

ERDAS IMAGINE®



**Versatile**  
**Seamless**  
**Complete**



This ADS40 image of the Miura Peninsula area of Japan was captured by PASCO in 2001.

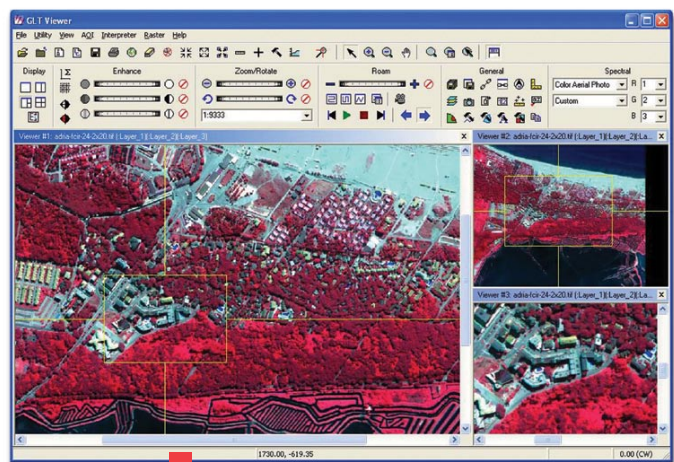
Geographic imaging professionals need to process vast amounts of imagery every day – often relying on software designed for other purposes and add-on applications that create almost as many problems as they solve. Is it possible to save both time and money, leverage existing imagery investments, as well as improve your image analysis capabilities, with just one software application?

**Yes, it is...**

## Are you making the most of your imagery?

For geospatial professionals, imagery is more than a set of pretty pictures. Imagery is the primary source of data for mapping and managing features or resources. Whether you are studying changes in urban growth, sensitive environments, mapping resources or assessing damage from natural disasters, an imagery archive enables you to reference and measure the amount of change that has taken place in a geographic area. Accurate and up-to-date imagery leads to quicker updates throughout your geospatial information for better decision making.

ERDAS IMAGINE®, from Leica Geosystems Geospatial Imaging, is the foremost imagery software package, used throughout the geospatial community. Designed for image processing, its easy-to-learn, easy-to-use and comprehensive collection of tools will help you create, manage and analyze accurate base imagery that enhances all your geospatial information.



The advanced image processing capabilities of IMAGINE Professional combined with the image enhancing tools in the IMAGINE GLT allow you to enhance multispectral imagery and improve the quality of the data you collect.

With a rich history, Leica Geosystems Geospatial Imaging continues to provide geospatial information professionals with the most comprehensive interoperable solutions. ERDAS IMAGINE enables you to transform your imagery into information vital for decision-making processes.

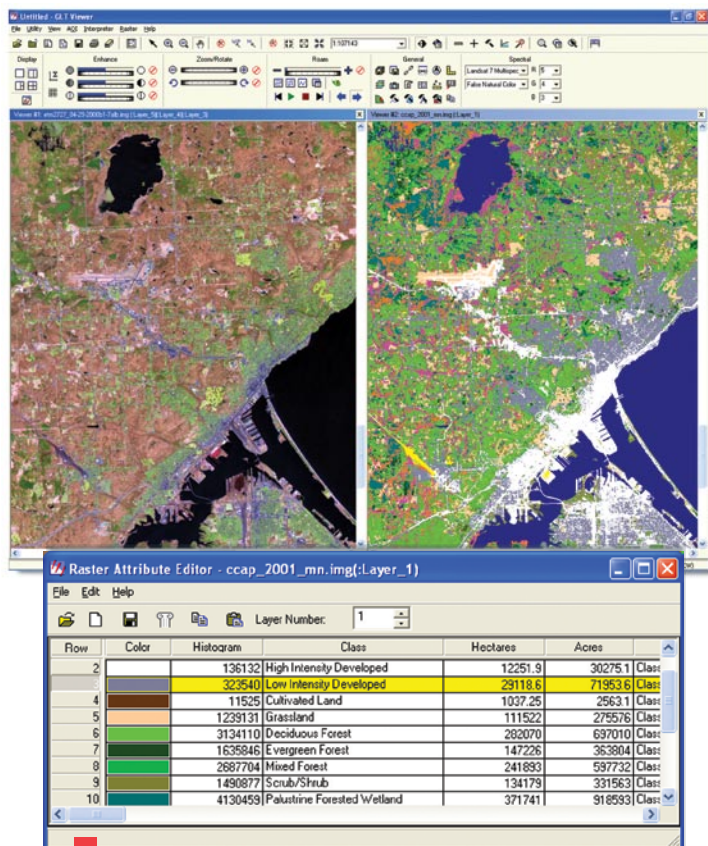
## Versatile

For organizations with extensive collections of geospatial data, ERDAS IMAGINE supports enterprise-enabled geospatial image processing that utilizes a centralized relational database to store geospatial information. This provides enormous benefit to an institution; by making data visible and accessible to end-users, existing and future investments in image and feature geospatial information are exploitable to the greatest number of decision-makers.

