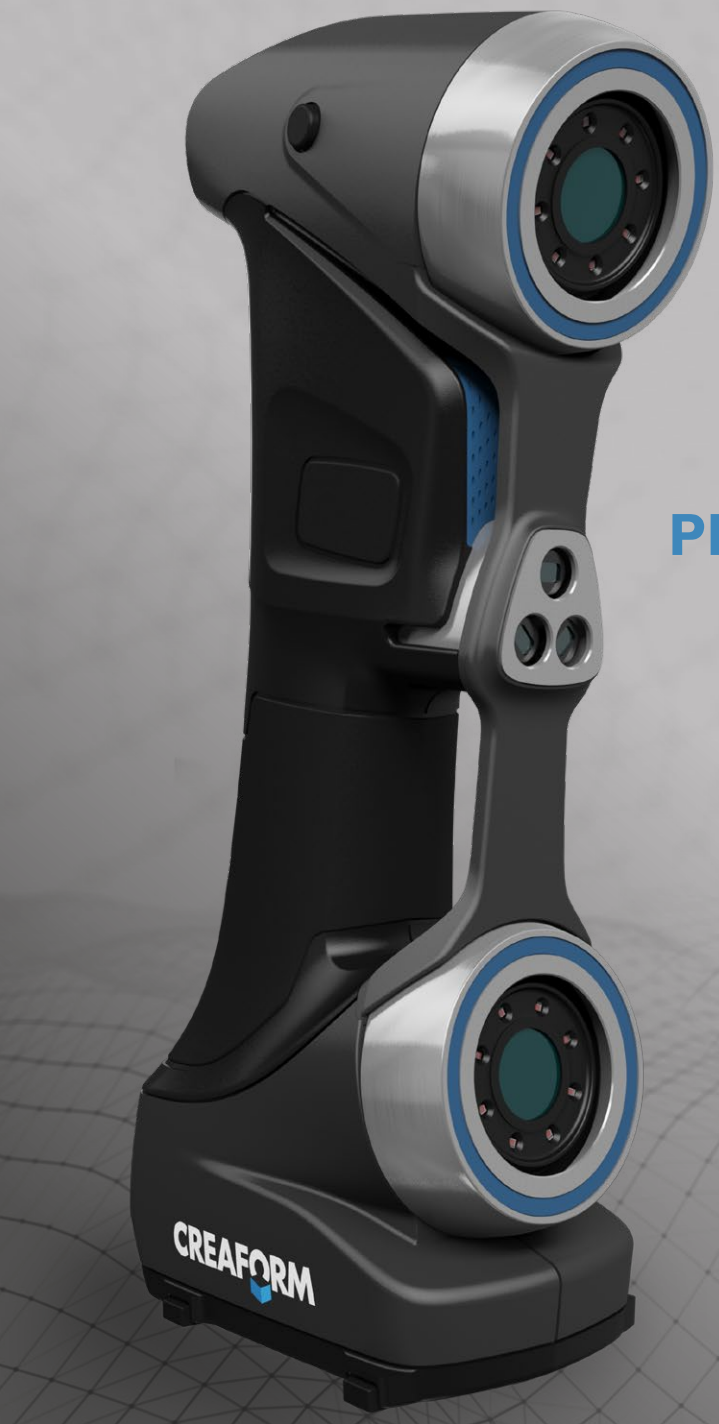
METROLOGY
SOLUTIONS



HandySCAN3D™

SILVER Series

PROVEN AND TRUSTED PROFESSIONAL 3D SCANNERS AT AN ACCESSIBLE PRICE

WATCH PRODUCT VIDEO

CREAFORM

AMETEK®
ULTRA PRECISION TECHNOLOGIES

ASK OUR EXPERT

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 (0.0012 in)

PROVEN AND TRUSTED SOLUTION

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 7 lasers crosses
Quick capture of the entire field of view

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 (0.0012 in)

Volumetric accuracy
0.020 ± 0.060 mm/m (0.0008 in ± 0.0007 in/ft)

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 Creaform'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 (1.9 lb)
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

ASK OUR EXPERT

TECHNICAL SPECIFICATIONS

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

	HandySCAN 307™	HandySCAN 700™
ACCURACY (1)	Up to 0.040 mm (0.0016 in)	Up to 0.030 mm (0.0012 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)
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)	0.050 mm (0.0019 in)
MESH RESOLUTION	0.200 mm (0.0078 in)	
MEASUREMENT RATE	480,000 measurements/s	
LIGHT SOURCE	7 red laser crosses	7 red laser crosses (+ 1 extra line)
LASER CLASS	2M (eye safe)	
SCANNING AREA	275 x 250 mm (10.8 x 9.8 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)	
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 (1.9 lb)	
DIMENSIONS (LxWxH)	77 x 122 x 294 mm (3.0 x 4.8 x 11.6 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) 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.

CREAFORM

AMETEK® ULTRA PRECISION TECHNOLOGIES

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