



Inspired Wireless M2M Technology



## SNYPER-LTE Spectrum

Cellular Signal and Network  
Analyser with liveSCAN

### Quick Start Guide

Rev 1.1



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# Case Contents

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

- 1 SNYPER-LTE Spectrum 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 liveSCAN antenna
- 6 Cable
- 7 USB cable
- 8 In car charger
- 9 Hard carrying case
- 10 Quick start guide

Figure 1. SNYPER-LTE Spectrum case contents

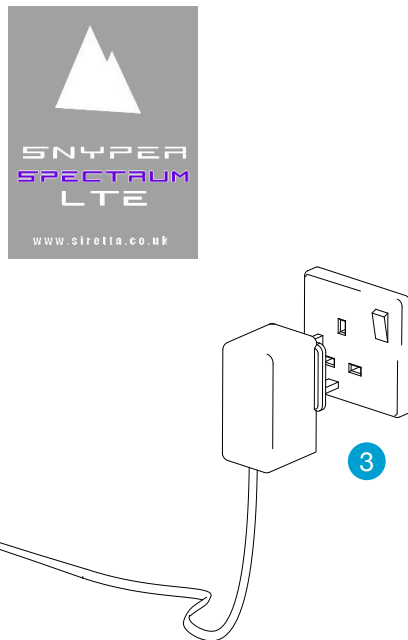


# Preparing the SNYPER-LTE Spectrum (Non liveSCAN Mode)

- 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 Spectrum 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 show below.
- 3 The SNYPER-LTE Spectrum needs to be charged using the mains adaptor for 6 - 8 hours before initial use.
- 4 Power on the SNYPER-LTE Spectrum by pressing and holding the power button. See figure 3 for power on screen.



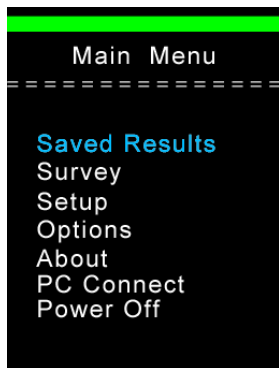
Figure 3. Power on screen



# Main Menu

The main menu will be displayed when the SNYPER-LTE Spectrum 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

