

SAPPHIRE

GPS Speed Camera Detection System



USER MANUAL

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Introduction

Congratulations on purchasing a Snooper Safety Alert System!

The Snooper Sapphire utilises Global Positioning Satellite (GPS) technology and has been designed to help you drive safely within the confines of today's speed limits by alerting you quickly, and easily to the presence of fixed speed monitoring systems, often located at accident black spots. The geographical coordinates of all 'fixed' speed monitoring systems and many officially designated accident 'hotspots' have been stored on a database provided by Enigma™. The database is constantly monitored and updated by the Enigma™ data collection team, ensuring that you are alerted to all fixed speed safety cameras and every potentially hazardous stretch of road.

As the Enigma™ camera database is constantly updated, regular downloads to your Sapphire are required. The Sapphire connects quickly and easily to your PC so that you can download the database in a matter of minutes (internet connection required). Please note that a certain level of system hardware and software are required on your PC; see the section Software CD later in this manual. Once the database has been downloaded your Sapphire compares your position using its GPS antenna, with the position of every known 'fixed' speed monitoring system and accident 'hotspot' alerting you both audibly and visually via a speaker and a full colour LCD display ensuring your highest concentration at all times.

Please note that Enigma™ updates are subject to a subscription charge. Please refer to the subscription and download section of this manual for further details or visit www.snooperneo.co.uk.

Drive Safely with Snooper!

The Snooper Sapphire has been designed and manufactured to help enhance road safety and is in no way a licence to speed nor has it been designed as a substitute for concentration. Driving within the speed limit, whilst carefully observing current road conditions is essential.



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Components

The following components are supplied with your Snooper Sapphire: -

- 1 x Snooper Sapphire GPS system
- 1 x Windscreen suction cup bracket
- 1 x 2m Coiled Power Lead with cigarette lighter socket adaptor
- 1 x 2m Straight hard wire lead
- 1 x USB PC connecting cable
- 1 x Download Software Disc, including registration form and user manual

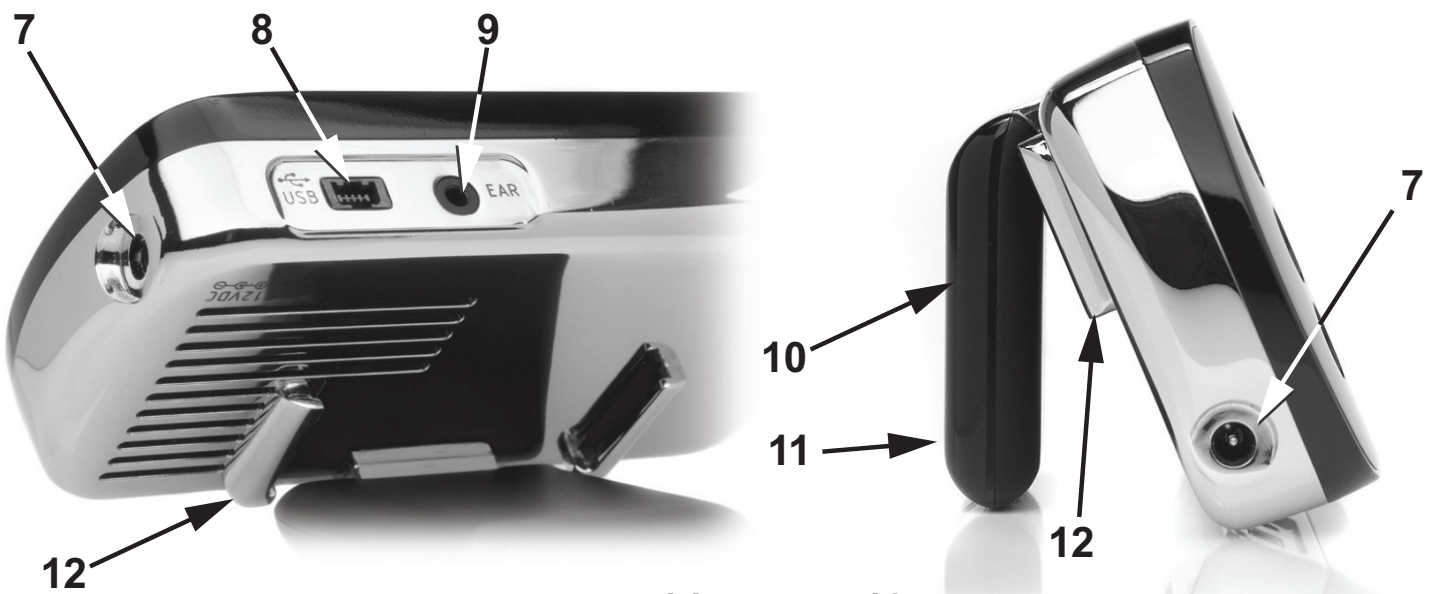
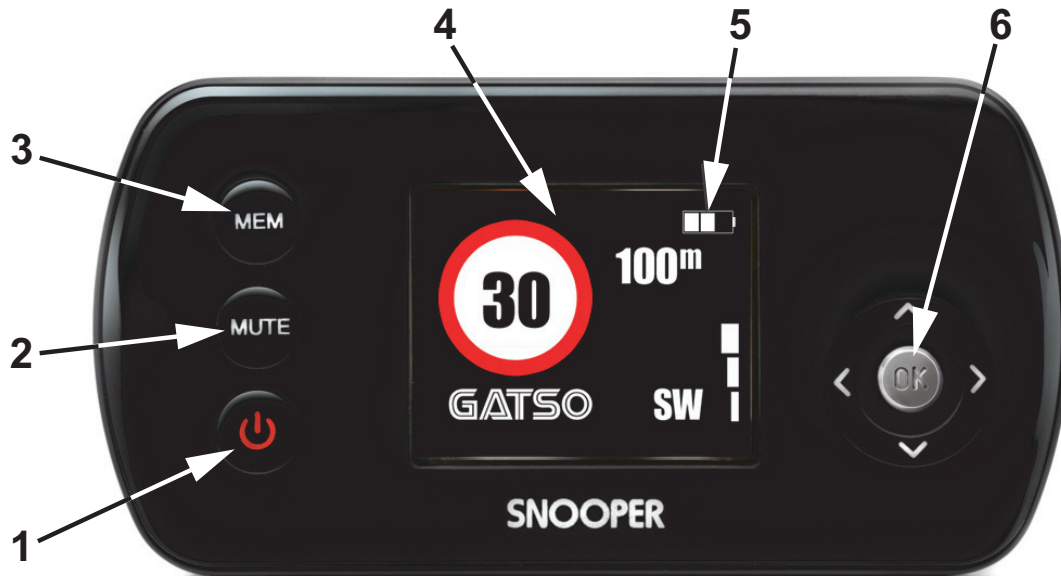


