



Enabling Industrial IoT



## SNYPER-LTE

Cellular Signal and Network  
Analyser

Quick Start Guide

Rev 1.3

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## Case Contents

Unpack the case contents to begin using your SNYPER-LTE signal strength tester.

- 1 SNYPER-LTE signal and network analyser
- 2 Multi region power supply
- 3 Blue antenna - General purpose LTE(4G), UMTS(3G) & GPRS(2G) coverage
- 4 Silver antenna - For LTE 2600MHz only
- 5 USB cable
- 6 In car charger
- 7 Hard carrying case
- 8 Quick start guide

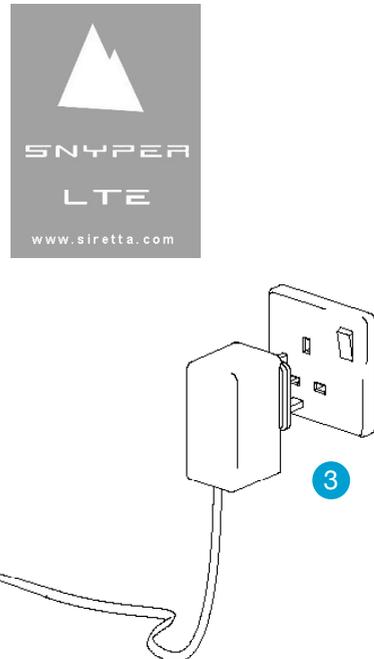


## Preparing the SNYPER-LTE

- 1 Select and attach the antenna required for the network you will be surveying (Blue antenna - 2/3/4G / Silver antenna - 2600MHz). Screw the antenna onto the SNYPER-LTE by turning clockwise until the antenna is firmly connected.
- 2 This device requires an active 4G enabled SIM when performing surveys on all LTE, UMTS and GSM networks. Insert SIM card as shown below.
- 3 The SNYPER-LTE needs to be charged using the mains adaptor for 6 - 8 hours before initial use.
- 4 Power on the SNYPER-LTE by pressing and holding the power button. See figure 3 for power on screen.



Figure 3. Power on screen

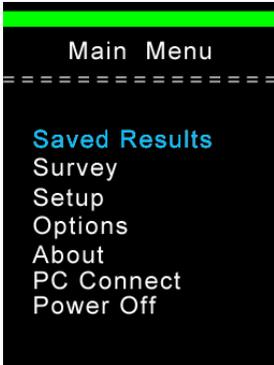


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## Main Menu

The main menu will be displayed when the SNYPER-LTE has successfully powered on. The main menu has 7 menus (as shown below in **figure 4**), these can be selected using the UP/DOWN buttons. Once the chosen menu is highlighted, click the OK button. Press the BACK button to return to the main menu.

Figure 4. 'Main Menu' screen



**Saved Results:** Reviews previously saved survey.

**Survey:** Used to perform a new survey.

**Setup:** Allows personalisation of language, display, sound, reports and auto-power off.

**Options:** Allows user personalisation of reporting detail and factory reset.

**About:** Displays information about the device - model number, firmware versions, battery voltage and IMEI number.

**PC Connect:** Connects device to a PC as a memory stick to allow download of reports.

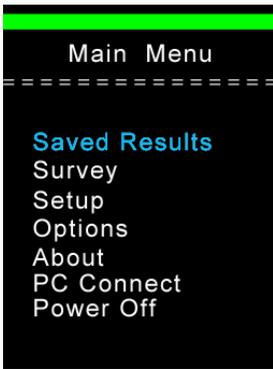
**Power Off:** Powers off the device.

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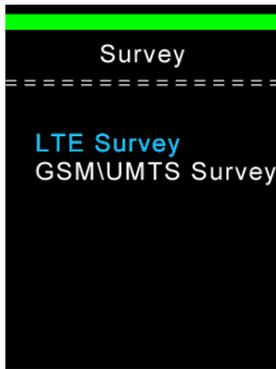
# Performing an LTE Survey

- 1 Use the menu buttons to select 'Survey', click the OK button.
- 2 Select 'LTE Survey', click the OK button.
- 3 Survey will begin performing

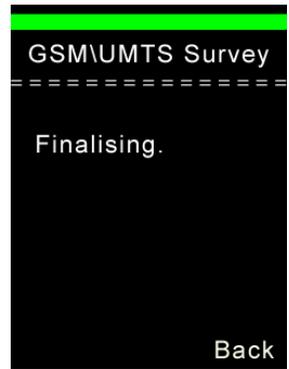
1 Figure 5. Select survey



2 Figure 6. Selecting LTE survey



3 Figure 7. Performing survey



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## View LTE Survey Results

After the LTE survey has finished performing, a summary of all LTE results will be displayed (as shown in figure 8). Using the menu buttons, select the network results you wish to view. Press OK (see figure 9 for network results).

