



## USER GUIDE



**Blackspot Interactive Limited**  
Unit 5, New Rookery Farm, Little London  
Silverstone, Northants NN12 8UP

Email: [info@blackspot.com](mailto:info@blackspot.com)

Web: [www.blackspot.com](http://www.blackspot.com)

Please register your ROAD ANGEL COMPACT and update its database of danger zones as soon as possible.

## ***Thank you for buying your ROAD ANGEL COMPACT***

As our roads become busier, more congested and more regulated, staying alert to road and traffic conditions is a challenge to everyone. Even the most conscientious driver can have a momentary lapse of concentration that could easily lead to an accident or a fine and points.

ROAD ANGEL COMPACT is specially designed to be a simple-to-use addition to any vehicle, to alert and warn you in advance of known danger areas. In the comprehensive ROAD ANGEL COMPACT database are stored Police, Local Authority and Ministry of Transport designated danger spots, including accident black spots and safety camera locations.

Using the latest Global Positioning Satellite (GPS) technology, ROAD ANGEL COMPACT compares your position with the known danger spot locations and gives you an audible and visual warning as you approach them. An accurate GPS speedometer in the display gives you time to adjust your driving to the approaching danger.

The safety of you and your passengers is our prime consideration, and we trust that for all the miles you drive, your ROAD ANGEL COMPACT will enhance the safety and enjoyment of your journey. Join other ROAD ANGEL COMPACT users in guarding your life and livelihood.

We are pleased to have you as a valued customer and hope you will be delighted with your ROAD ANGEL COMPACT. Having listened to our customers we think the new features will make this product your perfect driving companion.



Dave Clark, Managing Director

Blackspot Interactive Ltd.



***The directors of Blackspot Interactive Ltd. sell ROAD ANGEL COMPACT as a road safety enhancement device. Driving within the speed limits at all times and within the limitations of the road condition and your abilities is paramount. The directors of Blackspot Interactive Ltd. take no responsibility for the use of ROAD ANGEL COMPACT for other purposes than those stipulated.***

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# 1. Introduction

Road Angel Compact uses the latest global positioning satellite (GPS – see page 34) technology to give you audible and visible alerts as you approach hazardous sections of road:

- Accident black spots (as designated by the Police and Local Authorities)
- Safety cameras
- Mobile roadwork cameras
- Average speed measurement areas



ROAD ANGEL COMPACT also displays a constantly updated and accurate speed reading with your compass heading. Should you break down, ROAD ANGEL COMPACT allows you to pinpoint your location and direct rescue services to your vehicle.

## ***ROAD ANGEL COMPACT's main features***

- Simple windscreen mount with 'plug & go' installation
- Easy to position in any vehicle
- High visibility speed, time/compass display
- Built in Visor
- User programmable locations
- Full range of hazardous sites
- Audible and visual warnings
- Instant distance-to-danger reading
- Speech alerts
- Database updates (via Windows PC over the Internet)
- Designed and manufactured in the UK
- Simple to adjust settings

## Front View

### Menu Button

Press to enter and navigate ROAD ANGEL COMPACT's settings (see page 21) or to mute unit (see page 18).

### Store Button

Press to enter new zones (see page 27) and confirm new settings (see page 21)



### Display

Shows speed, time/heading, satellite reception and indicates type of hazard (see page 16).

### Delete Button

Press to change ROAD ANGEL COMPACT settings (see page 21) or remove alert zone from database (see page 27).

### Magnetic Base

Magnet in base of unit secures ROAD ANGEL COMPACT to rubberised metallic disk on mounting bracket or dash pad.

## Back View



**External Antenna**  
Required for certain vehicles (see page 12).

**USB Port / Power**  
PC connection – use to obtain database updates (see page 29) and to connect to the vehicles cigar socket

**Auxiliary Port (AUX)**  
Connection for additional laser sensors.

## **ROAD ANGEL COMPACT's Database**

ROAD ANGEL COMPACT uses a database of Police, Local Authority and Ministry of Transport designated danger spots, including accident black spots and safety camera locations, primary schools and congestion charging zones. Your ROAD ANGEL COMPACT can store up to 50,000 unique danger locations. Using the latest Global Positioning Satellite (GPS) technology, ROAD ANGEL COMPACT compares your position with known danger spot locations and gives you an audible and visual warning as you approach them.

It is critical to the accurate operation of your ROAD ANGEL COMPACT that you update your unit regularly to maintain the very latest data. With up to 100 new hazard locations added each month, we suggest that you update your ROAD ANGEL COMPACT monthly (see *Updating the Database* on page 29). If you are a high mileage driver, using unfamiliar roads, we recommend weekly updates.

To qualify for database updates:

- 1. Register your ROAD ANGEL COMPACT with Blackspot Interactive Ltd. You cannot update the database until you have registered (see page 7).**
- 2. Purchase a valid subscription package (see page 8). Your new ROAD ANGEL COMPACT comes with an initial, free, 6-month subscription.**

## **Register Now!**

Register your ROAD ANGEL COMPACT immediately after purchase. This is important for two reasons:

- You cannot update the unit until it has been registered. Database information will be significantly out-of-date at the time of purchase and should be updated as soon as possible (see page 29).
- Without registration, we cannot resolve warranty issues, log queries or solve problems with your ROAD ANGEL COMPACT.

