



HandySCAN3D ™

SILVER Series
**PROVEN AND TRUSTED
PROFESSIONAL 3D SCANNERS
AT AN ACCESSIBLE PRICE**



WATCH PRODUCT VIDEO

CREAFORM

AMETEK®

HandySCAN3D™

WHEN ACCURACY MEETS VERSATILITY AND PORTABILITY

The SILVER Series is part of the HandySCAN 3D™ line-up, the industry standard in portable metrology-grade 3D scanners. This proven and trusted patented technology captures accurate and repeatable 3D measurements of any complex surface in any location.

The HandySCAN 3D | SILVER Series is optimized to meet the needs of technology innovators and engineering professionals looking for a powerful, accessible, and reliable way to improve product development, shorten time-to-market, and reduce development costs.

 **ACCURACY**
UP TO 0.030 mm

 **PROVEN AND TRUSTED SOLUTION**
+ 5,000

 **PATENTED TECHNOLOGY**

 **WORLDWIDE SUPPORT**



- 1 Quality optics**
Reliable and maximized scan quality
- 2 Extra single laser line**
Easy capture of hard-to-reach areas
- 3 Blue laser technology**
Difficult surface capability
- 4 Stand-off distance color indicator**
Maximizes scanning performance
- 5 Multifunctional buttons**
Easy user-computer interaction
- 6 Ergonomics & design**
Light and well-balanced weight for great user experience

ACCURACY



The HandySCAN 3D | SILVER Series delivers accurate and reliable 3D measurements regardless of the measurement setup quality and the user's experience level. Featuring dynamic referencing, both the scanner and part can move freely during scanning, and an accurate and high quality scan can still be obtained.

- Accuracy**
Up to 0.030 mm
- Volumetric accuracy**
0.020 ± 0.060 mm/m
- High repeatability and traceable certificate**
- High level of detail**

PROVEN & TRUSTED TECHNOLOGY



Offering the best value for money, the HandySCAN 3D | SILVER Series represents a smart purchase because of its fair price and high-quality performance. Designed and manufactured in North America and with more than 5,000 users already, this proven and trusted technology demonstrates Creafom's prioritization of attentive service and reliability.

- Best price / performance option**
- Designed and manufactured in North America**
- More than 5,000 users worldwide**
- Supported by a global team of engineers and technicians**

PORTABILITY



Using triangulation on optical reflectors to determine its relative position to the part, this handheld 3D scanner is a stand-alone device that does not require a tripod or any external tracking device to operate. Compact enough to fit into a small suitcase, it can be brought anywhere and used in any environmental conditions without its performance being affected.

- Lightweight and small**
0.85 kg
Fits into a suitcase
- Self-positioning with dynamic referencing**
- On-the-go scanning**
Use it in-house or on site
- Quick set-up**
Up and running in less than 2 minutes

SIMPLICITY & VERSATILITY



With its user-friendly interface and ergonomic design, this 3D measurement solution is easy to use and has a short learning curve regardless of the user's experience or expertise level. Its versatility enables users to scan various objects no matter the part size, complexity, material, or color—all with the same device.

- Plug and play**
- Simple user interface and real-time visualization**
- Masters complex and difficult surfaces**
- One device for all shapes and sizes**

TECHNICAL SPECIFICATIONS

Innovating technology that provides accuracy, simplicity, portability as well as real speed to your applications.

	HandySCAN 307™	HandySCAN 307™ Elite	HandySCAN 700™ Elite
ACCURACY ⁽¹⁾	Up to 0.040 mm		Up to 0.030 mm
VOLUMETRIC ACCURACY ⁽²⁾ (based on part size)	0.020 mm + 0.100 mm/m		0.020 mm + 0.060 mm/m
VOLUMETRIC ACCURACY WITH MaxSHOT Next™ Elite ⁽³⁾	0.020 mm + 0.015 mm/m		
MEASUREMENT RESOLUTION	0.100 mm	0.050 mm	
MESH RESOLUTION	0.200 mm		
MEASUREMENT RATE	480,000 measurements/s		
LIGHT SOURCE	7 red laser crosses	7 blue laser crosses	7 blue laser crosses (+ 1 extra line)
LASER CLASS	2M (eye safe)		
SCANNING AREA	275 x 250 mm		
STAND-OFF DISTANCE	300 mm		
DEPTH OF FIELD	250 mm		
PART SIZE RANGE (recommended)	0.1–4 m		
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, PowerINSPECT)		
WEIGHT	0.85 kg		
DIMENSIONS (LxWxH)	77 x 122 x 294 mm		
CONNECTION STANDARD	1 X USB 3.0		
OPERATING TEMPERATURE RANGE	5–40°C		
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) Typical value for diameter measurement on a calibrated sphere artefact.

(2) Value for spheres spacing measurement on a calibrated length artefact. Results are obtained using integrated photogrammetry with volumetric accuracy optimization.

(3) The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default accuracy for a given model.

(4) Also compatible with all major metrology, CAD, and computer graphic software through mesh and point cloud import.



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