TECHNICAL SPECIFICATIONS

Innovating technology that provides accuracy, simplicity, portability as well as real speed to your metrology-grade applications.

		MetraSCAN 357™	MetraSCAN BLACK™	MetraSCAN BLACK™ Elite
ACCURACY ⁽¹⁾		Up to 0.040 mm	0.035 mm	0.025 mm
VOLUMETRIC ACCURACY ⁽²⁾	9.1 m³	0.086 mm	0.086 mm	0.064 mm
	16.6 m³	0.122 mm	0.122 mm	0.078 mm
VOLUMETRIC ACCURACY WITH MaxSHOT Next™ Elite ⁽³⁾		0.060 mm + 0.015 mm/m		0.044 mm + 0.015 mm/m
PROBING ACCURACY WITH HandyPROBE Next (4)		Up to 0.030 mm	0.030 mm	0.025 mm
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	1,800,000 measurements/s
LIGHT SOURCE		7 red laser crosses	7 blue laser crosses	15 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		200 mm	250 mm	
PART SIZE RANGE (recommended)		0.2-6 m		
SOFTWARE		VXelements		
OUTPUT FORMATS		.dae, .fbx, .ma, .obj, .stl, .txt, .wrl, .x3d, .zpr, .3mf		
COMPATIBLE SOFTWARE (5)		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)		
WEIGHT		Scanner: 1.38 kg Probe: 0.5 kg C-Track: 5.7 kg	Scanner: 1.49 kg Probe: 0.5 kg C-Track: 5.7 kg	
DIMENSIONS (LxWxH)		Scanner: 289 x 235 x 296 mm Probe: 68 x 157 x 340 mm C-Track: 1031 x 181 x 148 mm		
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		FR 2,838,198, EP (FR, UK, DE, IT) 1,492,995, US 7,487,063, CA 2,529,044		

- (1) MetraSCAN BLACK and MetraSCAN BLACK|Elite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Probing error performance is assessed with diameter measurement on traceable sphere artefacts.

 MetraSCAN 357: Typical value for diameter measurement on a calibrated sphere artefact.
- (2) MetraSCAN BLACK and MetraSCAN 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.

 MetraSCAN 357: Value for sphere spacing measurement on calibrated length artefacts.
- (3) The volumetric accuracy performance of the system when using a MaxSHOT 3D cannot be superior to the default volumetric accuracy performance for a given model.
- (4) HandyPROBE Next and HandyPROBE Next | Elite performance assessment (ISO 17025 accredited) is based on partial procedure per ISO 10360-12 standard: Probing size error (6.2) and Length error (6.4). Performance is assessed on traceable sphere and length artefacts.
- (5) Also compatible with all major metrology, CAD, and computer graphic software through mesh and point cloud import.

CREAFORM

AMETEK Singapore PTE Ltd. Division Creaform

20 Changi Business Park Central 2 #04-03 Singapore 486031 T.: +65 6484 2388 | F.: +65 6481 6588

AMETEK Thailand Division Creaform

89/45, Moo 15, Bangna-Trad Rd Bangplee, Samutprakarn 10540, Thailand T.: +662 012 7500



Authorized Distributor

PROFESSIONAL CAD SYSTEMS LTD

PO Box 15663, Dinsdale, Hamilton 3243
Ph: +64 7 848 2005 | Email: sales@procadsys.co.nz