



# DigTrace *Photo Sort*

## DigTrace *Photo Logger*



### *User Manual*

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[www.digtrace.co.uk](http://www.digtrace.co.uk)

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# 1.0 Introduction

**DigTrace Photo Sort** and **Photo Logger** are programmes that enable organisation of photographs according to time and location, where they have been taken. To assist with this task, **Photo Sort** provides a spatio-temporal visualisation of all the visited sites (Fig. 1).

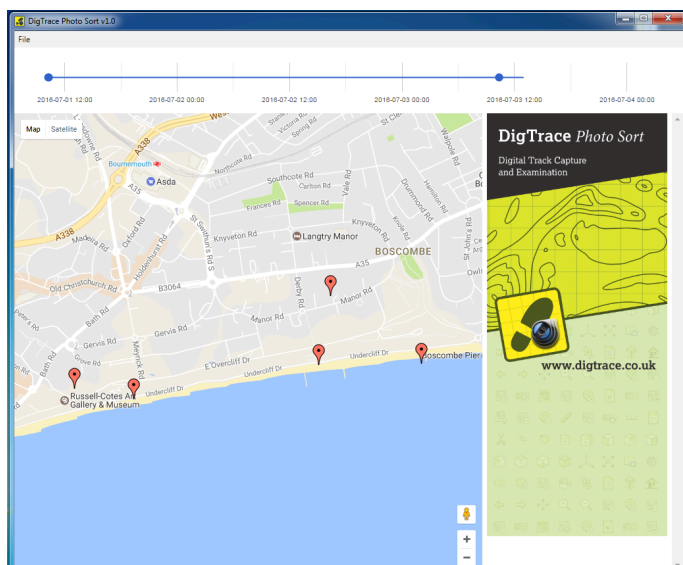


Figure 1: DigTrace Photo Sort showing time and location of photographs.

The software has been originally designed to assist with collection of digital photographs during field trips with digital SLR cameras that do not support geo tagging. DigTrace Photo Sort was designed to help managing

photographs and to sort them according to time and location into appropriate folders for further processing by DigTrace Pro or Academic, an integrated software solution for the capture and analysis of 3D data whether in a forensic context (footwear evidence) or in the study of vertebrate tracks and footprints.

**DigTrace Photo Logger** is a mobile companion application that allows to log time and coordinates of every single photograph or group of photographs (Fig. 2).

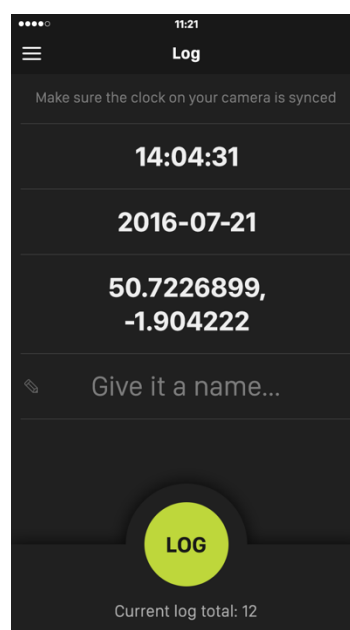


Figure 2: DigTrace Photo Logger log screen.

## 2.0 Installation

To install DigTrace Photo Sort, you first need to download it from <http://www.digtrace.co.uk/downloads/>. Once downloaded unzip the file and run *digtrace-photo-sort.exe*.

To install DigTrace Photo Logger app, please go to Google Play store or Apple App Store.

## 3.0 Operation

In order to enable automatic organisation of photos with *Photo Sort*, the below steps need to be followed:

- 1) While taking photographs you should have our DigTrace *Photo Logger* app on to log time and coordinates of each photo;
- 2) When you're done, you have to export your log file, photos from the camera and optionally .kmz files to your project folder. Then you can sort all your images and separate folders representing different locations. In the context of further processing using DigTrace *Pro* or *Academic*, this will correspond to individual tracks or/and footprints.

Open your DigTrace *Photo Logger* mobile app and the screen similar to the one in Figure 2 will appear. First, you make sure that the clock in your camera is synchronised with the app. This is to ensure that the photographs are properly time-tagged. Then, enter a name of the first group of photographs and press the LOG button. Now, take a series of photographs with your digital camera. Every image you take till the next time LOG button is pressed, will be assigned to your first photo group.

Every time you want to start taking photos you want to be grouped together, you have to enter a new group name and press the LOG button, to separate these images from the previous ones.

Once you are done taking photographs, you can export the .log file (Figure 3) and use it later with DigTrace *Photo Sort* software to automatically sort them based on time and location data.

After exporting all your photos from your camera to a single folder and putting the associated .log file in the same folder (and optionally, any .kmz files you want to appear on the map), you're ready to start using DigTrace *Photo Sort*.

