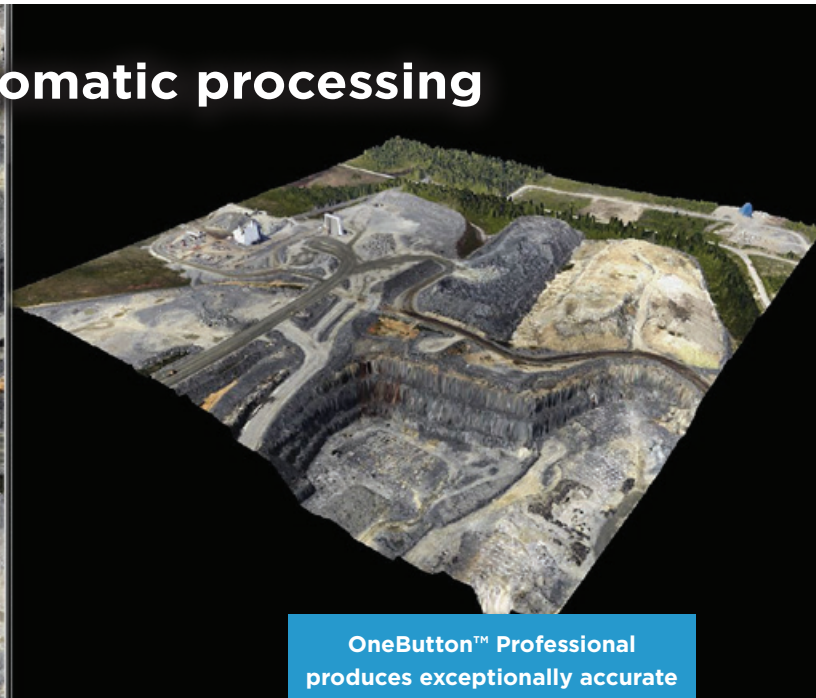




Fine tune OneButton™ automatic processing



**OneButton™ Professional
produces exceptionally accurate
orthomosaics and DEMs**

OneButton Professional™ software

extends OneButton™ Standard Edition with a complete photogrammetric dashboard for more refined, professional results. These tools give you fine tuning control of the photogrammetric process and let you create new projects or enhance output results from projects automatically created with OneButton™.

Outputs that can be produced from OneButton include traditional orthomosaics, true orthomosaics, multispectral band orthomosaics, DEMs (Digital Elevation Models), true color 3D point clouds, and photomesh. Icaros also offers a separate product, called Inspect and Measure Tool™ that can be used to display processed images, including oblique and thermal images, to perform accurate 3D measurement and analysis.

By utilizing the most advanced photogrammetric and computer vision algorithms, OneButton™ Professional lets you easily and automatically create fully georeferenced products in 2D and 3D, while combining highly optimized performance to produce exceptionally fast and accurate results.

Processed georeferenced and orthorectified imagery products are output in a form that can be automatically ingested into Geographical Information Systems (GIS) and analytics packages such as MapInfo, ArcGIS, MapBox and ENVI, supporting complex analytics for applications including precision agriculture; pipeline inspection; real estate visualization; construction, engineering projects; and many others.

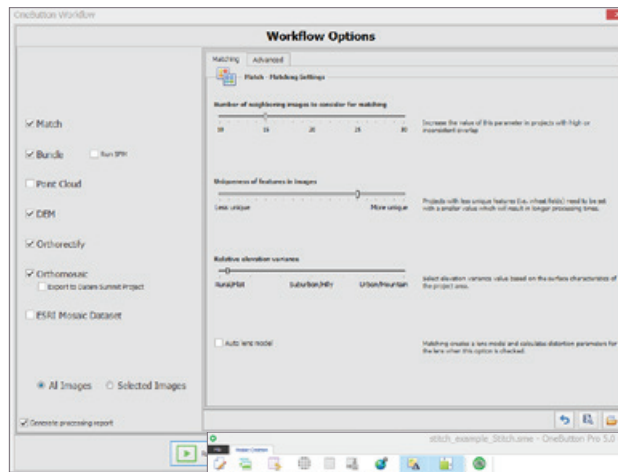
Regardless of your experience, OneButton Professional™ lets you immediately increase ROI and begin building exciting new applications, and dramatically lowers the cost of ongoing data collection and processing for existing applications.



