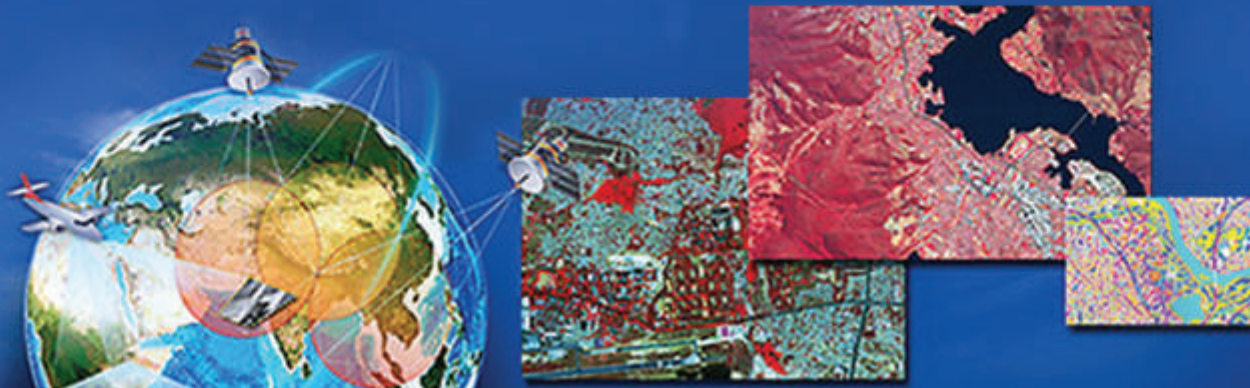


Rolta Geomatica Suite:

An Integrated Software for Remote Sensing and Image Processing

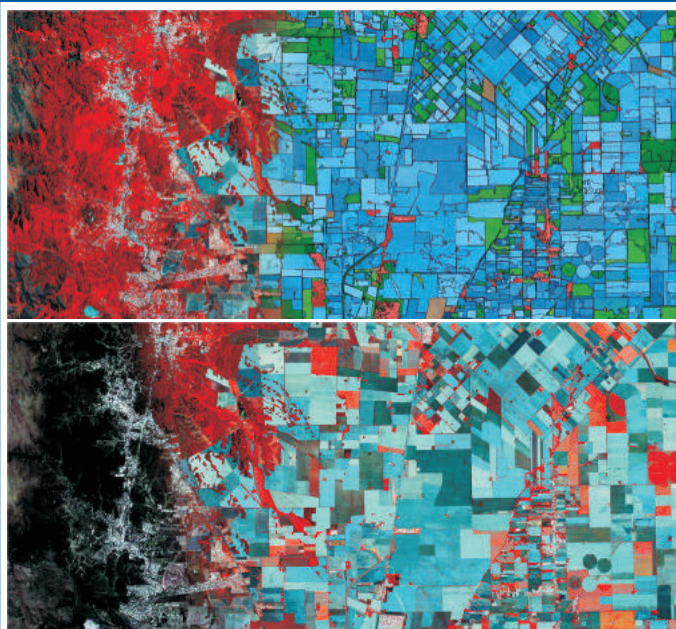


Rolta Geomatica Suite is a single integrated software system, which brings highest degree of automation for Remote Sensing and Image Processing and turns imagery into answers and offers robust solutions for all types of desktop Geomatics. It helps in various GIS based workflow applications and advanced image analysis such as change detection. The software brings patented algorithms for image classification, cartographic map production, hyper-spectral analysis, advanced Data visualization and editing and raster spatial analysis.

Powerful Image Analysis Software

Trusted by thousands of customers in over 135 countries, Rolta Geomatica has long been the comprehensive geospatial software of choice for all of your geo-image processing and analysis needs. Continually improving with an increasing range of functions, Rolta Geomatica simplifies orthomosaic and other workflows, provides rapid and accurate results, and ultimately saves your time and effort in your geospatial work. Automation and versatility are the key values that allow you to process analyze and comprehend geospatial data in our changing world.

Rolta Geomatica software is your best choice for orthorectification, mosaicking, DEM extraction and geospatial image analysis, with support for a growing list of over 180 sensors and file-types.



Dedicated to Geospatial Beginners and Experts Alike

Rolta has been developing complete and integrated software featuring the tools professionals need for remote sensing, digital photogrammetry, image analysis, map production, mosaicking and more for over 30 years. Our strength lies in our uncompromising dedication to being second to none in the imagery processing pillars that are at the foundation of the geospatial world.

