



# VisionLidar

Point clouds at your fingertips



## A COMPLETE POINT CLOUD SOFTWARE

Why VisionLidar?

Exclusive  
Capabilities

Fit any Industry

VisionLidar  
Suite

# WHY VISIONLIDAR?



## Save time

Classify your objects 3x faster, thanks to the object recognition tool. Focus on the most important aspects of your project in just a few steps. Process an unlimited amount of points, and use the registration tool to combine point clouds without any constraint.



## Save money

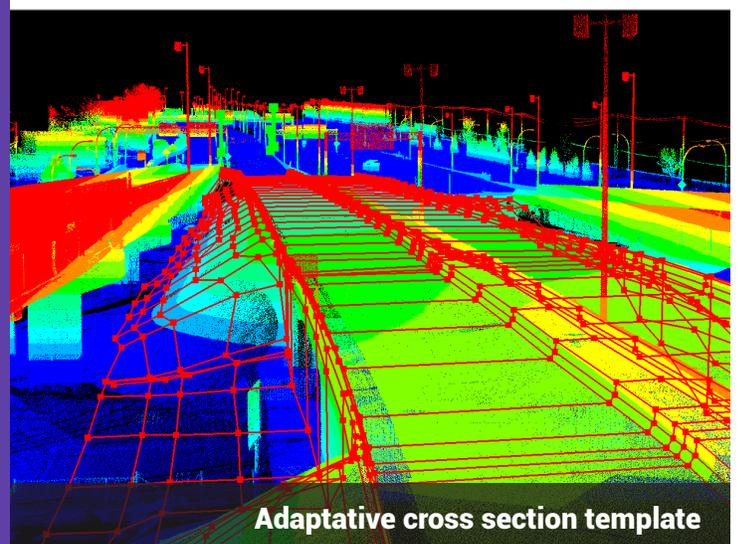
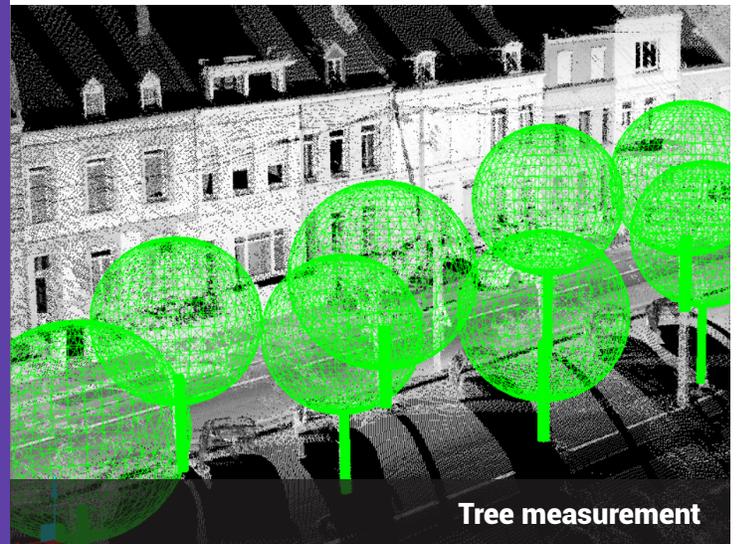
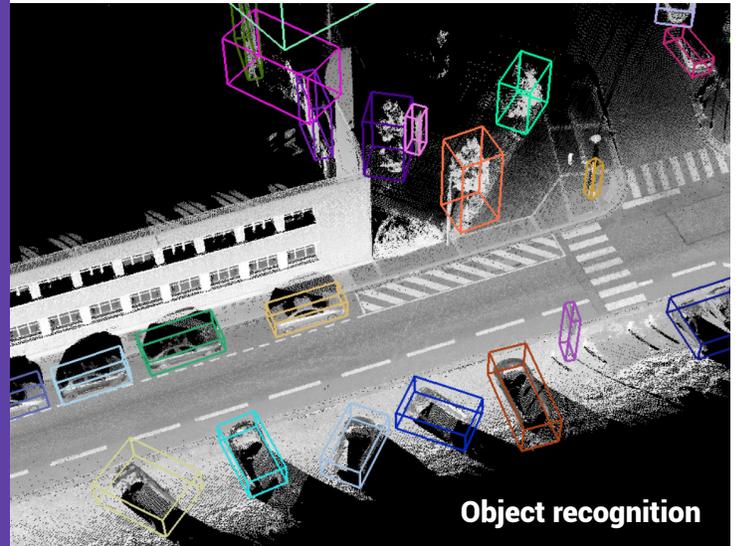
Maximize your budget with a complete software. VisionLidar can easily replace more than 4 traditional solutions. Simplify your point clouds, and eliminate unwanted points with this unique solution.



