







Creaform's flagship scanners underwent a complete re-engineering, building on its core assets. They are now more portable and they are faster at delivering accurate and high resolution 3D scans while remaining overly simple to use. Yet, it is their true portability that has changed the rules and set a whole new trend in the 3D scanning market.

WHEN ACCURACY MEETS PORTABILITY. INTRODUCING THE HANDYSCAN 3D SCANNERS.

CREAFORM 3D SCANNERS ACCURACY. PORTABILITY. SIMPLICITY.



The easiest 3D scanning experience, generating fast and reliable measurements.





The truly portable metrology-grade 3D scanners delivering highly accurate measurements.





The most complete 3D scanning solution for metrology-grade measurements on all materials.

THE HANDYSCAN 3D SCANNERS: YOUR BEST ALLY AT ALL STAGES OF YOUR PRODUCT LIFECYCLE MANAGEMENT

Concept

Requirements and specifications



- Competitive product analysis
- Measurement of product environment or connecting/Surrounding parts
- Measurement of existing parts for aftermarket or custom equipment

Concept design



- Clay model measurement/Reverse engineering
- Models and mock-ups measurement/Reverse engineering
- Styling and aesthetics
- Integration of prototype modifications into CAD file
- Form study, proof-of-concept prototypes

> Testing, simulation and analysis

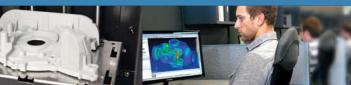
Ergonomy prototypes

CAD design



- 3D scan-to-CAD
- Reverse engineering (extracting design-intent)
- Packaging design

Prototyping



- Rapid prototyping/Manufacturing
- Integration of prototype modifications into CAD file
- Prototype inspection
- Finite element analysis (FEA)
- Interference analysis
- Deformation, geometry analysis

Manufacturing

Tooling design



- Reverse engineering of dies, molds, fixtures, jigs and patterns
- Update of CAD file to reflect as-built tooling measurements
- Tooling validation/Inspection

Assembly/Production



- Virtual assembly
- Tool/Robot path programming
- Part assessment before machining

Quality control



- First article inspection (FAI)
- Part-to-CAD inspection
- Supplier quality inspection

Documentation



- As-built documentation of parts/Tooling
- Marketing presentations, 3D training systems, serious gaming
- **Digital archiving**

Maintenance, repair and overhaul (MRO)



- Wear and tear analysis
- Custom repairs/Modification
- As-built documentation of parts/Tooling before maintenance

Replacement/Recycling



- Reverse engineering for developing replacement/Restoration parts
- Planning of complex assemblies disassembly/Dismantling

OTHER APPLICATIONS





The HandySCAN 3D scanner comes with VXelements, a fully integrated 3D software platform that powers our entire fleet of 3D scanning and measurement technologies. It gathers all the essential elements and tools into a user-friendly, simplified and sleek working environment. Its real-time visualization provides a simple, enjoyable scanning experience.

An optimized scan file is automatically created and available upon completion of the data acquisition step, which contributes to greatly shorten your part inspection or design process.

- User-friendly interface: VXelements was designed to simplify the whole scanning process to its essential core, through a powerful and simple process;
- Surface optimization algorithm: avoids the creation of multiple scan layers and ensures a more accurate mesh without any post-treatment;
- Direct mesh output: an optimized mesh can be exported in all standard formats, right as you complete acquisition. No complicated alignment or point cloud processing needed;
- No limitation to the scan resolution: you simply need to input a resolution value, independent from the size of the scanned object. Resolution can be changed at any time before/after the scan;
- Real-time visualization: the user can view the 3D surface as the object is being scanned:
- Scan results enhancement: hole filling, smart decimation, boundary filters, etc.

EXTEND THE POWER OF YOUR HANDYSCAN 3D SCANNER

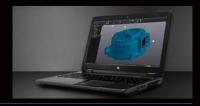
MaxSHOT 3D™: Optical coordinate measuring system

To increase data accuracy through photogrammetry, you can use a MaxSHOT 3D optical coordinate measuring system with your HandySCAN 3D scanner. Based on a series of 2D photos, the MaxSHOT 3D makes it possible to quickly and easily generate a highly accurate positioning model of your part, which contributes to significantly increase 3D scan files accuracy.



