

# GO!D<sup>TM</sup> SCAN 3

THE FASTEST AND EASIEST  
3D SCANNING EXPERIENCE

CREAFORM  
GO!D  
SCAN 3

**CREAFORM**

**AMETEK<sup>®</sup>**  
ULTRA PRECISION TECHNOLOGIES



**Creaform presents the Go!SCAN 3D™, a simple line of portable 3D scanners enabling people from various backgrounds to effortlessly capture the 3D shape of any object, including complex, freeform and organic surfaces. These handheld 3D scanners can even capture 3D data in full color, providing very rich and detailed textures.**

**The Go!SCAN 3D scanners are very fast, delivering consistent high-quality 3D models. Through their highly intuitive process, these handheld, self-positioning systems can be used by anyone without prior experience or training. The resulting 3D models can be integrated to any computer-assisted process like archiving, restoration, analysis or content creation.**

**Their underlying technology accelerates the overall experience: no preparation or specific setup needed, larger scanning area, fast measurements and direct mesh output. It's the quickest path possible to the 3D models you need!**

**EASY. FAST. COLORFUL. INTRODUCING THE GO!SCAN 3D SCANNERS.**

**CREAFORM 3D SCANNERS  
ACCURACY. PORTABILITY. SIMPLICITY.**

**GO!  
SCAN 3D**



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

**HANDY  
SCAN 3D**



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

**METRA  
SCAN 3D**



**The most accurate scanning and probing solutions, whether in a lab or on the shop floor.**

# THE GO!SCAN 3D SCANNERS: A VERSATILE ALLY FOR YOUR MOST DIVERSE APPLICATIONS



1

## HERITAGE PRESERVATION

Archiving, restoration, 3D virtual museum

4

## COMPUTER GRAPHICS

Multimedia, 3D CG, VFX

7

## OTHERS

Forensics, insurance, fashion & clothing

2

## ARTS AND ARCHITECTURE

CAD design, modeling, sculpture

5

## VIRTUAL REALITY

Serious gaming, augmented reality

3

## EDUCATION & RESEARCH

3D teaching tools, R&D

6

## HUMAN BODY SCAN

Partial or complete 3D scan of the human body

 \* Discovered by Mr. Jean-Louis Courteau, part of the *Laboratoire et Réserve d'archéologie du Québec* Collection.



ALL OF THE CREAFORM PORTABLE 3D SCANNERS FEATURE INNOVATIVE AND EXCLUSIVE TECHNOLOGIES:

**TRUsimplicity™**  
OVERLY SIMPLE 3D SCANNING PROCESS

**TRUportability™**  
3D SCANNING WHERE YOU NEED TO GO

**TRUaccuracy™**  
ACCURATE MEASUREMENTS IN REAL LIFE OPERATING CONDITIONS

**NO RIGID SETUP REQUIRED:** BOTH THE PART AND THE SCANNER CAN BE MOVED DURING SCANNING.

**FAST:** TYPICAL OBJECTS ARE SCANNED IN 5 MINUTES OR LESS.

**PROFESSIONAL-GRADE MEASUREMENTS:** ACCURACY OF UP TO 0.1 mm AND RESOLUTION OF UP TO 0.2 mm.

**BUILT-IN INTELLIGENCE:** ENSURES THAT 3D DATA ARE HIGH-QUALITY AND ACCURATE.

**USER-FRIENDLY:** NO EXPERIENCE REQUIRED, UP-AND-RUNNING IN MINUTES.

**SCAN IN COLOR:** ALLOWS FOR SEAMLESS CAPTURE OF HIGH-QUALITY GEOMETRY AND COLORS SIMULTANEOUSLY. VISUALLY STRIKING COLOR RESULTS, WITH AN INCREDIBLE LEVEL OF DETAILS.

**REAL-TIME VISUALIZATION:** LOOK AT THE COMPUTER SCREEN TO SEE WHAT YOU ARE DOING, AND WHAT IS LEFT TO BE DONE.

**AUTOMATIC MESH OUTPUT:** READY-TO-USE FILES (GEOMETRY AND COLOR), RIGHT AS YOU COMPLETE ACQUISITION.



**QUICK WORKFLOW INTEGRATION:** USABLE SCAN FILES CAN BE IMPORTED INTO REVERSE ENGINEERING/CAD/3D PRINTING SOFTWARE WITHOUT POST-PROCESSING.

