max. Scan Range	600 mm - 550 mm	
Photogrammetry	Built-in binocular photogrammetry	
Volumetric Accuracy*	0.02+0.03 mm/m (standard mode); 0.02+0.015 mm/m (global error control mode)	
Light Category	Class 2M (eye safe)	
Transmission Mode	USB 3.0	
Volume	298 mm x 103.5mm x 74.5 mm	
Weight	840g	
Powering	12V, 5.0 A	
Working Temperature	-20 ~ 40°C	
Working Moisture	10 ~ 90%	
Certification	CE, FCC, ROHS, WEEE, KC	
Recommended Computer Configuration	OS: Win 10, 64 bit or higher; Graphics card: NVIDIA RTX 3060 or higher, Video Memory: ≥6 GB; Processor: Intel Core i7-10700; Memory: ≥32 GB	

Note: The company reserves the right to explain and modify the parameters and pictures described in this manual.

\* Volumetric accuracy refers to the relationship between 3D data accuracy and object size; the accuracy is reduced by 0.1mm rapid scan)/0.06mm(laserscan) per 100cm.Theconclusion isobtained by measuring the center of sphere under marker alignment.

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