VXmodel™: Scan-to-CAD software module

VXmodel is a post-treatment software that directly integrates into VXelements and seamlessly allows to finalize 3D scan data for use directly in any CAD or 3D printing software. VXmodel provides the simplest and fastest path from 3D scans to your CAD or additive manufacturing workflow.



VXinspect™: Quality control software that takes it to the next level

VXinspect is an intuitive and powerful 3D inspection software designed for manufacturing companies conducting first article inspection (FAI) or quality control. Directly integrated into VXelements, Creaform's 3D software platform and application suite, VXinspect provides the simplest integration of probing and 3D scanning measurement capabilities.



VXremote™: Remote access software application

VXremote improves your efficiency in the field by providing fast and easy remote access to VXelements. It offers quick activation and set-up and requires no hardware or server to install or maintain. You can have all its data acquisition functionalities at your fingertips... Available only with the Creaform Certified Rugged Tablet!



ACCESSORIES

INCLUDED

- Carrying case
- Calibration plate
- Custom USB cable
- Power supply
- 2,000 positioning targets
- 1-year warranty on parts and labor

OPTIONAL

- Certified laptop computer
- 3D scanner external battery
- Rugged tablet with VXremote
- Magnetic, reusable positioning targets



CREAFORM CUSTOMER CARE

Creaform is committed to offering first-class customer service so that you can get the most out of your system.

Our multilingual team of product specialists will provide you with assistance to answer your immediate needs. Our fleet of leading-edge calibration tools in our service centers gives you local access to faster maintenance service and repair.

Be sure to subscribe to the Customer Care Program to take advantage of worry-free maintenance and global repair coverage for all of your Creaform hardware and software. Whether you need to access our latest software releases and knowledge base or require a loaner unit while your device is being serviced, we have a plan tailored to your needs. Gain peace of mind knowing your equipment will get even better with time.

CREAFORM METROLOGY AND 3D ENGINEERING SERVICES

Convinced of the quality and possibilities of the Creaform technologies, but not quite yet ready to commit and buy? Know that Creaform offers a wide range of metrology and 3D engineering services. Our experts have earned a worldwide reputation for effectiveness and professionalism. Whether you need their help to perform 3D scanning, quality control, reverse engineering, FEA/CFD simulations, product and tool development or training services, you can count on their commitment to meet your requirements with responsiveness and adaptability.





HandySCAN 300™

HandySCAN 700™

	HandySCAN 300™	HandySCAN 700'"
WEIGHT	0.85	5 kg
DIMENSIONS (LxWxH)	77 x 122 x 294 mm	
MEASUREMENT RATE	205,000 measurements/s	480,000 measurements/s
SCANNING AREA	225 x 250 mm	275 x 250 mm
LIGHT SOURCE	3 laser crosses	7 laser crosses (+1 extra line)
LASER CLASS	II (eye-safe)	
RESOLUTION	0.100 mm	0.050 mm
ACCURACY	Up to 0.040 mm	Up to 0.030 mm
VOLUMETRIC ACCURACY	0.020 mm + 0.100 mm/m	0.020 mm + 0.060 mm/m
VOLUMETRIC ACCURACY WITH MAXSHOT 3D	0.020 mm + 0.025 mm/m	
STAND-OFF DISTANCE	300 mm	
DEPTH OF FIELD	250 mm	
PART SIZE RANGE (RECOMMENDED)	0.1-4 m	
SOFTWARE	VXelements	
OUTPUT FORMATS	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr	
COMPATIBLE SOFTWARE	3D Systems (Geomagic® Solutions), InnovMetric Software (PolyWorks), Dassault Systèmes (CATIA V5 and SolidWorks), PTC (Pro/ENGINEER), Siemens (NX and Solid Edge), Autodesk (Inventor, Alias, 3ds Max, Maya, Softimage).	
CONNECTION STANDARD	1 X USB 3.0	
OPERATING TEMPERATURE RANGE	5 °C – 40 °C	
OPERATING HUMIDITY RANGE (NON-CONDENSING)	10 - 90%	
CERTIFICATIONS	EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), IP50, WEEE	



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