Kolida Skyline (PC Version)

A good helper to process your DJI drone PPK data

UAV now has been widely used in many industries beside Photography. Due to its low cost, good maneuverability, high output and high safety, DJI UAVs are used by more and more users in surveying and mapping projects, making surveying and mapping no longer rely solely on total stations, GPS, and other traditional mapping tools.

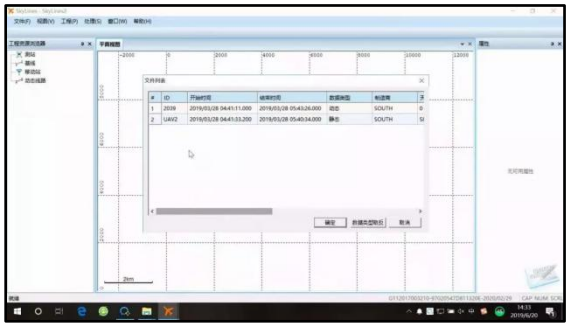
Combining GPS and UAV can greatly improve measurement efficiency and accuracy. However, the GPS single-point positioning accuracy of the UAV flight control is too poor. Previously, a large number of image control points were used to correct the distortion of the image.

However, some special terrains (high mountains, deep trenches, etc.) are difficult to lay out image control points. In order to reduce the workload, reduce most of the image control points, and even to reduce all of the control points, it is necessary to improve the POS accuracy of the UAV. We can use PPK technology to achieve centimeter accuracy.

How can Kolida Skyline help?

KOLIDA Skyline UAV post processing software will not only improve the POS accuracy, but also can assist users to do 1:500 high accuracy aerial photogrammetry jobs better and without ground control point.

The software data structure is based on single-frequency, dual-frequency C/A code, P code, carrier phase and Doppler shift observations. The advanced EventMark difference algorithm is used to provide users with more reliable positioning accuracy. The data collected by the ground station and the airborne end will be imported for calculation, and finally the high-precision photo positioning data is obtained.



KOLIDA SKYLINE has powerful performance, it supports the calculation of DJI UAV format data. It allows to import maximum 10 hours observation data in 5Hz.

In addition, KOLIDA SKYLINE is easy to operate, easy to calculate, POS data can be calculated even if the observed data quality is poor. The POS result file can be directly applied to various types of aerial photogrammetry data processing software, such as Pix4D, Skyphoto, PhotoScan.

The advantages of KOLIDA Skyline:

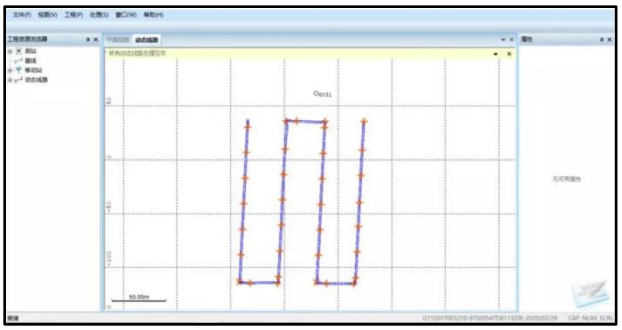
•High precision measurement, down to 1cm + 1ppm
•Perfectly support DJI Phantom 4 RTK, as well as other brands of UAV that has GNSS PPK/ RTK module.
•Supports any KOLIDA and other brand GNSS Receiver that can output Rinex file.
•Supports processing multi-flights data.
•Reduces GCP number up to 80%, saving labor cost, improving efficiency and safety.
•Easy to learn
•Calculated data result is reliable.
•Output format is suitable to most of aerial photogrammetry data processing software in the market

Work Flow:

Preparation
Collect observation data of the ground station and observation data of the UAV and control point coordinates.

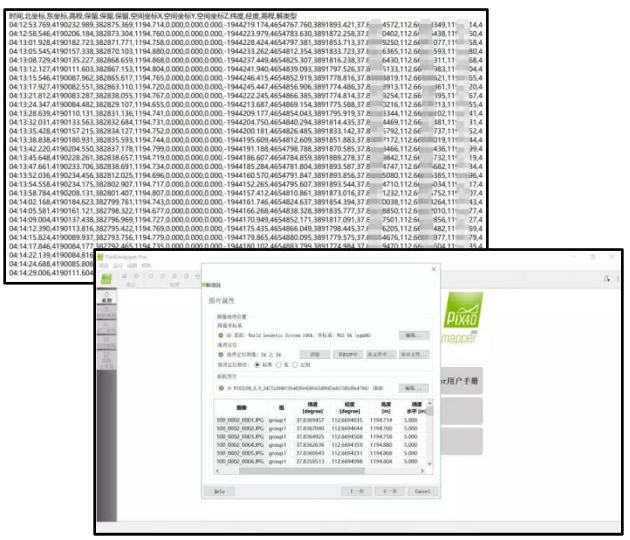
Complete the project setting by setting the coordinate system and setting the photo storage path.

Processing
Import the observation data of the ground station and UAV to Skyline, modify antenna height and other parameters, input the control point coordinates to start processing.



Processing complete:
After the processing is completed, the flight route map can be viewed, and the project results can be exported. The results include plane coordinates, space coordinates, latitude and longitude, etc. The project result files can be applied to other aerial photogrammetry data processing software, such as Pix4D and Skyphoto.

High-precision POS data can be obtained through simple operation, and data reliability and validity are guaranteed by EventMark difference algorithm.



Download Software and Manual:

https://drive.google.com/open?id=1tydX3aVoMakpnZZLAP7cfJyuYfbHqIQq

Video:

Search Kolida Skyline on youtube.com