

# Ubipix



## User Guide V1.3

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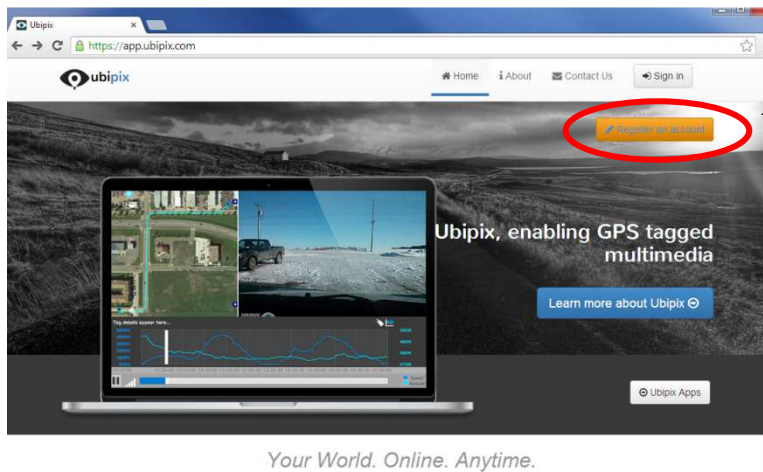
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## 1 Introduction

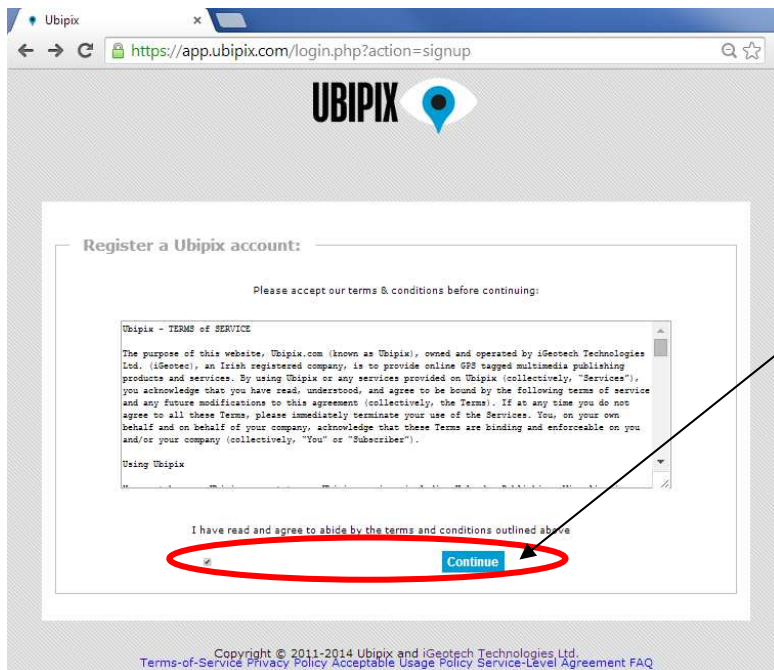
This document details the basic steps to capturing, uploading, publishing, sharing & managing GPS tagged multimedia content using the Ubipix platform. You can register an account, download the free Ubipix SmartPhone App, capture, upload, publish & share GPS tagged multimedia online in minutes.

Please contact Support ([support@ubipix.com](mailto:support@ubipix.com)) for any additional help or queries

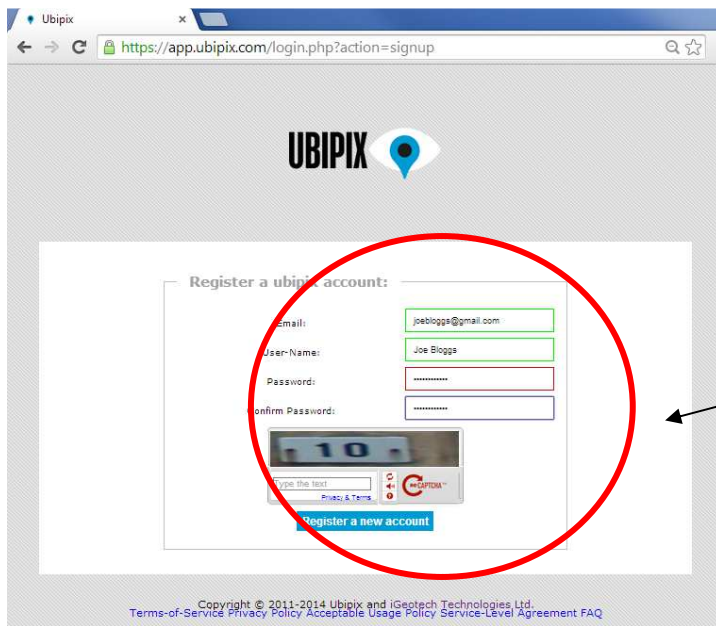
## 2 Getting Started: Register an Account



Click  
"Register an  
account"



Read T&C, tick the box  
and click "Continue"



Enter the following information

- email address
- user-name
- password (re-confirm this)

Type the Captcha and then click "Register a new account"

An email will be sent to the email address provided with simple instructions to complete Account Registration.

