

**GPS**  
**RIDER**  
Global Positioning System

**USER GUIDE**





Description	GPS Rider
Part Number	NOV-07-101
Helpline Number	0845 6590959
Support email address	support@novusgps.com

[www.novusgps.com](http://www.novusgps.com)

# GPS **RIDER**

Global Positioning System

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**We would like to draw specifically to you attention that we will not be liable in any way in respect of:**

- 1 The failure by the user of the speed camera detector to drive safely and in accordance with all road traffic laws and regulations;
- 2 The failure by the user of the speed camera detector to install and use the speed camera detector in accordance without instructions; and
- 3 The speed camera detector failing to warn the driver of mobile speed cameras and/ or fixed speed cameras.

ALL WARRANTIES, CONDITIONS AND OTHER TERMS IMPLIED BY STATUTE OR COMMON LAW (SAVE FOR CONDITIONS IMPLIED BY SECTION 12 OF THE SALE OF GOODS ACT 1979) ARE TO THE FULLEST EXTENT PERMITTED BY LAW EXCLUDED FROM ANY CONTRACT BETWEEN US, PROVIDED THAT NOTHING EXCLUDES OR LIMITS OUR LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY OUR NEGLIGENCE OR FRAUDULENT MISREPRESENTATION.

WE WILL FURTHER NOT BE LIABLE FOR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE (WHETHER FOR LOSS OR BUSINESS OR OTHERWISE) COSTS, EXPENSES OR OTHER CLAIMS FOR CONSEQUENTIAL WHATSOEVER, WHICH ARISE OUT OF OR IN CONNECTION WITH THE USE OF THE SPEED CAMERA DETECTOR.

**What is the warranty covers**

The GPS Rider and GPS Rider Lite Units have 2 years Manufacturer's Warranty. This warrants the hardware will be free from defects in workmanship and materials under normal use for a period of two (2) years from the date that the hardware was purchased. During the warranty period the hardware will be repaired or replaced at the company's choice without charge to you or for either parts or labour.



GPS Rider



USB Cable

### What the warranty does not cover

The warranty does not apply to normal wear and tear, will not apply if the hardware is opened or repaired by person not authorised by us and does not cover repair or replacement of any hardware or part thereof damaged by: misuse, liquids, proximity or exposure to excessive heat and accident, non-compliance with the unit's operation instructions, neglect and misapplication. The warranty does not cover physical damage to the surface of the hardware. If the unit develops a fault due to neglect or accidental damage or the warranty period has expired there may be a charge to repair the unit.

Damage to In-Car Power Leads is also not covered by warranty, Loss of the 2 Amp fuse, spring, or end cap of the In-Car Power Lead is not covered. Care should be taken if checking or replacing the fuse in the In-Car Power Lead. Magnetic Mounts removed from the dashboard may be difficult to re-attach to the dashboard or in another vehicle and will not be covered by warranty. Additional Magnetic Mounts can be purchased as required.

### How to make a warranty claim

If you suspect that a fault has developed on your unit, please read the FAQ page at [www.novusgps.com](http://www.novusgps.com) for information first. If you need additional assistance, please contact us and we will issue an RMA number (Returns Materials Authorisation) allowing the unit to be returned to us for testing or repair.

Important: We cannot accept equipment returned without an RMA number

### Global Positioning System

The Global Positioning System (GPS) provides location and timing information using a satellite-based system.

The system is operated and controlled solely by the Government of the United States of America, who are responsible for it's availability and accuracy. Novus Systems Ltd. cannot accept any liability for changes to GPS accuracy and availability, or in environmental conditions, which may impact upon the operation of your GPS Rider product.



