







HandySCAN3D >™

WHEN ACCURACY MEETS VERSATILITY AND PORTABILITY

The HandySCAN 3D™ line-up is a proven and trusted patented metrology-grade 3D scanner. Optimized to meet the needs of design, manufacturing and metrology professionals, it provides the most effective and reliable way to acquire accurate 3D measurements of physical objects anywhere.

Portable, accurate and simple to use, the HandySCAN 3D features unmatched speed that captures high-quality measurements. Since it performs regardless of environment changes or part movement, it represents the ideal tool for quality assurance and product development applications.



ACCURACY OF 0.025 mm (0.0009 in)



SCAN-TO-MESH IN SECONDS



CERTIFIED ISO 17025



WORLDWIDE SUPPORT



SCANNING AREA

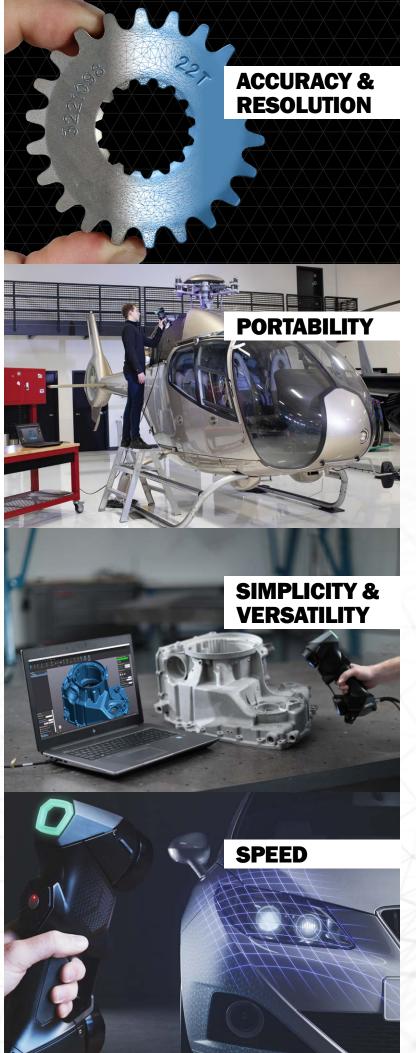


PATENTED TECHNOLOGY





- High-performance optics
 Optimal scan quality
- 2 Extra single line Easy capture of hard-to-reach areas
- 3 Blue laser technology High resolution capability
- 4 Stand-off distance color indicator Maximizes scanning performance
- Multifunction buttons
 Quick access to frequently used
 software functionalities
- 6 Highly ergonomic and sleek design Provides outstanding user experience



The HandySCAN 3D delivers accurate, high-resolution and repeatable results, regardless of the measurement setup quality and no matter the user experience. Featuring dynamic referencing, both the scanner and part can move during measurement and still provide an accurate and high-quality scan.

Accuracy

0.025 mm (0.0009 in)

Volumetric accuracy

0.020 + 0.040 mm/m (0.0008 in + 0.0005 in/ft)

Reliable acceptance test

Based on VDI/VDE 2634 part 3 standard ISO 17025 accredited laboratory

High resolution for fine details

This handheld 3D scanner is a stand-alone device that does not require a tripod nor any external tracking device to operate. Fitting in a small suitcase, it can be brought anywhere and used in any environmental conditions without affecting its performance.

Lightweight

0.94 kg (2.1 lb)

Dynamic referencing

Both the object and scanner can be moved freely while scanning

Fits into a suitcase

Take it anywhere you need

With its user-friendly interface and ergonomic design, the HandySCAN 3D measurement solution has a short learning curve. Highly versatile, it can be used to scan various object sizes and surface types in real time—all with the same device.

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Simple user interface and real-time mesh visualization

Single device fits all needs

Masters complex and difficult surfaces

The HandySCAN 3D scanner features multiple laser crosses and an automatic mesh generation, enabling a faster workflow from the set-up to the scan and then to the file!

