



SHINING 3D

FREESCAN COMBO

Hybrid Light Source and Multifunctional
Handheld 3D Scanner

DELIGHT THE METROLOGY SCANNING



V·GER

COMPETENCE IN 3D SCANNING

FREESCAN COMBO

The FreeScan Combo, with a small size of 193x63x53mm and weighed only 620g, has dual light sources: blue laser and infrared VCSEL. Being a lightweight and portable metrology scanner, it is equipped with for working modes: multiple lines scanning, single line scanning, fine scanning, infrared scanning.

It can be used to achieve metrology-level precision inspection, reverse design, additive manufacturing, and other applications in many manufacturing sectors, including the automotive industries, aerospace, rail transportation, heavy industries, mold manufacturing, casting and foundry and medical industries.



LIGHT SOURCE

Blue laser + Infrared VCSEL



ACCURACY

Up to 0.02mm



WEIGHT

620g



COMPACT SIZE

193mm×63mm×53mm





BLUE LASER + INFRARED LIGHT

An innovative combination of blue laser and infrared light sources meets the needs of diverse industrial 3D scanning scenarios.



4 SCANNING MODES, MULTIPLE SCAN CHOICES

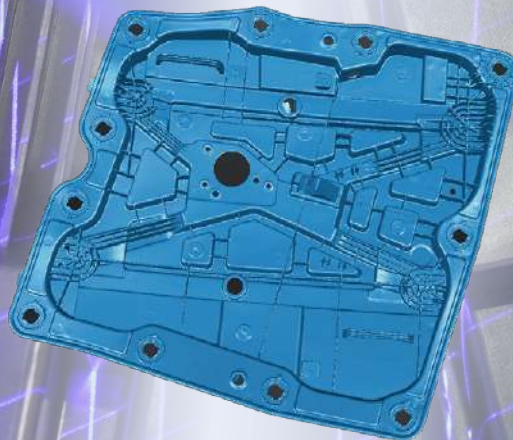
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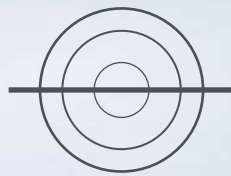
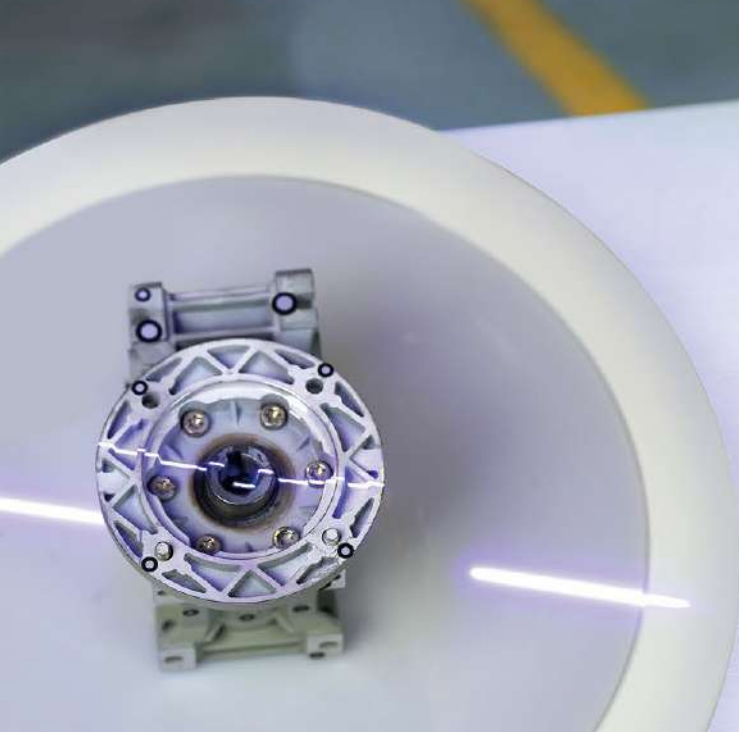
13 cross blue laser lines for global scanning;
7 parallel blue laser lines for fine scanning details;
1 single blue laser line to obtain deep hole data;
Infrared light source scanning fast and without markers.

1.86 million
points/sec

13 CROSS LASER LINES

Global scanning, smooth and efficient
Smooth scanning, no fear of black or reflective surface.





DEEP HOLE SCANNING WITH COMPLETE DATA

Optimized lens angle for better acquisition of deep hole data
Ensuring complete data for full-size 3D inspection



INFRARED LIGHT SCANNING

No markers needed for feature-rich workpieces
Infrared light source can be used directly to scan quickly
Outdoor scanning

620g

POWERFUL AND ELEGANT

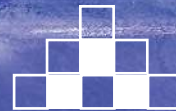
Ergonomic design, compact, convenient and easy to use
Metal case in line with modern industrial aesthetics



0.02^{UP TO}mm

A WISE CHOICE OF METROLOGY APPLICATION

Metrology-grade accuracy, the accuracy under the multiple lines scanning mode can achieve up to 0.02mm.



PRECISE SCANNING AND FINE DETAIL RESTORATION

Small scanning scope and 7 parallel laser lines.
Scans fine features and accurately reproduces details



SPECIFICATION

Product Model	FreeScan Combo			
Scan Mode	Multiple Lines Scan	Single Line Scan	Fine Scan	Infrared Scan
Light Source	13 cross laser lines	Single laser line	7 parallel laser lines	VCSEL Light Source
Working Distance	300 mm	300mm	200 mm	300mm
Scan Accuracy	Up to 0.02mm			
Scan Speed	1,860,000 points/s			2,020,000 points/s
Scan Depth	360 mm (Laser lines)			
Max. Scan Range	520 mm×510 mm (Laser lines)			
Volumetric Accuracy*	0.02 + 0.033 mm/m (Laser lines)			
Point Distance	0.01mm-3mm (Laser lines)			
Laser Class	Class II (eye safe)			
Connection Standard	USB 3.0			
Dimension	193 mm x 63 mm x 53 mm			
Weight	620 g			
Power Input	12V, 5.0A			
Working Temperature	-20 ~ 40°C			
Working Humidity	10 ~ 90%			
Certification	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50			
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			

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

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