ENVI® ONEBUTTON™ PROFESSIONAL

UTILIZE UAS AND AERIAL DATA TO ENABLE BETTER BUSINESS DECISIONS

HARRIS® TECHNOLOGY TO CONNECT, INFORM AND PROTECT™

HarrisGeospatial.com
Explosive growth in the Unmanned Aircraft Systems (UAS) market, coupled with the evolution of inexpensive miniaturized sensors, has made aerial imagery easier and cheaper to acquire than ever before. Information from that imagery is commonly used to develop new applications, update GIS maps, and to make better business decisions. All of this is driving the need for software tools that can speed up the time between image capture and decision making.

ENVI® OneButton™ Professional software comes bundled with ENVI OneButton software, the industries’ easiest-to-use image processing product. ENVI OneButton professional provides an additional complete photogrammetric toolset for more refined, expert-level 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 ENVI OneButton.

Outputs that can be produced from ENVI OneButton Professional include orthomosaics, Digital Elevation Models (DEMs), true color 3D point clouds, orthorectified multispectral mosaics and controlled oblique imagery, all of which can be further analyzed in ENVI software.

By utilizing the most advanced photogrammetric and computer vision algorithms, ENVI 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 your Geographic Information Systems (GIS) and analytics packages such as ENVI, supporting complex analytics for applications including precision agriculture, pipeline inspection, real estate visualization, construction and engineering projects, and many others.

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

Strength of tie points are graphically depicted. Tie points can be added, modified or deleted. This dramatically improves matching where there’s a lack of unique features (e.g., wheat fields), or when images were collected without enough overlap.
ENVI OneButton Professional produces exceptionally accurate orthomosaics and DEMs.

MORE FEATURES

- An interactive multifunction control station 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 DEM and 3D point cloud creation including model density and smoothing for approximated bare earth models and trade-offs between model quality and processing time

- Complete control over mosaicking including seamline placement, editing and feathering

- 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

- A fast geoclipboard 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 image quality. 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

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

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

- Increases ROI and lowers costs of data collection and processing
- Imagery products are easily ingested into your GIS and analytics packages such as ENVI
- Supports complex analytics for precision agriculture, pipeline inspection, construction and engineering projects, and more

**COMPUTING ENVIRONMENT REQUIREMENTS**

<table>
<thead>
<tr>
<th>ENVI OneButton Products Platform Support</th>
<th>Software</th>
<th>Hardware</th>
<th>Supported MS Windows Versions</th>
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<tbody>
<tr>
<td></td>
<td>ENVI® OneButton™</td>
<td>Minimum:</td>
<td>Windows 7, 10</td>
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<tr>
<td></td>
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<td>64 bit / 2-Core CPU</td>
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<tr>
<td></td>
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<td>4GB RAM</td>
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<td>GPU: NVIDIA CUDA</td>
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<td>ENVI® OneButton™* Professional</td>
<td>Recommended:</td>
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<tr>
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<td>6-Core CPU i7 or Dual Processor</td>
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*ENVI OneButton Professional also requires an Esri ArcEngine or ArcMap 10.3.0 license.

**FOR MORE INFORMATION:**
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**About Harris Corporation**
Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company’s advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately $8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks. **For more information visit Harris.com.**