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What's In The Box?

- 1 x Drivesmart Guardian
- 1x USB Update Cable
- 1 x 12V Cigar Lighter Power Lead
- 1 x Windscreen Mount
- 1 x Dash Mount



Button Functionality



- 1. Speaker
- 2. Temporary Mute
- 3. Satellite Lock
- 4. Live Radar Detection
- 5. Live Laser Detected
- 6. Your Vehicle Speed

- 7. Detected Laser Strength
- 8. Volume Level
- 9. Live Radar On / Off
- 10. USB Update Port
- 11. Power Input







1. Menu Button

Press the menu button to enter the menu. Press again to exit the menu.

2. Vol / Plus (+) Button

Use to scroll through menu and also turn volume up

3. OK Button

Use to make a menu selection

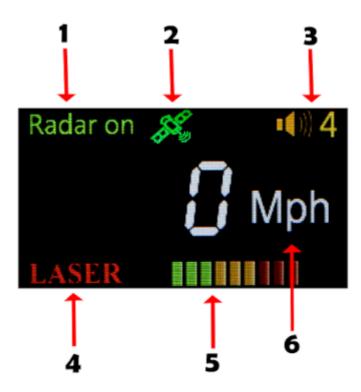
4. Vol / Minus (-) Button

Use to scroll through menu and also turn volume down





Standby Screen Explained



- 1. Live radar detection on.
- 2. Satellite lock.
- 3. Volume level.
- 4. Live laser detected.
- 5. Live laser strength.
- 6. Your vehicle speed.

Installation

Slide the wind shield bracket into the slot on the back of the device to secure it, (if the suction cups aren't already attached, apply them now)

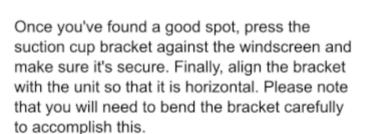


Mount your Guardian in a secure and convenient location on the front windscreen, where it has an unrestricted view of the road ahead, using the suction cup bracket.

We propose placing it near the bottom of the windscreen, just above the dashboard, where it will have a good view of the road ahead but will not be obscured by the windscreen wipers.







You will need to connect the power wire to the device and plug the other end into your cigarette lighter/12V power socket, so find a spot where you can accomplish this without obstructing or endangering the driver or passengers.

Connecting The Power Lead

Connect the power cable's RJ9 end to the unit's 'RJ9 in' connector on the side. Connect the opposite end of the cable to a 12V cigarette lighter outlet in your vehicle.



User note. Do not attempt to power Guardian in your vehicle using the USB cable or input socket. A USB power supply will not provide adequate power to run Guardian and it will not operate correctly. The USB socket and data cable is to be used for updating the software and speed trap database only.

General Operation

The Guardian has been shipped with settings set for optimum UK Performance as follows:

Radar / Laser Alert Settings

X Band - Filtered K Band - On Ka Band - On





GPS Alert Settings

Speed Trap Alerts - On Red Light Cameras - On Mobile Speed Trap Locations - On Smart Filter - On

Menu Settings

If you want to change these setting to suit your own requirements, please follow the instructions below.

Radar / Laser Settings

It is possible to fine tune the Guardian to the specific country that you reside. To do this enter the Menu by pressing the 'M' button on the underside of the unit. Use the '+' to scroll to highlight the option you wish to change.

When highlighted, press the 'OK' button. This will show your available options. Use the '+' to highlight the option you wish to toggle. When highlighted, press the 'OK' button. Press the 'M' button to leave the menu screen.

* WE ADVISE YOU KEEP THE LASER OPTION 'ON' AT ALL TIMES *



Using The Guardian While Driving In Europe

Below you will find the correct configurations for a selection of European countries

Germany / Austria

Radar & Laser Alert Settings

X Band - Filtered K Band - On Ka Band - On Laser - On

GPS Alert Settings Speed Trap Alerts - On Red Light Cameras - On Mobile Speed Trap Locations - On

Spain / Portugal

Radar & Laser Alert Settings

X Band - Filtered K Band - On Ka Band - On Laser - On

GPS Alert Settings Speed Trap Alerts - On Red Light Cameras - On Mobile Speed Trap Locations - On



Italy

Radar & Laser Alert Settings

X Band - Filtered K Band - On Ka Band - On Laser - On

GPS Alert Settings Speed Trap Alerts - On Red Light Cameras - On Mobile Speed Trap Locations - On

WARNING. Be advised that it is illegal to use a GPS / Laser / Radar Detector in France. We do not recommend you use Drivesmart products in France

If you are planning to drive in any country, including those listed here, please research their laws in relation to speed camera detection.

