

FARO

SCENE SOFTWARE

FARO Scene is the high-performance and practical 3-D point cloud software tool for the professional user. It is specially designed for viewing, administrating and working on 3-D scan points from high-resolution 3-D laser scanners such as the FARO Laser Scanner LS. This tool allows the user to manipulate raw 3-D scan points and acquire with analysis functions initial point-cloud data comprehension. Through data analysis and manipulation, scan points may be prepared for export into the user's CAD system.

- Point Cloud filtering, compression, noise reduction and registration
- Analyze CAD models against point clouds to recognize collisions and deviations
- Measure distances between objects
- Model basic graphical objects e.g. planes, spheres, cylinder (pipes) etc. from Point Clouds

Most Common Applications

Together with specific software solutions for each industry:

Product Design/Compare, Architecture & Civil Engineering:

As-Built Documentation, Dimensional Calculations

Petrochemical, Power Plant, Process Industry:

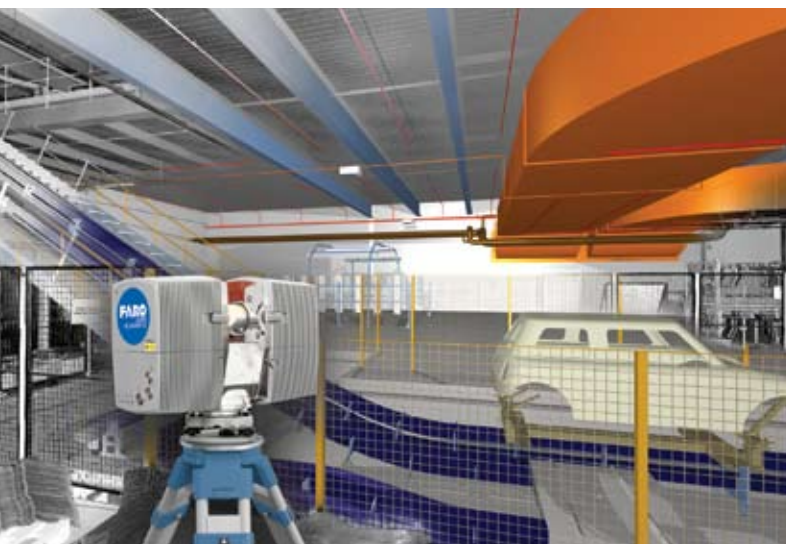
Reverse Engineering, As-Built Documentation

Forensics:

Blood Splatter Analysis, Bullet Trajectory

Heritage:

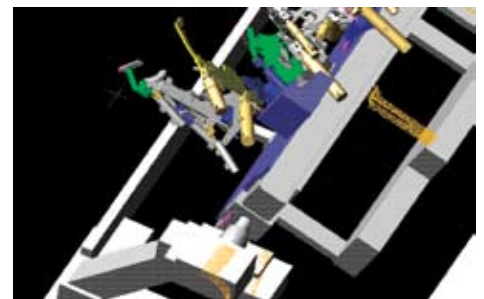
Colored Orthophoto, Fly-Through



Measurement and Analysis



Manipulating 3-D Scan Points



VRML-Import into Point Cloud

Multi Language Support: English, German, French, Spanish, Italian, Japanese, Chinese, Portuguese

Quick Start:

Well-structured menus for intuitive interaction. Drag-and-drop for easy creation of workspaces. Onboard help.

Makes Quality Assurance for CAD Models Effortless:

The importing of CAD models via VRML into FARO Scene simplifies CAD/point cloud overlays and provides instant graphic representation that is easy to interpret.

Planning and Time-Management Optimization:

Point cloud data gives the flexibility to take measurements when required.

Data Management of Extensive Projects

- Hierarchical structure
- Handling of thousands of scans
- Easy intergration of level information

Analysis

- Detailed registration analysis to optimize registration quality
- Distance measurement
- Evenness of floors or walls

Import & Export

- Targets (.cor)
- Scan points (FAROScan, FAROCloud, .dxf, VRML, .igs, .pts, .ptx, .ptc)
- CAD objects (.igs, .dxf)
- Scan pictures (.jpg)

Navigation

- Displaying scan positions for viewpoint selection
- Fly-through, Examine, Pan

Creating Workspaces

- Scans
- CAD objects
- Object fitting with visual evaluation Meshes/Spheres/Cylinder/Planes (including automatic border detection)
- Survey points
- Distance measurements
- Intuitive user interface with structure view and support of drag-and-drop functionality between Windows Explorer and FARO Scene

Views

- Planar view (Black & white or colored)
- 3-D view with intelligent contrast adjustments to increase visibility
- View of Scan dependency in registration
- CAD object display
- Quick view
- Print and print preview
- Grey scale or colored scan points
- Display of intensity value or color-coded distances

Accurate 3-D Data

For real-time planning at the touch of a button.

Solutions for survey, design, planning and maintenance in the following areas:

- Digital Factory / Virtual Reality
- Architecture / Civil Engineering
- Archeology and Cultural Heritage
- Plant Design
- Automation Systems

System Requirements

- **Microsoft Windows XP** (Professional or Home Edition, SP1 or later); **Windows 2000** (SP2 or later); **Windows NT 4.0** (SP6)
- **1 GHz processor** (2.5 GHz recommended)
- **1 GB RAM** (2 GB recommended)
- **Mouse with 2 buttons and wheel**
- **Graphics Card with 32MB & OpenGL hardware acceleration**
- **Ethernet card for licensing**



GSA Contract Holder

www.FARO.com
800.736.0234



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