# General Workflow for Wingtra

1. Import
   - Pre-processed LAS, Trajectory file, and photos (optional) from Wingtra LIDAR.
   - Note the coordinate system used.
2. Create Flight Lines
3. Post-Processing

Optional Steps:

4. Strip Align
5. Colorize Point Cloud
6. Generate orthomosaic

Wingtra Documentation and Video tutorial

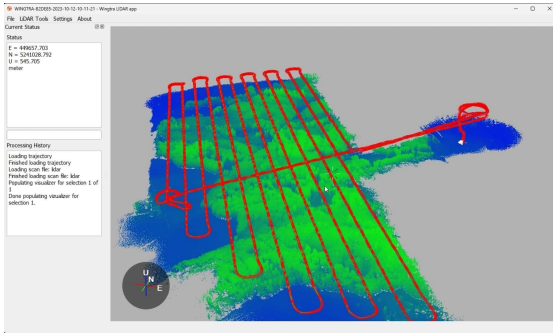
LP360 Drone User Guide – contains all sensor processing workflows

For additional information or documentation, please visit our searchable **Knowledge Base**: Support.lp360.com

# Processing Wingtra in LP360

In this exercise, we will review the workflow for processing Wingtra data using LP360.


LP360



# Importing Wingtra Datasets

Before beginning the LP360 Wingtra Workflow, trajectory processing and initial point cloud generation from the raw data is performed in the Wingtra LiDAR Application. The **Cycle Import Wizard** is then used to import the LAS and Trajectory files generated by Wingtra.

Use the applicable CRS from the Wingtra Application for each file.

Import geotagged photos from a separate flight to colorize the point cloud and/or generate an orthomosaic using the Ortho Mapping tools.

## Flight Lines and Post-Processing

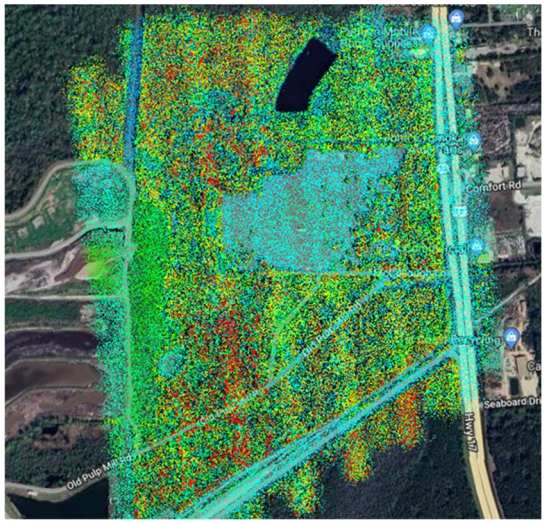
LP360 offers the ability to generate flight lines automatically or manually depending on your needs.

In the **Auto Create Flight Lines** tool, 3 parameters can be set to generate flight lines for the entire cycle

The **Manual Flight Lines** tool is useful when a single flight line (or more) may have a complex pattern that the parameters of the automatic tool can't match.

### Using the Post-Processing Tool

The Post-Processing tool can be used with any sensor type imported into LP360. The purpose of this tool is to prepare the data for later processing (classification, derivate products, etc.) by creating a trajectory file for each of the new flight lines, then generating a new LAS layer. This tool can be helpful when processing large datasets.




## Optional Steps

LP360 is used to reproject the data to various coordinate reference systems not supported by Wingtra Lidar and clean up the LiDAR data, plus utilize the extensive capabilities of LP360 for strip alignment, classification, vectorization, and derivative product generation.

The **Strip Align** tool allows user to perform adjustments between each of the given flightlines to improve the alignment of the overall point cloud. To verify the need for Strip Align, see the following options below:

- Locate flat areas or buildings that can be found in the overlap between flight lines, then use Draw **a Profile** tool to view a cross section. In Profile View, use the Display by Point Source ID option.
- Use the **Surface Precision** tool found on the QA/QC Ribbon in LP36o to identify locations along your LAS data that may not be aligned well or that may have noise that could impact on the quality of your final products.

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