

POInspect0r 5.0

RNS 510 Personal POI

Quick Start Guide

March 2011 Version 1.0 This is a very quick guide on how to use POInspect0r to create your own custom PersonalPOI database for use on the Volkswagen RNS510 Satellite Navigation System.

This document is provided "as is" and has been created after some considerable time working with both the RNS and also POInspect0r.

As ever, thanks to rds++ for his amazing work on the application!

What you will need

For this to work, you will need the following items:

- a VW RNS510 with firmware 38xx or later installed
- a Windows XP or later system
- a suitable SD card for data transfer
- points of interest data (such as speed camera databases)

Installation

Download the latest POInspect0r from <u>http://poinspect0r.blogspot.com/</u> and then install on a suitable Windows PC.

Prepare the POI data

Download or create a suitable CSV or ASC file of points of interest. They need to contain, as a minimum, a name for the location and a latitude and longitude. POInspectOr can use a variety of file formats – please check the documentation. More about additional fields later in document.

Create a new Database

You can either chose to create a new database or re-use one that already exists. The current beta version of POInspect0r can create a new database for you.

🖚 POInspect0r (for RN5510) v 5.1.3beta [db3 r	eady] by rds++			
Build in DVD POIs DB3 POIs				
🔒 New DB3 file: "C:\Documents and 5 🚘 🚱 F	Reload Lang: 💽 Icon	n set:		🖕 Preferences 🛛 🥝 Info
DB ID:	Created:	Core ver.: P	Ol ver.:	
	Category POI list			
	Name	Latitude Longitude		
			_	
		T . 1		
	Enter search text	i otai rec. count:	U	
	🗆 POI details			
	_ID	(no value)		
	City	(no value)		
	Country	(no value)		
	House#	(no value)		
	ISO Country	(no value)		
	Name	(no value)		
	Phone#	(no value)		
	Region	(no value)		
	Street	(no value)		
	Village	(no value)	L	
			Z	oom level: 10 🏒 Locate on click only

Firstly launch POInspectOr from within Windows Explorer.

Now select "New" from the top left of the window and name the database with a suitable name (suggested is PersonalPOI). This name appears on navi screen as well.

New db	×
Enter new db3 filename	
PersonalPOI	
OK Cancel	

This will create a new database called PersonalPOI.db3 in the POInspect0r directory. If you wish to move this database, close POInspect0r, move the database, reopen the application and then locate and open the PersonalPOI.db3 file.

Tip: When you do not see a changes you've made, try click on reload button 1st.

Once you have created a new database, you will see a window with one POI category called "PersonalPOI" in the left.

📣 POInspect0r (for RNS510) v 5.1.3beta [db3 r	eady] by rds++		- O ×
Build in DVD POIs DB3 POIs			
🔒 New DB3 file: "C:\Documents and S 🔗 🦻	Reload Lang: cs 💌 Icor	n set: 2D.34.39.PNG.Day	실 Preferences 🕜 Info
DB ID: PersonalPOI.db3::EDB_20101225193	837_15 Created: 201	1-02-20 Core ver.: 1.01 POI ver.:	1.07
Personal POI	Category POI list		
	Name	Latitude Longitude	
	Enter search text	Total rec. count: 0	
	🗆 POI details		
	_ID	(no value)	
	City	(no value)	
	Country	(no value)	
	House#	(no value)	
	ISO Country	(no value)	
	Name	(no value)	
	Phone#	(no value)	
	Region	(no value)	
	Street	(no value)	
	Village	(no value)	
			Zoom level: 10 🔀 Locate on click only

To change the name of this category, you simply right-click and then select "Edit category."

Category	×
Name: Speed Cameras Icon: CLASSIC_RADAR	OK Cancel

We now want to add some further categories (or "children") to this main category. Right-click the newly named category and then click "Add category > add child". If you were wanting to add a new top-level category, then you can select "sibling" to keep it at the same level.

You can drag and drop categories to move them about. This will move category in the new selected parent folder. To move any non root category to the top root, drag and drop it to the bottom white empty place.

To delete a category you must first remove all POIs from that category and then remove the category itself.

📣 POInspectOr (for RN5510) v 5.1.3beta [db3 ro	eady] by rds++		_ _ ×
Build in DVD POIs DB3 POIs			
🔒 New DB3 file: "C:\Documents and S 🚔 📝 F	Reload Lang: en 💌 Icor	set: 2D.34.39.PNG.Day	🔱 Preferences 🛛 🥝 Info
DB ID: PersonalPOI.db3::EDB_20101225193	837_15 Created: 201	1-02-20 Core ver.: 1.01 POI ver.	1.07
Speed Cameras	Category POI list		
Add category - as siblin	ng		
Edit category - as child	he he	Latitude Longitude	
Delete category			
Add POIs			
Delete POIs			
		Tabalana anumb 0	
	Enter search text	Total rec. count: U	
	🖻 POI details		
	_ID	(no value)	
	City	(no value)	
	Country	(no value)	
	House#	(no value)	
	ISO Country	(no value)	
	Name	(no value)	
	Phone#	(no value)	
	Region	(no value)	
	Street	(no value)	
	Village	(no value)	
			Zoom level: 10 🌠 Locate on click only
1			

Create a suitable named category and then select the appropriate icon. In the current beta you cannot use your own icons.

