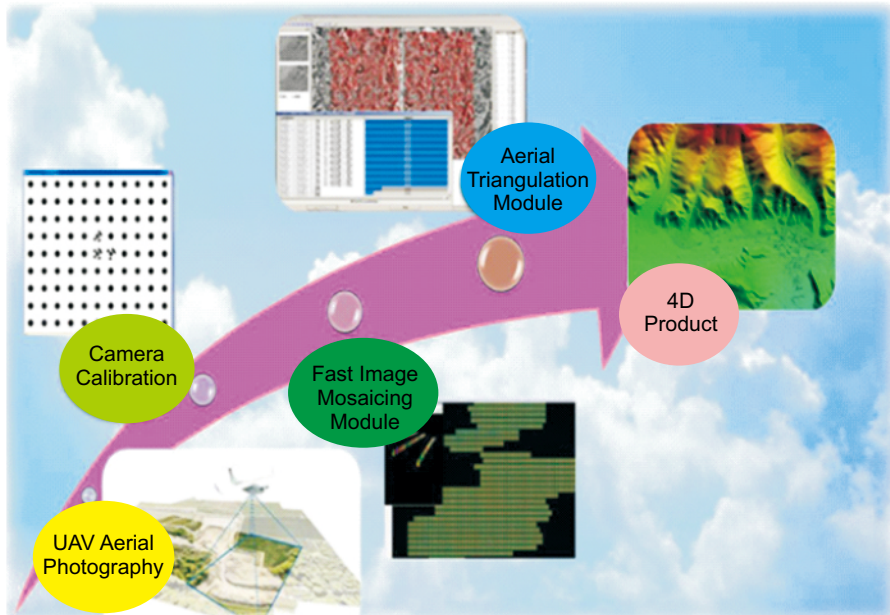


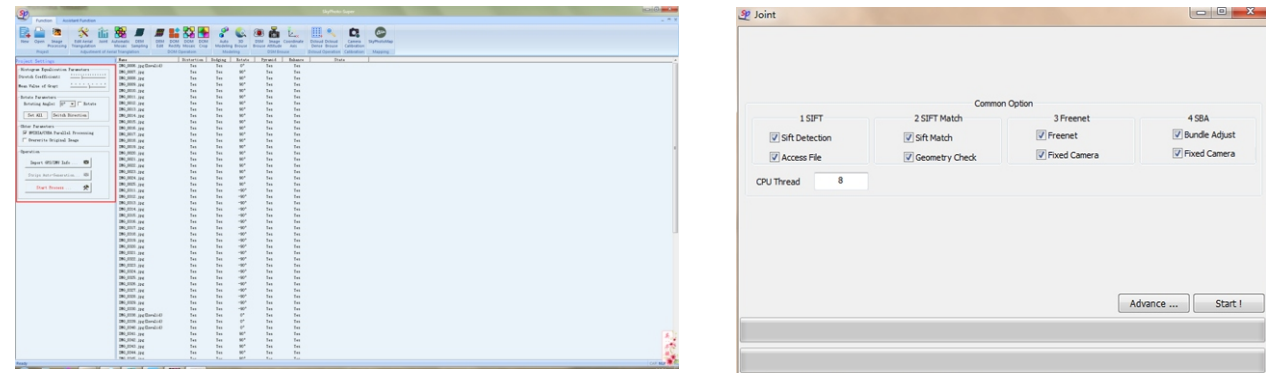
BRIEF INTRODUCTION

Originally derived from traditional aerial photogrammetry system, SkyPhoto is a professional package solution designed for transforming low-altitude aerial images into consistent and accurate points cloud, DEM (Digitized Elevation Modeling), DOM (Digitized Orthophoto Modeling) mosaics, etc. The software features sharply in not only one-key processing for workflow automation but also advanced settings and editable output options, specifically engineered to meet the demand of both specialists and beginners. The main functions include indoor camera calibration, dodging process, accuracy quality report, measurement tool, 3D modeling generation and browse, DLG (Digitized Line Graphics) production based on stereo image pair and so on, making SkyPhoto a sophisticated solution with accuracy, flexibility, usability and productivity.