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

## Survey

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

## Setup

**Setup:** Basic setups of the SNYPER-LTE Spectrum. (Brightness / Auto Off / Delay / CRG Rate / Text / HTML)

## Options

**Options:** User options for the SNYPER-LTE Spectrum. (Standard / Factory Reset)

## About

**About:** Displays information about the SNYPER-LTE Spectrum. (Version / Settings)

## PC Connect

**PC Connect:** Download of data to PC.

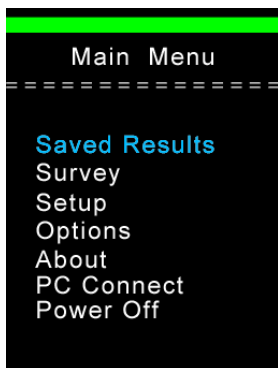
## Power Off

**Power Off:** Powers off the SNYPER-LTE Spectrum.

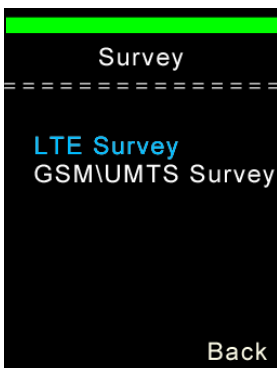
# Performing an LTE Survey

- 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

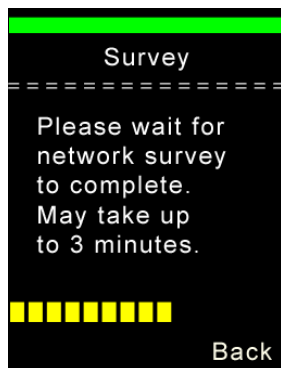
1 Figure 5. Select survey



2 Figure 6. Selecting LTE survey



3 Figure 7. Performing survey



## 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

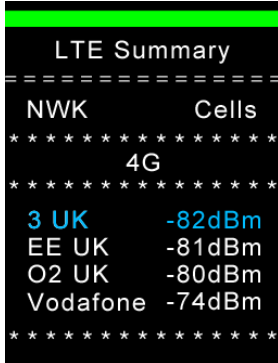
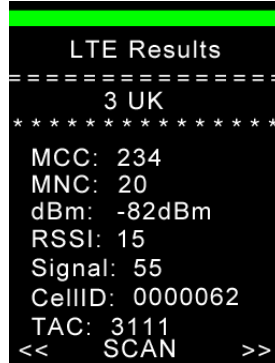


Figure 9. LTE results



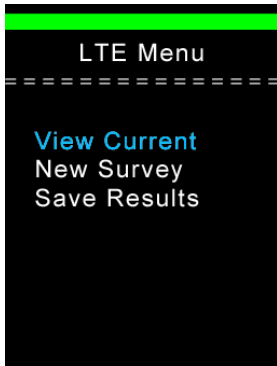
**NOTE:** See 'SNYPER-LTE Spectrum - User Manual' if you require more information on interpreting survey results.

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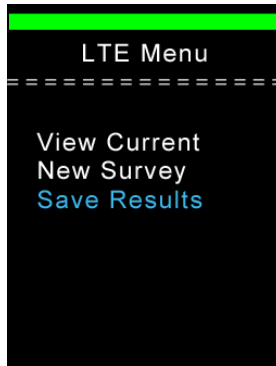
## Save LTE Survey Results

- 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

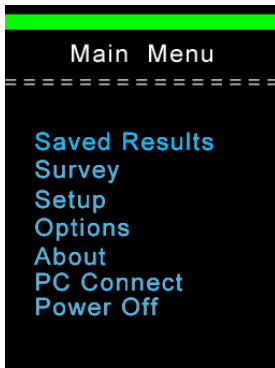




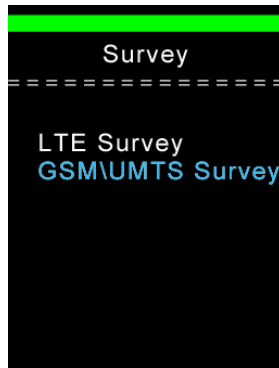
# Performing a GSM/UMTS Survey

- 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

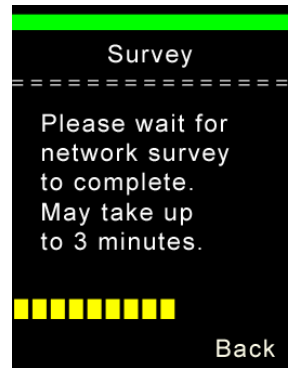
1 Figure 13. Select survey



2 Figure 14. Selecting GSM/UMTS survey



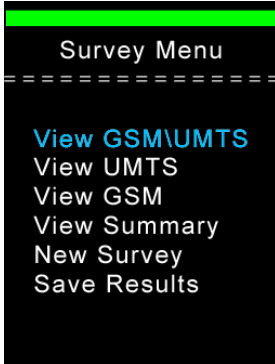
3 Figure 15. GSM\UMTS results being saved