In the latest version of POInspect0r new button called "Tools" has been added. There is possibility to add custom icons.

Category	×
Name: Speed camera (fixed) Icon: CLASSIC_RADAR_3	

Add all of the other categories to the main category (as "siblings") and select the appropriate icons. Once you have done, you can now add the POIs.

I always make back up copies at various stages - this can help when all goes wrong and you have spent ages setting up the categories!

🚳 POInspect0r (for RN5510) v 5.1.3beta [db3 r	eady] by rds++		
Build in DVD POIs DB3 POIs			
🔒 New DB3 file: "C:\Documents and S 🧟 📝 F	Reload Lang: 🔽 📕 Icon	set: 2D.34.39.PNG.Day	👙 Preferences 🕜 Info
DB ID: PersonalPOI.db3::EDB_20101225193	837_15 Created: 2011	-02-27 Core ver.: 1.01 POI ver	r.: 1.07
😑 族 Speed Cameras	Category POI list		
Speed camera (average)	Name	Latitude Longitude	Pontypool
Speed camera (fixed)			Panteg
Speed camera (mobile)			wood
Speed camera (red light)			Cwmbran
Speed camera (temporary)			
	[Total region	
	Enter search text	rotarrec, count, u	Newport
	🗆 POI details		y O
	_ID	(no value)	I I'M T
	City	(no value)	StiMellons
	Country	(no value)	
	House#	(no value)	Trowbridge
	ISO Country	(no value)	
	Name	(no value)	
	Phone#	(no value)	Grangetown
	Region	(no value)	Penarth
	Street	(no value)	Manuele
	Village	(no value)	The Severn Map Data - Terms of Use
			Zoom level: 10 🔀 Locate on click only

Right-click a category and select "Add POIs". This brings up a new dialog where you can enter data,.

POIs	×
Map zoom level: 400000	ОК
Map priority: 255	Cancel
Alert distance: 0	
POI data file (asc gpx kml ov2):	
	2
Show POI preview dia	alog 🔽
Delete current POIs before add!	

At the moment there is no evidence that the RNS will use the alert data for visual or audible alerts – this may well change when it comes out of beta.

The "Map zoom level" is in 10cm increments. The value of 400,000 means "only show this icon when the map zoom level is at 40km. So, if you had a POI that was only relevant when at a high zoom level (such as a red light camera), then you can enter a lower value (such as 1500 for 150m.)

Leave the other two settings as they are for the moment.

Once you have select the POI file, you will then be presented with a window confirming the locations of the POIs. It is worth checking one or two of them (you will need an internet connection for the Google maps) and then click the "OK" button.

Imported POI list preview				<u> </u>
POI data file (asc gpx kml ov2): "Z:\Macintosh HD\Users'	'Desktop\p	oi\POIs\speed\lates 🛃	Spain	Map Satellite
Name	Lon		Portugal	Giote T
W CATSO 1040	2 17797	E0 4920E		Mediterranean -
NE-CATSO: 2030	-2.17707	50,00303	+ Maragaa	Sea
SW-GATSO:2000	-2.09935	53 50271	-	
NE-GATSO:8@20	-0.11083	52 02668	Alg	eria
NE-GATSO:10@50	-0.39579	51 5215	Western	Libya
E-GATSO:12@30	-2.48386	52,69615	Sahara	- Lgypa
N-GATSO:14@60	-2 74784	53 32441		
E-GATSO 15030	-0.76298	51 98999	Mauritania	
N-GATSO:16@30	-0.24594	52 58496	Mali	Niger
S-GATSO:17@60	-2.77217	55,74874	and the second	Chad Sudan
5-GAT50:21@30	-2.11319	53,47244	Burkina	Condum 2
NE-GATSO:26@30	-1.92987	53,8375	Guinea Ghana	Nigeria A
SW-GATSO:27@30	-1.92905	53.83834	242 / 31	- A man
SW-GATSO:28@40	-1.92453	53.84126	G	it of a lotte
SW-GATSO:29@40	-1.92097	53.84592	GL	Inea
NE-GAT50:30@40	-1.92058	53.84655		Gabon
NW-GATSO:32@30	-0.78091	51.66771)	DR Congo
N-GAT50:33@70	-3.7344	56.27685	-PB	mv.
SW-GATSO:35@40	-1.31735	53.27676	-PE	Lon Lan
NE-GAT50:38@40	-0.26351	51.54893		S LAND
NE-GAT50:39@30	-2.11569	53.07313	E	Angola
S-GATSO:40@30	-2.11313	53.37013		
SW-GAT50:41@30	-2.10855	53.0786		
W-GATSO:42@30	-2.07133	53.36424		Namibia
SW-GATSO:43@40	-2.04148	53.09077		Botswana
NW-GAT50:44@30	-2.01128	53.10325		
NW-GAT50:45@30	-2.00906	53.10129	South	
SE-GATSO:46@50	-1.94352	53.07334	Atlantic	
NW-GAT50:47@50	-1.93755	53.07128	Ocean	Africa
N-GATSO:48@30	-2.24913	53.52266		
NE-GATSO:49@30	-2.20683	53.49706		
N-GATSO:51@40	-2.14401	53.54998		
S-GATSO:52@40	-2.14209	53.55214	Google	Mar Data Tarra at Mar
E-GATSO:53@40	-2.13267	53.55692 🚬		Map Data - Terms of Use
# of POIs: 4167		ОК	Zoom level: 10 🏒	