PLEASE NOTE

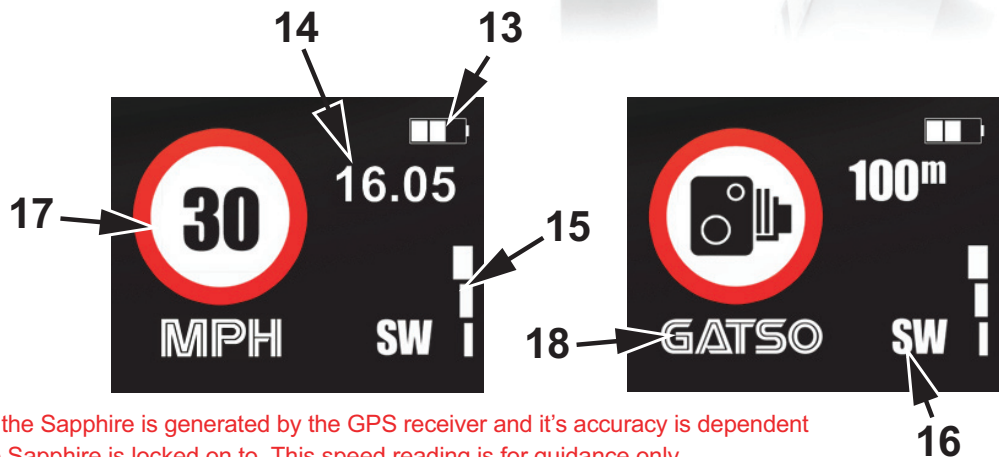
Due to our desire to continually improve our products the specification may change without notice.

Features

- | | |
|---|---|
| 1 Standby/Power switch | 7 12V Power Input Socket |
| 2 MUTE Button – Temporarily mute an alert | 8 USB Computer Interface Socket |
| 3 MEM Button – Saves your own co-ordinates | 9 Earphone Socket (Earphone not inc) |
| 4 Full Colour Graphical Display | 10 GPS Flip Out Antenna |
| 5 Battery/Power Indicator | 11 GPS External Antenna Socket (Antenna not included) |
| 6 OK/Menu Navigation Control – Use to change settings | 12 Windscreen Bracket Mounting Slot |



- 13 Battery Charge Indicator
- 14 Time display
- 15 GPS Signal Strength
- 16 Compass Direction
- 17 Speed or Speed Limit*
- 18 Camera Type



* The speed reading displayed on the Sapphire is generated by the GPS receiver and it's accuracy is dependent upon the number of satellites the Sapphire is locked on to. This speed reading is for guidance only.

Registering your Snooper Sapphire

IMPORTANT!
PLEASE READ BEFORE USING YOUR SNOOPER SAPPHIRE

The Sapphire is not pre populated with the Enigma database, at the time of purchase for security reasons. Before attempting to download the Enigma database onto the Sapphire the unit must be registered.

There are several ways to register your unit:

Register Online

Go to the official Snooper website www.snooperneo.co.uk and register your unit online. Your unit should normally be activated within 30 minutes of registration.

By Fax

Print and complete the registration form, which can be found on the CD ROM and fax it to 0870 787 1700 between the hours of 9:00am and 5:30pm Monday to Friday. Your unit should normally be activated within one hour.

By Post

If you would like to register by post send the completed registration form to us at the following address.

**Performance Products Limited,
Cleaver House, Sarus Court, Manor Park, Cheshire WA7 1UL.**

If you register by post your unit should normally be activated within 24 hours upon our receipt of your completed registration form.

Please Note: To register your Sapphire you will need the serial number of your unit and you are required to select a payment method at the time of registration.

There are two payment options available:

Monthly by Direct Debit - Receive 6 Months FREE, then pay only £4.95 a month

Pay only £4.95 inc VAT in easy to manage monthly payments. Direct Debit payments only start after the initial FREE 6 month period has expired.

One up-front payment of just £99.95 for 30 Months of Downloads

Pay one payment of just £99.95 Inc VAT, by credit card, debit card or cheque and save £20!

PLEASE NOTE

Due to our desire to continually improve our products the specification may change without notice.

Software CD

Before you can begin downloading the database onto your Snooper Sapphire you will need to install the driver software for the USB PC connection lead first and then the Sapphire Updater software that enables you to do this.

There is a certain minimum amount of hardware and software requirements needed in order for the software to be installed and used successfully.

Hardware Requirements

The computer must have an Intel Pentium Class processor or equivalent, a minimum of 32MB of RAM, a monitor with 256 (8 bit) colours or greater, a CD ROM drive, 20MB of free disc space and a spare USB connection.

Software Requirements

The software will only operate on the following Windows based operating systems

Windows 2000

Windows XP

and will only work with Internet Explorer 4.5 or Netscape Navigator 4.5 or above.

NOTE: The Snooper Sapphire Updater software does not support Windows 95/98/98SE, Millennium and Apple Macintosh operating systems.

Software Installation Instructions

Place the Software CD into the CD ROM drive. Your PC should automatically open a window displaying the instructions for installing the USB and download software.

