

Metrology-Grade 3D Scanner Optimized for Efficiency

HandySCAN 3D

EVO Series



Part of the HandySCAN 3D™ line-up, the industry standard in portable metrology-grade 3D scanners, the HandySCAN 3D EVO Series™ features a powerful embedded graphical user interface (GUI) that enhances user experience and efficiency while delivering Creaform's flagship metrology-grade qualities: proven reliability, renowned portability, and unmatched accredited accuracy.

By integrating augmented reality (AR) capability and a photo camera, the EVO Series further streamlines and enhances the inspection process—enabling QA and QC professionals to document part assessments better and faster, and execute workflows with greater efficiency.

The HandySCAN 3D EVO Series also offers wireless capability and a robust 3D metrology software platform—providing a fully integrated solution, redefining ease of use, and empowering new users to quickly master the technology, all while also meeting the needs of the most advanced users.



reddot winner 2026

Wireless capability & live 3D visualization

Optimized use in hard-to-reach environments

Future-ready technology

Ongoing evolution via Creaform.OS updates

Made in North America

Worldwide customer support



Technical Specifications

HandySCAN EVO™		HandySCAN EVO Plus™		HandySCAN EVO Elite™	
ACCURACY		0.025 mm		0.020 mm 0.015 mm ⁽¹⁾	
VOLUMETRIC ACCURACY (based on part size)		0.020 mm + 0.040 mm/m	0.020 mm + 0.040 mm/m 0.020 mm + 0.015 mm/m ⁽²⁾		0.020 mm + 0.020 mm/m 0.020 mm + 0.015 mm/m ⁽²⁾ 0.020 mm + 0.015 mm/m ⁽¹⁾⁽²⁾
FORM ERROR (SPHERE)		N/A		0.030 mm	
FORM ERROR (FLAT)		N/A		0.050 mm	
ACCEPTANCE TEST ⁽³⁾		Based on VDI/VDE 2634 part 3		Based on ISO 10360	
MEASUREMENT CAPABILITIES (at a working distance of 0.3 m)	 Pin	0.750 mm			
	 Hole	1.250 mm			
	 Step	0.025 mm			
	 Wall	0.500 mm			
MEASUREMENT RESOLUTION		0.025 mm			
MESH RESOLUTION		0.100 mm			
MEASUREMENT RATE		1,300,000 measurements/s	1,800,000 measurements/s		2,800,000 measurements/s
LIGHT SOURCE ⁽⁴⁾		22 blue laser lines (+1 extra line)	30 blue laser lines (+1 extra line)		46 blue laser lines (+1 extra line) + laser pointer
SCANNER CONTROLS		4.3" touchscreen display and physical buttons			
PHOTO CAMERA		N/A	12 MP, AR-enabled		
REAL-TIME CALIBRATION		Included			
AUTOMATIC ALIGNMENT & CLEAN-UP		Included			
ADVANCED SOFTWARE FEATURES		N/A		Included ⁽⁵⁾	
WORKING DISTANCE		200 to 450 mm	200 to 750 mm		
DEPTH OF FIELD		250 mm	550 mm		
PART SIZE RANGE (recommended)		0.05-4 m			
SOFTWARE		Creaform.OS			
OUTPUT FORMATS		.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf			
COMPATIBLE SOFTWARE ⁽⁶⁾		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		1.02 kg	1.04 kg		
DIMENSIONS (LxWxH)		86 x 121 x 285 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		US 7,912,673, EP (FR, UK, DE) 3,102,908, US 10,271,039, JP 6,596,433, CA 2,938,104, KR 10-2424135, CA 3,223,372, EM 015118552-0002, US 12,513,407			

(1) Performance obtained with Limited Edition. Limited Edition is able to deliver improved accuracy through optimized manufacturing and calibration processes.

(2) Performance obtained with scale bars included in the Accu+ Kit.

(3) Performance tests done in Creaform's ISO/IEC 17025 accredited calibration laboratories.

(4) Laser class: 2M (eye safe)

(5) Includes AR colormap visualization with real-time deviation display, QR code reading, and laser-activated clipping plane functionality.

(6) Also compatible with all major metrology, CAD, and computer graphic software through mesh and point cloud import.

For an unparalleled experience connect with us at the nearest office located in India or UAE.

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