

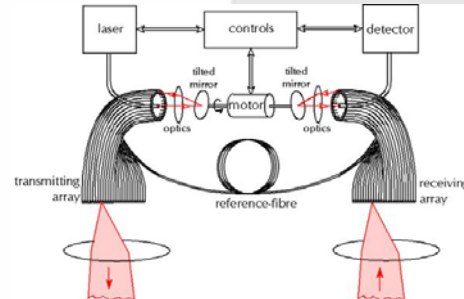
TopoSys North America

TopoSys Now Supporting GIS Providers in North America



Open for business in April 2004, TopoSys North America sells and supports TopoSys' Falcon Lidar Sensor System in the United States, Canada and Mexico, backed by the engineering and technical expertise of the manufacturer, TopoSys GmbH, Germany.

Falcon's innovative design – 128 optical fibers in a fixed geometric orientation, combined with 83kHz laser pulse rate and TopPIT® mission planning and post-processing software – enables fast production of high resolution Lidar maps ideal for urban areas, corridors and forest tracts. The optional RGB/NIR line scanner provides spectral imagery, and mounting both sensors on a rigid carbon fiber plate with a high-precision inertial measurement unit virtually eliminates need for periodic recalibration.



To demonstrate the Falcon's advantages in real world applications, TopoSys NA offers geospatial information services companies 'turnkey' mapping services, using the latest Falcon II System. Service levels range from collection of point cloud data and training in use of TopPIT software, allowing you to do the rest, to a complete turnkey mapping deliverable that slots into your project for the end customer, whether power company, pipeline operator, municipality, forestry enterprise or other end user of GIS product.

TopoSys NA Supports you, the geospatial information services provider, and helps you to better serve your customer, the ultimate consumer of GIS products and services.

"Falcon II" Optical Fiber-Based Lidar Sensor System for Airborne Mapping

The Falcon design originated in the laboratories of Dornier GmbH, a leading German aerospace firm, where researchers devising laser-based systems to detect collision hazard recognized the potential for airborne mapping, and spun out the technology in 1995 to a purposely-formed TopoSys GmbH.

Attaining new heights of data precision and reliability drove the design of the Falcon and resulted in a sensor system that collects and processes lidar data with exceptional fidelity and speed.

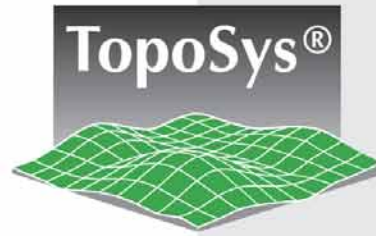


Superior data quality results from rigid orientation of the optical fiber scanner complex, which ensures precise beam deflection, and an 83kHz laser pulse rate that affords high measurement density – a hit every 25cm along the flight path at typical groundspeeds.

A narrow 14° field of view further enhances data quality, and when combined with the precisely repeated scan pattern and high measurement density, much reduces the pre- and post-processing required, more than compensating for the extra flying involved.

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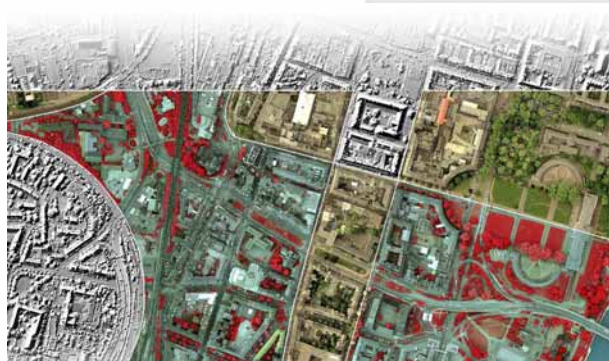


What it Means to Operate the Falcon II

- Customer satisfaction – Your customers gets the best lidar data that money can buy at a price no higher, quite possibly lower, than data sets of lesser quality.
- Consistent profitability – You, as operator of a Falcon II or as a turnkey services client of TopoSys NA, complete and deliver a project on time and on budget to your customer, so you earn what you thought you would when you started.

Technical Parameters of the Falcon II

- Scanner made up of 128 optical fibers in a fixed orientation and a 'dither' mechanism to make side-to-side 'wave' pattern on ground
- 83kHz laser operating at a wavelength of 1560nm
- 1,600m maximum flight altitude
- No periodic calibration required
- 14-degree field of view; 1:4 strip width to flight altitude
- Laser pulse duration of 5 nanoseconds; fast detection of first and last echoes for 1m resolution between echoes (option to record up to nine echo returns)
- Optional RGB/NIR line scanner available; true orthographical digital imagery
- In-flight operator panel for real-time mission control; TopPIT software package



TopoSys GmbH

TopoSys GmbH, founded 1995, manufactures the Falcon System in Biberach, Germany, and currently operates three Falcons for high-precision mapping projects throughout Europe.

TopoSys' first generation scanner, Falcon I, entered service in 1996. With the operational experience gained, TopoSys engineers developed an improved version, the Falcon II, which first saw duty in 2000. Refinement continues, with enhancements to the TopPIT software suite being introduced regularly.



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