REGISTER your unit in one of the following ways:

1. Register online:
  - a) Go to [www.blackspot.com](http://www.blackspot.com)
  - b) Click on the *Product Registration* link. The Product Registration form is displayed.
  - c) Enter your ROAD ANGEL COMPACTS's serial number. You can find this on the back of the unit.
  - d) Click on the Next button. Once your details have been entered, you will be prompted to download the update software directly to your PC. The registration process normally takes one full working day – you can then use the software to update your ROAD ANGEL COMPACT(see page 29).
2. If online registration is not possible, please call the Registration helpline (recorded) on: 0870 084 7439. Leave your name, address and telephone number and we will forward a registration form to you the same working day (Mon – Fri).

## **Subscriptions**

Your ROAD ANGEL COMPACT comes with a free subscription for six months of database updates and product support. It is critical to the operation of your ROAD ANGEL COMPACT that you update the unit regularly and so continued subscription is essential. With constant additions to the Road Angel database (1000+ sites per year), the benefit of your ROAD ANGEL COMPACT and the protection it provides will be dramatically reduced if you fail to maintain your database.

You can also subscribe online at <http://www.blackspot.com/subscriptions/>.

## **Warranty**

Your ROAD ANGEL COMPACT is guaranteed for one year from the date of purchase from all defects that occur with normal use. If your unit fails to perform as specified in these instructions, please visit:

<http://www.blackspot.com/warranty>

## **Security**

Owing to the high number of thefts, we strongly suggest you remove your ROAD ANGEL COMPACT and its bracket from view when you leave your vehicle.

Please contact Blackspot Interactive Ltd if your unit is stolen or lost. Each ROAD ANGEL COMPACT is identified by a unique serial number on the back. We can disable a unit through our security systems and detect any attempt to re-register it. This has frequently resulted in the safe return of a ROAD ANGEL COMPACT to its rightful owner.

## 2. Installation

This section shows you how to install ROAD ANGEL COMPACT in your vehicle.

### ***Unpacking***

Empty all the parts out of the box and familiarise yourself with each item. Each pack contains:

- The ROAD ANGEL COMPACT unit
- A windscreen mounting bracket with:
  - 2 x Suction cups
  - 4 x Anti-vibration dampers
- Dashboard mounting pad
- Cables:
  - 1 x Cigar Power Plug
  - 1 x USB cable/Power Cable
- Quick Start Guide

### ***Mounting the Unit***

We recommend that you install your ROAD ANGEL COMPACT on the dashboard of your vehicle. ROAD ANGEL COMPACT has an internal high sensitivity GPS antenna and requires a clear view of the sky to communicate with GPS satellites.

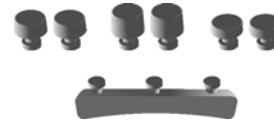
If you want to install ROAD ANGEL COMPACT anywhere else within your vehicle, you will require an external GPS antenna. Please contact Blackspot Interactive Ltd or visit [www.blackspot.com](http://www.blackspot.com) for details.

ROAD ANGEL COMPACT has a quick release magnetic base and is supplied with:

- A bracket for mounting ROAD ANGEL COMPACT on the front windscreen.
- A mounting pad for fixing ROAD ANGEL COMPACT directly onto the dashboard.

## Assembling the windscreen mounting bracket


1. Locate the seven anti-vibration dampers; there are three pairs of round dampers and a long rectangular bar.



2. Select a pair of dampers according to the pitch of your vehicle's windscreen:

Windscreen pitch	Damper type
Low, streamlined e.g. Sports car style	short
Standard e.g. Saloon style	medium
Upright e.g. 4X4 style	long

3. Insert the selected pair of dampers into the two holes towards the back of the bracket, and slide towards the back. These dampers hold the bracket at the correct angle and stop it from touching the windscreen.

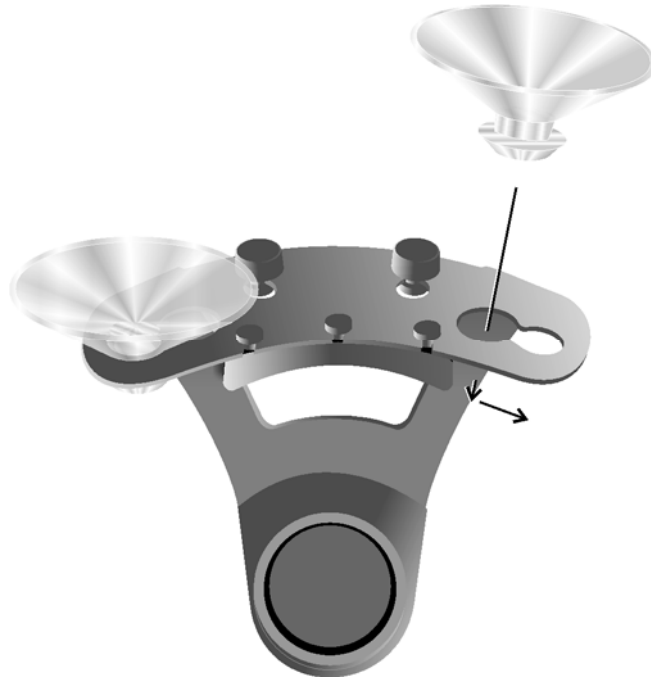
 You may need to experiment with different combinations of the dampers to get the best fit.



4. Press the rectangular damper into the three holes along the front edge of the bracket. This damper stabilises the ROAD ANGEL COMPACT in the mounting bracket.



5. Push the two clear suction cups into the large holes on the top of the bracket. Slide across to the smaller holes towards the outside edge of the bracket.



6. Attach the bracket to your vehicle's windscreen. Read the guidelines in the next section (see *Mounting ROAD ANGEL COMPACT in a Car*, on page 12).