To launch the CD manually: Click on Start and then Run. In the dialogue box that opens click on Browse – another dialogue box will open. Locate your CD ROM drive (drive letter is normally D) using the 'Look in' option and select 'Menu' from the lower portion of the dialogue box. Once you have selected 'Menu' click on Open on the explorer box and then OK on the Run dialogue box.


Follow the instructions carefully installing the USB driver first and then installing the Sapphire download software.

Any later software updates that are released can be obtained from www.snooperneo.co.uk

Once the software is installed you are ready to download the database to your Sapphire. An icon for the 'Sapphire Updater' will now appear on your desktop. Double left click this icon to open the program and follow the onscreen instructions.

Downloading

Performing a download is simple.

1. Switch on your PC.
2. Connect the computer to the Internet.
3. Double left click the Sapphire Updater icon  to open the program.
4. Left click 'Menu' and then 'Download Settings' and select the database files you require. Once selected click 'OK'.
5. Switch on the Sapphire by pressing and holding the Standby/Power switch for two seconds.
6. Connect the USB lead to your computer and plug the other end of the lead into your Sapphire in the socket marked USB.
7. The software will start the download process automatically.

The download process is as follows:

- The software will display the serial number of your Sapphire and a green progress bar will start to progress across the screen.
- The software will then connect to the database server and then download** the database.
- The Sapphire will then save the data received.
- Once the download is complete the Sapphire software will instruct you to disconnect the unit from the PC.

** If you have a Firewall on your computer the Firewall software will inform you that the Sapphire Updater software is trying to access the internet.

Please make sure that you grant/allow/permit/unblock access through the Firewall.

If you do not allow the program to access the internet through the Firewall, the download process will fail. Please note: Windows XP SP2 comes with a built-in firewall as standard.

As the Enigma™ database is constantly updated and maintained you will need to perform regular downloads. The frequency with which you do this is entirely up to you, but we recommend that higher mileage drivers often driving on unfamiliar roads download once or twice a week whereas lower mileage drivers perform a download once or twice per month.

Please Note: You MUST register the unit first before you can perform a download.

IMPORTANT: The Sapphire may restart if it is exposed to static electricity, please do not touch the USB socket on the underside of the unit.

Installing the Sapphire

The Sapphire comes with a windscreen suction cup bracket so that the unit can be mounted onto your vehicles windscreen.

When installing your Sapphire please ensure that:

- The unit, with the GPS antenna raised, has a clear view of the sky*
- It is located in a position where you can easily view the full colour LCD display without having to take your eyes too far from the road ahead and that you can reach the controls safely.
- Does not interfere with the vehicles controls
- Does not jeopardise the drivers or passengers safety
- You will be able to remove the device to perform downloads.

* Please Note: Some vehicles may come with a 'Heat Reflective', 'Metal Oxide', 'Athermic' or 'Comfort' windscreen which may affect the performance of the built in GPS antenna. If you are unsure what type of windscreen is fitted to your vehicle then contact your local vehicle dealer or manufacturer for further information. In these situations you will need to purchase an extension GPS antenna, which can be positioned either on the rear parcel shelf or outside the cabin of the vehicle. Call 0870 787 0700 and select Option 2 for further details.



When adjusting the angle of the windscreen bracket please remove the Sapphire from the bracket FIRST before adjusting.

PLEASE NOTE: Be careful to choose a location that does not obscure the drivers view or where it might endanger the driver or passengers should your vehicle suddenly come to a stop or be involved in an accident.

DO NOT leave the unit in view when the car is unattended during hot conditions. Exposing the Sapphire to extremely high temperatures can temporarily impair performance. Keep the Sapphire out of sight when not in use to help avoid potential theft.

Installing your Sapphire using the Windscreen Suction Cup bracket

You can mount your Sapphire to the inside of your vehicles windscreen using the suction cup windscreen bracket provided. Simply select a position within the windscreen so that the top of the unit has a clear view of the sky, remembering that you may need to connect the power connection cable as well as ensuring that you can read the TFT LCD display and reach the controls safely. Follow these instructions to mount the unit in this way.

- Clean the area where you wish to position the bracket thoroughly with a good quality glass cleaner
- Adjust the angle of the bracket so that when the unit is attached to it you can view the display and operate the controls safely. Do not adjust the angle of the bracket when the Sapphire is attached.
- Press the suction cup against the windscreen and push the lever towards the windscreen to secure in place. To make a more secure adhesion pull the lever towards you whilst still pressing the suction cup against the windscreen and push back towards the windscreen a second time.
- Slide the Sapphire onto the bracket, ensuring that the GPS antenna is raised and the recess on the plate is at the top.
- To remove the Sapphire from the windscreen bracket, simply slide the unit upwards off the plate.



- The unit can be powered directly from its internal battery if it's charged or powered from the cigarette lighter socket. To use the cigarette lighter socket, plug the smaller plug on one end of the power cable into the socket marked 12V DC on the left side of the Sapphire and plug the larger plug into the cigarette lighter socket of your vehicle. Your Sapphire is now ready for use.

Please note that no power cable other than the one provided with the Sapphire should be used. The Sapphire operates on 12V DC and the power cable included is specifically designed to provide this voltage and to charge the internal battery. Using an alternative power cable will damage the unit and void the warranty.

Power Connection & Charging

Powering and charging your Sapphire from the cigarette lighter socket

The Sapphire comes with a power cable designed to plug into your vehicles cigarette lighter socket. This lead will power the device but will also charge the Sapphire's internal battery. Firstly take the lead and plug the smaller end into the 12V DC input socket on the bottom left hand side of the Sapphire and plug the cigarette lighter adaptor into your vehicles cigarette lighter socket. Press and hold the standby power button on the left hand side of the units' fascia for two seconds to switch on the device.



Plug the smaller end into the 12V DC input socket

Plug the cigarette lighter adaptor into your vehicles cigarette lighter socket



Please Note: Do not leave your Sapphire plugged into the cigarette lighter socket when you start your vehicle. The cigarette lighter socket is prone to power surges as the vehicle is started and this may cause damage to your unit.

