IGiS - Photogrammetry Suite

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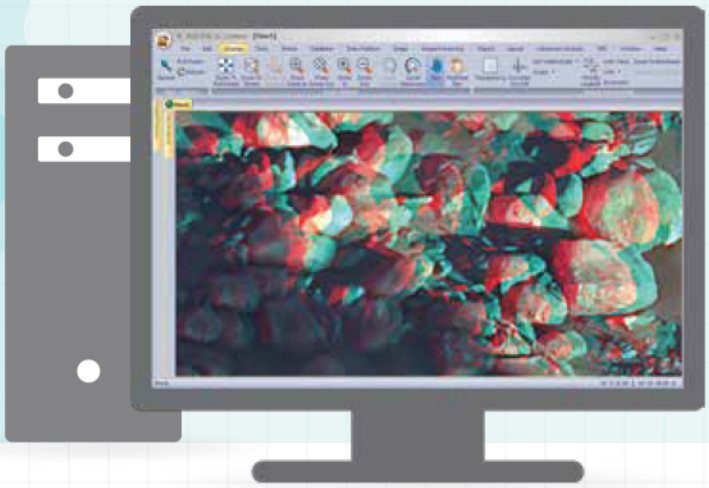
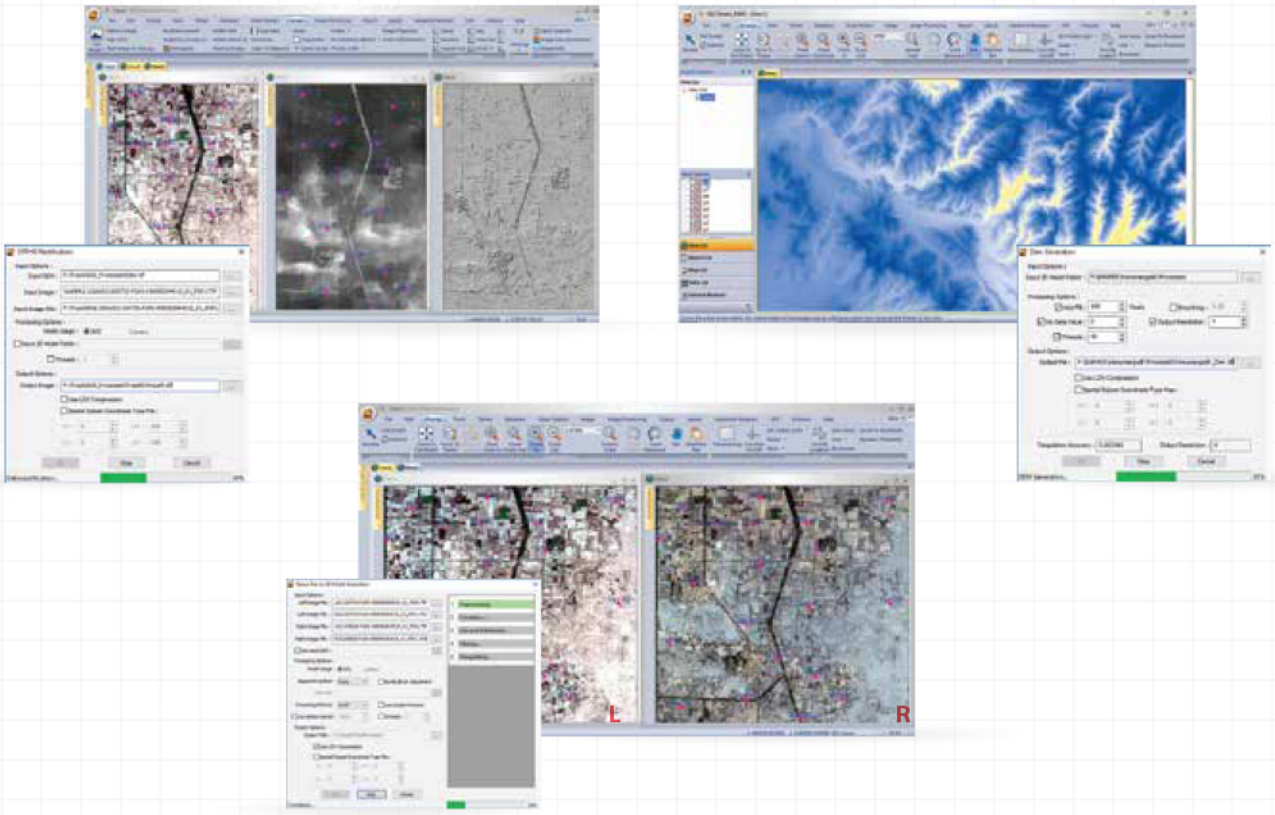
IGiS Photogrammetry Suite - Fully automated geodesy and Photogrammetry tools for image to 3D



