OPK Blend



Menci Software

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OPK Blend is a tool specifically developed for orthomosaic generation, RGB and IR images color balancing and also intelligent editing and automatic seamlines generation. This package allows user to save time during the mosaicking due to low demand for user intervention and high automation of the calculation, more a way of dividing the entire dataset process among multiple clients in order to parallelize the calculations and save time.

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Main Features: Blend Server

Features	
Import and process orthophoto	NO limits
Coordinate system editor	\checkmark
Import Tile	$\overline{\checkmark}$
Import Limits	\checkmark
Multi-channel images handling: RGB+IR	$\overline{\checkmark}$
Automatic orthophoto RGB colorimetric balancing	\checkmark
Automatic orthophoto IR radiometric balancing	$\overline{\checkmark}$
Seamlines automatic generation	\checkmark
Seamlines manual correction	$\overline{\checkmark}$
Automatic geometry compare with previus ortho-mosaic	\checkmark

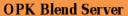
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Features and Workflow: Blend Server

- No limits to import and elaboration orthophoto
- Automatic data saved
- Automatic report generation
- Single-DataSet or multi-DataSet elaboration
- Activate/Deactivate orthophoto
- Multi-channel orthophoto handling (RGB + IR)
- Coordinate projection editor
 - * Projectum
 - * Datum
 - * Fuse
- Tile importation
- Limits importation
- Orthophoto, Tile or Task visualization
- Orthophoto, Tile and Limits activate/deactivate visualization
- Custom orthophoto color balancing
 - * Color Propagation
 - * Template on Standard Reference Dataset
 - * Template on Custom Dataset
- IR radiometric balancing
- Color balancing RGB preview
- Radiometric balancing IR preview
- Automatic seamlines generation
- Advanced routing of seamlines generation
- Seamlines manual editing
 - * Point to point
 - * Detour
 - * ByPass
- Automatic generation of "Map of deviation"
- Multi Task definition process
- Log visualization
- -Shortcut and/or command line input
- Activate/Deactivate Tile
- Orthophoto viewer







 $File \rightarrow New$

Add Images

Assign to DataSet Assign to Strip Browse For Images → Import → Done

Coordinate System

Projection Datum Fuse Verify (facultative)

Input Data \rightarrow Tile

Input data \rightarrow Limits (facultative)

Preview → Color balancing

Preview → RGB Preview

Preview → IR Preview

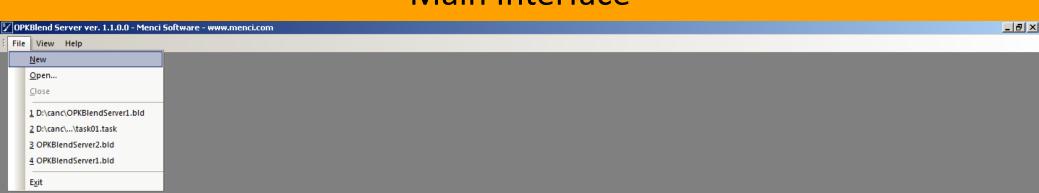
Seamlines → Seamlines

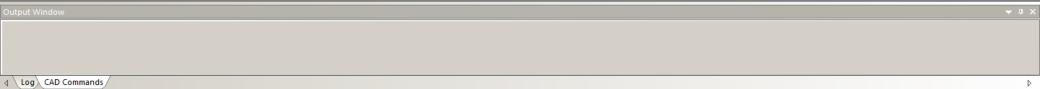
Next → Detour e/o Bypass (facultative) → Validate

Reference Image for Geometry Compare (facultative)

