

What's New in ENVI LiDAR 3.2 SP1

Viewshed Analysis

- The new Viewshed Analysis tool enables you to determine features that can be seen from one or more observation points. You can:

- Calculate viewshed on-the-fly as you add, move, and edit observer points
- Interactively include and exclude selected observer points from the calculation
- Show what is visible for any observer point or all observer points
- Import and export observer points
- Export the Viewshed Analysis to a raster
- Launch the Viewshed Analysis raster in ENVI or ArcMap™

- The DSM is now generated when you create a project and is available as a layer that can be displayed in the standard view and the QA Mode view. Based on the format of the LAS file, the DSM layer can be colored by height, intensity, or RGB.

API Methods

- Three new methods have been added to the ENVI LiDAR API:

- E3De::CreateLidarFromSubrect: Creates a project from a spatial subset of LiDAR data
- E3De::GetViewExtents: Queries the view extents of the magenta rectangle shown in the Navigate window
- E3De::SetViewExtents: Sets view extents

multi-core Processing

- Multi-core processing has been enhanced to remove the 8-core limit. By default, all available cores will be used, or you can set the value to be a subset of the cores available on the processing machine. Multi-core processing has also been added as a property in the ENVI LiDAR API. Updates include:

- The CPU Cores setting was enhanced and moved from the Preferences dialog to the Production Parameters Tab.
- The NUMBER_OF_CORES property was added to E3DProductionParameters.

Building Perimeter Shapefile Attributes

- The generated building perimeter shapefile (buildings_perimeter.shp) now includes attributes for Area, Perimeter, Length, Width, MinHeight, MaxHeight, and Orientation.

File Support

ENVI LiDAR file support has been updated to include the following:

Input files:

MrSID LiDAR files

Export files:

COLLADA 1.4.1 and 1.5.0

Google Earth KMZ