

## 3D stereo viewing with precise data collection and feature capture with DAT/EM SUMMIT EVOLUTION™ and Geomatica OrthoEngine

*As a geospatial software professional, you want to get the most out of your data. At PCI Geomatics, we strive to provide you with the best tools available to do just that. Together, spatial data becomes information you can use to gain spatial intelligence.*

PCI Geomatics has partnered with DAT/EM Systems International to create an advanced, efficient and complete photogrammetry solution. Utilizing Geomatica OrthoEngine's robust and wide ranging support for all types of remotely sensed data, and SUMMIT EVOLUTION's advanced CAD and GIS feature capture and editing environment, this technology integration provides an end-to-end solution for all organizations interested in accurately capturing surface features from remotely sensed data.



### SUMMIT EVOLUTION Highlights

- Powerful combination of digital stereoplotter, CAD/GIS interface, video superimposition and automated feature editing
- Digitize directly into AutoCAD®, MicroStation®, or ArcGIS®
- Automatic elevation snapping and terrain following tools
- Input epipolar files directly from Geomatica OrthoEngine

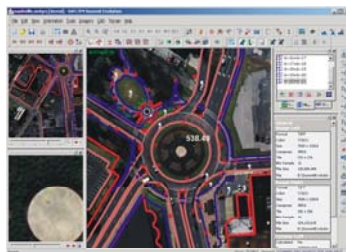
### OrthoEngine Highlights

- Wide-ranging data support including aerial photography, satellite imagery and synthetic aperture radar
- Advanced rational functions- (RPC) and rigorous model-based image orientation calculations
- Automation options including automatic ground control and tie-point collection, model calculations, and batch processing
- Output epipolar files directly to SUMMIT EVOLUTION

### Geomatica OrthoEngine Leading the Image-Centric Revolution

Geomatica OrthoEngine is PCI Geomatics' powerful technology suite designed to handle both small and large photogrammetric production workloads. Geomatica technology produces quality geospatial products including geometrically corrected images (orthoimages), mosaics, digital elevation models (DEMs), and stereo images (epipolars).

With wide-ranging support for many popular types of optical satellite imagery, synthetic aperture radar data and aerial photography, OrthoEngine can provide the technical solutions needed for your data. The power of OrthoEngine technology is further extended by a wide-range of productivity options, including both visual and command-line scripting, automated ground control and image-to-image tie point collection, and multi-project batch processing options.



### DAT/EM SUMMIT EVOLUTION The Height of Digital Stereoplotter Technology

The SUMMIT EVOLUTION digital photogrammetric workstation is a user-friendly system for performing 3D feature collection. SUMMIT EVOLUTION presents stereo images in three dimensions while compiling directly into AutoCAD, MicroStation, or ArcGIS. The SUMMIT EVOLUTION system allows for easy management of multiple model images along with their appropriate camera and control files in a project-based environment.

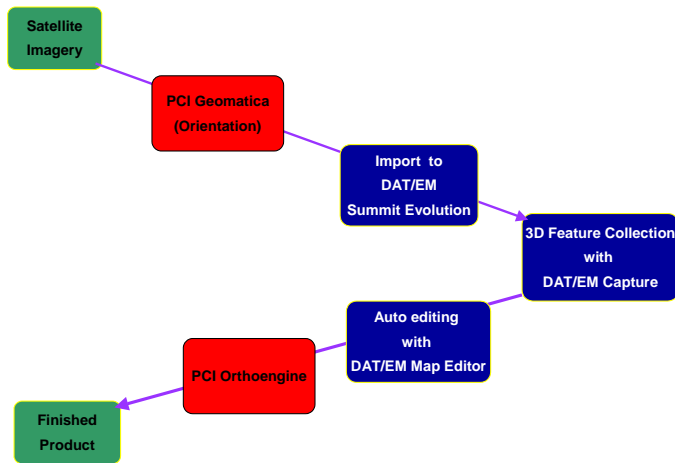


Feature data collection is achieved with DAT/EM CAPTURE and DAT/EM STEREO CAPTURE, industry-leading stereoplotter interfaces. Further batch file editing can be performed using DAT/EM's MAP/EDITOR software. The data capture software and MAP/EDITOR are included with the SUMMIT EVOLUTION digital stereoplotter.

## The Integration

PCI Geomatics and DAT/EM Systems International have partnered to provide a completely integrated, end-to-end photogrammetry solution.

Image pre-processing, model calculation, and epipolar image generation is completed using Geomatica OrthoEngine technology. The epipolar images and image models produced by OrthoEngine can be opened directly in SUMMIT EVOLUTION for advanced CAD and GIS feature collection.



This seamless technical integration offers significant advantages for users of both OrthoEngine and SUMMIT EVOLUTION technology.

OrthoEngine users can now use all of their remotely sensed data for advanced, 3D CAD and GIS feature collection. Further, the advanced DEM editing tools available in SUMMIT EVOLUTION are sure to be beneficial for any organization using OrthoEngine's stereo-image DEM extraction technology.

The benefit of this technology integration to SUMMIT EVOLUTION users includes both the efficient, batch-production epipolar image processing capabilities of OrthoEngine, as well as the wide ranging data support provided by OrthoEngine. Users may also benefit from the automated orthorectification, mosaicking and DEM extraction functionality provided by OrthoEngine.

Users of SUMMIT EVOLUTION and Geomatica OrthoEngine can now utilize advanced 3D feature capture technology for a wide-range of remotely sensed data.

## A Sample of Data Types Supported through OrthoEngine/SUMMIT EVOLUTION Integration

- QuickBird
- IKONOS
- CARTOSAT
- SPOT5
- OrbView-3
- RADARSAT
- ASAR
- Digital and Frame Cameras
- and many more...

For a complete list of supported sensors please see: <http://www.pcigeomatics.com/pdfs/G10%20Sensor%20Models.pdf>

## The Benefits

- **Efficient and Accurate** 3D CAD and GIS feature collection
- **Wide-ranging support** for all types of remotely sensed data
- **Seamless Integration** between OrthoEngine and SUMMIT EVOLUTION technology
- **Automated and Batch** epipolar image generation
- **Expertise** provided through a combined 40+ years experience in the photogrammetry industry
- **World-renowned technical support** provided by PCI Geomatics and DAT/EM Systems International

## How do I find out more?

You can view OrthoEngine and SUMMIT EVOLUTION features through our web page:

[www.pcigeomatics.com](http://www.pcigeomatics.com).

If you would like specific information on the Geomatica OrthoEngine and SUMMIT EVOLUTION integration, contact an account manager at one of our worldwide sales offices at [info@pcigeomatics.com](mailto:info@pcigeomatics.com).