If you are caught using a speed camera detector in any country that has outlawed their use, you will be liable to some form of punishment.

These might include a heavy fine and seizure of your speed camera detector.



GPS Speed Camera Settings

GPS Speed Camera Settings control the alerts to locations stored within the Drivesmart speed camera database. These locations can be switched on and off to suit your individual needs.

Gatso

On / Off

Redlight

On / Off

SPECS

On / Off

Mobile

On / Off

To enter the menu, press the 'M' button on the underside of the unit. Use the '+' to highlight which option you want to toggle. To select press the 'OK' button.



Distance

Use this option to set the distance you want to be warned from, when approaching a speed camera detector.

Press the 'M' button to enter the menu. Press the '+' button to select the Distance option and press the 'OK' button.

Now you can use the same buttons to select your appropriate warning distance from the following options:

200m, 300m, 400m, 500m, 600m, 700m.

Distance Setting

On / Off

Use this option to turn off warning distance

Radar Smart Mute

On / Off

Turn this option on to only receive live radar alerts from locations that are listed on the speed camera database.





This filters out locations like supermarkets or hospitals that use radar proximity sensors on their sliding doors.

Press the 'M' button to access the menu. Now press '+' to scroll to the Radar Smart Mute option. Once highlighted, press the 'OK' button. Now you can select from the On / Off options.

Over Speed Setting

Turn this option on if you want an alarm to be triggered when your vehicle goes over a certain speed. Bear in mind this alarm will go off every time you go over the speed you set.

For example, if you set it to 40, the alarm will go off every time you go over 40MPH, regardless of the road speed limit.

To set an over speed warning, press the 'M' button to access the menu. Once in, use the '+' to scroll to the over speed warning option.

Make sure this is highlighted and press the 'OK' button. Set your over speed warning from the following options:

Off, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90.



Continuous Alert

On / Off

This option will give you a continuous alert when you are over the defined speed set in the over speed section. Can be switched on / off

Filtering System

On / Off

Additional radar filtering for vehicles that use radar sensors for collision detection and lane guidance. Can be switched on or off.

To access, press the 'M' button on the underside of the unit. Once in, use the '+' to scroll to the filtering system option. Make sure this is highlighted and press the 'OK' button. Select on or off.

Speed Adjustment

This allows you to adjust your real time GPS speed so it matches your speedometer. Your cars speedometer will read higher than your GPS speed. The GPS speed is the more accurate of the two.





This option will give you a continuous alert when you are over the defined speed set in the over speed section. Can be switched on / off

To adjust your GPS speed, press the 'M' button to access the menu. Now press the '+' to scroll through the menu until the Speed Adjustment option is highlighted.

Press the 'OK' button to enter this option and scroll through to set your preffered adjustment.

Laser

On / Off

This option allows you to switch off mobile laser detection. Please note, we strongly advise you keep this option switched on.

K

On / Off

This option allows you to switch off live K Band radar detection.



Ka

On / Off

This option allows you to switch off live Ka Band Radar Detection.

Motorway Mode

On / Off

On the motorway, you may occasionally get alerts from side roads when driving under a bridge.

The GPS signal tricks the speed camera detector into thinking you are on the side road, until you pass through this area.

If you switch on motorway mode, it only alerts you to speed cameras that for 55 MPH and above. Do not forget to switch this off when you leave the motorway.

Auto Range

On / Off

This will increase the warning distance based on your speed. So, if you are driving on a motorway, it will increase the warning distance by a specified range to offset your speed.





This option allows you to adjust display time to British Summer Time and use around the world.

Speed Setting

Lets you chose between MPH and KPH

Factory Settings

Yes / No

Reset your settings back to factory default ones.





Warranty

Having a problem with your Drivesmart Guardian?

Your Drivesmart Guardian comes with a 12 month warranty. To return your unit, please ship in protective packaging using tracked delivery.

DO NOT SEND SPECIAL DELIVERY.

Returns
Trading Direct Ltd
Unit 2 Francis Place
Pirbright
Surrey
GU24 0JU

Please enclose the following information:

- (a) Name, address, description of issue.
- (b) A contact telephone number.
- (c) A copy of proof of purchase.

Please note that the warranty will be considered void if the product:

Has been dropped or otherwise obviously mistreated.

Has been subjected to heat, moisture or damp conditions.