Define Task

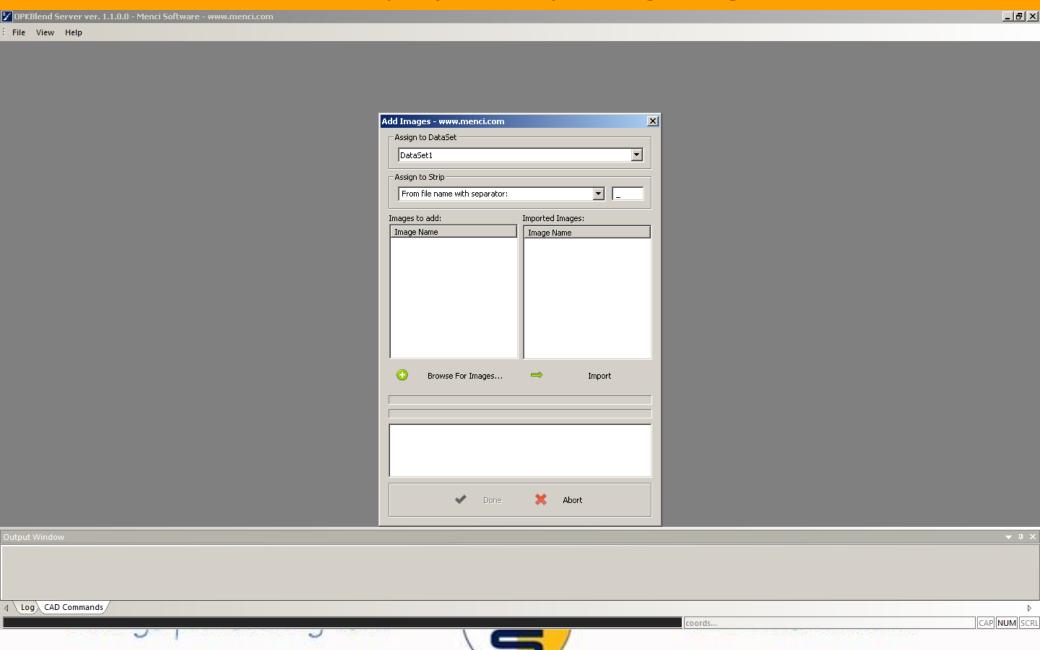
Main Interface



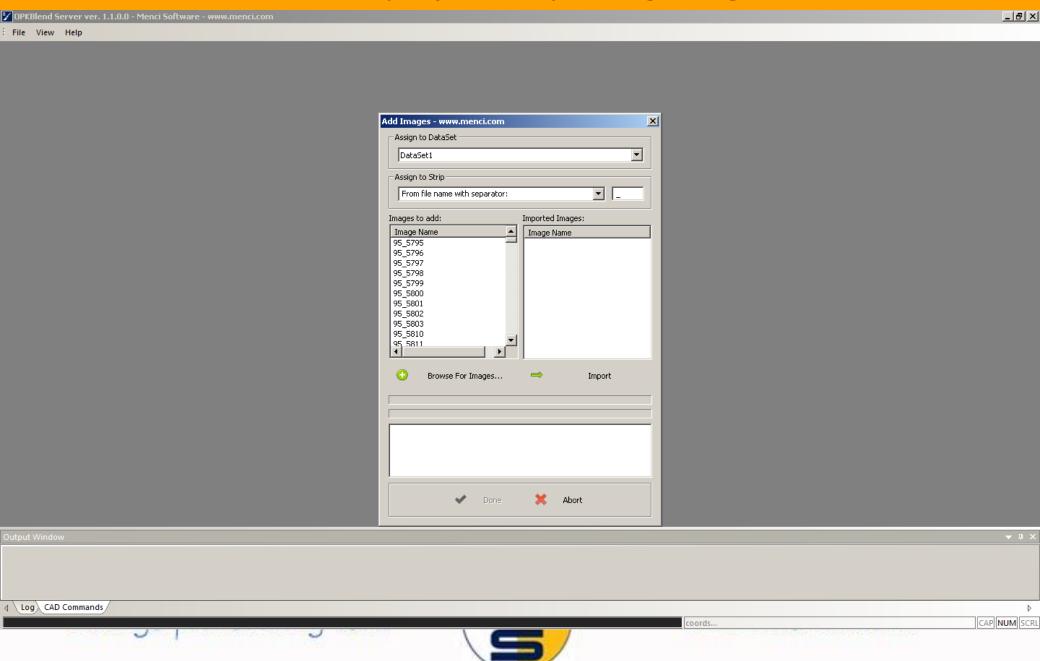


CAP NUM SCRL

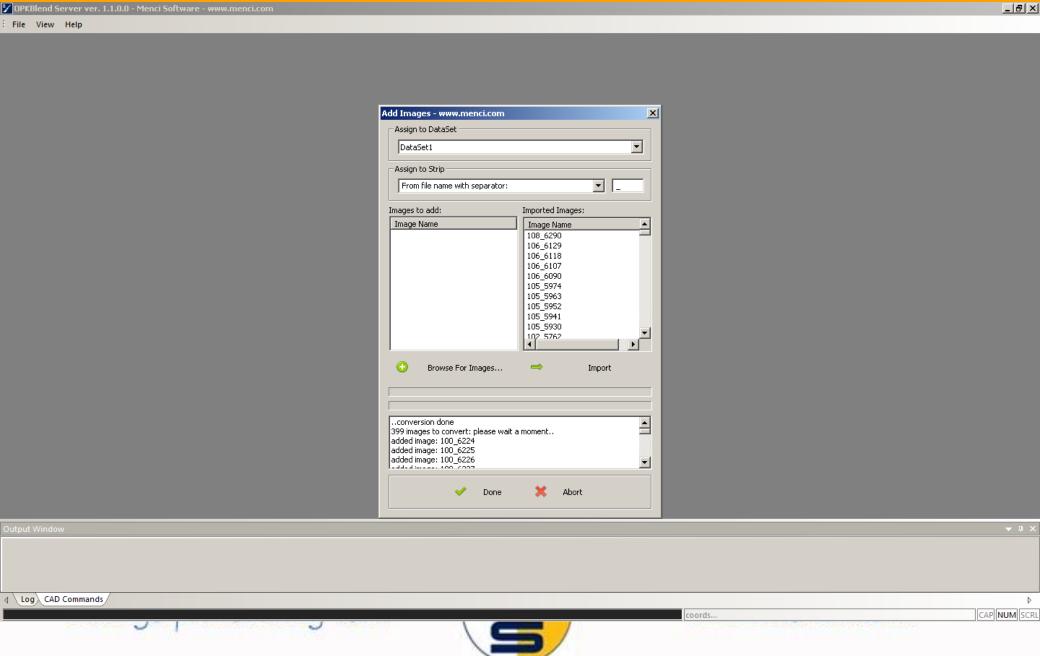
Create new project: importing images 1/3



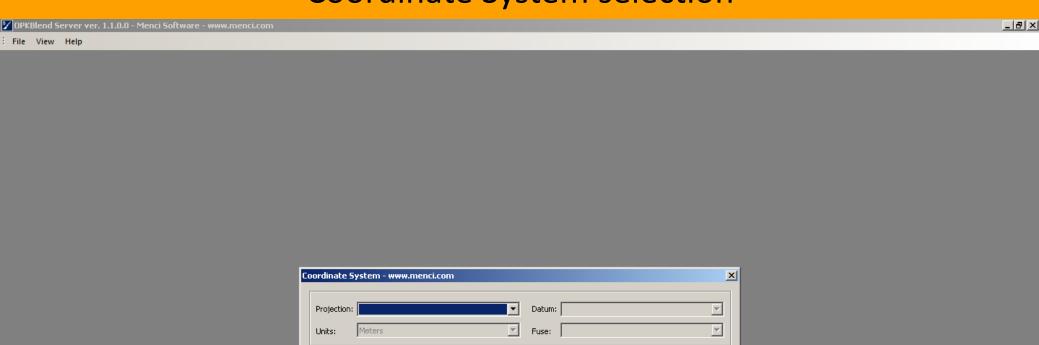
Create new project: importing images 2/3



