

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™IElite
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™IElite ⁽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 BLACKIElite (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 BLACKIElite (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.



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