



VisionLidar

Point clouds and 3D imagery at your fingertips



A COMPLETE POINT CLOUD SOFTWARE

Why VisionLidar?

Exclusive
Capabilities

Fit any Industry

VisionLidar
Suite

WHY VISIONLIDAR?



Complement your GIS CAD

Our plugin tool let users change the view angle, adjust image, walk through your 3D imagery with point cloud overlaid. Measure points, lines and areas based on the 3D point cloud or imagery. Measurement, lines and points can be overlaid into your preferred application (AutoCAD MAP, AutoCAD, Civil 3D, Arc/Gis, Microstation, Powerdraft, BricsCAD). In mobile scan it also publishes the trajectory and position of the camera.



Save time

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



Save money

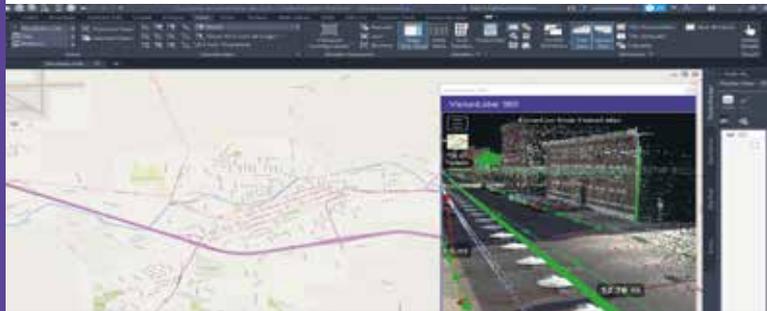
Maximize your budget with a complete software. VisionLidar can easily replace more than 4 traditional solutions. Simplify your point clouds processing and eliminate unwanted points with this unique solution.



Enhance your return on investment

Get the most out of your investment from the 3rd month of usage, thanks to the efficient workflow of VisionLidar. Create annotations and share your point cloud in a web format (Potree). Measure and calculate directly within any browser.

EXCLUSIVE CAPABILITIES



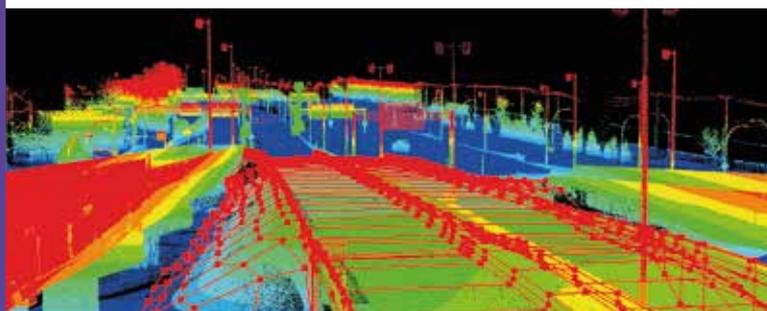
Plugin for AutoCAD MAP, AutoCAD, Civil 3D, Arc/Gis, Microstation, Powerdraft, BricsCAD



Object recognition



Tree measurement



Adaptative cross section template

FIT ANY INDUSTRY

CIVIL ENGINEERING

LAND SURVEYING

ARCHITECTURE

TRANSPORT

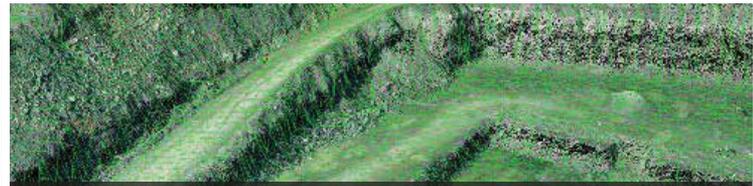
MINE & QUARRY

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.



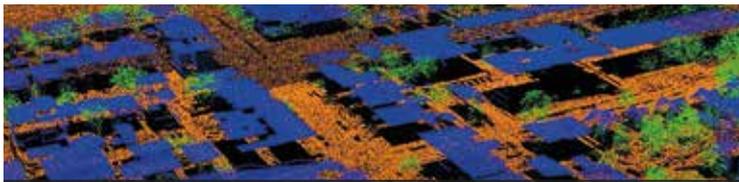
Scan to BIM

Modelize a building in just a few steps. **Scan to BIM, IFC, REVIT**



Cross section and profile

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



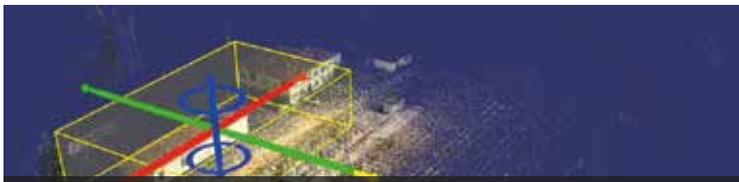
Classification

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



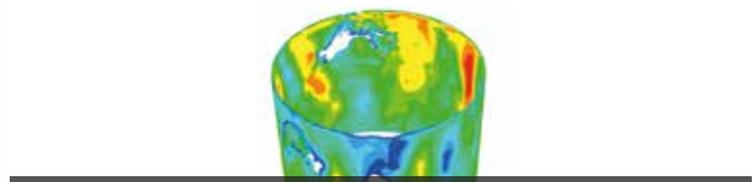
Blur and hide

Tools for blurring faces and license plates on public street or building interior. The first step is to run our algorithm to automatically detect plates and faces in batch process. This module run into each images and let user validate each plates and faces detected. Also let users identified new plates and faces to fulfill 100% blurred publication.