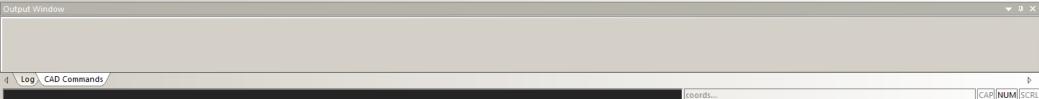
Create new project: importing images 3/3



Coordinate System selection

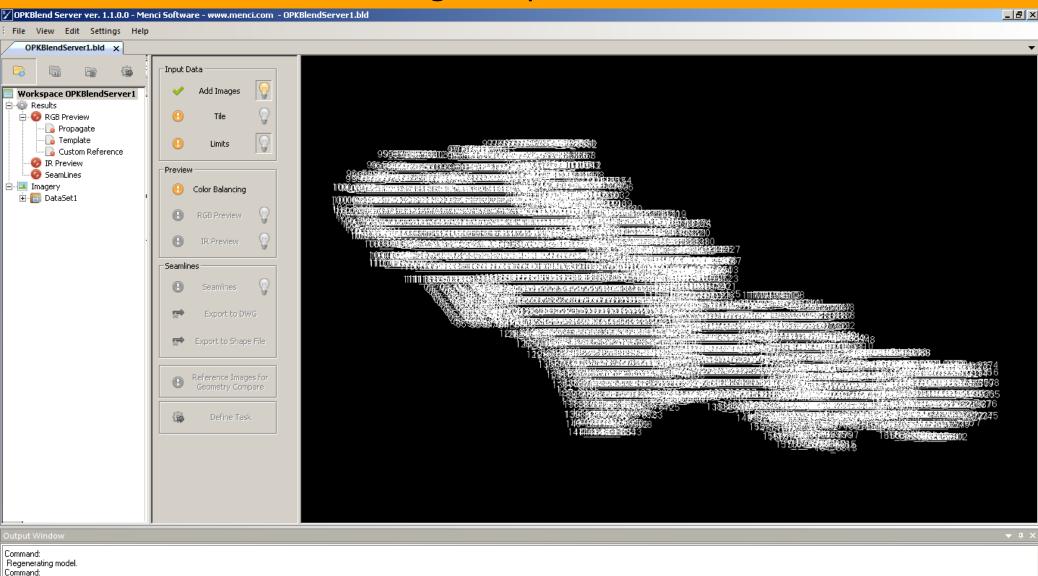






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Images importation

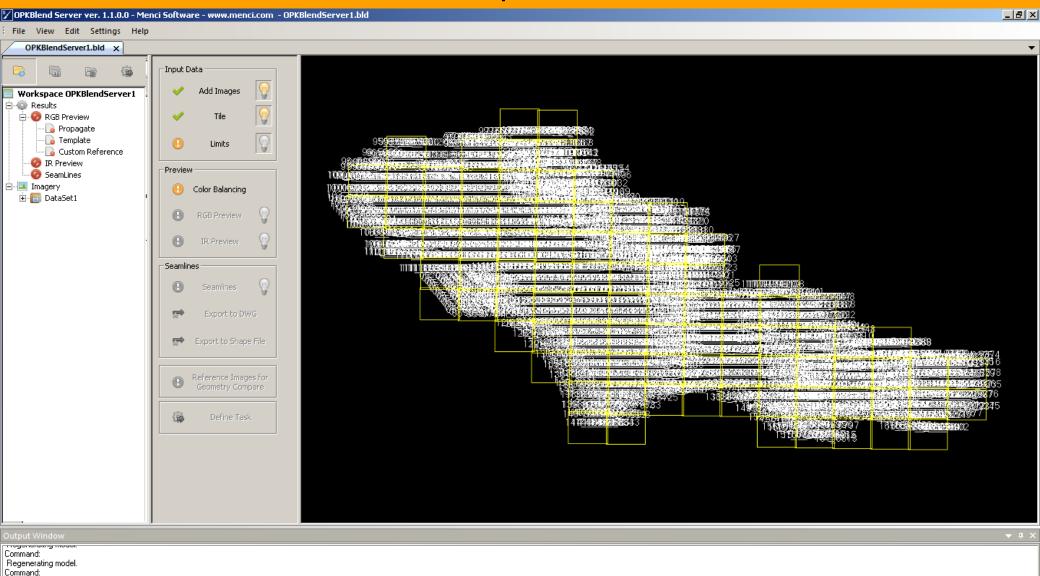


5

Regenerating model. Command: |

√ Log \ CAD Commands,

Tile importation

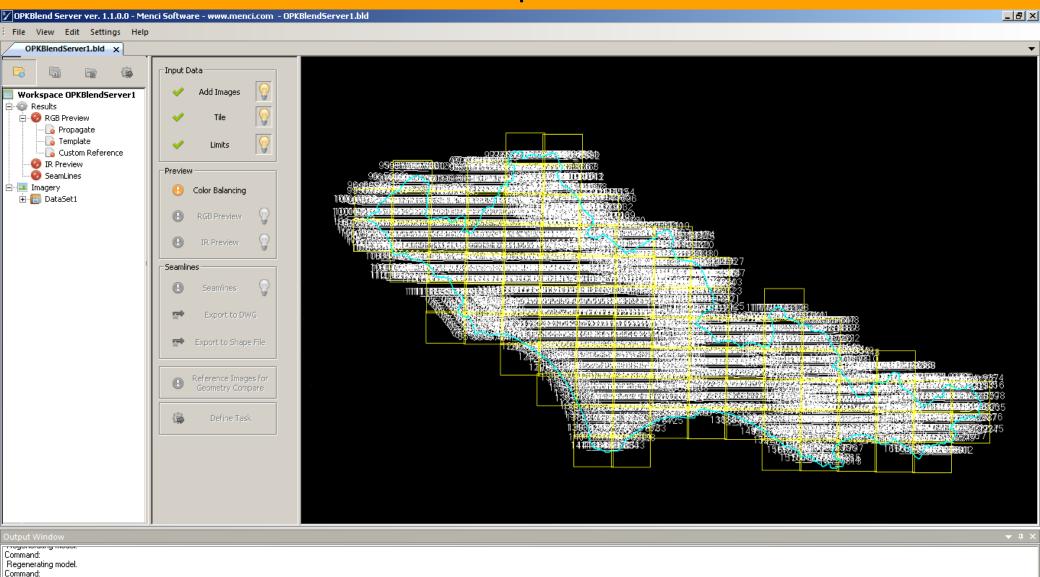




Regenerating model.
Command: |

√ Log \ CAD Commands.

Limits importation



5

Regenerating model. Command: |

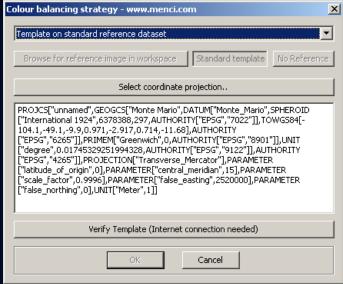
√ Log \ CAD Commands.

Color balancing strategy



Color propagation:

