Palm-sized 3D Scanner
with High Accuracy

Gen2

SIMSCAN-E/S

Confidence in Every Critical Surface

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.

Go Lighter. Go Wireless

Work freely with a lightweight and fully wireless device. Built with a magnesium-alloy housing, it weighs just 560 g for easy handling. Powered by edge computing and wireless data transfer, it delivers true wireless freedom—whether tackling confined spaces or working at height. Stable data transfer and efficient processing ensure smooth, reliable performance throughout your workflow.

560 g

Intuitive display

Compact and Easy to Use

The 3D scanner's ergonomic design and new detachable charging base make it compact and easy to use.
It also comes with an intuitive display, which lets you view and monitor data in real time, helping you scan faster and work more efficiently.

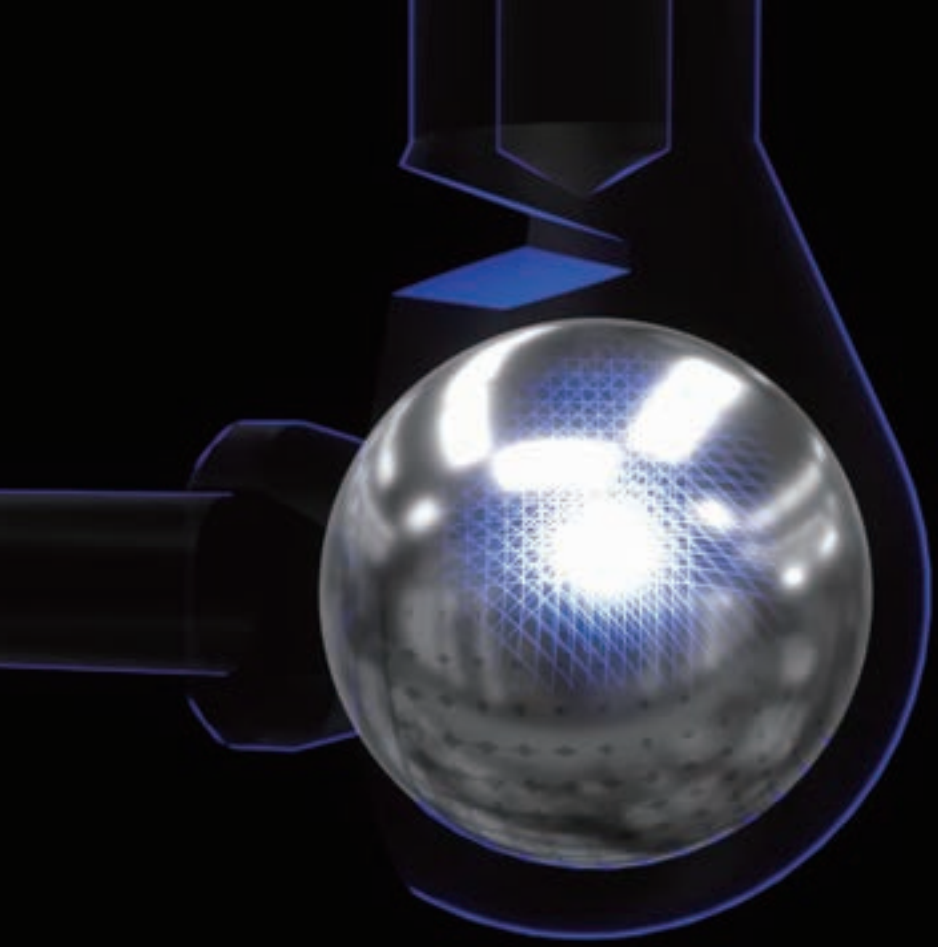
From Accurate Measurement to Assured Geometry

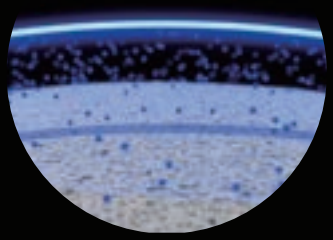
With enhanced optics and advanced algorithms, SIMSCAN-S Gen2 delivers accuracy of 0.015 mm. Thanks to its sophisticated sphericity and flatness control, it captures both precise dimensions and surface deviations.
The system ensures highly detailed measurements and strengthens verification at the feature level. It enables more dependable control of GD&T-critical characteristics, including functional surfaces, precision-machined features, and assembly-defining geometries.
Compliant with ISO 10360, the SIMSCAN-S Gen2 ensures results you can trust worldwide.