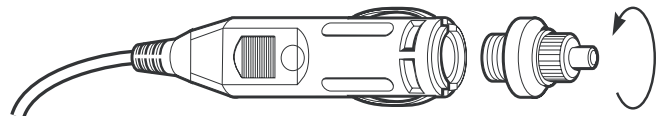
If the device does not power up please check that the cigarette lighter socket is clean of any debris, remembering not to insert metal objects into the socket. Check that the cigarette lighter adaptor is inserted all the way into the socket and check that the fuse in the cigarette lighter adaptor is operational. If your Sapphire will still not power up, please check that the cigarette lighter in your vehicle is functioning correctly.

Replacing the Fuse

If the Sapphire does not switch on or the battery does not charge, the fuse in the cigarette lighter plug may have blown. To ascertain if the fuse has blown, follow the steps below and if necessary replace it with a 2 amp, 5 x 20mm fast acting fuse.

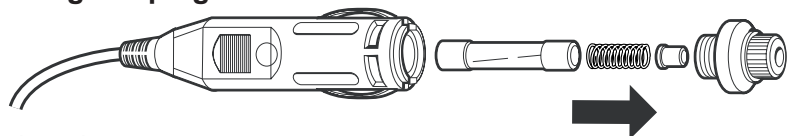
Caution: Using a fuse that does not meet these ratings or defeating fuse protection can damage your unit, the power cable, or the vehicles electrical system.

1. Grasp the ring near the tip of the cigarette lighter plug, and then carefully unscrew the ring by turning it counter clockwise.

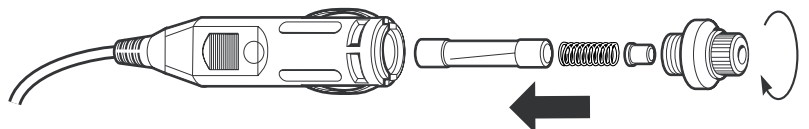


Caution: If you must use pliers to loosen the ring, be careful not to crush the tip. Never use pliers or other tools to retighten the ring on the cigarette lighter plug.

2. Pull the ring straight out, then remove the metal tip and old fuse.
3. Check the fuse to see if it has blown. If it has, replace it.



4. Replace the metal tip inside the ring, then place the fuse inside the cigarette lighter plug and screw the ring back onto the plug. Make sure the metal tip is visible when you reassemble the cigarette lighter plug.



Charging the internal battery

The Sapphire can be charged using either the cigarette lighter adaptor in your vehicle or via the USB cable through your PC. If the unit is turned on the battery charge icon will be animated.

Once fully charged the battery will last approximately 3 hrs during normal use.

Note: The new battery's full performance is only achieved after two or three complete charges and discharges.

Direct connecting/hard wiring your Sapphire

You can power your Sapphire by wiring it directly to your vehicles 12V electrical system using the 'Hard Wire' cable which is supplied as standard with your unit. First connect the positive side of the cable (marked with a red plus symbol) to a 12V switched live. This is a live that is ON when the ignition is ON and OFF when the ignition is OFF. The negative side of the lead should be connected to a negative ground, so it can be attached to any metal portion of the vehicles frame. Next plug the small adaptor on the other end of the lead into the 12V DC input socket on the left side of the unit.

Important: If you are unfamiliar with this procedure, please consult a professional auto electrician.

Operating Instructions

1. Using the Sapphire for the first time

After you have performed a download and installed your Sapphire into your vehicle it is time to perform the first start up. First make sure your vehicle is parked in as open a space as possible, clear of tall trees and buildings so that the flip up GPS antenna has as clear a view of the sky above. Next switch the unit on by pressing the Standby Power button for two seconds. The LCD graphical display will briefly display the 'Snooper' logo, Logic # (see Section 7), Mway, City or All (see Section 9) and finally 'Searching for Satellites' will flash on the screen as the unit begins to search for satellite connection.

The Sapphire needs to acquire a minimum of four satellites in order to work. Once this has been achieved the Sapphire will proceed to the Standby screen of your choice (See Standby Screen below). As soon as the standby screen is displayed your Sapphire is ready to use and will now automatically alert you of any locations stored in its database. A variety of audible and visual alert patterns are available. See 'Features and Settings' later in this user manual for more detailed information.

As the GPS engine and antenna have never been used before, the first 'Cold' start could take anywhere from 15 – 50 minutes to establish a satellite connection. Once initialised, subsequent start ups will take less time and eventually should take only a matter of minutes.

Please Note: If the unit is not used for some time the initial GPS start up may take longer than when the unit is used regularly.

2. Standby Screen

There are eleven different screen colour settings for the standby display. To change the screen colour:

- Press the 'OK' control to enter the menu – the 'Set Alert Range' menu option will be displayed.
- Push the 'OK' control upwards until 'Change Screen Colour' is displayed and then press the 'OK' control.
- Move the 'OK' control left or right to scroll through the screen colour options. When your preferred setting is displayed, press the 'OK' control again. The unit will confirm the new setting has been stored.

If you would like to exit the Menu at any time press either the 'MEM' or the 'MUTE' button. If no buttons are pressed for a period of five seconds the unit will automatically exit the Menu and return to your chosen standby display.



3. Adjusting the Volume

The Snooper Sapphire has an adjustable volume for controlling the loudness of the audible alert.

To increase the volume push the 'OK' control on the right hand side of the unit upwards.

To decrease the volume of the unit push the 'OK' control downwards.



4. MEM Button

If in the unlikely event that you pass a location of a fixed safety camera and your Snooper Sapphire does not provide you with an alert, you have the opportunity to store the coordinates of this location manually. Simply park safely as close as possible to the fixed safety camera site and press and hold the 'MEM' button for approximately two seconds.

A screen will be displayed asking if you want to 'Save User Position?' Use the 'OK' control to highlight 'Yes' and then press the 'OK' control to confirm.

When you next pass the fixed safety camera site again your Snooper Sapphire will now alert you to the new location. User points can be edited so that the correct alert for that camera location is given.