## 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



### View GSM\UMTS

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

### View UMTS

**UMTS:** Displays UMTS survey results (see figure 17).

### View GSM

**GSM:** Displays GSM survey results (see figure 18).

### View Summary

**Summary:** Displays an overview of all networks and number of base stations for given signal strength (see figure 19).

### New Survey

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

### Save Results

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

Figure 17. UMTS results

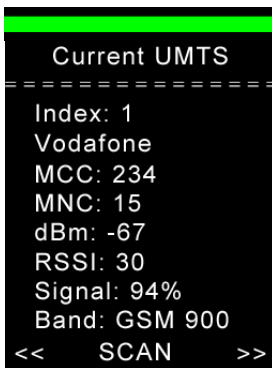


Figure 18. GSM results

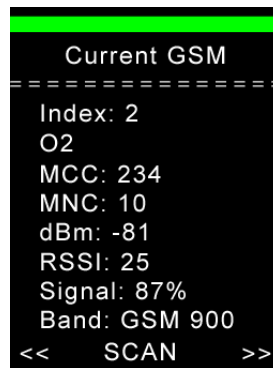
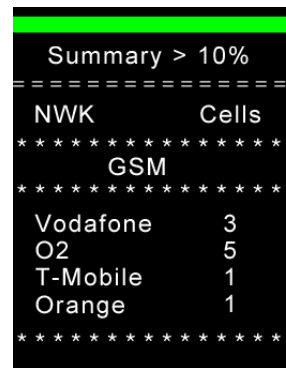


Figure 19. Summary



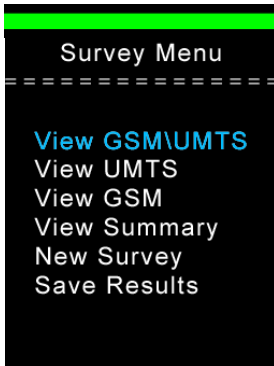
**NOTE:** See 'SNYPER-LTE Spectrum - User Manual' if you require more information on interpreting survey results.

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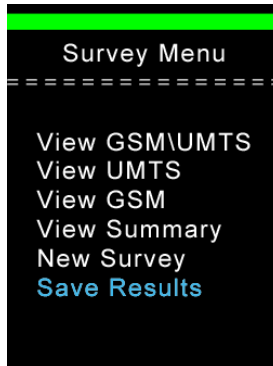
## Save GSM/UMTS Survey Results

- 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



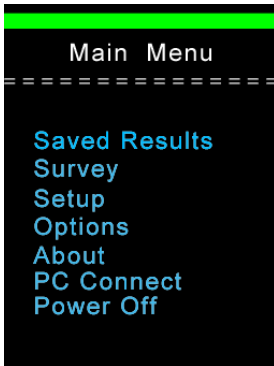
3 Figure 22. GSM/UMTS results being saved



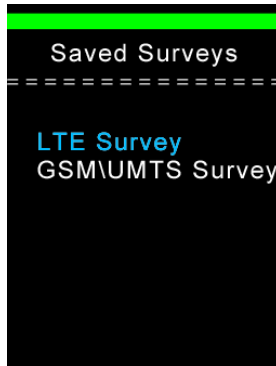
# Viewing Saved Results

- 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 23. Selecting saved results



2 Figure 24. Select results you wish to view



3 Figure 25. Select saved results to view



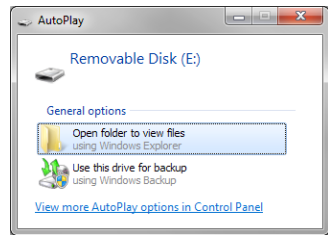
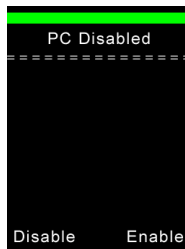
# Downloading Saved Data

- 1 Connect supplied USB cable to the SNYPER-LTE Spectrum and PC.
- 2 From the SNYPER-LTE Spectrum '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 26. Connecting USB cable



2 Figure 27. Downloading results



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**SNYPER Network Survey Results**

**LTE (4G) Survey Results**

Survey	EARFCN	RXLEV	Percent	RSS	MCC	MNC	DEK	CELLID	TSC	BAND	NETNAME
1	1655	-75	62	13	234	35	128	00001NF	10771	3	3.5% 0.0%
2	6205	-79	00	17	234	35	94	00001NF	24701	20	11.0% 0.0%
3	6175	-80	58	16	234	20	128	00001NF	5098	20	11.0% 0.0%
4	6400	-80	49	13	234	35	128	00001NF	5548	20	11.0% 0.0%

HTML graphical results display in your browser.

