

ImageStation® PixelQue

ImageStation PixelQue is a unique application that can help you save time and money throughout the orthophoto production process. Addressing four key needs in the orthophoto production pipeline, ImageStation PixelQue enables you to:

- Systematically inspect and perform quality control on images
- Perform raster edits
- Enhance orthophoto images and mosaic tiles
- Define and apply tone-balancing look-up tables (LUTs)

ImageStation PixelQue combines all these finishing tools into one package and tailors them for production, helping you streamline your orthophoto finishing process. By using a streamlined, semi-automatic quality assurance/quality control (QA/QC) review and edit process, ImageStation PixelQue increases throughput and efficiency of orthophoto production. You can produce more orthophotos and significantly reduce the time and costs for all of your projects.

With its flexible band display capabilities, ImageStation PixelQue allows you to work with four-band data without stripping apart the image or losing the georeferencing data. You can even edit overlapping images simultaneously. This lets you modify all the bands you want while also improving turnaround time. In addition, the ability to read and write BigTIFF format files gives you the flexibility you need to manage the continuing growth of photogrammetric industry projects. PixelQue also supports imagery from 8-bits to 16-bits per band.

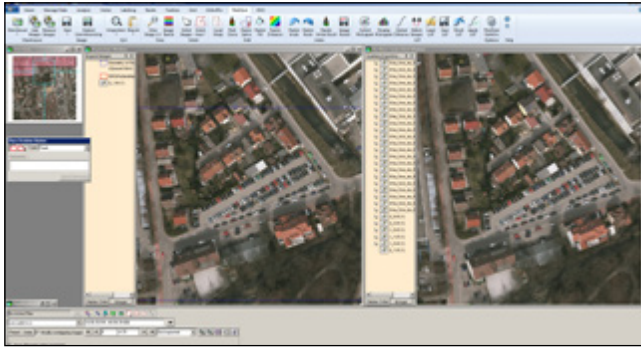
ImageStation PixelQue works with either georeferenced or non-georeferenced images, so you can make edits or enhancements at any point in the orthophoto production process. This brings additional flexibility to your workflow. You can also embed external georeferencing into the image file as GeoTIFF tags, which eliminates the need to keep up with a world file, and lets you create more intelligent images for transportability. Automatic detection and use of the first image's georeferencing data for the entire project saves valuable setup time.

You can improve project cost estimates with better metrics, such as options that let you track and report operator time during the inspection and editing processes. The ability for multiple users to review and edit projects simultaneously saves you valuable time and eliminates data redundancy.

ImageStation PixelQue Toolset

- Image Inspection and Review – Offers systematic and efficient QA/QC of images and orthophotos
- Structured Inspection and Review – Provides guides for you to inspect all parts of the orthophoto in a structured manner
- Mark-Up Problem Areas – Mark problems found during inspection and add comments to indicate the type of problem for later correction
- Review Problem Markers and Queued Editing Functions
- Drives you to marked problem areas for correction
- Image Editing – Correct blemishes, warps, and other problems
- Supports 1-, 3-, and 4-band images with 8- to 16-bits per band
- Edits RGBN bands simultaneously, and applies full- resolution edits to the entire image pyramid structure automatically





ImageStation PixelQue Commands and Structured Inspection Guide

- Fast saving of edited images, as it only saves modified full resolution and pyramid tiles
- Maintains georeferencing on save
- Select Area – Defines which pixels of a raster are to be used as the source and/or target for any given edit
- Pixel Clone – Provides dynamic interactive raster copying with geographical synchronization of source and target brushes
- Local Warp – Corrects perspective distortions using real-time raster dynamics with flexibility to easily warp features of any shape
- Raster Splice – Offers opacity and gradient options for precise copying of raster data from one image to another
- Raster Fill – Fills an area of an image with a solid color, with opacity and gradient options for greater flexibility
- Undo/Redo – Gives you the ability to undo raster editing commands that may have produced undesired results, and redo an operation that has been undone
- Undo Brush – Undo raster edits by cloning from the last saved image state
- Image Revert – Returns an edited image to its last saved state
- Image Enhancement – Brings together a range of functions to adjust the radiometry of either a single image or group of selected images/orthophotos
- Raster Enhance – Dodge, burn, saturate, desaturate, and modify color balance
- Collect and Display Histogram – Collects and displays single (cumulative) or separate image histograms
- Global Enhancement – Uses the integrated ImageStation Digital Image Analyst (ISDIA) product to display histograms and improve images by making gamma, color balance, and tonal changes
- Match Images – Matches selected images with a reference image to improve consistency

- Look Up Table (LUT) – Applies desired attributes from external file(s), preview them in an image, and then applies them across a selected area or entire project
- Load LUT – Loads LUT(s) and updates image display
- Save LUT – Saves a stretched image's LUT(s) to external file(s)
- Reset LUT – Sets an image's LUT(s) back to original LUT
- Apply LUT – Applies LUT(s) to selected images to create new images
- Burn Features - Burn vector data such as text, contours, and features into images

Requirements

GeoMedia® Essentials, GeoMedia Advantage, or GeoMedia Professional tier.

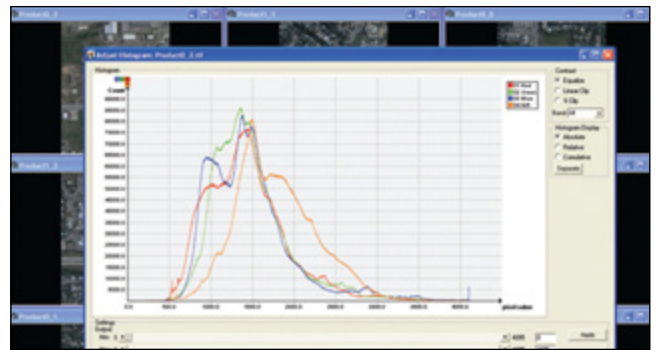


Image Enhancement Stretching Tools – Equalize Option

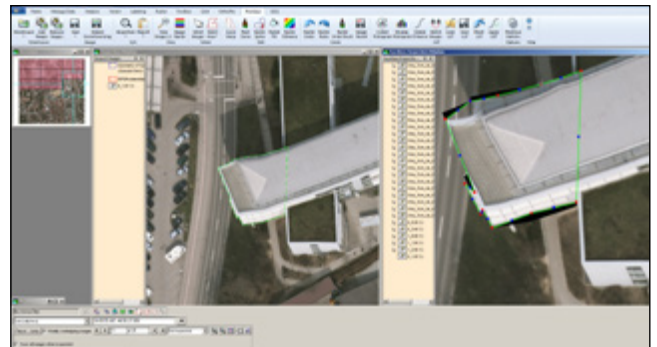


Image Editing Tools – Local Warp Option

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About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications. Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's Geospatial division creates leading platforms, applications and solutions for visualizing, analyzing, and deriving insight from location data. By interconnecting the geospatial and operational worlds, we help customers of all sizes – from sites to cities to nations – use 5D location intelligence to solve real-world, mission-critical challenges.

From snapshots in time to real-time streams, our technology enables autonomous connected ecosystems that deliver reliable, repeatable location information. We shorten the loop from data acquisition to action, helping clarify what was, what is, what could be, what should be, and ultimately, what will be, so we can build a thriving, sustainable world.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 4.3bn USD. Learn more at hexagon.com and follow us @HexagonAB.