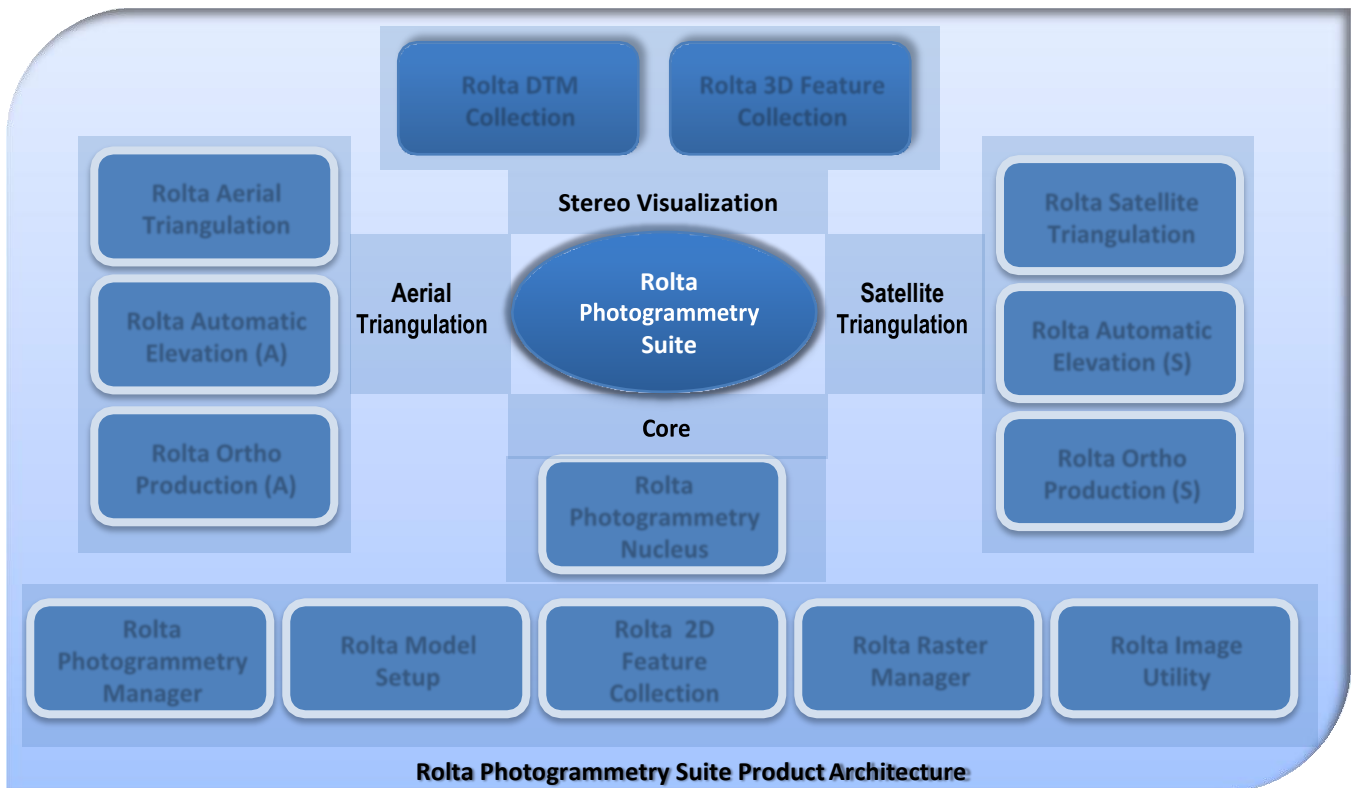# Rolta Photogrammetry Suite

Rolta Photogrammetry suite is an end to end photogrammetry solution providing a versatile collection of software tools to produce reliable geospatial data sets with the highest accuracy. The modular configuration of this program makes it an easy to use, accurate and cost-effective in a production oriented environment. It addresses the entire range of photogrammetric techniques along with added imaging applications to produce quality geospatial products. The products are technically supported by experienced domain experts.

Rolta Photogrammetry Suite Product Architecture

Wide range of data format support

Rolta Photogrammetry Suite supports a wide range of data formats starting from aerial frame cameras to recent digital aerial cameras and digital satellite imageries.

