

Handheld Scanning Solutions

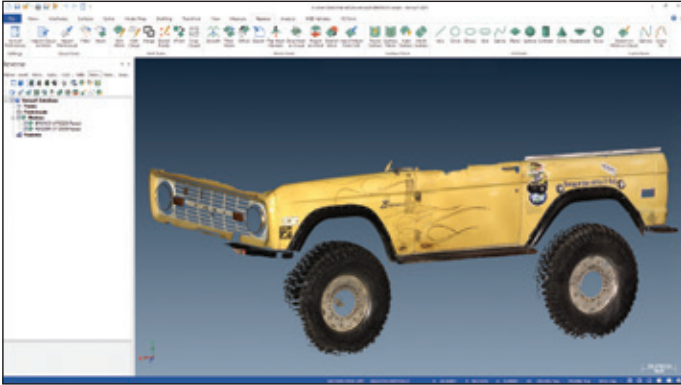


Automated 3D Scanning
Reverse Engineering and Inspection

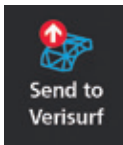
POWERED BY
VERISURF.

Intelligent 3D Scanning Solutions

Peel 2 Handheld Scanner



Peel 2 features 'one-button' export of high-quality point cloud data directly into Verisurf software for measurement processing. From there Verisurf is able to measure, mesh, model, inspect and report as needed, establishing and maintaining a digital thread forward.

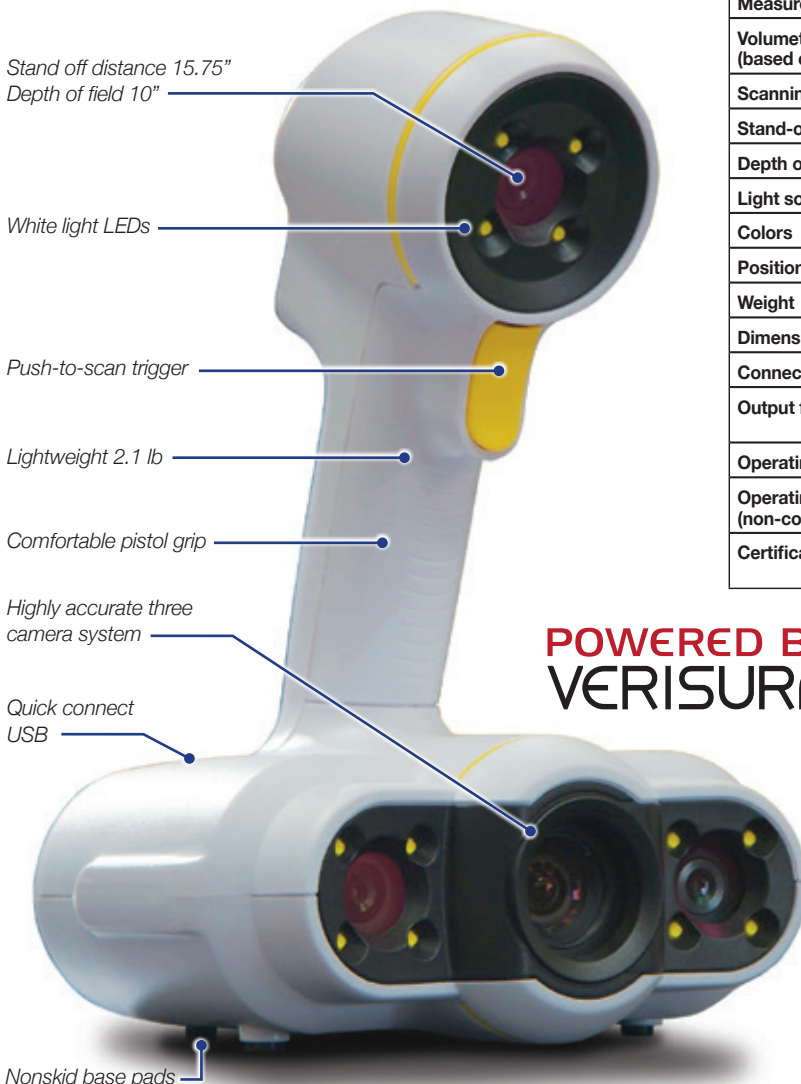


The peel 2 is the next-generation peel 3D scanner, it features the same easy to use features but with enhanced performance. With peel 2 you can tackle scanning jobs requiring greater measurement resolution, color capture, enhanced tracking, and the power to handle more complex geometry.