Accuracy
0.015 mm

Volumetric Accuracy
0.015 + 0.03 mm/m

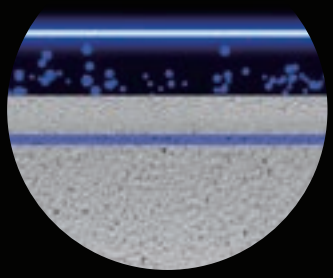
ISO Standard
ISO 10360





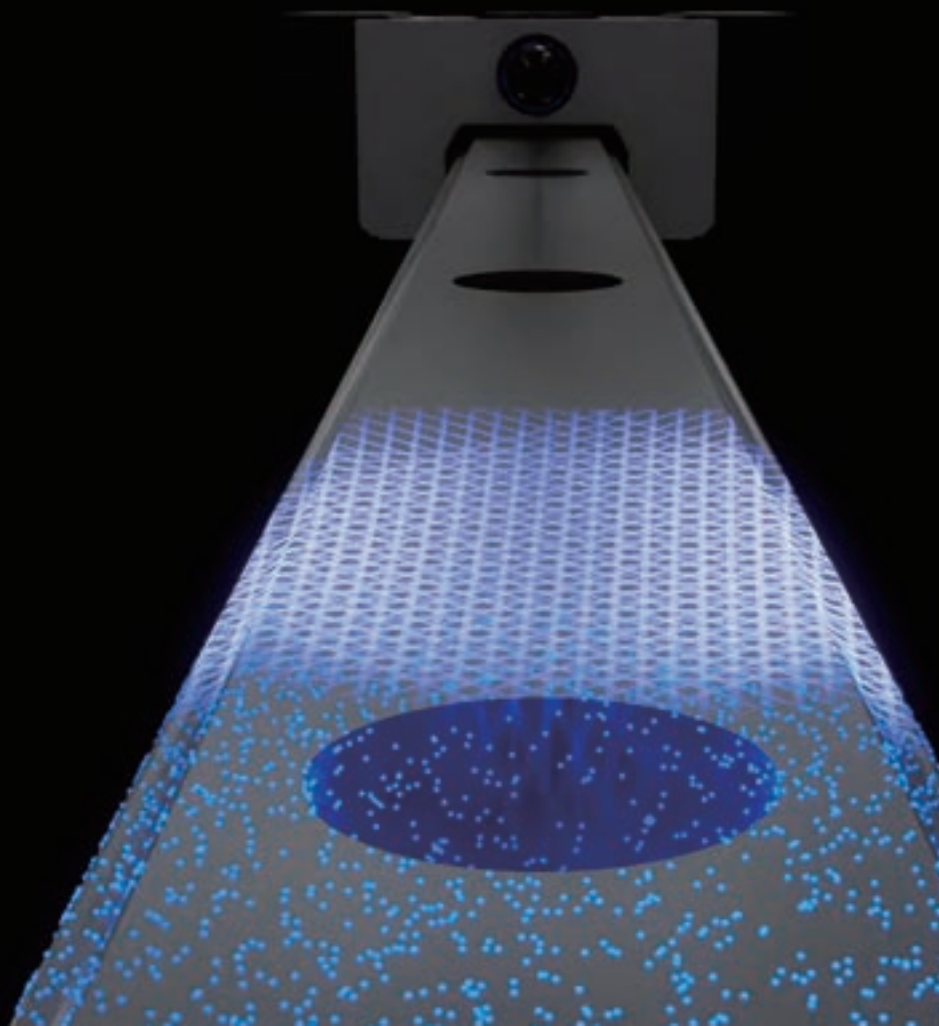
Sphericity

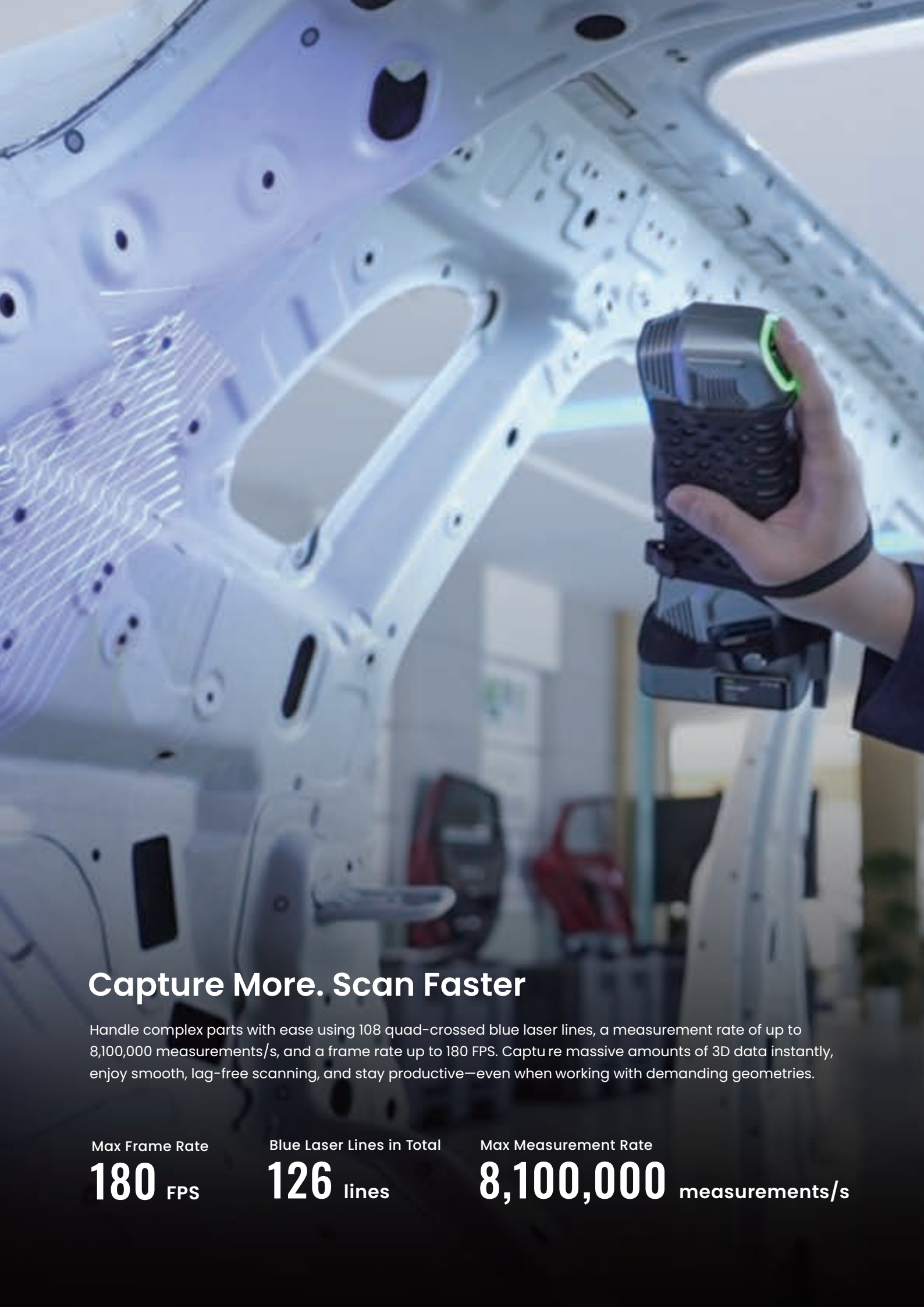
0.025 mm



Flatness

0.035 mm





Capture More. Scan Faster

Handle complex parts with ease using 108 quad-crossed blue laser lines, a measurement rate of up to 8,100,000 measurements/s, and a frame rate up to 180 FPS. Captu re massive amounts of 3D data instantly, enjoy smooth, lag-free scanning, and stay productive—even when working with demanding geometries.

Max Frame Rate
180 FPS

Blue Laser Lines in Total
126 lines

Max Measurement Rate
8,100,000 measurements/s

Scan Where Others Can’t

Get reliable results even in the most hard-to-reach areas. Thanks to its short-baseline camera design, SIMSCAN-S Gen2 easily captures gaps, deep holes, slots, and channels with a steep viewing angle. No matter how complex the part, you get complete and accurate 3D data you can trust for inspection, design, and reverse engineering.

One Scanner. Any Job.

Switch effortlessly between ultra-fast scanning, hyperfine scanning, and deep hole scanning. Capture the overall geometry in seconds, zoom in on fine details, and capture deep and hidden features with confidence. One device adapts to your task—without slowing you down.

Work Smarter with DefinSight

From scanning to analysis, everything happens in one place. DefinSight, SCANOLOGY's all-in-one 3D digitization software, keeps your workflow simple, fast, and intuitive—so you spend less time processing data and more time making decisions.

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 （eye-safe）	
Resolution up to		0.020 mm	
Volume accuracy[1]	Standard	0.015 mm + 0.03 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.

Metrology UK

Visit: www.MetrologyUK.com
Email: Info@metrologyuk.com
Tel: +44(0) 1684 891372