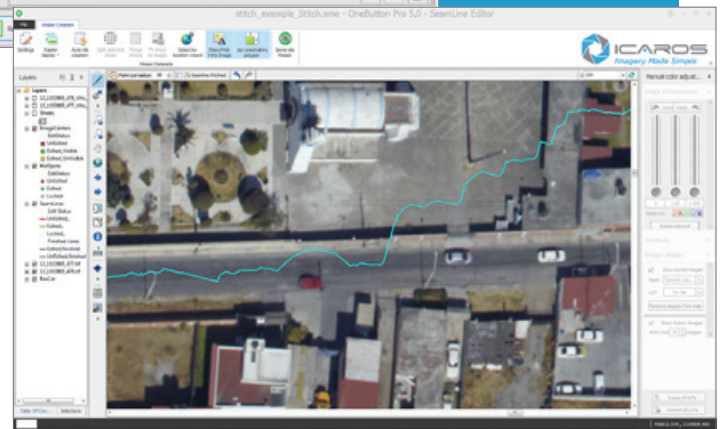
OneButton™ Professional Edition Features and Benefits

The following are some of the key features and benefits of OneButton™ Professional:

- All of the fully automatic processing provided by OneButton™
- An interactive photogrammetric dashboard to step through the photogrammetric process and refine all processing parameters on-the-fly
- Complete control over the aerial triangulation and bundle block solution process including tie point improvement, correspondence (matching) improvement, and filtering
- Complete control over mosaicking including seamline placement, editing and feathering

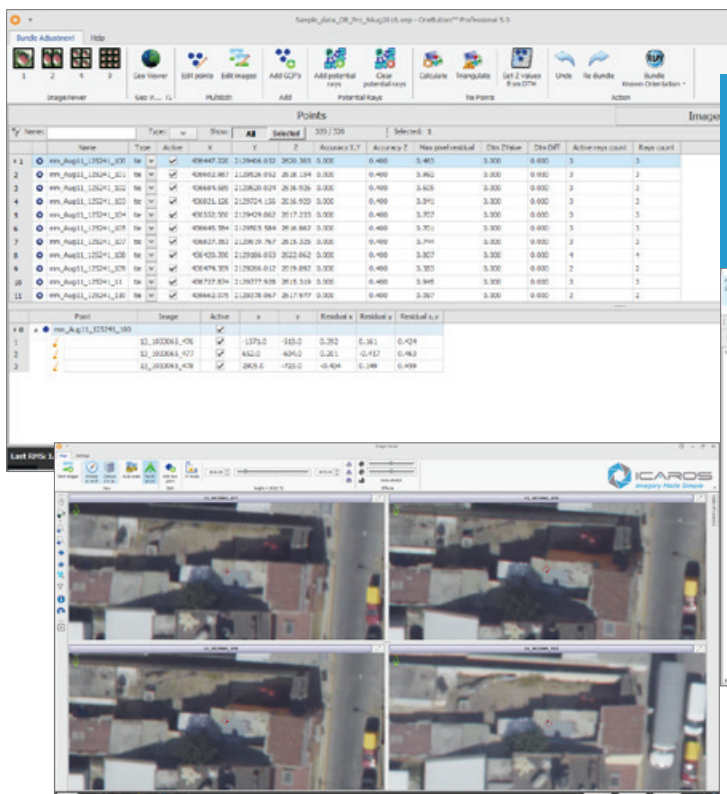


Seamline editor lets you simply drag automatic seamlines to new locations to remove possible defects at edges. Refeathering, color/tone balance is adjustable.

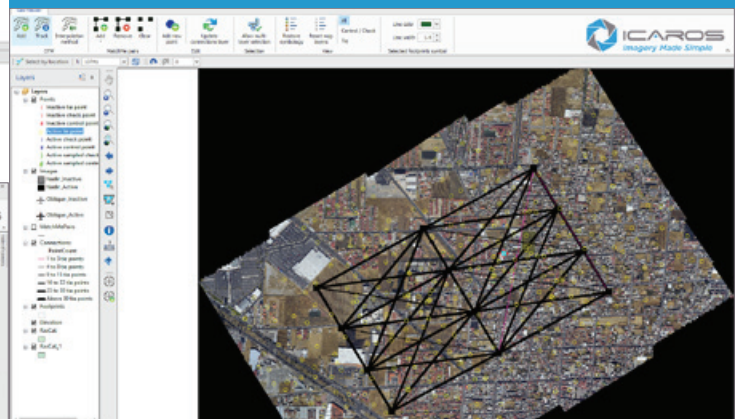


- Facilities to divide large projects into tiles/sheets and combine multiple projects together to produce large orthomosaics, well into the tens of thousands of images, which can be color and tone balanced

