

SIMSCAN – E/S Gen2

The SIMSCAN-S Gen2 is a palm-sized 3D scanner with high accuracy. It offers wireless freedom, ultra-fast scanning, and flexible operating modes.

It enhances accuracy by robust algorithm and advanced craftsmanship, while incorporating sphericity and flatness into its accuracy control—keeping precision as the foundation and further ensuring geometric fidelity and detailed measurements.

Ideal for high-precision machined and complex parts, the SIMSCAN-S Gen2 is designed to make precision scanning faster, more detailed, and more reliable than ever.

From Accurate Measurement to Assured Geometry

- Combines advanced optics and algorithms -Sphericity and flatness control
- Capture precise dimensions, surface deviations, and details
- For aerospace, precision machining, and mold.

Go lighter. Go wireless

- Magnesium-alloy housing
- Weighs just 560 g
- Wireless freedom
- Stable data transfer and fast processing

Scan Where Others Can't

- A steep viewing angle
- Get reliable results even in the most hard-to-reach areas
- Easily captures gaps, deep holes, slots, and channels - Complete and accurate 3D data you can trust
- For inspection, design, and reverse engineering.

Work Smarter with DefinSight

- Powered by DefinSight all-in-one 3D digitization software
- From scanning to analysis
- Simple, fast, and intuitive workflows
- Less time processing data and more time making decisions

Compact and Easy to Use

- Ergonomic design and new detachable charging base - Compact and easy to use
- Intuitive display

One Scanner. Any Job.

- Ultra-fast scanning, hyperfine scanning, and deep hole scanning
- Capture the overall geometry in seconds
- One device adapts to your task

Capture More. Scan Faster

- Handle complex parts with ease
- Capture massive amounts of 3D data instantly
- Enjoy smooth, lag-free scanning, and stay productive

Total Blue Laser Lines

126 lines

Max Measurement Rate

8,100,000 measurements/s

Max Frame Rate

180 FPS



Technical Specifications

Type		SIMSCAN-S Gen2	SIMSCAN-E Gen2
Scan mode	Ultra-fast scanning	108 blue laser lines (Quad Cross Technology)	
	Hyperfine scanning	17 blue parallel laser lines	
	Deep hole scanning	1 extra blue laser line	
Accuracy ⁽¹⁾		0.015 mm	Up to 0.020 mm
Scanning rate up to		8,100,000 measurements/s	
Scanning area up to		700 mm × 600 mm	
Laser class		Class II (eye-safe)	
Resolution up to		0.020 mm	
Volume accuracy ⁽¹⁾	Standard	0.015 mm + 0.030 mm/m	0.015 mm + 0.035 mm/m
	Adaptive Photogrammetry ⁽²⁾	0.015 mm + 0.012 mm/m	0.015 mm + 0.015 mm/m
Sphericity		0.025 mm	-
Flatness		0.035 mm	-
Stand-off distance		300 mm	
Depth of field		550 mm	
Output formats		.stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.	
Interface mode		USB 3.0	
Dimensions		203 mm × 80 mm × 44 mm	
Weight		560 g	
Operating temperature range		-10–40°C	
Operating humidity (non-condensing)		10 ~ 90% RH	
Wireless standard		Wi-Fi 6, 802.11a/b/g/n/ac	
Patent		US10309770B2, US11060853B2, KR102096806B1, EP3392831B1, EP3907702B1, CN204329903U, CN104501740B, CN204854633U, CN204944431U, CN204902788U, CN105068384B, CN105049664B, CN204902784U, CN204902785U, CN106403845B, CN110030946B, CN212300269U, CN211904059U, CN211696268U, CN306053019S, CN212606697U, CN306321502S, CN214149177U, CN214747767U, CN216115893U, CN114001671B, CN113470180B, CN113218417B, CN111833392B, CN115682981B, CN113593015B, CN119919604B, CN223472293U, CN119359964B, CN223527609U, CN116045843B, CN223596816U, CN223829356U, CN309777650S, CN309793071S	

(1) ISO 17025 accredited: Performance is evaluated based on ISO 10360-13 standard, VDI/VDE 2634 Part 3 and JJF1951 specification.

(2) Paired with high-precision scale bar.



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