THE PORTABLE 3D SCANNERS FOR INDUSTRIAL APPLICATIONS
Handyscan 3D™ stand out as the most accurate portable 3D scanners on the market today.

Because we know that you are serious about your work, we have developed an extensive line of 3D laser scanners that will work wherever you need them to. They feature the TRUaccuracy™ technology, that guarantees accuracy no matter the environment, part set-up or user’s level of experience. Thousands of units later, our 3D scanners are living up to their reputation of reliability and versatility.

Serious work. Serious technology. Introducing the Handyscan 3D scanners.
LOOKING FOR THE MOST EFFICIENT WAY TO REVERSE ENGINEER AND/OR DESIGN?
THE REVscan™ WILL PROVE TO BE A RELIABLE TOOL THAT WILL HELP YOU GET THERE.

REVERSE ENGINEERING / STYLING, DESIGN AND ANALYSIS
- 3D-scan-to-CAD
- Styling and design modifications
- As-built CAD modifications
- Class A surfacing
- Vehicle design & styling
- Aftermarket part design
- Digital models and mock-ups
- Clay model digitizing
- Custom part design
- Packaging design
- Rapid prototyping / 3D printing
- Finite element analysis (FEA)

QUALITY CONTROL/INSPECTION
- Non-contact inspection
- Part-to-CAD inspection
- Geometric dimensioning and tolerancing (GD&T)
- First article inspection
- Production compliance inspection
- Supplier quality inspection
- Tool testing and adjustment
- Die and mold inspection
- Casting inspection
- Aircraft component inspection
- Vehicle inspection

THE EXAscan™ OFFERS INCREASED ACCURACY AND RESOLUTION, IT IS THE MOST VERSATILE 3D SCANNER ON THE MARKET FOR INSPECTION AND DEMANDING REVERSE ENGINEERING.
MUSEOLOGY/HERITAGE PRESERVATION
- Preservation, restoration and digital archiving
- 3D scanning for research, analysis and publishing

MULTIMEDIA / ENTERTAINMENT
- Computer graphics and special effects
- Virtual reality / augmented reality (serious gaming, 3D training systems)

REVERSE ENGINEERING AND INSPECTION
- Aircraft component inspection
- Assisted assembly (aerospace)
- Vehicle design or inspection (automotive, marine/military, heavy industry)
- Large-scale tooling inspection and adjustment
- Maintenance, repair and overhaul (MRO)
- Large castings inspection
- Large moulds/dies design or inspection

THE MAXscan™ IS THE OBVIOUS CHOICE FOR 3D SCANNING OF LARGER PARTS. IT FEATURES THE Handyscan 3D HIGH-ACCURACY, ENHANCED WITH PHOTOGRAMMETRY CAPABILITIES.

NEED HIGH-RESOLUTION 3D COLOUR DATA AND SHAPE? THE VIUscan™ WILL CAPTURE EVERY DETAIL AND DELIVER HYPERREALISTIC RESULTS.

HANDYSSCAN 3D SCANNERS
VXelements™

The Handyscan 3D scanners come with VXelements, the all-in-one 3D data acquisition software that powers its entire fleet of 3D scanning and measurement technologies. It gathers all the essential elements and tools into a uniform, user-friendly and intuitive working environment.

VXscan is entirely dedicated to the acquisition and optimization of 3D scanning data. It delivers high performance for that specific task, yet it is simple and user-friendly enough to suit any user’s experience level.

VXelements is now compatible with your tablet and intelligent phone! No matter where you are, you can remotely interact with VXelements and have all its data acquisition functionalities at your fingertips. This is freedom at its best!

ACCESSORIES

Included

- Carrying case
- Calibration plate
- Ergonomic support
- FireWire cable
- FireWire adapter (ExpressCard)
- Power supply
- 5 x 500 positioning targets
- 1-year warranty on parts and labour

MAXscan (Photogrammetry):

- Magnetic coded targets (#31-240)
- Reference frame (1)
- Scale bars, 1000 mm (2)
- 2 carrying cases (1 for scanning device + 1 for scale bars)

Optional

- Certified laptop computer
- Field Pack (for outdoors, in-the-field scanning)
- Target applicator
- Magnetic, reusable scanning positioning targets

CREAFORM CUSTOMER SERVICE

When you purchase a Handyscan 3D laser scanner, Creaform backs you up with the CreaCare customer service program. We offer readily available, multilingual technical support on all continents, ensured by knowledgeable, proactive and committed product specialists.