using this option user can select a brightness level which make the color balance, or select a reference image among those in "Dataset" and make the color balance of the latter. Also for the latter option is possible to vary the brightness.



Template on standard reference dataset: with this algorithm user can select a "standard template" under which the software carries out the color balance. This option requires an Internet connection to confirm the accuracy of the coordinates chosen.



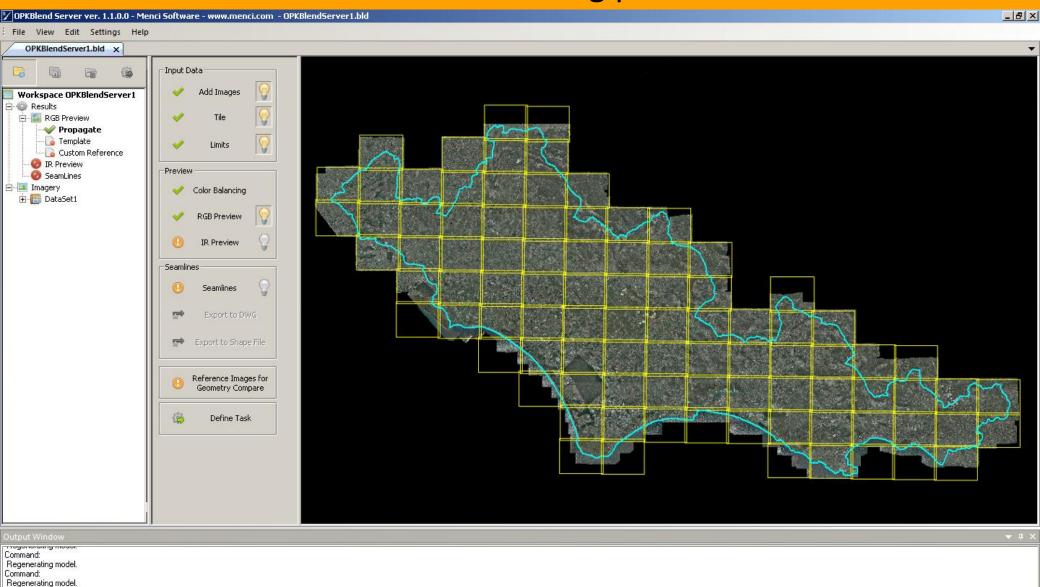
Template on custom dataset:

using this template user can select an image (of the same geographical area) of which consider optimum color balance, software will then perform the color balancing based on this image.