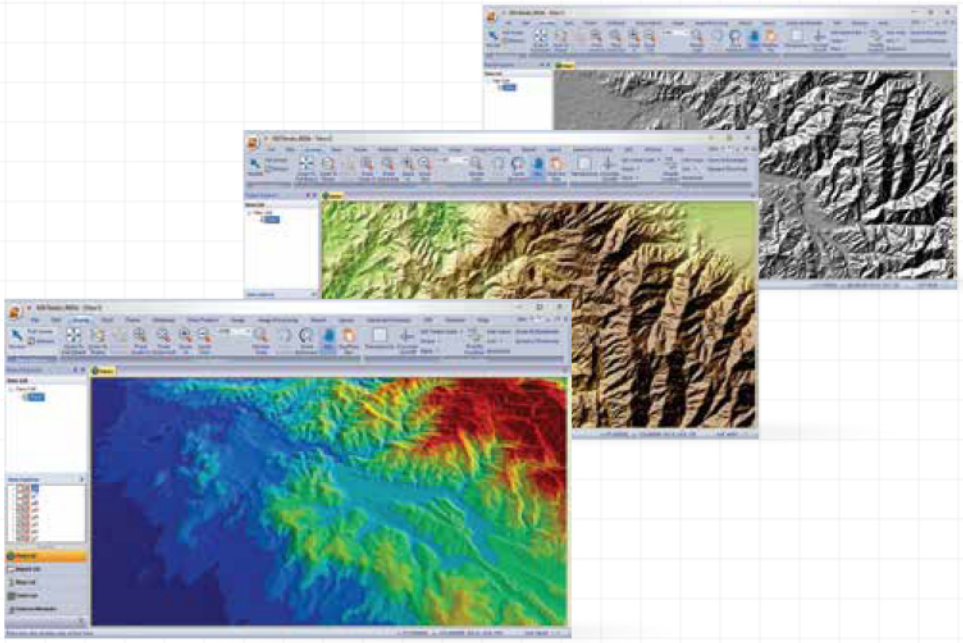
Designed for processing stereo imagery captured from various satellites, aircrafts and drones with and without camera information. Photogrammetry process uses camera model and RPC imagery information. A simple automated workflow, highly accurate survey grade outputs and high-speed parallel processing makes the IGiS Photogrammetry Suite unique.

Supported satellites: GeoEye, WorldView, IKONOS, SPOT, Cartosat, RADARSAT-2, and KOMPSAT.



