

FRESCAN COMBO Series

Hybrid Light Source and Multifunctional

Handheld 3D Scanner

COMPACT AND POWERFUL METROLOGY

Distributed by AFINIA 3D

FREESCAN COMBO Series

Scanners from the powerful FreeScan Combo Series pack dual light sources in an ultra-compact shell, measuring just $193 \times 63 \times 53$ mm. They're equipped with both blue laser and infrared VCSEL technology and weigh in at only 620g.

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

Its multiple-line mode projects up to 50 laser lines (FreeScan Combo + version) and scan at speeds of up to 3,600,000 points/sec.

The FreeScan Combo Series' efficiency, combined with its hybrid technology, wide FOV, and material adaptability, make it highly versatile.

From inspection, reverse engineering, and product design to additive manufacturing and other demanding applications, the FreeScan Combo and Combo + can easily handle a wide range of use cases.



VERSATILE Laser + VCSEL



ACCURATE
Up to 0.02mm



LIGHTWEIGHT

Only 620g



COMPACT 193 × 63 × 53mm













SPECIFICATIONS

Model	FreeScan Combo Series	
Scan modes	Laser	Infrared
Light source	FreeScan Combo+ FreeScan Combo	VCSEL
	50 laser lines 26 laser lines	
	7 parallel laser lines 1 single laser line	
Scan speed	3,600,000 points/s 1,860,000 points/s	2,250,000 points/s
Working distance	300 mm / 200 mm	300 mm
Scan accuracy	Up to 0.02 mm	Up to 0.05 mm
Volumetric accuracy (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	Class II (eye-safe)	
Connectivity	USB 3.0	
Dimensions	193 x 63 x 53 mm	
Weight	620 g	
Power input	12V, 5.0A	
Operating temperature rar	Operating temperature range -20 ~ 40° C	
Operating humidity range	10 ~ 90%	
Certifications	CE, FCC, ROHS, WEEE, KC, FDA, UKCA, IP50	
Recommended computer configuration	OS: Windows 10 Pro (64-bit) / Windows 11 Pro (64-bit); CPU: 13th Gen Intel (R) Core (TM) i7-13650HX 2.6 GHz or above; Video card: NVIDIA GeForce RTX 4060 or above Video memory: 8GB or above; RAM: 64GB or above, DDR5 dual-channel; USB port: USB 3.0	

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 mode. Maximum is 1240mm.

Version number: FreeScan Combo Series-EN 20240407-V1.1



