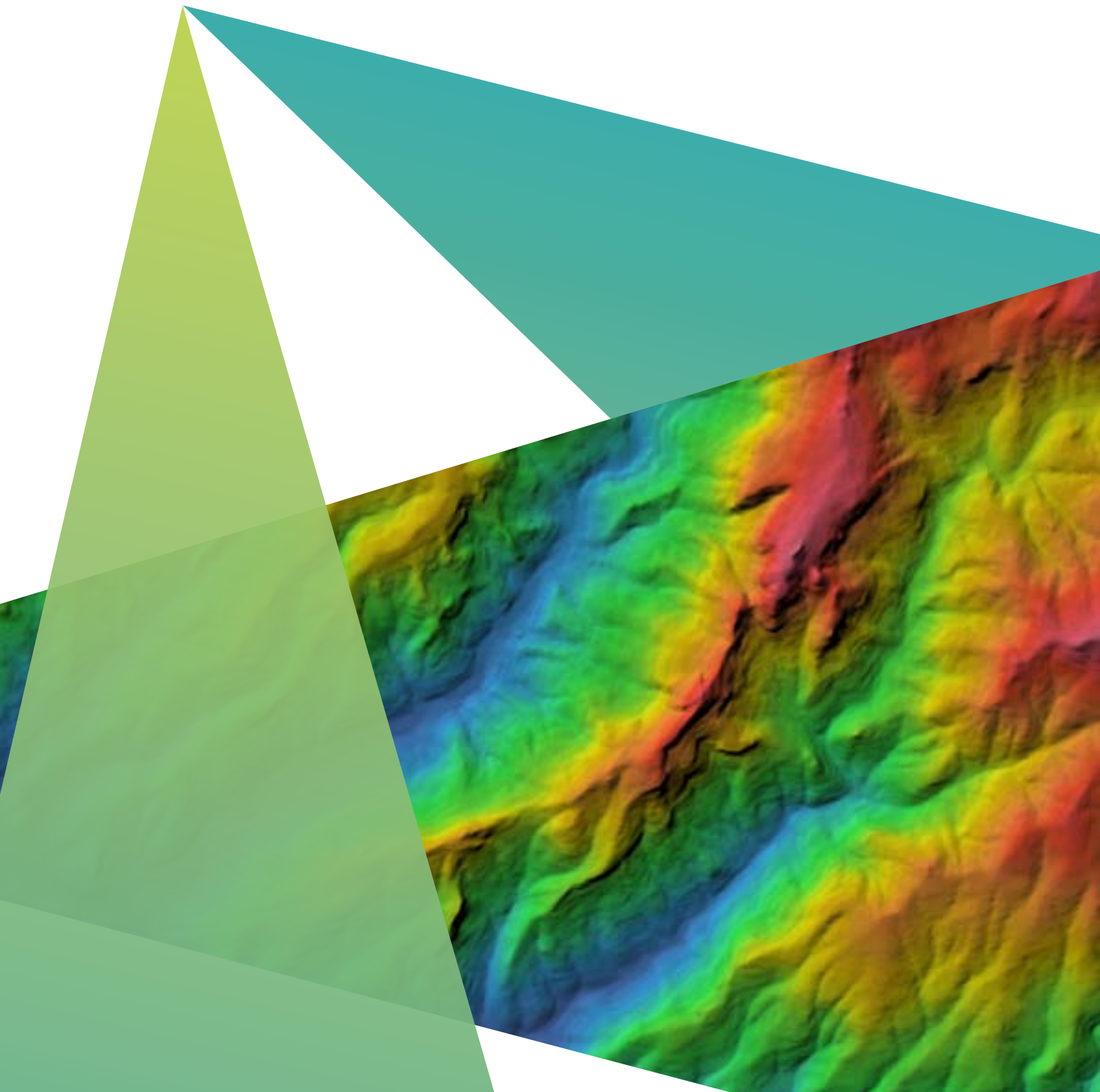


ERDAS IMAGINE

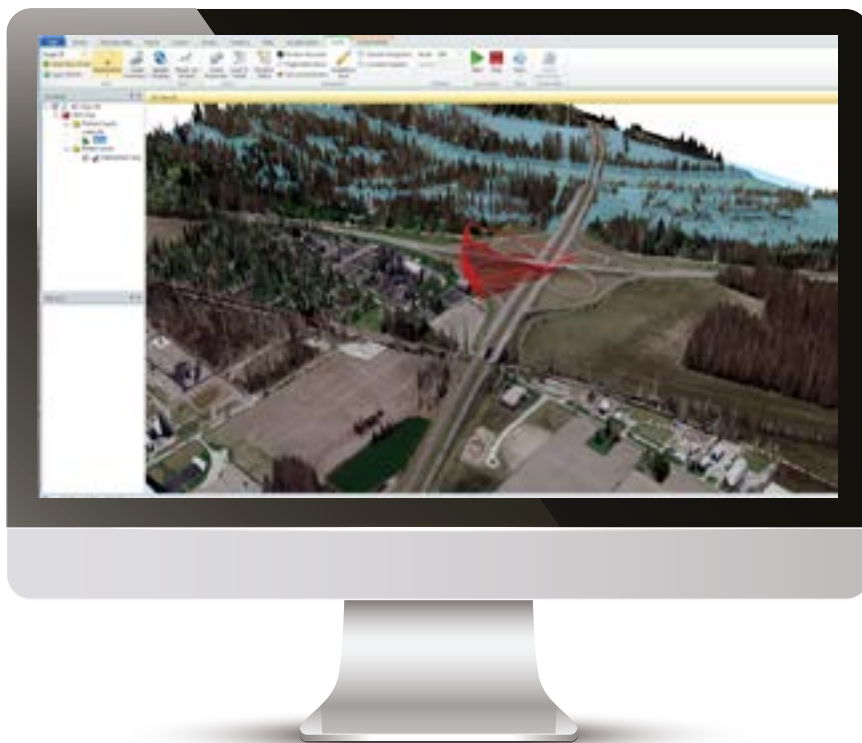
The world's most widely used remote sensing software package





ERDAS IMAGINE

Geographic imaging professionals need to process vast amounts of geospatial data 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 data investments, and improve your image analysis capabilities, with just one software application? Yes, it is.



ERDAS IMAGINE provides 3D visualisation of digital surface models, point clouds, raster and vector feature data.

ERDAS IMAGINE provides true value, consolidating remote sensing, photogrammetry, LiDAR analysis, basic vector analysis, and radar processing into a single product. We offer many solutions in one, incorporating the following standards, enterprise capabilities and products:

- Image analysis, remote sensing and GIS
- Support for optical panchromatic, multispectral and hyperspectral imagery, radar, and LiDAR data
- User-friendly ribbon interface
- 64-bit, multi-core and distributed processing
- Spatial modeling with raster, vector and point cloud operators, as well as real-time results preview
- High-performance terrain preparation and mosaicking
- A variety of change detection tools
- Image classification and feature extraction using Machine Learning and Deep Learning tools
- Ability to convert more than 200 image formats into all major file formats, including GeoTIFF, NITF, CADRG, JPEG, JPEG2000, ECW, and MrSID
- Comprehensive OGC web services, including Web Processing Service (WPS), Web Coverage Service (WCS), Web Mapping Service (WMS), and Catalog Services for the Web (CS-W)
- Easily move data between the different Hexagon remote sensing and GIS products
- Share spatial models between ERDAS IMAGINE and GeoMedia

Make the most of your geospatial data

Imagery and LiDAR are the primary sources 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, a geospatial data archive enables you to reference and measure the amount of change that has taken place in a geographic area. Accurate and up-to-date data leads to quicker, more informed decisions.

ERDAS IMAGINE unites users from different departments within your organisation, saving training time and increasing productivity. Your co-workers, business partners, and clients can now work on a project and produce consistent results through a single intuitive interface. You can also customise ERDAS IMAGINE to simplify your workflows.

