

# Work Smarter with DefinSight

From scanning to analysis, everything happens in one place. DefinSight, SCANOLGY’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 <sup>(1)</sup>             |                                        | 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                         |                                        | ClassII (eye-safe)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |
| Resolution up to                    |                                        | 0.020 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |
| Volume accuracy <sup>(2)</sup>      | Standard                               | 0.015 mm + 0.03 mm/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.015 mm + 0.035 mm/m |
|                                     | Adaptive photogrammetry <sup>(2)</sup> | 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.

## SCANTECH (HANGZHOU) CO., LTD. (HQ)

0086 571-85852597

0086 571-85370381

[www.3d-scantech.com](http://www.3d-scantech.com)

[info@3d-scantech.com](mailto:info@3d-scantech.com)

Building 12, No.998, West Wenyi Road, Yuhang District, Hangzhou, Zhejiang, China

SIMSCAN-S Gen2  
01292026-V1.0



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

## 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.



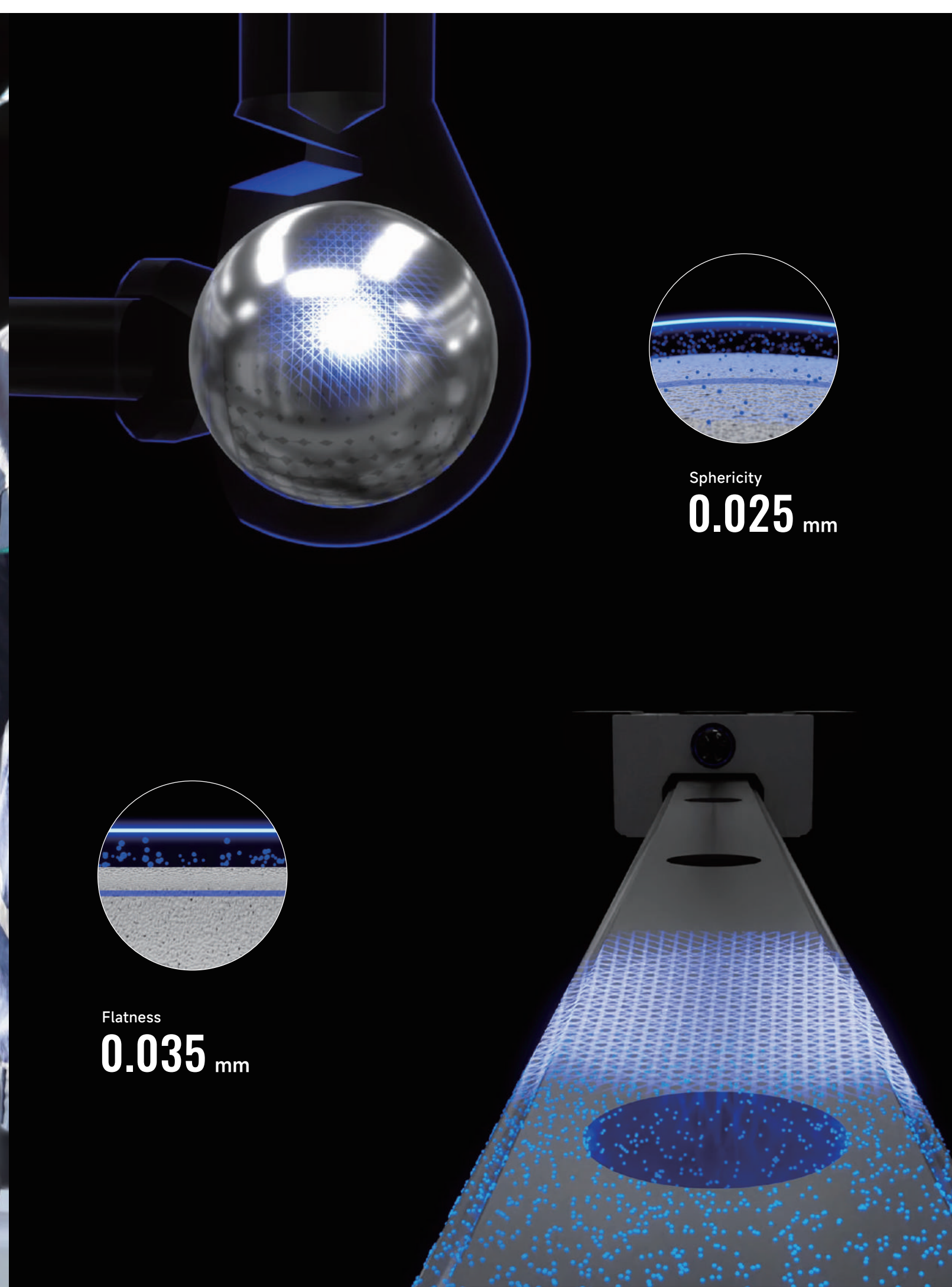
# From Accurate Measurement to Assured Geometry

