

## REV™ SCAN

### REV up your scanning power!

Catch the REVolution in 3D scanning with the REVscan™, part of the Handyscan 3D™ line of self-positioning laser scanners by Creaform.

Since its introduction, the REVscan (formerly known as the Handyscan 3D) is REVolutionizing the world of 3D scanning. This greatly innovative self-positioning handheld scanner has completely changed the way shape acquisition, reverse engineering and 3D inspection are done. With the introduction of the REVscan, the industry saw the range of 3D digitizing possibilities expand tremendously.

### APPLICATIONS & SOLUTIONS

**REVERSE ENGINEERING**  
Fast and accurate 3D scanning of existing objects.

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

**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.



### 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.

**TRULY PORTABLE**  
Fits in a case the size of a carry-on suitcase, easy to carry on the job site or from plant to plant.

**HIGH ACCURACY**  
Yields some of the best data quality available in laser scanning technology.

**LIGHTWEIGHT**  
Allows the scanning of objects over extended periods of time, with comfort.

**VERSATILITY**  
Allows for the scanning of objects of virtually any size, shape or color. Unlike other technologies, the REVscan allows scanning in confined spaces.

**HANDHELD DEVICE**  
Provides ease of use and great flexibility during scan sessions.

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

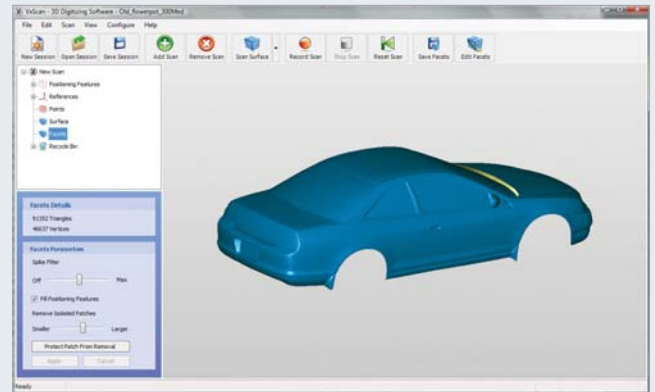
**USER-FRIENDLY**  
Very short learning curve; no need for extensive training sessions.

## 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** and **multimedia**.



Each REVscan comes with VxScan™, Creafom's proprietary data acquisition software that powers the Handyscan 3D 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

<b>WEIGHT</b>	980 grams (2.1 lb)
<b>DIMENSIONS</b>	160 x 260 x 210 mm (6.25 x 10.2 x 8.2 in)
<b>MEASUREMENTS</b>	18,000 measurements/s
<b>LASER CLASS</b>	II (eye safe)
<b>RESOLUTION IN Z AXIS</b>	0.1 mm (0.004 in)
<b>ACCURACY</b>	Up to 50 µm (0.002 in)
<b>ISO</b>	20 µm + 0.2L/1000
<b>DEPTH OF FIELD</b>	30 cm (12 in)

## COMPATIBLE SOFTWARE

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

### CATIA V5

The Handyscan Scanning Module™ (HSM) for CATIA V5, is available from Creafom.

### 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@creafom3d.com](mailto:info@creafom3d.com)

Authorized distributor



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