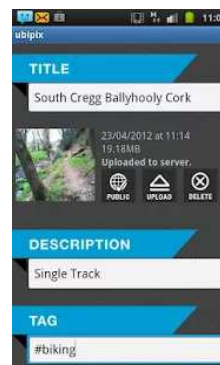
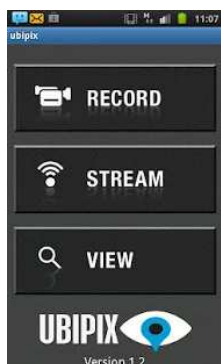
**Note :** You can also register a new account using the SmartPhone Ubipix App

## 3 Data capture

There are many ways to capture GPS tagged video and imagery for upload and publishing on the Ubipix platform.

### 3.1 SmartPhone Apps

Download and use the free Ubipix SmartPhone App (Android, iPhone, Windows). You can capture GPS tagged video and image collections (Record Menu). Users can review these and upload selected clips directly (View Menu). The user will be prompted to login to their Ubipix account.



Ubipix also supports 3rd party SmartPhone GPS-Video Dashcam Apps(e.g. Daily Roads & AutoGuard)



Daily Roads App



AutoGuard App

## 3.2 GPS-Camera Devices



Ubipix also supports a growing range of GPS-camera devices including Dashcams (RoadHawk, Blackvue, SmartWitness etc), POV camera (Contour GPS, GoBandit), GoPro as well as various specialised mobile mapping systems & survey formats.



Get in touch with Support ([support@ubipix.com](mailto:support@ubipix.com)) to find out if your format can be supported.

## 4 Ubipix Platform Overview

There are a range of services that are provided on the Ubipix platform which are described in the following sections. These are structured around four core data management functions (Track Manager, Channels, Uploads, Account) which can be found on the home page after you login.



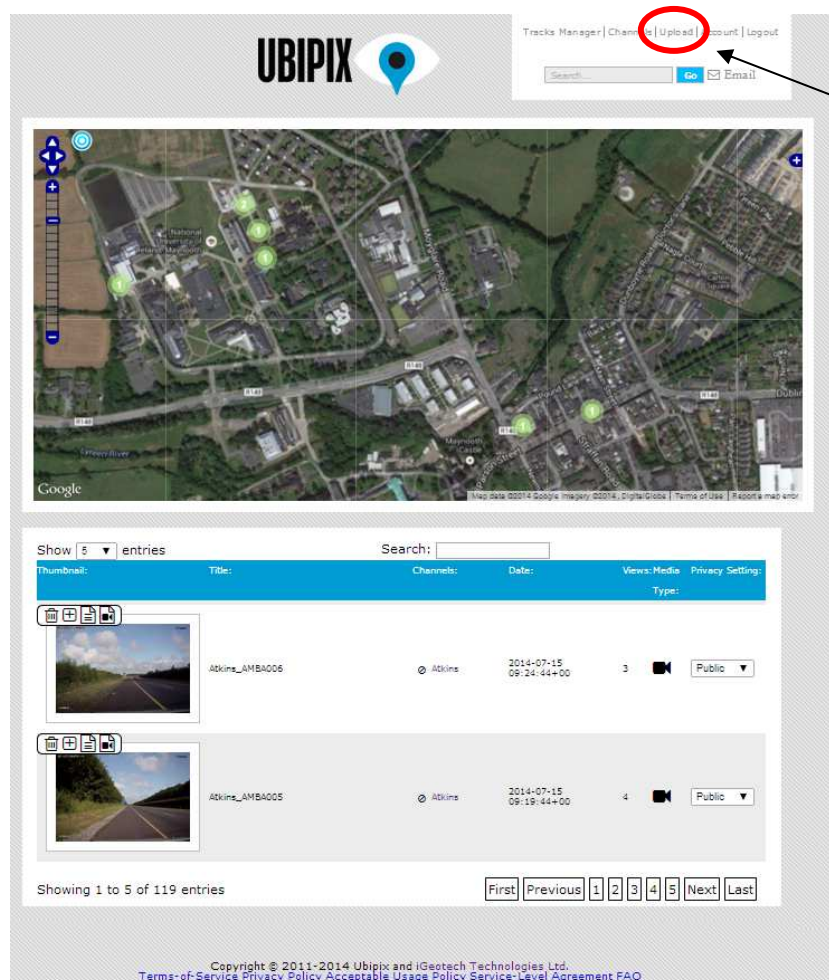


Main Menu Options to users when logged-in:

- **Track Manager** deals with organising, visualising, mapping and editing your tracks.
- **Channels** allows you setup, configure and catalogue your tracks for sharing.
- **Upload** enables users upload a range of supported 3rd party devices and formats
- **Account** allows a user oversee their own account including pricing plans, data throughput etc.

