Pix4Dmatic 1.7

FEATURE LIST

Features		Advantages
INPUTS		
Aerial images in .jpg .jpeg formats	🖥	Process images taken from aerial manned or unmanned platform, nadir or slightly oblique (required: 0° - 45°; recommended: 10° - 35°)
Multi-camera support in the same project	🖥	Create a project using images from different cameras and process them together
Ground Control Points (GCPs)	🖥	Import and mark ground control points to improve the absolute accuracy of the project
GCPs marks	🖥	Import of GCP marks from Pix4Dmapper into Pix4Dmatic
Known reference coordinate system support	🖥	Select EPSG code from known coordinate systems libraries
Geoid support	🖥	Support of most commonly used geoid models
PROCESSING		
Multiprocessor CPU + GPU support	🖥	Increase the processing speed by leveraging the power of CPU cores and threads, as well as GPUs
Backup mechanism	🖥	An automatic backup mechanism ensures that you do not lose your work when something unexpected stops Pix4Dmatic
Calibration	🖥	Define the Image Scale and Keypoints parameters for the optimization of internal camera parameters (e.g. focal length, principal point of autocollimation and lens distortions) and external camera parameters (position, orientation) during calibration.
Reoptimize	🖥	Reoptimize internal and external camera parameters based on GCPs to improve reconstruction.
Point cloud densification	🖥	Define the point cloud Density and Number of Matches parameters to create a dense point cloud based on the sparse point cloud created during calibration
Digital Surface Model	🖥	Define the Resolution cm/px, enable Surface smoothing with its Median filter radius (px) and enable Interpolation for the digital surface model creation.
Orthomosaic	🖥	Create an orthomosaic based on the digital surface model and the images.
Quality report	🖥	Assess the quality of the reconstruction between processing steps with the Quality Report.
RAYCLOUD		
Project visualization	🖥	Visualy assess the quality of optimized camera positions, automatic tie points, dense point cloud, digital surface model and orthomosaic
GCPs	🖥	Annotate GCPs with the highest accuracy, using both original images and 3D information at the same time
Checkpoints	🖥	Import and mark checkpoints to verify the absolute accuracy of the project
Manual Tie Points (MTPs)	🖥	Create and mark manual tie points to improve the calibration of your project
Undo/Redo your changes	🖥	Undo/Redo the actions and have no fear of losing a step
EXPORT		
Dense point cloud (.las, bpc)	🖥	Export generated dense point clouds in .las or .bpc file format. Pix4D's proprietary .bpc file format is optimized for loading and manipulation of large point clouds.
Digital Surface Model (.tiff)	🖥	Export generated digital surface model in a single .tiff or in tiles. LZW compression available
Orthomosaic (.tiff)	🖥	Export generated orthomosaic in a single .tiff or in tiles. LZW compression available
Quality report	🖥	Export the quality report to assess the accuracy and quality of projects
Direct export to Pix4Dsurvey	🖥	Seamless export of processed Pix4Dmatic projects (.p4m) into Pix4Dsurvey
LANGUAGE		
Language option	🖥	English

HARDWARE SPECS

CPU: Quad-core or hexa-core Intel i5.

GPU: Any NVIDIA GPU that supports OpenGL 4.1 or higher.

Disk Space: 80 GB Free Space (2000-5000 images at 20MP). 160 GB Free Space (5000-10000 images at 20MP).

OS: Windows 10, 64 bit or macOS Catalina.

RAM: 32GB (2000-5000 images at 20MP). 64GB (5000-10000 images at 20MP).