Clipping box

3D dynamic selection tool. Move, rotate and resize a selected section. Display only or hide a selected section.



3D Structure analysis

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



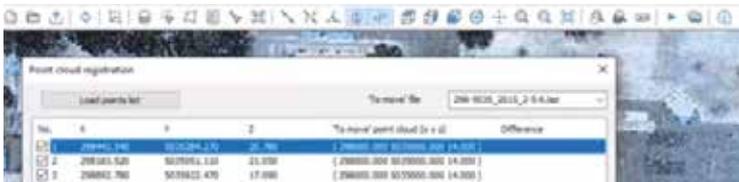
Railway vectorization

Automated tools, adaptive template for vectorization and automatic catenary detection.



Integrating 360° images

Overlaying 360° images on point clouds, perform photogrammetry, create and share spherical images.



Manual and automatic registration

Stitch any type of scans together. Create large and accurate datasets by picking control points.



Corridor manager

Road extraction, tin surfaces, classification.



Object detection and insertion

Accurate point picking, automatic classification and virtual land surveying.



Take measurement on 3D imagery only

VisionLidar let you create points, measure directly on two images

VISIONLIDAR SUITE



STANDARD

- * Import LAS, LAZ, E57, PTS, CSV, X3A, FLS, LSPROJ
- * Export to LAS, LAZ, E57, PTS, HTML
- * Dynamic viewing: zoom, pan, rotation, lock axis
- * Aerial, terrestrial and mobile scans can be combined in a project
- * Classification and segmentation of point clouds
- * Registration using least squares or using a list of points
- * View by RGB, intensity, normals, class, scans
- * View objects by wireframe or shading
- * Create extractions of elements
- * Grid simplification
- * Intelligent 3D fence (inside or outside)
- * Measurement tools (distance, angle, perimeter, area, elevation and path)
- * Building facade analysis with PDF reporting
- * Color shading of elevation with PDF reporting
- * Automatic plane detection
- * Surface creation (TIN) and bare earth extraction
- * Dynamic 3D profile view
- * Dynamic 3D cross-section view
- * Automatic tree measurements (dendrometry)
- * Web sharing (export to Potree)
- * Magnifier and edge locator
- * Fly-through with output to video in AVI format
- * Image capturing in JPEG or PNG format
- * Create polyline tool to create polylines freely or on a plane
- * Export to planimetric orthophotos (GTIFF)
- * Customizable keyboard shortcuts

PREMIUM (+Standard)

- * SQLite or Access (MDB) database connection
- * Point management using PCode standards from DOT or other
- * Point creation and selection
- * Cylinder detection tool
- * Chain and point connectivity management
- * Alignment management with horizontal and vertical curves
- * Edge detection (sidewalks, barriers, fence)
- * Centerline detection and detection of road markings by intensity
- * Road geometry extraction from intensity
- * Catenary detection (power lines)
- * Building footprint modelization and surface by section creation
- * Surface management (surface modification, add holes, add breaklines, etc.)
- * Adaptive 3D templates for modelization of roads and tunnels
- * Export surfaces to DXF, SHP, MID, LandXML and VisionPlus database
- * Export alignments to LandXML and VisionPlus database
- * Export chains to DXF, SHP, MID and VisionPlus database
- * Earthwork calculations (cut and fill)
- * Surface and volume calculations
- * Contour line creation
- * Intelligent simplification of aerial data
- * Rooftop detection for aerial data
- * Solid volumes for overhangs and vertical surfaces
- * Meshing for solid features
- * Export vector features to DXF, SHP, MID, GeoJSON, KML and LandXML
- * Corridor management for efficient processing
- * Annotations, measurements and spherical images exported to Potree
- * Overlay of spherical images on the point cloud
- * Colorize point clouds from spherical imagery
- * Create spherical images from the point cloud
- * Create survey points using photogrammetry
- * Automatic detection of objects from groupings of points (clusters)
- * Compare two scans with PDF reporting

ULTIMATE (+Standard & Premium)

- * Connectivity with AutoCAD, MicroStation, PowerDraft or BricsCAD
- * Field data calculation from total station
- * Field data calculation from GPS
- * Least squares adjustment of field data
- * Point group management
- * Chain group management
- * CAD standards management for points, lines and chains
- * Management of notes and photos
- * Management of parcels according to the topology
- * Dynamic building siting
- * Cogo functions
- * Import points from ASCII files
- * UTM, MTM, Lat/Long and other projection transformations
- * Curve management tool
- * Line intersection calculation tool
- * Least squares adjustment for points, lines, polygons and curves
- * Point and chain drawing management
- * Preferences for displaying surfaces, profiles, and sections
- * Alignments in 2D or 3D
- * Combined scale factor for distances, surfaces and volumes
- * Ground and grid distances
- * Multi-user database usage
- * Draw sectional and profile views directly in the CAD
- * Import existing vector data into VisionLidar
- * Advanced TIN editing capabilities

For more details, visit geo-plus.com/point-cloud-software/

Find out more!

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