

LIDAR Analyst 4.1 Highlights



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- LIDAR Analyst 4.1 now provides direct point cloud LIDAR data processing and classification which
 - enhances our existing workflow for the extraction of 3-D terrain and cultural features from airborne
 - LIDAR. New and important capabilities in this release include:
 - Import LIDAR data returns in a variety of point feature and gridded data formats including .LAS, ASCII, GeoTIF and ArcGRID.
 - Output terrain and culture features: bare-earth (raster), buildings (vector), trees (vector), forests (vector)
 - Classify LAS point clouds based upon user settings and LIDAR Analyst extractions.
 - Enhanced interface for access to parameter settings which control the accuracy and level of detail in extraction of terrain and culture features.
- Ability to process elevation data that is in point cloud format (LAS) or a digital elevation model (DEM: raster)
- Ability to process data in different horizontal and vertical map units. Previous version had problems processing data in units other than meters.
- Tools to import point clouds stored in a text or shape file.
- Simple user interface for extractions, with the ability to bring up an advanced version of the User Interface which allows for enhanced control over feature extraction settings.
- Improved bare-earth extraction algorithm including faster processing, allowing for much larger data-sets and improved accuracy.
- DEM editing tools have been improved.
 - Bare-earth modification tools allow the user to add and remove points as well as regions used for bare-earth generation.
 - DEM editing tools allow the user to modify DEMs by defining regions to apply various DEM modification processes.
- Improved building extraction algorithm: Faster, more accurate and allows for more customization of extraction parameters.
- New building modification tools
 - Extract Multi Component Buildings
 - Extract Complex Buildings
 - Building Reshape tool (automatically updates z-values and attributes after edits)
 - Building Auto-Split tool (automatically updates z-values and attributes after edits)
 - Courtyard Cleanup tool (automatically updates z-values and attributes after edits)
- Improved tree and forest extraction algorithm: Faster, more accurate.
- Enhanced analysis tools for visualizing LIDAR data.
- Ability to crop LAS point clouds.