As the unit does not know what type of system you are passing until the user point is edited the unit will alert to the coordinate as a high risk zone (See 'User Points' on page 17). Your unit can hold up to 99 coordinates in its memory.



5. MUTE Button

If during an alert you decide that you would like to mute the audible alert, but still retain a visual alert simply press the MUTE button. The screen will continue to display a visual alert but no audible alert will be produced. After you have travelled out of range of that location the unit will automatically reset so that the next time you encounter a fixed speed camera location you will receive both an audible and a visual alert as normal.

6. Cancelling an Alert

If during an alert you decide that you would like to cancel it simply press and hold either the MEM or MUTE buttons. The display will confirm that the alert has been cancelled and will return to the standby screen.

7. Logic Modes

There are three Logic modes that you can select on your Snooper Sapphire. These different Logic settings determine how the Sapphire alerts you to fixed speed safety cameras.

Logic 1

When in Logic 1 your unit will alert you both audibly and visually to fixed safety cameras on both sides of the carriageway as you approach them.

Logic 2 (Factory Default Setting)

When Logic 2 is selected your unit will alert you both audibly and visually as you approach fixed safety cameras on your side of the carriageway only.

Logic 3

When Logic 3 is selected your unit will alert you to fixed safety cameras on both sides of the carriageway but will alert you audibly in different tones depending on your user settings. If, for example, you select the 'Hard' tone for alerting you to fixed safety cameras then you will be alerted to a camera on your side of the road in a 'Hard' tone but if the camera is on the opposite side of the road the audible alert provided will be in the 'Soft' tone and vice versa.

To change the Logic Mode of your unit please refer to the 'Logic' section on page 18.

8. Alert Patterns

Fixed Speed Safety Cameras

As you approach a fixed speed safety camera the unit will begin to emit either a voice alert or your chosen audible alert at your preset alert distance. As you approach the fixed speed safety camera the 'beeping' will quicken. At the same time the display will indicate the type of location you are approaching, the speed limit at that location and will then begin to count down the distance in 50 metre increments to that location. The unit will continue to alert you until you have passed the fixed speed safety camera.

Automute

When your device alerts you to a location, rather than continually beeping through the alert, it simply beeps at your selected volume for five seconds and then automatically mutes the sound to volume level 3 until you have passed or moved out of range of the fixed speed safety camera. This allows you to receive a brief audible alert instead of a continuous one.

Note: This function is built into the unit and cannot be switched on or off.

If you would like to change the alert to a visual alert only press the MUTE button to temporarily turn off the sound. If at any time you would like to stop the alert, simply press and hold either the MEM or MUTE buttons.

9. Road Type

CITY

In 'CITY' mode the Sapphire will only provide alerts to fixed speed safety cameras that are located on 'A' or 'B' classified roads and are in range of your unit.

MOTORWAY

In Motorway mode (displayed as M-way) the Sapphire will only provide alerts for fixed speed safety cameras located on a motorway road and are within range of your device.

Note: If your speed drops below 20mph the device will sound an audible alert and the 'Select Road Type' screen will be displayed to remind you that you may no longer be travelling on a motorway and may need to change the mode of the unit to 'CITY' or 'ALL'.



ALL

In 'ALL' mode the Sapphire will provide alerts on all road types of any fixed speed safety cameras that are within range of the unit. Note: If you were travelling on a section of motorway for example it would mean that the unit could detect locations situated on an 'A' or 'B' road that is near to the motorway. As it is not on the road you are travelling though, it is not a threat and you might prefer to select the 'M-way' setting so that the unit would ignore these unwanted alerts.

PLEASE NOTE: Whilst in CITY mode the device will not detect any locations located on a motorway. When the unit is in MWAY mode the unit will not detect any locations located on 'A' or 'B' roads so you need to remember to change modes when leaving an 'M' type road.

Features and Settings

Your Snooper Sapphire has many different features and settings that you can adjust very easily.

To get into the Menu of the user options press the 'OK' control on the right hand side of the unit. Use the 'OK' control to scroll through the options by pushing the control upwards or downwards and then select your desired menu item by pressing the 'OK' control.

Please Note: If you would like to exit the Menu at any time press either the 'MEM' or the 'MUTE' buttons. If you do not press any buttons for a period of five seconds the unit will automatically exit the Menu and return to the Standby display.

The following menu options are available on your unit. Press the 'OK' control once your desired option is displayed.

1. Set Alert Range

This feature allows you to adjust the distance that your Snooper Sapphire will detect from when approaching a Fixed Speed Safety Camera location. You can set your pre-alert distance in 50 metre increments from 100m to a maximum of 1000m or alternatively you can select a new feature - 'Auto Range'.

Auto-range simply selects the correct alert distance to each camera detected depending on the speed limit of the road the camera is situated on. The different alert distances are shown below.

Detection distances for Fixed Speed Safety Cameras and High Risk Zones

Speed Limit	Pre-Alert
20mph	250m
30mph	300m
40mph	350m
50mph	400m
60mph	700m
70mph	700m

Selecting Your Preferred Detection Distance

To adjust the pre-alert distance:

- Press the 'OK' control when 'Set Alert Range' is displayed in the menu options
- There are two options: 'Auto' and 'User'. Auto range is activated by default so if you wish to select your own pre alert distance highlight the 'User' option using the OK control and then press the 'OK' control.
- To increase the pre alert distance, push the 'OK' control upwards. To decrease the distance push the 'OK' control downwards. Once you have selected your preferred distance press the 'OK' control. The unit will display 'Setting Confirmed'.



2. Set Volume

You can set the volume level of your unit by selecting this option.

To change the volume setting:

- Press the 'OK' control when 'Set Volume' is displayed in the menu options.
- To increase the volume push the 'OK' control upwards; to decrease the volume push the 'OK' control downwards.
- Press the 'OK' control to save the new setting. The unit will display 'Setting Confirmed'.