Versatile

For organisations with extensive collections of geospatial data, ERDAS IMAGINE supports enterprise-enabled geospatial image processing that utilises a centralised relational database to store geospatial information. This provides enormous benefits to an institution, making data visible and accessible to end users through data management solutions such as ERDAS APOLLO. Existing and future investments in image and feature geospatial information are exploitable by the greatest number of decision-makers.

As users upgrade their hardware and operating systems, ERDAS IMAGINE takes advantage of these new technologies through threading, parallel processing, and minimising the number of times the pixel is touched on the hard disk. Batch tools in IMAGINE Advantage and IMAGINE Professional enable multi-core and distributed processing jobs, allowing large projects to fully leverage system and network resources.





ERDAS IMAGINE provides more classification solutions than any other product on the market, including K-Means, ISODATA, object-based image segmentation and Machine Learning and Deep Learning Artificial Intelligence algorithms such as Semantic Segmentation.

Seamless

How do you maximise the investment in your geospatial data? ERDAS IMAGINE simplifies classification, orthorectification, mosaicking, reprojection and image interpretation while maintaining the integrity of the geospatial data you need for updating your GIS in multiple formats.

The intuitive ERDAS IMAGINE interface streamlines your workflow and saves 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 ERDAS IMAGINE dramatically reduces the time you would otherwise spend trying to manually relate information from various sources.

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.

ERDAS IMAGINE is the most powerful package for derived information (data production), supporting multiple workflows, including:

- Data conversion
- Orthorectification
- Colour balancing, mosaicking and compression
- Land-cover mapping and terrain categorisation
- LiDAR editing and classification
- Map and report generation and printing through the map composer, or Microsoft PowerPoint or Word
- Feature capture and update
- Spatial modeling and analysis
- Terrain creation, editing and analysis



One connected solution

ERDAS IMAGINE connects the entire geospatial Power Portfolio of products to comprise a seamless, complete solution to geo-enable your enterprise.

Flexible offering

Available in three product tiers, ERDAS IMAGINE is capable of handling any geospatial task. Simple enough for the most novice user to get started, yet powerful enough for those requiring robust accuracy, ERDAS IMAGINE is suited for any application or project your organisation demands. All three tiers offer remarkably fast viewing and processing performance, even when handling massive datasets from any sensor in any format, dynamically.

Product and interaction

Share spatial models seamlessly between GeoMedia and ERDAS IMAGINE environments to maximise dissemination and adoption of domain expertise.

Enhance imagery in ERDAS IMAGINE before bringing it into GeoMedia.

Open or create your Photogrammetry project directly in ERDAS IMAGINE with the IMAGINE Photogrammetry suite.

Raster backdrops using the ultra-fast ECW compression format may be directly consumed in ERDAS IMAGINE and IMAGINE Photogrammetry.

Import ImageStation projects into ERDAS IMAGINE or directly consume them in GeoMedia for ortho creation and mosaicking.

Enhance imagery in ERDAS IMAGINE before publishing to GeoMedia WebMap.

Unlock additional grid-based Operators in Spatial Modeler using your GeoMedia Advantage or Professional license.

Spatial models created in ERDAS IMAGINE can be published to ERDAS APOLLO and delivered over the internet as server-side geoprocesses (WPS) in M.App X.

Raster backdrops can be streamed, using the ultra-fast ECWP streaming protocol, by ERDAS APOLLO.

Raster backdrops authored in ERDAS IMAGINE can be directly consumed in GeoMedia Smart Client and Geospatial Portal.

IMAGINE Essentials

A powerful, low-cost image and LiDAR mapping and visualisation tool that allows different types of geospatial data to be combined and quickly organised for projects. IMAGINE Essentials provides a robust set of tools for geocorrection, exploitation, analysis, visualisation and map output.