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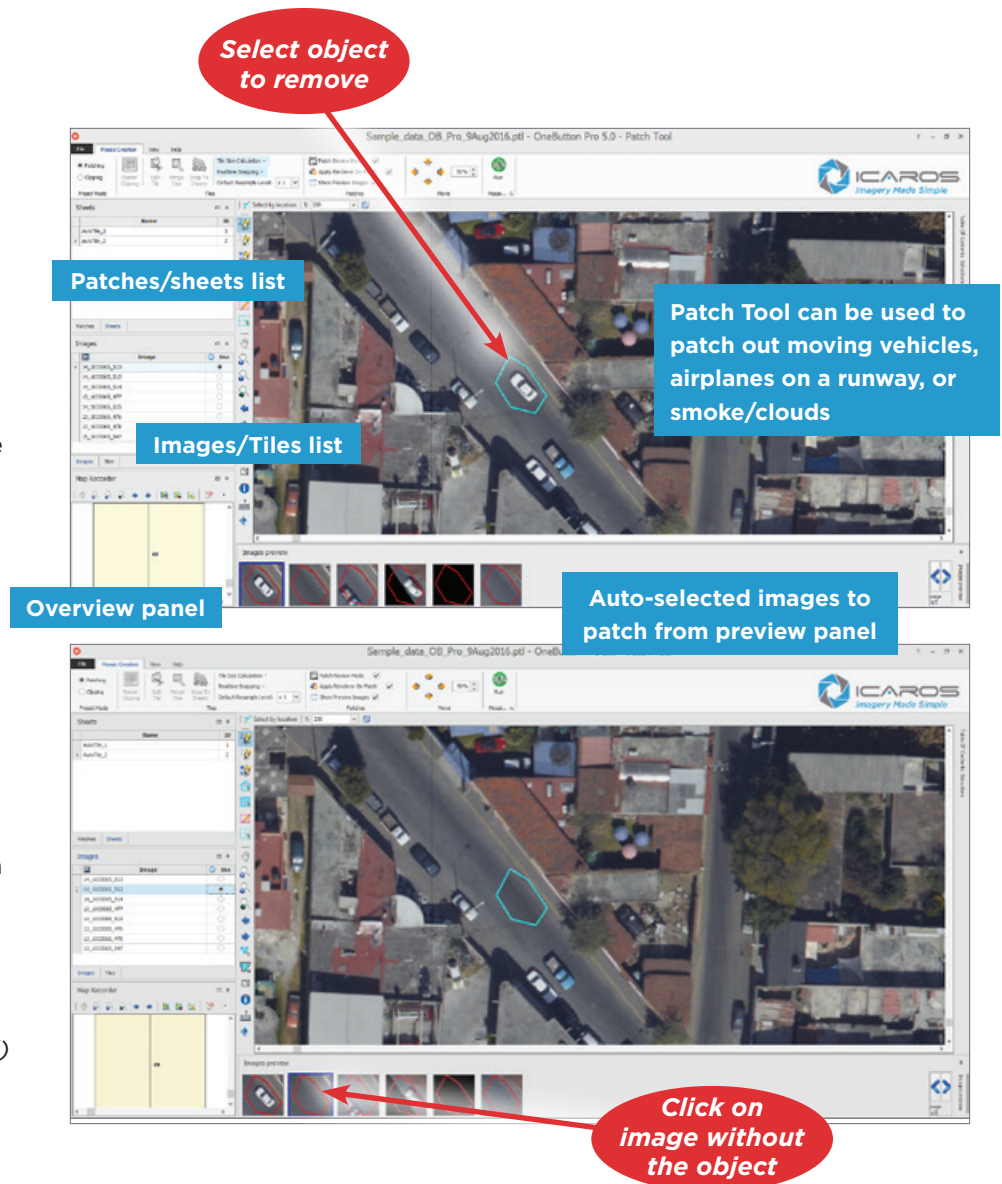
Strength of tie points are graphically depicted. Tie points can be added, modified or deleted. Dramatically improves matching where there's a lack of unique features (e.g., wheat fields), or when images were collected without enough overlap.





- A superfast Patch Tool that selects for you all the images taken in a specific geographic location, displays them, and lets you select an appropriate image to replace undesirable content in mosaics that may appear due to shadows, transient objects, or poor images. Also provides control over feathering of patches and after change recolor/tone balancing
- Management functions to allow complete projects to be split across workstations and division of labor across projects
- Real time progress, auto-save and recovery capability

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Thermal orthomosaic of a corporate campus showing pipes down to 2 meters underground



COMPUTING ENVIRONMENT REQUIREMENTS

Icaros Product	Hardware, O/S, and Esri Products Must Be Purchased Separately		
Software	Supported Esri Versions	Hardware	Supported MS Windows Versions
OneButton™ Standard	None Required	Minimum: 64 bit / 2-Core CPU 4GB RAM Optional: GPU: Nvidia CUDA	Windows 7, 10
OneButton™ Professional	ArcEngine or ArcMap 10.3, 10.4	Recommended: 6-Core CPU i7 or Dual Processor Xeon 32GB RAM GPU: Nvidia CUDA	

OneButton™ family of products is the industries' easiest-to-use image processing application yet is powerful enough to support the most advanced GIS solutions and advanced analytics.

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Icaros, Inc. is an industry-leading remote sensing technology and solutions provider, offering global clients mission-critical imagery services and software products. Since 2004, Icaros has collected and processed high-quality aerial imagery for organizations and governments around the world. The Fairfax, Virginia based company has developed advanced software for processing aerial imagery from all types of sources including RGB, multi-spectral, thermal, nadir and oblique sensors and from manned and unmanned aerial platforms. The company also develops various analytical tools to support oblique imagery and 3D data creation, as well as analytics for various vertical applications.

www.icaros.us/onebuttonpro