VIRTUAL GEOMATICS Smart LiDAR™

LiDAR Explorer Lite™

Product Overview

The VG4D Explorer lite is a standalone, robust tool designed specifically for the customers interested in LiDAR/ Point cloud visualization, mining and volumetric analysis. The Explorer Lite is built to handle different types of LiDAR data and the underlying proprietary LiDAR Engine is capable of handling massive datasets (billions of points).

- Complete 3D Visualization of vast point cloud data, even multiple strips at a time

- Ability to perform Volumetric Analysis and get the Cut and Fill volumes on-the-fly

- Generate Cut to Fill ratios, Maximum and Average Cut and Fill depths

- Calculate the Area and Perimeter of AOI

- Ability to export the Volumetric information as a Text report and an attributed Shape file

- Ability to visualize vector datasets (polygons and polylines)

- Various visualization options (By Elevation, Classification, Intensity, RGB Color etc.) for LiDAR

- On-the-fly Triangulation Capability

- On-the-fly Profile View Capability

- Contour visualization and export capability

- 3D line collection feature to extract vector components quickly

- QA/QC Red Lining Capability

- Ability to pick/select area of interest polygons/points

- Intelligent panning of complete strip

- Export options to convert AOI points to LAS or ASCII format

- Change detection visualization

- Slope Analysis (Aspect)

- Flexible class selection and grouping capability

- Measurement tool (3D and Cross section)

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