 **Do not leave the bracket on the front windscreen without the product attached, for security issues (see page 8).**


### Using the dashboard pad

You can mount ROAD ANGEL COMPACT directly onto the dashboard using the supplied rubber pad.

Remove the backing from the bottom of the pad and fix to the dashboard (see *Choosing the location* on page 12). ROAD ANGEL COMPACT can be placed onto the rubber pad where it will be held firmly.

## Choosing the location

*Mounting ROAD ANGEL COMPACT in a Car*

 **NO ROAD ANGEL COMPACT OR ASSOCIATED ITEMS SHOULD BE ATTACHED TO OR PLACED ACROSS THE PADDED SURFACE OF THE AIRBAG MODULE ON THE PASSENGER SIDE OF THE DASH PANEL. ALL WIRING MUST BE TUCKED AWAY SO AS NOT TO INTERFERE WITH ANY OF THE VEHICLE'S CONTROLS.**



*Use with UV and Heated screens*

UV screens block GPS signals from entering the vehicle, stopping ROAD ANGEL COMPACT from acquiring its position. This can be a problem with certain models of vehicle, i.e. BMW, Mercedes, Renault, Peugeot & Citroen.

Heated screens can also affect GPS signal strength.

If your vehicle has a UV or heated screen, you may need an additional antennae to support ROAD ANGEL COMPACT (please contact Blackspot Interactive Ltd or visit [www.blackspot.com](http://www.blackspot.com) for details). Most vehicles fitted with a UV screen have a defined section behind the rear view mirror where the antennae can be fitted.

## ***Providing power***

ROAD ANGEL-  
Back view



Power socket  
(PWR)

1. Locate the USB/Power Cable and the Cigar power plug.
2. Connect the cable to the socket labelled USB on the back of your ROAD ANGEL COMPACT.



3. Route the power cable to the cigar socket. Do not connect it yet.
4. Plug the other end of the USB/Power cable into the Cigar Power Plug



5. When routing the cable, ensure that it does not interfere with any of the vehicle's controls or airbag modules. If you use your cigar socket for any other devices, a dual adaptor may be used.

### Hardwiring

ROAD ANGEL COMPACT has a 5V regulator built into the Power Plug. If the cable is used to hardwire the unit into the vehicle, you will damage the device.

To hardwire the ROAD ANGEL COMPACT into your vehicle, purchase a cigar socket, wire this into the power system and use with the supplied cable.



***Consult an auto electrician if you are unsure how to carry out this procedure as incorrect hardwiring may affect the validity of vehicle and product warranty. Consult vehicle manufacturer if in doubt.***

## Getting Started

1. Place ROAD ANGEL COMPACT onto the mounting bracket or dashboard pad.  
When located correctly on the rubberised pad, ROAD ANGEL COMPACT is held firmly in position because of a magnet within its base.
2. Park your vehicle outside with a clear view of the sky through your windscreen (clear of obstacles such as tall buildings and over-hanging trees – these may delay or prevent satellite acquisition).
3. Plug the power plug lead into the cigar lighter socket. If your socket is ignition-switched you will need the ignition to be on.  
ROAD ANGEL COMPACT flashes its blue and red backlights.

If you have not updated your ROAD ANGEL COMPACT, the display illuminates red and prompts you to '*Please register your Road Angel and execute an update. Any key to continue*'. Press any button to clear this screen. When you have updated ROAD ANGEL COMPACT, this message will not appear again.



4. The display illuminates blue and show.



The first time the unit is switched on, it must acquire data from a minimum of 4 satellites to establish its position. THIS MAY TAKE UP TO 45 MINS. After approximately 4 hours use, ROAD ANGEL COMPACT's internal battery will be charged sufficiently for it to be able to memorise its position. Subsequent starts will acquire satellites within 1-2 minutes.

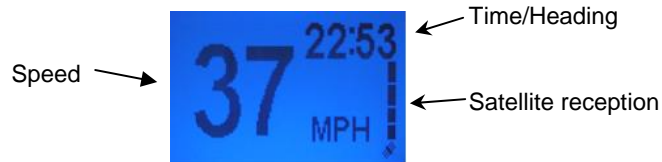
5. When ROAD ANGEL COMPACT has established its position, the display shows your speed (0 if you are stationary). Your unit is now ready for use.

## 3. Operation

### Understanding the Display

#### Standby Mode

In its normal standby mode, ROAD ANGEL COMPACT's display shows your speed and compass heading or time, satellite reception (indicated by a five-bar column – the more bars displayed, the greater the satellite reception) and the status of audio output:



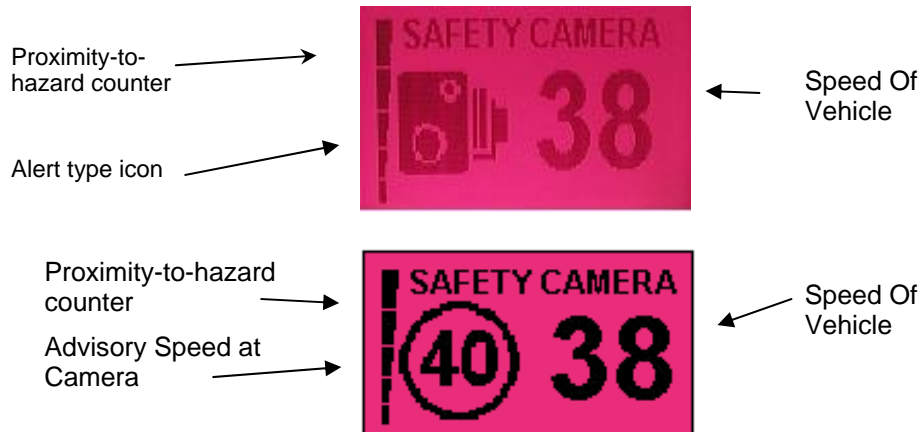
#### Speed Measurement

ROAD ANGEL COMPACT calculates your vehicle speed from GPS data. The speed is updated every second and, at a constant speed, is highly accurate. If you are accelerating or decelerating, the displayed value will lag behind the actual speed by a small margin.