Instant mesh

Ready-to-use files

High measurement rate

Up to 1,300,000 measurements/s

11 laser crosses scanning area

Quick set-up

Up and running in less than 2 minutes $\,$

TECHNICAL SPECIFICATIONS

Innovating technology that provides TRUaccuracy™, TRUsimplicity™, TRUportability™ as well as real speed to your metrology-grade applications.

	HandySCAN 307™	HandySCAN BLACK™	HandySCAN BLACK™IElite
ACCURACY ⁽¹⁾	Up to 0.040 mm (0.0016 in)	0.035 mm (0.0014 in)	0.025 mm (0.0009 in)
VOLUMETRIC ACCURACY (2) (based on part size)	0.020 mm + 0.100 mm/m (0.0008 in + 0.0012 in/ft)	0.020 mm + 0.060 mm/m (0.0008 in + 0.0007 in/ft)	0.020 mm + 0.040 mm/m (0.0008 in + 0.0005 in/ft)
VOLUMETRIC ACCURACY WITH MaxSHOT Next™IElite (3)		0.020 mm + 0.015 mm/m (0.0008 in + 0.00018 in/ft)	
MEASUREMENT RESOLUTION	0.100 mm (0.0039 in)	0.025 mm (0.0009 in)	
MESH RESOLUTION	0.200 mm (0.0078 in)	0.100 mm (0.0039 in)	
MEASUREMENT RATE	480,000 measurements/s	800,000 measurements/s	1,300,000 measurements/s
LIGHT SOURCE	7 red laser crosses	7 blue laser crosses	11 blue laser crosses (+ 1 extra line)
LASER CLASS	2M (eye safe)		
SCANNING AREA	275 x 250 mm (10.8 x 9.8 in)	310 x 350 mm (12.2 x 13.8 in)	
STAND-OFF DISTANCE	300 mm (11.8 in)		
DEPTH OF FIELD	250 mm (9.8 in)		
PART SIZE RANGE (recommended)	0.1-4 m (0.3-13 ft)	0.05-4 m (0.15-13 ft)	
SOFTWARE	VXelements		
OUTPUT FORMATS	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf		
COMPATIBLE SOFTWARE (4)	3D Systems (Geomagic® Solutions), InnovMetric Software (PolyWorks), Metrologic Group (Metrolog X4), New River Kinematics (Spatial Analyzer), Verisurf, Dassault Systèmes (CATIA V5, SOLIDWORKS), PTC (Creo), Siemens (NX, Solid Edge), Autodesk (Inventor, PowerlNSPECT)		
WEIGHT	0.85 kg (1.9 lb)	0.94 kg (2.1 lb)	
DIMENSIONS (LxWxH)	77 x 122 x 294 mm (3.0 x 4.8 x 11.6 in)	79 x 142 x 288 mm (3.1 x 5.6 x 11.3 in)	
CONNECTION STANDARD	1 X USB 3.0		
OPERATING TEMPERATURE RANGE	5-40°C (41-104°F)		
OPERATING HUMIDITY RANGE (non-condensing)	10-90%		
CERTIFICATIONS	EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE		
PATENTS	CA 2,600,926, CN 200680014069.3, US 7,912,673, CA 2,656,163, EP (FR, UK, DE) 1,877,726, AU 2006222458, US 8,032,327, JP 4,871,352, US 8,140,295, EP (FR, UK, DE) 2,278,271, EP (FR, UK, DE) 2,230,482, IN 266,573, US 7,487,063, CA 2,529,044, EP (FR, UK, DE) 3,102,908, US 15/114,563, CN 201580007340X		

- (1) HandySCAN BLACK and HandySCAN BLACKIElite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Probing error performance is assessed with diameter measurements on traceable sphere artefacts.
 HandySCAN 307: Typical value for diameter measurement on a calibrated sphere artefact.
- (2) HandySCAN BLACK and HandySCAN BLACKIElite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Sphere-spacing error is assessed with traceable length artefacts by measuring these at different locations and orientations within the working volume.

 HandySCAN 307: Value for spheres spacing measurement on a calibrated length artefact.
- (3) The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default volumetric accuracy of the chosen system and model.
- (4) Also compatible with all major metrology, CAD, and computer graphic software through mesh and point cloud import.



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