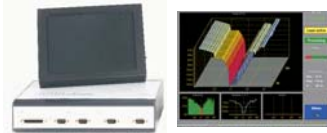


LiteMapper - Components Overview

Sensor Management System

The LMcontrol manages and controls the LIDAR unit during airborne missions. The high resolution touch screen display provides a comfortable graphical user interface.



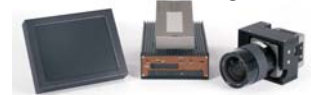
Airborne Laser Scanner

LiteMapper consists of the laser scanner types LMS-Q240 (LiteMapper 2400) or the new LMS-Q560 (LiteMapper 5600) with full waveform processing of Riegl.



DigiCAM - Medium-format Airborne Digital Camera

The DigiCAM system is based on a professional & calibrated high-resolution camera with 39 Mega pixels. The system is available with color (RGB) or color-infrared (CIR) filters and a variety of calibrated lenses with different focal length. The DigiCAM integrates perfectly with the LIDAR system.



CCNS Computer Controlled Navigation System

The CCNS4 is the guidance and flight management system for aerial surveys with an integrated 12-channel L1 GPS receiver and a L1/L2 GPS antenna. The system is operated easily via its Command & Display Unit.



AEROcontrol DGPS / IMU System

AEROcontrol is the solution for the precise determination of position/height and attitude of the laser scanner and camera. AEROcontrol is based on differential GPS (DGPS) and an Inertial Measurement Unit (IMU-IId) consisting of fibre-optic gyros and a raw data rate of 256 Hz.



WinMP Mission Planning & Documentation Software

- automatic creation of flightlines for tracks or area polygons
- graphical and numerical input
- ASCII and DXF import/export
- planning on top of raster & vector maps
- user defined reporting
- support for digital terrain models (DTM)



RiWorld and RiAnalyze Software

RiWorld for coordinate transformation of airborne laser scanner data. RiAnalyze for airborne data processing.

TerraScan TerraModeler TerraMatch

TerraScan is the dedicated software solution for manipulation, viewing, and classifying LIDAR data. TerraModeler is a full featured terrain modeling application for creating digital terrain/surface models (DTM & DSM). TerraMatch for automated correction of LiDAR data.

AEROoffice Post-Processing Software

AEROoffice is IGI's data handling and post-processing software for the AEROcontrol system. It provides all functions and tools necessary for handling, Exterior Orientation (EO) calculation and quality control.

