

VisionLidar

Point clouds at your fingertips



MEASURE YOUR SURVEY DATA IN 3D FROM THE
COMFORT OF YOUR OFFICE !

Benefits

Main Features

Point Cloud
Usage

Specifications



Automatic Point Classification

Separate your points on different layers just like in your CAD.



Virtual Surveying

Generate your points and chains following any given standards to produce your plans and DTMs.



Multiple Data Sources

Merge multiple point clouds together, whether aerial, terrestrial or mobile.



Automatic Geometry Detection

Vectorize your data automatically : detect borders, trees, poles, cylinders, planes, breaklines, etc.



Dendrometry

Vectorize trees dendrometry, of surfaces, crown surface and trunk measurements.



Measurements

Angle calculations, distance, surface, and volume.



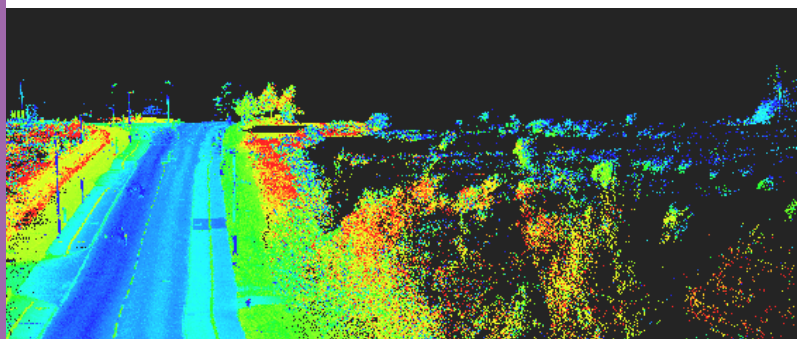
Adaptive templates

Create, export and modelize roads, chains, and tunnels in 3D.

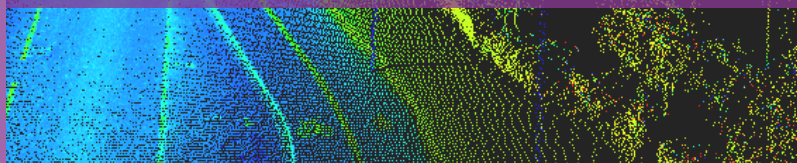
WHAT ARE THE BENEFITS ?

VisionLiDAR is made to work with aerial, terrestrial, or mobile Cloud Points. It allows automatic classification of buildings, vegetation, or natural terrains, thanks to unique algorithms, and other tools, like filtration and segmentation into 128 configurable layers.

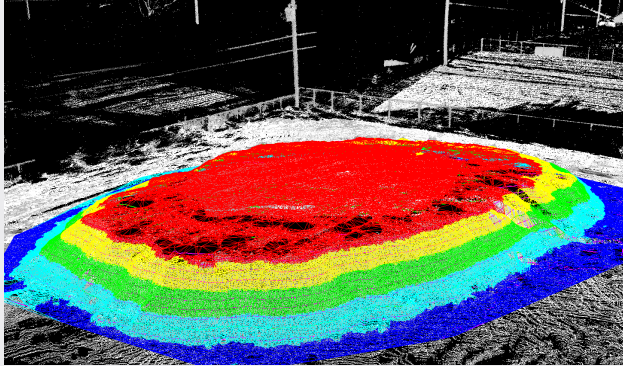
- Is a **stand-alone** software designed specifically for civil engineers and land surveyors.
- Allows data **importation** from any scanner and data **exportation** into any standard formats.
- **Vectorizes** Cloud Points into objects.
- Executes a **qualitative and intelligent** point cloud selection.
- Is an **effective graphical tool** that can process more than 25 billion points.
- Is the **perfect partner** for you CAD such as AutoCAD®, MicroStation®, and BricsCAD®.
- Enables **3D measurements** directly into the LiDAR image.
- Measures **distortions in 3D**.



MAIN FEATURES



VISUALIZE AND EASILY WORK YOUR POINT CLOUDS !