3. Set Alert Tone

There are three audible settings to choose from:

- Hard Tone
- Soft Tone
- Off

To select your alert tone:

- Press the 'OK' control when 'Set Alert Tone' is displayed in the menu option.
- Highlight your desired option by pushing the 'OK' control upwards or downwards.
- Once your desired setting is highlighted press the 'OK' control to save the new setting. The unit will display 'Setting Confirmed'.



4. Speed Limit Alert

This safety feature has been designed to let you program your Snooper Sapphire to alert you when you reach any speed you choose. For instance you could set your unit to alert you when your speed reaches 30mph so that you never accidentally stray over the speed limit.

To set the speed limit alert:

- Press the 'OK' control when 'Speed Limit Alert' is displayed in the menu options.
- Highlight 'ON' by pushing the 'OK' control upwards and then press the 'OK' control.
- Push the 'OK' control upwards to increase the speed limit or downwards to decrease the speed limit.
- Once your desired setting is displayed press the 'OK' control to save the new setting. The unit will display 'Setting Confirmed'.



Note: The speed limit alert will only activate once you exceed your speed limit setting. If you remain above your speed limit you will not receive another alert until your speed drops below your speed limit setting and you then increase your speed again.

5. Voice Alerts

The Snooper Sapphire has a selectable voice alert which is switched 'ON' by default. This facility allows your unit to inform you to exactly what type of location you are approaching without you having to take your eyes from the road. The unit also indicates the posted speed limit for that location.

To alter the settings for voice alerts:

- Press the 'OK' control when 'Voice Alerts' is displayed in the menu options.
- Highlight your desired option ('ON' or 'OFF') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the setting has been saved.



Note: If voice alerts are turned 'OFF' the unit will alert you to the location of a Fixed Speed Safety camera by a series of beeps. The visual display will remain the same.

6. User Points

It is possible to add and edit your own personal locations on your Snooper Sapphire. To add a new location make sure you are stationary and parked in a safe, legal manner then press and hold the 'MEM' button for approximately two seconds.

A screen will be displayed asking if you want to 'Save User Position?' Use the 'OK' control to highlight 'Yes' and then press the 'OK' control to confirm.

To view your saved coordinates:

- Press the 'OK' control when 'User Points' is displayed in the menu options.
- 'Edit' is highlighted by default. Press the 'OK' control to view or edit your stored coordinates.
- To scroll through the user points you have stored push the 'OK' control to the right or left.

To edit the user point:

- Once you have selected the user point that you wish to edit push the 'OK' control downwards – 'CAM TYPE' will be selected. Push the 'OK' control to the left or the right until the correct camera type is displayed.
- Push the 'OK' control downwards – 'LIMIT' will be highlighted. Push the 'OK' control to the right or left until the correct speed limit for that location is displayed.
- Push the 'OK' control downwards – 'SPD TYPE' will be highlighted. Push the 'OK' control to the left or right to select either 'MPH' or 'KMH'
- Once you have made your changes press the 'OK' control. The unit will display 'Setting Confirmed' to indicate the changes have been saved.



Troubleshooting – Saving New Coordinates

When you attempt to save a new coordinate but the display reads 'Weak Signal!' it means that your Snooper Sapphire is not receiving sufficient signal strength to plot the position. Please ensure that the Snooper Sapphire flip up GPS antenna has a clear view of the sky, the unit is displaying the standby screen and try again.

When you attempt to save the new coordinate and the display reads 'Memory Full' it means that the memory in your Snooper Sapphire is completely full. If you want to store any new coordinates you will have to either delete some or all of the existing coordinates stored in the unit's memory.

Deleting Stored Coordinates

If you would like to delete any of the coordinates you have stored in your units memory:

- Press the 'OK' control when 'User Points' is displayed in the menu options.
- To delete individual user points highlight 'Delete' by pushing the 'OK' control downwards. Once 'Delete' is selected press the 'OK' control.
- Push the 'OK' control to the right or left to scroll through the stored user points. Once the coordinates you wish to delete are visible on the display, press the 'OK' control button.
- A new screen will be displayed asking you to 'Confirm Delete?'. If you wish to delete the coordinate highlight 'Yes' and then press the 'OK' control. If you do not wish to delete the coordinate highlight 'No' and then press the 'OK' control.
- The Sapphire will confirm the coordinate has been deleted by displaying 'Position Cleared'.

To delete all the user stored coordinates on the Sapphire

- Press the 'OK' control when 'User Points' is displayed in the menu options.
- Highlight the 'Delete All' option by pushing the 'OK' control upwards or downwards then press the 'OK' control.
- A new screen will be displayed asking you to 'Confirm Delete?' with the options of 'Yes' or 'No'. Highlight your desired option then press the 'OK' control to confirm deletion. The unit will confirm the coordinates have been deleted by displaying 'Position Cleared'.

7. Select Language

This feature will allow you to select the language of the menu options and voice alerts on the unit. Currently the only Language available is English.

8. Smart Mute

The Smart Mute setting provides an alternative alert when approaching a Fixed Speed Safety Camera. If you are travelling below the posted speed limit the unit will provide a brief audible alert (two beeps) but then the rest of the alert is visual only. As the unit counts down the distance to the Fixed Speed Safety Camera the alert is visual only. If you are travelling above the posted speed limit however you will receive both an audible and a visual alert as normal. Once you drop below the posted speed limit for that Fixed Speed Safety Camera the audible alert will cease and the unit will only provide a visual alert.

To adjust the Smart Mute setting

- Press the 'OK' control when 'Smart Mute' is displayed in the menu options.
- Highlight your desired option ('ON' or 'OFF') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



9. Set Time

The Snooper Sapphire displays the time on the Standby Screen. This reading is updated by the GPS Atomic Clock and is generated directly from Greenwich Mean Time (GMT) and is completely accurate. However it does not automatically adjust for British Summer Time (BST) and is required to be adjusted manually. The device is supplied with a factory default setting of GMT+0.