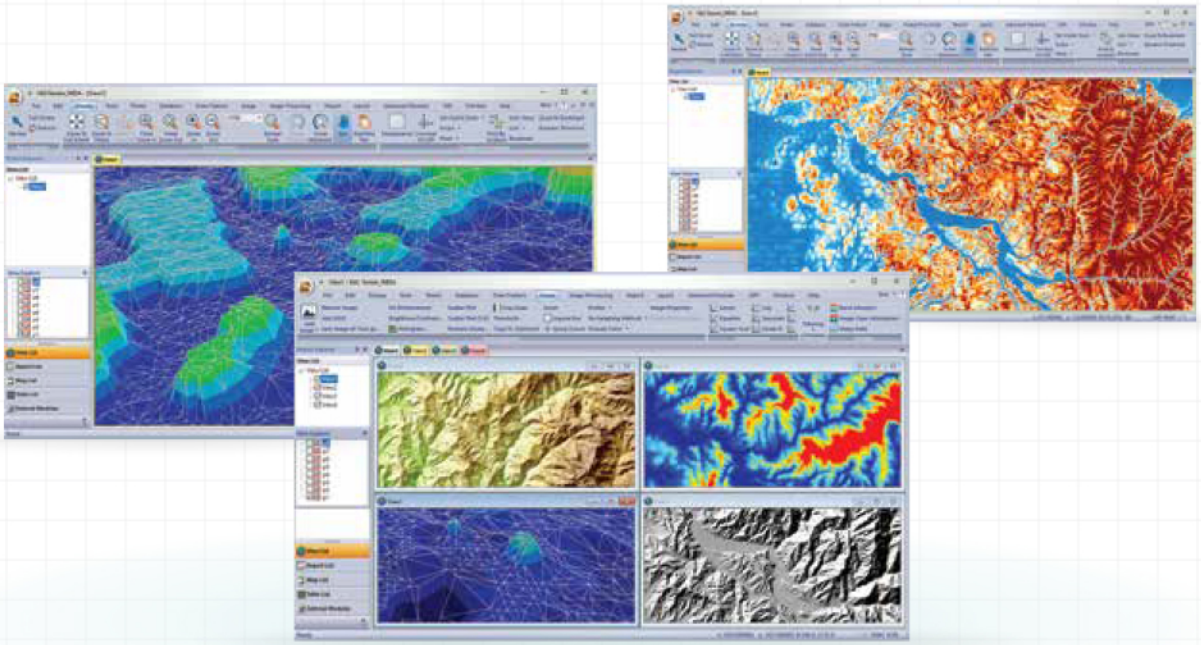
Dynamic and Automated Processing Workflow

The fully automated workflow of IGiS Photogrammetry covers all steps of stereo processing including mosaicing, GCP extraction, bundle block adjustment, tie point generation, alignment, masking, correlation, triangulation, creating 3D photogrammetry models, DEM generation, hole-fill and smoothing. Novice users can use the automated suite without any prior training using the user-friendly GUI while professionals can use individual modules. The suite also contains advance tools and scripts/macros for batch processing and tailored solutions.



High Accuracy Outputs

After a long and rigorous R&D, we have successfully developed efficient algorithms to achieve survey-grade accuracy using high-speed GPU and core based processing. There is no data size limitation for processing and analysis. It produces cartographic products, including Digital Surface Models (DSMs), Digital Elevation Models (DEMs), and Ortho Rectified Imagery with accuracy report. A user can export final output in different formats like Raster DEM, vector 3D points and 3D Mash/TIN for further visualisation and analysis.



DEM Photogrammetry Modelling, Editing and Analysis

IGiS Photogrammetry suite provides a wide array of tools to process and analyze DEM/DTM and 3D photogrammetry point vector data. Seamless mosaicing for advanced visualisation and analysis is carried out by DEM and 3D Point Mosaic tools. An advance analysis can be done using tools like DEM to Contour, Volume Calculation, 3D Change Detection, DTM to DSM, Slope, Aspect, Hill-Shade, DEM hole-fill and smoothing.

About SGL

Scanpoint Geomatics Limited is a leader in the Indian Geomatics Industry. We pioneer the nation's geospatial domain through IGiS - an indigenous technology which brings GIS, Image Processing, Photogrammetry and CAD together on the same platform. Based out of Ahmedabad, as Team SGL, we strive to provide innovative, futuristic and cost-effective products.

IGiS caters to a multitude of solutions across industries like Agriculture, Defence, Forestry, Disaster Management, Land Information, Mining, Power, Smart City, Urban Planning, Utilities and Location Based Services.

With the vast number of possibilities and opportunities presented by the field of Geomatics, our mission is to shape the future of a "GIS-enabled India".

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Government of India | Department of Space
Indian Space Research Organisation

Product Development Partner

At, Scanpoint Geomatics Limited, we are most proud of our partnership with the Indian Space Research Organization (ISRO). With an innovative approach and a focused attention to details, the duo developed IGiS - India's first independent and integrated platform for geospatial industry. The partnership has resulted in the integration of GIS, Image Processing, Photogrammetry and CAD on the IGiS platform. Backed by ISRO's domain expertise, we aim to push forth innovation and uplift the global geospatial domain.

Make in India

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