

SPECIFICATIONS

Product Model		FreeScan Combo		
Scan Mode	Laser Scan			Infrared Scan
	Multiple Lines Scan	Single Line Scan	Fine Scan	
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			600 mm x 600 mm
Point Distance	0.05mm–3mm			0.1mm–3mm
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: 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.

(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.

Version Number: FreeScan Combo-EN 20230516-V1.3