

FREESCAN COMBO

Hybrid Light Source and Multifunctional
Handheld 3D Scanner

DELIGHT THE METROLOGY 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 four working modes: multiple lines scanning, single line scanning, fine scanning, infrared scanning.

It can be used to achieve metrology-grade 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



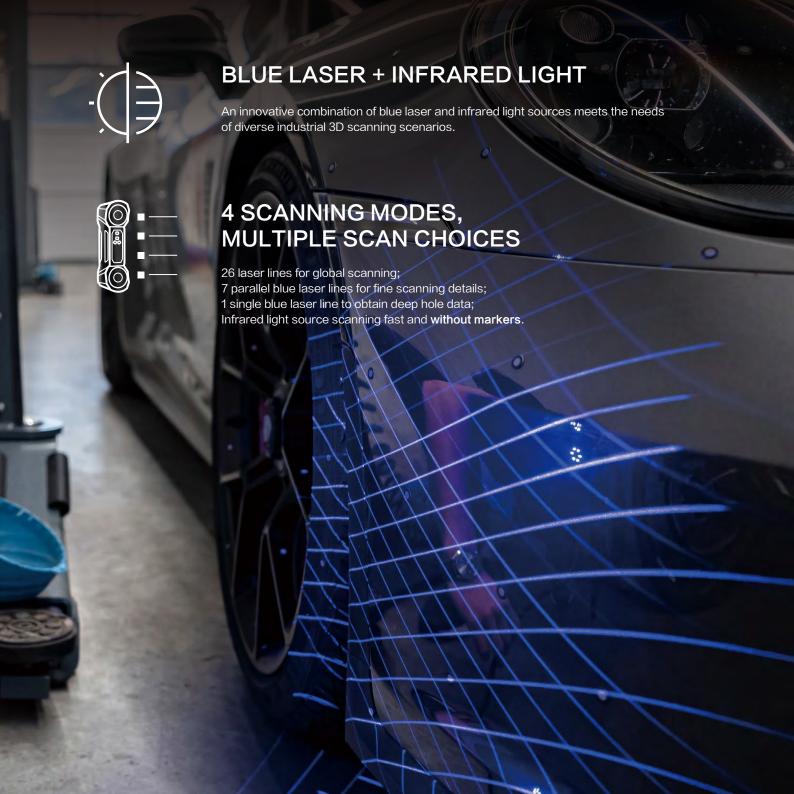
WEIGHT 620g



COMPACT SIZE

193mm × 63mm × 53mm













SPECIFICATION

Product Model	FreeScan Combo			
Scan Mode	Laser Scan			Infrared Scan
	Multiple Lines Scan	Single Line Scan	Fine Scan	Initialed Scali
Light Source	26 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			/
Volumetric Accuracy ⁽¹⁾	0.02 + 0.033 mm/m			0.05+0.1mm/m
Scan Speed	1,860,000 points/s			2,250,000 points/s
Scan Depth	360 mm			1240mm ⁽²⁾
Max. FOV	520 mm x 510 mm			600mm x 600mm
Point Distance	0.05mm-3mm			0.1mm-3mm
Laser Class	Class ∥ (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: Win10/11, 64 bit; Graphics card: NVIDIA GTX/RTX series cards, higher or equal to GeForce RTX 3060; Video memory: ≥6 G; Processor: I7–10700; Memory: ≥32 GB			

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

Version Number: FreeScan Combo-EN 20230410-V1.2



^{(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.