

## Introduction

This document describes the format of:

1. POSIPIX File names
2. POSIPIX EXIF GPS Fields (if populated)
3. POSIPIX Geo-referencing metadata

### 1. POSIPIX Image File Naming Convention

All images have a consistent file naming convention as follows:

YYYYMMDD\_RRR\_SSEQ.jpg

Field	Name	Description
X	Orientation	Either F (Front) or B (Back)
YYYY	Year	Year image was taken
MM	Month	Month image was taken
DD	Day	Day image was taken
RRR	Location key	The route or area where the image was taken (001 to 999)
SSEQ	Sequence	Sequence number of the image (0001 to 9999)

Example:

F20051005\_035\_0120.jpg

Is a front facing image taken on 5<sup>th</sup> October 2005 in area 35 with a sequence number of 120.

**Note that for every front image there is always a corresponding back image.**

### 2. EXIF GPS fields when populated in a POSIPIX Image

Tag Name	Sample Value	Comments
GPSLatitudeRef	'N' or 'S'	Indicates whether the latitude is North or South. The ASCII value 'N' indicates north latitude, and 'S' is south latitude.
GPSLatitude	51 31 05	The latitude is expressed as three RATIONAL values giving the degrees, minutes, and seconds, respectively
GPSLongitudeRef	'E' or 'W'	Indicates whether the longitude is East or West. The ASCII value 'E' indicates east longitude, and 'W' is west longitude.
GPSLongitude	0 0' 32	The longitude is expressed as three RATIONAL values giving the degrees, minutes, and seconds, respectively

The following fields may optionally be populated:

Tag Name	Sample Value	Comments
GPSImgDirectionRef	'T' or 'M'	Indicates the reference for giving the direction of the image when it is captured. 'T' = True direction, 'M' = Magnetic direction
GPSImgDirection	185	Indicates the direction of the image within the range 0 to 359

3. Format of Standard POSIPIX geo-referencing metadata (CSV format)

Name	Example	Notes
Ref	20050703_030_0123	Uniquely identifies a location and time where a pair (front and back) of images were taken and follows the POSIPIX naming convention
Latitude	51.51527	Latitude in WGS84 decimal degrees format
Longitude	-0.15521	Longitude in WGS84 decimal degrees format
Front Bearing	100	The direction (as a heading in degrees) of the front image i.e. 90 = East, 270 = West
Back Bearing	280	The direction (as a heading in degrees) of the rear image. Always 180 degrees different to the front image
Front Filename	F20050703_030_0123.jpg	The name of the front image file following the POSIPIX naming convention
Back Filename	B20050703_030_0123.jpg	The name of the rear image file following the POSIPIX naming convention
Streetname	Bryanston Mews	The street at the point where the picture was taken.
Borough	Westminster	The Borough at the point where the picture was taken.
Postcode	W1	Post code (outcode) at the point where the picture was taken.
City	London	The City the picture is in.

**Important Notice**

**This information is subject to change and should be used as a guide only. The actual format of POSIPIX geo-referencing data will depend on the application and will be confirmed by Trek Wireless as part of order acceptance.**

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