To adjust the time from Greenwich Mean Time to British Summer Time

- Press the 'OK' control when 'Set Time' is displayed in the menu options – 'GMT + 0' is displayed.
- Push the 'OK' control upwards once until 'GMT + 1' is displayed then press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



To adjust the time from British Summer Time to Greenwich Mean Time

- Press the 'OK' control when 'Set Time' is displayed in the menu options – 'GMT + 1' is displayed.
- Push the 'OK' control downwards once until 'GMT + 0' is displayed then press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.

10. Logic

There are three Logic modes that you can select on your Snooper Sapphire. These different Logic settings determine how the Sapphire alerts you to fixed speed safety cameras.

Selecting Your Preferred Logic Mode -

To change the logic mode:

- Press the 'OK' control when 'Logic' is displayed in the menu options.
- Push the 'OK' control upwards or downwards to scroll through the Logic options
- Once you have highlighted your preferred logic mode press the 'OK' control to confirm the new setting. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



11. Adjust Brightness

You can adjust the brightness of the TFT LCD full colour graphical display to accommodate different driving conditions.

To adjust the brightness of the display

- Press the 'OK' control when the 'Adjust Brightness' is displayed in the menu options.
- To increase the brightness push to 'OK' control upwards; to decrease the brightness push the 'OK' control downwards.
- Press the 'OK' control to save the new setting. The unit will display 'Setting Confirmed'



12. Schools

The Snooper Sapphire allows you the option of choosing whether or not you would like to receive advanced warnings of Primary Schools (Schools are time sensitive on the Sapphire – 08:30-09:30am, 12:00-13:00 and 15:30 to 16:30). This feature is switched 'ON' by default. However if you wish to turn this alert off (at weekends for example) you can do this by using this facility.

Note: The unit can only alert you to Primary Schools if you have selected to download 'UK Schools' on the download software. The unit will alert to schools at the times specified above every day.

To turn School alerts 'ON' or 'OFF'

- Press the 'OK' control when 'Schools' is displayed in the menu options.
- Highlight your desired option ('ON' or 'OFF') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



13. High Risk Zones

The Snooper Sapphire allows you the option of choosing whether or not you would like to receive advanced warnings of areas such as Accident Black spots that may not currently have Fixed Speed Safety Cameras installed near them but which are still considered as High Risk Zones. This option is switched 'ON' by default and locations are downloaded as part of the UK camera database.

To turn High Risk Zone alerts 'ON' or 'OFF'

- Press the 'OK' control when 'High Risk Zones' is displayed in the menu options.
- Highlight your desired option ('ON' or 'OFF') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



14. Satellite Status

The Snooper Sapphire comes with a facility to check the GPS status.

To view the information:

- Press the 'OK' control when 'Satellite Status' is displayed in the menu options.

15. Speed Type

This feature allows you to choose which speed measurement method you prefer either kilometres per hour (KMH) or miles per hour (MPH). The device is supplied with MPH turned ON as the factory default setting.

To change the speed measurement type

- Press the 'OK' control when 'Speed Type' is displayed in the menu options.
- Highlight your desired option ('MPH' or 'KMH') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



16. Select Road Type

As specified in the Operating Instructions section earlier in this manual you can select the road type to screen out unwanted alerts on 'A' and 'B' roads when you are on a Motorway or screen out unwanted alerts when travelling on an 'A' or 'B' road of camera locations situated on a motorway.

To alter the road type

- Press the 'OK' control when 'Select Road Type' is displayed in the menu options.
- Highlight your desired option ('City', 'M-way' or 'All') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



17. Change Screen Colour

There are eleven different screen colour settings for the standby display.

To change the screen colour:

- Press the 'OK' control when 'Change Screen Colour' is displayed in the menu options.
- Move the 'OK' control left or right to scroll through the colour options. When your preferred setting is displayed, press the 'OK' control again. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



18. Key Sound

When you use the 'OK' control to enter or scroll through the menu options on the Sapphire an audible beep is emitted each time the control is operated. This audible beep is turned ON by default.

To turn the Key Sound 'ON' or 'OFF'

- Press the 'OK' control when 'Key Sound' is displayed in the menu options.
- Highlight your desired option ('ON' or 'OFF') by pushing the 'OK' control upwards or downwards.
- Once you have highlighted your desired setting press the 'OK' control. The unit will display 'Setting Confirmed' indicating the new setting has been saved.



Motorcycle Installation

The Snooper Sapphire can be installed on to a motorcycle. An ear piece is available as an optional extra so that audible alerts can be heard.

Remember however that the Snooper Sapphire is not waterproof so needs to be mounted within a tank bag or other waterproof holder. Always remember that in order for your Snooper Sapphire to work effectively the unit needs to be positioned so that the flip up GPS antenna has an unobstructed view of the sky. If you require any further advice please visit our website www.snooperuk.com

Troubleshooting Sapphire Downloads

If you are having difficulty performing a download to your Snooper Sapphire it is worth going through the following checklist first before contacting us. If you are still unable to perform a download after following this checklist then please visit our website www.snooperneo.co.uk

This guide is in two sections; the first section is a list of things to check before performing a download and the second section consists of possible reasons and solutions to error messages encountered while trying to perform a download.

SECTION ONE

1. Have you registered your Sapphire?

You will not be able to download the database unless the Sapphire is registered. To register your unit visit www.snooperneo.co.uk

2. Is the USB PC connection lead supplied with the Sapphire connected correctly?

Please check that the USB lead is plugged into the USB socket on the Sapphire and is fully plugged in as far as possible. Check the computer connection is secure.

3. Have you installed the driver for the USB connection lead correctly?

This lead requires a driver to be installed onto your PC. The driver software is on the software disc provided and requires installing before the Sapphire Updater software is installed.

4. What operating system are you using on your computer?

The Snooper download software will only work on the following Windows operating systems: Windows 2000 and Windows Xp.

THE SOFTWARE WILL NOT WORK ON WINDOWS 95/98/98SE and Millennium. Apple Macintosh is not supported.