## 5 Upload Data

After capturing data, you can upload GPS tagged content directly from the Ubipix SmartPhone App ('View' Menu). Alternatively, where the file size might be large or indeed you have used another GPS-camera device simply login to your Ubipix account and select the 'Upload' menu.



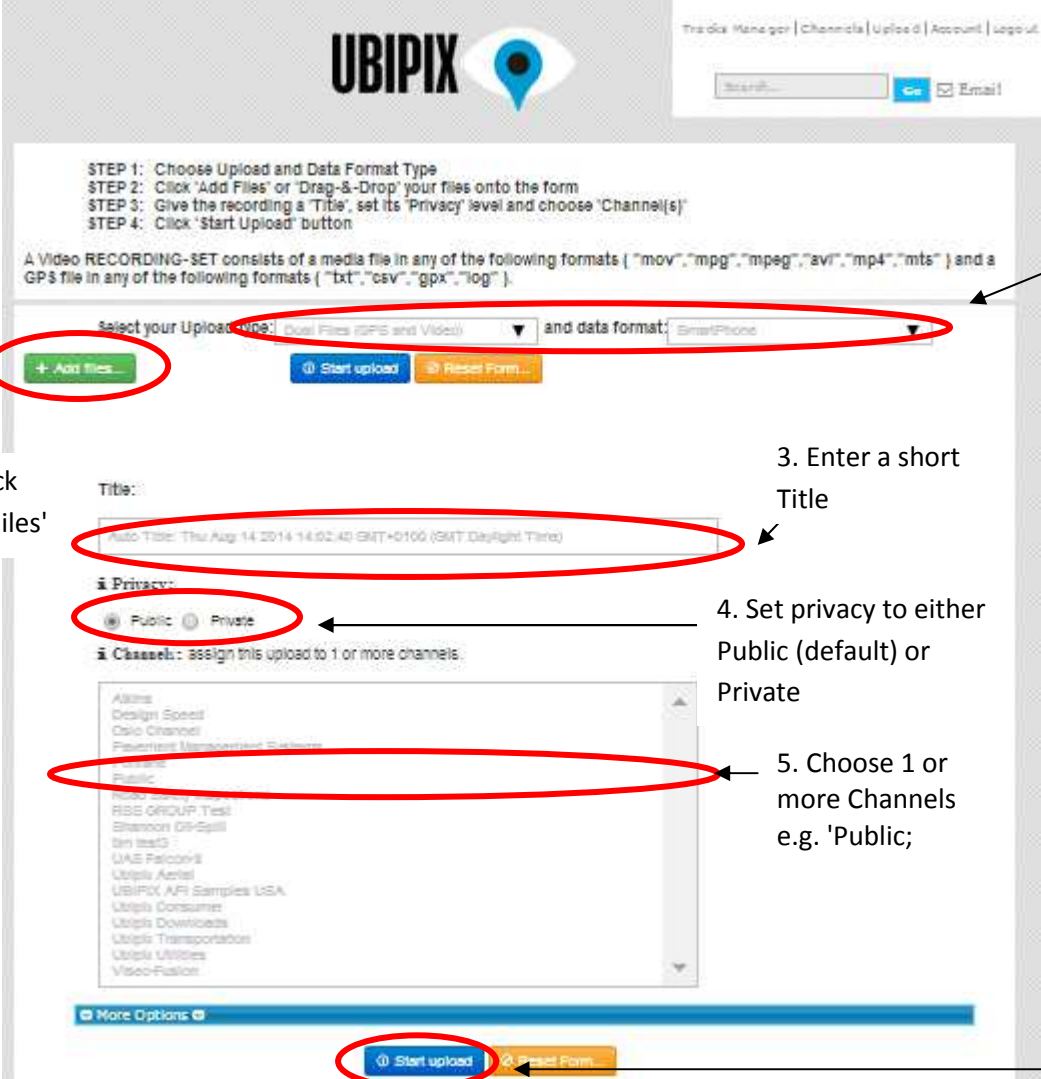
Click "Upload"

This action will display the Upload page, then follow the instructions for example:

1. Select Upload Type = Dual Files (GPS and Video) and Data Format = Generic GPS Camcorder

2. These two files can be drag'n'dropped onto the form or use the 'Add Files' button to add them both to the list at the same time (use Shift or control key)
3. Enter a Title
4. Select 'Privacy' setting : default = public
5. Select Channel(s): default = Public
6. Click 'Start Upload'