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

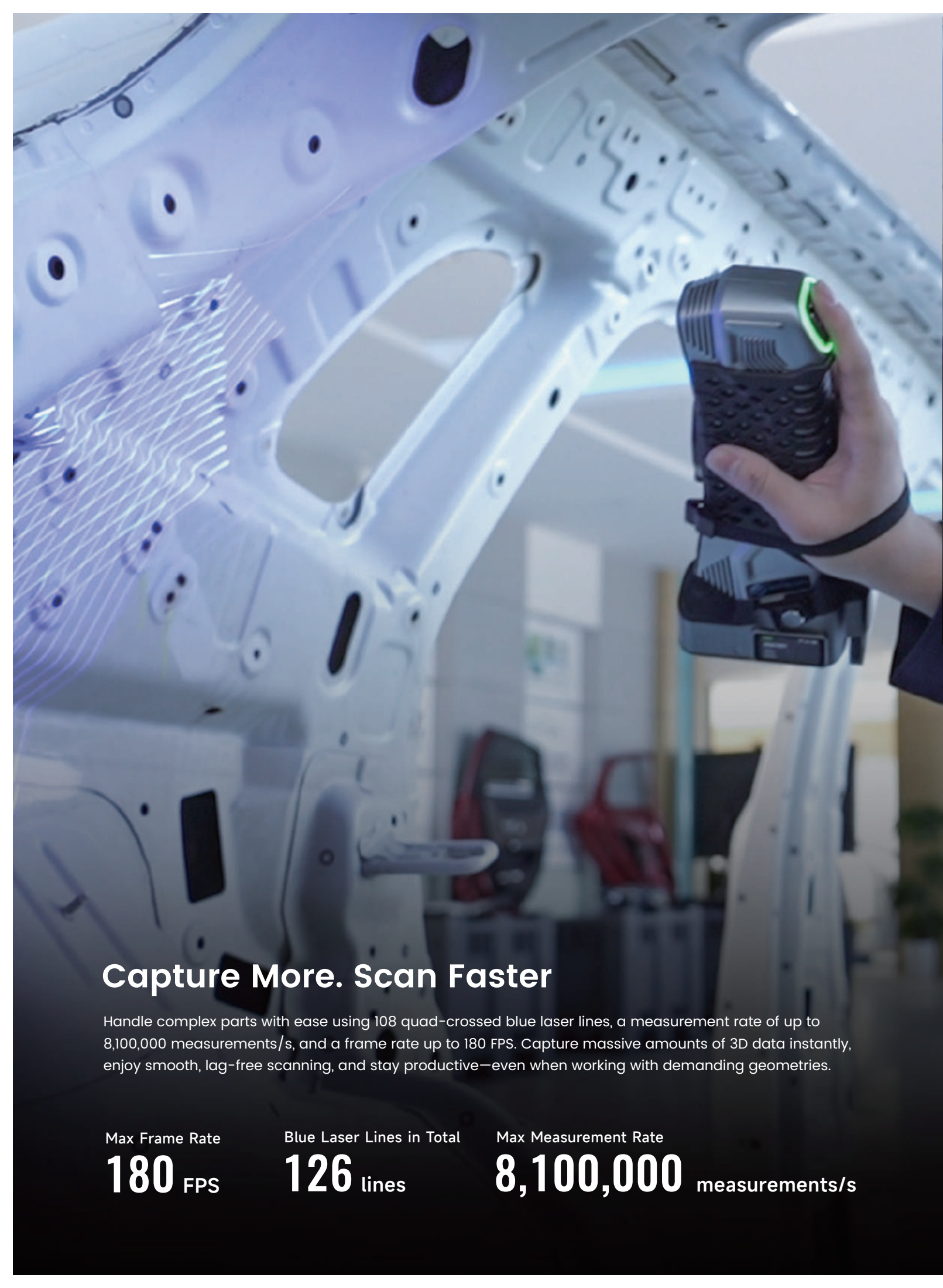
Volumetric Accuracy  
**0.015 + 0.03** mm/m

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. Capture massive amounts of 3D data instantly, enjoy smooth, lag-free scanning, and stay productive—even when working with demanding geometries.

