

FREESCAN COMBO Series

Hybrid Light Source and Multifunctional Handheld 3D Scanner

COMPACT AND POWERFUL METROLOGY

The powerful FreeScan Combo packs dual lightsources in an ultra-compact shell, measuring just 193×63×53mm. It's equipped with both blue laser and infrared VCSEL technology and weighs in at only 620g.

This lightweight,handheld 3D scanner offers fourmodes: multiple-line scanning, single-line scanning, fine scanning, and infrared scanning.

The FreeScan Combo+ Multi-Line Scanning Mode is capable of up to 50 lines and scan speed up to 3,584,000 points/sec. With its superb scanning speed and efficiency, the FreeScan Combo+ can easily handle a wide range of use cases.

It achieves metrology-grade precision for inspection, reverse engineering, product design, additivemanufacturing, and other demanding applications in a wide range of sectors.





VERSATILE Laser + VCSEL



LIGHTWEIGHT Only 620g



ACCURATE Up to 0.02mm



COMPACT 193×63×53mm

620a

620g POWERFUL AND ERGONOMIC

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



UP TO 0.02 mm A WISE CHOICE FOR METROLOGY APPLICATION

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



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

Multi-lines modes 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.



PRECISE AND FINE **DETAIL SCANNING**

Smaller scanning area with 7 parallel laser lines.



INFRARED LIGHT SCANNING

No markers needed for feature-rich workpieces. Infrared light source can be used directly to scan guickly.

SPECIFICATION



Up to 3,600,000 points/s FreeScan Combo+ **50 LASER LINES FreeScan Combo** 26 LASER LINES

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



DEEP HOLE SCANNING WITH COMPLETE DATA

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

Product Model	F	FreeScan Combo Series
Scan Mode	Laser Scan	Infrared Scan
Light Source	FreeScan Combo+ FreeScan 50 laser lines 26 lase 7 parallel laser lines / Fine Single laser line	er lines VCSEL Light Source
Scan Speed	3,600,000 points/s 1,860,000	points/s 2,250,000 points/s
Working Distance	300 mm / 300 mm / 200	mm 300 mm
Scan Accuracy	Up to 0.02 mm	Up to 0.05 mm
Volumetric Accura	cy ⁽¹⁾ 0.02 + 0.033 mm/m	0.05 + 0.1 mm/m
Scan Depth	360 mm	1240 mm ⁽²⁾
Max. FOV	520 x 510 mm	600 x 600 mm
Point Distance	0.05 ~ 10 mm	0.1 ~ 3 mm
Laser Class	r Class II (eye safe)	
Connection Standa	ard	USB 3.0
Dimension	193	3 mm x 63 mm x 53 mm
Weight		620 g
Power Input		12V, 5.OA
Working Temperate	ıre	-20 ~ 40℃
Working Humidity		10 ~ 90%
Certification	CE, FCC, R	OHS, WEEE, KC, FDA, UKCA, IP50
RecommendedOS:Win10/ 11, 64 bit;Graphics card: NVIDIA GTX/RTX series cards, higher or equal to GeForce RTX 3060;Computzer ConfigurationVideo memory:≥6 G;Processor:17-10700;Memory:≥32 GB		

Notice: SHINING 3D reserves the right to modify or adjust above specifications and pictures. (1): Based on VDI/VDE 2634 part 3 standard. Sphere-spacing error is assessed with traceable length artefacts and markers by measuring these at different locations and orientations within the working volume. (2): Scan depth can be manually adjusted in Infrared scan. Maximum is 1240mm.

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