**Tip** See following section on uploading video and navigation files from SmartPhone



The screenshot shows the Ubipix upload interface. At the top, there are navigation links: 'Track Manager', 'Channels', 'Upload', 'Account', and 'Logout'. Below these is a search bar and an 'Email' button. The main form area contains instructions for uploading files. The form fields are annotated with red circles and numbered arrows:

- 1. Select Upload & format type:** Points to the 'Select your Upload type' dropdown menu, which is currently set to 'SmartPhone'.
- 2. Click 'Add Files':** Points to the green '+ Add Files...' button.
- 3. Enter a short Title:** Points to the 'Title' text input field, which contains the text 'Video Title: Thu Aug 14 2014 14:02:40 GMT+0100 (GMT Daylight Time)'.
- 4. Set privacy to either Public (default) or Private:** Points to the 'Privacy' section, where the 'Public' radio button is selected.
- 5. Choose 1 or more Channels e.g. 'Public':** Points to the 'Channels' list, which includes options like 'Public', 'Private', 'RIS GROUP Test', 'Shannon (G5-Spell)', 'bin test', 'UAE Falconville', 'Ubipix Aerial', 'Ubipix API Samples USA', 'Ubipix Consumer', 'Ubipix Downloads', 'Ubipix Transportation', 'Ubipix Utilities', and 'Video-Fusion'.
- 6. Click 'Start Upload':** Points to the blue 'Start upload' button.

The video and navigation data will be imported, processed and published automatically. An email will be sent to the user confirming that the data has been uploaded and published together with an URL. Processing time depends on data size but is typically in the order minutes for small files to tens of minutes for large uploads, depending on Internet connection.

## 5.1 Uploading Ubipix Data Files from SmartPhone

Users will sometimes wish to upload video and navigation files from their SmartPhones to Ubipix Web site via a USB connection and Uploads Web page. This section describes how this can be accomplished for both Android and iPhone devices.

### 5.1.1 Uploading Ubipix Video and GPS files direct from Android devices

Connect your SmartPhone to your computer via USB cable. Navigate to the 'iGeotec' directory which should be visible at the top level once your SmartPhone is connected as a storage device. You should see a list of sub-directories in iGeotec folder. These will correspond to the various tracks you have recorded. These sub-directories will be called Video1, Video2, Video3 etc. When you click any of these track sub-directories, you should see 4 X files

File name	Details
Video.mp4	Video file
Entries.txt	Navigation data
Headers.txt	Status file
Thunmbnail.png	A thumbnail of the video file

On your computer, login to your Ubipix account and select Uploads Page. Ensure the Upload Type = 'Dual Files (GPS and Video) ' and Data Format = 'SmartPhone'. To add files, navigate to the track directory containing the files listed in the table above. Select the 'Video.mp4' and 'Entries.txt' file and enter Title, Channel etc. before clicking '**Start Upload**'.

### 5.1.2 Uploading Ubipix Video and GPS files direct from iPhone devices

You will need to download an application that enables file browsing on your iPhone devices. Some free applications include ibrowse (<http://www.ibrowseapp.com/>) and iFunBox (<http://www.i-funbox.com>). Ensure you have iTunes installed on your computer and one of the applications above (iBrowse or iFunBox). Connect your iphone, start-up iTunes, then start up say iBrowse. Navigate to the location of Ubipix files on iPhone which can be located in the directory path: Apps\Ubipix\Documents\defaultFolder. Here, you should see a listing of your Ubipix video and GPS data, each track has 3 files. An example is listed in table below.

File name	Details
1410788122.mov	Video file
1410788122.txt	Navigation data
1410788122.png	Thumbnail

You will need to select the track(s) you wish to upload and copy them to your computer first. Make a note of the location you copy these video and GPS files. Then login to your Ubipix account and select Uploads Page. Ensure the Upload Type = 'Dual Files (GPS and Video) ' and Data Format = 'SmartPhone'. To add files, navigate to the directory on your local machine containing the files listed in the table above. For example, select the

















1410788122.mov (video file) and 1410788122.txt (navigation file), enter Title, Channel etc before clicking 'Start Upload'.


## 6 Track Management & Visualisation

Users can access Track Manager from Main menu. This displays a map with locations of all a user's clips and a table below listing each clip, a thumbnail and basic descriptors. This listing table can be sorted by selecting any of the column headings at the top of the table e.g. Title, Channel, Date etc.