The peel 2 scanner is an ideal companion for any of the Verisurf software suites. Whether you need to scan and 3D print, generate intelligent 3D CAD models from artifacts or inspect manufactured parts for design compliance, the peel 2 scanner combined with Verisurf software is fast and easy to use, yet has the features and power to handle virtually any scan job that may arise.

Specifications:

Part size range (recommended)	0.3 – 3.0 m (1 – 10 ft)
Accuracy	Up to 0.250 mm (0.01 in)
Mesh resolution	0.500 mm (0.020 in)
Measurement resolution	0.250 mm (0.010 in)
Measurement rate	550,000 measurements/s (1)
Volumetric accuracy (based on part size)	0.500 mm/m (0.006 in/ft)
Scanning area	380 x 380 mm (15.0 x 15.0 in)
Stand-off distance	400 mm (15.75 in)
Depth of field	250 mm (10.0 in)
Light source	White light (LED)
Colors	24 bits
Positioning methods	Geometry and/or targets and/or texture
Weight	950 g (2.1 lb)
Dimensions	150 x 171 x 251 mm
Connection standard	1 x USB 2.0
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr
Operating temperature range	5–40°C (41–104°F)
Operating humidity range (non-condensing)	10–90%
Certifications	EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), IP50, WEEE



**POWERED BY
VERISURF.**



The peel 2 3D scanner comes with everything you need to be productive, right out of the box, including the scanner, a calibration plate, positioning targets, a power supply, and a USB stick containing the manual and scanner software installer. Add to this your choice of Verisurf application suite and you have the power to finish the job.

Verisurf Model-Based Definition

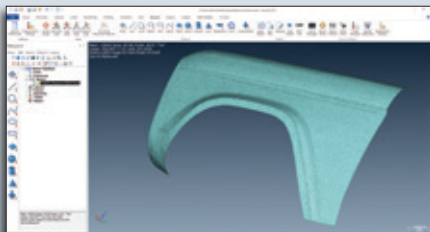
Powerful Verisurf application suites lets you select exactly what you need, and nothing you don't.

Verisurf application suites are all built on a common CAD platform. This makes Verisurf software very robust when it comes to model-based measurement, inspection, and reverse engineering. Verisurf is committed to Model-Based Definition (MBD), which permits rapid comparison of measurements directly to a nominal CAD model, maintains digital consistency, and supports downstream processes associated with manufacturing 4.0 initiatives.

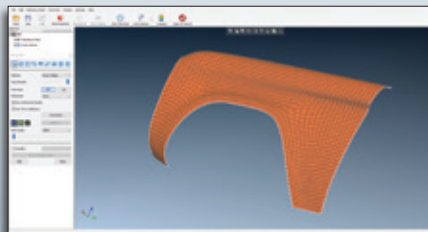


Reverse Engineering Suite with Quick Surface Option

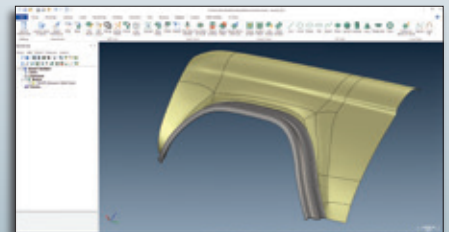
Import any 3D scan point cloud or STL mesh. Create 3D printable STL models for additive manufacturing, 3D surfaces for industrial design and rapid machining or complete solid models with intelligent GD&T for manufacturing. Includes Verisurf CAD and REVERSE and QUICK SURFACE modules.