Max Frame Rate

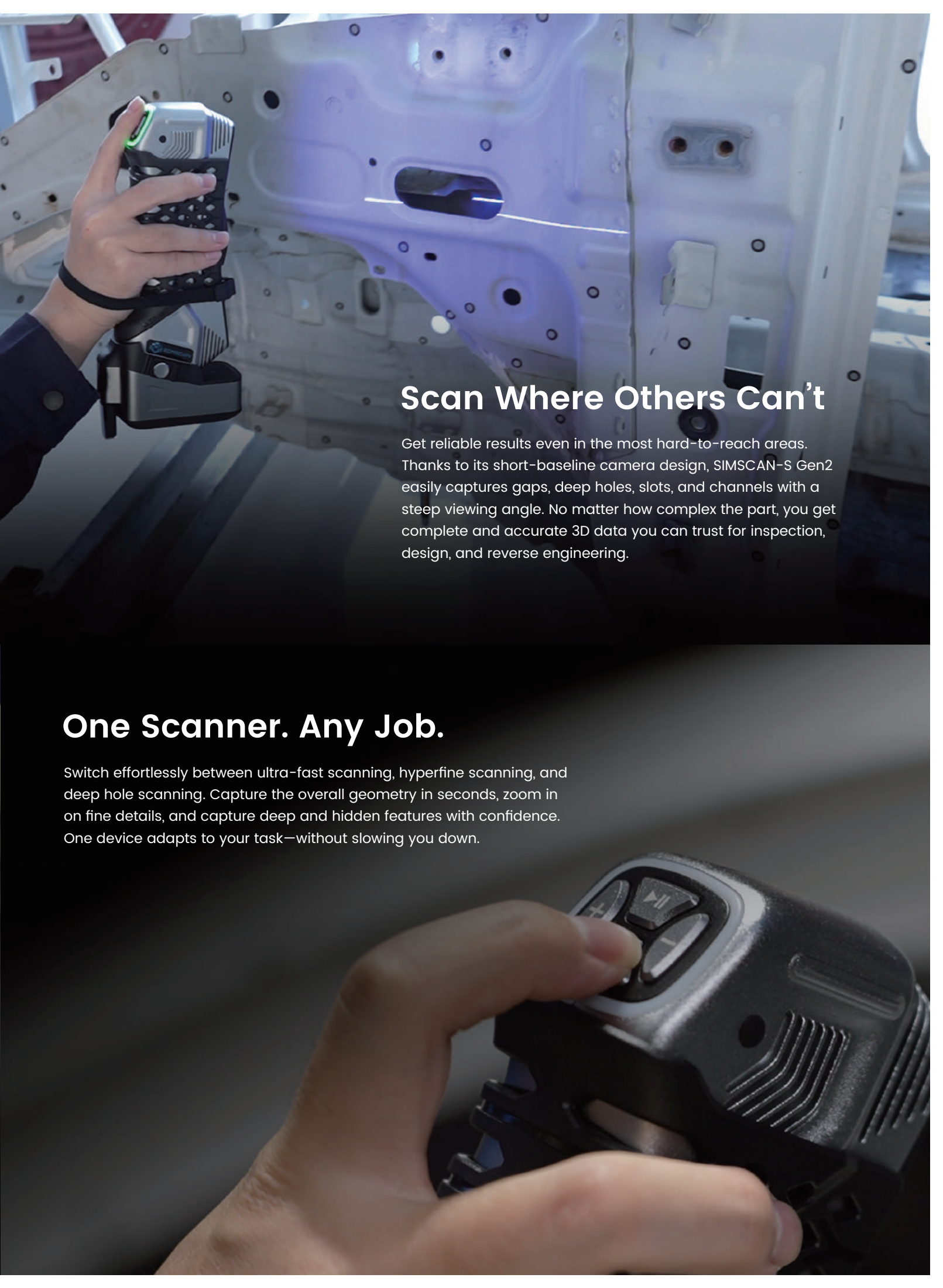
**180** FPS

Blue Laser Lines in Total

**126** lines

