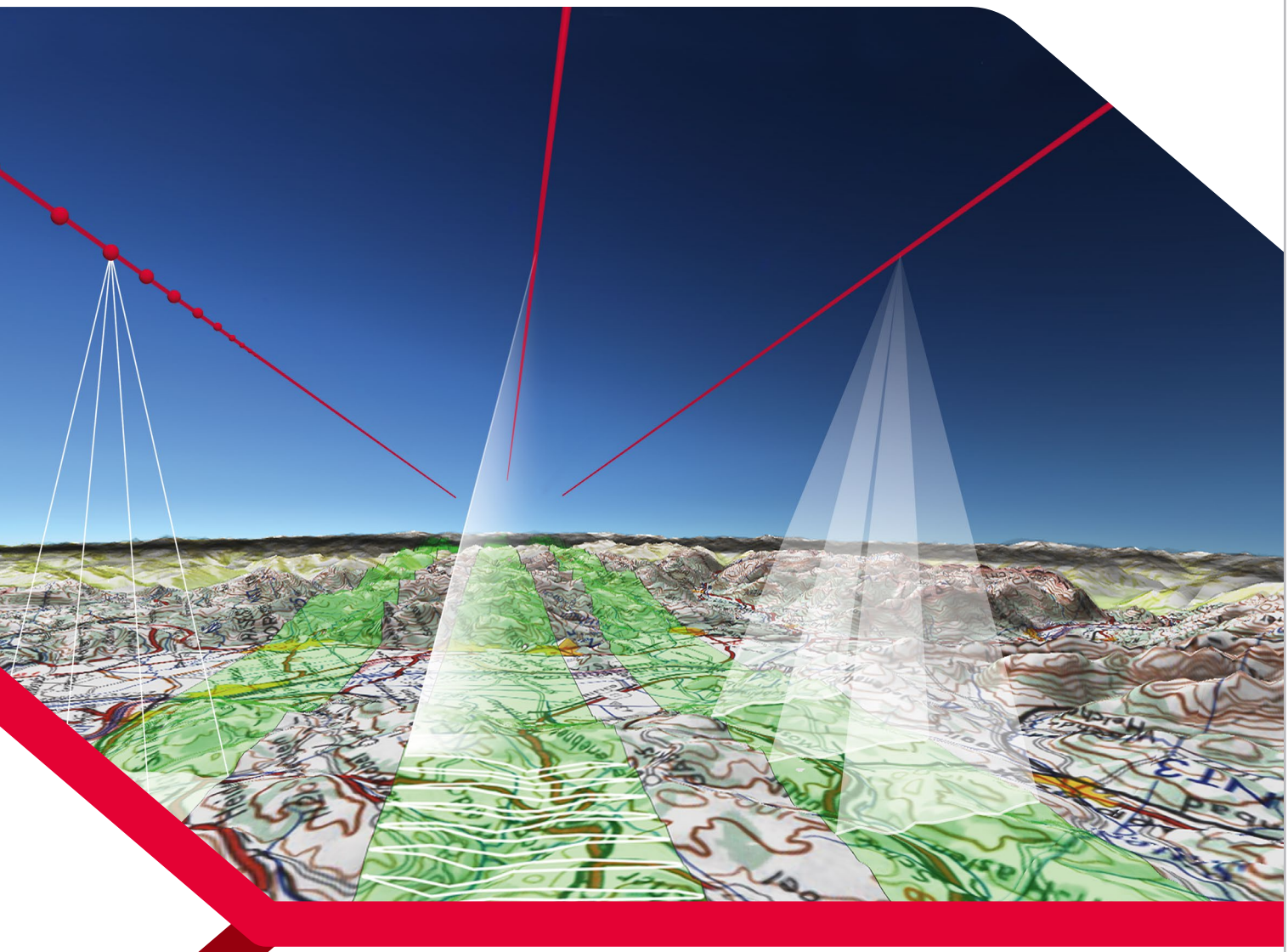
Leica GEOSYSTEMS

Mission Planning & Flight Execution

Make every flight count



HEXAGON

Leica MissionPro

Mission planning & evaluation

Effortless and immersive 3D mission planning across the globe

Leica MissionPro is the mission planning software for all Leica Geosystems airborne sensors across multiple product generations. The unique 3D virtual globe interface and the advanced computation algorithms simplify and speed up your mission planning.

