

# LiDAR Module

Color Lidar by Return Number



Toolbar Extension for Global Mapper

## ADVANCED LiDAR PROCESSING FOR GLOBAL MAPPER

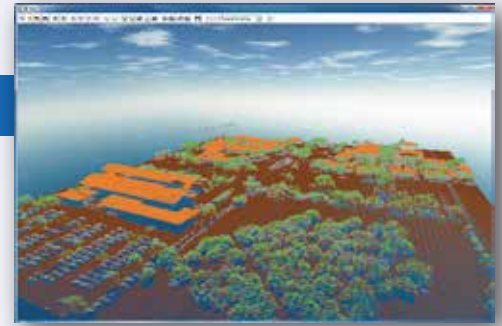
Global Mapper is a robust and inexpensive GIS application that combines a comprehensive array of spatial data processing tools with access to an unparalleled variety of data formats.

Coinciding with the rapidly expanding availability of LiDAR data, the LiDAR Module supplements the standard version of Global Mapper with a collection of powerful point cloud processing tools and superior terrain creation capability. This affordable add-on provides numerous advanced LiDAR processing tools, including automatic point cloud classification, feature extraction, cross-sectional viewing and editing, dramatically faster surface generation, and much more. At a fraction of the cost of comparable applications, it is a must-have for anyone using or managing LiDAR data.

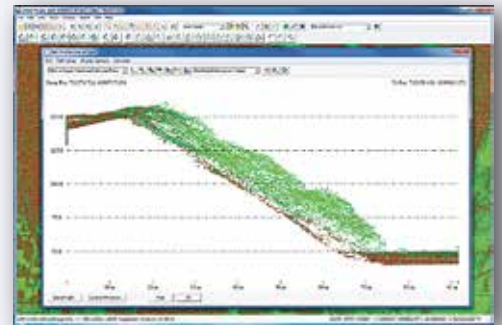
### Additional functionality offered in the LiDAR Module includes:

- A convenient LiDAR Toolbar for easy access to editing and analysis tools
- Multiple gridding options for faster DSM or DTM generation
- Efficient access to point cloud files containing a billion points or more
- Automatic point classification tools that automatically distinguish building, ground, and vegetation points in unclassified layers
- Feature extraction functionality to automatically create 3D building footprints and trees
- Cross-sectional rendering using Global Mapper's Path Profile tool for viewing and editing the point cloud in a vertical perspective
- Advanced filtering options to efficiently remove non-essential points
- LiDAR scripting commands for streamlining workflow
- Point colorization from underlying imagery offering photo-realistic point cloud rendering in Global Mapper's 3D Viewer
- Support for reporting LiDAR statistics
- Support for importing and exporting the most common LiDAR formats

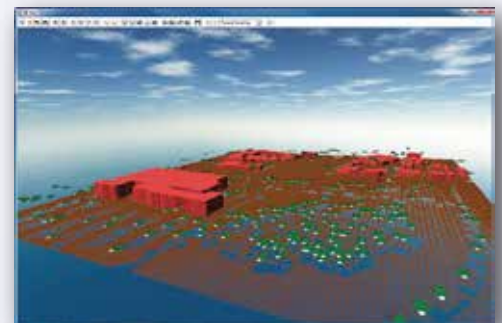
The Global Mapper LiDAR Module is embedded in the standard version of the software and is activated using a license file or order number. As with the full version of Global Mapper, the LiDAR Module can be activated on a trial basis by requesting a temporary license. For more information, contact [info@bluemarblegeo.com](mailto:info@bluemarblegeo.com).



