# World-Class Digital Photogrammetric Workstation

## DAT/EM Photogrammetric Software Suite

# SUMMIT EVOLUTION™



- LandScape™
- Capture™
- MapEditor™
- Ortho+mosaic™
- Airfield3D™
- Contour Creator™
- Hardware
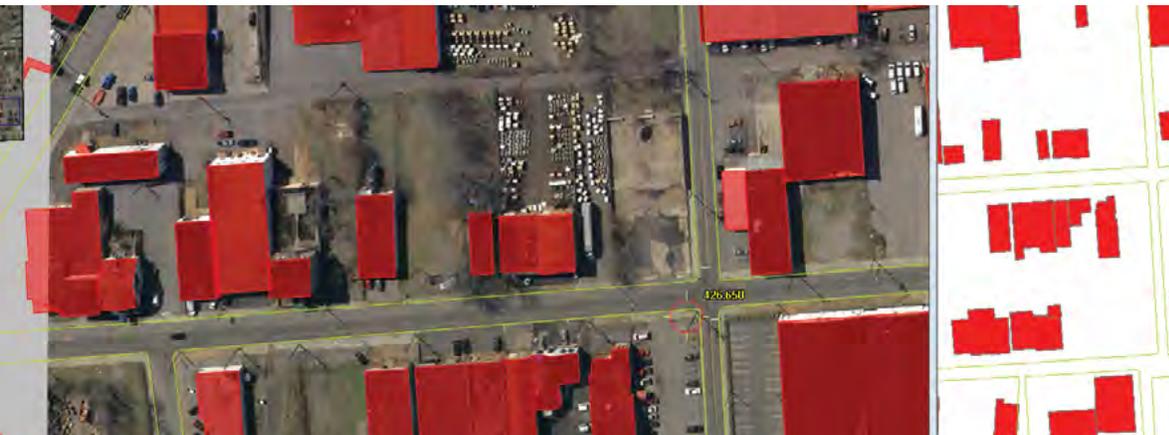
Summit Evolution takes 3D stereo vector digitizing to a new level with its integration of digital stereoplotter, CAD and GIS interfaces, 3D stereo vector superimposition, automated feature editing and contour generation. Through its unique and customizable Capture™ interface, image features from a Summit Evolution project are digitized directly into AutoCAD®, MicroStation® or ArcGIS®.

DAT/EM SuperImposition™ is built into every Summit Evolution system, which is offered in three different product level packages as well as a new Summit Evolution Mobile option. Additionally, integration with the LandScapeTM point cloud editing toolkit is standard.

## Features

- Supports monochromatic, panchromatic, three-channel and multi-channel multispectral imagery.
- Supports scanned aerial film, matrix and push-broom digital airborne cameras, small- and medium-format metric cameras, close-range imagers, orthophotos, RPC satellites, LiDAR, and synthetic aperture radar.
- Imports third-party softcopy projects, aerotriangulation results, and other orientation files for quick setup.
- Full range of manual and automatic image orientation capabilities.
- Digitizes 3D vectors directly into AutoCAD, MicroStation, or ArcGIS using DAT/EM's unique, world-class Capture interface.
- Robust and easy-to-use user interface for maximum productivity.
- Multiple stereo viewing points including Bird's-eye, Close-up, Project Overview, and 3D Vector Split windows for a variety of visualization and feedback tools.
- Multiple project windows.
- Unlimited zoom levels, fast pan, and automatic loading of adjacent stereomodels, with SuperImposition of CAD and GIS vectors over image view.
- DAT/EM Ortho+Mosaic™ module for easy and precise creation of orthomosaics, including true orthos.
- The Terrain Visualizer tool for dynamic, real-time preview of contours while DTM objects are edited.
- Contour Creator™ for creating and writing the finished contours to the CAD file.
- Interface to the DAT/EM-PCI ProPack to allow use of PCI PIX Imagery.
- Airfield3D™ standards-compliant airspace obstruction mapping tool.
- Point Translator for importing, regridding, and converting point data, including LiDAR and other DTM features.
- Summit Evolution Mobile package available which runs on touch screen tablets with Windows 8 in the Summit anaglyph stereo mode.
- 64-bit and 32-bit applications available.

## Three Packages

**PROFESSIONAL**
Full-function, fully capable stereoplotter.

**FEATURE COLLECTION**
For those whose orientation requirements are met elsewhere, but who still require the world-class Capture interface to a CAD or GIS program.

**LITE**
A low-cost system designed for viewing, terrain following, and simple editing and measurement.

| | LITE | FEATURE COLLECTION | PROFESSIONAL |
|---|---|---|---|
| Vector SuperImposition | ■ | ■ | ■ |
| Viewing, terrain following, and simple editing and mensuration | ■ | ■ | ■ |
| Capture add-on for Microstation, AutoCAD or ArcGIS | ■ | ■ | ■ |
| Satellite Propack Interface | ■ | ■ | ■ |
| Complete software documentation and one year system support | ■ | ■ | ■ |
| LandScape Integration Available | ■ | ■ | ■ |
| MapEditor automated editing software for AutoCAD or Microstation | | ■ | ■ |
| Advanced 2D and 3D editing, snapping, attribute handling | | ■ | ■ |
| Terrain Visualizer | | ■ | ■ |
| Contour Creator | | ■ | ■ |
| Point Translator | | ■ | ■ |
| Project Status Tracker | | ■ | ■ |
| Ortho+Mosaic | | | ■ |
| Airfield3D for ArcGIS | | | ■ |

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**DAT/EM Systems International**
**8240 Sandlewood Place, Suite 101**
**Anchorage, AK 99507 USA**

**T: +1 907-522-3681**
**F: +1 907-522-3688**

**sales@datem.com**

**www.datem.com**

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