

# Turn UAV Data Into Actionable Intelligence With ImageIQ™

From drone to decision, ImageIQ delivers fast, accurate, and fully georeferenced imagery products. Whether you're in the field, in the lab, or managing a fleet of UAVs, ImageIQ brings unmatched speed and precision to your aerial imagery workflows.

## A Complete Workflow for Drone and Aerial Imagery

ImageIQ is a powerful photogrammetry suite that processes images captured by drones or aerial platforms to generate geospatial products. With both automated and expert-level processing controls, users can tailor every aspect of the photogrammetry pipeline. Key outputs include:

- **Orthomosaics**
- **Digital Terrain & Surface Models (DTM/DSM)**
- **3D point clouds**
- **Digital Elevation Models (DEMs)**

## How ImageIQ Works

Fast. Flexible. Intuitive. Whether you're racing a deadline or refining a precision model, ImageIQ meets you where you are.

### Import Imagery

Load RGB or multispectral images from drones or aerial platforms.

### Define Outputs

Choose from a suite of deliverables like ortho products, point clouds, or elevation models.

### Run or Refine

Use automated workflows for speed, or fine-tune with full control over seamlines, tie points, DEM density, and more.

### Analyze Further

Bring your products into ENVI or Summit for deeper insights.



NV5 is the world's leading geospatial authority driving data and analytics, system integration, and software innovation to transform the way organizations and industries enact meaningful change across their communities and the world.

Features	Benefits
Automated and Manual Processing Paths	Easily generate deliverables or refine every detail
Intuitive User Interface	Minimal learning curve for drone operators and GIS pros
Geo-Clipboard for Quality Control	Replace images with unwanted shadows, artifacts, or transient objects
Real-Time Progress & Recovery	Never lose work mid-project
Seamline Editing & Tone Balancing	Control every detail of your mosaic
High-Quality Tie Point Matching	Enhance results in feature-sparse areas (e.g., agricultural fields)
Summit-Compatible Output	Direct handoff for stereo viewing and 3D digitization

## Seamless Integration with Summit Evolution™ and ENVI®

ImageIQ was designed to work together with the tools you already rely on. Whether you're a photogrammetrist using Summit Evolution or a remote sensing analyst using ENVI, ImageIQ bridges the gap between raw aerial data and actionable intelligence.



### ImageIQ + Summit Evolution : Stereo Mapping Made Simple

Summit Evolution is a world-class photogrammetric workstation that enables the 3D extraction and digitization of features from stereo imagery. It seamlessly integrates with major CAD and GIS platforms like AutoCAD, MicroStation, ArcGIS, and Global Mapper, making it ideal for precision mapping. ImageIQ outputs are fully compatible with Summit Evolution, enabling:

Automatic generation of Summit-ready files with accurate exterior orientation, camera models, and metadata.

Fast stereo setup for viewing and analyzing your dataset in 3D.

Direct digitization into CAD/GIS platforms to extract roads, buildings, and topographic features.

Support for engineering and planning workflows that depend on high-accuracy measurements and geospatial precision.

### Why Choose ImageIQ? See The Difference.

Part of the trusted ENVI Ecosystem platform.

Ideal for precision agriculture, pipeline inspection, environmental studies, construction, defense, and more.

Backed by world-class support and training.



### ImageIQ + ENVI : From Data to Decisions

ENVI is the industry standard for image processing and analysis, enabling users to extract accurate and timely insights from remotely sensed data. When paired with ImageIQ, users gain a complete, end-to-end solution:

Process drone or aerial data in ImageIQ to generate orthomosaics, DSMs, and other key outputs.

Open processed products directly in ENVI for further analysis, including classification, change detection, vegetation indexing, and more.

Use ENVI to create mission-critical deliverables such as fire fuel maps, habitat assessments, or urban expansion models.



Reach out to discuss how NV5 can help you generate insights.

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