

The Reference in Portable Metrology-grade 3D Scanners

# HandySCAN 3D

BLACK Series



TecSol3D



The HandySCAN 3D™ lineup is the industry standard in portable metrology-grade 3D scanners, and a proven and trusted patented technology. Optimized to meet the needs of design, manufacturing and metrology professionals, the BLACK Series provides the most effective and reliable way to acquire accurate 3D measurements of physical objects anywhere.

Portable, accurate and simple to use, the HandySCAN 3D | BLACK Series features unmatched speed that captures high-quality measurements. Since it performs regardless of environment changes or part movement, it represents the ideal tool for quality assurance and product development applications.



**Reliable acceptance test**  
ISO 17025  
accredited laboratory

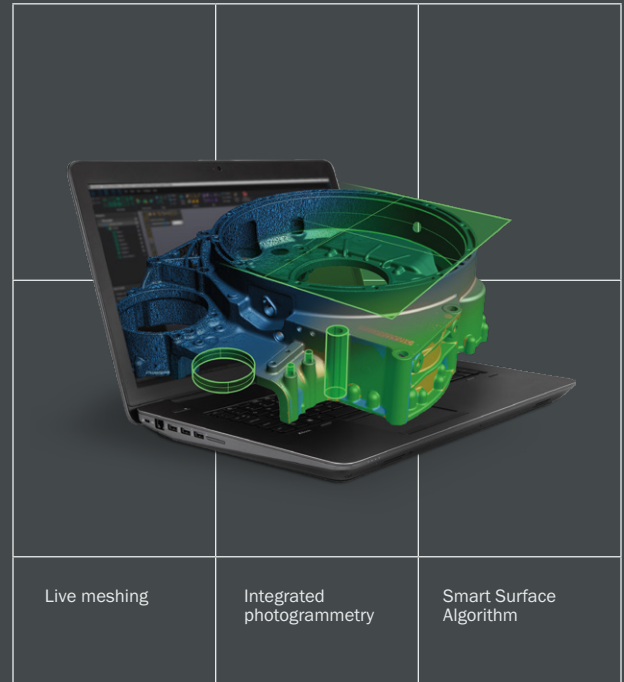
**Made in North America**  
Most trusted & widely  
used handheld  
3D scanners

**Worldwide repairs  
and customer support**

# Powerful and Intuitive Software for an Optimal User Experience





VXelements is a powerful integrated 3D software platform that works in complete synergy with the entire fleet of Creaform's 3D measuring devices. With VXelements, both 3D data acquisition as well as post-treatment and analyses occur in the same intuitive interface to guarantee an optimal user experience, seamless interaction with the device, and the shortest time to a usable mesh, 3D model, or inspection report.

Acquisition modules are included with every measurement device from Creaform. They provide real-time visualization and produce better data quality from 3D measurements, making the results user-independent and maximizing device performance. Application modules are available as add-ons to process and optimize 3D scan data for diverse applications, including creating digital twins, product development, reverse engineering, inspections, and dynamic tracking.



Live meshing	Integrated photogrammetry	Smart Surface Algorithm
--------------	---------------------------	-------------------------

## Technical Specifications

	HandySCAN BLACK™   Elite	HandySCAN BLACK+™   Elite
ACCURACY	0.025 mm (0.0009 in)	0.025 mm (0.0009 in) 0.012 mm (0.0005 in) <sup>(1)</sup>
VOLUMETRIC ACCURACY (based on part size)	0.020 mm + 0.040 mm/m (0.0008 in + 0.0005 in/ft)	0.020 mm + 0.040 mm/m (0.0008 in + 0.0005 in/ft) 0.020 mm + 0.015 mm/m (0.0008 in + 0.00018 in/ft) <sup>(2)</sup> 0.012 mm + 0.015 mm/m (0.0005 in + 0.00018 in/ft) <sup>(1)</sup>
ACCEPTANCE TEST <sup>(3)</sup>	Based on VDI/VDE 2634 part 3	Based on VDI/VDE 2634 part 3 & ISO 10360
MEASUREMENT CAPABILITIES (at a working distance of 0.3 m (1 ft))		
 Pin	0.750 mm (0.0295 in)	
 Hole	1.250 mm (0.0492 in)	
 Step	0.025 mm (0.0009 in)	
 Wall	0.500 mm (0.0197 in)	
LIGHT SOURCE <sup>(4)</sup>	22 blue laser lines (+ 1 extra line)	30 blue laser lines (+ 1 extra line)
WORKING DISTANCE	200 to 450 mm (7.9 x 17.7 in)	200 to 750 mm (7.9 x 29.5 in)
PART SIZE RANGE (recommended)	0.05–4 m (0.15–13.1 ft)	
WEIGHT	0.94 kg (2.1 lb)	

(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).



Tecnologías y Soluciones Tridimensionales SA de CV  
 email [informacion@tecsol3d.com](mailto:informacion@tecsol3d.com)  
 wsap 81 8332 2125  
[www.tecsol3d.com](http://www.tecsol3d.com)



HandySCAN 3D, HandySCAN 3D|BLACK, HandySCAN BLACK|Elite, HandySCAN BLACK+|Elite, HandySCAN BLACK+|Elite Limited, VXelements are trademarks of Creaform Inc. © Creaform Inc. 2024. All rights reserved. V1