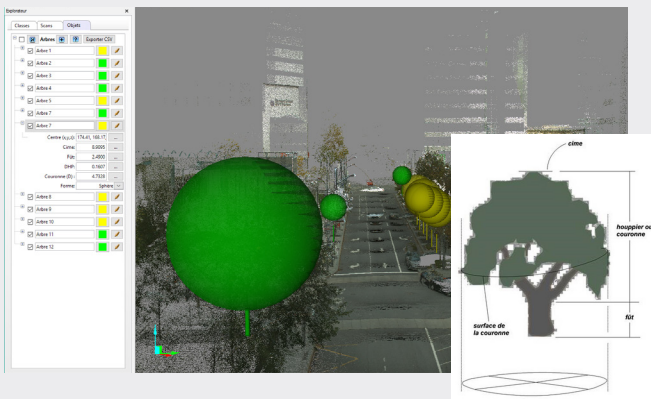


Digital Terrain Model Features

- Chains creation using any given survey standards
- DTM creation
- Point selection by cross section
- Contour lines, volumes, profiles, and sections

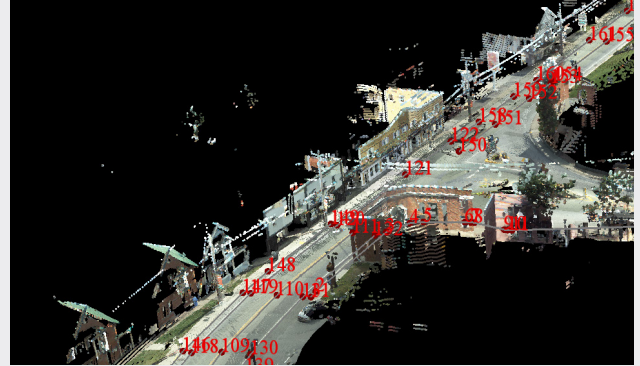
A powerful Viewer

- Allows viewing by cross section
- Represents your points by normal, color, intensity, elevation, class, or as the original file



Dendrometry

- Tree trunk automatic detection
- Tops, tree trunk, trunk height, crown, DBH (Diameter and Breast Height), Crown Surface measurements
- Species identification

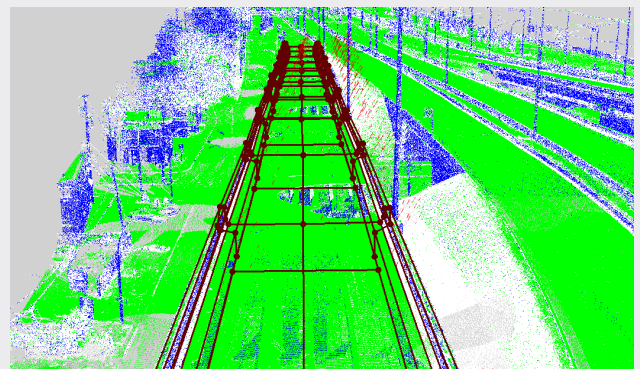


Creates Geometries From Point Clouds

- Automatically detects planes
- Detects and positions cylinders, pavement lines, and sidewalks.

Export Your Vectorized Data To CAD Format

- Vectorizes your point cloud in 2D and 3D
- DXF and CSV formats



Road Adaptive Templates

- Existing Templates Detection
- Sections by interval creation
- Dynamic sections edition

Specifications	
Source of Point Clouds	Airborne LiDAR, Outdoor TLS, Photogrammetric, Radar
Supported Systems	Windows 7, 8, 10
RAM [GB]	8
HD [GB]	100
GPU Usage	Yes
Processor (CPU)	64-bit
Stand-alone	Yes
External Environments	Access or Vision SQLite database
Input Formats	txt, pts, ptx, E57, LAS, LAZ
Output Formats	LAS, LAZ, E57, PTS, LandXML, CSV, DXF
Max. file size	25 billion points
Georeferencing	Yes
Automatic Objects Detection	Yes
Several Point Clouds Fusion	Yes
Zoom, Pan, Rotate	Yes
Fly-throughs	Yes
Adding Points	Yes
Removing Points	Yes
Point Reduction	Yes
Classification and Removal of Vegetation	Yes
Classification and Removal of Buildings	Yes
DTM Generation of Natural Terrain	Yes
3D Coordinates Extraction	Yes
Length and Height	Yes
Angle, Distance, Surface, Volume	Yes
CAD Integration	AutoCAD®, MicroStation®, BricsCAD®, PowerDraft®
CAD File Formats Integration	DXF, SHP
Permanent License	Yes
Annual Subscription Plan	Yes
Monthly Subscription Plan	Yes
Maintenance Plan	Yes

Would you like to find out more ?

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