IMAGINE Advantage

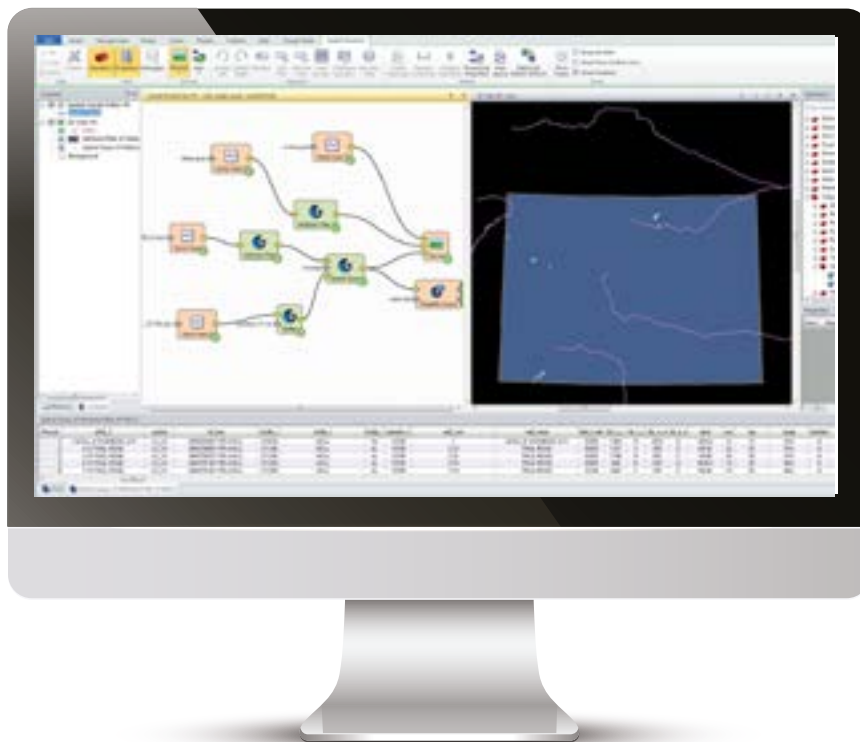
A geographic imaging toolset that extends the capabilities of IMAGINE Essentials by adding more precise mapping with sensor model support and geospatial data processing functions.

The IMAGINE Advantage level allows for point cloud editing and includes a complete set of tools to analyse data from imagery via mosaicking, surface interpolation, radar analysis, advanced image interpretation and orthorectification.

IMAGINE Professional

The most sophisticated software for geographic imaging, the professional level of ERDAS IMAGINE, includes complex hyperspectral image analysis, and advanced multispectral image classification, point cloud classification tools and Artificial Intelligence capabilities. It also includes graphical spatial data modeling, which is a unique capability for analysing spatial data.

The robust Spatial Modeler is a dynamic, graphical, spatial data modeling environment that provides real-time feedback and previews. The modern interface includes extended analysis operators (including point cloud) as well as support for Python scripting. Authored models can be easily run in batch, shared with other users, or published to a server (ERDAS APOLLO WPS).