## Enhance your return on investment

Get the most out of your investment from the 3rd month of usage, thanks to the efficient workflow VisionLidar will help you acquire. Share your point cloud in a Web format (Potree), then view, measure, and annotate it.

# EXCLUSIVE CAPABILITIES



# FIT ANY INDUSTRY

CIVIL ENGINEERING

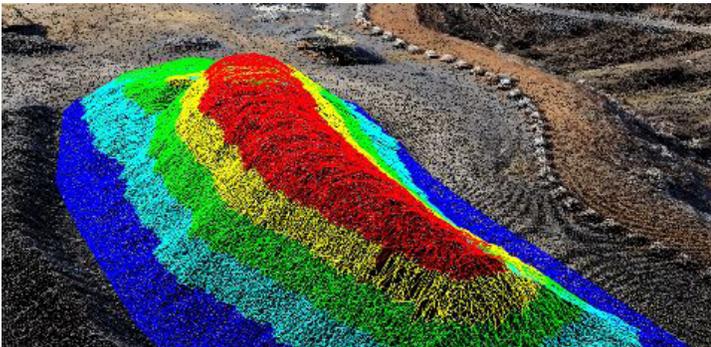
LAND SURVEYING

ARCHITECTURE

TRANSPORT

MINE & QUARRY

FORESTRY



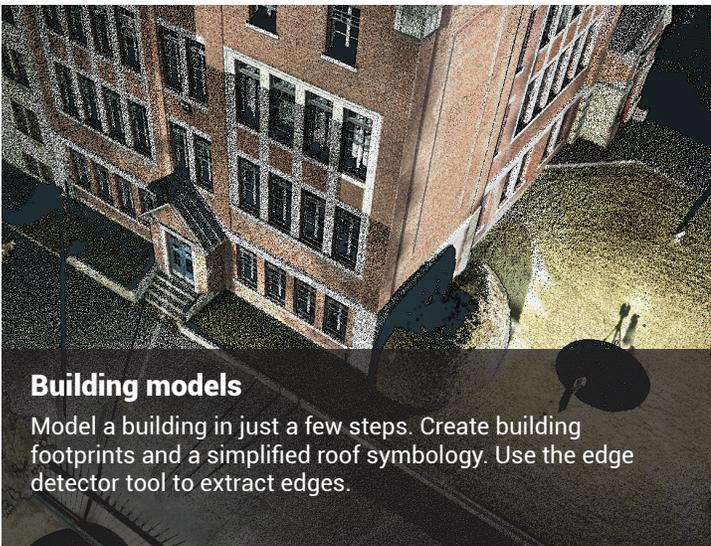
## Earthwork and Complex Volumes

Generate and export contour lines to .DTM, and use 4 different methods to calculate volumes.



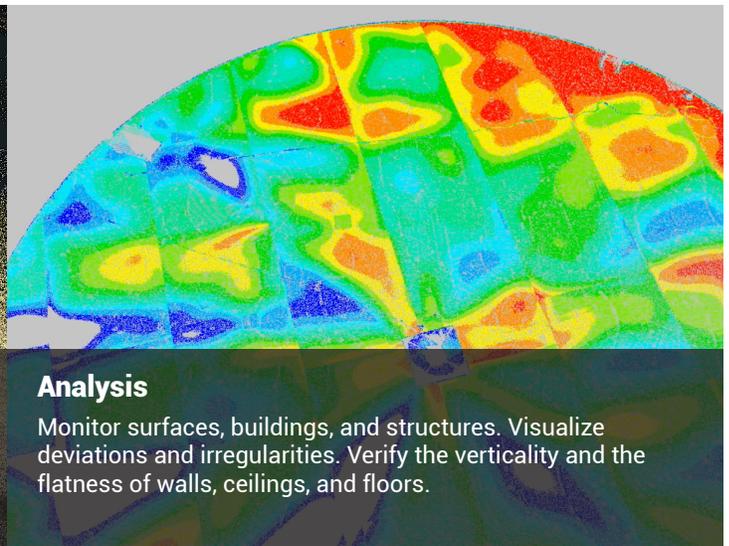
## Bare earth extraction

Extract bare earth surfaces from a point cloud, by automatically eliminating vegetation, buildings, cars, pedestrians, and other objects resulting from the mesh surface.



