REVscan™

HANDY 3D SCAN™

REV UP YOUR SCANNING POWER!

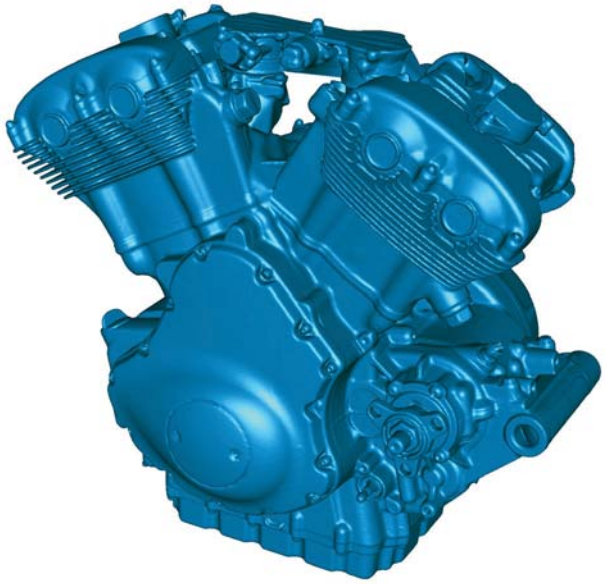
REV™ SCAN

REVscan™

CATCH THE REVOLUTION IN 3D SCANNING WITH THE REVscan™, PART OF THE HANDYSCAN 3D™ LINE OF SELF-POSITIONING SCANNERS BY CREAFORM.

HERE IS THE REVscan™, THE INNOVATIVE SELF-POSITIONING HANDHELD SCANNER THAT HAS COMPLETELY CHANGED THE WAY REVERSE ENGINEERING, DESIGN, SHAPE ACQUISITION AND 3D INSPECTION ARE DONE. POWERFUL, ACCURATE AND TRULY PORTABLE, THE REVscan DEFINITIVELY MAINTAINS ITS TECHNOLOGICAL EDGE.

APPLICATIONS & SOLUTIONS



_ Reverse Engineering & Styling, Design & Analysis:

The REVscan laser scanner allows companies to meet their requirements for creating or recreating new designs from existing and sometimes obsolete products or components, or even old parts that may have been developed without the use of CAD. The REVscan has proven particularly efficient at accelerating and facilitating the product design, creation and prototype analysis processes, while reducing related costs.

The REVscan turns out to be very powerful for tasks such as:

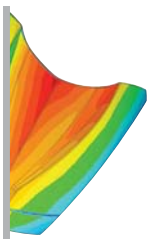
- Surface reconstruction
- Class A surfacing
- 3D modeling
- Mechanical design
- Clay model digitizing
- Tooling & jigs development
- Maintenance, repair & overhaul (MRO)
- Finite element analysis (FEA)

_ Medical Applications:

Non contact, non invasive process. Generation of 3D digital files from body parts or existing objects, orthotics and prosthetics, aesthetics and plastic surgery, body part measurements and reproduction, diagnosis and follow-ups.

_ Inspection:

Scanning and measuring of objects of any size, in various environments. Non contact, first-article and supplier quality inspection, colorimetric reports and overall conformity assessment of parts.

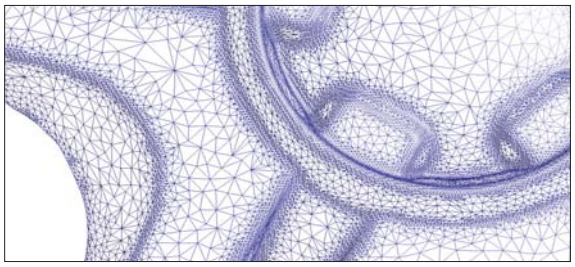


_ Other applications include

3D scanning of existing objects, 3D archiving, complex shape acquisition, measurements archiving, damage assessment, digital models and mock-ups, packaging design and rapid prototyping.

BENEFITS

- **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, over 360°.
- **Truly portable:** Fits in a case the size of a carry-on, easy to carry on the job site or from plant to plant.
- **High accuracy**: Yields some of the highest data quality available in laser scanning technology.
- **True automatic multiresolution:** The new Decimate Triangles slider makes it possible to keep a higher resolution when needed while keeping larger triangles on flat surfaces, thus producing lighter STL files.

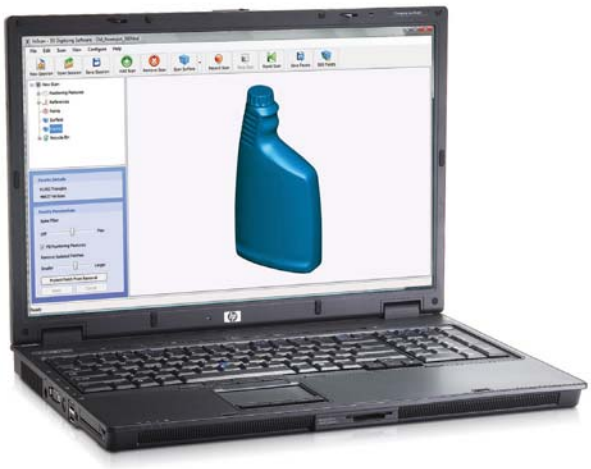


- **Affordable:** Competitively priced, no time-consuming setups and no CMM arm or other external tracking devices are required, very low maintenance device.
- **Handheld device:** The device's shape and weight distribution allows for use on extended periods without leading to musculo-skeletal problems.

- **Versatile and user-friendly:** Allows the scanning of objects of virtually any size, shape or color in confined spaces. Very short learning curve, no extensive training.

INDUSTRIES

Many industries have welcomed with great interest the introduction of the REVscan laser scanner. This innovative device has proved to be extremely useful and powerful in industries such as **aerospace**, **automotive**, **biomechanics**, **consumer products**, **education**, **heritage preservation & architecture** as well as **manufacturing applications**.



VXscan™

Each REVscan comes with VxScan™, Creaform's proprietary data acquisition software that powers the Handyscan 3D laser scanners line-up. This software provides true automatic multiresolution and real time 3D rendering visualization. VxScan is easy to learn and use, and offers powerful options such as enhanced direct .stl generation, surface reconstruction, surface optimization algorithms, improved compatibility (64 bits) and more!

TECHNICAL SPECIFICATIONS

Weight	980 grams (2.1 lb)
Dimensions	160 x 260 x 210 mm (6.25 x 10.2 x 8.2 in)
Measurements	18,000 measures/s
Laser class	II (eye-safe)
Resolution in Z axis	0,1 mm (0.004 in)
Accuracy	Up to 50 µm (0.002 in)
ISO	20 µm + 200 µm/m
Depth of field	30 cm (12 in)
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr

COMPATIBLE SOFTWARE

Paired up with the following CAD/post-processing software, the REVscan 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 & IMInspect modules
- Rapidform: The Handyscan 3D interface is included with every installation of XOS, XOR and XOV
- µLog XG, Metrolog XG and Metrolog V5: Plug-in included with µLog XG. For the other 2 software, the plug-in can be purchased from Creaform and metrologic group

Other software platforms: please contact our specialists at info@creaform3d.com

DASSAULT SYSTEMES Software Partner

Included:

Carrying case
Calibration plate
Ergonomic support
FireWire cable
ExpressCard connecting card
Power supply
2,500 positioning targets
1-year warranty on parts and labour

Optional Accessories

Field Pack (for outdoors, in-the-field scanning)
Laptop computer (Creaform strongly recommends the purchase of its certified computer, as it guarantees the scanner's optimum performance)
Magnetic, reusable scanning positioning targets
Target applicator
Etc

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