



[Click here](#) for the full technical feature comparison for all PIX4Dmatic plans.

		FEATURES	ADVANTAGES
<b>RELEASE NOTE</b>	<a href="#">Technical release notes</a>		
<b>FEATURES PER LICENSE</b>	<a href="#">Feature per license</a>		Check out the detailed table to see what is included in PIX4Dmatic Analyst and PIX4Dmatic Standard
	<a href="#">Aerial and terrestrial images (JPG, JPEG, TIF, and TIFF)</a>		Process RGB images in the aerial and terrestrial images JPG, JPEG, TIF, and TIFF that support standard EXIF/XMP tags.
	<a href="#">PIX4Dmapper and PIX4Dsurvey projects</a>		Import PIX4Dmapper and legacy PIX4Dsurvey projects to continue working in PIX4Dmatic.
	<a href="#">Open Photogrammetry Format (OPF)</a>		Import and export a project in the Open Photogrammetry Format (OPF).
	<a href="#">LiDAR and RGB images from PIX4Dcatch</a>		Import and process PIX4Dcatch data, depth maps (LiDAR) and RGB images, for a full terrestrial workflow.
	<a href="#">Point clouds (LiDAR)</a>		Import external LiDAR point clouds (LAS/LAZ) to generate high-quality meshes, DSMs, and orthomosaics.
	<a href="#">Multi-camera support in the same project</a>		Import and process images captured by different cameras simultaneously within the same project.
	<a href="#">Image geolocation and orientation (CSV and TXT)</a>		Import image geolocation and orientation information in CSV or TXT.
	<a href="#">Ground control points (GCPs) (CSV and TXT)</a>		Import ground control points and checkpoints to accurately georeference your project.
	<a href="#">GCPs marks</a>		Import tie point (GCPs, MTPs, etc.) image marks from a PIX4Dmapper or another PIX4Dmatic project
<b>INPUTS</b>	<a href="#">Known coordinate reference system (CRS)</a>		Select a default coordinate reference system for easy setup, with EPSG or ESRI codes from known coordinate systems libraries.
	<a href="#">Geoids support</a>		Select a geoid from a list of the most commonly-used geoid models or select a geoid height.
	<a href="#">Arbitrary coordinate reference system (CRS)</a>		Georeference projects using local or site-specific coordinate systems defined by GCPs.
	<a href="#">Site localization (WKT and PRJ)</a>		Import a site localization file to use a customer coordinate reference system in PRJ or in WKT generated with PIX4Dcatch.
	<a href="#">Region of interest (ROI) (KML)</a>		Import or draw an ROI (KML) to delimit the processing area, speeding up processing and creating sharper outputs.
	<a href="#">Volume base surface (TIN)</a>		Import a LandXML TIN file as base surface for volume computation.
	<a href="#">Edit camera internals and externals parameters</a>		Fine-tune internal and external camera parameters for enhanced control over calibration and project accuracy.
	<a href="#">Vector files (DXF, SHP, ZIP, SHZ, GeoJSON, JSON)</a>		Import vector files in DXF, SHP, zipped SHP or GeoJSON to view in your project.
	<a href="#">Animation trajectory</a>		Import and export a video trajectory as a JSON file to create fly-through videos.
	<a href="#">Processing templates</a>		Select the Nadir, Oblique, PIX4Dcatch or Custom processing template.
	<a href="#">Calibration</a>		Define the Template, Pipeline, Image Scale, Keypoints and Internals confidence 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.
	<a href="#">Reoptimization</a>		Reoptimize internal and external camera parameters based on GCPs, MTPs, VTPs, or mITPs to improve the reconstruction.
	<a href="#">Dense point cloud</a>		Create a high-quality dense point cloud using user-defined scale, density, noise filtering, and mask-aware parameters.
	<a href="#">Readjustment</a>		Quickly adjust the point cloud after reoptimization without the need to re-densify the entire project.
	<a href="#">Depth point cloud</a>		Create a depth point cloud based on LiDAR inputs from PIX4Dcatch.
	<a href="#">Depth &amp; dense fusion</a>		Create a single point cloud based on the depth point cloud and the dense point cloud.
