

EXA™ SCAN

The EXAct scan, every time!

Introducing the EXAscan™, the newest addition to the Handyscan 3D™ line of self-positioning laser scanners by Creaform.

Based on the same breakthrough technology that has made the Handyscan 3D brand so successful, the new EXAscan self-positioning handheld scanner offers increased resolution and accuracy. With the introduction of the EXAscan, it is now possible to carry out EXActing 3D scanning projects with a level of detail and accuracy that no other handheld scanning system can achieve!

APPLICATIONS & SOLUTIONS

INSPECTION

Accurate part digitizing for conformity assessment. Easy and quick scanning of parts for production line adjustments purposes, etc.

REVERSE ENGINEERING

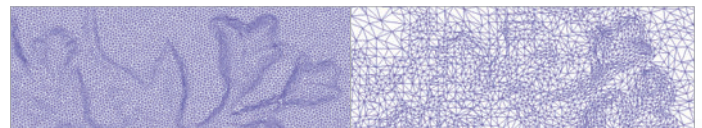
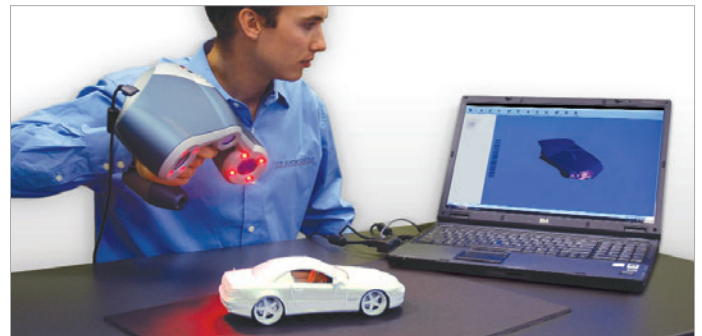
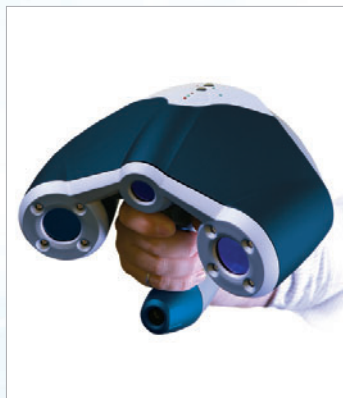
Fast and very accurate 3D scanning of existing objects.

CAD/CAM/CAE

Greatly facilitates the design process from existing concepts, quick transfer of handmade models to CNC machines, easy scanning of prototypes for performance simulations (FEA).

MOCK-UPS

Easily capture physical mock-ups for further modifications, or to obtain 2D or 3D CAD files.



EXAscan

Conventional scanners

BENEFITS

HIGH RESOLUTION

EXAmines every detail and delivers an incredibly high resolution.

VERY HIGH ACCURACY

Offers unequalled accuracy, for an EXAct 3D representation of the object.

AUTOMATIC MULTI-RESOLUTION

The automatic multi-resolution feature enables the scanner to automatically set the highest mesh resolution for any surface acquired in "High Resolution" mode. This reduces the post-processing step accordingly, since it is no longer necessary to increase the mesh resolution manually.

DUAL SCANNING MODE

The top-mounted press button enables the operator to switch between normal and high resolution scanning modes. Normal resolution is useful for large parts and time sensitive scans, while high resolution is best for demanding and complex surfaces.

SELF-POSITIONING

No external tracking or positioning devices are needed. The innovative positioning targets allow the operator to move the object any way he wants.

ONLY TRULY PORTABLE DEVICE OF ITS KIND

Fits in a case the size of a carry-on suitcase, easy to carry on the job site or from plant to plant; provides ease of use and great flexibility during scan sessions.