Figure 8. 'Survey Menu' screen

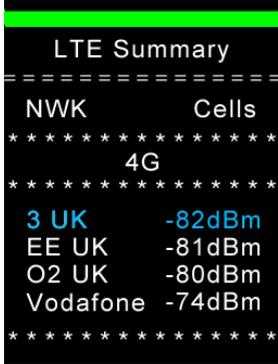
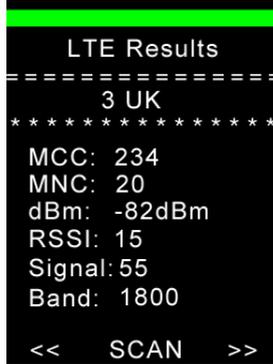


Figure 9. LTE results



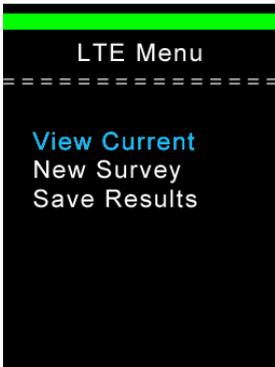
**NOTE:** See 'SNYPER-LTE Family - User Manual' if you require more information on interpreting survey results.

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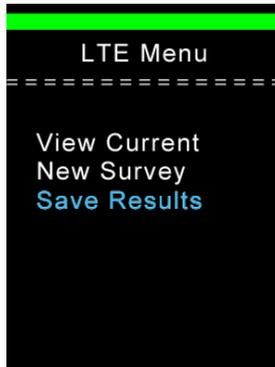
## Save LTE Survey Results

- 1 Press the back button until you return to the 'LTE Menu' screen.
- 2 Select 'Save', click the OK button.
- 3 Results will save.

1 Figure 10. Saving results



2 Figure 11. Selecting save option



3 Figure 12. LTE results being saved



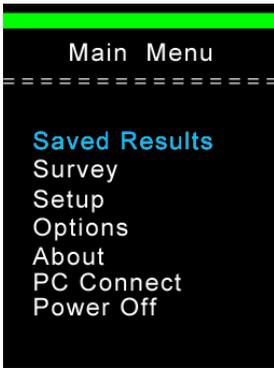
**NOTE:** The SNYPER-LTE can store 1 LTE survey.

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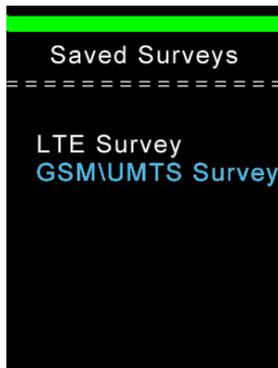
# Performing a GSM/UMTS Survey

- 1 Use the menu buttons to select 'Survey, click the OK button.
- 2 Select 'GSM/UMTS', click the OK button.
- 3 Survey will begin performing

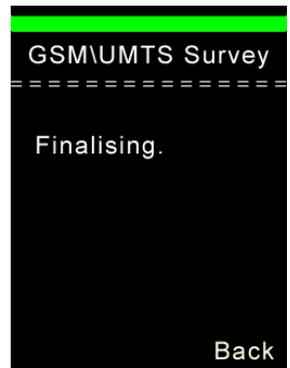
1 Figure 13. Select survey



2 Figure 14. Selecting GSM/UMTS survey



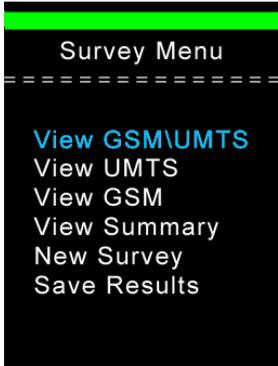
3 Figure 15. GSM\UMTS results being saved



# View GSM/UMTS Survey Results

After the survey has finished performing, the 'Survey Menu' will be displayed (as shown in figure 16). Use the menu buttons to select the results you wish to view. Press OK.

Figure 16. 'Survey Menu' screen



**GSM & UMTS:** Displays GSM & UMTS survey results.

**UMTS:** Displays UMTS survey results.

**GSM:** Displays GSM survey results.

**Summary:** Displays an overview of all networks and number of base stations for given signal strength.

**New Survey:** Performs a new network survey.

**Save:** Saves the results of the performed survey.

Figure 17. GSM results

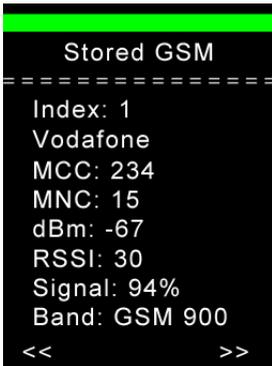


Figure 18. GSM/UMTS summary

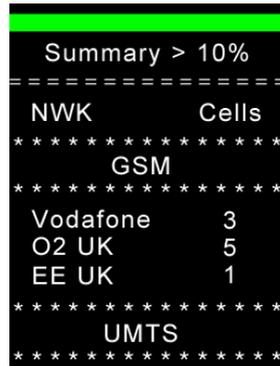


Figure 19. Saving data



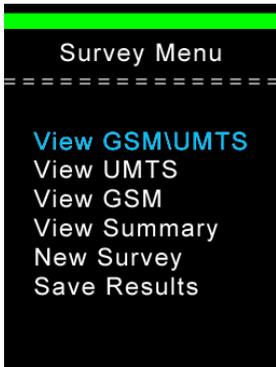
**NOTE:** See 'SNYPER-LTE Family - User Manual' if you require more information on interpreting survey results.