Show 5 entries Search:

Thumbnail:	Title:	Channels:	Date:	Views:	Media	Privacy
					Type:	Setting:
	HyperUbipix Test2	 Public	2014-09-01 13:42:36+00	1		Public <span>▼</span>
	HyperUbipix	 Public	2014-08-26 12:10:48+00	6		Public <span>▼</span>

Each clip has a toolbar     over the thumbnail enabling the user to delete  the clip, add  the clip to any channels the user owns or is a member of download the navigation  or video .

To remove a clip from a channel just select the remove tool  located beside each channel name in the tables channel column. The privacy setting for any clip can also be changed using the associated drop-down menu in the right hand column.

### 6.1 Adding Clips to a Channel

Clicking the Add Clip to Channel button  displays the Add to Channel form below. Use shift or control keys for multi-channel selection and then click the Confirm button.

Add to Channels

Atkins

Design Speed

Oslo Channel

Pavement Management Systems

Portrane

Public

Road Safety Inspections

RSS GROUP Test

Shannon Oil-Spill

tim test3

UAS Falcon-8

Ubipix Aerial

UBIPIX API Samples USA

Ubipix Consumer

Ubipix Downloads

Ubipix Transportation

Ubipix Utilities

Viseo-Fusion

Confirm

Cancel

All of user's clips can be accessed through the Track Manager when the user logs onto Ubipix. The user can scroll through each clip in the table and carry out a number of functions in Track manager using the active graphical buttons displayed on the clip thumbnail. Clicking the thumbnail enables the user to view the video, dynamic position, map and graph profile in the Interactive Player.



The user can control the video display and re-play using standard Video Player controls, or clicking along the navigation trail in the map display or indeed on the graph profile. Feature and objects of interest can be recorded and tagged by simply clicking in the video window and just adding some simple tag details. More advanced tagging is available to Ubipix Corporate Account clients.

Most of the user's interactions with the Interactive Player are intuitive and each button has a small tool-tip describing the basic function. A number of buttons can be found along the top of the Interactive Player.



These tools allow the user to carry out a number of interactive mapping and visualisation tasks. Hovering over these symbols, in turn, will display each function.

## 6.2 Tracking, Heading & Units

Playback Settings: [x]

☐ Track POV

POV Orientation Settings:

☒ GPS Bearing

☐ Digital Compass

0 Compass Bias


Units of Measurement:

☒ Metric (mtrs.)

☐ US Standard (ft.)


Save All Settings:



Save Settings




Various tracking, heading and unit values can be set under Settings symbol  (Cog-like symbol on top left of Map display). Clicking this symbol will display a small drop down menu box (see left). The first option enables the user to select Track POV (Point of View) which, if ticked, will ensure the map re-centres anytime the dynamic camera position or POV begins to move outside the map display extents. POV heading can also be modified by entering a correction in degrees. Some GPS camera devices may contain a separate Digital Compass in addition to the GPS so, users can choose one or the other.




**Tip** If POV marker seems to be always pointing in the same position, change from default Digital Compass to GPS Bearing.

## 6.3 Tags & Tagging










Users can add Tags simply by clicking in the Video display window, enter a simple description and then click Save. There is also a button  that allows the user to toggle between Tag and Graph display. Clicking this button will replace the graph display with the Tag display.

POV Location: 53.385620,-6.599926				Distance from Start: 0.0000 kilometers		
ID	Title	Tools	Location	Distance to Start	Distance to POV	Date
END	Recording end		TAG: 53.385974,-6.604554 POV: 53.385974,-6.604554	1.1807	1.1807	2014-08-26 12:10:48+00
START	Recording start		TAG: 53.385620,-6.599926 POV: 53.385620,-6.599926	0	0.0000	2014-08-26 12:10:48+00

This display lists all Tags that have been recorded by the user. Start and End tags of the track are always displayed. An odometer displays the current 'Distance from Start' or distance of present track location from the Start Tag. Clicking the Link  symbols allows the user to share this clip-frame tag details with another user. Simply Copy'n'Paste the URL link that is displayed. Tags can be edited by selecting them in the Tag list. Description can be modified and details saved , alternatively the user can Delete  the tag.

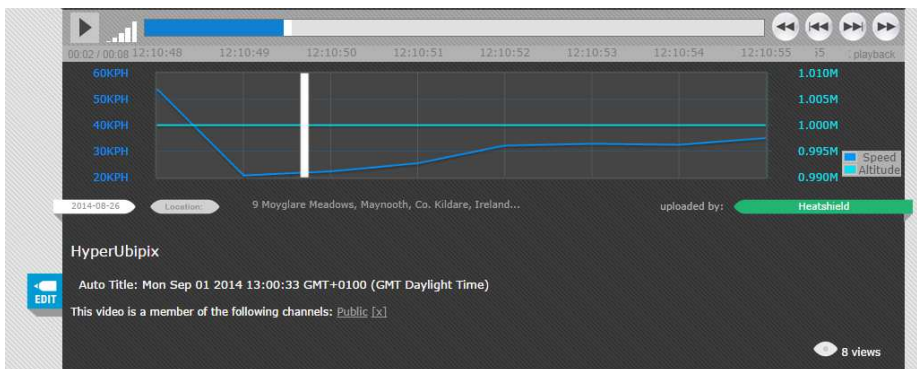
ID	Title	Tools	Location	Distance to Start	Distance to POV	Date
14283	<input type="text" value="item1"/>	  	TAG: 53.385974,-6.604554 POV: 53.385974,-6.604554	1.1891	0.0000	2014-09-14T07:25:33.547Z

