FreeScan UE Pro2

Wireless Multi-Functional Laser Handheld 3D Scanner

Inspect on the move

Flexible Resolution

Be able to change the resolution later according to your need, without restarting the project.

Wireless and Portable

Integrated with Wireless module, FreeScan UE Pro2 liberates you from cables, allowing seamless data transmission during scanning.

Quick On-Site Inspection

Our integrated inspection module ensures rigorous quality control. Simplify operations and enhance fast quality check on-site for you.

Certified and Guaranteed Results

With the volumetric accuracy up to 0.02 mm + 0.015 mm/m using photogrammetry, FreeScan UE Pro2 delivers consistent and reliable global accuracy and scanning results.

Elevated Accuracy for Large-Scale Scans

Patented Binocular Photogrammetry

FreeScan UE Pro2 features patented innovative built-in photogrammetry technology for scanning large objects, quickly optimizing the spatial position of global markers, ensuring consistent accuracy.

Real-time Display of Mesh Data

Our streamlined software displays mesh data in real time as you scan your workpiece, enhancing visual quality and saving time on meshing later on.

Data Quality Visualization

Users can determine if the scanning distance is appropriate by observing the rendering color of the laser lines projected onto the object in the 3D view of the software or by the LED indicator on the scanner.

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3 Functions for Versatile Applications

High-speed scanning

50 Laser Lines

Detail scanning

7 Parallel Laser Lines

Deep hole scanning

1 Laser Line

Scan speed up to

3,460,000

points/sec

Double the Speed, Double the Productivity

FreeScan UE Pro2 offers nearly doucle scanning efficiency compared to the previous generation.

With a rapid scan speed up to 3,460,000 points/s, you can complete the scanning tasks smoothly, thus allowing you to focus on inspection applications to enhance your overall productivity.

Embedded Computing Module

Accelerates data capture and processing, reducing overall scanning time and computer workload, ensuring the wireless scanning mode to achieve same scanning frames as scanner connected with cable.

50 Laser Lines

Ensures faster and more comprehensive scanning.

High Frame Rate

Achieves up to 180fps for smooth and rapid data acquisition.

SPECIFICATIONS

Product model	FreeScan UE Pro2		
Scan mode	Multiple lines scan	Fine scan	Single line scan
Light source	50 laser lines	7 parallel laser lines	1 laser line
Working distance	300 mm (11.8 in)	200 mm (7.9 in)	300 mm (11.8 in)
Scan accuracy	0.02 mm (0.0008 in)		
Volumetric accuracy	0.02 + 0.03 mm/m (0.02 + 0.015 mm/m with photogrammetry) (0.0008 in + 0.00036 in/ft (0.0008 in + 0.00018 in/ft with photogrammetry))		
Scan speed	Up to 3,460,000 points/s		
Scan depth	360 mm (14.2 in)		
Max. FOV	600 x 550 mm (23.6 x 21.7 in)		
Point distance	0.01 ~ 10 mm (0.0004 ~ 0.4 in)		
Laser class	Class II (eye safe)		
Connection standard	USB 3.0		
Dimension	305.8 x 118.9 x 100.8 mm (12.0 x 4.7 x 4.0 in)		
Weight	0.95 kg		
Power input	24V, 3.75A		
Working temperature	-20 ~ 40°C (-4 ~ 104°F)		
Working humidity	10% ~ 90%		
Certifications	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50, TELEC, TiSAX		
Accuracy Certification	VDI/VDE 2634 Part3 (certificated in ISO 17025 certificated accuracy lab)		
Recommended computer configuration	OS: Windows 11 Professional 22H2 (64-bit) Processor: 13th Gen Intel® Core™ i7-13700H or above Graphics Card: NVIDIA GeForce RTX 4060 Laptop GPU or above Video Memory: 8G or above; RAM: 64G or above, DDR5 dual-channel; Interface USB 3.0		

Notice: SHINING 3D reserves the right to modify or adjust the above specifications and pictures.

*Based on VDI/VDE 2634 part3. Sphere-spacing error is assessed with traceable length artefacts and markers by measuring these at different locations and orientations within the working volume, in the accuracy lab with environment conditions: temperature 20 ± 0.5°C; humidity 40 ~ 60% RH.