ROLTA PHOTOGRAMMETRY SUITE

Rolta Photogrammetry suite is a versatile, accurate and cost-effective production workflow oriented stereo softcopy system. It addresses a broad range of Geospatial imaging applications. The key focus of the Rolta Photogrammetry product is usability and accuracy. The products are technically supported by experienced domain experts.

Rolta Photogrammetry Nucleus - is a core module for project setup and parameter definition.

Rolta Aerial Triangulation - is to perform orientation, triangulation and Bundle adjustment.

Rolta Satellite Triangulation - is powerful multi image point transfer measurement, triangulation & Adjustment for satellite sensors.

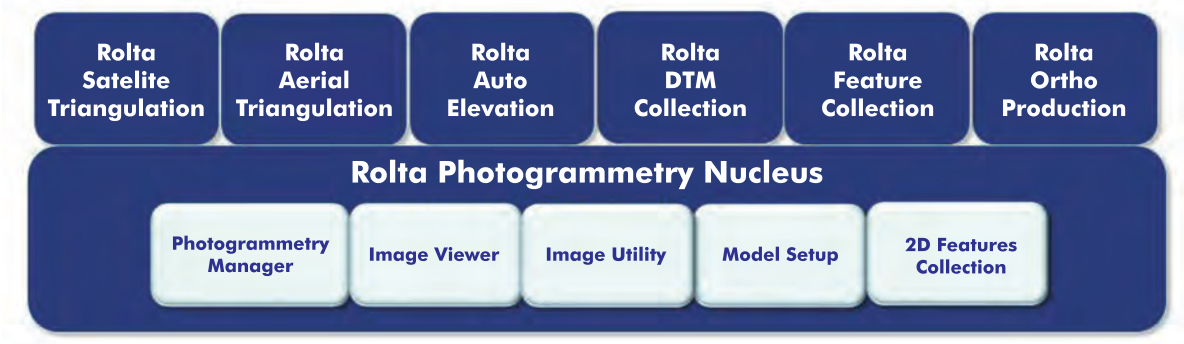
Rolta DTM Collection - is an interactive method for collecting DTM data, elevations and break lines in stereo.

Rolta Automatic Elevation – is for automatic elevation extraction using auto correlation principles.

Rolta Feature Collection - is a flexible, user-friendly and easy to use map feature digitizing system in stereo.

Rolta Ortho Production - is an interactive program for Ortho rectification, Mosaic and basic tone balancing.

Platform Support: Microsoft Windows XP, Microsoft Windows 2000 and Microsoft Windows 7.



Rolta Photogrammetry Nucleus

Project Management – provides the photogrammetric data management tools required for a production workflow. It provides for flexible project management, interactive point measurement, blunder detection and easy to use interface.

Rolta Aerial Triangulation

Simple Project Layout – The Layout enables a onetime set up for the whole project. Photo point measurements are displayed along with image. Functions such as point deletion and measurement viewing are included in layout.

Real-time panning – Facilitates image movement in mono or stereo mode. Automatic and interactive image manipulation and enhancement tools.

Data Support – Supports standard frame and digital cameras.

Flexible Project Management –Tracking the progress of large jobs is very easy by allowing the viewing of all photos and data simultaneously, up to the moment status is reported instantly.

Multi tasking – Represents the triangulation portion of aerial workflow for Ortho- image production and 3D data exploitation.

Rolta Satellite Triangulation

Simple Project Layout – Layout simulates the function of laying out individual photos on a large table. Inner orientation and photo point measurements are displayed along with image edges, photo names and photo data strip directions. Functions such as point deletion and measurement viewing are included in layout.

Wide Range of Satellite Support – Supports a wide range of high and low resolution satellites available today.

Rapid Response – Rolta Satellite Sensor responds rapidly to many tasks required in managing projects. Tracking the progress of large jobs is very easy with the use of this modern software.

Rolta Ortho Production

Interactive Ortho Photo Area Selection – Inbuilt ability to define areas as rectangles or polygons. Real time ground values are obtained from the photo orientation while an accurate elevation may be obtained real-time from the current DTM area.

Single Photo Resection - For small jobs that do not have exterior orientations available from aerial triangulation, an interactive single photo resection application is available. This application allows full resolution image viewing and point measurement with real-time least-squares residual reporting.

Real Time Image Update - An innovative collection method has been implemented for placing manual seamlines. This method provides real time image update with multiple views allowing new seamlines to be placed quickly and accurately.

Advanced Mosaicking Tools - Rolta Mosaic application provides advanced global image balancing solution to correct color and intensity differences between images. The application provides radiometric balancing of both greyscale and color images. Also has automatic seamline generation.

Rolta DTM Collection

Visualization – Terrain visualization tool allows you to see TIN (Triangulated Irregular Network) lines and superimpose the automatically generated contours. It also allows draping of the geometrically corrected images automatically.

DTM Engine – Is on-line and may be run at any time. Application Overlaying allows the engine to run while a data collection application is running. Draping against the DTM surface may be used for quality control, DEM generation, feature extrusion and ground tracking.

Rolta Automatic Elevation

High Degree of Automation – This can be achieved through the use of hierarchical image data structures and image processing methods on the fly.

User Defined Collection Areas - Allows collection areas to be user-definable and range in size from an entire stereo model to any smaller portion of the stereo model defined by the user.

Enhanced matching algorithm - Optionally suppresses grid points near breaklines and obscure areas.

Batch Correlation – Avoids user interference, as it generates elevation for the selected block of stereo models, one after the other.

Rolta Feature Collection

Interactive Vector Graphics - Vector collection and editing is fast, three-dimensional and real-time with full symbolization, line and text fonts.

Static and Roaming Modes - Static (fixed image, moving cursor) and roaming (moving image, fixed cursor) modes are available as standard features.

Minimum Entry Cost – Runs on standard PCs keeping the costs to a minimum. It can be run as a single screen solution and may also use a standard mouse for XYZ input along with 3D mouse.

Versatile and Familiar – can be considered as a 3D CAD system as well as a stereo plotter system, which makes it easy to use and familiar to mapping professionals.

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