	<a href="#">Outlier removal</a>		Automatically detect and remove noise from imported or generated point clouds for cleaner outputs.
	<a href="#">Mesh</a>		Generate a detailed 3D mesh using customizable parameters for texture size, deghosting, and smoothing.
<b>PROCESSING</b>	<a href="#">Digital surface model (DSM)</a>		Define the Input, Resolution, Surface smoothing, Interpolation, and Mask-aware parameters to create a digital surface model with the point cloud.
	<a href="#">Orthomosaic</a>		Define the Deghosting, Oblique, and Mask-aware parameters to create an orthomosaic with the digital surface model and the images.
	<a href="#">AI tools</a>		Compute the data required for the object selection and image mask tools.
	<a href="#">Quality report</a>		Assess the calibration and other processing step results with the detailed quality report.
	<a href="#">Terrain classification</a>		A set of tools to identify terrain and non-terrain point cloud points, and display the result.
	<a href="#">Grid of points</a>		Automatically create spot elevations and simplify the point cloud, generating a significantly lighter dataset.
	<a href="#">TIN</a>		TIN (Triangular Irregular Network) is a seamless set of triangles representing a surface.
	<a href="#">Digital terrain model (DTM)</a>		Calculate the DTM based exclusively on the height of the classified terrain points.
	<a href="#">Contour lines</a>		Contour lines are lines on a map that connect points of equal elevation, used to represent a three-dimensional landscape on a two-dimensional surface.
	<a href="#">Road object detection</a>		Road objects detection automatically detects manholes, drains, and poles by using the images.
	<a href="#">Multicore CPU + GPU support</a>		Increase the processing speed by leveraging the power of CPU cores and threads, as well as GPUs.
	<a href="#">Backup mechanism</a>		An automatic backup mechanism ensures your work is protected against unexpected software interruptions.
	<a href="#">History</a>		Access a complete history panel to view all session actions and revert the project to any previous state.
	<a href="#">Selection tools</a>		Select entities on the project using a rectangle, a polygon, or on their color.
	<a href="#">Vectorization tools</a>		Create a geometry using different vectorization tools: marker, circle, arc, polyline, polygon, assisted road marking, roof detection and wall detection.
	<a href="#">Measurement tools</a>		Measure in 2D or 3D using different tools: distance and volume.
	<a href="#">Select only</a>		Select only the desired entity: layers, grid of points, point clouds, cameras, tie points, views.
	<a href="#">Invert selection</a>		Invert the point cloud selection.
	<a href="#">Focus on selection</a>		Quickly navigate to selected point clouds, geometries, or sections in complex scenes.
	<a href="#">Split, join, and continue polylines</a>		Easily vectorize with the features to split, join, and continue polylines.
	<a href="#">Drape polyline</a>		Drape polylines onto the point cloud and adjust complexity for accurate representation.
	<a href="#">Vector layers and layers templates</a>		Enhance workflows with customizable vector layers and layer templates for efficient data management.
	<a href="#">Lock layers</a>		Prevent accidental modifications by locking layers during visualization or processing steps.
	<a href="#">Scale constraint</a>		Improve project scaling accuracy by adding known distances and specifying their precision.
	<a href="#">Orientation constraint</a>		Use known axis direction to accurately orient your project globally.
	<a href="#">Stockpile detection</a>		Automatically detect stockpiles and generate volume polygons for quick and accurate volume calculation.
	<a href="#">Orthomosaic editor</a>		Refine the final orthomosaic using content from the original captured images for enhanced results.
	<a href="#">Section view</a>		Create vertical or horizontal sections, or along a polyline, to vectorize a profile or verify the quality of the results.
	<a href="#">Orthoplane</a>		Create an orthoplane from a section view.
	<a href="#">Convert geometries</a>		Convert geometries in a different type of geometry, i.e. polyline in polygon.
	<a href="#">Object selection tool</a>		A smart object select tool which automatically selects a group of points identified as belonging to the same object in one click for point cloud classification.
	<a href="#">Share to PIX4Dcloud</a>		Share a project to PIX4Dcloud.
	<a href="#">Process in PIX4Dcloud</a>		Process a project from PIX4Dmatic to PIX4Dcloud.