You may find a difference between the reading on your vehicle's speedometer and ROAD ANGEL COMPACT. This is because all vehicles are manufactured with a tolerance on the speedometer to allow for tread depth, tyre size and pressure changes.

## Alert Mode

When you are approaching a known danger zone, the LCD display turns from blue to red and the type of danger is shown on the left side of the display. The table on page 19 shows the types of alerts issued by ROAD ANGEL COMPACT:



Please Note Advisory speed limit does not show on Blackspots, Schools or Congestion warnings.

In addition:

- The Proximity-to-hazard counter increases from 1 to 5 bars as you get closer to the danger zone.
- If the Warning has an Advisory speed limit then the alert type icon and advisory speed limit will alternate.
- Speech warnings will tell you the type of zone followed by an audible tone that increases with your proximity to the hazard.



**USE THE ADVISORY SPEED LIMIT FOR GUIDANCE ONLY.  
YOU SHOULD ALWAYS KNOW THE SPEED LIMIT AND TAKE  
ACCOUNT OF DRIVING CONDITIONS**

When you have passed the danger, ROAD ANGEL COMPACT returns to standby mode.








## Muting Audio and Speech Warnings

You can stop audio and speech warnings temporarily when you are in a danger zone, or permanently from Standby mode:

- To temporarily mute audio and speech warnings when in a danger zone, press the MENU or STORE buttons. When you have passed out of the danger zone, ROAD ANGEL COMPACT restores audio and speech alerts to your current menu settings.
- To stop all audio output, press and hold down the MENU button for about two seconds from Standby mode. ROAD ANGEL COMPACT displays the Alerts menu icon briefly and then returns to standby mode. The audio icon is overlaid with a cross. Repeat the procedure to restore audio output.

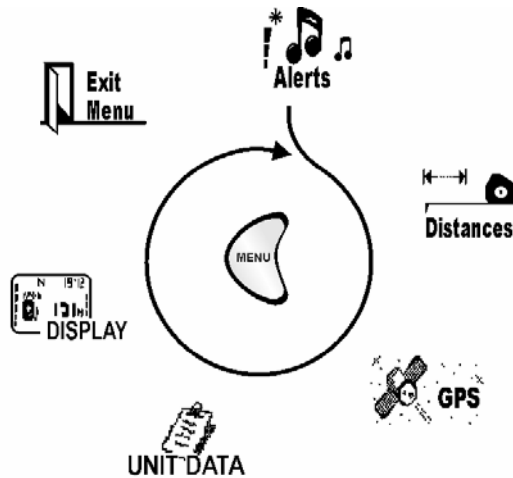
To customise audio and speech alerts for each type of danger zone, adjust the appropriate settings in the Alerts menu (see page 20).

## Alert Types

Alert Type	Icon	Location Type
<i>Fixed</i>		You are approaching a fixed Speed Camera ahead. ROAD ANGEL COMPACT only alerts you if you are travelling in the direction that the camera enforces.
<i>Mobile</i>		Temporary speed camera ahead, often seen in road works, or at a Speedmaster location.
<i>Average</i>		You are entering an average speed detection zone. The icon remains on screen whilst you are inside the enforcement zone.
<i>Blackspot</i>		You are approaching an accident black spot – an area identified by the police and local authorities.
<i>School</i>		<i>Optional setting:</i> You are near a Primary school (see <b>Alerts</b> on page xxiv).
<i>Congestion</i>		<i>Optional setting:</i> You are approaching a congestion-charging zone (see <b>Alerts</b> on page 24).
<i>Overspeed</i>		<i>Optional setting:</i> You are exceeding the speed limit you have set in the Alerts menu (see <b>Alerts</b> on page 24).

## Customizing ROAD ANGEL COMPACT

You can change the way ROAD ANGEL COMPACT works by adjusting its menu settings. Press the MENU button to view the menus and cycle through them.



ROAD ANGEL COMPACT's properties are categorised in the following menus:

- |                  |  |
|------------------|--|
| <b>Alerts</b>    | How ROAD ANGEL COMPACT alerts you to road dangers with audio and visual prompts.             |
| <b>Distances</b> | Set the distance at which ROAD ANGEL COMPACT commences its alerts.                           |
| <b>GPS</b>       | GPS information including RescueLoc (see <i>GPS</i> on page 34).                             |
| <b>Unit Data</b> | Technical information about your ROAD ANGEL COMPACT: its serial number and firmware version. |
| <b>Display</b>   | Screen contrast, speed units, Heading and time setting.                                      |

After several seconds of inactivity on a menu screen, the display will return to normal mode.

