

METROLOGY  
SOLUTIONS

# MAX SHOT-3D™

YOUR BEST SHOT  
AT LARGE-SCALE  
METROLOGY  
PROJECTS



red dot design award  
winner 2017

**CREAFORM**

**AMETEK®**  
ULTRA PRECISION TECHNOLOGIES

# 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



CREAFORM

• 40% more accurate  
• Metrology-grade volumetric accuracy of **0.015 mm/m**

Highly comfortable, ergonomic design developed specifically for photogrammetric applications

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





## 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

MAX SHOT 3D		MaxSHOT Next™	MaxSHOT Next™ Elite
VOLUMETRIC ACCURACY <sup>(1)</sup>		0.025 mm/m	0.015 mm/m
AVERAGE DEVIATION <sup>(2)</sup>		0.008 mm/m	0.005 mm/m
VOLUMETRIC ACCURACY <small>(when combined with)</small>	HandySCAN 300™ HandySCAN 700™	0.020 mm + 0.025 mm/m	0.020 mm + 0.015 mm/m
	HandyPROBE Next™ <sup>(3)</sup>	0.060 mm + 0.025 mm/m	0.060 mm + 0.015 mm/m
	HandyPROBE Next™ Elite <sup>(3)</sup>	0.044 mm + 0.025 mm/m	0.044 mm + 0.015 mm/m
	MetraSCAN 350™ <sup>(3)</sup> MetraSCAN 750™ <sup>(3)</sup>	0.060 mm + 0.025 mm/m	0.060 mm + 0.015 mm/m
	MetraSCAN 350™ Elite <sup>(3)</sup> MetraSCAN 750™ Elite <sup>(3)</sup>	0.044 mm + 0.025 mm/m	0.044 mm + 0.015 mm/m
WEIGHT		0.79 kg	
DIMENSIONS		104 x 180 x 115 mm	
OPERATING TEMPERATURE RANGE		5-40°C	
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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