We find it important to help you simplify your work, increase your efficiency and make the most out of your Handyscan 3D scanner. To keep you on the technological edge, you can also choose to get instant downloading access to every new release of VXelements (and the VXscan module). If you wish, you can ask that a qualified metrologist or applications engineer comes over to your place to help you get started with your 3D scanner, and to train you and/or your staff on your specific applications.

Last but not least, Creaform’s client service agents follow up with each and every client to make sure that they are satisfied with their Handyscan 3D, and that they know exactly who to contact in case of a problem. And if anything should happen, we guarantee quick and reliable servicing.
The MaxSHOT 3D optical coordinate measuring system is a complementary product that adds photogrammetry to the wide range of 3D scanning applications. The system combines the MaxSHOT 3D photogrammetric video camera and the VXshot™ processing software, and stands out from other systems because it is so easy to use. Its user-friendly design allows even those new to photogrammetry to quickly and easily generate a high accuracy positioning model of an object based on a series of photos.

The MaxSHOT 3D system generates positioning models that can be used with all Handyscan 3D scanners to determine their repositioning around the object to be scanned. Doing so, we get highly accurate data, and most especially when measuring larger parts.

COMPATIBLE SOFTWARE
Paired up with the following CAD/post-processing software, the Handyscan 3D scanners deliver great performance:

- Go!MODEL
- 3D Systems (Geomagic® Solutions)
- InnovMetric Software (PolyWorks)
- Dassault (CATIA V5 and SolidWorks)
- PTC (Pro/ENGINEER)
- Siemens (NX and Solid Edge)
- Autodesk (Inventor, Alias, 3ds Max, Maya, Softimage)

Other software platforms: contact our specialists at info@creaform3d.com.
# Handyscan 3D Comparison Matrix

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<td>INSPECTION</td>
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<td>FEA/CFD</td>
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<td>3D VIRTUAL CONTENTS IN COLOUR</td>
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## APPLICATIONS

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## WEIGHT
- 980 grams (2.1 lbs.)
- 1.25 kg (2.75 lbs.)
- 1.27 kg (2.80 lbs.)
- 1.3 kg (2.85 lbs.)

## DIMENSIONS
- 160 x 260 x 210 mm (6.25 x 10.2 x 8.2 in.)
- 172 x 260 x 216 mm (6.75 x 10.2 x 8.5 in.)
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## RESOLUTION
- 0.100 mm (0.004 in.)
- 0.050 mm (0.002 in.)
- 0.100 mm (0.004 in.)
- 0.100 mm (0.004 in.)

## ACCURACY
- Up to 0.050 mm (0.002 in.)
- Up to 0.040 mm (0.0016 in.)
- Up to 0.050 mm (0.002 in.)
- Up to 0.050 mm (0.002 in.)

## VOLUMETRIC ACCURACY
- 0.020 mm + 0.200 mm/m (0.0008 in. + 0.0024 in./ft)
- 0.020 mm + 0.100 mm/m (0.0008 in. + 0.0012 in./ft)
- 0.020 mm + 0.025 mm/m (0.0008 in. + 0.0003 in./ft)
- 0.020 mm + 0.200 mm/m (0.0008 in. + 0.0024 in./ft)

## DEPTH OF FIELD
- ± 150 mm (± 6 in.)
- ± 150 mm (± 6 in.)
- ± 150 mm (± 6 in.)
- ± 150 mm (± 6 in.)

## LASER CROSS AREA
- 210 mm x 210 mm (8.2 in. x 8.2 in.)
- 210 mm x 210 mm (8.2 in. x 8.2 in.)
- 210 mm x 210 mm (8.2 in. x 8.2 in.)
- 210 mm x 210 mm (8.2 in. x 8.2 in.)

## LASER CLASS
- II (eye-safe)
- II (eye-safe)
- II (eye-safe)
- II (eye-safe)

## OPERATING TEMPERATURE RANGE
- 15-40 °C (59-104 °F)

## OPERATING HUMIDITY RANGE (NON-CONDENSING)
- 10-90%

## SOFTWARE
- VXelements

## OUTPUT FORMATS
- .dae, .fbx, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr

## PART SIZE RANGE (RECOMMENDED)
- 5 m
- 4.5 m
- 3 m
- 2 m
- 1 m

## *Based on the ISO 10360 standard, volumetric accuracy is defined as a size-dependent value.*