Figure 4 shows the main windows of DigTrace *Photo Sort*. Click on the "open" button to navigate to and then select the folder in which your log file, photos and optionally .kmz files are stored.

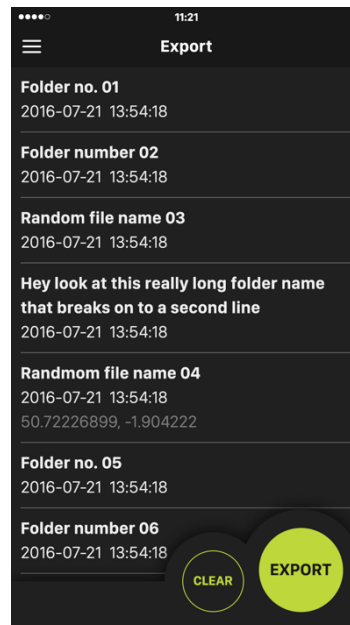


Figure 3: DigTrace *Photo Logger* screen.

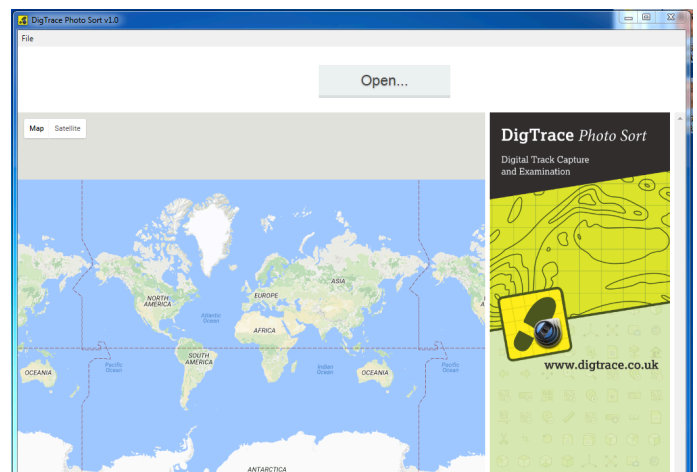


Figure 4: DigTrace *Photo Sort* window.

Once appropriate folder is selected press OK. After a short moment, you will see marked locations on the map and the timescale on the top of the screen (Fig. 5).

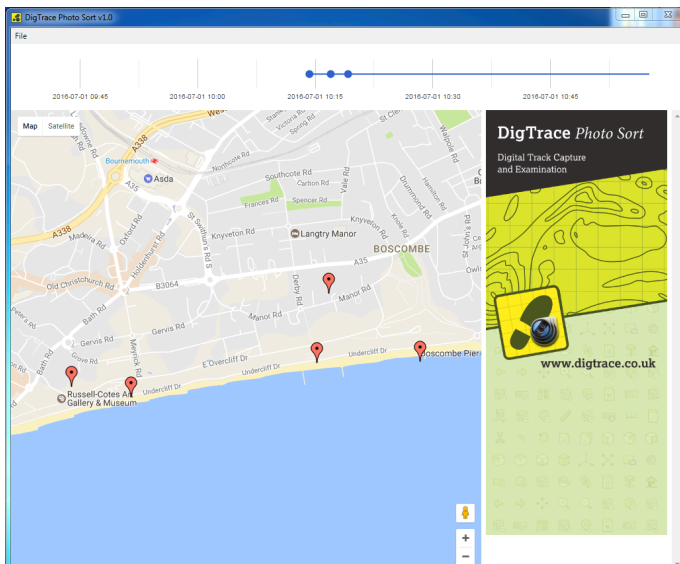


Figure 5: Map with the marked location and time of the photographs.

You can hover the mouse over location, either on the map or on the timeline, for a quick preview or click to select (click again to deselect). You will be able to see all the images taken at that specific time and place on the right sight of the screen (Fig. 6).

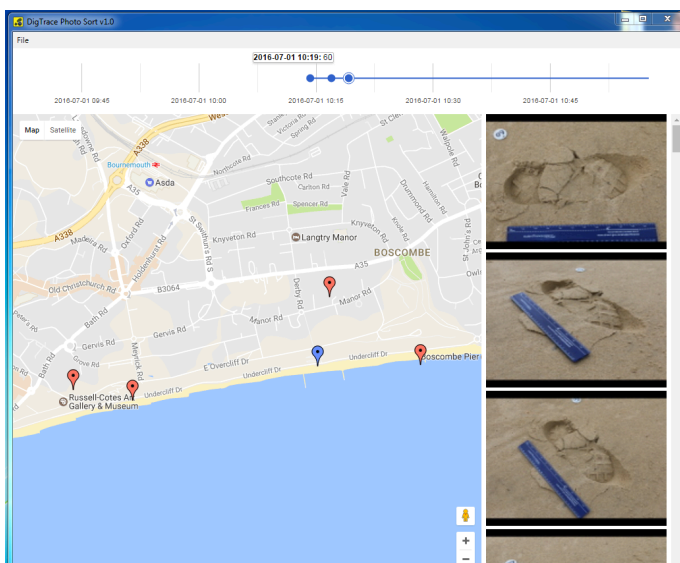


Figure 6: Screenshot with selected location and time.

