

Getting coordinates using HP Map Aligner

Map Aligner should have already installed on your PDA when you installed the mediascape toolkit software (if not, on your PC go to **Start > Programs > HP Mediascape Authoring Toolkit > HP Mediascape Client Installer** and follow the installer instructions.)

You may want to print these instructions out and take them with you when you go outside:

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- 1) Start by finding an image that you want to use as a map, perhaps a map image that you already have, or a sketch or other image that you want to use. It must be a .BMP, .JPG, or .GIF image. Copy it to your PDA, use your storage card if you have one, or wherever you usually store your media files.
 - 2) Go outside to the area that you want to find coordinates for, to a space that is clear of buildings and trees where you have a good view of the sky. Once there, turn on your PDA and GPS device (if separate) and wait for a GPS signal.
 - 3) Find the Map Aligner software on your PDA by clicking on **Start, Programs, Map Aligner**.
 - 4) The software should open and bring you to a screen requesting you to select an image (the image that you will be using as your map). Find the map image that you have saved on your PDA and click on it.
 - 5) The software will now ask you which GPS Port is in use (e.g. 6. Bluetooth Serial Port). If you don't know which port you are using, you could guess until you get it right, there aren't many choices.
 - 6) Next, click **Set Advanced Grid Options** and select your country from the list available, then select your map grid. Note in the UK we recommend that you select 'British_Grid'.
 - 7) Check that your GPS unit is on and getting a signal, then click **Next**. The software will now start searching for a GPS connection. If your GPS unit isn't working properly or getting a signal, you need to fix this before you can proceed. You can close the software and make them connect then start at step 3 again (it should save most of your settings).
 - 8) Once the software picks up a GPS signal, it will automatically display your image and ask you to add your first point. Note where you are standing and where this will be on the image on the PDA, then click on your map exactly where you are standing. Stand still, and click **Add Point**.

9) Stay standing still while the software gets the GPS information, it takes approximately 30 seconds to get enough information, it will tell you when it is ready to take the next reading, usually after about 60 'fixes' which you will see counting up on the screen.

10) Once the **Next Point** button becomes clickable, you are ready to complete this point and do this again. Click **Next Point**, then walk a short distance and repeat steps 8 and 9. You probably only need to walk 20 meters or so. Note: Be careful not to walk away before clicking **Next Point**, otherwise your GPS reading will be inaccurate. If you do this, use the **Back** button to delete that point and try again.

11) Repeat these steps to add 5 or 6 more points to your map. A yellow circle will appear on the screen. The aim is to have the yellow circle appear exactly where you are on the map. The smaller the yellow circle is (hopefully you can get it as small as the marks you are making on the map) the more accurately the software thinks it knows where you are. The yellow circle should follow you walking around the map, check that it does this beyond just the area that you have added points.

Tip: If after 7 or 8 readings you still aren't able to get an accurate yellow circle that is following you around the map, it might be better to exit the software and start again. Adding more points doesn't help it become more accurate as one of the points may have taken a bad GPS fix and be causing problems.

12) **Save and exit** when you are happy that you have an accurate yellow circle that knows where you are.

13) The file that this has created will be saved in the same location as the map image, and will have the same name except with a .MAD extension. Copy the .MAD file on to your PC to a location you can remember.

14) Now use the HP Maplib Maker application (which is also included free in the HP Mediascape Authoring Toolkit package, and can be found under **Start > Programs > HP Mediascape Authoring Toolkit > Maplib Maker**). Follow the wizard instructions to make a new Maplib file which you can then add to the Mediascape Editor and start using.

That's it!