	<a href="#">Merge projects</a>		Merge multiple PIX4Dmatic projects.
	<a href="#">Custom report</a>		Create a custom report tailored to different needs.
<b>TOOLS</b>	<a href="#">Masks</a>		Enable AI-assisted masking by simply placing prompts on images to exclude unwanted objects from the different outputs (e.g. point cloud, mesh, orthomosaic).
	<a href="#">Point cloud registration</a>		Align two or more point clouds to create a unified point cloud.
	<a href="#">Terrain class</a>		Identify, edit, export, delete, and show/hide terrain and non-terrain point cloud points.
	<a href="#">ASPRS class</a>		Import or classify point clouds using ASPRS standard, and edit, export, delete or show/hide each class.
	<a href="#">Disable point cloud points</a>		Disable points in your point clouds for higher-quality meshes, DSMs, and orthomosaics.
	<a href="#">Restore disabled point cloud points</a>		After disabling point cloud point, restore them to the project to correct mistakes.
	<a href="#">Clipping box</a>		Isolate a specific area of the point cloud using a clipping box for focused editing and visualization.
	<a href="#">Status center</a>		Monitor tracking notifications and detailed progress reports for all processing steps.
	<a href="#">Ground control points (GCPs)</a>		Annotate GCPs with the highest accuracy, using both original images and 3D information at the same time.
	<a href="#">Checkpoints</a>		Annotate checkpoints with the highest accuracy, using both original images and 3D information at the same time to verify the absolute accuracy of the project.
	<a href="#">Manual tie points (MTPs)</a>		Create and mark MTPs to manually improve the calibration of your project.
	<a href="#">Vertex tie points (VTPs)</a>		A geometry vertex can be converted to a vertex tie point (VTP), so that image marks of geometries are taken into account during calibration or reoptimization.
	<a href="#">Auto-mark</a>		Auto-mark will automatically find more marks in images for tie points or geometry vertices, as long as you marked at least 2 images.
	<a href="#">AutoGCP</a>		Automatic detection of targets with known shape and texture without manual intervention.
	<a href="#">Intersection tie points (ITPs)</a>		Improve calibration, especially in complex scenes, by automatically generating tie points calculated from scene geometries.
	<a href="#">Videos &amp; Views</a>		Create professional video animations using your saved project views.
	<a href="#">Views</a>		Create and save specific views of your project to easily return to the same viewpoint for documentation and reporting.
	<a href="#">Save copy</a>		Create a copy of your project at any point to safeguard a previous state while continuing work.
	<a href="#">2D and 3D views (rayCloud)</a>		Visually assess the accuracy of the initial and optimized image and tie point (GCPs, MTPs, etc.) positions, and visualize the automatic tie points, dense point cloud, mesh, digital surface model, and orthomosaic. In the 2D or 3D, and perspective or orthographic views.
	<a href="#">Undo/Redo</a>		Undo/Redo your changes.
	<a href="#">Snapping window</a>		Facilitates the picking of points when creating a geometry in the 3D view by giving a sense of depth.
	<a href="#">Base maps</a>		Add context to your scene by displaying map or satellite data in the background of the 2D viewer.
	<a href="#">Automatic defaults for missing camera parameters</a>		Obtain default values when internal camera parameters are missing.
	<a href="#">Gaussian splatting</a>		Upload PIX4Dcatch projects to PIX4Dcloud from PIX4Dmatic to generate Gaussian splats.
	<a href="#">Sizes</a>		Customize the display size of project elements like cameras, tie points, markers, and masks.
	<a href="#">Labels</a>		Enable or disables the label of the markers, mask, and contour lines height label.
<b>SETTINGS</b>	<a href="#">Point clouds</a>		Establish the minimum number of matches, and select the colorization based on a parameter: elevation, normals, and GPS time.
	<a href="#">Viewing options</a>		Customize the visual display parameters to optimize your workspace layout and viewing experience for different tasks.
	<a href="#">Background</a>		Personalize the color of the project background.
	<a href="#">Project as OPF</a>		Export your entire project using the Open Photogrammetry Format (OPF) 1.0 specifications.