Repeat these steps for all of the various categories.

Once you have added all POIs, do a final "Reload" and then, once all looks fine, close the application.

ASCII file format description

This is only format (for now) which supports extra info fields to be imported

Supported convention: separator [,] - string quote ["] - character [;] at beginning of line = commented line, this line is ignored lon,lat,name name1,country,region... I lon,lat,"name, name1","country", region... Supported fields: *lon,lat,name,country,region,city,street,house#,phone#* Example: *14.443444, 50.050892, "Speed cam, 50kmh", UK, ,London, a Street, 2118, 005221454787*

Page 7 of 17

Copying the database to your SD card

The database is stored within the POInspectOr directory, unless you specifically move it. It will have the name you entered when you created the database, in this example it is called "PersonalPOI.db3".

Insert an SD card in to your computer and then create a directory at the "root" level of the card called "PersonalPOI".

Copy the database in to this directory and then safely remove the SD card from the system.

Installing the database on to the RNS510

This is the easiest bit. You will need to have started up the RNS before you copy the data (this can take a few moments) and it is suggested that you are not using the navigation or driving along!

Tip: if the RNS does not copy the data properly or it is not working, then you may need to reboot the system. The current firmware is beta and it often needs to be reset.



Please do not insert the SD card at this time, as you may need to remove an old POI database beforehand!

Once the system has started, select the SETUP menu:

Setue	
Radio	Map
Media	Navigation
Telephone	Traffic information
System	Voice control
Display	Video
Display	Video

	Setup Navigation		
	Suggest 3 alternation	ve routes	
MEDIA	Nav. announcements	▶ Off	
PHONE	Time display	Time of arrival	TRA
TONE	My points of interest		SET
W.	Define home address		
0			C

Now select "Navigation":

The menu "My points of interest" may be greyed out. If it is not, then you will need to remove the old POI database first.

Suggest 3 altern	ative couter
Nav. announcement	s D Off
Time display	Time of arriv
My points of interes	t
Define home addres	is and a second s

Select "My points of interest":

) 1	
	My points of interest	
ADIO	Import	
IEDIA	Details	TRAF
HONE	Delete	SETU
TONE		1-
1 souly		- 9
0		- (

Now select "Import". If you have "Delete" as an option, select it to clear the old data out.



Click "Import database" if all looks right:

mport database:	
mporting the points of inte	erest database into
ne system Varning:	
Removing the SD card duri destroy it.	ng this process may
	Netifi

Once the database has loaded (only a few seconds, depending on POI database size), you will then see a summary of what was loaded:



You can check the database by selecting "Details" from the POI menu:

TO ME SUBSIDIARIA CONTRACTOR
1



Now we can go to the MAP screen and select the "Extras" menu from the bottom:

Click on "POI selection" and you will see a list of the available POI categories. Our new category or categories will appear at the bottom of the list – so scroll down:

Select F	POI category	0
	CATEGORIES (ALPHABETICAL)	
	COMPANIES AND PUBLIC PLACES	
	EMERGENCY	
	SPEED CAMERAS	
		None

Select the main category (here "Speed Cameras") and then you can select / tick the categories you wish to have shown on the maps:



Once selected, click MAP again and you should now see the POIs!



If you want to check a POI, simply click it and you see a summary. If there is more than one POPI (such as one speed camera for North and one for South), then you will have a list to select from.

POI	5
NE-GATSO: 1428@40 Speed camera (fixed) UNITED KINGDOM NEWMARKET A1304, NEWMARKET 52°14'21.7"N 000°23'38.8"E	
Save	Start

Credits

None of this would have been possible without the help from a selection of people from a number of forums.

http://poinspect0r.blogspot.com/

http://www.golfgtiforum.co.uk/

http://gpsunderground.com/forum/gps-navigation-systems/car-gpssystems/volkswagen-seat-skoda/

http://vwnavi.com/forumdisplay.php/51-RNS-510-Navi-System

http://www.vwitalia.it/forum/f37/lista-firmware-rns-510-a-6383.html