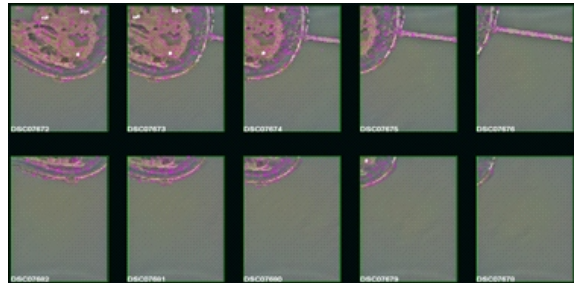
SYSTEM STRUCTURE



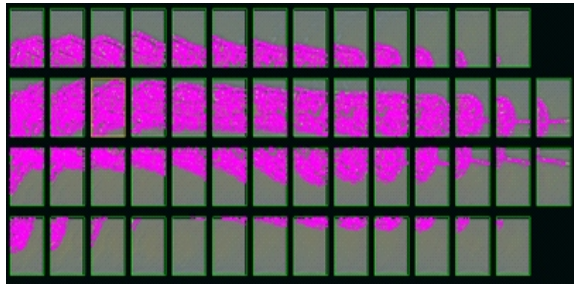
SYSTEM FEATURES



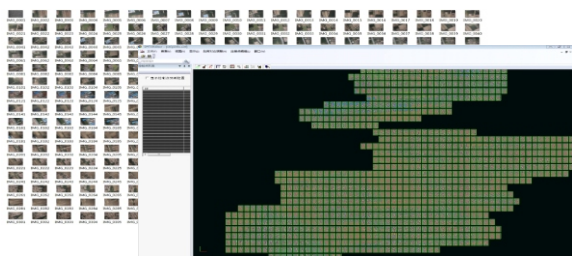
1. The parameter settings for aerial photogrammetry enjoy great flexibility, with manual intervention as well as default one-key operation, worry-free for non-professionals.



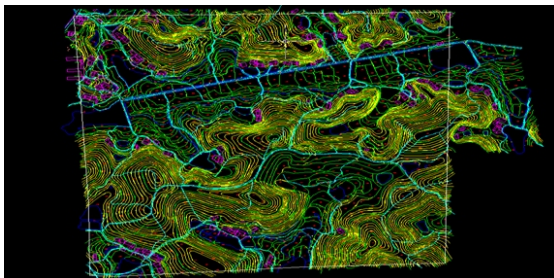
2. The intellectualized aerial triangulation algorithm satisfactorily deals with tough cases like images from unstable flight attitude (Kappa or Omega angle out of tolerance) and sparse textures, for example, deserts, large water area with just a little land, etc. The overlap percentage and rotating angle of images are very little restricted.



4. Powerful capability of quick mosaic, precise correction and matching technology.

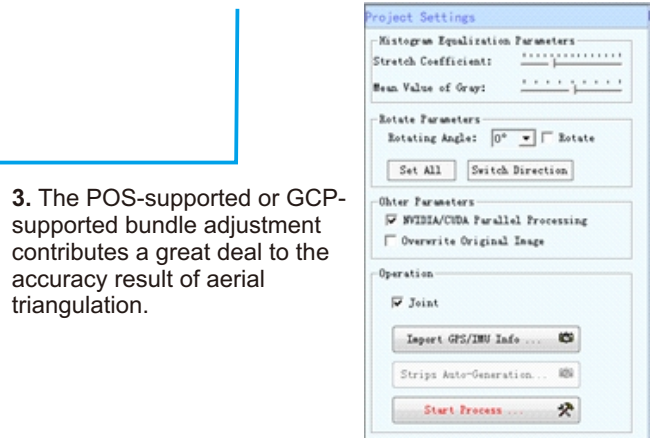


5. This package features largely in keeping both functional versatility and high efficiency at the same time and less time required when processing the same quantity of images compared with other software on the market. Images from multi-rotor drones with excellent flight stability (SkyWalker X61 highly recommended) would easily help you to obtain 1:500 DLG mapping.

