

FEATURE LIST

	Features	Advantages		
INTERFACE	Python 3.8 interface for easy integration	Design your pipelines, scenarios, validations using a simple industry standard scripting language		
	Easy 3rd party integrations	Integrate 3rd party solutions within the processing pipeline		
	Short processing times	Get your SLA under control. Process more and faster in one unit of time		
	Large data sets >10'000 images	Scale up your operations		
OPERATIONS	HW resource management	Control your hardware resources for each major processing step		
	GPU processing	Increase the processing speed by leveraging the power of GPUs		
	Creative custom pipelines (Lego bricks)	Feel free to create any pipeline for any scenario. It's quick and easy.		
INPUTS	Aerial –nadir & oblique– and terrestrial imagery	Process images taken from any aerial, terrestrial, manned, or unmanned platform		
	Aerial and terrestrial images in .jpg format	Use images acquired with variety of cameras - from consumer-grade to highly specialized cameras		
	Large frame images	Process images with resolution >100Mpx		
	Images without IMU	Process image datasets with no IMU		
	Multi-camera support in the same project	Create a project using images from different cameras and process them together		
	RTK + IMU data support	Get faster and more robust calibration when using the Accurate Geolocation Pipeline		
	Ground Control Points (GCPs)	Import GCPs to improve the absolute accuracy of a project		
	Known or custom reference coordinate system	Select EPSG code from known coordinate systems or define your own local system		
	Multiple coordinate system definitions	Use WKT or ESPG Coordinate Reference System formats		
	Processing templates	Choose between preset templates for the best processing options (nadir, oblique) or make custom option modifications. Currently limited to calibration and densification.		
	Rapid quality check	Automatically classify the RGB dense point cloud into four groups: ground road surfaces, his vegetation, buildings and human-made objects		
	Camera self-calibration	Optimize internal camera parameters, such as focal length, principal point of autocollimatio and lens distortions		
	Rolling shutter effect correction	Correct the warp of images taken with rolling shutter cameras (like GoPro, DJI Phantoms, e to maintain accuracy even when flying fast and low		
PROCESSING	Automatic point cloud densification	Produce a dense and detailed 3D point cloud, which can be used as a basis for DSM and 3E mesh		
	Automatic point cloud filtering & smoothing	Use presets for point cloud filtering and smoothing options		
	Automatic brightness and color correction	Compensate automatically for change of brightness, luminosity and color balancing of imag		
	API providing Quality Report information	Assess the quality indicators and build your own reports		
	Project area definition	Draw area polygons to generate results inside/outside specific boundaries		
	Custom number of keypoints	Set the number of keypoints to filter noise or speed up processing		
	Multiprocessor CPU	Increase the processing speed by leveraging the power of CPU cores and threads		
	AutoGCPs	Let engine find and mark your GCPs on images without any human intervention required		
	Sky/water surface detection	Automatically remove sky and/or water (water as beta) segments from images for generatir smooth, noise free point cloud and slpk mesh		
	Moving objects removal	Automatic removal of clutter and moving objects from orthomosaics		
	Custom QA report API	Create your own, customized QA report and assess the accuracy and quality of projects		
	Custom output directories (exports, logs, reports, work/tempo)	Decide where you files will be located		
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OUTPUT RESULTS	2D output results:	Nadir orthomosaics in GeoTIFF output format			
		Orthomosaics from user-defined orthoplane in Ge	oTIFF output	t format	
	2.5D output results:	Nadir DSMs in GeoTIFF format			
		• Full 3D textured mesh in .obj format			
	3D output results:	Tiled Level-of-detail (LoD) mesh in SLPK format			
		• Point cloud in .las, .laz output format			
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HARDWARE	CPU: Quad-core or hexa-core Intel i7/i9/Xeon, AMD	HD: Solid state drive (SSD)		RAM: 32GB RAM (or more)	
		HD: Solid state drive (SSD)	aws	RAM: 32GB RAM (or more) Amazon Web Services:	
HARDWARE SPECS	hexa-core Intel i7/i9/Xeon, AMD				