ERDAS IMAGINE leverages these capabilities by providing client-side interaction with spatially aware databases such as ESRI ArcSDE or Oracle Spatial 10g. Capabilities also extend to connected and disconnected topological editing of the database for efficient feature updates and maintenance.

## A variety of functionality options

| Functionality                                                             | Essentials | Advantage | Professional |
|---------------------------------------------------------------------------|------------|-----------|--------------|
| Geographically connect files across viewers                               | •          | •         | •            |
| Use over 150 different image formats                                      | •          | •         | •            |
| Rapidly display and roam through imagery                                  | •          | •         | •            |
| Create and edit Arc coverage and Shapefiles                               | •          | •         | •            |
| Create and print maps in over 1000 different projected coordinate systems | •          | •         | •            |
| Display and analyze ESRI Geodatabases, Oracle 10g                         | •          | •         | •            |
| Perform image georeferencing                                              | •          | •         | •            |
| Schedule batch processing                                                 | •          | •         | •            |
| Mosaic images                                                             |            | •         | •            |
| Interpolate surfaces for greater than 10 million points                   |            | •         | •            |
| Orthorectify images                                                       |            | •         | •            |
| Perform spatial, radiometric and spectral enhancement                     |            | •         | •            |
| Analyze information in radar images                                       |            |           | •            |
| Perform advanced image classification                                     |            |           | •            |
| Perform graphical spatial modeling                                        |            |           | •            |
| Extract information from hyperspectral imagery                            |            |           | •            |

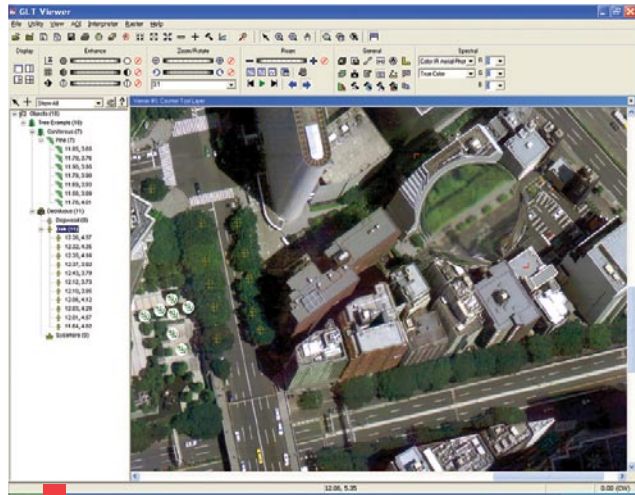


Enhance and target specific classes within your imagery using ERDAS IMAGINE Classification.

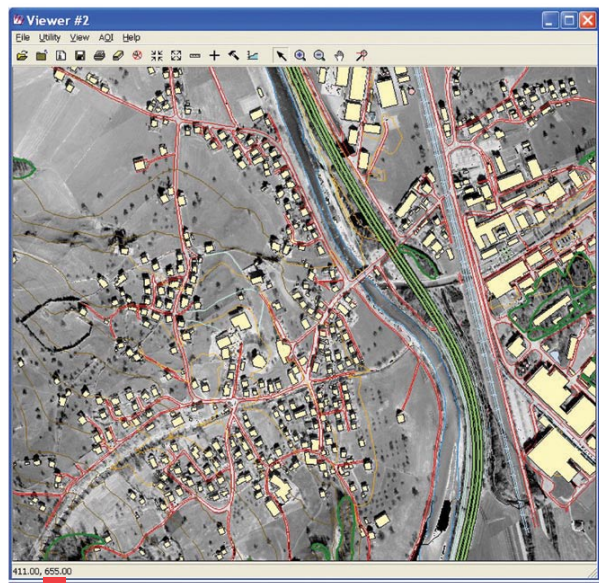
## Seamless

How do you maximize the investment of your imagery? Classification, orthorectification, mosaicking, reprojection and image interpretation. If these processes sound intimidating, you may be accustomed to image processing tools that dictate lengthy and complicated workflows – not to mention output that does not integrate well with your other geospatial tools. ERDAS IMAGINE simplifies all of these image processing functions while maintaining the integrity of the geospatial data you need for updating your GIS in multiple formats, including ESRI Geodatabase and Oracle 10g.