**3D PRINTING:** MAXIMIZE THE POSSIBILITIES WITH 3D SCANNING.

**ON-THE-GO SCANNING:** FITS INTO A CARRY-ON CASE, SO YOU CAN USE IT BOTH IN-HOUSE OR ON SITE.

**LIGHTWEIGHT AND SMALL:** WEIGHTS UNDER 1 kg, CAN REACH CONFINED AREAS. FITS INTO A CARRY-ON.

**HYBRID POSITIONING:** USES THE PARTS' NATURAL GEOMETRY AND COLOR.

**POINT-AND-SHOOT:** NO NEED TO PREPARE PARTS. JUST GO!

**OPTIONAL TARGETS:** POSSIBLE TO USE TARGETS TO COMPENSATE FOR AN OBJECT'S LACK OF POSITIONING INFORMATION.







## VXELEMENTS™: CREAFORM'S 3D SOFTWARE PLATFORM

The Go!SCAN 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 GO!SCAN 3D SCANNER

### 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.



### 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
- Power supply
- Custom USB cable
- 2 x 500 positioning targets
- 1-year warranty on parts and labor

### OPTIONAL

- Certified laptop computer
- 3D scanner external battery
- Rugged tablet with VXremote
- Manual turntable



## CREAFORM CUSTOMER SERVICE

When you purchase a Creaform 3D measurement solution, you can rely on the CreaCare™ customer service program. We find it important to help you simplify your work, increase your efficiency and make the most out of your Creaform device.

You want to make sure to start things right? For a small fee, you can ask that a qualified expert comes over to your business place to help you get started with your system, and to train your staff on your specific applications.

Of course, we offer you readily available, multilingual technical support on all continents, ensured by knowledgeable, proactive and committed product specialists.

To protect your investment further and keep you on the technological edge, you can also subscribe to a CreaCare Maintenance Plan, offered in various protection packages. Depending on the package selected, you could get instant downloading access to each new release of our proprietary data acquisition software or get a free loaner unit while your device gets serviced, for instance.

## 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.

# TECHNICAL SPECIFICATIONS



**Go!SCAN 20™**



**Go!SCAN 50™**

<b>WEIGHT</b>	930 g	950 g	That's less than a liter of milk.
<b>DIMENSIONS</b>	154 x 178 x 235 mm	150 x 171 x 251 mm	Think about a box of tissues.
<b>MEASUREMENT RATE</b>	550,000 measures /sec.		Every second, more than 500,000 different measurements are recorded to create the 3D model.
<b>SCANNING AREA</b>	143 x 108 mm	380 x 380 mm	Go!SCAN 20: about the size of a typical greeting card. Go!SCAN 50: half the size of a movie poster.
<b>LIGHT SOURCE</b>	White light (LED)		Similar to your LED flashlight!
<b>RESOLUTION</b>	0.200 mm	0.500 mm	Smaller than a grain of sand (but please don't try to scan one...)
<b>ACCURACY</b>	Up to 0.100 mm		Thinner than a human hair!
<b>VOLUMETRIC ACCURACY*</b>	0.300 mm/m		Depends on the size of the part you are scanning...
<b>POSITIONING METHODS</b>	Geometry and/or color and/or targets		Very flexible, taking advantage of all the information naturally available.
<b>STAND-OFF DISTANCE</b>	380 mm	400 mm	About the same distance you would instinctively place your favorite book or e-reader
<b>DEPTH-OF-FIELD</b>	100 mm	250 mm	Greater depth-of-field = more flexibility in the stand-off distance.
<b>PART SIZE RANGE (RECOMMENDED)</b>	0.05 - 0.5 m	0.3 - 3.0 m	From the size of a chicken egg to a sub-compact car: the possibilities are very wide!
<b>TEXTURE RESOLUTION</b>	50 to 250 DPI	50 to 150 DPI	Enough to provide a clean and crisp texture.
<b>TEXTURE COLORS</b>	24 bits		Millions of colors for the widest palette of possibilities.
<b>SOFTWARE</b>	VXelements		Simple but powerful 3D software platform, included with the scanner.
<b>OUTPUT FORMATS</b>	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr		Don't even try to find software that won't open these files...!
<b>COMPATIBLE SOFTWARE</b>	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).		A pretty complete list isn't it?
<b>CONNECTION STANDARD</b>	1 x USB 2.0		Same as your smartphone or camera.
<b>OPERATING TEMPERATURE RANGE</b>	15-40 °C		Meaning pretty much any normal indoor conditions.
<b>OPERATING HUMIDITY RANGE (NON-CONDENSING)</b>	10-90%		

\*With positioning targets or with an object presenting adequate geometry/color texture for positioning.

**CREAFORM**

**Creaform Deutschland GmbH**  
 Meisenweg 37  
 D - 70771 Leinfelden-Echterdingen  
 T. +49 711 1856 8030 | F. +49 711 1856 8099  
[germany@goscan3d.com](mailto:germany@goscan3d.com) | [www.goscan3d.com](http://www.goscan3d.com)

**AMETEK®**  
 ULTRA PRECISION TECHNOLOGIES

Authorized Distributor

Go!SCAN 3D, Go!SCAN 20, Go!SCAN 50, HandySCAN 3D, MetraSCAN 3D, TRUaccuracy, TRUportability, TRUsimplicity, VXelements, VXmodel, VXremote, CreaCare and their respective logo are trademarks of Creaform Inc. © Creaform Inc. 2014. All rights reserved. V1