

# PointSense Suite

All-in-One solution for point cloud modeling and analysis across Autodesk® AEC platforms

# FARO®

## Plug-ins for AutoCAD® and Autodesk® Revit®

The PointSense Suite offers intelligent geometry extraction tools for modeling and analysis for real world QA/QC across Autodesk AEC platforms. Deliverables such as floor plans, BIM models, plant components and image plans can be easily extracted in any Autodesk platform.

## All-in-One Package

The PointSense Suite bundles all well known PointSense products for AutoCAD and Revit in one package: PointSense basic and Pro, PointSense Building, PointSense Heritage, PointSense Plant and PointSense for Revit.

## Powerful Tools for Point Cloud Modeling & Analysis

Accelerate point cloud processing with enhanced scan navigation, geometry extraction tools, intuitive sectioning, Intelligent Smartsnaps and superior deformation analysis visualizations and reporting.

## Intelligent Industry Tools

Create industry specific 2D and 3D results from as-built data according to the specific documentation task.

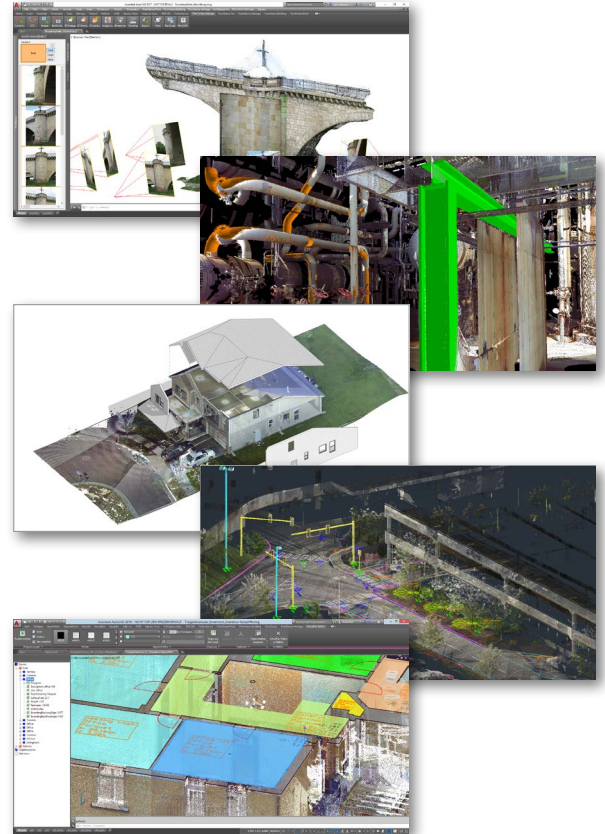
Extract 2D plans, 3D building elements, topo features, pipe and steel work, tanks, or generate new BIM Family objects.

## Expanded Processing Possibilities

The PointSense Suite is a new product bundle of FARO® Technologies popular PointSense Plug-ins for AutoCAD and Revit that significantly accelerates the evaluation of laser scan data. It provides a complete set of powerful point cloud processing tools on one license. Utilizing the PointSense Suite provides service providers a greater amount of deliverable offerings when tasked with 3D documentation for Architecture, Engineering and Construction (AEC) applications.

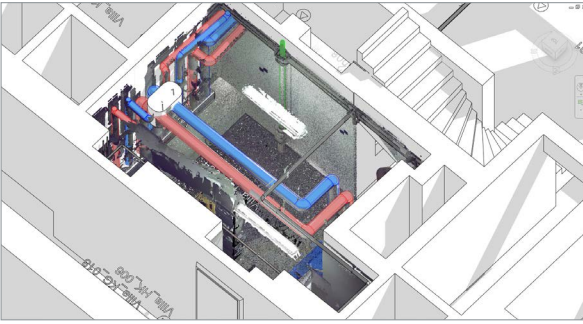
Whether to model and detail BIM elements inside Revit, such as ground surfaces, walls, doors, columns, roofs and stairs or to extract data such as 2D floor plans, pipe runs, steel beams, 3D models or image plans inside AutoCAD, the PointSense Suite allows users to create customized deliverables for any AEC construction application.

Receiving all PointSense products in one package redefines productivity and flexibility in processing FARO laser scan data as well as scans captured by 3rd party hardware manufacturers.



