



Phoenix LiDAR's SpatialExplorer 7 software suite delivers a robust start-to-finish data acquisition and processing workflow where the user is in control.

The expandable SpatialExplorer suite from Phoenix LiDAR is built to ensure that your data acquisition is a success. From mission guidance to real time point clouds and easy field QC we leave nothing to chance when it comes to data collection.

For full control over each step of data post processing this desktop software has the professional tools you'll need. LiDARSnap and CameraSnap provide industry leading results for datasets from airborne, mobile, or other platforms. Analytic tools then transform your highly accurate data into actionable products and automatically generated quality reports.



ACQUISITION

- ✓ Configure all system sensor and store custom profiles to ensure the correct settings during each acquisition
- ✓ Live sensor control during acquisition allows the operator to respond as necessary
- ✓ A real-time point cloud and detailed navigation feedback provide instantaneous data quality control in the field

MISSION GUIDANCE

- ✓ Navigation guidance for pilots and mobile vehicle operators to stay exactly on the planned course
- ✓ Collection management for operators to ensure accurate and complete data acquisition

POST PROCESSING

- ✓ Cloud and local GNSS/INS trajectory processing options
- ✓ Calibrate point clouds with industry leading trajectory optimization and boresight computation methods through Phoenix's latest LiDARSnap
- ✓ CameraSnap sensor calibration and image bundle adjustment creates seamless RGB projection
- ✓ The ability to process data from airborne, mobile or other types of acquisitions using a single software
- ✓ Custom data analysis through automated filtering routines, manual classification tools, change detection, clearance analysis, and more
- ✓ Fully automated project and processing reports for internal QC and delivery to end users.

SpatialExplorer

- ✓ Sensor configuration & profiles
- ✓ Live GNSS/INS solution feedback
- ✓ Real-time point cloud
- ✓ In-field quality control tool
- ✓ IMU installation & configuration tool
- ✓ Coordinate reference system management
- ✓ Flightline management
- ✓ QC - cloud viewing & manual measurements
- ✓ MTA resolution
- ✓ OpenStreetMap - basemap
- ✓ Georeference imagery
- ✓ Export to LAS/LAZ

SpatialExplorer + MissionGuidance

- ✓ Pilot navigation display screen
- ✓ Velocity, heading, and elevation monitor
- ✓ Height maps and custom terrain models
- ✓ Remaining time estimation
- ✓ Operator flight plan view
- ✓ Interactive line scheduling
- ✓ Configurable tolerances
- ✓ Automatic line management
- ✓ Basemaps for spatial reference
- ✓ AGL oracle

SpatialExplorer + Professional

- ✓ Trajectory processing via Navlab or locally (with additional license)
- ✓ LiDARSnap - boresight & trajectory optimization
- ✓ CameraSnap - calibrate camera & imagery
- ✓ Advanced radiometric balance & colorization
- ✓ 360° imagery custom masking & color extraction
- ✓ Multi-mission project calibration
- ✓ Adjustment to GCP and/or a control point cloud
- ✓ Import and colorize from orthomosaic
- ✓ Classification routines
- ✓ Import and calibrate 3rd party LAS/LAZ
- ✓ Classification by fast interactive selections
- ✓ Smart data decimation & smoothing
- ✓ Statistical outlier and noise removal
- ✓ Surface estimation tools
- ✓ Change detection & vegetation encroachment
- ✓ Raster and vector products (DEM, DSM, Contours...)
- ✓ Application-specific exports (TopoDOT, Pix4D, etc)
- ✓ Automated QC and accuracy reporting

BENEFITS

▶ QUALITY ▶ COST-EFFECTIVE ▶ EASY ▶ COMPLETE ▶ ACCURATE ▶ VERSATILE

EXPLORE A PHOENIX LIDAR SYSTEM FOR YOUR TEAM, CONTACT US!

PhoenixLiDAR.com | sales@phoenixlidar.com | USA +1.323.577.3366