Car Power lead



Magnetic Mount



User Manual

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## Specification

### Rider Unit

Input Voltage: 9V – 24 V dc.  
Current Consumption: 250 mA MAX.  
Speaker Output: 0.3W.  
Operating Temp: -10C - +70C  
Dimensions:  
Weight: 108.5g

### Cigar Lighter Charger

Input Voltage: 9V – 24V  
Capacity: 250V, 2A (Fused)

### GPS Engine

Sirf Star III  
Frequency: L1 (1575.42MHZ)  
Channel: 20 Channels  
Output Format GPS Data: NMEA 0183; RS232, 9600 bps

### Rechargeable Battery

The operating time for the device in Energy Saving Mode gives around 9/10 hours and in Normal Mode it is 5/6 hours. The unit can be charged in the car by the In Car Power Cable or in the house by the USB cable (vehicle: 12V, PC 5V). The time necessary to charge the Rider in the car using 12V is 1 hour and 10 minutes and if using the USB cable (5V) it will take 2 hours and 20 minutes. When charging the unit via the USB cable the device must remain Off to protect the PC from powers surges through the cable.

### Battery LED Warning Lights

#### Red LED:

Warns of low battery, whenever it is necessary to recharge the Rider, the Red LED will illuminate.

#### Orange LED:

When the Rider is charging, the Orange LED illuminates. While charging the unit via a USB cable the device must be turned off.

#### Green LED:

When unit is fully charged the LED will turn green.

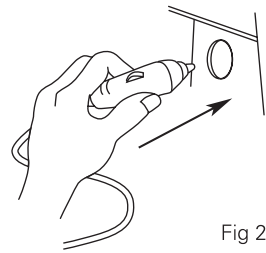
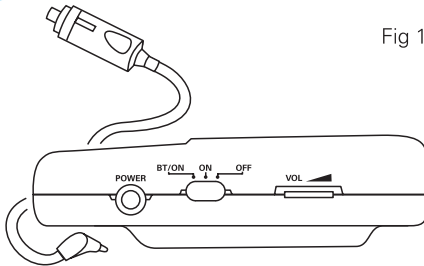
## Installation

The GPS Rider is ready to use out of the box. Simply remove the backing and affix the magnetic mount to the dashboard.

Connect the car power lead (supplied) to the power socket of the GPS Rider. Ensure the power switch is 'ON' (See Fig.1).

Insert the car power lead to the vehicle cigar socket (See Fig.2).

Place the GPS Rider on top of the magnetic mount, the unit will now start.



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INSTALLATION



- 1 Power Switch:  
To turn the unit on, move the switch to "ON".
- 2 Power Socket:  
Plug the In Car Power Cable into this socket to power or charge the unit.
- 3 Volume Control:  
Scroll the wheel up or down to adjust the volume.
- 4 Multifunction LED & Display  
When driving normally the Display shows the current speed of the vehicle. When approaching a "detection zone", the Display and LED's indicate the camera ahead.



5

**5** Menu Button:  
This button displays a range of functions and data on the LED display. Double clicking the menu button will also turn the Display On and Off in Battery Mode.

6

**6** USB Port Socket:  
Plug the USB cable into this socket to download the latest database information from a PC connected to the Internet.

7

**7** Mode Selector:  
This allows the user to select the operating mode.

8

**8** External LED & Headphone Socket.\*  
These sockets allow the user to input headphones and extra LED's into the device.

\* (The LED and headphone function is not included in this unit).

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# Operating Instructions

## 1) Installation and Power

Insert the power connector of the Car power lead into the cigar lighter socket and the mini jack into the Rider unit marked "Power." Or if battery is charged simply turn the switch "ON" and the unit will be running. Please note that when running on battery power the unit is set to Power Saving Mode and the display screen will only appear when an alert is given.

## 2) Mode Selection

NORMAL Mode is the safe driving mod and provides 'reduce speed' warnings when over speed i.e. over the speed limit.

In this mode the unit also gives hourly time checks and two hourly alerts.

CAM Mode is the camera detection mode and will not provide repeated 'reduce speed' warnings in 'mobile zones', safety camera protection zones' and in 'average speed detection zones', i.e. locations where a prolonged warning is given.

