

Lidar/camera Flight Management System

A new flight management system, Optech FMS, is available for the Optech line of ALTM airborne laser terrain mappers and digital mapping cameras. Based on a real-time point cloud generator, Optech FMS is a huge leap forward in data collection efficiency and in-air confidence.

By computing real-time XYZI geocoded points, Optech FMS can determine true coverage in the air irrespective of terrain conditions without the time-consuming stage of on-the-ground post-processing. Optech FMS has the unique ability to store real-time point clouds as LAS files, giving users the option to deliver high-resolution topographic data immediately upon landing. Increased real-time positioning accuracy is made possible by using the ALTM's OmniSTAR-equipped GPS receiver, which offers real-time differential correction, a standard feature in the ALTM product line.

Other standard features include independent flightline parameter and sensor control; simultaneous DEM-based mission planning of lidar sensor configurations that can include up to four metric mapping cameras; on-the-fly mission planning via a real-time fixed-endlap camera trigger mode; independent camera trigger modes including fixed time, fixed distance and fixed geographic position; and mission planning that supports both nadir and oblique camera orientations.

<https://www.gim-international.com/content/news/lidar-camera-flight-management-system>
