

Geodetics' Geospatial Software Tools

LiDARTool



One-Click data processing software for Geo-MMS family of products

- ✚ **PPK Trajectory:** Post-Processing Kinematic solution of the Geo-MMS Navigator.
- ✚ **Create LAS:** Process the PPK solution and the LiDAR data to create the LiDAR point clouds in the LAS format.
- ✚ **Geotag JPEG:** Process the PPK solution and the camera/images for time tagging and geotagging of the data and updating the EXIF of the captured images.
- ✚ **Multispectral image:** Process multispectral images (NVDI, Red Edge).
- ✚ **Colorize LAS:** Colorizing the LAS file using the Orthomosaic images.
- ✚ **LiDAR Plan:** tool for flight mission planning using LiDAR sensor.
- ✚ **Camera Plan:** A tool for flight mission planning using Camera sensor.

VYO



Real-time data monitoring, QA/QC tool in the field, Visualize LiDAR/Camera live

- ✚ **Navigation Visualization:** Provides a convenient interface to visualize navigation data streaming from the Geo-MMS Navigator system. VYO can also be used to display recorded data.
- ✚ **RTK:** Geo-MMS products accept RTCM 3 as input. This industry standard protocol provides GPS reference data for differential GPS processing. Use of this reference data with Geodetics products can yield down to centimeter-level accuracy in real-time. VYO can be used to forward this RTCM 3 reference data to the Geo-MMS family of products from which it is receiving TSPI data.
- ✚ **Visualizing LiDAR Data:** VYO enables visualization of real-time LiDAR point cloud density coverage.
- ✚ **Visualizing Camera Data:** VYO enables visualization of real-time Camera triggering and footprint coverage.

Geo-Toolbox

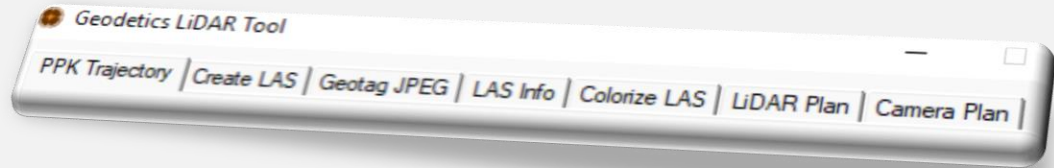


Collection of utilities GPS related tasks

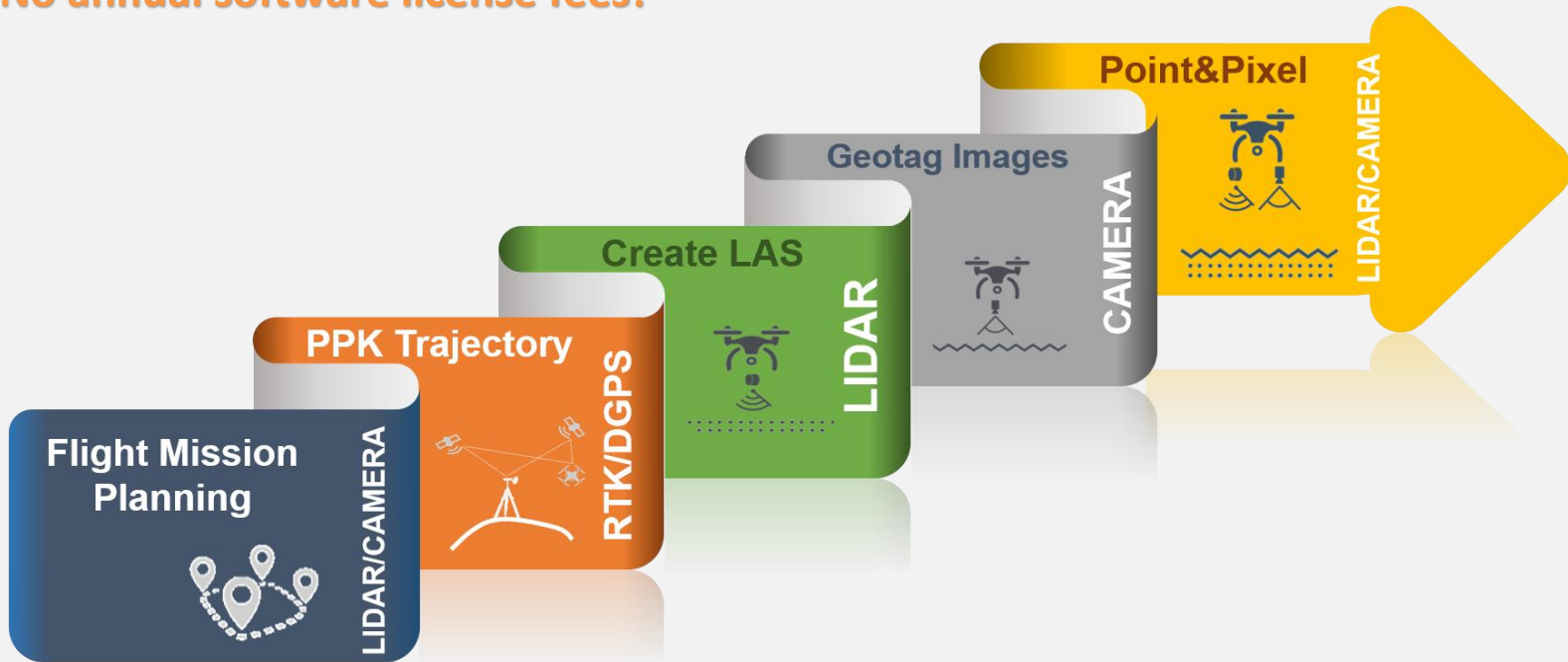
- ✚ **Coordinate Tool:** Tool for coordinate conversions.
- ✚ **RINEX Tool:** Perform various operations on RINEX files, including Rearrange, Extrapolate, Separating SV observations, Split, Merge, Decimate, Gap Scan, etc.
- ✚ **GPS Time Converter:** Tool for conversion of GPS time between different formats e.g. Month/Day/Year and hr/mm/sec, GPS week and seconds of GPS week., Year, day of year and seconds of day.
- ✚ **I/O Bridge:** Utility for bridging input sources to output sources
- ✚ **Google-Earth KML:** Utility for conversion of Geo-MMS trajectory path to the Google Earth (KML) format for easy viewing.
- ✚ **TSPI-Tool:** Tool to visually compare and statistically analyze the performance of a variety of Time Space Positioning Information (TSPI) solutions (offered separately).

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One-Click Data Processing software for Geo-MMS family of products
No annual software license fees!



If our software doesn't precisely meet your requirements, our dedicated team stand ready to work with you to precisely meet your application objectives

PPK Trajectory

- Land-Air PPK processing
- RTK-DGPS
- Dual antenna GPS processing
- Forward-Backward Smoothing
- Support challenging GPS environments*

Create LAS

- Tools for configuration and data processing
- Supports projection coordinate frames
- Supports different geoid models for the vertical datum
- LAS ver. 1.2, 1.4
- Fixed LiDAR boresight

Geotagging Images

- Accurate image time and geo-tagging
- Support for Omega, Phi, Kappa attitude
- Camera boresight
- Update image EXIF (ready to process with commercial Photogrammetry software)

Point&Pixel

- Color LiDAR
 - Accepts JPEG, TIFF, PNG Orthomosaic for colorizing point clouds
 - Supports different coordinate frames for colorizing

Flight Mission Planning

- Flight separation
- FOV
- Point density
- Flight time
- GSD
- Image footprint size

*Contact Geodetics for information