



# HandySCAN3D™

SILVER Series

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



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# 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 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 Ergonomic & 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 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

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 700™
<b>ACCURACY</b> <sup>(1)</sup>	Up to 0.040 mm	Up to 0.030 mm
<b>VOLUMETRIC ACCURACY</b> <sup>(2)</sup> (based on part size)	0.020 mm + 0.100 mm/m	0.020 mm + 0.060 mm/m
<b>VOLUMETRIC ACCURACY WITH MaxSHOT Next™ Elite</b> <sup>(3)</sup>	0.020 mm + 0.015 mm/m	
<b>MEASUREMENT RESOLUTION</b>	0.100 mm	0.050 mm
<b>MESH RESOLUTION</b>	0.200 mm	
<b>MEASUREMENT RATE</b>	480,000 measurements/s	
<b>LIGHT SOURCE</b>	7 red laser crosses	7 red laser crosses (+ 1 extra line)
<b>LASER CLASS</b>	2M (eye safe)	
<b>SCANNING AREA</b>	275 x 250 mm	
<b>STAND-OFF DISTANCE</b>	300 mm	
<b>DEPTH OF FIELD</b>	250 mm	
<b>PART SIZE RANGE</b> (recommended)	0.1–4 m	
<b>SOFTWARE</b>	VXelements	
<b>OUTPUT FORMATS</b>	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf	
<b>COMPATIBLE SOFTWARE</b> <sup>(4)</sup>	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)	
<b>WEIGHT</b>	0.85 kg	
<b>DIMENSIONS</b> (LxWxH)	77 x 122 x 294 mm	
<b>CONNECTION STANDARD</b>	1 X USB 3.0	
<b>OPERATING TEMPERATURE RANGE</b>	5–40 °C	
<b>OPERATING HUMIDITY RANGE</b> (non-condensing)	10–90%	
<b>CERTIFICATIONS</b>	EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE	
<b>PATENTS</b>	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.

(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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