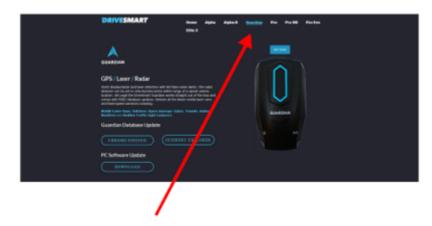
Has been opened or dismantled.

Has been charged or powered with any cable or charger other than the one supplied.

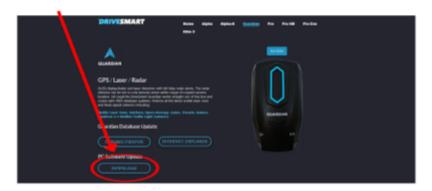


Updating The Drivesmart Guardian

 Go to the www.drivesmartpro.com website using your browser.

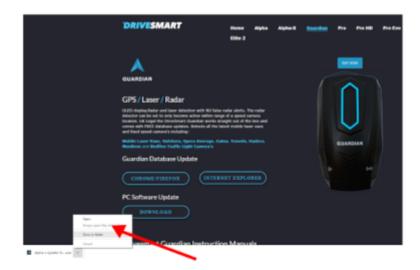


- IMPORTANT! Go to the Guardian tab along the top of the webpage. Choosing the incorrect download may stop your device from working.
- Click 'DOWNLOAD' button to download updating software.









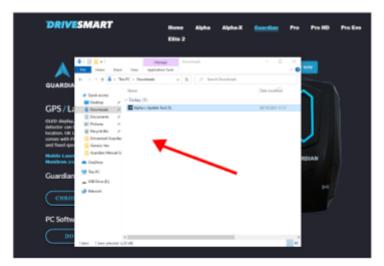
4. The download should appear at the bottom of the page. Click on the small arrow and you will get an option to 'Show In Folder'. Click this and you will be taken to your Downloads folder.

NOTE* If you are using INTERNET EXPLORER, you will be prompted to 'RUN / SAVE / CANCEL' click the SAVE option and then the OPEN IN FOLDER option.

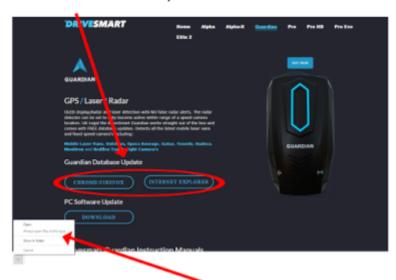
Navigate to your Downloads folder. The software will be listed. You can either double click to open or copy and paste it to your desktop and run it from there.







6. Head back to www.drivesmartpro.com/guardian This time you need to download the relevant Guardian Database Update as shown below.



7. When the download appears at the bottom of the screen, click the UP Arrow to bring up 'SHOW IN FOLDER'.



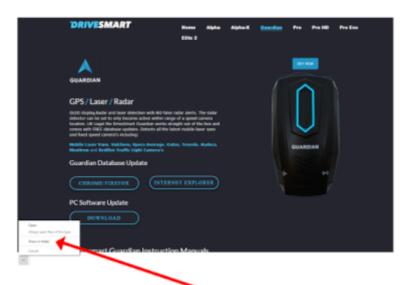




The FILE EXPLORER window should show you a .DWM file in your DOWNLOADS FOLDER.

IMPORTANT !! - If you are using Chrome / Firefox - jumps straight to STEP

9. If you are using INTERNET EXPLORER or MICROSOFT EDGE, you may have a slightly different download which comes as a ZIP FILE The bar will ask you to OPEN / SAVE / CANCEL. You need to click SAVE. (Note: Microsoft Edge will save this automatically)



 When the file has been saved, you can have the option to view where is it located, by clicking OPEN FOLDER or SHOW IN FOLDER.

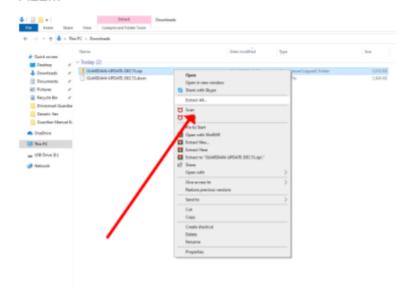




11. This will take you in to your FILE EXPLORER where you should be able to see where your ZIP file is now located. This will need EXTRACTING before we can upload it to your unit.



 To EXTRACT the files, you must RIGHT CLICK the ZIP file, and scroll to the option 'EXTRACT ALL...'



