



OrthoVista

Bringing it all together – no patchwork, but seamless, homogeneous mosaics.

OrthoVista is the most powerful professional mosaicking product world-wide. It utilizes advanced image processing techniques to automatically adjust and combine orthophotos from any source into one single seamless, color-balanced mosaic.



OrthoVista plays a leading role in automatic radiometric image adjustment and automatic seam detection.

OrthoVista automatically compensates for a wide range of image intensity and color variations originating from the imaging process.

OrthoVista computes radiometric adjustments that compensate for visual effects within individual images, such as hot spots, lens vignetting or color variations.

Further, **OrthoVista** performs a block-wide color balancing through adjusting adjacent images to match in color and brightness. Multiple orthophotos are combined into one seamless, color balanced and geometrically perfect orthomosaic. Large blocks of thousands of orthophotos can be processed without any subdivision.

The new fully-automated seamline finding algorithm detects man-made objects, and thus provides high-quality results even in urban areas. As a consequence, manual seamline editing is reduced drastically.

The resulting seamless and color-balanced mosaics provide users with the highest radiometric and geometric quality.

OrthoVista improves the efficiency, quality and profitability of digital orthophoto mosaic production.

OrthoVista and OrthoMaster are bundled in our OrthoBox offering unique performance.

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Features

- Handles orthophotos from any source.
- Powerful intra-image tools for automatic:
 - Reduction of lens vignetting effects
 - Reduction of hot spot effects
 - Reduction of radiometric variations
- Powerful inter-image tools for automatic:
 - Block-wide balancing of color and brightness (individual image characteristics preserved)
 - Automatic removal of sun reflections on water areas
 - Global color and contrast adjustment for correction of radiometric tilting
- Radiometric image enhancements:
 - Interactive adjustment of intensity and contrast
 - Interactive adjustment of color and color saturation
 - Interactive modification of gradation curve for adjustment of brightness, contrast and color
 - Automatic histogram adjustment
- Versatile seamline functionality:
 - Fully automatic seamline detection
 - Interactive seamline definition and editing
- Automatic feathering functionality:
 - Automatic adaptive width of the seamline
 - Narrow seam in "urban canyons"
 - Wide seam in open terrain
- Automatic tiling of the mosaic:
 - Mosaic is cut into map sheets
- Flexible processing procedure:
 - Processing steps done independently
 - Processing steps combined with each other
- Excellent processing capacity:
 - Handles very large orthophoto blocks
- Support for multi-channel imagery.
- Input georeference formats:
 - GeoTIFF, TiffWorld (tfw)
 - ER Mapper ERS, Zeiss inp, Vision RPT

- Image formats:
 - TIFF, TIFF JPEG, ADS (input only)
 - With 8-12-16 bit,
 - Multi-channel imagery supported, with optional output of RGB or CIR
 - BIP, BIL, BSG
- Support for batch processing.
- Unique true-ortho functionality in combination with INPHO's OrthoMaster product.

Options

- OrthoVista SE
 - Seam editor for interactive mosaic editing and manual seamline definition, is also available as a stand-alone tool.

Benefits

- Increases the efficiency, profitability and quality of digital image mosaic production.
- Improves the quality, utility and value of your digital imagery and minimized user interaction.
- Maximizes production profitability through fully automated workflow.
- No extensive training required by employing easy-to-use software.
- Easy integration into any third-party workflow.

Recommendations

- High-end PC workstation
- 4 GB RAM
- High-capacity disk system
- Windows Vista/XP/2000, 32 or 64 bit, Linux

