



ROLTA DIGITAL MENSURATION

Rolta Digital Mensuration provides a powerful Environment for photogrammetric triangulation workflow. Flexible, window-based image display of multiple images provides efficient transfer and measurement of points in multi-overlap regions.

Flexible project management

Tracking the progress of large jobs is very easy by allowing the view of all photos and data simultaneously and instant reporting. Input and output of ground control, GPS data, triangulation data and imagery files in a variety of popular formats.

Coordinate systems support

Support for a wide range of horizontal and vertical datum, coordinate systems and map projections including user-defined systems and coordinate conversions.

Camera definitions & interior orientations

Supports all types of Digital and Analog cameras. Option to define the internal geometry of imagery using measured fiducial marks, both automatic and semi-automatic interior orientations processes available, with interactive quality control.

Full control on point measurement

Allows the user to measure stereo, split-view and monoscopic measurements of tie and ground points automatically and manually. Blunder detection during point measurement by providing instant alert of an error. Easy and fast re-measures and resets. Feature based matching algorithm for automatic tie point measurement in block of images.

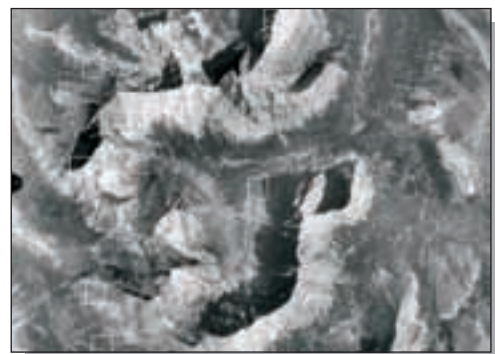
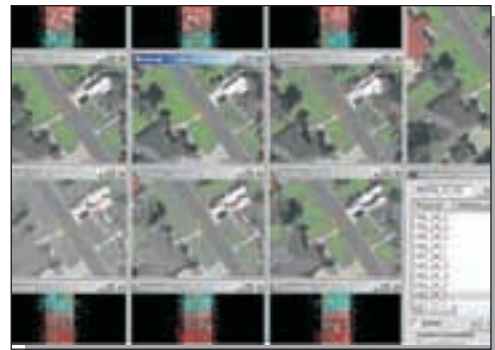
Bundle adjustment & triangulation

Supports bundle adjustment of around 10,000 images at one time. Supports a wide range of ground control data and GPS data during triangulation.

Formats and data support

Supported Image formats: Tiff, Jpg, Jpg2000, j2k, SID & ECW

Supported 3D party triangulation Import and Export formats: ISAT, PATB, Albany, ISBBA, ORIMA, ATLAS, Match-AT, Applanix, PATB transpose matrix, FotoG and Bingo.



Key Features

- Powerful environment for both monoscopic and stereoscopic orientation and triangulation of digital and Analog images.
- Support of post-processed airborne GPS to define sensor position
- Perform standard Interior, Relative and Absolute measurements
- Orientations in both Bundle Adjustment and independent Model Adjustment.
- Graphical display to enable users to identify and resolve blunders including image footprints and residuals
- Ability to do standard single photo resection
- Simplified mouse control during stereo measurement plus real-time panning for image movement
- Optional one button job strip and block adjustment
- Simple project layout allowing view of all photos and data

Benefits

- Flexible project management
- Offers a flexible, window-based image display to allow for the simultaneous display of as many windows as needed of the same or mixed sensors at various magnifications for efficient location, identification, transfer, and measurement of points in overlap region
- Performs bundle adjustment and control file densification
- Improved throughput due to optimized point presentation, easy-to-use mensuration tools, and by a pre-planning step that allows for a high degree of automation in image presentation
- Simultaneous bundle adjustment results can be available as soon as control and transfer points are measured



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