RAPID3D™ TECHNOLOGY SOLUTIONS

# TECHNICAL SPECIFICATIONS

## HANDYSCAN BLACK ELITE LIMITED EDITION

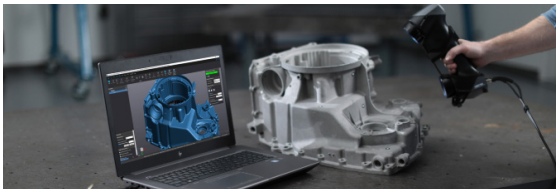
**THE CREAFORM HANDYSCAN BLACK ELITE LIMITED EDITION OFFERS BETTER ACCURACY THAN EVER BEFORE. OPTIMIZED MANUFACTURING AND CALIBRATION PROCESSES ENABLE A NEW INDUSTRY STANDARD FOR HANDHELD DEVICES.**

- ISO 17025 accredited calibration based on VDI/VDE 2634 part 3 standard
- Metrology Grade
- 0.012 mm (0.0005”)
- 0.012 mm + 0.020 mm/m (0.0005” + 0.0002”/ft)

2023 STRATEGIC PARTNER

CREAFORM

AMETEK



| Creaform HandySCAN Black Elite Limited | |
|---|---|
| **Accuracy** | Up to 0.012 mm (0.0005 in.) |
| **Volumetric Accuracy** | 0.012 mm + 0.020 mm/m (0.0005 in + 0.0002 in/ft) |
| **Measurement Resolution** | Up to 0.025 mm (0.0009 in.) |
| **Mesh Resolution** | 0.100 mm (0.0039 in) |
| **Scanning Area** | 310 x 350 mm (12.2 x 13.8 in) |
| **Stand Off Distance** | 300 mm (11.8 in.) |
| **Depth of Field** | 250 mm (9.8 in.) |
| **Light Source** | 11 laser crosses (+ 1 extra line) |
| **Laser Class** | 2M (eye-safe) |
| **Measurement Rate** | 1,300,000 measurements/s |
| **Part size range (recommended)** | 0.05–4 m (0.15–13 ft) |
| **Weight** | 0.94 kg (2.1 lb) |
| **Dimenstions (LxWxH)** | 142 x 79 x 288 mm (5.6 x 3.1 x 11.3 in) |
| **Certifications** | EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE |
| **Software Included** | VXelements |
| **Operating Temperature Range** | 5–40°C (41–104°F) |
| **Operating Temperature Range (non-condensing)** | 10–90% |
| **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) |
| **Output Formats** | .dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr |

*Based on the ISO 10360 standard, volumetric accuracy is defined as a size-dependent value.