

# Go!SCAN 3D

## Technical Specifications

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

### Go!SCAN SPARK<sup>™</sup>

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| <b>Accuracy<sup>(1)</sup></b>  | Up to 0.050 mm<br>(0.0020 in)  |
| <b>Volumetric accuracy<sup>(2)</sup></b><br>(based on part size)               | 0.050 mm + 0.150 mm/m<br>(0.0020 in + 0.0018 in/ft)  |
| <b>Volumetric accuracy with MaxSHOT Next<sup>™</sup>   Elite<sup>(3)</sup></b> | 0.050 mm + 0.015 mm/m<br>(0.0020 in + 0.00018 in/ft)   |
| <b>Measurement resolution</b>  | 0.100 mm<br>(0.0039 in)  |
| <b>Mesh resolution</b>   | 0.200 mm<br>(0.0078 in)  |
| <b>Measurement rate</b>  | 1,500,000 measurements/s   |
| <b>Light source</b>  | White light (99 stripes)   |
| <b>Positioning methods</b>   | Geometry and/or color and/or targets   |
| <b>Scanning area</b>   | 390 x 390 mm<br>(15.4 x 15.4 in)   |
| <b>Stand-off distance</b>  | 400 mm<br>(15.7 in)  |
| <b>Depth of field</b>  | 450 mm<br>(17.7 in)  |
| <b>Part size range (recommended)</b>   | 0.1–4 m<br>(0.3–13 ft)   |
| <b>Texture resolution</b>  | 50 to 200 DPI  |
| <b>Texture colors</b>  | 24 bits  |
| <b>Software</b>  | VXelements   |
| <b>Output formats</b>  | .dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf   |
| <b>Compatible software <sup>(4)</sup></b>                                      | 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>  | 1.25 kg<br>(2.7 lb)  |

**Go!SCAN SPARK™**

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|---|--|
| <b>Dimensions</b><br>(LxWxH)                        | 89 x 114 x 346 mm<br>(3.5 x 4.5 x 13.6 in)   |
| <b>Connection standard</b>                          | 1 X USB 3.0  |
| <b>Operating temperature range</b>                  | 5-40 °C<br>(41-104 °F)   |
| <b>Operating humidity range</b><br>(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, EP (FR, UK, DE) 1,877,726, AU 2006222458, US 8,032,327, JP 4,871,352, EP (FR, UK, DE) 2,278,271, IN 266,573, US 7,487,063, CA 2,529,044, CA 2,810,587, US 8,836,766, JP 5,635,218, CA 2,875,754, EP (FR, UK, DE) 2,751,521, US 9,325,974, CA 2,835,306, CN 201280023545.3, CN 201280049264.5, JP 6,025,830, EP (FR, UK, DE) 2,875,314, CN ZL 201380029999.6, JP 6,267,700, EP (FR, UK, DE) 3,102,908, US 15/114,563, CN 201580007340X |

<sup>(1)</sup> Typical value for diameter measurement on a calibrated sphere artefact.

<sup>(2)</sup> Performance assessed with traceable length artefacts using positioning targets. Objects with sufficient geometry/color texture can enable this level of performance without positioning targets. Results are obtained using integrated photogrammetry with volumetric accuracy optimization.

<sup>(3)</sup> The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default accuracy.

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