PIX4D**fields** 1.10

FEATURE LIST

Features		Advantages
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)
Geotagged images	🖥	Import GPS tagged images as geolocated annotations directly on a layer (import as JPEG or TIFF)
Annotations	🖥	Import annotations (point, line, polygon) directly on a layer (import as GeoJSON, KML or Shapefile)

INPUTS (row group label)

Features		Advantages
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
Fast mapping	🖥	Generate high-resolution 2D maps from aerial images in minutes, offline and locally processed
GPU enhanced fast mapping	🖥	Improve processing speeds significantly when suitable GPU is available compared to standard CPU (currently only for RGB datasets)
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 custom zones based on information from vegetation index maps with between 2 and 7 classes
Prescription tool	🖥	Create application rate maps for targeted precision agriculture applications
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
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
Export tool	🖥	Export projects or individual layers with adjustable control for image size and format to your computer for further use
Share to PIX4Dcloud	🖥	Upload PIX4Dfields outputs (orthomosaic, surface model, index layers) directly to PIX4Dcloud for sharing

TOOLS AND FUNCTIONS (row group label)

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)
	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	🖥	A zonation map where each of the zones has a value for variable rate application (export as GeoJSON, KML or Shapefile)
	Field boundaries	🖥	Field boundaries help focus analysis to only your areas of interest (export as GeoJSON, KML or Shapefile)
	Annotations	🖥	Adding annotations to areas of interest helps convey more valuable and actionable information (export as GeoJSON, KML or Shapefile)
	PDF report	🖥	An easy to share aggregated project report which can be customized with a logo and contact details (export as 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)

LANGUAGE			
	Language options	🖥	English, Chinese, French, German, Italian, Japanese, Korean, Spanish, Portuguese, Russian, Ukrainian

HARDWARE SPECS

CPU: Quad-core or hexa-core Intel i5 (or faster)

GPU: Integrated or dedicated GPU 2 GB RAM (GeForce GTX GPU 6GB RAM recommended)

HD: SSD recommended

OS: Windows 10 / macOS Catalina (10.15) or above

RAM: 8 GB RAM (or more)

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