D/L is the 'Download' mode, used to update the camera database on the unit.

## 3) Volume Control

The volume of the voice warning and warning tones can be adjusted by the volume control.

## 4) Menu Button

Allows various functions to be displayed. Also allows the user to switch the unit to Power Saving mode by clicking the button twice quickly.

## Voice Announcement and LED Display

Function	Event	Voice Guide	Display	Note
Start Up	External Power ON	Hello System Active	5088	Database version flashes four times
			0208	Display date (Feb -08) FND display on
	Internal Power (Battery) on		8888	DB ver. Date Display ant then display off
Time Check	At every hour	(Display ON) GPS time check at ...0'clock	8000	Time flashes 6 times
		(Display OFF) GPS time check at ...0'clock	8888	No display Only announcement
	At every 2 hours	(Display ON) 2 Hour alert, please consider taking a rest	8000	Time flashes 6 times
		(Display OFF) 2 Hour alert, please consider taking a rest	8888	No display Only announcement
Fixed Speed Camera	(Display OFF mode: When it approach to Camera zone. Display ON and when it pass the camera site. Display OFF)			
	Display On 500 yards from fixed speed camera, and blue LED on.	Warning Speed Camera 500 yards ahead limit.....mph	8888	Speed limit at camera location flashes 4 times. Blue LED On.
	Driving over speed limit with 200 yards to camera position and blue red LED blink	Attention reduce speed now	8888	Display the current driving speed Blue and Red LED blink.
	After passing camera site, Display Off		8888	Current speed Display Off

## Voice Announcement and LED Display

Function	Event	Voice Guide	Display	Note
Mobile speed Camera	(Display OFF mode: When it approach to Camera zone. Display ON and when it pass the camera site. Display OFF)			
	Display On 500 yards from mobile speed camera. and blue LED on.	Warning possible mobile Camera 500 yards ahead limit.....mph		Speed limit at camera location flashes 4 times. Blue LED On.
	Driving over speed limit with 200 yards to camera position and blue red LED blink	Attention reduce speed now		Display the distance to camera position Blue and Red LED blink.
	After passing camera site, Display Off			Current speed Display OFF
SPEC's zone Camera	(Display OFF mode: When it approach to Camera zone. Display ON and when it pass the camera site. Display OFF)			
	Display On At starting point of limit zone camera and Blue LED on.	Warning average speed camera zone limit....mph		Speed limit at camera location flashes 4 times Blue LED on.
	Driving above speed limit. and Red LED on.	Warning reduce speed now		Display the current speed. Red LED on.
Ending point After passing camera site, Display Off			Display the current speed Display OFF.	
Red Light Camera	(Display OFF mode: When it approach to Camera zone. Display ON and when it pass the camera site. Display OFF)			
	Display On 100 yards from red light camera. Red LED on.	Warning Red Light Camera ahead limit....mph		Display On. Display the current speed Red LED on.

## Troubleshooting

If you have any trouble with you unit please contact us on the details below:

Novus Systems Ltd  
Unit 2, Harbourland Business Court  
Boxley Road  
Maidstone  
Kent  
ME14 3DN

Contact No: 0845 6590959

E-mail: [support@novusgps.com](mailto:support@novusgps.com)

### Updating the Database

To update the device with the latest database, you will need to connect the unit to a computer via the USB cable.

Then once that has been achieved follow this link to our website and you will be able to start the download.

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## Caution



1. When using GPS Rider for the first time the unit may require a warm up time approximately up to 15 minutes.



2. Position the GPS Rider system on your vehicle's dashboard with a clear view of the sky through the windscreen.



3. It should be remembered that satellite signals will be lost in tunnels and underground car parks.



4. Remember that it takes a few seconds to re-acquire GPS signals after leaving a tunnel.



5. Avoid splashing unit with water or placing in areas of high humidity or in direct sunlight for long periods of time in the summer.



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