COST EFFECTIVE

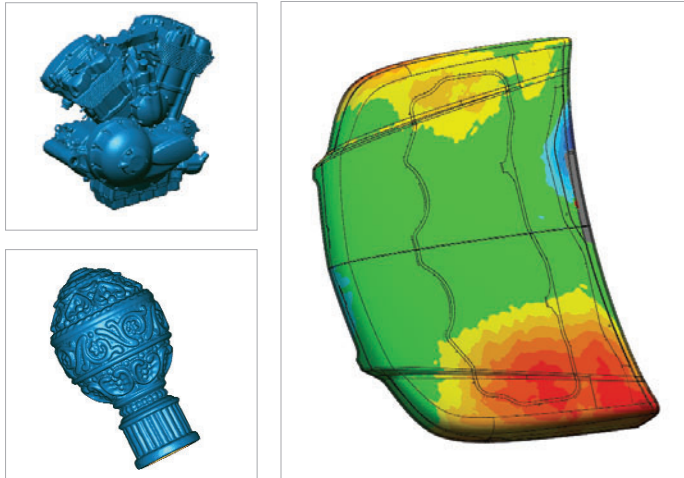
Competitively priced, no time-consuming setups and no CMM arm or other external tracking devices are required, very low maintenance device.

VERSATILE, LIGHTWEIGHT AND USER-FRIENDLY

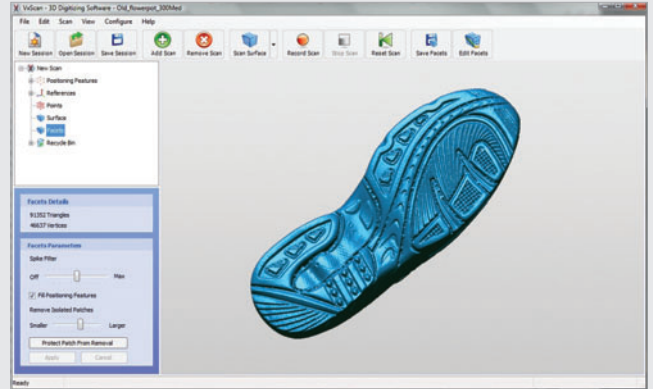
Allows the scanning of objects of virtually any size, shape or color over extended periods of time with comfort and, unlike other technologies, in confined spaces. Very short learning curve; no need for extensive training sessions.

INDUSTRIES

There is virtually no limit to what the innovative EXAscan laser scanner can do. By all means, it proves to be extremely useful and powerful in industries such as **aerospace, automotive, biomechanics, consumer products, education, heritage preservation & architecture** and **multimedia**.



Each EXAscan comes with VxScan™, Creaform's proprietary data acquisition software that powers the Handyscan 3D laser scanners line-up. This software provides real time 3D rendering visualization. Not only is VxScan easy to learn and use, but it also offers great flexibility and powerful options such as surface optimization algorithms, meshing optimization, sensor auto-calibration and more!



SPECIFICATIONS	
WEIGHT	1.25 kg (2.75 lb)
DIMENSIONS	172 x 260 x 216 mm (6.75 x 10.2 x 8.5 in)
MEASUREMENTS	25,000 measurements/s
LASER CLASS	II (eye safe)
RESOLUTION IN X, Y, Z AXIS	0.05 mm (0.002 in)
ACCURACY	Up to 40 µm (0.0016 in)
ISO	20 µm + 0.1 L/1000
DEPTH OF FIELD	30 cm (12 in)

COMPATIBLE SOFTWARE

Paired up with the following CAD/post-processing software, the EXAscan laser scanner delivers great performance:

CATIA V5

HSM™, the Handyscan Scanning Module for CATIA V5, is available from Creaform.

GEOMAGIC

The plug-ins for STUDIO and QUALIFY are provided with VxScan.

POLYWORKS

Plug-ins are available from Innovmetric for the IMEdit and IMInspect modules.

RAPIDFORM

The Handyscan 3D interface is included with every installation of XOS, XOR and XOY.

OTHER SOFTWARE PLATFORMS

Please contact our specialists at info@creaform3d.com



5825, St-Georges Street | Lévis (Québec) G6V 4L2 | Canada
T: 418.833.4446 | F: 418.833.9588

info@creaform3d.com
www.creaform3d.com | www.handyscan3d.com

Authorized distributor