## Changing Settings

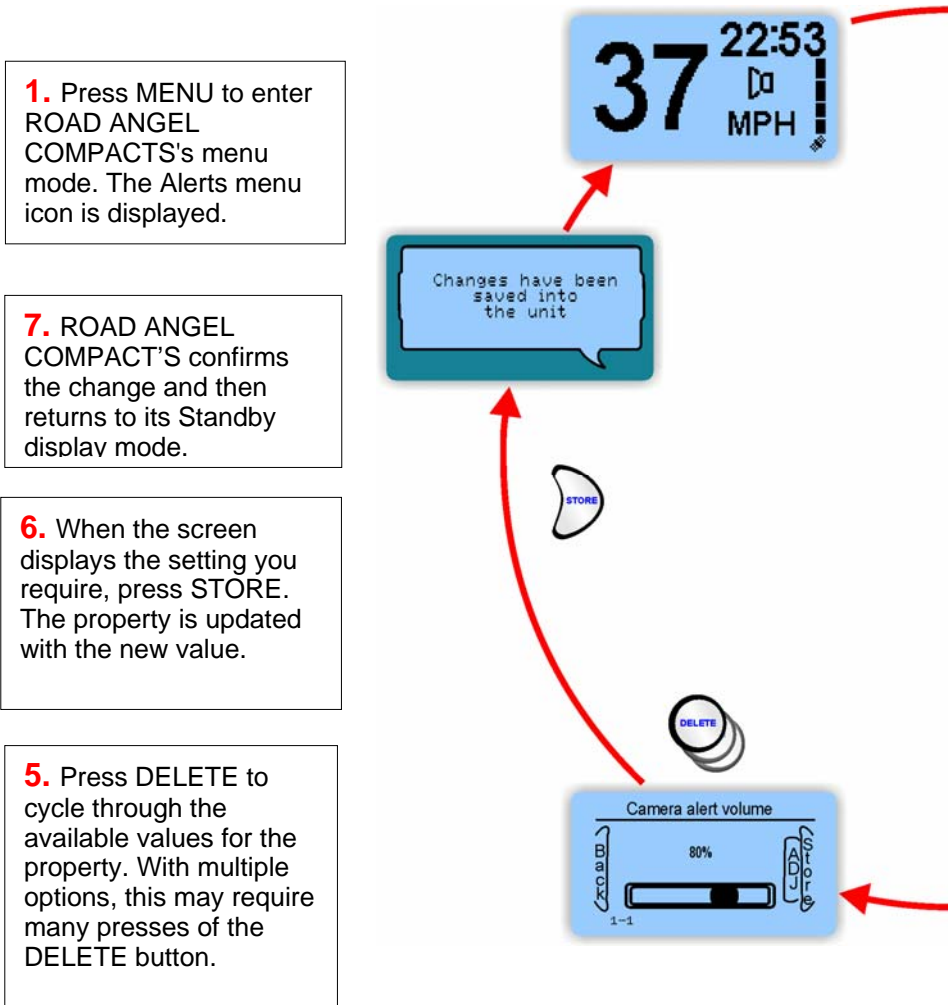
Locate the property you want to change, and make a note of:

- The menu it is in, for example: *Alerts*.
- The position of the property within the menu. Each menu and property has an associated number; ROAD ANGEL COMPACT displays the menu and property numbers in the lower left corner of the screen. For example, *Alerts* is menu 1 and *Camera alert single beep* is property 2 within the menu. For this property, ROAD ANGEL COMPACT displays 1-2.



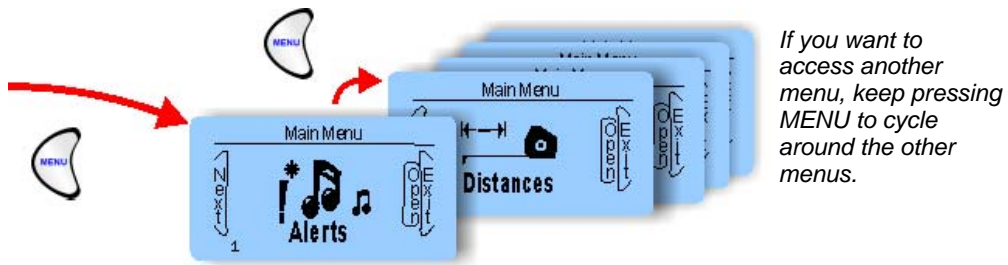
*You can use this notation to find a setting quickly. For example, RescueLoc is setting 3-2. To view RescueLoc quickly, press MENU three times, then DELETE, and then MENU twice more.*

*Illustration of the procedure for changing ROAD ANGEL COMPACTS's settings: how to view and change the Camera Alert Volume Setting.*



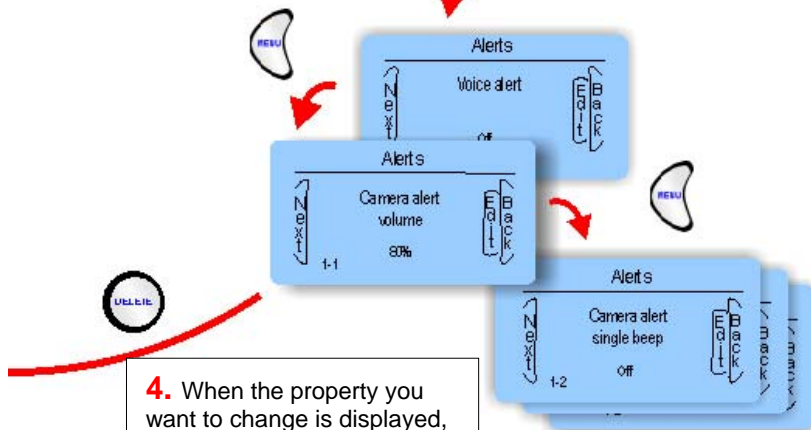


**PLEASE ONLY CHANGE MENU SETTINGS WHEN IT IS SAFE TO DO SO.**



**2.** To open a menu, press DELETE. The first property in the menu is displayed. In the Alerts menu, this is *Voice Alert*.