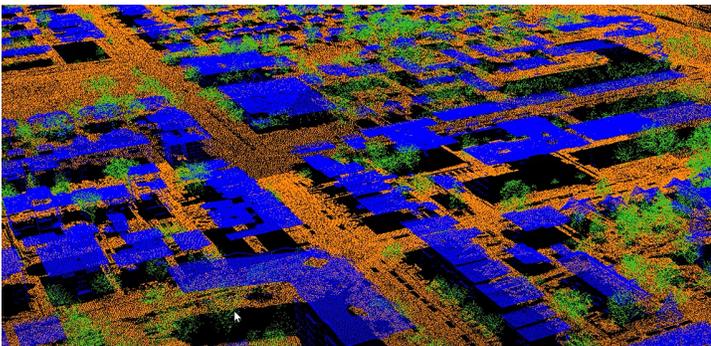
## Building models

Model a building in just a few steps. Create building footprints and a simplified roof symbology. Use the edge detector tool to extract edges.



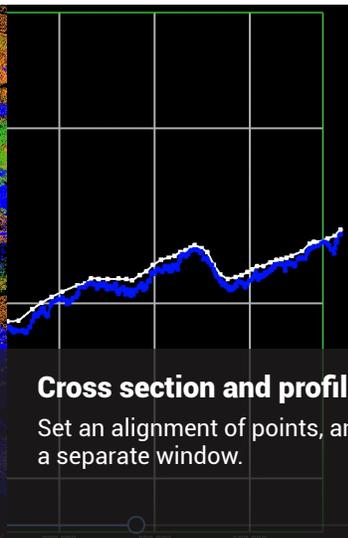
## Analysis

Monitor surfaces, buildings, and structures. Visualize deviations and irregularities. Verify the verticality and the flatness of walls, ceilings, and floors.



## Classification

Easily clean and classify your point cloud. Identify grounds, buildings, vegetation, and separate them into layers.



## Cross section and profile

Set an alignment of points, and visualize the cross section in a separate window.



## VisionLidar Suite

	STANDARD	PREMIUM	ULTIMATE
Import and export PTS, LAS, LAZ, E57, DXF, CSV			
Aerial, terrestrial and mobile data in the same project			
Point Cloud classification and segmentation			
Registration with least squares method			
View by RGB, intensity, normals, class, scan, wireframe, shading			
Grid simplification			
Intelligent 3D fence (inside or outside)			
Distance and angle measurements			
Normals, ground, building, vegetation and noise detection			
Color shading elevation with PDF reporting			
Surface management, TIN and mesh, contours			
Dynamic 3D profiles and cross sections			
Automatic tree measuring (Dendrometry)			
Twin surface inspection with PDF reporting			
Web viewing (export to Potree)			
Dynamic edge detection			
Fly through with video output to AVI			
Bare earth extraction			
Point management with PCode standards from DOT			
Cylinder detection			
Connectivity chain point management			
Alignment management with horizontal and vertical curves			
Edge detection			
Centerline, powerline and line intensity detection			
Building footprint			
Surface management with holes, breaklines			
Export to DXF, LandXML, VisionPlus database			
Alignment export to LandXML and VisionPlus database			
Chains export to DXF or VisionPlus database			
3D modeling for roads and tunnels			
Earthwork			
Surface and volume calculations			
Solid volumes for overhangs and verticals			
Intelligent simplification for aerial data			
Aerial classification management			
Connectivity with AutoCAD, Microstation, or BricsCAD			
Field data calculation from total station and GPS			
Least squares adjustment of field data			
Point and Chain group management			
Standards management for points, lines, chains, notes, photos, topology parcel, curve, point drawing			
Dynamic building siting			
DTM transformation to UTM, MTM, Lat, Long, NADs			
Least squares adjustment for points, lines, polygons, curves			
Alignment in 2D or 3D			
Combined scale factor for distances, surfaces, and volumes			
Ground and grid distances			
Multi-user database			

For more details, visit [geo-plus.com/visionlidar-point-cloud-software](http://geo-plus.com/visionlidar-point-cloud-software)



## Find out more!

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