

PHOTOMOD

Digital terrain models
for any application you could imagine



Spatial aerial
triangulation

Digital terrain models

2D and 3D-vectorization

Orthorectification
and mosaic creation

Map making

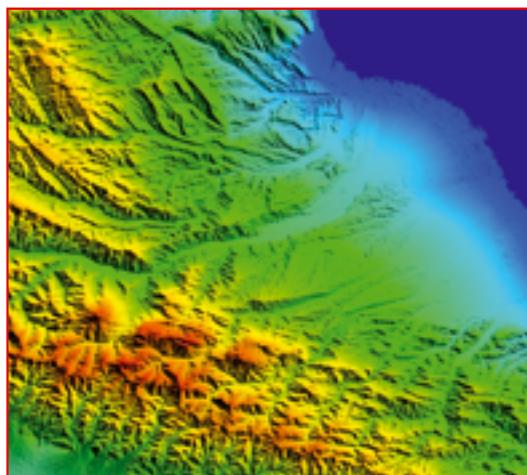
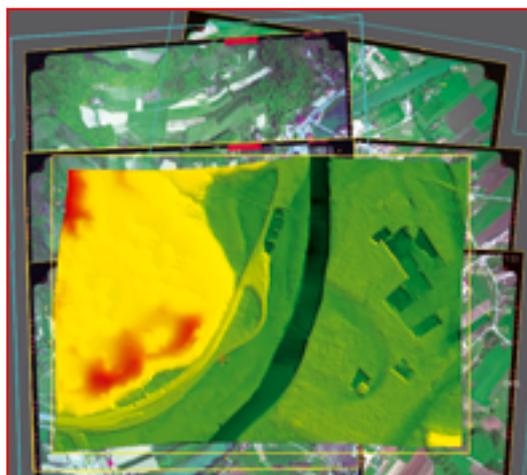
3D-modeling



PHOTOMOD allows the user to automatically create digital elevation models and digital surface models from aerial and satellite images. The digital terrain model created in PHOTOMOD ensures high quality of orthomosaic, and also serves as a source of detailed information about terrain relief and is used to solve analytical tasks. The program allows the user to represent a terrain using the

following ways: 3D points and lines, TIN, DEMs, and contour lines. Filters for digital terrain models editing, operations of DTM merging and trimming, analytic functions, and DTM building by using laser scanning data are also available. Using GPU-based calculations, distributed processing and support of 64-bit calculation for DEM building allows the user to increase the program performance significantly.

- Automated DTM building by using special presets (pre-defined sets of parameters) for various types of terrain
- Highly intellectual algorithm of "dense" DTM creation which calculates Z-value for each pixel of source images with a capability of final filtering and subsampling
- Different DTM representations:
 - 3D points and break lines
 - Triangulated Irregular Network
 - Digital elevation model
- Automatic filtering of objects located above the ground (buildings, trees, etc...)
- Set of filters for DEM processing
- Set of tools used for filling out the holes in DEM
- Merging DEMs by using different options of Z-calculation in overlapping areas
- Batch DEM calculation mode
- CUDA- technology and distributed processing for creation of unlimited size DEM
- Set of tools for manual stereo-editing with on-the-fly TIN rebuilding
- Automatic TIN thinning with keeping selected Z-accuracy
- Pathway manual mode of DTM creation
- 3D window used for viewing DTM along with raster textures at different angles and scales
- DTM transformation into selected coordinate system / map projection
- Several algorithms of contour lines creation
- Smoothing contour lines with automatic intersection control
- Control of contour lines by imported 3D points (for example field measurements)
- Import of lidar data with a capability of dividing to reflection levels
- Well-known vector and raster formats for import-export



Racurs provides unlimited technical support for its customers. Experienced software support specialists provide immediate professional help by phone, fax or e-mail.

Download Lite version of PHOTOMOD! The program is created to help familiarize with the systems features and functionality and allows you to perform test projects using your data.



Racurs
Moscow, Russia
+7 495 720 5127

<http://www.racurs.ru>
info@racurs.ru