**3.** Press MENU to cycle through the properties in the menu.



**4.** When the property you want to change is displayed, press DELETE. The screen shows the options available for the property.

## Menu Settings

The following sections list all the editable properties in each of the menu categories.

### Alerts

Settings in the Alerts menu determine how ROAD ANGEL COMPACT warns you about road hazards.

No	Property	Details	Options (factory setting in bold)
1-0	<i>Voice Alert</i>	Switch voice alerts on or off.	Off... <b>On</b>
1-1	<i>Camera Alert volume</i>	Change the sound level of safety camera related warnings.	0..20...40...60... <b>80</b> ...100%
1-2	<i>Camera alert single beep</i>	Switch alert on or off, as each proximity bar counts up it will emit a single beep.	<b>Off</b> ...On
1-3	<i>Safety Alert Volume</i>	Change the sound level for Blackspot, School and Congestion related warnings.	0..20...40...60... <b>80</b> ...100%
1-4	<i>Safety Alert single beep</i>	Switch alert on or off, as each proximity bar counts up it will emit a single beep.	<b>Off</b> ...On
1-5	<i>Blackspot alert</i>	Switch Blackspot alerts on or off.	Off... <b>On</b>
1-6	<i>School zone alert</i>	Switch School alerts on or off.	<b>Off</b> ...On
1-7	<i>Congestion zone alert</i>	Switch Congestion zone entry warnings on or off.	<b>Off</b> ...On
1-8	<i>Overspeed alert</i>	Set a speed at which the unit will warn if you exceed the speed.	<b>Off</b> ...25 - 165
1-9	<i>Slow speed automute</i>	When travelling less than 15MPH the unit will not give an audible warning. If you enter a zone below 15MPH you will hear a single beep, followed by the proximity count up.	<b>Off</b> ...On
1-10	<i>Speed sensitive volume</i>	Adjust the warning volumes depending on how fast the vehicle is travelling.	<b>Off</b> ...On

## Distances

With its factory setting, ROAD ANGEL COMPACT alerts you to a hazard when you are within 250m of it; you can change this to 500m or 1000m. In addition, ROAD ANGEL COMPACT has a feature to increase the warning distance when you are travelling over 50mph.

No	Property	Details	Options (factory setting shown in bold)
2-0	<i>Alert distance</i>	Adjusts the warning range as you approach danger zones.	<b>250</b> ...500...1000m
2-1	<i>Speed distance sensitivity</i>	Doubles the advanced warning at 50MPH and above.	<b>Off</b> ...On

## GPS

The GPS menu also allows you to access *RescueLoc* so that you can identify your precise GPS position for rescue services.

No	Property	Details	Options (factory setting shown in bold)
3-1	<i>RescueLoc</i>	Read off exact GPS position (requires satellite acquisition) - can be quoted to rescue services.	<i>Read only</i> Latitude and Longitude, in degrees, minutes and seconds.

## Unit Data

This menu provides technical information about your ROAD ANGEL COMPACT: its serial number and firmware version.

No	Property	Details	Options (factory setting shown in bold)
4-0	<i>Unit serial number</i>	Serial number of ROAD ANGEL unit	<i>Read only</i> ; 8 digit number
4-1	<i>Firmware version</i>	ROAD ANGEL Software version	<i>Read only</i> , in format x.xx

## Display

Using this menu, you can change the appearance of the display: its contrast and the speed units in use. You can also adjust the clock and specify whether you want to view heading or time.

No	Property	Details	Options (factory setting shown in bold)
5-0	<i>Contrast</i>	Adjust the contrast of the ROAD ANGEL display.	0 – 19 ( <b>10</b> )
5-1	<i>Speed units</i>	Change displayed speed between mph and km/hr	<b>MPH</b> ....km/H
5-2	<i>Clock adjust</i>	Change time – ROAD ANGEL uses GPS data; may require offset to account for daylight saving time.	± 20 hours in ½ hour intervals. <b>(+1.00)</b>
5-3	<i>Time Setting</i>	Adjust between showing time or Heading	Off... <b>On</b>

## Adding and Deleting Danger Zones

Blackspot Interactive Ltd. are constantly updating the central database of danger zones. You can be of great value to all ROAD ANGEL COMPACT users by noting new information accurately, adding it to your ROAD ANGEL COMPACT 's database and then downloading the information to our central database. All general information is verified by Blackspot Interactive Ltd. before it is added it to the central file.



**PLEASE ONLY ADD OR DELETE DANGER ZONES WHEN IT IS SAFE TO DO SO.**

### Deleting zones

You can delete any of the locations stored in the ROAD ANGEL COMPACT database. When your ROAD ANGEL COMPACT alerts you to the required danger zone:

1. Press DELETE.
2. Confirm the deletion by pressing DELETE again.



*When a location has been deleted it can only be restored by re-entering the location (see Adding new locations, below) or by requesting a factory reset for your next update: email support@blackspot.com with your serial number and contact details.*  
**Note: By using a factory reset all your personally stored locations will be lost.**

### Adding new locations

You may add new locations to the FIXED, MOBILE, AVERAGE, BLACKSPOT and SCHOOL areas of your ROAD ANGEL database. When you update your ROAD ANGEL COMPACT these new locations will also be downloaded to the central database, and can then be verified by Blackspot technicians for inclusion in future updates.



