

VIUscan™

HANDY ~~3D~~ SCAN™



A FULL PALETTE  
OF POSSIBILITIES!





ONCE AGAIN, **CREAFORM** PUSHES THE LIMITS OF PORTABLE 3D SCANNING WITH THE INTRODUCTION OF THE **VIUscan™**. THIS NEW SELF-POSITIONING SCANNER OPENS THE DOOR TO QUICK, AFFORDABLE AND ACCURATE COLOR SCANNING PROCESSES. **WITH THIS BREAKTHROUGH SCANNER, HANDYSCAN 3D™ DEFINITELY SHIFTS TO 4D!**

**PART OF A WELL-RENOWNED LINE-UP OF ADVANCED 3D SCANNERS, THE VIUscan IS THE ONLY TRULY PORTABLE HANDHELD 3D COLOR SCANNER TO DELIVER SUCH ACCURATE AND HYPERREALISTIC RESULTS.**

**APPLICATIONS & SOLUTIONS**

**– Entertainment/Multimedia:**

Face/body still scans for realistic human representation, special effects or face replacement (stunts). Digitizing of real life inanimate objects or environments for optimum realism, production of full size decors through the digitizing of small scale maquettes.



**– Museology/Heritage Preservation:**

Representation of art pieces for multimedia presentations, virtual museums (Web, on-site), digital archiving, production of replicas for commercial and marketing purposes (scaled-down version of statues), damage assessment, restoration of cultural heritage (reverse engineering/repairs based on remains), virtual restoration, 3D reproduction of archaeological/historical sites, scanning of fossils for analysis (reconstitution and reconstruction purposes).



**– E-Marketing/Web Development:**

Scanning of objects for interactive 3D content (e.g. product animation or visualization in 3D for online sales), production of 3D models for Web design.



**– Industrial Design**

Reverse engineering (design from existing color objects), design from scaled down color mock-up, colored or annotated clay models, shape and color part inspection, technical documentation (assembly, maintenance and repair document), 3D collaboration.



**– Other applications** include 3D scanning of existing objects, 3D archiving, forensic analysis, artistic and medical applications, complex shape acquisition, measurements archiving, damage assessment, digital models and mock-ups and rapid prototyping.

## FEATURES & BENEFITS

- **High resolution and accuracy:** Captures every detail and delivers high resolution and accurate geometry and textures, for an exact representation of the object.
- **Truly portable:** Fits in a case the size of a carry-on suitcase, easy to carry on the job site.
- **Automatic 100% accurate texture mapping:** The texture and geometry of the object are automatically acquired in one and the same reference system and aligned together with 100% accuracy, eliminating the alignment step usually required after scanning.
- **Adjustable and uniform texture resolution:** The output file shows uniform DPI resolution throughout the whole model, from every viewing angle, which is a great feature when scanning strong curvature forms.
- **True color acquisition:** Thanks to the built-in lighting system, the scanner acquires sRGB-calibrated colors, regardless of the ambient light conditions.
- **Optimal file size:** The resolution parameters make it possible to increase/decrease the texture and geometry resolution at will, and independently of one another, so to create files of optimum size and quality.



- **User-friendly and easy to learn:** The scanning process is virtually plug & play! No particular technical skills are required from the user.
- **Versatile:** The device can be used virtually anywhere and under any conditions, since it requires no external reference system, is lightweight and handheld.
- **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.
- **Dual scanning mode:** The top-mounted press button enables the operator to switch between color-textured geometry scanning or geometry scanning only. The latter can be selected to reduce the size of the final file, when color acquisition is not necessary.
- **Affordable system:** Competitively priced, no time-consuming setups, requires very low maintenance.



Each VIUscan comes with VxScan™, Creaform's proprietary data acquisition software that powers the Handyscan 3D laser scanners line-up. This software provides automatic 100% accurate texture mapping and real time 3D rendering visualization and adjustable texture contrast and brightness parameters. 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	1.3 kg (2.85 lb)
Dimensions	172 x 260 x 216 mm (6.75 x 10.2 x 8.5 in)
Measurements	18,000 measures/s
Laser class	II (eye-safe)
Geometry Resolution	0.1 mm (0.004 in)
Accuracy	Up to 50 µm (0.002 in)
ISO	20 µm + 0.2 L / 1000
Texture Resolution	50 to 250 DPI (user-configurable)
Texture Colors	24 bits, sRGB-calibrated
Depth of field	30 cm (12 in)
Output file formats	.dae, .obj, .ma, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr

## COMPATIBLE SOFTWARE

The VIUscan generates various files formats that are compatible with major CAD/post-processing and animation software such as:

- \_ Geomagic
- \_ Maya
- \_ PolyWorks
- \_ RapidForm
- \_ 3D Studio Max
- \_ 3DVIA

For more information about all the software platforms compatible with the VIUscan, contact our specialists at [info@creaform3d.com](mailto:info@creaform3d.com).

### Included:

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

### Optional Accessories

Laptop computer (Creaform strongly recommends the purchase of its certified computer, as it guarantees the optimum performance of the scanner)  
Target applicator



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3D TECHNOLOGY AND DIGITAL SOLUTIONS

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