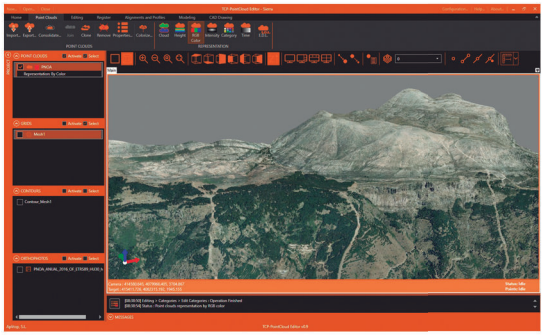
Tcp PointCloud Editor

Editing, filtering, and managing point clouds

Standalone application that allows you to display, edit and analyze clouds of millions of points, captured by fixed or mobile scanners, LiDAR technology or generated by photogrammetry applications.

Points management

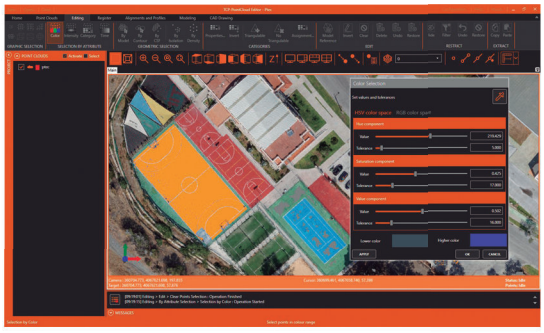
You can import point clouds in the most common formats on the market. Points can have attributes of color, intensity, time, and category, and be represented based on these properties. You can apply displacements, rotations, or transformations to clouds, as well as register them using control points.



Filtering and editing

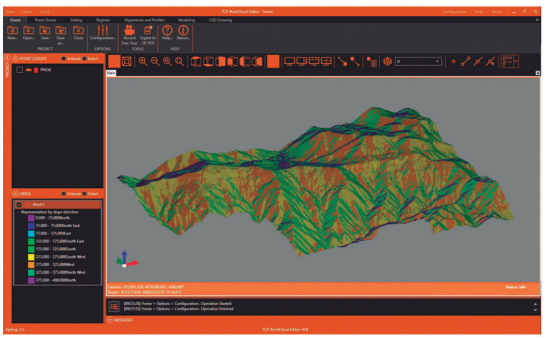
The application has tools for graphical selection of points by window, polyline, sphere... Selection by attributes such as color, intensity or category, make it possible to select a point and delete those that have similar properties. Geometric selection allows you to filter points by density, insulation, model, etc. The terrain filter helps determine the points that belong to the terrain.

The editing commands are applied to the selections of points, being able to delete, change in category, hide, extract them to a separate window, etc.



Digital model

With the point cloud you can create a surface or mesh and generate the contour lines. The symbology of models can be based on their elevations, slopes, orientations, shading or orthophotos. Meshes can be edited interactively or apply smoothing, peak removal, etc. You can also import and export surfaces and meshes.



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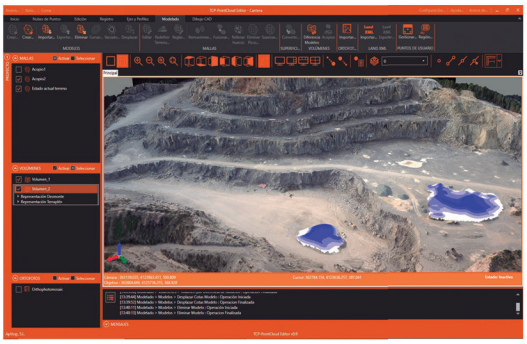
Profiles and volumes

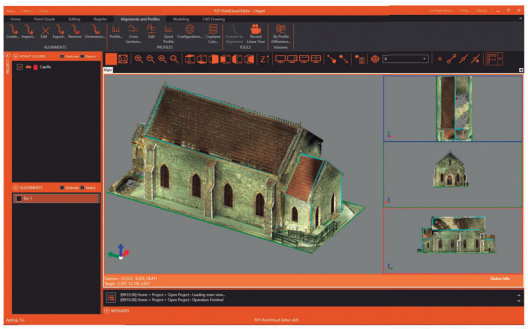
The application has tools to import alignments in LandXML and IFC format and calculate a quick profile from the point clouds or the model. It is also possible to obtain a longitudinal profile and cross-sections along an alignment. Top view sections are especially useful for BIM building projects.

Volumes of stockpiles defined by a polyline or layer can be quickly calculated, as well as surfaces and cut and fill volumes between models.



Utilities

The application includes a simple CAD that allows you to draw on different layers, using as references the point cloud and other objects, and you can also import and export DXF and DWG files. Points, models, alignments and drawings can be exported to 3D PDF and video, having previously defined the route.



Requirements (1)

Point clouds	Text (TXT/XYZ), ARC/INFO (ASC), ASTM E57 (E57), FARO (FLS/FWS), LEICA (PTS/PTX/XCF), LIDAR (LAS/LAZ), MDT (MLL/MDE/PUN), Point Cloud Data (PCD), Polygon File Format (PLY), RECAP (RCS/RCP), RIEGL (RDBX), TOPCON (CL3/CLR)
Meshes and surfaces	IFC, LandXML (XML), GeoTIFF (TIF), TcpMDT (MDE, MLL, SUP), Esri Ascii grid (ASC)
3D Objects	IFC, FilmBox (FBX), Wavefront .OBJ (OBJ)
CAD drawings	DXF, DWG
Orthophotos	GeoTIFF (TIF), ECW, JPEG (JPG), JPEG2000(JP2)
Operating system	Windows 10 (64-bit)
Processor	Intel i5 or higher
Memory	Minimum 16 Gb
Hard disk	Recommended SSD
Graphics card	Minimum resolution 1280x1024 pixels Compatible with OpenGL 4.0 or higher Minimum dedicated video memory 2 Gb, recommended 4 Gb or more

(1) This information is for guidance only. More detailed information about Tcp PointCloud Editor requirements on www.aplitop.com.

Reseller

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