

MaxSHOT3D ™

YOUR BEST SHOT
AT LARGE-SCALE
METROLOGY
PROJECTS



reddot design award
winner 2017

OPTICAL COORDINATE MEASURING SYSTEM

Creaform's MaxSHOT 3D™ is a game changer for product development, manufacturing, quality control and inspection teams that need the highest measurement accuracy and repeatability for large-scale projects and parts from 2 to 10 m. Imagine achieving accuracy better than 0.015mm/m. Gain peace of mind knowing that your measurements are always right on the dot.

What's more, thanks to sophisticated, proven user guidance technology and easy-to-use software, users of all levels—even non-metrology experts—can use the MaxSHOT 3D. Contrary to traditional photogrammetry, the MaxSHOT 3D features automatic feedback before measurement. Never take a bad image again!

If you consistently work on large-scale projects, the MaxSHOT Next™ and Next™|Elite are your go-to solutions to slash budget-busting measurement mistakes, improve product quality, increase process efficiency, and minimize overall operating costs.

Intuitive controls and operations for ultra-short training and learning curves

Multi-function buttons for easy interaction with VXelements software



40% more accurate

Metrology-grade volumetric accuracy of 0.015 mm/m

Laser projected frame with GO/NO-GO feedback on measurement pictures

Highly comfortable, ergonomic design developed specifically for photogrammetric applications



SEAMLESS INTEGRATION WITH OTHER CREAFORM TECHNOLOGIES

The MaxSHOT 3D integrates all of the following Creaform technologies for large-scale projects:



HandySCAN 3D™

The truly portable metrology-grade 3D scanner that delivers highly accurate measurements.



HandyPROBE™

The only truly accurate portable CMM with greater, extendable measurement volume.



MetraSCAN 3D™

The most accurate manual or automated 3D scanning solution, whether in a lab or on the shop floor.



WITH THE MAXSHOT 3D, ENSURE FIRST-TIME-RIGHT DATA ACQUISITION AND MEASUREMENTS

NEVER TAKE A BAD PICTURE AGAIN

The MaxSHOT 3D's laser-projected frame uses simple GO/NO-GO visual feedback to let users know if the image will be good or bad. If the image is good, a green frame will appear, indicating that it can be saved for further treatment and analysis. If it's bad, a red frame will appear, prompting users to take corrective action.

INTUITIVE SOFTWARE DIAGNOSTIC TOOLS

VXelements provides users with easy-to-understand diagnostics to guide them in carrying out the appropriate corrective actions before taking pictures.



OPTICAL PROBING ACCESSORIES

Use your MaxSHOT 3D as an optical probing device and get direct 3D measurements for various types of features: hole location, edge location, surface points, etc.



TECHNICAL SPECIFICATIONS

MaxSHOT3D™

		MaxSHOT Next™	MaxSHOT Next™ Elite
VOLUMETRIC ACCURACY ⁽¹⁾		0.025 mm/m (0.0003 in/ft)	0.015 mm/m (0.00018 in/ft)
AVERAGE DEVIATION ⁽²⁾		0.008 mm/m (0.0001 in/ft)	0.005 mm/m (0.00006 in/ft)
VOLUMETRIC ACCURACY <small>(when combined with)</small>	HandySCAN BLACK™ HandySCAN BLACK™ Elite	0.020 mm + 0.025 mm/m (0.0008 in + 0.0003 in/ft)	0.020 mm + 0.015 mm/m (0.0008 in + 0.00018 in/ft)
	HandyPROBE Next™ ⁽³⁾	0.060 mm + 0.025 mm/m (0.0024 in + 0.0003 in/ft)	0.060 mm + 0.015 mm/m (0.0024 in + 0.00018 in/ft)
	HandyPROBE Next™ Elite ⁽³⁾	0.044 mm + 0.025 mm/m (0.0017 in + 0.0003 in/ft)	0.044 mm + 0.015 mm/m (0.0017 in + 0.00018 in/ft)
	MetraSCAN 350™ ⁽³⁾ MetraSCAN 750™ ⁽³⁾	0.060 mm + 0.025 mm/m (0.0024 in + 0.0003 in/ft)	0.060 mm + 0.015 mm/m (0.0024 in + 0.00018 in/ft)
	MetraSCAN 350™ Elite ⁽³⁾ MetraSCAN 750™ Elite ⁽³⁾	0.044 mm + 0.025 mm/m (0.0017 in + 0.0003 in/ft)	0.044 mm + 0.015 mm/m (0.0017 in + 0.00018 in/ft)
WEIGHT		0.79 kg (1.75 lb)	
DIMENSIONS		104 x 180 x 115 mm (4.1 x 7.1 x 4.5 in)	
OPERATING TEMPERATURE RANGE		5-40°C (41-104°F)	
OPERATING HUMIDITY RANGE <small>(non-condensing)</small>		10-90%	
CERTIFICATIONS		EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), IP50, WEEE, Laser class (2M)	

(1) Based on the VDI/VDE 2634 part 1 standard. Performance is assessed with 35 lengths measurements taken on traceable artefacts (value = maximum deviation).

(2) Based on the VDI/VDE 2634 part 1 standard. Performance is assessed with 35 lengths measurements taken on traceable artefacts (value = average deviation).

(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.



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