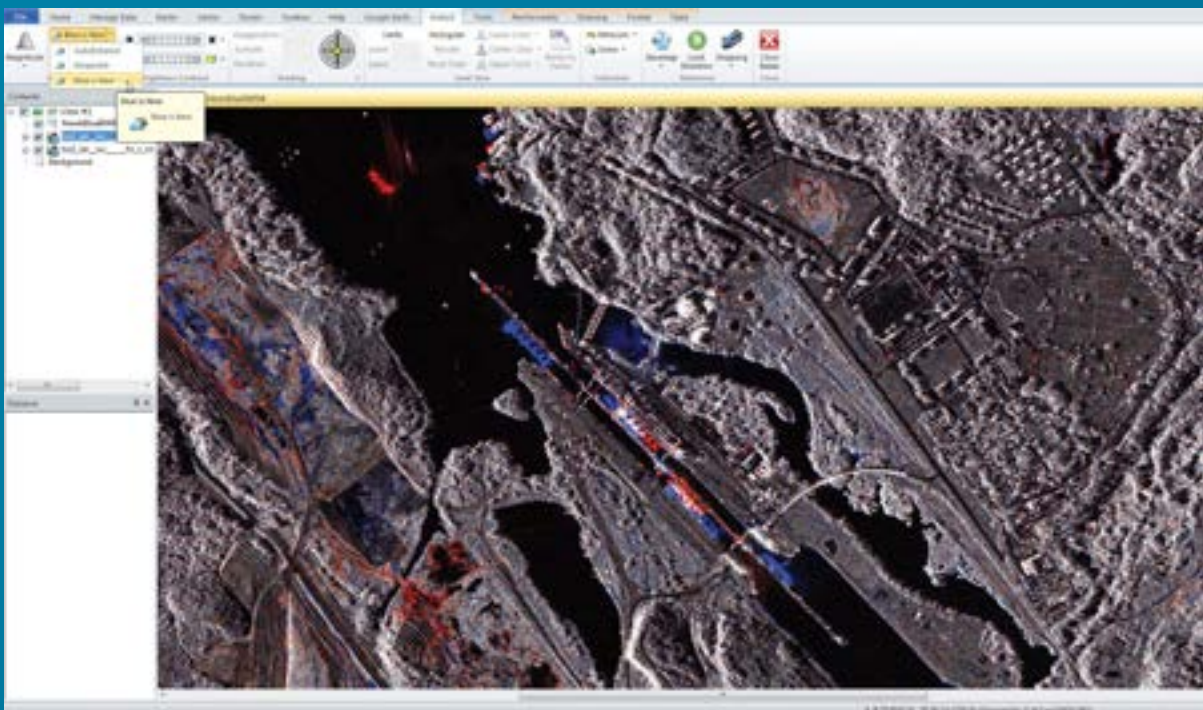
Spatial Modeler uses GeoMedia vector operators to perform analysis.

Selected functionality options

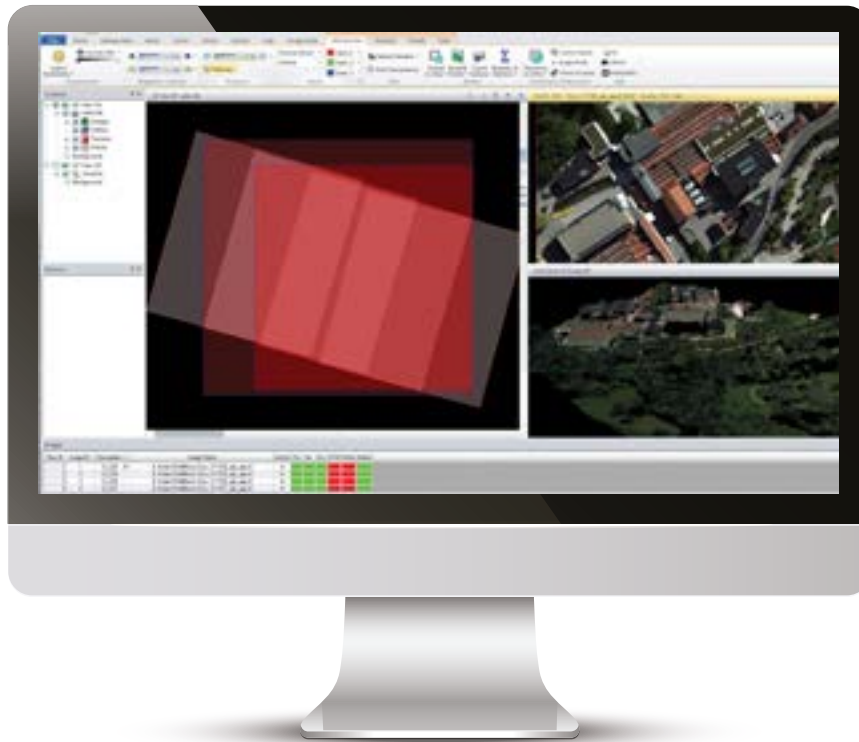
| Functionality | Essentials | Advantage | Professional |
|--|------------|-----------|--------------|
| Geographically connect files across viewers | • | • | • |
| SIPS Image Chain display | • | • | • |
| Compress into MrSID, ECW and JPEG2000 formats | • | • | • |
| Use more than 200 different image and GIS data formats | • | • | • |
| Rapidly display and roam through imagery, vectors and LiDAR | • | • | • |
| Create and edit shapefiles | • | • | • |
| Create and print maps in more than 1000 different projected coordinate systems | • | • | • |
| Display and analyse Esri File Geodatabases | • | • | • |
| 2D, 3D and profile viewing of point clouds | • | • | • |
| Virtual mosaic of imagery | • | • | • |
| Polynomial-rectify images | • | • | • |
| Batch processing | • | • | • |
| Parallel batch processing | | • | • |
| Orthorectify images | | • | • |
| Advanced image mosaicking into a single image or image tiles | | • | • |
| RGB-encode, edit, filter, merge, and split point cloud data | | • | • |
| Interpolate surfaces | | • | • |
| Perform spatial, radiometric and spectral enhancement | | • | • |
| Analyse radar images | | • | • |
| Perform advanced multispectral image classification and point cloud classification | | | • |
| Perform graphical spatial modeling | | | • |
| Extract information from hyperspectral imagery | | | • |
| Machine and Deep Learning algorithms | | | • |