*ROAD ANGEL COMPACT needs to be travelling in excess of 4 MPH to calculate the heading for the location.*

When your vehicle is precisely alongside the new location:

1. Press STORE once. This will confirm your location.

2. Press DELETE and choose the type of zone you want to store.
3. Press STORE to confirm your choice.

### **Adding an Average Speed monitoring section (SPECS zone)**

Store an average speed monitoring area only if you are absolutely sure of the start and finish points. When passing underneath the first 'start' SPECS camera carry out the following:

1. Press STORE once to store the first camera position.
2. Press DELETE to select the location type: AVERAGE.
3. Press STORE to confirm.
4. When you are underneath the finish camera, press STORE to confirm the finish position.

The section of average speed detection is now stored.



*If you press STORE by mistake, you have the option to cancel by pressing the MENU button.*

## **Protecting and Cleaning**

### **Cleaning the case and screen**

Your unit is made from tough polycarbonate moulded plastic and is designed to withstand normal daily handling. Only clean with a dry or slightly damp cloth. Do not use solvents or a wet cloth. When cleaning the LCD display, avoid pressing too hard as this may damage the display.

### **General precautions**

Avoid water or very damp conditions, extremes of heat (60°C) or cold (-10°C) and dropping the unit. We recommend removing ROAD ANGEL COMPACT and its bracket from the dashboard if the vehicle is parked for long periods in direct sunlight.

## 4. Updating the Database

Your ROAD ANGEL COMPACT is capable of storing up to 50,000 unique danger zones (see page 6). As soon as possible after your purchase, you should:

- REGISTER the unit. Online at [www.blackspot.com](http://www.blackspot.com) (see page vii). If online registration is not possible, please call the Registration helpline (recorded) on: 0870 084 7439. Leave your name, address and telephone number and we will forward a registration form to you the same working day (Mon – Fri).
- Download the latest version of the update software.
- Download the latest version of the database. You cannot update your ROAD ANGEL COMPACT until your registration has been processed – this can take up to 24 hours online. Allow 3-4 days for registrations using the recorded form request service.

We recommend that you update your ROAD ANGEL COMPACT on a regular basis, as safety camera locations are constantly changing. With new locations being added and old cameras being removed, we recommend a monthly update. If you are a high mileage motorist, using unfamiliar roads, you may want to update your database weekly. You should also update the database before you set off on a long trip.

To update ROAD ANGEL COMPACT, you will need to install the supplied software (also available as a download from our website) on a PC with Internet access. The software is supplied with full installation instructions. This also explains how to set up the USB communications between your PC and ROAD ANGEL COMPACT.

### System requirements

- IBM PC or 100% compatible
- Microsoft Windows 98SE, ME, 2000, XP
- Internet Explorer version 5.5 or above



*We do not support Apple Macs*

## Updating

1. Connect your ROAD ANGEL COMPACT to the PC using the USB cable.
2. With your Internet connection active, start the ROAD ANGEL COMPACT software.
3. Click on the Synchronise button.
4. Your ROAD ANGEL COMPACT is updated from the central database. Any additions you have made to your database are downloaded for confirmation and possible inclusion in future updates.



*You may need to configure your firewall or Internet Security software to allow the update software access to the Internet. Please refer to your product support guide.*

PLEASE VISIT THE SUPPORT SECTION OF [WWW.BLACKSPOT.COM](http://WWW.BLACKSPOT.COM) WHERE YOU WILL FIND THE LATEST ON-LINE UPDATE SOFTWARE AND INSTRUCTIONS.

## 5. Troubleshooting

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### *ROAD ANGEL COMPACT fails to power up*

1. If the cigar socket is ignition-wired, you will need to turn the ignition on to power up the ROAD ANGEL COMPACT.
2. On the plug in the cigar socket, check that the LED is illuminated. If it is not, please check that the plug is located properly and then test the internal fuse. If this is OK, then no power is reaching the socket – consult a qualified auto-electrician.

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### *ROAD ANGEL COMPACT lights up but does not acquire satellites*



1. Check the position of your ROAD ANGEL COMPACT in the car: it must have a clear view of the sky to acquire GPS data (see page 15).
2. Are you in a built-up area? If so, move to an area clear of tall buildings or overhanging trees.
3. If this is the first time the unit has been switched on it may take up to 45 minutes to acquire a signal.
4. Power down the unit and reboot by detaching and re-attaching the power lead.
5. Has the vehicle got a UV screen? Place ROAD ANGEL COMPACT onto the roof of the vehicle and wait for it to acquire satellite data; once acquired, place back into the car and see if it can hold the signal. If it cannot then an external antenna is required. Please visit [www.blackspot.com](http://www.blackspot.com) for details. If you have a Ford Focus or Mondeo with a *Quickclear* windscreen, ROAD ANGEL COMPACT will work if placed on the far right hand side of the dashboard.

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*ROAD ANGEL COMPACT loses the satellite signal (the display goes from*

*registering speed to*  *)*

1. This may happen temporarily owing to tunnels, tall buildings, bridges or dense foliage. When you are clear of the obstruction, ROAD ANGEL COMPACT should re-acquire satellite signals in a few seconds.
2. Have you moved the unit within the vehicle? Reposition ROAD ANGEL COMPACT to its original position.
3. You may be experiencing poor GPS coverage – very occasionally one or more satellites are out of sequence and the signal temporarily drops out. It should be restored within minutes.

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*No audible signal*

On powering the unit, irrespective of the volume level, the unit will sound. If you can hear this then the volume has been adjusted to minimum.

