



# PHOTOMOD 7.51.4520-8.0.4846

## New functions

### General

- DPW PHOTOMOD for the Astra Linux 1.7.x operating system
- Import/export of adjacent projects in Block Exchange XML format
- Compensation for the effect of Rolling Shutter
- GPU support in PHOTOMOD Conveyor
- A new 3D-window with the ability to open all types of data
- New selection modes in the LAS-viewer
- LAS buildings and vegetation filter
- Improving the quality of the neural network classification of the point cloud
- Work directly with PhaseOne IIQ images

### Aerial triangulation

- Use correlator by absolute value in the Area correlator settings
- Fixed error where the derivative for physical distortion was incorrectly calculated
- Fixed error when Y-parallax values were not displaying in the «Triangulation points» window with the «Points on open images» mode
  - Fixed error that caused a Windows system message appeared when working with the Relative Orientation Report
  - Fixed error when the distance to the nearest points was not taken into account when using the Area correlator

### Satellite imagery

- The function of Image compression when using batch Pan-sharpening
- Lee filter to reduce «graininess» in images in the Radiometry window and Raster Converter
- New Pan-sharpening window
- Pan-sharpening Support for SkySat data
- Support of the new version of the GaoFen-7 sensor
- Support of the new version of the SuperView data
- Support of the new version of the « StilSat » data
- Export several MID/MIF files in the “Add pushbroom images” window
- Fixed the Pan-sharpening with georeferencing for «StilSat» data



- Fixed error where incorrect Pan-sharpening results taking into account the background color
- Fixed error in GaoFen-7 satellite data reading
- Fixed error displaying data in the «Image list...» window for satellite projects
- Fixed display of the ID when adding satellite images to project
- Fixed unit recording when exporting to MIF/MID format

## **Orthorectification and mosaics**

- Option to use the Height above ground as a DTM type
- Updating saved tags in GeoTIFF
- Taking into account of useful areas when determining the sheets boundaries
- Fixed error of incorrect display of the background color of the output orthophotos during preview
- Fixed the error of displaying transparent background color
- Fixed error that caused the double sheets to shift in longitude for Northern latitudes during Split into sheets
- Fixed error when the moving buttons for DEM layers didn't work during orthorectification
- Fixed error in the «Redraw preview on editing» option in GeoMosaic
- Fixed error where there were two identical commands on the GeoMosaic toolbar
- Fixed error when after orthorectification into the PZ-90.02 coordinate system the image shifted relative to the terrain

## **Digital terrain and surface models**

- New classes for point clouds
- Ability to display only selected point cloud classes
- Option to overwrite point «intensity» attribute when colorizing a point cloud Option to delete «invisible» points in the cloud during colorization
- Option points (LAS) color from orthoimage when convert DEM to point cloud
- Speeded up the work of the «Merge DEM...» window
- Fixed the operation of the «Transform to another coordinate system...» window
- Fixed error where the DEM size was not updated when changing GSD
- Fixed error of displaying the histogram based on the DEM
- Fixed Smooth interpolation of a DEM within the boundaries of selected polygons
- Fixed error when the «Offset of sheet» parameter was not taken into account during Split DEM into sheets
- Fixed error when using the DEM editing option “Cut inside area”
- Fixed error in recalculating the output pixel of the DEM when transforming from the UTM Coordinate System to Latitude-Longitude



- Fixed error when the boundaries of the DEM were calculated incorrectly when transforming to another coordinate system for northern latitudes
- Fixed error where filter by number of returns for a point cloud does not find source files

## **Stereovectorization**

- Optimized column width in the Classifier window
- Option for attributes— assign height by DEM
- Removed limits for numeric fields in parameters of the buffer zone of vector objects
- Fixed error when the World Atlas was not created as a vector layer
- Fixed error when values were not added for an attribute of integer type
- Fixed error when the “Color by attribute value...” option did not work
- Fixed the table format in the “Correct topology of selected point” window
- Fixed error when vectors were exported to the wrong format
- Fixed the format of recording coordinates when exporting vectors to CSV format
- Fixed error in the “value” field for a text attribute of a vector object

## **2D and 3D windows**

- Synchronized palettes for the 2D and 3D windows in the block scheme

## **3D modeling (PHOTOMOD 3D-Mod)**

- Saving videos in MPEG-4 format
- Fixed error where editing black and white textures in the image editor was not supported

## **PHOTOMOD GeoCalculator**

- Function for calculating datum parameters
- Opening a web map with points entered into the GeoCalculator
- New logic for searching coordinate systems in GeoCalculator
- Opening GeoCalculator through the System Monitor context menu
- Added Uzbek coordinate systems
- Fixed error when importing coordinate systems with unspecified angle format

## **RasterConverter**

- Fixed error when the number of images in project was incorrectly displayed when distributed pyramid creation
- Fixed error when the GeoTIFF georeference was not written

## **Import/ Export**

- Fixed encoding of line template for Import/Export of CSV format



## **Project Manager**

- Added new web maps: Roscosmos Map, ESRI
- Profile list optimization
- Optimization of the context menu for the list of layers in the project
- Added Log cleanup setting
- Added display of the number of selected objects in the «Objects list» window
- Updated translation for the «Restore project» option
- Zoom in/ zoom out via hotkeys Ctrl+Alt+Mouse Wheel in triangulation point measurement window
- Removed limits for numeric fields in parameters
- Fixed a typo in the name of the LZW compression algorithm
- Fixed error when the DPW PHOTOMOD didn't start if there was a Cyrillic symbols in the installation folder name
- Fixed error when the hotkeys Ctrl + Alt + Mouse Wheel (Zoom in / Zoom out) for the block scheme did not work
- Fixed error when the PHOTOMOD Conveyor icon was not created
- Fixed error when trying to hide FastOrtho layer
- Fixed error when sorting images in the "Image List..." window
- Fixed error when the web-map «ESRI emagery basemap» did not load
- Fixed error in the "Zoom to fit" option from the context menu for the FastOrtho layer