	<a href="#">Quality report</a>		Export the quality report to assess the accuracy and quality of projects.
	<a href="#">Custom report</a>		Export custom reports with your logo containing an Overview plan, Views, and an Inventory describing your project.
	<a href="#">Image geolocation and orientations</a>		Export image geolocation and orientation data.
	<a href="#">Undistorted images</a>		Export the images with geometric lens distortions removed.
	<a href="#">Export GCPs</a>		Export GCPs for enhanced workflow flexibility.
	<a href="#">Export marks</a>		Export marks of tie points.
	<a href="#">Export MTPs and mITPs</a>		Export tie point marks (MTPs, mITPs) in .TXT or .CSV file formats.
	<a href="#">Region of interest (ROI) (KML)</a>		Export the defined region of interest (KML) used within the project.
	<a href="#">Depth point cloud</a>		Export generated point clouds in LAS, LAS (1.2 and 1.4) and XYZ file formats.
	<a href="#">Dense point cloud</a>		Export generated point clouds in LAS, LAS (1.2 and 1.4) and XYZ file formats.
	<a href="#">Depth &amp; dense fusion</a>		Export generated point clouds in LAS, LAS (1.2 and 1.4) and XYZ file formats.
	<a href="#">Point cloud from mesh</a>		Export a point cloud derived directly from the generated mesh in .LAZ format.
	<a href="#">Mesh</a>		Export a 3D textured mesh in OBJ, PLY, Cesium 3D tiles (B3DM, JSON), SLPK, and FBX file format.
	<a href="#">Digital surface model (DSM)</a>		Export a generated digital surface model in a single cloud optimized GEOTIFF or in tiles. Optionally with TFW and PRJ files. Select the compression rate of the file. LZW compression available.
	<a href="#">Orthomosaic</a>		Export a generated orthomosaic in a single or tiled cloud optimized .geotiff with optional TFW and PRJ files, as JPEG with a JGW file for geolocation, or as KML. Select the compression rate of the file. LZW or JPEG compression available.
	<a href="#">Sections</a>		Export the geometries created from section views.
	<a href="#">Geometries</a>		Export created geometries (Markers, Polylines, Polygons) and layers to DXF, zipped SHP, SHP, CSV, and LandXML.
	<a href="#">Grids</a>		Export generated grids to DXF, SHP, GeoJSON, CSV, LAZ, LAS (1.2 and 1.4).
	<a href="#">TIN</a>		Export generated TIN in LandXML and GeoTIFF.
	<a href="#">DTM</a>		Export a generated Digital Model Terrain (DTM) in TIFF with optional TFW and PRJ files. Select the compression rate and export using the project CRS or Web Mercator.
	<a href="#">Contour lines</a>		Export generated contour lines in DXF, SHP or GeoJSON.
	<a href="#">Video</a>		Export a video of your project to share on social media or with stakeholders in WEBM format.
<b>LANGUAGES</b>	<a href="#">Language options</a>		Access the software in 12 languages: English, French, German, Japanese, Korean, Portuguese, Simplified Chinese, Spanish, Traditional Chinese, Turkish, Czech, and Ukrainian.
<b>MIN HARDWARE SPECS</b>	<b>CPU:</b> Quad-core or hexa-core Intel i5 <b>GPU:</b> Any NVIDIA GPU that supports OpenGL 4.1 or higher <b>Disk space:</b> SSD, 150 GB - 300 GB Free space (2,000-5,000 images at 20 MP), SSD, 300 GB - 450 GB Free space (5,000-10,000 images at 20 MP) <b>OS:</b> Windows 11 (64 bit) or macOS Sequoia (15.x) + Sonoma (14.x) <b>RAM:</b> 32 GB (2,000-5,000 images at 20 MP), 64 GB (5,000-10,000 images at 20 MP).		
<b>LICENSING OPTIONS</b>	<a href="#">Organizational license support</a> <a href="#">SSO support</a> <a href="#">Offline license</a> <a href="#">Proxy configuration</a>		If you are in a Pix4D organization, you can access those organizational licenses and see how many are available. SSO-enrolled companies can use their defined SSO provider to log in. Fully offline licensing available. The usage of proxies is supported for system or manual proxy configurations.