



Pix4Dmatic

PIX4Dmatic's main inputs are images and text files with ground control points coordinates.

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Images

PIX4Dmatic is based on image processing and is optimized for large scale, corridor and terrestrial projects.

For more information about the supported cameras see: [Which cameras are supported in PIX4Dmatic.](#)

| Extension | Description |
|-------------|----------------------------|
| .jpg, .jpeg | JPEG images |
| .tiff | TIFF images and depth maps |

Image geolocation and orientation

The import of image geolocation and orientation is useful when the values are not available in the EXIF/Xmp tags or when using PPK workflows.

Extension Description

| | |
|------------|--|
| .csv, .txt | <p>A text file containing seven or nine columns per line and a comma (,) to separate the values</p> <ul style="list-style-type: none">• Seven columns: ID, coordinates, Yaw, Pitch, Roll• Nine columns: ID, coordinates, Yaw, Pitch, Roll, Accuracy Horz, Accuracy Vert |
|------------|--|

For more information and all formats see [Image geolocation and orientation import format](#) articles.

Example: Image geolocation in geographic coordinates, Yaw, Pitch, Roll:

imagenam, coordinate1 [decimal degrees], coordinate2 [decimal degrees], z [meter], yaw [decimal degrees], pitch [decimal degrees], roll [decimal degrees]

```
IMG_3165.JPG,46.2345612,6.5611445,539.931,38.6,3.5,8.3
IMG_3166.JPG,46.2323423,6.5623423,529.823,44.1,3.4,5.4
```

Ground Control Points (GCPs) file

Ground Control Points (GCPs) are used for precisely georeferencing the project.

Extension Description

| | |
|------------|--|
| .csv, .txt | <p>A text file containing four or six columns per line and a comma (,) to separate the values.</p> <ul style="list-style-type: none">• Four columns: ID and coordinates• Six columns: ID, coordinates, Accuracy Horz, and Accuracy Vert |
|------------|--|

For more information and all formats please see the [GCPs import format](#) article.

Example: GCPs in projected coordinates with accuracy values:

label,X [units],Y [units],z [units],Accuracy Horz [units],Accuracy Vert [units]

```
GCP0,2532795.105,1152094.639,395.883,0.02,0.02
GCP1,2532728.805,1152079.825,396.619,0.02,0.02
```

GCPs marks file

GCPs marks can be imported if they were previously marked and exported in a PIX4Dmapper or PIX4Dmatic project.

| Extension | Description |
|------------|---|
| .csv, .txt | A text file containing positions of marks on individual images. |

For more information, please see the [How to import GCP marks from PIX4Dmapper into PIX4Dmatic](#) article.



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