Pix4Dinspect

FEATURE LIST

	Features		Advantages
INPUTS	Aerial (nadir and oblique)	☁	Process images taken from any angle with a DJI or Parrot drone.
PHOTOGRAMMETRIC DATA PROCESSING	Asset-specific processing optimization	☁	Obtain the best quality output for a class of asset (for example, cell phone tower)
	Camera self-calibration	☁	Optimize internal camera parameters, such as focal length, principle point of autocollimation and lens distortions
	Automatic Aerial Triangulation (AAT) and Bundle Block Adjustment (BBA)	☁	Process automatically with or without known camera exterior orientations (x, y, z, w, f, k)
	Automatic point cloud densification	☁	Produce a dense and detailed 3D point cloud, which can be used as a basis for DSM and 3D mesh
	Automatic point cloud filtering and 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 images
PHOTOGRAMMETRIC OUTPUT FILES	2D outputs	☁	Orthomosaic
		☁	DSM
	3D outputs	☁	Point cloud
		☁	3D mesh
ASSET MANAGEMENT	Geolocation of assets in a map dashboard	☁	Intuitive file organization for smoother workflows
	Unlimited asset creation	☁	Create as many assets as needed
	Share assets with collaborators	☁	Align stakeholders with secure information sharing
	Map filtering	☁	Filter assets by zooming in or out of the map
	Cloud data storage	☁	Store information securely and access from anywhere in the world
	Selectable data processing and storage location	☁	Select data processing and storage location Use secure servers located in the US, Germany, Japan or Korea
INSPECTION TOOLS	2D and 3D data visualization	☁	Visualize 2D maps and 3D models using any web browser Mesh and point cloud visualization options Real-time shading for digital surface model (DSM) visualization
	Distance measurements map/3D	☁	Measure distances using either the map or 3D view
	Area measurements map/3D	☁	Measure areas using either the map or 3D view
	Marker annotation map/3D	☁	Add and edit annotations on either the map or 3D view
	Geolocalized image position representation	☁	Location and camera orientation information is linked to each image to give additional context when navigating the asset
	Support for non-drone images	☁	Include images taken with a cellphone, tablet or other camera as well as those taken by drone
	Image navigation capabilities	☁	Select an image from either the 2D or 3D view, the carousel or image list. Toggle between images in the same order in which they were taken for easier inspection
	Camera navigation in sync between 2D and 3D	☁	Navigate seamlessly between the 2D and 3D views
	3D screenshot	☁	Take screenshots in the 3D view
	Image annotation by severity level	☁	Rank images in order of severity. Images can be annotated as soon as they are uploaded, without waiting for photogrammetric processing to complete
	Image reviewed mark	☁	Mark images as reviewed to give an overview of the asset
	Export inspection report in JSON	☁	Share automatically-generated reports containing essential information
	Georeferenced map/3D annotations export	☁	Georeferenced annotations in .csv, GEOjson, and .shp format"
	Elevation profiles	☁	Automatically calculate the elevation of a section of your project
	Units	☁	Metric and Imperial

ADVANCED ANALYTICS (TELECOM)	Automatic detection of panel antenna pose	☁	Automatically calculate azimuth, downtilt, plumb and height from ground and dimensions
	Panel antenna inventory	☁	Including antenna properties and key pictures
	3D visualization of identified panel antenna	☁	View the asset in 3D
	Point cloud clipping	☁	Trim the point cloud to include only the most essential data
	On-demand custom algorithm development and integration	☁	Contact us to discuss developing or integrating custom algorithms to meet your specific needs
MULTILINGUAL	Language options	☁	English, Japanese and Spanish