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RGB color balancing preview



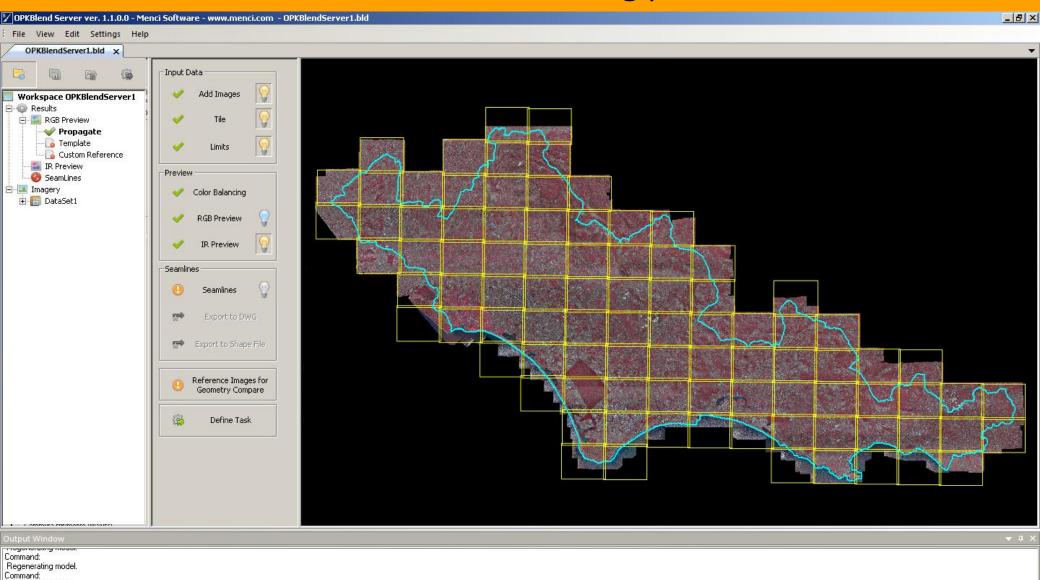
5

Command: |

↓ Log \ CAD Commands,

CAP NUM SCRL

IR radiometric balancing preview



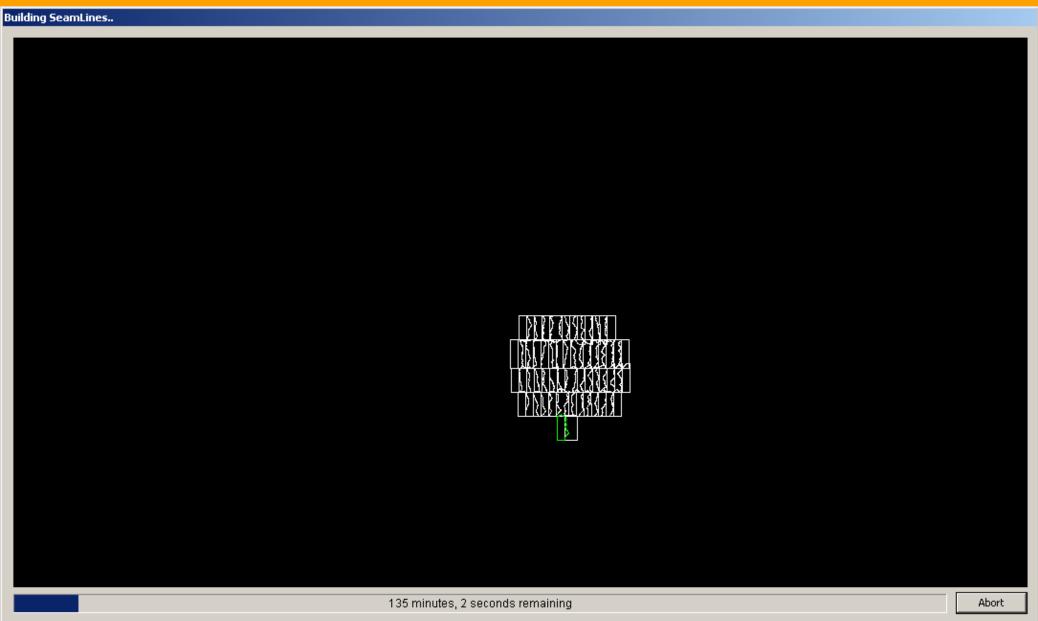
CAP NUM SCRL

Fround: 2387104.4,4570976.5

4 Log CAD Commands

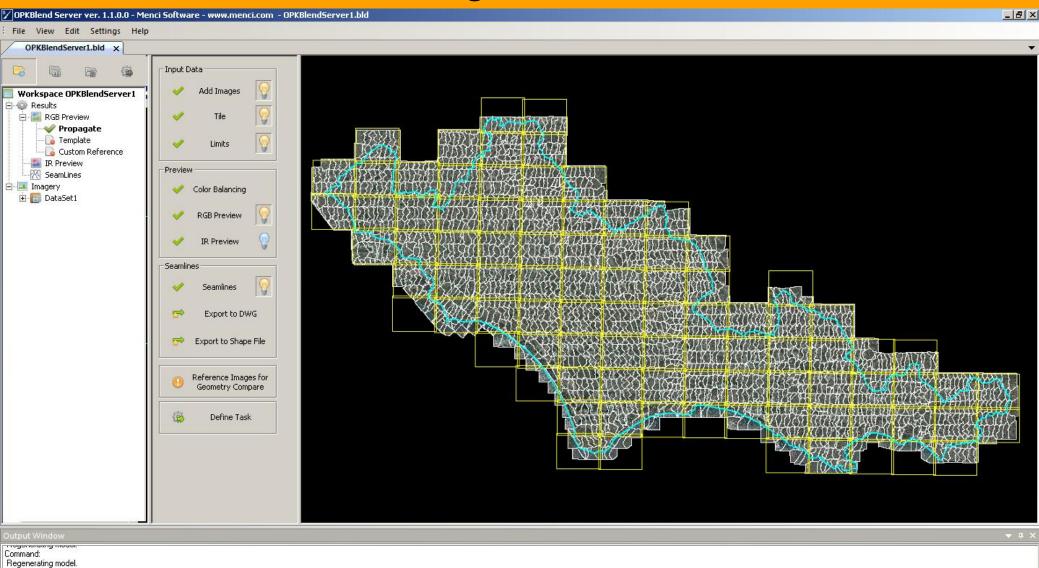
Regenerating model. Command: |

Automatic Seamlines generation