MEASURE - Scan and capture measurement data with the peel 2 3D scanner and 'One-Button' export the point cloud data to Verisurf.



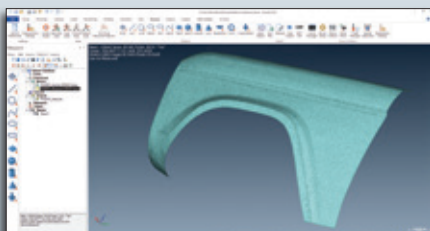
MESH - Verisurf's array of mixed modeling tools, including Quick Surface digital sculpting software, produces high-quality STL meshes.



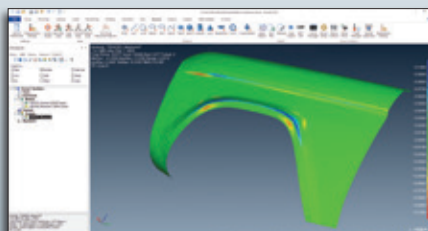
MODEL - Verisurf converts STL meshes into intelligent 3D CAD models ready to use with your favorite CAD/CAM system for CNC tool paths generation, and model-based inspection.

Scan Data Inspection Suite

Import any 3D scan point cloud or STL mesh. Automatically extract and analyze scan data to CAD model nominals and quickly produce intelligent GD&T reports. Save reusable, automated inspection plans to support production inspection. Includes Verisurf CAD and ANALYSIS modules.



MEASURE - Scan and capture measurement data with the peel 2 3D scanner and 'One-Button' export the point cloud data to Verisurf.



INSPECT - Verisurf aligns the scanned measurement data to the nominal CAD and compares it to the intelligent GD&T.



REPORT - Quality verification reports can be generated in a variety of business presentation formats or to a database.

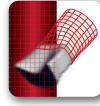
Verisurf Software Modules



CAD

The CAD module is at the foundation of all Verisurf measurement solutions, and is a required component of every configuration.

- Read any proprietary or universal CAD file format
- Create colorful reports in multiple formats
- Interrogate CAD model for dimensions
- Create and edit solid CAD models



REVERSE

- Create manufacturable CAD models from physical parts
- Build mesh surfaces and solid models
- Easily align multiple, scanned pointcloud objects
- Create CAD geometry from pointcloud or mesh cross sections
- Fully automated CAD surfacing from pointclouds and meshes



ANALYSIS

- Analyze deviations of pointclouds and meshes to CAD
- One click alignment, deviation analysis, and report creation
- Automatic probe radius compensation
- Best fit points and pointclouds to surfaces and holes
- Embed annotated, full-color plots in reports



QUICK SURFACE OPTION FOR VERISURF REVERSE

- Quick Surface is a powerful option for the Verisurf Reverse suite
- The software creates efficient, smooth surface geometry from scan data or STL files
- True digital sculpting for fast editing of complex surface features
- Snap to mesh and surface extrapolation features
- Smooth surface modeling supports high-speed tool paths

Verisurf Universal Compatibility

Verisurf is committed to supporting open standards that deliver the most flexible, hardware-independent solutions possible.

SOFTWARE

With Verisurf, it's simple to compare as-built dimensions to design values using traditional blueprints or CAD models. Opening any 2D or 3D geometry file is as easy as clicking File-Open from Verisurf's Windows-standard interface.

HARDWARE DEVICES

Verisurf works with all common measuring devices including portable CMM arms, CNC CMMs, laser trackers, handheld scanner, mounted scanners, laser projectors and photogrammetry systems.

TRAINING AND SUPPORT

All Verisurf solutions include options for maintenance, tech support and online or live instructor led training.



Verisurf Authorized Distributor



4907 East Landon Drive, Anaheim, CA 92807
P 888.713.7201 • www.verisurf.com

© 2021 Verisurf Software, Inc.