USB cable

# Performing a liveSCAN

The liveSCAN operation with the SNYPER-LTE Spectrum has two uses:

- 1: Locating the direction of a specific cell using a directional antenna
- 2: Locating the presence of strongest available signal in a survey result

- 1 Connect the supplied liveSCAN antenna to the SNYPER-LTE Spectrum.

Figure 28. Connecting liveSCAN antenna



# Performing an LTE liveSCAN

- 1 Perform a survey as shown in 'Performing an LTE Survey' (page 6). From the LTE summary screen, select the desired network you would like to liveSCAN, press the OK button. Press OK again to begin liveSCAN.

Figure 29. LTE summary

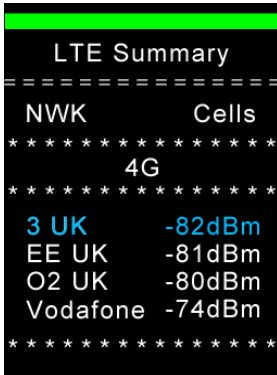


Figure 30. Begin liveSCAN

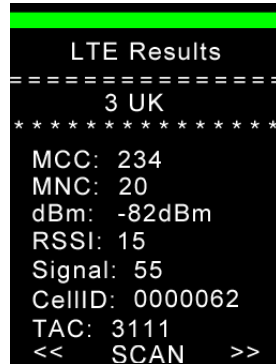
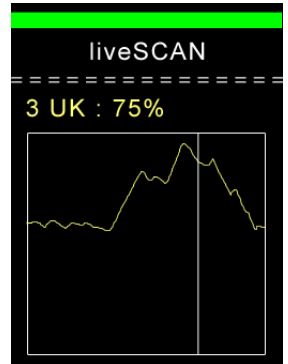


Figure 31. liveSCAN in function



## Performing a GSM/UMTS liveSCAN

- 1 Perform a survey as shown in 'Performing a GSM/UMTS Survey' (page 9). From the 'Survey Menu' use the menu buttons to select whether you want to view GSM or UMTS results, press the OK button. Use the LEFT/RIGHT buttons to select the desired network you wish to liveSCAN, press the OK button to begin liveSCAN.

Figure 32. Survey menu

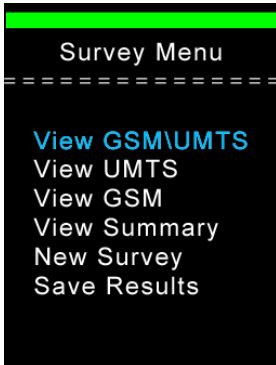


Figure 33. Begin liveSCAN

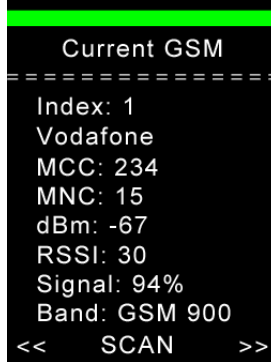
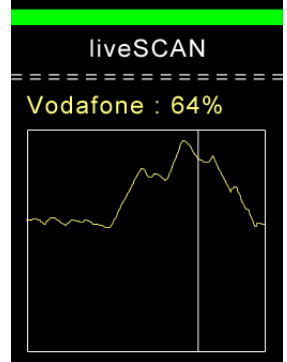


Figure 34. liveSCAN in function



**To stop performing a liveSCAN, press and hold the BACK button to return to the previous menu.**

## Powering off the SNYPER-LTE Spectrum

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

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

## Further Information

Full user guide for the SNYPER-LTE Spectrum can be downloaded from the Siretta website.

[www.siretta.co.uk/snyper-lte](http://www.siretta.co.uk/snyper-lte)



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