## 6.4 Additional Mapping & Visualisation Functions

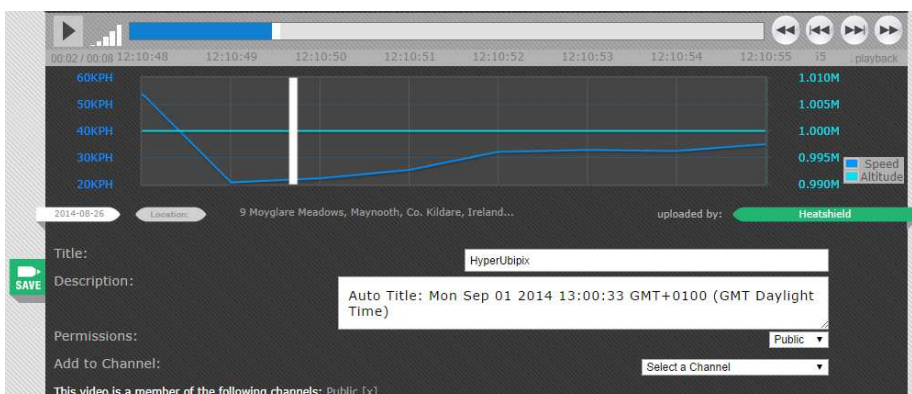
User can zoom in/out   of the map, zoom to entire Track extent , load images located nearby  and modify Tag location in the map display . Users can also capture current video frame at full resolution and also save this to local machine , switch video and image displays from side-by-side to top-bottom . Finally users can save video clip  and navigation data  to local machine. The video control bar has a play and pause button, volume control, time-line slider, frame stepper (forward and backward) and playback speed control.

## 6.5 Editing Clip Details

The owner of any clip can edit the details of the clips, manage the privacy setting and remove from a channel by clicking the Edit tab on the details section under the Interactive Player



The Title, Description details can be modified. The privacy setting on the Clip can be set by the owner of the clip to Public or Private. The user can also add the clip to any Channel by clicking the Add to Channel combo-box or indeed remove it from any Channel by clicking "[X]" symbol beside the channel listed in the line 'This video is a member of the following channels'.



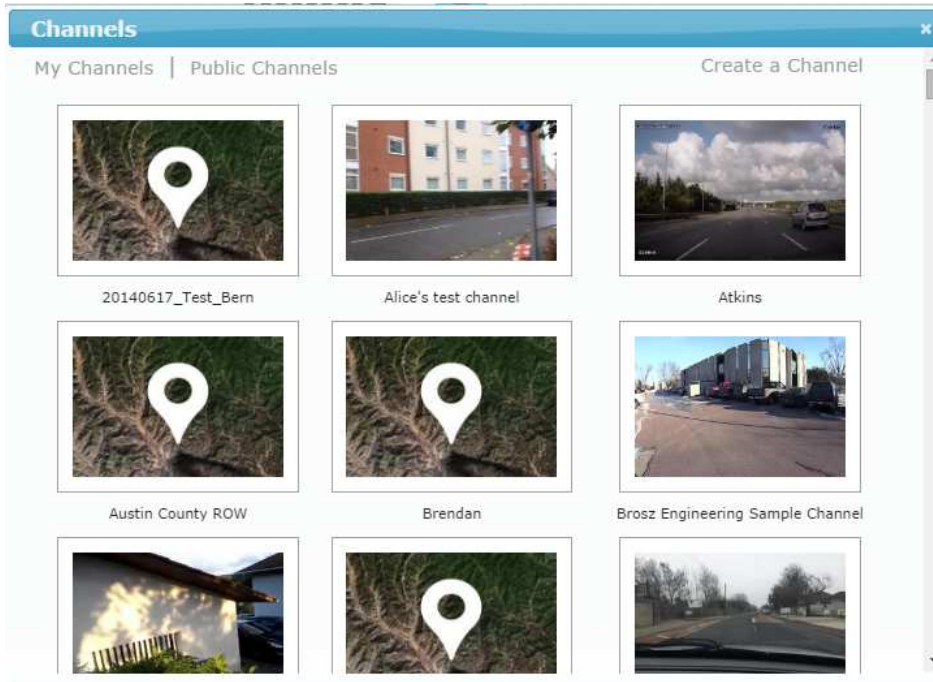
The screenshot shows the 'Edit' form for the clip. It includes fields for 'Title' (currently 'HyperUbipix') and 'Description' (currently 'Auto Title: Mon Sep 01 2014 13:00:33 GMT+0100 (GMT Daylight Time)'). There is a 'Permissions' dropdown set to 'Public'. Below this is an 'Add to Channel' section with a 'Select a Channel' dropdown. At the bottom, it shows the clip is a member of the 'Public' channel, with an '[X]' icon to remove it. A green 'SAVE' button is visible on the left side of the form.