Seamlines generation: result

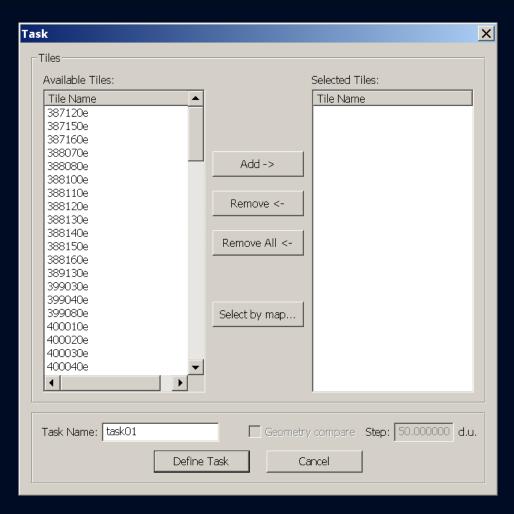




Command: Regenerating model. Command: |

↓ Log \ CAD Commands,

Task definition



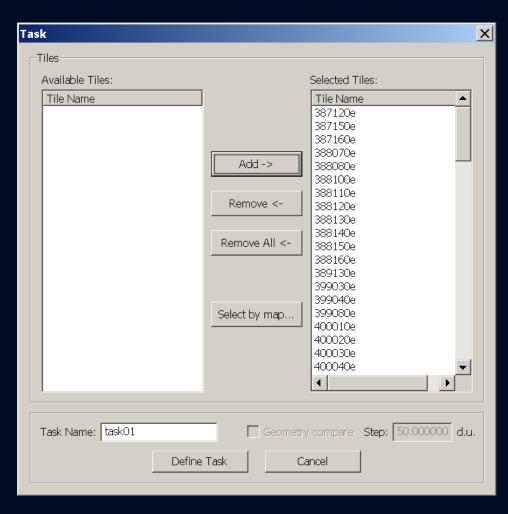
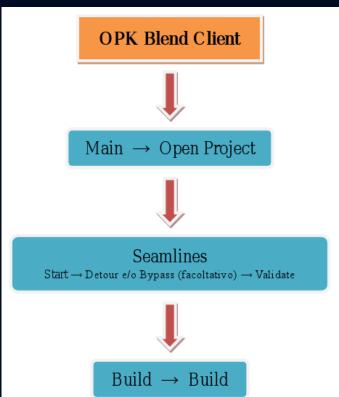


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Main Features: Blend Client









Main interface: open project (Task)

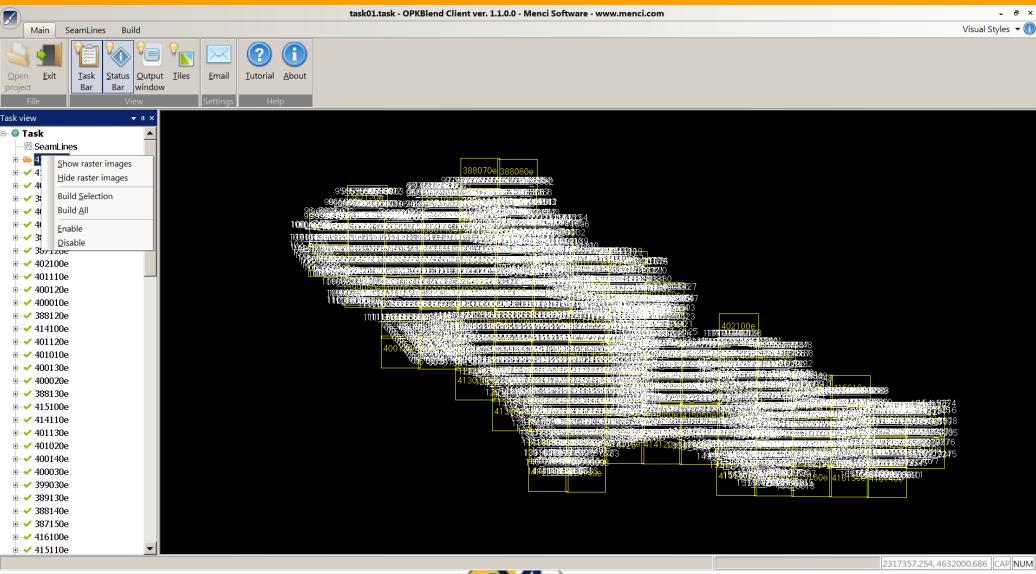
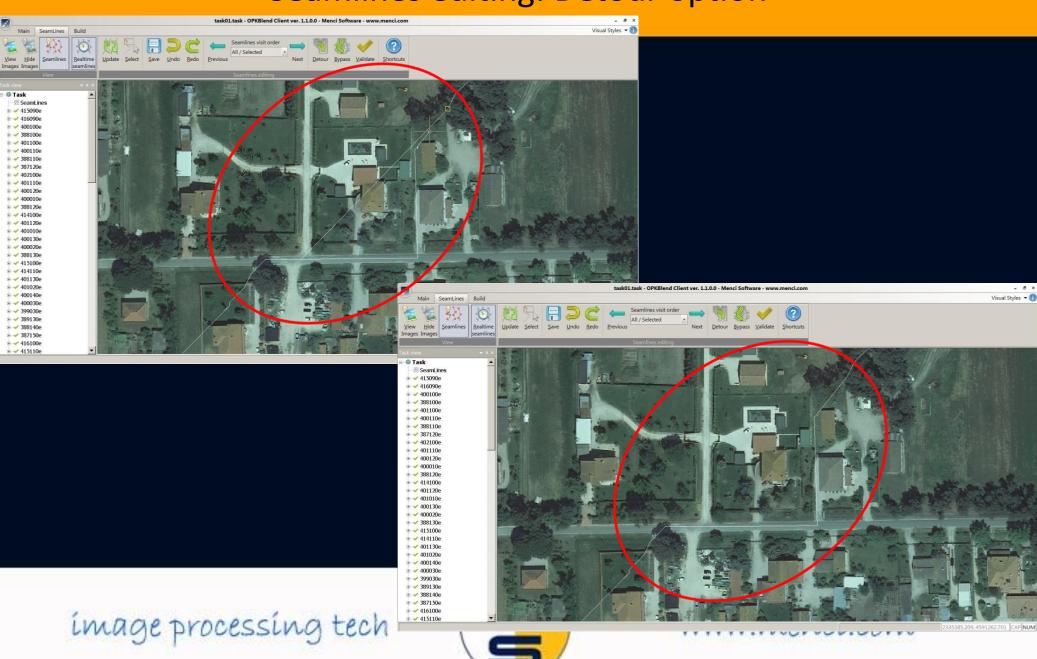