Rolta Geomatica Strengths

End-to-End Expertise

Over 550 functions give control over all aspects of your geospatial image processing, analysis & quality assurance

Powerful Platform

The Rolta Geomatica Platform includes a Python API, SDK and developer version to integrate geospatial capability into your custom applications

Multi-Sensor Support

Rolta users can directly open and manipulate data from a growing list of over 180 supported geospatial file types.

The World's Best Ortho

Rolta's software is simply the world's best in geometric correction, orthorectification, mosaicking, and DEM extraction.

Efficient Automation

Wizard-based tools, scripting, batch processing and visual modeling are designed to keep your projects moving forward on schedule.

Industry Leading Support

Fast response times from knowledgeable experts and a dedicated online help center means answers are never more than a few clicks away.



Applications and Industries

Crop Monitoring and Agriculture

Cross queuing multi-sensor satellite data for efficient crop monitoring

Sea Ice Monitoring

Unique polarimetric SAR capabilities discriminate between different ice types for commercial and scientific marine activities

Countrywide Mapping

Countrywide mapping through the high performance RGXL system, with quality assurance and editing in Rolta Geomatica

Petroleum Exploration

Structural mapping and lineament analysis for petroleum exploration using remote sensing



More Applications and Industries

- Agriculture
- Resource Mapping
- Real Estate
- Mining and Earth
- Disaster Management
- Forestry
- Coastal Monitoring
- Oil and Gas Exploration
- Defense and Intelligence
- Wildlife Management
- Utility Management
- Urban Planning
- Surveying
- Asset Mapping
- Insurance
- Many more...

Unique and Effective Editing Tools

Live DEM offers you a simple, less expensive, more efficient way to produce terrain models for your orthomosaics. See and edit DTM blunders in an ortho preview that updates with your changes - You immediately see your fix applied without having to reprocess the entire scene. This makes editing faster, easier, and doesn't require 3D-stereo hardware or the need to regenerate and recheck scenes.

Smart GeoFill provides you with georeferenced copy and paste for imagery. Enhance and retouch orthomosaics while maintaining full

geo-referencing, channel combinations and bit-depth. By using simple polygon selection in your imagery, you can select, copy and paste the best parts of the best images for your final mosaic. This feature extends Rolta Geomatica's DEM and ortho-mosaic production, or can be used to enhance any type of overlapping images.

Along with automatic color balancing and cutline placement for mosaics, achieve consistently pleasing results thanks to global and local exposure correction, contrast adjustment (sigma), as well as dodging points along cut lines or within images. Our overall workflow and interfaces eliminate the need for post-mosaic editing in other software.

Fast, Accurate Model Calculation

With features like automated GCP and tie-point collection, multi-way point selection and the ability to calculate absolute, relative or combined models, Rolta Geomatica provides everything you need for fast, accurate results. EXIF tags and flight line angles make project set-up simple, and our efficient editing tools, image deactivation feature and detailed reporting let you spend less time checking your orthophotos, so you can start your next project sooner.

High Resolution DEM Extraction

Extracting high quality, high resolution Digital Elevation Models from the latest sensors is easier and faster than ever. Work with 100's or 1,000s of stereo pairs, ingest billions of LIDAR points, contour lines and other elevation data to create seamless elevation models at full resolution. Effective smoothing and interpolation removes holes, giving you the complete coverage you need for your orthos and mosaics.

Advanced Radar Processing and Analysis

Rolta has a long history of developing specialized tools for SAR, including compact SAR, polarimetry and specific sensor models. SAR is effective for many applications due to its ability to collect fine resolution imagery in all illumination and weather conditions. The Rolta Geomatica Radar Ortho Suite is purpose-built for orthorectification and DEM extraction of radar data and the output you produce can be combined with other microwave and optical sensors as well as vector data to maximize information delivery. The SAR Polarimetry Workstation is a comprehensive toolkit to develop techniques for applying SAR polarimetry to Earth-monitoring and resource management challenges. This state-of-the-art software reads the radiometric and geometric metadata to provide target selection, target analysis, and dataset processing utilities designed specifically for Polarimetric SAR data. The Rolta InSAR package permits the extraction of DEMs and measurement of ground deformation, and is designed to make processing and operations easier for both experts and non-SAR experts alike.