Clicking Save, stores all modified settings.

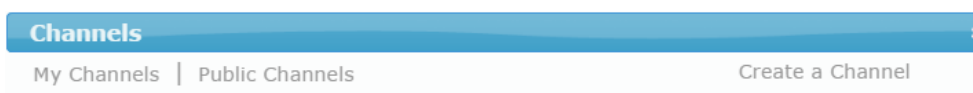


## 7 Channel Management

Users can manage and organise their clips using the Channel Management tool which can be accessed via the main menu. This tool allows you to carry out a number of tasks including create channels, add clips and invite users. Clicking the Channel link loads the Channel overview window, displaying thumbnails and names of Channels that you either own or those channels that you have been invited to become a member of.



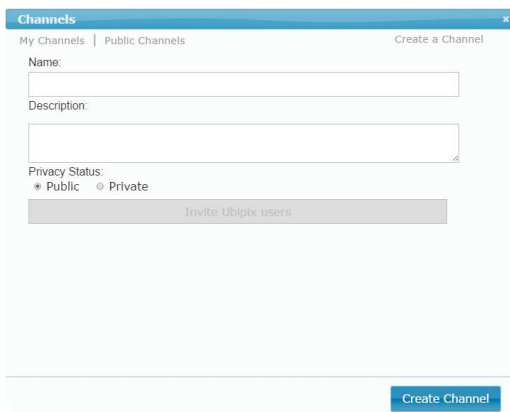
The user has three options at this level, click **My Channels** to just select and display all Channels owned by the user or those Channels that the user is a member of, click **Public Channels** to view all publically available channels and **Create a Channel** to setup a Channel, invite users etc.



### 7.1 Create a Channel

Clicking **Create a Channel** will load the form enabling the user to input the name of the new Channel, a description and whether this Channel is Public or Private. Setting this Channel **Public** results in the Channel being visible to all users, setting this Channel **Private** means it will only be visible to the channel owner and any users whom the Channel owner subsequently invites to the Channel.





**Channels**











My Channels | Public Channels | Create a Channel

Name:

Description:

Privacy Status:  
☒ Public ☐ Private





## 7.2 Managing Channels


A user who has created and/or owns an existing channel can carry out a number of Channel Management functions. To get started, simply click one of the channels that you own, this will load all the clips in a Table, see below. You can also visualise all these clips on a Map in the Channel by clicking **Map View**. In the table or List View, the user can view all clips that belong to this Channel. Note that over each clip are a number of tools      which indicate if you are an owner of the clip , if so, that you can delete this clip  remove the clip from the channel  or download the navigation  and video  to local machine.

List View | [Map View](#) for the Ubipix Transportation Channel

Options

Search:

Thumbnail:	Uploaded by:	Title:	Channels:	Date:	Views:	Privacy Setting:	Media Type:
	Heatshield	VA3	Public Ubipix Transportation	2013-03-27 17:53:43+00	6		Public
	Heatshield	VA2	Public Ubipix Transportation	2013-03-27 17:50:42+00	20		Public

Note the Options tool  Options at top right of Channel Manager. Clicking this tool loads a menu enabling the user carry out various Channel Management functions.

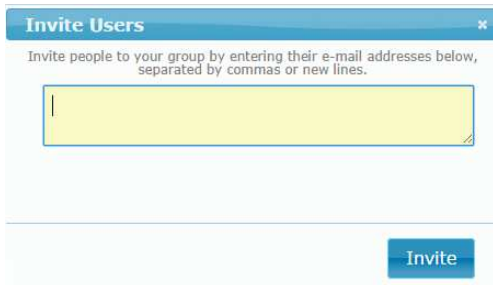
The user and owner of the Channel can carry out four main functions at this level:




- Invite Users to the Channel
- Manage Channel Users
- Set-up a Channel share link (if the Channel is a Private one)
- Save a collection of clips as a route

## 7.2.1 Channel Management: Invite users to the Channel

Clicking this option loads the Invite Users form and allows the Channel Owner enter email addresses of registered Ubipix users separated by comma or separate lines. Clicking the Invite button sends automated emails to these users, inviting them to join this channel.



