GXL

High-Volume Production Software

GXL is a geospatial image-processing powerhouse designed to leverage modern computing hardware unlike any other system on the market. Built around automated ortho-mosaic and DEM workflows with unlimited scalability, GXL will increase your throughput to help you realize revenues faster than ever before.

GXL addresses industry needs for high levels of automation and production capacity; resulting in a substantial improvement in speed and efficiency over traditional image-processing techniques. GXL systems are designed to grow with you, making full use of the computing resources available. Processing nodes can be added and removed as needed, allowing your system to be optimized to your production requirements.

Pixel-perfect output can be obtained in record time for any satellite and aerial image format. Exponential increases in production throughput can be achieved while maintaining accuracy and image quality that is second to none.

At Right: Improved color balancing takes the guesswork out of creating truly seamless mosaics.

Color Balancing

In GXL, a bundle method was developed to produce an accurate color balancing model. Seamless mosaics can be produced regardless of seasonal anomalies, time-of-capture differences, or even differences in imaging sensors. Furthermore, the desaturation tool effectively and efficiently reduces hotspots generated from highly reflective objects in your imagery.

At Left: GXL's Desaturate tool makes quick work of washed out "hotspots" in your imagery.

Benefits and Features

Better Mosaics
GXL's color balancing and cutline methods produce stunning results quickly and automatically, reducing the need for touch-ups and reprocessing. Manual editing is fast, simple and effective.

Higher Accuracy
Sophisticated aerial and satellite workflows provide pixel-perfect results. QA tools allow you to inspect products at chosen processing breakpoints, ensuring you're getting the quality you need.

Greater Productivity
With a web-interface for job management, you can create and monitor jobs remotely and through email notifications. Automatic load-balancing distributes work across any number of connected nodes.

Multi Sensor Processing
Aerial cameras and scanners are supported, along with both legacy and the latest commercial satellites. Additional polarimetric SAR options and automatic DEM extraction and filtering is available for various sensors.

More Features

Bundle method feature produces more natural color balancing for flawless mosaics.

Airphoto bundle adjustment gives increased control, accuracy and model calculation for larger projects.

Intuitive Quality Assurance tools ensure excellent results.

Automated Accuracy Assessment uses image-matching techniques to automatically collect check points between input ortho images and control images for improved accuracy.

Live DEM Editing allows real-time touch ups of extracted DEMs for faster, more intuitive, editing.

Open Architecture lets users integrate other workflows easily without having to purchase a complete new system.

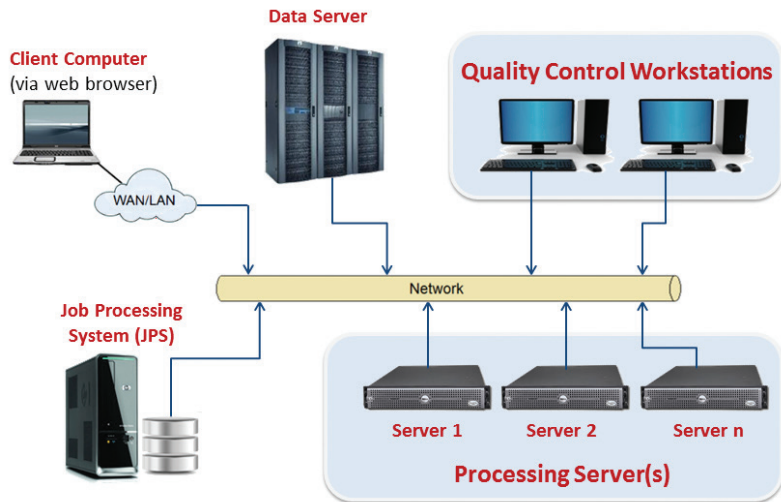Multi-User Access via web browser increases productivity and improves QA.

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Improved Workflows

At the heart of GXL lies the Job Processing System (JPS). This unique interface allows for the scheduling of processing jobs of up to thousands of images, whether on a single server or distributed hardware architecture. Functionality in GXL includes the ability to chain jobs together for even greater efficiency, while the improved email notification system minimizes downtime by delivering vital information to operators and managers in real time. The intuitive interface of the JPS allows users to fully control the speed and automation of processing to deliver more, in less time, and at a lower cost.

Above: Intuitive job management puts you in control

Accurate Results that Deliver

With GXL, speed does not come at the cost of quality. Along with improved quality assurance tools that allow you to inspect output at any point in the process, GXL delivers optimal output quality with improvements in DEM extraction, better tie-point collection and automated cutline generation, as well as stereo GCP collection and airphoto bundle adjustment algorithms.

GXL delivers a rapid return on investment in a scalable package suitable for any sized operation. Learn more about GXL by visiting www.pcigeomatics.com/GXL today.

Above: Deliver flawless mosaics in hours - not weeks or days.

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