Instruction Manual

No-Nonsense Navigation

Instruction Manual

No-Nonsense Navigation (N3) is the GPS receiver that just tells you what you want to know: Where am I?

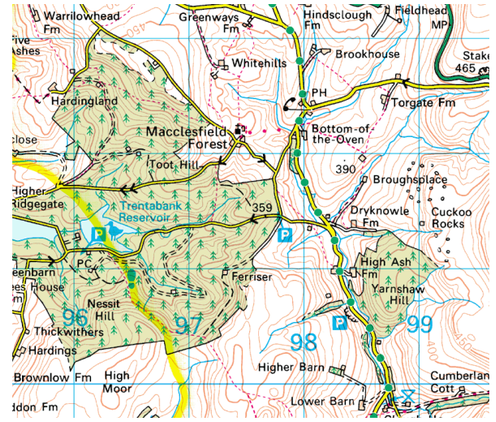
Made by Jonathan Heathcote for Richard Heathcote, A Great Dad.

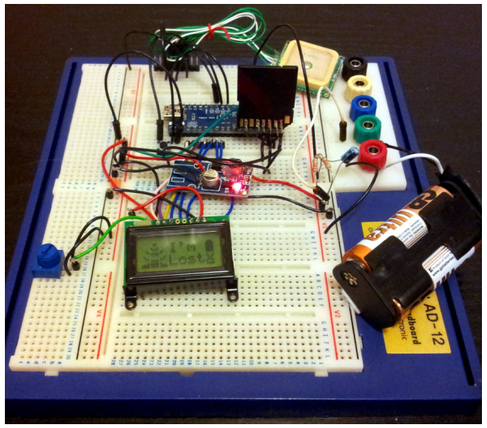
No-Nonsense Navigation

Instruction Manual

No-Nonsense Navigation (N3) is the GPS receiver that just tells you what you want to know: Where am I? It doesn't get in your way with useless route planning features and coordinates that don't work with your maps. When you turn N3 on, it immediately starts searching for satellites and, the moment it gets a fix, tells you where you are using the most sensible coordinate system it knows of, for example an OS National Grid reference. In the background it also automatically logs your route to an SD card so you can look at it later using popular mapping software such as Google Earth and Bing Maps. Pressing the red 'next window' button brings up further information such as the current altitude.

In the UK, OS maps are the "one true map". N3 uses the official, simplified OS formulae to convert from WGS84 latitude and longitude (used by most GPS receivers) to National Grid References with minimal additional error.





N3 was lovingly hand built out of various bits and bobs (see picture). Unfortunately it is all stuffed inside a fairly naff box from Maplin whose claims of being rain-proof are greatly exaggerated. **You should try to keep N3 dry!** Sorry :(

Finding Your Current OS Grid Ref: 1-Step Quick-Guide

1.
Turn on N3 using the black toggle switch.

2.
There is no step 2.

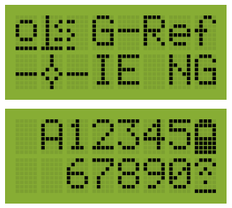
Indicator Icons

- Battery Level

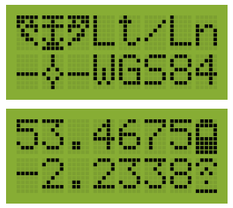
Fix Quality

- No Satellites
- Not Enough Sats.
- 2D (Poor) Fix
- 3D (OK) Fix
- 3D (Best) Fix

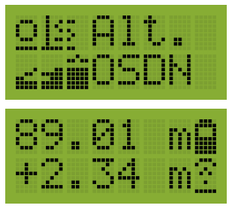
OS Grid Ref.
Shows your twelve figure National Grid reference. Maximum 5-10m accuracy. (Default in UK).



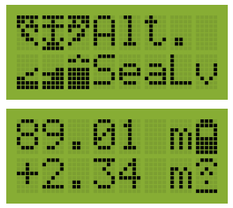
Irish OS Grid Ref.
Shows your twelve figure Irish National Grid ref. Maximum 5-10m accuracy. (Default in Ireland).



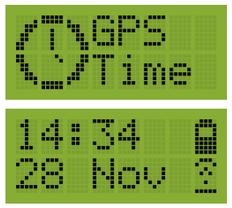
Lat. & Lon.
Your position in the WGS84 coordinate system. Maximum 5-10m accuracy. (Default elsewhere).



OS Altitude
Approximate OS Altitude. Hold 'next window' button to reset. Maximum 10-30m accuracy.



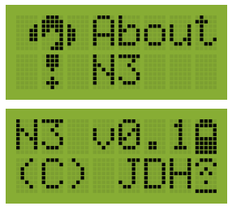
Sea Level Altitude
Approx altitude above sea level. Hold 'next window' button to reset. Max 10-30m accuracy.



GPS Time & Date
Current Coordinated Universal Time (UTC) and date (approx. GMT). Accurate to <1 second.

SD Card Status
Displays an error if the SD card couldn't be accessed. Note: logging only works with a GPS fix.

Satellite Info
Displays the number of visible GPS satellites in the sky and the type of fix achieved.



About N3
Displays the N3 software version and credits.

"For Richard Heathcote, A Great Dad." — About N3

How to view route logs in Google Earth

Google Earth includes a free and powerful GPS track viewer which can overlay walks on satellite imagery and Google's mapping data.

1.
Open Google Earth and insert the SD Card.

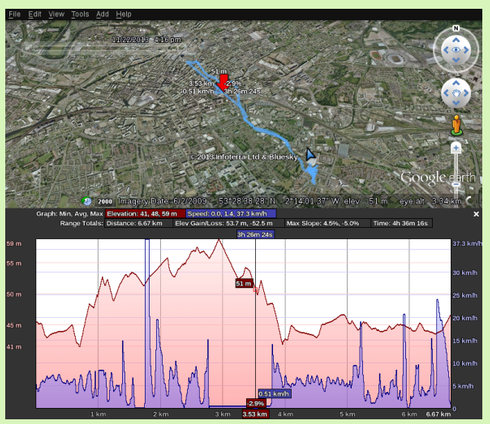
2.
Select File then Open.

3.
Select the file type as "GPS (*.gpx, [...])"

4.
Choose the data to view from the SD card. Files are named YY-MM-DD.

5.
Accept the default import arguments. Select "Adjust altitudes to ground height" to correct altitudes using Google's map data.

6.
Select Edit, Show Elevation Profile to see speed & altitude.



How to view route logs on top of OS Maps

A number of websites provide access to the free OS map data and support displaying GPX files.

1.
Go to http://maps.the-hug.net/

2.
Click ☰, Load GPX.