Key Features & Benefits

- Automated lidar rectification algorithms maximize accuracy of airborne and mobile surveys
- Optional ground control input to lidar rectification algorithms for absolute accuracy analysis
- Automated boresighting: Calibration and boresighting routines for corridor and wide-area survey projects
- Batch processing for large, multi-site projects
- Parallel and distributed processing minimizes processing time
- Access to an extensive database of geodetic conversions
- Compatible with many legacy ALTM and Lynx Mobile Mapper models
- Accuracy reports, plots and graphic comparisons

Optech Lidar Mapping Suite (LMS)

The processing and output of accurate point cloud data has traditionally been one of the biggest costs associated with airborne and mobile lidar surveys. Given stringent accuracy requirements, large project areas and uncommon coordinate systems, the efficient generation of verifiably accurate lidar files ready for information extraction is crucial to the overall success of the project.

Optech LMS Standard Edition

Optech LMS exists for one purpose: To maximize and quantify the accuracy of collected data while minimizing the associated cost in time, money and complexity, even on high-volume production projects. As a result, Optech LMS was designed with speed and automation as its foundation. Simply input a raw lidar file, and an INS trajectory, and Optech LMS will process and output high-accuracy data in a user-selected coordinate system with quantified accuracy metrics. Key production utilities such as batch processing, multi-node processing and automated coordinate conversions also help to process large projects cost-effectively by minimizing the user interaction required.

Optech LMS Professional Edition — A Revolution in Lidar Efficiency

Lidar rectification, available in Optech LMS Professional Edition, is based on over a decade of research and development and presents a breakthrough for airborne and mobile surveying. Using complex optical and mathematical models, Optech LMS Professional rectifies lidar data files to such a level of accuracy and quality that they require no further refinement. This minimizes processing time and maximizes efficiency. The user can verify this accuracy with a number of reporting capabilities including reports, plots, graphs and visual analysis tools. Coupled with its robust and field-proven algorithms, Optech LMS Professional is the key to delivering accurate and consistent results every time, all the time.

Feature	Standard Edition	Professional Edition
Geodetic Conversion	YES	YES
Batch Processing	YES	YES
Accuracy Reporting	YES	YES
Parallel Processing	YES	YES
Lidar Rectification with GCP Support	NO	YES
Distributed Processing	NO	YES

Lynx Building Survey (top view)

Automatically maximize point cloud accuracies using LMS Professional and rigorous least squares method.