Rolta Geomatica for Education

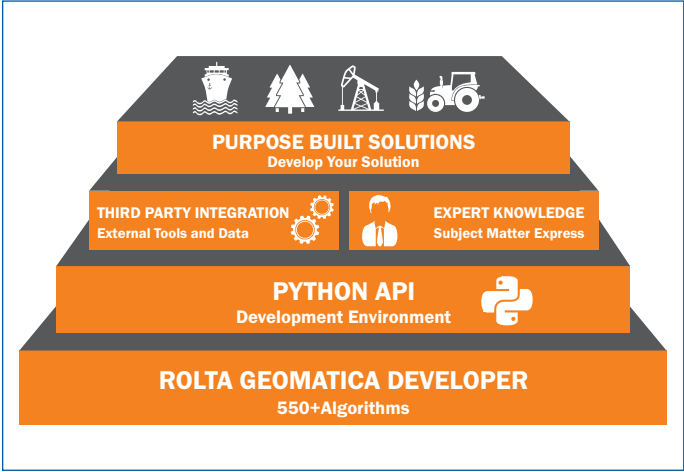
The increasingly important role of geographic information in almost every academic discipline, coupled with its fast-growing field of high-tech career options, will add a new dimension to a wide variety of academic studies at your institution. Professional software that helps students visualize, research and analyze geographic information demonstrates how important spatial analysis is to sound decision making. The Rolta Geomatica Education Suite bundles base modules into one package, with optional, advanced add-ons for atmospheric correction and for SAR analysis (including InSAR and polarimetry). Licensing options are available for students, labs and departments, and full academic sites.

Rolta Geomatica Platform

Rolta Geomatica is a powerful and modular platform designed to exist at the core of your geospatial business. Over 550 geospatial functions optimized for performance and accuracy are assembled and integrated to support image analysis, ortho-mosaic production, and workflow automation. Use these to develop new geospatial applications, generate intelligent business products, or customize your output for any number of market demands.

Key benefits

- Single integrated entry point for all the Geomatics operations in the organization
- More than 150+ sensor supports for all the industry standard sensors
- Advanced image processing algorithms ensuring the best analysis of image data
- Visual modeling & batch processing for faster turnaround of images & vast algorithm support



Sensible Packaging

Whether your project is large or small, satellite or aerial, optical or radar, Rolta Geomatica has the tools required to make your job easier. Rolta Geomatica is packaged simply and easily so you only purchase the necessities for your projects.

	Rolta Geomatica Core	Rolta Geomatica Prime
Rolta exclusive GDB technology	✓	✓
Rolta Focus viewing environment	✓	✓
Rolta OrthoEngine	✓	✓
Cartographic map production	✓	✓
Optical image analysis	✓	✓
3D perspective scene generation & fly-through	✓	✓
Interactive spatial analysis tools		✓
Radar analysis tools		✓
Scripting via Python, EASI, or Modeler		✓
Satellite Ortho Suite	Available	Available
Air Photo Ortho Suite	Available	Available
ADS Ortho Suite	Available	Available
Radar Ortho Suite	Available	Available
Ortho Production Toolkit	Requires one of the Ortho Suites listed above	Requires one of the Ortho Suites listed above
Pan Sharpening	Available	Available
Atmospheric Correction (including ATCOR)	Available	Available
SAR Polarimetry Workstation (SPW)	Available	Available
InSAR	Available Requires Radar Ortho Suite	Recommended Requires Radar Ortho Suite
Object Analyst	Available	Available
Automatic DEM Extraction	Requires one of Satellite, Air Photo, or Radar Ortho Suite	Requires one of Satellite, Air Photo, or Radar Ortho Suite
Historical Airphoto Processing (HAP)		Requires Air Photo Ortho Suite and Ortho Production Toolkit

Flexible Licensing and Operations

- ☐ Floating licenses
- ☐ Desktop and server operations




Technical Support

Customer support is a vital part of the Rolta experience. We promote a customer- first environment to deliver rapid, accurate, personalized responses, proactive communication and clear, concise solutions for all types of support requests.

OS Support

Rolta Geomatica is available on the following operating systems:

 <p>Windows</p> <p>Vendor: Microsoft</p> <p>Supported Versions: 64 bit Windows 7 and later</p>	 <p>Linux</p> <p>Vendor : CentOS/RHEL</p> <p>Supported Versions : 7.x</p>
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