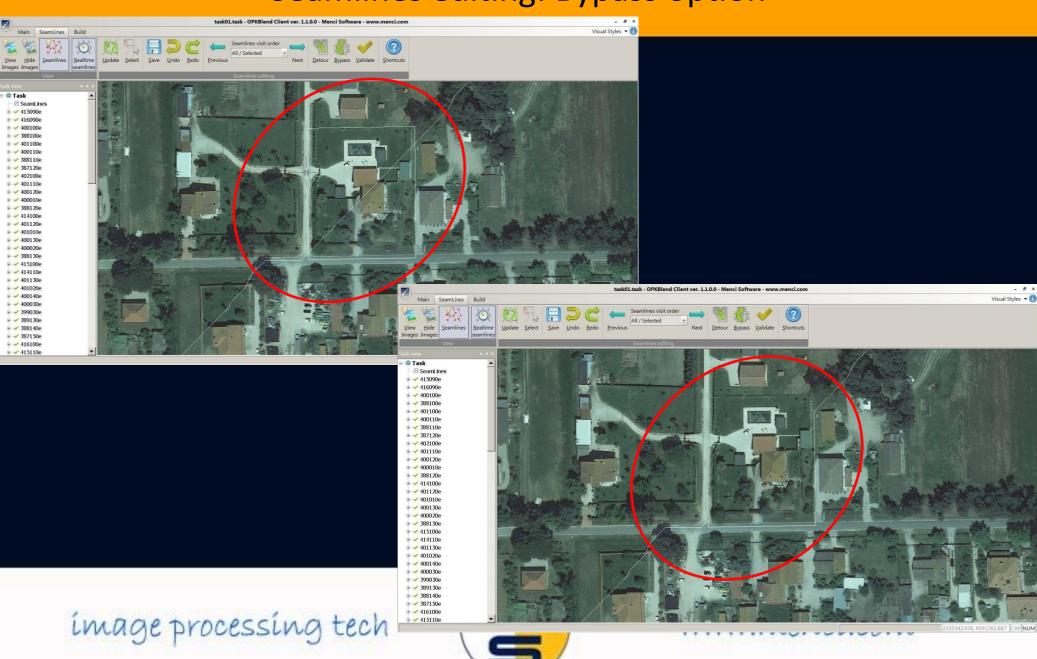
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Seamlines editing: Detour option