## 7.2.2 Channel Management: Manage Channel Users

Clicking Manage Channel users loads the Channel User Management form. This lists all members of the channel detailing their user name and email address. The status column indicates if they have been invited, are members or blocked. The owner of the Channel will also be indicated under this Status column. The Channel owner can remove any users from the Channel by clicking the red/grey  symbol.

Users in "Viseo-Fusion" Options

Search:

Name:	E-mail Address:	Status:	Remove Users:
Ciaran McCarthy	ciaran.mccarthy@nuim.ie	Invited ▼	
Heatshield	tim.mccarthy@igeotec.com	Invited ▼	
Paul Lewis	paul.lewis@nuim.ie	Channel Owner	

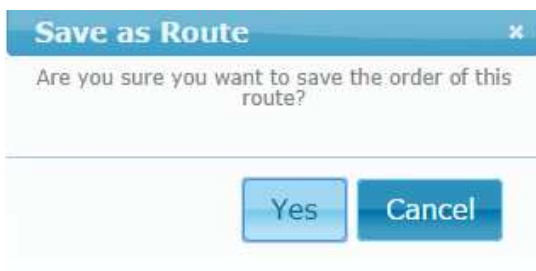
## 7.2.3 Channel Management: Generate a Link to Share this Channel

Clicking Channel Share Link loads the URL Share Link generation display. Simply enter the number of days you wish for this link to be active and then click **Generate New Share-Link**. This URL can then be copied by you and sent to anyone you wish and enable them access this channel with all clips for that period of time. The period of time can be set in the box beside **Days to expire**. If you wish to cancel or extend simply load this function and re-generate the URL Link. The old URL link becomes invalid immediately.



## 7.2.4 Channel Management: Save as Route

This function is useful if the user would like to view the entire Channel collection and associated linear navigation tracks in the map display. This could apply to say a survey of a linear feature such as roadway or pipeline but comprising various clips perhaps collected at different times or split into more manageable tracks. Setting the Channel as a route allows all of the clips to be viewed on a single map display and enables the users to view associated video clips (pop-up window) by clicking on any of the navigation tracks in the map display. Then click **Save as Route** from Options menu to load the form.



The user can then view these clips comprising the full route using the Map display and floating video display



## 8 My Account

Every registered user can access their account setting here by clicking on the **Account** setting on the main menu.

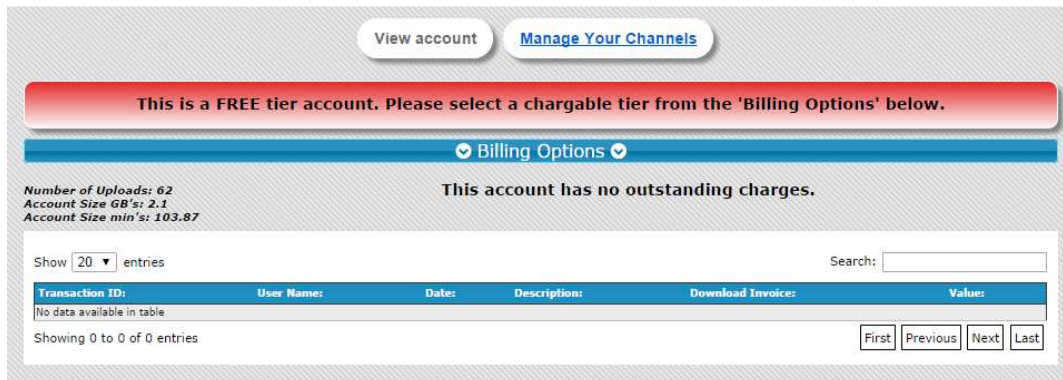
You can carry out a number of tasks here :

- View Account Details
- Manage Your Channels

## 8.1 View Account Details

The main Account page (below) displays key statistics including; number of clips uploaded to-date by the user (**Number of Uploads**), the Account size in GigaBytes (**Account Size GB's**) and Account Size in Minutes (**Account Size Min**). The main page also lists Invoice log including dates, description, Value and also download links to access a PDF copy of the Invoice.


**Note** If there are any payments due then a Credit Card payment option will appear.



Clicking the Billings Options loads details relating to the choice of Pricing Plans available to the user. These allow the user to change to a different Pricing Plan if required or switch currency.



## 8.2 Channel Management

Clicking **Manage Your Channel** button loads a table listing Channels on your account. You can change Channel Title, Description details and also modify Privacy setting of the Channel to Public or Private. Click the Save button  to commit any changes to the database.