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## Save GSM/UMTS Survey Results

- 1 Press the back button until you return to the 'Survey Menu' screen.
- 2 Select 'Save', click the OK button.
- 3 Results will save.

1 Figure 20. Saving results



2 Figure 21. Selecting save option



3 Figure 22. GSM/UMTS results being saved



**NOTE:** The SNYPER-LTE can store 1 combined GSM & UMTS survey from any one location, network permitting.

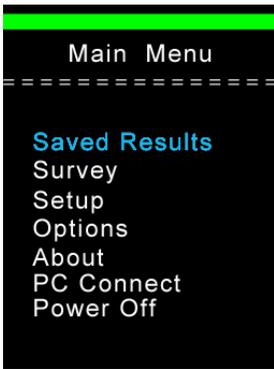
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# Viewing Saved Results

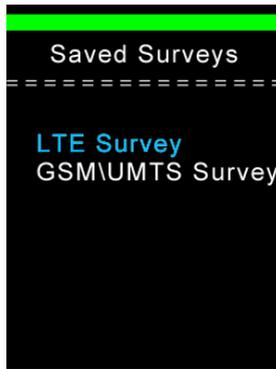
## LTE Results

- 1 Use the menu buttons to select 'Saved Results', click the OK button.
- 2 Select 'LTE Survey' or 'GSM/UMTS Survey', click the OK button.

1 Figure 23. Selecting saved results



2 Figure 24. Select results you wish to view



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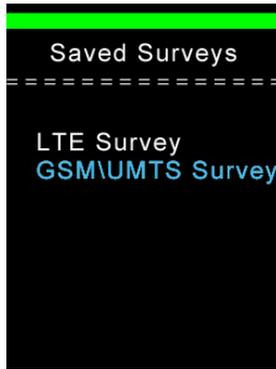
## GSM/UMTS Results

- 1 Use the menu buttons to select 'Saved Results', click the OK button.
- 2 Select 'LTE Survey' or 'GSM/UMTS Survey', click the OK button.
- 3 Use the menu buttons to select the saved results you wish to view, click 'View'.

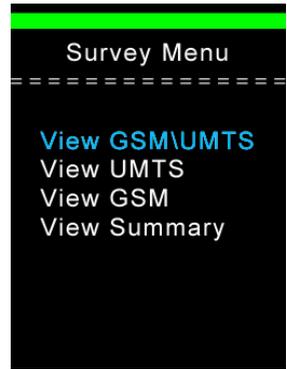
1 Figure 25. Selecting saved results



2 Figure 26. Select results you wish to view



3 Figure 27. Select saved results to view



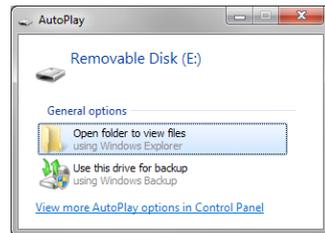
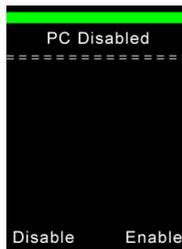
# Downloading Saved Data

- 1 Connect supplied USB cable to the SNYPER-LTE and PC.
- 2 From the SNYPER-LTE 'Main Menu' select 'PC Connect' and 'Enable'. From the PC select 'Open Folder to View Files' and open saved files (copy files to hard drive as required).

Figure 28. Connecting USB cable



2 Figure 29. Downloading results



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**SNYPER Network Survey Results**

**LTE (4G) Survey Results**

Survey	EARFCN	RSLEV	Power	RSSI	MCC	MNC	CIK	CELLO	TAC	BAND	NETNAME
1	1807	-75	00	15	234	20	128	00001F	10771	20	3G-LTE
2	6300	-79	00	17	234	10	04	00004F	24010	20	3G-LTE
3	6173	-80	00	18	234	20	128	00001F	10968	20	3G-LTE
	5400	-85	49	13	234	10	128	00004F	10440	20	3G-LTE

HTML graphical results display in your browser.

USB cable



PC

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## Powering Off the SNYPER-LTE

After use, remember to power off the SNYPER-LTE. This can be done by:

- » Select the 'Power Off' option from the main menu. The SNYPER-LTE will display a power off message.
- » Press and hold the ON/OFF button on the SNYPER-LTE for >2 seconds. The SNYPER-LTE will display a power off message.



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