Seamlines editing: Bypass option



Orthomosaic generation: 1/3

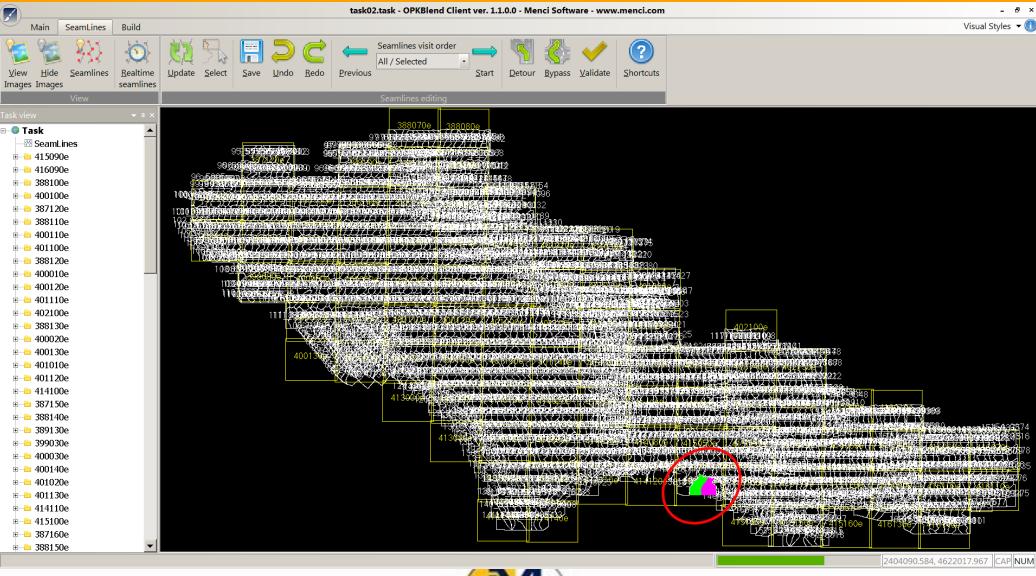


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Orthomosaic generation: 2/3



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Orthomosaic generation: 3/3

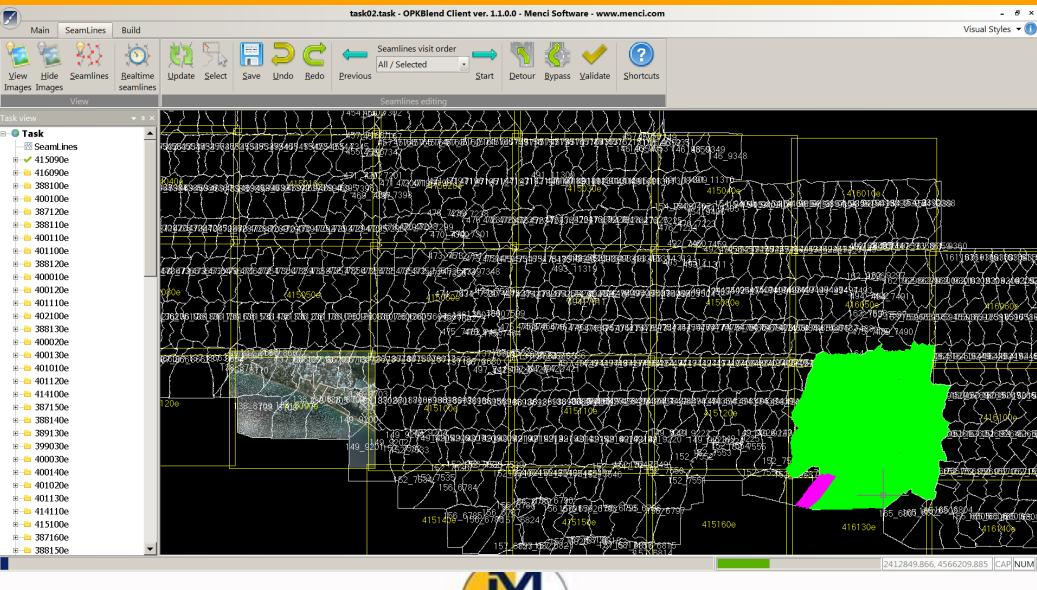


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Orthomosaic generation: reult 1/2

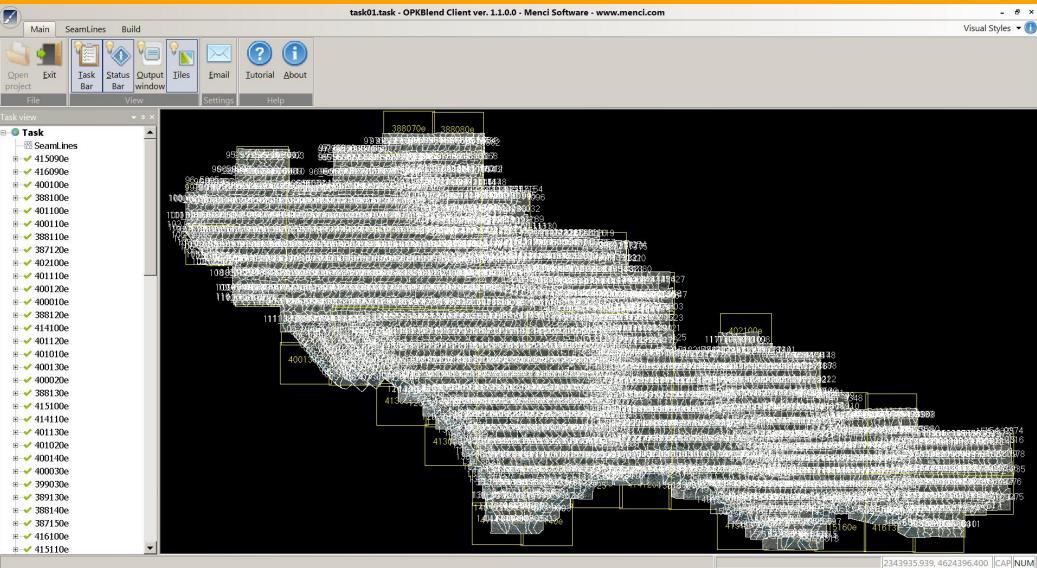


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Orthomosaic generation: reult 2/2

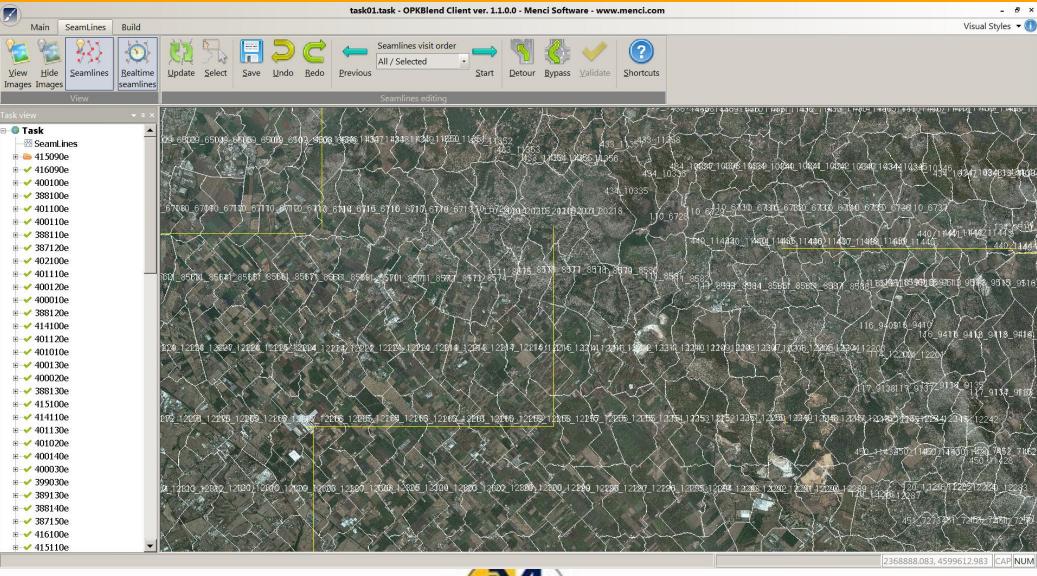


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LAN network project management

