NEW

HandySCAN3D™

THE TRULY PORTABLE METROLOGY-RATE 3D SCANNERS

reddot award 2019 winner

CREAFORM

GoEngineer
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.

- **Accurancy of 0.025 mm (0.0009 in)**
- **Scan-to-mesh in seconds**
- **Certified ISO 17025**
- **Patented technology**
- **Worldwide support**
- **Large scanning area**

**Features:**

1. 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

5. 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.

**Plug and play**
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.

<table>
<thead>
<tr>
<th></th>
<th>HandySCAN 307™</th>
<th>HandySCAN BLACK™</th>
<th>HandySCAN BLACK™ Elite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACCURACY</strong></td>
<td>Up to 0.040 mm (0.0016 in)</td>
<td>0.035 mm (0.0014 in)</td>
<td>0.025 mm (0.0009 in)</td>
</tr>
<tr>
<td><strong>VOLUMETRIC ACCURACY</strong>&lt;sup&gt;(1)&lt;/sup&gt; (based on part size)</td>
<td>0.020 mm + 0.100 mm/m (0.0008 in + 0.0012 in/ft)</td>
<td>0.020 mm + 0.060 mm/m (0.0008 in + 0.0007 in/ft)</td>
<td>0.020 mm + 0.040 mm/m (0.0008 in + 0.0005 in/ft)</td>
</tr>
<tr>
<td><strong>VOLUMETRIC ACCURACY WITH MaxSHOT Next™ Elite</strong>&lt;sup&gt;(2)&lt;/sup&gt;</td>
<td>0.020 mm + 0.015 mm/m (0.0008 in + 0.00015 in/ft)</td>
<td></td>
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</tr>
<tr>
<td><strong>MEASUREMENT RESOLUTION</strong></td>
<td>0.100 mm (0.0039 in)</td>
<td>0.025 mm (0.0009 in)</td>
<td></td>
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<tr>
<td><strong>MESH RESOLUTION</strong></td>
<td>0.200 mm (0.0078 in)</td>
<td>0.100 mm (0.0039 in)</td>
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<tr>
<td><strong>MEASUREMENT RATE</strong></td>
<td>480,000 measurements/s</td>
<td>800,000 measurements/s</td>
<td>1,300,000 measurements/s</td>
</tr>
<tr>
<td><strong>LIGHT SOURCE</strong></td>
<td>7 red laser crosses</td>
<td>7 blue laser crosses</td>
<td>11 blue laser crosses (+ 1 extra line)</td>
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<tr>
<td><strong>LASER CLASS</strong></td>
<td>2M (eye safe)</td>
<td></td>
<td></td>
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<tr>
<td><strong>SCANNING AREA</strong></td>
<td>275 x 250 mm (10.8 x 9.8 in)</td>
<td>310 x 350 mm (12.2 x 13.8 in)</td>
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<tr>
<td><strong>STAND-OFF DISTANCE</strong></td>
<td>300 mm (11.8 in)</td>
<td>250 mm (9.8 in)</td>
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<tr>
<td><strong>PART SIZE RANGE</strong> (recommended)</td>
<td>0.1–4 m (0.3–13 ft)</td>
<td>0.05–4 m (0.15–13 ft)</td>
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<tr>
<td><strong>SOFTWARE</strong></td>
<td>VXelements</td>
<td></td>
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<tr>
<td><strong>OUTPUT FORMATS</strong></td>
<td>.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf</td>
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<tr>
<td><strong>COMPATIBLE SOFTWARE</strong></td>
<td>3D Systems (Geomagic® Solutions), InnovMetric Software (PolyWorks), Dassault (CATIA V5 and SOLIDWORKS), PTC (Creo), Siemens (NX and Solid Edge), Autodesk (Inventor, Alias, 3ds Max, Maya, Softimage)</td>
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<tr>
<td><strong>WEIGHT</strong></td>
<td>0.85 kg (1.9 lb)</td>
<td>0.94 kg (2.1 lb)</td>
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<tr>
<td><strong>DIMENSIONS</strong> (LxWxH)</td>
<td>77 x 122 x 294 mm (3.0 x 4.8 x 11.6 in)</td>
<td>79 x 142 x 288 mm (3.1 x 5.6 x 11.3 in)</td>
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<tr>
<td><strong>CONNECTION STANDARD</strong></td>
<td>1 X USB 3.0</td>
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<tr>
<td><strong>OPERATING TEMPERATURE RANGE</strong></td>
<td>5–40°C (41–104°F)</td>
<td>10–90%</td>
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<tr>
<td><strong>OPERATING HUMIDITY RANGE</strong> (non-condensing)</td>
<td></td>
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<tr>
<td><strong>CERTIFICATIONS</strong></td>
<td>EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE</td>
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</tbody>
</table>

(1) HandySCAN BLACK and HandySCAN BLACK Elite (ISO 17025 accredited); Based on VDI/VDE 2634 part 3 standard. Probing error performance is assessed with diameter measurements on traceable sphere artefacts.

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**FOR MORE INFORMATION:**

Cameron Bevan  
801.949.2599  
cbevan@goengineer.com

www.goengineer.com

800.688.3234