TECHNICAL SPECIFICATIONS

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

	HandySCAN 307™	HandySCAN BLACK™	HandySCAN BLACK™|Elite
ACCURACY (1)	Up to 0.040 mm	0.035 mm	0.025 mm
VOLUMETRIC ACCURACY (2) (based on part size)	0.020 mm + 0.100 mm/m	0.020 mm + 0.060 mm/m	0.020 mm + 0.040 mm/m
VOLUMETRIC ACCURACY WITH MaxSHOT Next™|Elite (3)	0.020 mm + 0.015 mm/m		
MEASUREMENT RESOLUTION	0.100 mm	0.025 mm	
MESH RESOLUTION	0.200 mm	0.100 mm	
MEASUREMENT RATE	480,000 measurements/s	800,000 measurements/s	1,300,000 measurements/s
LIGHT SOURCE	7 red laser crosses	7 blue laser crosses	11 blue laser crosses (+ 1 extra line)
LASER CLASS	2M (eye safe)		
SCANNING AREA	275 x 250 mm	310 x 350 mm	
STAND-OFF DISTANCE	300 mm		
DEPTH OF FIELD	250 mm		
PART SIZE RANGE (recommended)	0.1–4 m	0.05–4 m	
SOFTWARE	VXelements		
OUTPUT FORMATS	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf		
COMPATIBLE SOFTWARE	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)		
WEIGHT	0.85 kg	0.94 kg	
DIMENSIONS (LxWxH)	77 x 122 x 294 mm	79 x 142 x 288 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) 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.
HandySCAN 307: Typical value for diameter measurement on a calibrated sphere artefact.

(2) HandySCAN BLACK and HandySCAN BLACK|Elite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Sphere-spacing error is assessed with traceable length artefacts by measuring these at different locations and orientations within the working volume.
HandySCAN 307: 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 volumetric accuracy of the chosen system and model.

CREAFORM

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