Data Interoperability

Data interoperability is considered to be an essential functionality in any photogrammetry solution, therefore, it is considered to be a value add to the programme. It increases the usability of the software in terms of its capability of producing outputs by consuming different data, processed or unprocessed, available from other sources.
Rolta Photogrammetry Suite accepts exterior orientation parameters from a variety of formats and process data thereafter in its own workflow to produce desired outputs

Quality Outputs

Rolta Photogrammetry Suite encompasses the complete spectrum of photogrammetric measurements and hence produces various outputs at different stages. It creates on- the-fly epipolars, physical epipolars; generates raster and vector terrain models and also produces various by product of these outputs like contours, shaded reliefs and so on. It also produces orthorectified images and combines adjacent rectified image to produce ortho-mosaics.

Powerful Stereo Capture and Analysis

This programme provides different tools to visualize terrain in 3D in its different modules. It allows overlay of terrain features, DEM points on stereo models and also enables editing features in real time. In addition to this its lets user to capture and edit different image feature in 3D mode.
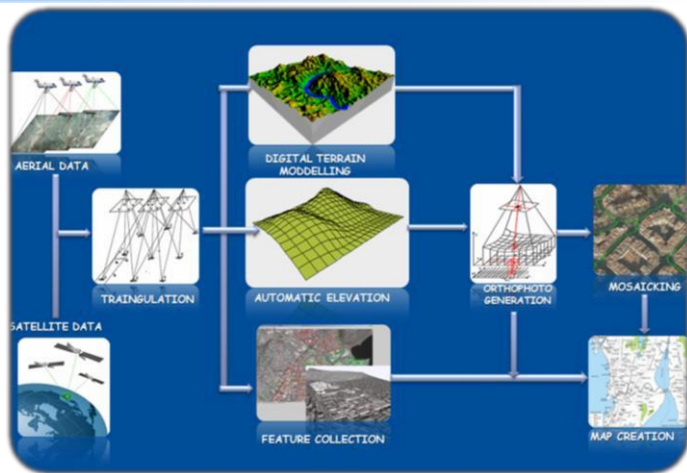
Rolta Photogrammetry Suite

Simplified yet powerful workflow

It's scientifically designed, yet easy to learn workflow that let the user to comprehend the photogrammetric process and to follow the step by step workflow to obtain highly accurate throughputs. This programme offers

- Easy project set up
- Easy Project editing
- Fast data ingestion
- Fast & accurate data processing
- Powerful data storage & management
- Specialized mapping applications & editing tools

Key Features

- Provides versatile, accurate and cost-effective production workflow oriented image analysis and Geospatial imaging
- Automatic and manual inner orientation of aerial data sets
- Automatic tie point and Auto GCP collection
- On the fly and Physical epi-polar generation in satellite triangulation
- Abstracts the complexity of the entire data lifecycle across Data Exploitation, Data Creation and Data Distribution.
- Automatic Raster DEM creation and editing capability
- Vector terrain data generation and editing
- Provides data management tools required for production workflow and increased flexibility in project management through the inbuilt Project Management Tool.
- DEM and Ortho generation of user defined area
- Exclude area option during DEM generation
- Stereo Visualization and editing features in stereo
- High level of usability and accuracy through support by experienced domain experts.

Benefits

- Monoscopic, Semi-automatic correlation basis and Stereo Point measurement options are made available for the ease of the user while triangulating aerial data
- Support to several third-party block adjustment packages through import export tool in aerial triangulation strengthening interoperability
- Statistical blunder indicators with enabled editing option for user ensuring precise adjustment
- Both Raster and Vector elevation data generation and editing capability for highly accurate throughput generation
- Powerful Ortho-image creation for small jobs interactively or large jobs in batch mode fulfilling production demands at any scale
- Dynamic Image enhancement ensuring precise point measurement and data collection during both triangulation and mapping

---

Rolta Photogrammetry Suite is now available with an imaging tool called Rolta Image Manager. This will facilitate user to perform different raster and vector operations as well as provide raster DEM editing options for achieving greater accuracy with finer details.