Generate effective flight plans by selecting area, sensor and acquisition parameters. Evaluate the mission quickly and thoroughly right after execution, regardless of project size. Evaluate your flights, run quality control, prepare reporting and manage projects.

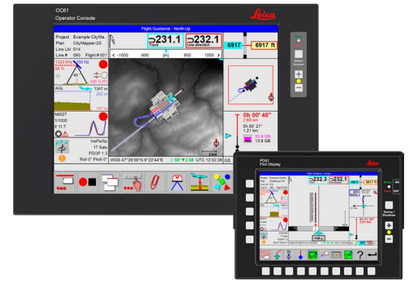
Leica FlightPro

Flight management & sensor control

Cut data acquisition costs by increasing your flight productivity

Leica FlightPro is a state-of-the-art flight management and sensor control system that makes surveying flights more effective and effortless for Leica Geosystems airborne sensors across multiple generations and sensor types.

Flight guidance, sensor configuration and release, system monitoring and logging are part of an integrated and complete workflow that increases productivity. The inflight sensor and system quality control features will significantly decrease your data acquisition cost.



One workflow for multiple sensors
- Sensor-independent solution to plan for LiDAR, frame and line sensors
- Multisensor imaging and LiDAR planning optimised per flight line

Cost estimation & flight evaluation
- Estimate project cost during planning
- Graphic evaluation and flight comparison with the original plan
- Immediate postflight assessment

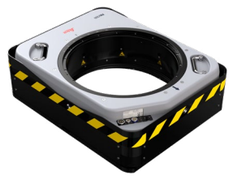
Reduce training & enhance productivity
- Parameter specification for automatic and accurate computation of blocks, corridors and single flight lines
- Import and export of common GIS data formats
- Algorithms use local DTM and global SRTM/GMTED2010 data
- Base maps provided by Web Map Service

3D virtual globe view
- 3D flight planning like the pilot sees it
- Straightforward mission planning over difficult terrain, by scaling from whole globe to frame view with a single scroll

Database to project management
- Scalable database architecture for flexibility and integrity in the planning process
- SQL database stores past and current mission information for multiple users

Common sensor platform

Leica Geosystems is the go-to provider offering imaging and LiDAR solutions based on common sensor software and system peripherals. Users can share components and operator and pilot interfaces between systems for easy and consistent installation across all airborne sensors, providing synergies in ground handling, workflow efficiency and operator training.



The Leica PAV200 gyro-stabilised sensor mount is a key component of the common sensor platform. Together with the Leica OC61 Operator Console, the Leica PD61 Pilot Display and the mission planning and flight execution workflow, it completes the system peripherals.

Increased productivity
- Automatic configuration and recording to flight plan, environmental factors and flight conditions
- Monitoring, logging and reporting of GNSS/IMU quality, system health and completeness of the project
- Flight user log entries appended to data

Optimised flight guidance
- Real-time navigation information from GNSS/IMU system for accurate sensor control and flight path and flying height (AMSL or ALT-AGL) guidance
- Background display of raster maps, shaded relief, elevation coloured DTM data, vector maps, ground control points, location and reference stations

Shorter & more efficient flights
- Inflight evaluation for quality control
- Marks parts of a flight line that have incomplete or poor quality data
- Takes previous flights into account
- Real-time coverage on DTM

Reduced stress on flight crew
- Independent view and optimisation of operator and pilot interfaces
- Clear icons and quick navigation in menu options for easy inflight handling
- Included simulator software to train operators and pilots on the ground

Leica GEOSYSTEMS

With more than 200 years of history, Leica Geosystems, part of Hexagon, is the trusted supplier of premium sensors, software, and services. Delivering value every day to professionals in surveying, construction, infrastructure, mining, mapping, and other geospatial content-dependent industries, Leica Geosystems leads the industry with innovative solutions to empower our autonomous future.

Learn more at leica-geosystems.com

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,800 employees in 50 countries and net sales of approximately 5.4bn EUR.

Learn more at hexagon.com

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