- a) Press MENU to move to Alert screen.
- b) Press DELETE to open the *Camera alert volume* setting.
- c) Press DELETE to edit the value.
- d) Press DELETE repeatedly until the display shows the required value.
- e) Press STORE to save the setting.

---

*I am not getting a warning on all fixed cameras*

1. Has the unit been updated recently? Carry out an update to add all the new locations (see page 29).
2. ROAD ANGEL COMPACT has a directional feature that allows it to ignore cameras that are enforcing the speed limit in the opposite direction.

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*I am not getting sufficient warning as I approach fixed cameras*

Increase the *Alert distance* setting:

- a) Press MENU twice to move to the Distances screen.
- b) Press DELETE to enter the menu.
- c) Press DELETE to edit the *Alert distance* (see page xxiv).
- d) Press DELETE repeatedly until the unit shows the required value.
- e) Press STORE to save the setting.

---

*Sometimes when I am driving I get a warning for a camera that is not there?*

1. Has the unit been updated recently? The camera may have been removed from the database.
2. ROAD ANGEL COMPACT may be warning you about a camera on a parallel road very close to the road you are travelling on. If this is the case, the proximity bars may switch off before they go all the way to maximum. This problem is more likely to occur if your ROAD ANGEL COMPACT is set to a long alert distance setting; to reduce this:
  - a) Press MENU twice to move to the Distances screen.
  - b) Press DELETE to enter the menu.
  - c) Press DELETE to edit the *Alert distance* (see page 19).
  - d) Press DELETE repeatedly until the display shows the required value.
  - e) Press STORE to save the setting.

---

*ROAD ANGEL COMPACT displays the message 'Please Register..' when I power it up*

Your ROAD ANGEL has not been updated. You need to register (see page 7) and update your ROAD ANGEL COMPACT (see page 30).

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*ROAD ANGEL flashes the message 'Alert Data Out Of Date'*

ROAD ANGEL COMPACT has not been updated for 30 days. You need to update ROAD ANGEL COMPACT as soon as possible.

## 6. Background Information

### About Global Positioning Satellites (GPS)

Operational since 1990, 24 satellites orbit the earth at a height of 11,000 miles. At any given point on the globe, at least 4 satellites are in view at any one time. Using sophisticated aeriels and triangulation techniques, units such as ROAD ANGEL COMPACT are able to compute your exact position with great accuracy.

### Speed Cameras and Black Spots

This section describes the type of cameras and road hazards covered by ROAD ANGEL COMPACT:



#### **Gatso**

The most common type of speed camera – used in fixed positions mounted on poles at the roadside. Measures vehicle speed using radar and, if the speed limit has been exceeded, photographs the rear of the vehicle. Uses a flash unit inside the camera cabinet or mounted on a gantry to illuminate the offending vehicle's rear number plate. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **TruVelo**

Measures vehicle speed using sensor strips in the road and photographs the front of a speeding vehicle, along with the driver. Uses an infra-red flash. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **SPECS**

Takes a digital photograph of your vehicle at the 'start' point and then another a set distance further down the road. If your average speed is greater than the speed limit between these two cameras you are automatically prosecuted. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **Watchman**

Measures vehicle speed and, if the speed limit has been exceeded, takes a photograph of the front of the vehicle, including the driver. Can be accessed remotely allowing operators to download live video, stored images or data. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **Speedcurb**

Measures the speed of vehicles in the monitored section of road using pressure sensors in the road surface. If the speed limit has been exceeded, it takes a photograph of the rear of the vehicle. Uses a flash module for night-time operation. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **Traffiphot**

Uses pressure sensors in the road (similar to Speedmaster – see below) to measure vehicle speed and photographs the rear of any speeding vehicle. Not to be confused with red-light cameras. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **Speedmaster**

Semi-permanent (fixed location but only used part-time), system that uses pressure sensors in the road to measure vehicle speed. Connects to a camera on a tripod for evidence of any offence. ROAD ANGEL COMPACT relies on up-to-date database information for detection.



### **Black spot**

A specific location, identified by the police and local authorities, where a high number of accidents have occurred e.g. a difficult junction. Mobile speed enforcement units often target black spots. ROAD ANGEL COMPACT relies on up-to-date database information to identify black spots.



### **Congestion**

Drivers must pay in advance or on the day of travel to enter the designated zone during the scheme's hours of operation. There are substantial penalties if you do not pay the congestion charge.




### **Primary Schools**

You can set up ROAD ANGEL COMPACT to alert you whenever you are within the proximity of a primary school.

## 7. Accessories

The following table lists the accessories available for ROAD ANGEL COMPACT. Please visit the ROAD ANGEL COMPACT online shop at [www.blackspot.com](http://www.blackspot.com) for more details.

Item	Details
<b>Additional Laser Sensor</b>	Plugs into ROAD ANGEL's auxiliary socket; alerts you to mobile laser devices including safety camera team and hand-held devices.
<b>Dash Pad</b>	Adhesive pad for mounting New ROAD ANGEL directly onto dashboard.
<b>Dual Lock</b>	Two-piece, recloseable fastener.
<b>Windscreen Mounting Kit</b>	Includes mounting bracket, four anti-vibration dampers and two clear suction cups.
<b>12v Cigar Plug</b>	Cigar plug to Power Road Angel Compact
<b>USB Cable</b>	Used for either powering the unit in the car or connecting to PC for updates
<b>Optional External Antenna (2m)</b>	Connects to ANT socket on New Road Angel – for use in vehicles with UV screens or for discrete mounting.

 *Blackspot Interactive Ltd. has made every effort to ensure that all the information contained in this manual is accurate and reliable. However, the information is subject to change without notice.*