



SHINING 3D®

EXXJET

# FREESCAN

## COMBO Series



COMPACT AND POWERFUL METROLOGY HANDHELD 3D SCANNER



Dual Light Sources  
Blue Laser + Infrared VCSEL Technology  
Light Weigh only Up to 620g



4 Modes  
Multi-Line Scanning  
Single-Line Scanning  
Fine Scanning  
Infrared Scanning



Accurate Up to 0.02mm  
Scan at Speeds of Up  
to 3,600,000 points/ sec



Applications  
From inspection, reverse engineering,  
and product design to additive manufacturing.

# 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 <sup>(1)</sup>	0.02 + 0.033 mm/m		0.05 + 0.1 mm/m
Scan depth	360 mm		1240 mm <sup>(2)</sup>
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 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



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