• Auto-Classify Buildings and Trees



• Path Profile Tool



• Extracted Buildings and Trees

## RESOURCES

- Free Monthly Webinars
- Training Classes - Public, Online & Custom
- Getting Started Guide
- Academic Curriculums
- Social Media User Groups

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# BLUE MARBLE GEOGRAPHICS

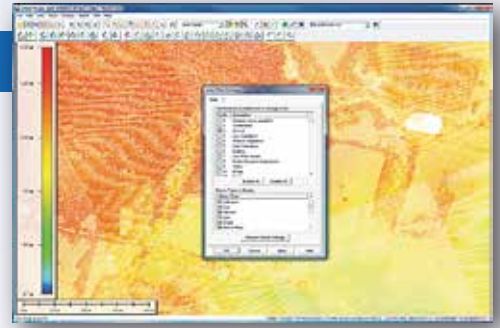
MIND THE GAP BETWEEN WORLD AND MAP

77 WATER STREET, HALLOWELL, MAINE 04347 USA  
800.616.2725 / +1.207.622.4622 / FAX: 207.622.4656  
44° 17' 15.40" N, 69° 47' 24.55" W, WGS84

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## DO I NEED THE LIDAR MODULE?

The standard version of Global Mapper offers some basic LiDAR processing functionality including importing, exporting, and gridding of LiDAR datasets. With the addition of the LiDAR Module, the ability to fully utilize point cloud data is significantly improved. The following table illustrates the key functional enhancements that are enabled with the LiDAR Module.



### Software Comparison

|  | Global Mapper | LiDAR Module |
|--|---------------|--------------|
| Read/Write Support for LAS/LAZ files   | •             | •            |
| Support for working with over one billion points [64-bit only]                         | •             | •            |
| Elevation Grid Creation by Triangulated Irregular Network                              | •             | •            |
| Elevation Grid Creation - Binning Terrain Model  |               | •            |
| Elevation Grid Creation - Binning Average Height Method                                |               | •            |
| Elevation Grid Creation - Binning Surface Model Method                                 |               | •            |
| Easy Filtering for separating Point Classes  |               | •            |
| One-Button Point Cloud Colorization from Raster Imagery                                |               | •            |
| One-Button Point Reclassification tools  |               | •            |
| Auto Ground Point Classification   |               | •            |
| Display of LiDAR Points in Path Profile (Side-View)                                    |               | •            |
| Cross-Section Point Selection/Editing tools (via Path Profile Tool)                    |               | •            |
| Render Point Cloud by Elevation Shader   | •             | •            |
| Render Point Cloud by RGB embedded in point cloud                                      | •             | •            |
| Render Point Cloud by Intensity  | •             | •            |
| Render Point Cloud by Classification   | •             | •            |
| Render Point Cloud by Return Number  | •             | •            |
| Render Point Cloud by Point Index  | •             | •            |
| Render Point Cloud by Point Source ID  | •             | •            |
| Render Point Cloud by Height Above Ground  |               | •            |
| Export LAS files using Height Above Ground   |               | •            |
| Ability to interactively change rendering method from Toolbar                          |               | •            |
| Support for Leica PTS format   |               | •            |
| Ability to create custom keyboard shortcuts for reclassification                       |               | •            |
| Search points by Height Above Ground   |               | •            |
| Ability to manually adjust elevations in entire point cloud                            |               | •            |
| Scripting ability to calculate statistics for Point Cloud Data                         |               | •            |
| Ability to transform point cloud coordinates (including rectification)                 |               | •            |
| Ability to filter selected LiDAR points by elevation/color range                       |               | •            |
| Ability to reproject LiDAR point clouds  | •             | •            |
| Ability to crop point clouds   | •             | •            |
| Automatically classify building and tree points from a raw Lidar point cloud           |               | •            |
| Extract building outlines from classified LiDAR point clouds                           |               | •            |
| Extract tree points/areas from classified LiDAR point clouds                           |               | •            |
| Export LiDAR points within elevation range   |               | •            |
| Filter points applied in gridding process  |               | •            |
| Create grid based on intensity rather than elevation                                   |               | •            |
| Create grid from heights above ground rather than elevation                            |               | •            |
| Color LiDAR point clouds by the difference in height between the first and last return |               | •            |