PIX4Dinspect

FEATURE LIST

	Features		Advantages
INPUTS	Aerial images (nadir and oblique) and terrestrial imagery	☁	Geolocated JPEG images from the most popular drone manufacturers' cameras providing the recommended XMP tags (position and orientation)
	Video (Parrot Anafi only)	☁	Automatically extracts still frames from videos (.mp4) to create a project
DATA PROCESSING	Automatic asset processing optimization	☁	Obtain the best output quality for any type of asset (eg. cell tower)
OUTPUTS	2D outputs	☁	Image map
		☁	Elevation profile
		☁	High-resolution images
	3D outputs	☁	3D model
		☁	Textured 3D model
ARTIFICIAL INTELLIGENCE BY DEFAULT	3D/2D Inspector	☁	Click on any location on the 3D model or the Image map and get the most representative image containing the selected point so that you don't search the image yourself and save time
	Rust detection (Beta)	☁	Automatically detect rust on any type of surface
	Rooftop segmentation (Beta)	☁	Automatically detect, measure and annotate rooftop faces and obstacles
	Point cloud clipping	☁	Trim the point cloud to include only the most essential data
	Master cameras	☁	Reduce the number of images to inspect by displaying the minimum amount necessary to fully cover the digital twin
	On-demand custom algorithm development and integration	☁	Contact us to discuss developing or integrating custom algorithms to meet your specific needs
ARTIFICIAL INTELLIGENCE - TELECOM	Automatic detection of panel and microwave antenna poses	☁	Automatically calculate azimuth, downtilt, plumb and height from ground and dimensions
	Panel antenna inventory	☁	Including antenna properties and key pictures
	Microwave antenna inventory	☁	Including antenna properties and key pictures
	Ancillary boxes inventory	☁	Including properties and key pictures
	3D visualization of identified panel and microwave antennas	☁	View the asset in 3D
INSPECTION TOOLS	2D and 3D data visualization	☁	Visualize Image maps and 3D models using any web browser
	Distance, area and volume measurements	☁	Measure distance, area or volume on the Image map or the 3D model
	Geolocalized image position representation	☁	Camera icon representing the location and camera orientation of each image is shown on the 3D view to give additional context when navigating the asset
	Image reviewed mark	☁	Mark images as reviewed to give an overview of the asset
	Automated report generation	☁	Export a report in .JSON and .PDFcontaining all the annotations, antennas, measurements, descriptions, and object screenshots. The report is automatically generated in the same language as the project. Option to add a custom logo
	Image annotation	☁	**3D projection of the image annotation** - the center of the annotated box is projected on the 3D model by giving you a marker of the exact location of the inspected area
		☁	**Image annotation box:** represents the area impacted by the created annotation
		☁	**Type:** select a pre-defined annotation or create a new annotation type to better catalogue your annotations
		☁	**Severity level:** rank your severity level from 1 to 5 to highlight the importance of the image annotation
		☁	**Decription:** fill in additional information
		☁	**External link:** link any relevant information or resource to the image annotation
	Select tool	☁	Display overlapping items in the selected location and choose the item of interest
TELECOM TOOLS	Plan future antenna installations	☁	Automatically visualize new inventory items, such as antennas, on your digital twin to plan future installations

PIX4D

Get in touch:
pix4d.com/inspect

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
	Selectable data processing and storage location	☁	Select data processing and storage location Use secure servers located in the US, Germany, Japan, Canada or Korea
MULTI-LINGUAL	**Language options**	☁	English, German, Japanese, French, Italian, Spanish and Portuguese (Brazil)
PIX4DINSPECT API	**PIX4Dinspect Connect**	☁	Connect your application to PIX4Dinspect. Upload images, create projects, trigger processing directly from your application, and visualize the projects within the PIX4Dinspect UI
	Annotation management	☁	Use your expertise in detecting failures and combine it with PIX4Dinspect to create powerful inspections, e.g find defects in images and know exactly where it is located on the 3D
	Input/Output/Reports download	☁	Ability to download the different inputs and outputs, as well as generate and download reports
	Custom software integrations with 3rd party apps	☁	Contact us to discuss how PIX4Dinspect outputs can be automatically pushed in your 3rd party software

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