## Benefits

- ▶ All-in-One solution for processing scan data in the familiar Autodesk environment
- ▶ More cost-effective compared to buying separate PointSense programs
- ▶ Extract laser scan data required by various industry standards and specifications by simply switching between software modules
- ▶ All software platforms are conveniently operable on one master license



## POINTSENSE FOR REVIT

### Process 3D laser scan data directly in Revit

- Automatic fitting and alignment tools for walls, pipes and structural elements
- Create directly in the point cloud using real 3D point snap and work plane fitting
- Process scan data in the Revit family editor
- Compare your model with reality using the surface analysis tool

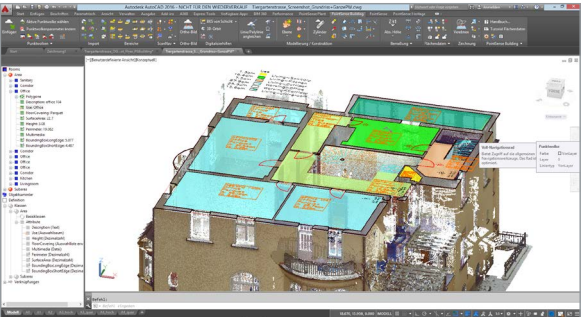
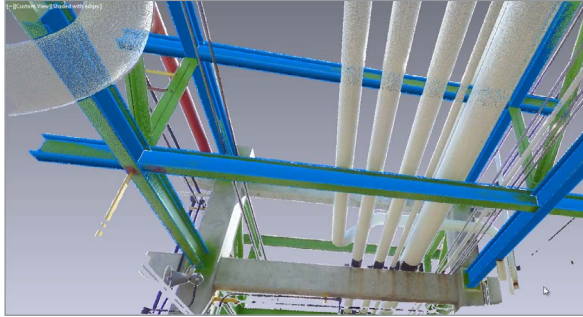
## POINTSENSE FOR AUTOCAD

### Process 3D laser scan data directly in AutoCAD

#### PointSense Plant

##### *from laser scans to consistent plant models*

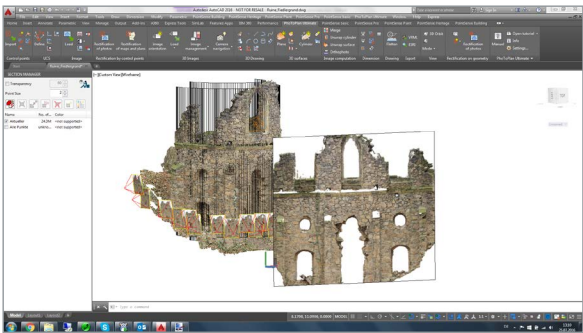
- Pre-calculate and auto-recognize industry standard components (pipe runs, steel beams)
- Tank analysis tools (deformation, volume analysis, etc.)
- Determine tie in points and pipe center lines
- Export models to design programs such as AutoCAD Plant 3D and Advance Steel®



#### PointSense Building

##### *generate 2D plans from 3D laser scan data*

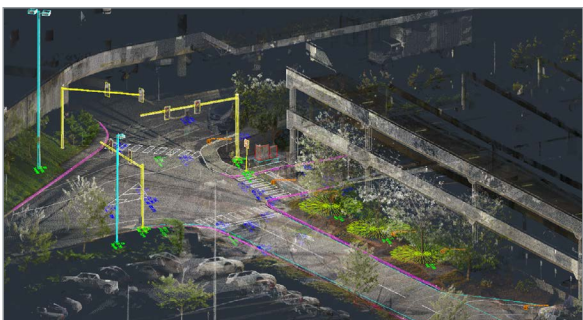
- Fast construction of 2D sections through tools for automatic line extraction
- Drawing commands for building elements such as windows, stairs, doors
- Database driven area management tools
- Tools for analyzing deformations such as floors and facades



#### PointSense Heritage

##### *photogrammetry and laser scans in AutoCAD*

- Flexible construction of 3D models thanks to integration of point clouds and photos
- Generation of true-to-scale image plans and unwound image plans
- Intuitive navigation within the planar scan view of the scan data



#### PointSense Basic/Pro

##### *generic tools for point cloud modeling*

- Section manager assists in management, hiding/displaying of sections
- SmartSnap feature allows easy snapping of corners, edges and planes
- Tools to create results, such as deformation reports (heat maps and elevation plans)

## Technical Requirements

<b>Platform</b>	Revit 2015, AutoCAD 2015 and above. Also compatible with associated products such as Civil 3D, Architecture and Map 3D. Should older Autodesk products be used, please contact FARO.
<b>Operating system</b>	Dependent on the version of AutoCAD and Revit being used, 64-bit systems only.
<b>Recommended hardware requirements</b>	Computer: Graphics card as recommended by Autodesk, RAM at least 8GB, better 32GB and more, processor at least 2.5 GHz, better 3-4 GHz and 4-8 cores, SSD for larger projects; Laser scanner type to suit job in hand.
<b>Data requirements</b>	Registered, that is to say scans (and images) are oriented to each other.
<b>Supported scan data formats</b>	E57, ASCII, LAS, FARO (LSPROJ, FLS, FWS), Leica (PTZ, PTS, PTX), Zoller&Fröhlich (ZFS, ZFPRJ), Topcon (CL3, CLR) Leica (PTG) and Riegl RiScanPro-Projects (RSP).

For more information, call 800.736.0234  
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