

# User Manual

Racurs Company, Moscow, <https://racurs.ru>

Copyright © 2025 Racurs Company

## Help sections and their correspondence to PHOTOMOD 8.1 system modules

User Manual	File name	Short description	Module or program
Linux configuration and PHOTOMOD installation	<a href="#">install_Astra_Linux_1.7.pdf</a>	System installation (Astra Linux 1.7)	The PHOTOMOD distribution, corresponding the appropriate Linux distribution
	<a href="#">install_Astra_Linux_1.8.pdf</a>	System installation (Astra Linux 1.8)	
	<a href="#">install_ALTLinux_10.4.pdf</a>	System installation (ALT Linux 10.4)	
	<a href="#">install_RedOS_8.0.pdf</a>	System installation (RED OS 8.0)	
	<a href="#">install_AlterOS_9.6.pdf</a>	System installation (AlterOS 9.6)	
Linux configuration and PHOTOMOD UAS installation	<a href="#">UAS_Astra_Linux_1.7.pdf</a>	System installation (Astra Linux 1.7)	The PHOTOMOD UAS distribution, corresponding the appropriate Linux distribution
	<a href="#">UAS_Astra_Linux_1.8.pdf</a>	System installation (Astra Linux 1.8)	
	<a href="#">UAS_ALTLinux_10.4.pdf</a>	System installation (ALT Linux 10.4)	
	<a href="#">UAS_RedOS_8.0.pdf</a>	System installation (RED OS 8.0)	
	<a href="#">UAS_AlterOS_9.6.pdf</a>	System installation (AlterOS 9.6)	
General information	<a href="#">general.pdf</a>	Software and hardware requirements	Core
		Tools for work in stereo	System Monitor
		GUI and Main system windows	Control Panel
		Creating resources system and management of profiles	Explorer
		PHOTOMOD Raster Converter	Raster Converter
		Pan-sharpening operation	ParProc
		Distributed Processing	
		Format and path of project files	
Creating project	<a href="#">project.pdf</a>	Project creation:	Core
		<ul style="list-style-type: none"> <li>• type of project</li> <li>• coordinate System</li> <li>• data placement</li> </ul>	ImageWizard

User Manual	File name	Short description	Module or program
		Block creation: <ul style="list-style-type: none"> <li>• converting images</li> <li>• loading images</li> <li>• images settings</li> </ul> Project management	
Block adjustment	<a href="#">solver.pdf</a>	Adjustment of central projection image blocks  Adjustment of scanner blocks	<i>SolverA</i>  <i>SolverS</i>
Aerial triangulation	<a href="#">measurement.pdf</a>	Entering camera data  Performing interior orientation  Input / measurement of GCPs  Performing relative orientation  Import / Export of: <ul style="list-style-type: none"> <li>• triangulation points</li> <li>• elements of exterior orientation</li> </ul>	<i>AT</i>  <i>Camera editor</i>
Vectorization	<a href="#">vectorization.pdf</a>	Vector objects processing	<i>StereoDraw</i>
DTM Generation	<a href="#">DEM.pdf</a>	Preparation of base layers for DTM/DSM creation  Creating DTM/DSM: <ul style="list-style-type: none"> <li>• Calculating 3D-points</li> <li>• Building TIN &amp; textured TIN 3D surface</li> <li>• Building DEM</li> <li>• Building LAS point clouds</li> <li>• Building true ortho</li> <li>• Building smooth contours</li> </ul>	<i>DTM</i>  <i>dDSM</i>
Orthorectification  Orthophotomaps creation	<a href="#">ortho.pdf</a>  <a href="#">geomosaic.pdf</a>	Building orthophoto and accuracy control  Brightness adjustment  Splitting into sheets  Creating marginalia	<i>GeoMosaic</i>

User Manual	File name	Short description	Module or program
Three-dimensional modeling	<a href="#">3d-mod.pdf</a>	3D modeling	<i>3D-Mod</i>
LIDAR Data processing	<a href="#">lidar.pdf</a>	LIDAR data processing	<i>dDSM</i>
Neural processing of LIDAR data	<a href="#">neural.pdf</a>	Neural processing of LIDAR data	<i>Neuro</i>  Available for <i>Astra Linux 1.7</i> and <i>Astra Linux 1.8</i> only
Processing of UAS data	<a href="#">uas.pdf</a>	Processing of UAS data	<i>UAS</i>
General system's parameters	<a href="#">settings.pdf</a>	Configuring system settings	<i>Core</i>
Hotkeys	<a href="#">hotkeys.pdf</a>	Using hotkeys while working in the system	<i>Core</i>
The GeoCalculator program	<a href="#">geocalc.pdf</a>	Coordinates transformation form one coordinate system to another, coordinate systems builder	<i>GeoCalculator</i>
ScanCorrect	<a href="#">sccor.pdf</a>	Compensation of metric errors occurred when scanning graphical data on flatbed polygraphic scanners	<i>ScanCorrect</i>
EGM2008 Geoid installation	<a href="#">install_egm.pdf</a>	Installation of EGM2008 geoid	<i>EGM 2008 distribution</i>