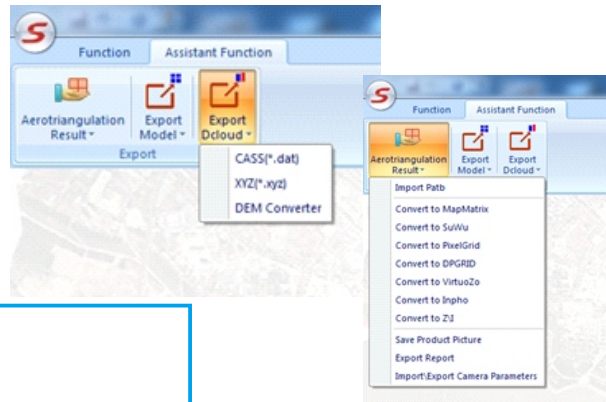


With independent intellectualized property rights, the software is available for format customization upon request.

Our software training would be very helpful for users to advance from traditional ground survey to aerial photogrammetry.



3. The POS-supported or GCP-supported bundle adjustment contributes a great deal to the accuracy result of aerial triangulation.

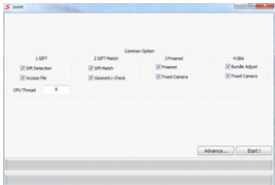
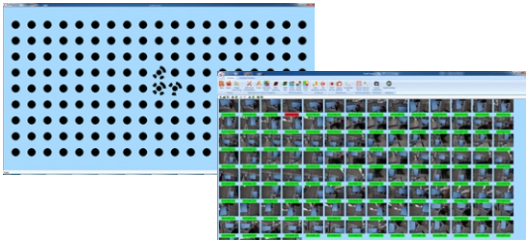


6. The system is compatible to other professional GIS or mapping software by exporting to universal data formats popular on the market.

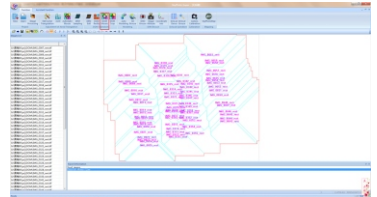
Unlike simple modeling soft ware, SkyPhoto-super is a professional aerial photogrammetry solution that demands systematic operation and proficient expertise.

INTERFACE DISPLAY

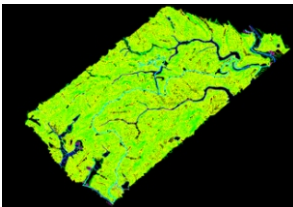
The specialized camera calibration program is included for image distortion correction, as similarly required by all other professional aerial photogrammetry software solutions. By manually inputting camera parameters (eg.principal point, principal distance, pixel size, etc.), you may easily finish the procedures indoors with a desktop LCD monitor. It is to be done either before or after photography, but normally, better before the flights.



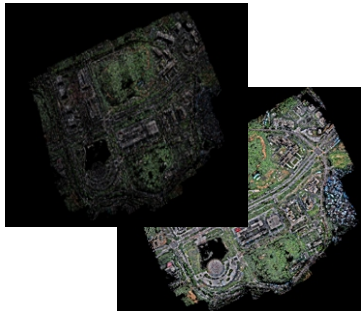
The core algorithm, adopting pyramid gradation method, is optional to match POS data, photographic strips or all images, which provides effective and precise aerial triangulation matching.



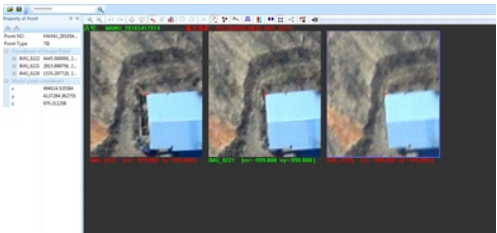
Impressive deliverables (DEM, DOM, DLG, etc.) can be automatically generated, and further edited for higher quality outputs.



The POS-supported or GCP-supported bundle adjustment contributes a great deal to the accuracy result of aerial triangulation.



Millions of orientation points are attributed and even reach to hundreds of millions after densification. Instead of monochromatic points cloud, the colorful output, is more convenient for users to view and analyze the shape and properties of surface features. And you may browse the points cloud in the software like the way that you do with 3D laser scanner.



High-precision POS data from airborne GNSS-RTK system successfully gets you to minimize the huge efforts in dealing with ground control points fieldwork, and you may go straight to adjustment then mapping without the GCP concern.