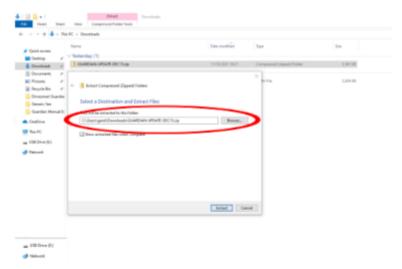




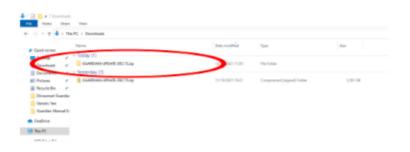








- Choose where to save your database update.
 The default location is the DOWNLOADS folder.
- 14. Click 'EXTRACT' and you should see the .DWM file in your chose folder location.







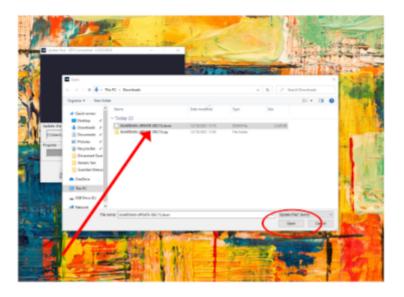








15. Connect your Guardian to your PC using the USB UPDATE CABLE. Once connected, run the Drivesmart software downloaded earlier. Click the OPEN button as indicated.









16. Click the update button and the progress bar will start to complete the task. DO NOT UNPLUG UNTILL THE UPDATE IS COMPLETED 100%.





Frequently Asked Questions

I drove past a camera van and my detector did not go off.

Mobile camera vans and police units do not fire at every vehicle that drives past. If you are driving at the speed limit, they will not fire.

I performed the latest database update and now my Guardian is no longer working.

Downloading an incorrect database will cause your unit to fail. If this happens, download the correct database and update again.

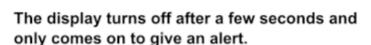
When driving, I am getting audio alerts but the screen is blank.

Your unit is probably in Dark Mode. Scroll through the menu and uncheck this option. Dark Mode enables you to toggle off the display when driving at night. This reduces glare that you might find distracting.

The speed displayed is incorrect

Scroll through the menu and make sure your speed is displayed in either MPH or KPH, according to your preference.





Scroll through the menu and turn off Dark Mode. This is used for night driving. It darkens the display, but keeps the audio alerts active.

The unit powers up when connected to a PC but not when connected to a cigar lighter socket.

This generally means you have an incorrect database on the unit. It might also be a faulty power lead. If the new database doesn't solve the issue, give us a call on 01483 522 225.

I am getting lots of false alerts when I drive past supermarkets, hospitals or when in built up areas.

Scroll through the menu and make sure you have Radar Smart Mute and Filtering System switched on.

The Drivesmart Guardian keeps telling me I am over the speed limit.

Scroll through the menu and make sure you have Overspeed Setting off.



The speed shown on the Guardian is much faster than my actual speed.

You probably have the speed set to KPH. This can be changed in the settings.

The speed shown on the Guardian is slightly slower than my actual speed.

This is a feature of modern cars which are over calibrated so they cannot be culpable in any speeding offence and to allow for changes in wheel or tyre sizes. There will be some lag in acceleration or braking but at a constant speed, the Guardian will be more accurate. There is a setting in the menu to add a few MPH to the shown speed to level this up should you want to.

All the features and buttons have changed since I performed the latest update.

You have probably updated the unit with the wrong file (loaded the drivesmart Alpha update on the Guardian for example.) Simply re-update with the correct file.

The clock time is wrong by a whole hour or more.

You can change the clock time to adjust for GMT / BST and European time zones. Scroll through the menu and add or remove an hour or more as required.



Types Of Speed Camera

Gatso



The Gatso Speed Camera was introduced to Britain's roads in 1992. Since then it has become the most commonly used camera on our roads. Their yellow colour makes them very easy

to spot, and they are always in a fixed spot, so their locations have been thoroughly mapped on the GPS Database.

Gatso Speed Cameras are rear facing and use radar technology to measure how fast a vehicle is travelling. If the vehicle is travelling above the speed limit, the Gatso camera uses a powerful flash to illuminate the rear of the vehicle, showing the numberplate. The camera will not flash a vehicle from the front, to avoid blinding oncoming motorists.

There are a number of Gatso cameras, up and down the United Kingdom, that are not operational.