View and edit LIDAR data as well as point clouds created in IMAGINE Photogrammetry and ImageStation.



A full set of dynamic tools for working with radar data, including automatic change detection.



Access photogrammetry functionality directly in the ERDAS IMAGINE ribbon.

Discover the potential of your imagery

With a wide array of tools enabling you to analyse 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 fully enables the display, editing and analysis of point clouds derived from LiDAR or generated from point correlation of stereo pairs. It also allows direct reading of LAS-formatted points clouds, enabling 2D/3D profile viewing, symbolisation, measurement, editing, and classification.

The Spatial Modeler provides flexibility to capture domain expertise and turn it into reusable algorithms that can be accessed from an increasing number of products. Spatial Model Editor is not just provided in ERDAS IMAGINE but is also available in GeoMedia. Spatial Models can be used to define geoprocessing services for use within M.App Enterprise and M.App X.

Increase your accuracy using the flexible and comprehensive toolset of the standard in imaging software — ERDAS IMAGINE, from the inventors of commercial remote-sensing software. Additionally, an array of add-ons are available that expand the core functionality of ERDAS IMAGINE so you can tailor it to your organisation's individual geospatial and business needs.

These advanced products include IMAGINE Photogrammetry, IMAGINE Expansion Pack, IMAGINE DSM Extractor, IMAGINE Terrain Editor, and many others.

For more information about these add-ons, please visit <https://www.hexagongeospatial.com/products/power-portfolio/erdas-imagine-add-ons>.

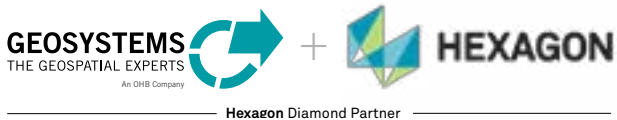




Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications. Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world's critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, utilities, defense, transportation and government.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at hexagon.com and follow us [@HexagonAB](https://twitter.com/HexagonAB).



GEOSYSTEMS is a solution provider in the geospatial arena and helps public authorities, private companies and educational organizations to easily transform location-based data into actionable information. As Hexagon diamond partner, GEOSYSTEMS offers not only leading-edge products for remote sensing, photogrammetry, GIS and data management, but also M.App solutions for easy-to-use dynamic map experiences. In addition, GEOSYSTEMS develops customized applications, implements tailor-made workflows and provides excellent trainings.

GEOSYSTEMS is an OHB company. The office is located in Germering near Munich, Germany. For more information, please call +49 89 8943430, or visit www.geosystems.de.