To determine which operating system you have on your computer:

- a) Right click on the 'My Computer' icon on your desktop and select 'Properties' from the drop down menu.
- b) When the 'System Properties' dialogue box opens the 'General' tab is selected by default. Under the heading 'System' the operating system is displayed.

5. Have you installed the Sapphire download software onto your PC?

If you have not installed the software you will not be able to perform a download to your Sapphire. Once the software is installed there will be a new icon on your desktop: 'Sapphire Updater'. Please check to see if you have the latest version of the software by visiting www.snooperneo.co.uk and clicking on the link 'Download Software'.

6. Have you connected your PC to the internet?

The computer needs to be connected to the internet before you can begin to download the database to your Sapphire.

7. What version of Internet Explorer / Netscape Navigator are you using?

The software will only operate if you have Internet Explorer or Netscape Navigator 4.5 or above.

To check what version of Internet Explorer you have; open your browser, click on the 'Help' menu and select 'About Internet Explorer'. This should now display what version you currently have installed. If you have a version older than 4.5 (e.g. 4.0), open your browser, click on 'Tools' and select 'Windows Update'. This will take you to the Microsoft website where you can download the latest version of internet explorer.

To check what version of Netscape Navigator you have: open the browser, click on the 'Help' menu and select 'About Netscape Navigator'.

SECTION TWO

If after going through section one you are still experiencing difficulty or have received an error message please read through the following:

ERROR MESSAGE – '-2147220504 There was an error downloading the data'

If you get an error message similar to the above this normally means there is something blocking communication between the software, most typically a firewall, and our server. Windows XP is supplied with an 'Internet Connection Firewall'. Depending on which Service Pack you have for this operating system you will need to access the firewall settings and allow access for the software. We recommend updating to Service Pack 2 as this will allow easier configuration.

If you have a Firewall on your computer the software may appear to hang and your Firewall software will inform you that the Snooper Updater software is trying to access the internet. Please make sure that you grant/allow/permit access through the Firewall. Please read the messages supplied by your Firewall software carefully before choosing your option. If you do not allow the program to access the internet through the Firewall, the download process will fail.

If no message was prompted by the firewall software uninstall and then re-install the software and perform a download again.

Warning: We do not recommend disabling your firewall software in order to perform a download to your Snooper Sapphire nor can we advise how to alter the settings on third party software nor can we be held responsible for any action taken by the computer user that makes the computer more vulnerable to viruses and computer hackers. Any changes made to the computer firewall settings are at the user's discretion. We would recommend contacting the third party software manufacturer for information of how to configure the firewall software.

Further Troubleshooting

The unit cannot be switched on

Check that the cigarette lighter adaptor is well inserted into the cigarette lighter socket and that the cigarette lighter socket is functioning properly. Check that the lighter socket is clean and free from debris. Also check that the fuse of the cigarette lighter adaptor is intact.

If you are using the hardwire connection check that you have secured a good earth and that you have taken the 12v feed from a 12v supply that is live on ignition. Also check that the in-line fuse is intact.

The unit cannot acquire satellite connection

Check that the Sapphire's flip up GPS antenna has a clear view of the sky above.

If this is the first time you have powered up your Sapphire please remember that the first 'cold' start may take up to 50 minutes to acquire sufficient satellite connection. The unit requires time to calibrate and you will find that with subsequent use the time for acquiring satellites will reduce.

The satellite signal temporarily or permanently drops out

This may happen temporarily in areas where there are a significant number of tall buildings or trees or whilst driving through a tunnel. The signal should only be lost for a few seconds and quickly reacquired.

Check that the device has not moved and that the flip up GPS antenna still has a good clear view of the sky above.

Very occasionally you may experience bad satellite coverage that may lead you to losing a signal. This should last no longer than a few minutes.

The device does not appear to respond to fixed speed camera systems

Have you performed a download recently? If not, perform a fresh download to ensure that you have all the latest coordinates stored on your device.

Check your settings to see if you have 'Smart Mute' activated. If 'Smart Mute' has been activated the device will only alert you to GPS generated locations if you are travelling above the posted speed limit.

Specification

General

Power requirements	10 – 16V DC, 320mA (Negative Ground)
Temperature Range	4 to 158°F (-20 to 70°C)

Dimensions

Width	106mm
Depth	30 mm (When flip up GPS antenna is closed)
Height	54 mm

GPS

Receiving Method	16 channels parallel
Receiving Frequency	1575.42 MHz +/- 1 MHz, C/A code
Initial cold Start	5 to 45 minutes (Typ) at normal temperature
Normal Cold Start	90 seconds (Typ) at normal temperature
Warm Start	30 seconds (Typ) at normal temperature
Hot Start	5 seconds (Typ) at normal temperature

Snooper Accessories & Price List

The following accessories are available from your local Snooper dealer. For further details please visit www.snooperuk.com

External GPS extension antenna.....	£34.99
Coiled power lead with cigarette lighter adaptor.....	£12.99
2m Straight power lead with cigarette lighter adaptor.....	£12.99
2m Straight hard wire lead with fuse.....	£12.99
Windscreen mounting bracket.....	£24.99
USB PC connection lead.....	£12.99
1 – 3 Lighter socket extension.....	£7.99
25ml anti-static LCD display cleaner & protector.....	£7.49
Custom Pro Fit Bracket *	£19.99

*Pro Fit brackets are a custom bracket, usually attached to an air vent. These brackets are specific to each vehicle so therefore you should contact Performance Products, on 0870 787 0700 and select option 2, to check the availability of a bracket for your vehicle.

Service under Warranty

Your Snooper Sapphire comes with a standard two year manufacturer's warranty.

If, for some reason, your unit requires service under warranty return your Snooper Sapphire, via special or recorded delivery and in suitable packaging to:

The Returns Department
Performance Products Limited
Cleaver House, Sarus Court, Manor Park, Cheshire WA7 1UL

Enclose the following information:

- (a) Your name, address and a full description of the problem.
- (b) A telephone number where you can be reached during business hours.
- (c) Your units' serial number.