So occasionally they do not go off. However, in 2007,the updated Gatso camera was introduced onto the UK's roads.

They are much larger than the original Gatso and are now completely digital. This means they no longer run out of film and require very little maintenance so will be on all the time.





Truvelo cameras are forward facing, the advantage being that the photos taken show the driver, clearly, at the time of the speeding offence.

Truvelo cameras use four piezo sensors, embedded into the road surface, to calculate the passing vehicles speed. As the driver passes over these, the time difference between sensors is used to measure the vehicle speed.

In addition, there are 3 white painted lines approaching the Truvelo camera. When the camera is triggered, it uses an infrared flash (to not blind the driver).

The photo is taken when the vehicle is on the middle of the 3 lines and + / - 10% of the other 2. This acts as a secondary method to calculate the vehicles speed and is a legal requirement for any unmanned speed camera in the UK.

Truvelo cameras are not as common as Gatso cameras in the UK overall, but some county's do favour their usage. Northamptonshire and Hampshire for example.



SPECS

SPECS average speed camera systems combine cutting-edge video technology with ANPR (Automatic Number Plate Reading) digital technology. Each SPECS camera has

infrared illuminators mounted on gantries above the road, allowing it to operate at all hours of the day and night.

SPECS speed cameras are placed in numerous locations (at least two, at least 200 metres apart) along a single stretch of road to track your average speed on that road.

SPECS average speed cameras work and track your speed over a predetermined distance, which could be many miles, unlike conventional fixed speed cameras that capture your speed at a specific place on the road.

Because they are permanent or fixed long term, they are always listed on the Drivesmart GPS speed camera database.



HADECS



One of the newest speed cameras to be put on UK highways is the HADECS 3, which stands for Highway Agency Digital Enforcement Camera System 3.

Because the cameras are compact and painted grey rather than glaring yellow, the Redflex Hadecs3 is being dubbed a "stealth" speed camera by motorists and the media (a colour that has become synonymous with speed cameras since 2003).

As a result, the new REDFLEX hadecs3 camera is difficult to spot on the side of the road or within overhead gantries.

Hadecs 3 cameras installed along the side of the highway automatically adjust to the new enforced speed limit to keep traffic moving during rush hour.

Changes to the enforceable speed limit display are monitored by a pole-mounted external aspect verification (EAV) system situated ahead of the motorway variable message signs (VMS), which signals the camera system to set new enforcing speed limit thresholds accordingly.

HADECS 3 camera locations, for the most part, have all been mapped. Because of this they are all listed on the Drivesmart GPS database.



Mobile Speed Cameras



On UK roadways, there are numerous distinct types of mobile speed cameras. Some of the more prevalent are explained below.

How do mobile radar guns work?

To target a vehicle, handheld radar systems use radio waves. When a vehicle passes by, the radio waves are reflected back to the radar receiver, allowing the handheld radar gun to calculate the vehicle's speed.

The police officer must acquire the speed reading in no less than three seconds. These devices have a 300-yard range.

How do mobile laser guns work?

A small beam of light, roughly 10cm wide, is fired by laser handheld speed camera guns.

This laser beam bounces off the target car and provides a speed reading to the police officer.

Because the speed is shown within 0.5 seconds of use, speed camera detectors will give you no advanced warning that a laser is being used. Laser speed guns have a range of around one mile.

Marked and unmarked Police cars

Although the police have a variety of tools at their disposal for measuring and recording speed, they can also rely on the speedometer on their car. If they



suspect a speeding motorist, they can merely follow him or her for a minimum of 2/10 mile (1056 feet) before pulling the vehicle over and issuing a warning, issuing a Notice of Intended Prosecution (NIP), or considering court action depending on the speed.

A 'follow check' is a sort of speed check that can be conducted by marked or unmarked police cars. Their speedometer, on the other hand, must be properly calibrated and examined on a regular basis.

Traffic light cameras

Traffic light (or'red light') cameras use sensors or ground loops in the road to identify vehicles that pass through the lights, after they've turned red.

When the traffic lights turn red, the system activates, and the camera prepares to capture any vehicle that drives over the trigger.

If a traffic signal has gone red, it is an offence for any portion of your vehicle to cross the white stop line.

Gatsometer manufactures the great majority of red light cameras in the United Kingdom. These Gatso RLC 36 units also have built-in radar technology with dual speed and red light functions, to catch you, if you put your foot down as they start to change.

Red light cameras are always found on the Drivesmart database, so you will get an alert way ahead of time.

