PIX4Dfields 2.9

FEATURE LIST

	FEATURES	ADVANTAGES
Inputs	Multispectral images	Import nadir images from multispectral sensors in TIFF or JPEG format
	RGB images	Import nadir images from standard RGB sensors in JPEG format
	Pre-processed maps	Import orthomosaics or vegetation index maps already processed in other Pix4D products (import as geoTIFF)
	Field boundaries	Import field boundaries (single or multipolygon) to focus analysis on an area of interest (import as GeoJSON, KML or Shapefile). Includes support for sub-boundaries and obstacles within a field.
	Geotagged images	Import GPS tagged images as geolocated annotations directly on a layer (import as JPEG or TIFF)
	Annotations	Import annotations (point, multipoint, line, polygon) directly on a layer (import as GeoJSON, KML or Shapefile)
	Satellite data import	Enhance your mapping experience with Sentinel-2 satellite data for your fields
Tools and Functions	Easy to use interface	An easy to use and intuitive interface developed for agriculture users
	Lightweight and robust	Lightweight to work on a mid-range computer in the field without requiring an internet connection or the cloud for processing
	Dashboard project organization	Organize your projects (Farm, Client, Organization), and include key crop information
	Batch Export & Import	Export and import multiple projects at once.
	Accurate Processing	“Accurate processing” mode for high resolution digital surface models (DSM), improved geolocation and datasets with strong elevation changes
	Fast processing	Generate high-resolution 2D maps from aerial images in minutes, offline and locally processed
	GPU enhanced fast processing	Improve processing speeds significantly when suitable GPU is available compared to standard CPU
	Rig relative calibration	Optional recalculation of the rig relatives to improve band alignment for supported multispectral cameras
	Radiometric correction	Generate orthomosaics / indices that can be compared in different weather conditions when using multispectral imagery
	Field boundary editor	Create or import a field boundary to trim layers to a specific area of interest
	Index generator	Automatically generate predefined indices e.g. LCI, NDRE, NDVI, TGI, VARI
	Index calculator	Create custom indices by inputting an index formula which can be saved and reused
	Zonation tool	Create editable zonation maps with 1 to 7 zones from your crop health data for scouting and site-specific farming
	Targeted Operations / Prescription Maps	Create highly customizable variable rate and spot spraying prescription maps for spray drones, tractors, and field sprayers.
	Comparison tool	Compare different maps side-by-side using split or double screen
	Annotations tool	Annotate areas of interest with a title, description and option to attach images including geolocated images
	Counting tool	Quick manual point-based counting of objects with different classes, total count numbers, and PDF report
	Measurement tool	Measurement tools to quickly measure distances and areas for analysis in the field
	Statistics	Layer and annotation statistics including area size, mean height or index value and standard deviation
	Advanced layer visualization	Adjustable histogram value ranges including equalization to provide control over data values of interest
	PDF report generator	Share your maps with all project stakeholders for seamless collaboration using the PDF report export tool
	Field Insights	AI driven crop growth status report incorporating weather, soil and crop information
	Export tool	Export layers, annotations, and prescription maps (ISOXML, Shapefile, GeoTIFF) with full control over size and format
	Share to PIX4Dcloud	Upload PIX4Dfields outputs (orthomosaic, surface model, index layers, annotations) directly to PIX4Dcloud for sharing
	Pan-sharpening	Use the Pan-sharpening function for higher resolution images
	Magic tool	AI-assisted selection tool to quickly detect and select weed nests, damage, and other anomalies in orthomosaic and index layers (exportable as Shapefile, GeoJSON, KML, ISOXML and PDF report)
Outputs	Orthomosaic	A visual map of the field for crop scouting and assessment with options to set map resolution and quality (export as geoTIFF)
	Digital surface model	See elevation data to help with irrigation, drainage and erosion management (export as geoTIFF, XYT, MultiPlane)
	Vegetation index maps	A map which helps indicate plant stress areas and can assist with crop protection and crop production workflows (export as geoTIFF)
	Zonation maps	A zoned map based on information from vegetation index maps for agricultural operations (export as GeoJSON, KML or Shapefile)
	Prescription maps	Export highly customizable variable rate and spot spraying prescription maps for spray drones, tractors, and field sprayers (ISOXML, Shapefile, GeoTIFF, KML)
	Field boundaries	Create precise field boundaries with RTK support for your agricultural operations. Field boundaries help focus analysis to only your areas of interest (export as GeoJSON, KML, Shapefile and to MyJohnDeere)
	Annotations	Adding annotations to areas of interest helps convey more valuable and actionable information (export as GeoJSON, KML, Shapefile or PDF)
	PDF report	A shareable project report that can be customized with a logo and contact details. It includes a table of contents with all exported layers, a summary page for annotations, field insights, and can be exported as a PDF
	Statistics	Layer and annotation statistics can be exported as a standalone file (export as a CSV)
	Snapshot	A quick snapshot of the current map view which can include annotations (export as JPEG or PNG)
	John Deere Operations Center	John Deere Operations Center: upload aerial maps, crop health maps, field boundaries, and prescription maps directly from PIX4Dfields to your operations center
Language	Language options	English, Chinese, French, German, Italian, Japanese, Korean, Spanish, Portuguese, Russian, Ukrainian, Polish, Czech, Hungarian, Romanian
Hardware Specs	CPU	Quad-core or hexa-core Intel / AMD (or faster), Apple M1 (or faster)
	HDD	SSD recommended
	RAM	8 GB RAM (16 or more recommended)
	GPU	Integrated or dedicated GPU 2 GB RAM (GeForce GTX GPU 6GB RAM recommended)
	OS	Windows 11 / macOS Sonoma (14) or above