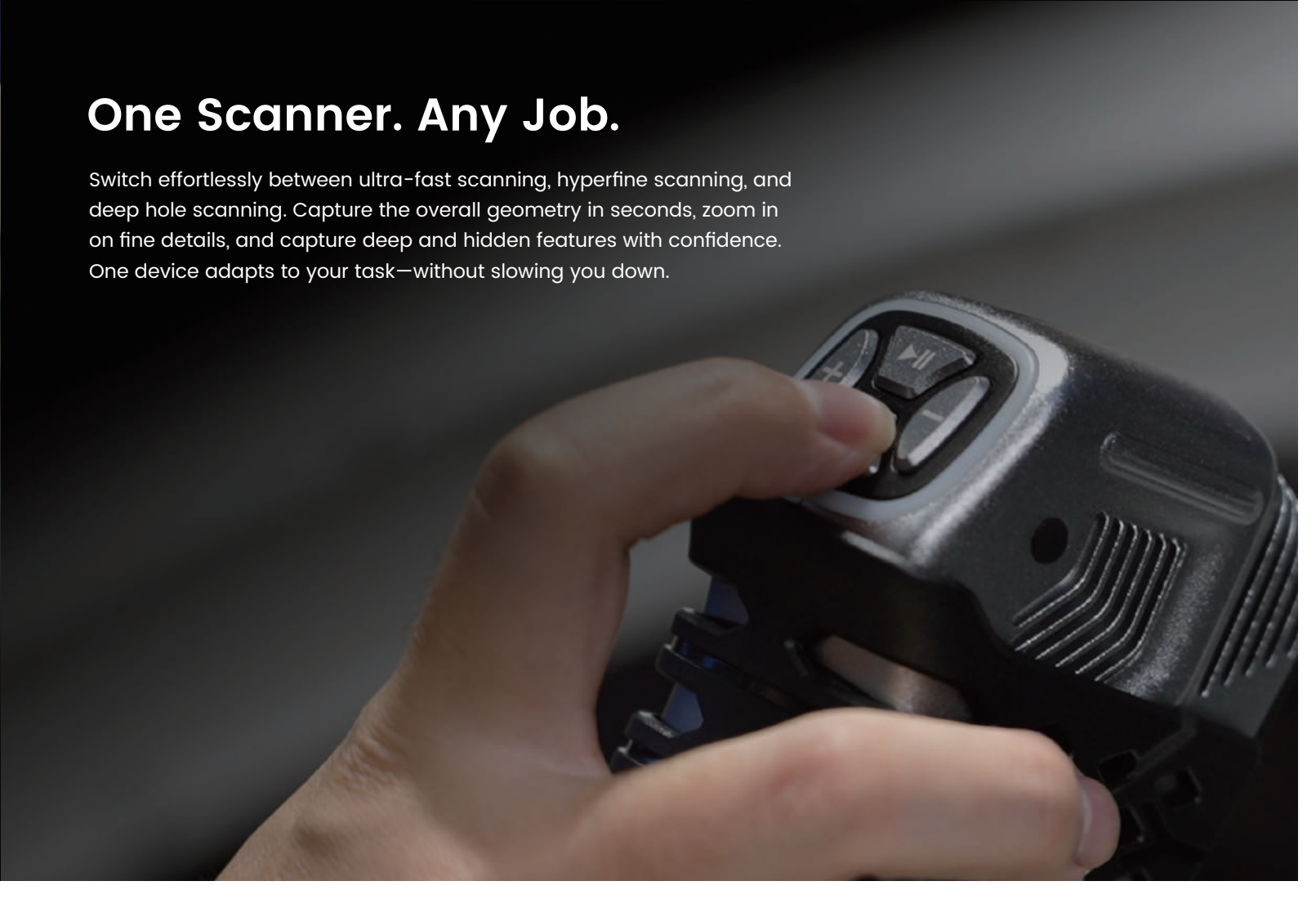
Max Measurement Rate

**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.