The intuitive ERDAS IMAGINE interface was designed to streamline your workflow and save you time. Powerful algorithms and data processing functions work behind the scenes so you can concentrate on your analyses. The quick display and ability to work with multiple datasets in geographically-linked viewers in the IMAGINE Geospatial Light Table™ (GLT) dramatically reduce the time you would otherwise spend trying to manually relate information from various sources.



Whether adjusting the contrast, searching for objects or just counting trees, as shown in this Leica ADS40 image, tools like the In-view Magnifier let you extract data from your digital imagery easily. One toolbox is all you need.



ERDAS IMAGINE allows you to seamlessly integrate information from your imagery with many vector formats, including ESRI Geodatabase and Oracle Spatial.

## Complete

ERDAS IMAGINE is easy-to-use, raster-based software designed specifically to extract information from images. Perfect for beginners and experts alike, easy-to-learn ERDAS IMAGINE enables you to process imagery like a seasoned professional, regardless of your experience in geographic imaging.

With its vast array of tools enabling you to analyze data from virtually any source and present in formats ranging from printed maps to 3D models, ERDAS IMAGINE offers you one comprehensive solution for all of your geographic imaging and image processing needs. It simplifies and streamlines your production workflow, saving you time, money and resources without sacrificing accuracy.

ERDAS IMAGINE is a scalable solution that will grow with you. With three tiers and a multitude of add-on modules, you can tailor the system to meet your specific requirements.

## The ERDAS IMAGINE Product Suite

**IMAGINE Essentials®:** A powerful, low-cost image mapping and visualization tool that allows different types of geographic data to be combined with imagery and quickly organized for projects. IMAGINE Essentials provides a robust set of tools for geocorrection, image analysis, visualization and map output.

**IMAGINE Advantage®:** A geographic imaging toolset that extends the capabilities of IMAGINE Essentials by adding more precise mapping and image processing functions. IMAGINE Advantage includes a complete set of tools to analyze data from imagery via mosaicking, surface interpolation, advanced image interpretation and orthorectification.

**IMAGINE Professional®:** The most sophisticated software for geographic imaging, IMAGINE Professional includes complex image analysis, radar analysis and advanced classification tools. It also includes graphical spatial data modeling, which is a unique capability for analyzing geographic data.

## Discover the potential of your imagery

Additionally, there are a number of other modules available, further extending ERDAS IMAGINE's functionality and catering to your organization's individual geospatial and business needs. These innovative products include the IMAGINE Radar Mapping Suite, IMAGINE Stereo Analyst®, IMAGINE AutoSync™, IMAGINE Easytrace™ and many others. For more information on ERDAS IMAGINE related products and implementing a customized integrated solution to further strengthen your geospatial system, please contact your Leica Geosystems sales representative.

Increase your accuracy with the flexible and comprehensive toolset of the standard in imaging software – ERDAS IMAGINE, from the company geospatial information professionals have trusted for generations. Call +1 877 463 7327 or send e-mail to [info@gi.leica-geosystems.com](mailto:info@gi.leica-geosystems.com) for more information.

### **About Leica Geosystems Geospatial Imaging**

To be successful in our changing marketplace, you need reliable, enterprise-enabled geospatial information. Leica Geosystems Geospatial Imaging transforms your raw data to useable information, integrating a broad range of geospatial technology throughout your enterprise, via web-based, mobile and desktop clients. Delivering the most comprehensive solutions in image exploitation, processing, visualization and data management, Leica Geosystems provides robust image compression techniques and the most efficient delivery of imagery over the Internet or within an organization. With Open Geospatial Consortium (OGC) and International Organization for Standardization (ISO) interoperability, Leica Geosystems develops solutions with the most advanced service-oriented platform available.

Those who use Leica Geosystems products trust them for their precision, seamless integration, interoperability and superior customer support. Geospatial solutions from Leica Geosystems - when it has to be right.

Leica Geosystems is part of the Hexagon Group, Sweden. For more information about Leica Geosystems or its products and services, please call +1 770 776 3400, toll free +1 866 534 2286, or visit [www.gi.leica-geosystems.com](http://www.gi.leica-geosystems.com).

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**Leica Geosystems Geospatial Imaging, LLC**  
5051 Peachtree Corners Circle, Suite 100  
Norcross, GA 30092-2500 USA  
Phone +1 770 776 3400

[gi.leica-geosystems.com](http://gi.leica-geosystems.com)

- when it has to be right

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