Sometimes the points on your timeline may overlap. To be able to see all the locations you have to enlarge selected parts on the time timeline scale. To do so you need to highlight chosen part of the timescale using your mouse as shown on Figures 7-9.

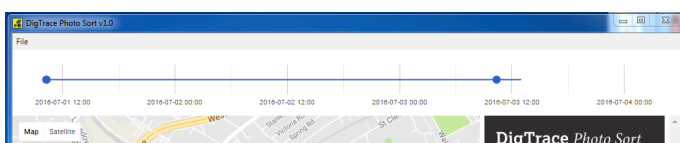


Figure 7: Timeline with overlapping locations.

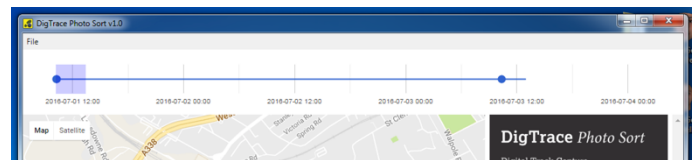


Figure 8: Timeline with selected part.

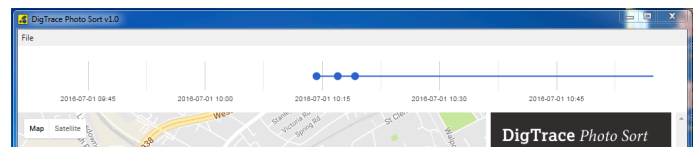


Figure 9: Enlarged timeline.

You can also click on the selected photograph to zoom it and see it in separate window. The preview functionality also allows you to remove photos which are out of focus etc. – they are not physically removed from the disk but will be ignored when sorting files into folders. You can do so by clicking on the cross symbol (Figure 10).

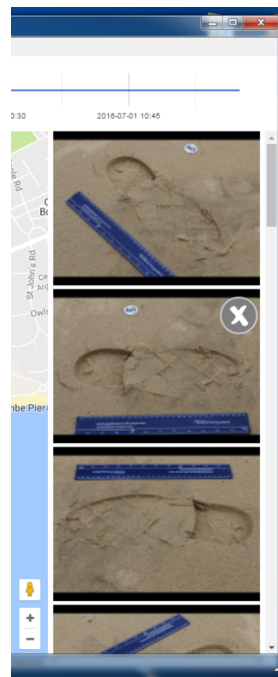


Figure 10: To delete unwanted image you have to click on the cross symbol on the right top side.

DigTrace Photo Sort allows you to upload .kmz file in order to visualize very small or uninhabited places (e.g. forests, deserts) where there is no map visible. Placing additional maps on these areas can help to navigate location of the images you have taken (Figure 11).

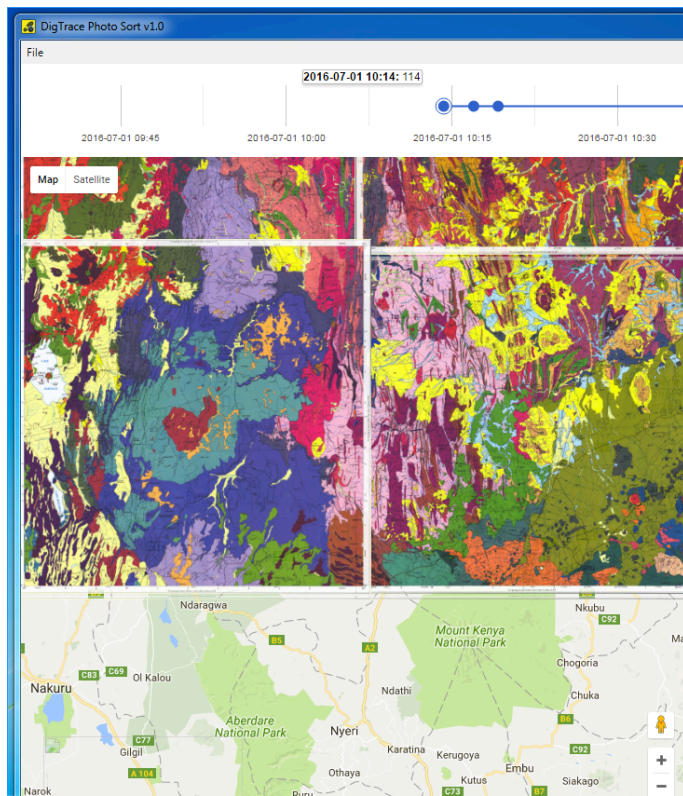


Figure 11: Screenshot of the map with the .kmz file on.