NOVUS ALPHA

USER GUIDE

NOVUS ALPHA

www.novusgps.com

Manufactured under license by: GPS Location and Timing Ltd.
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CONTENTS

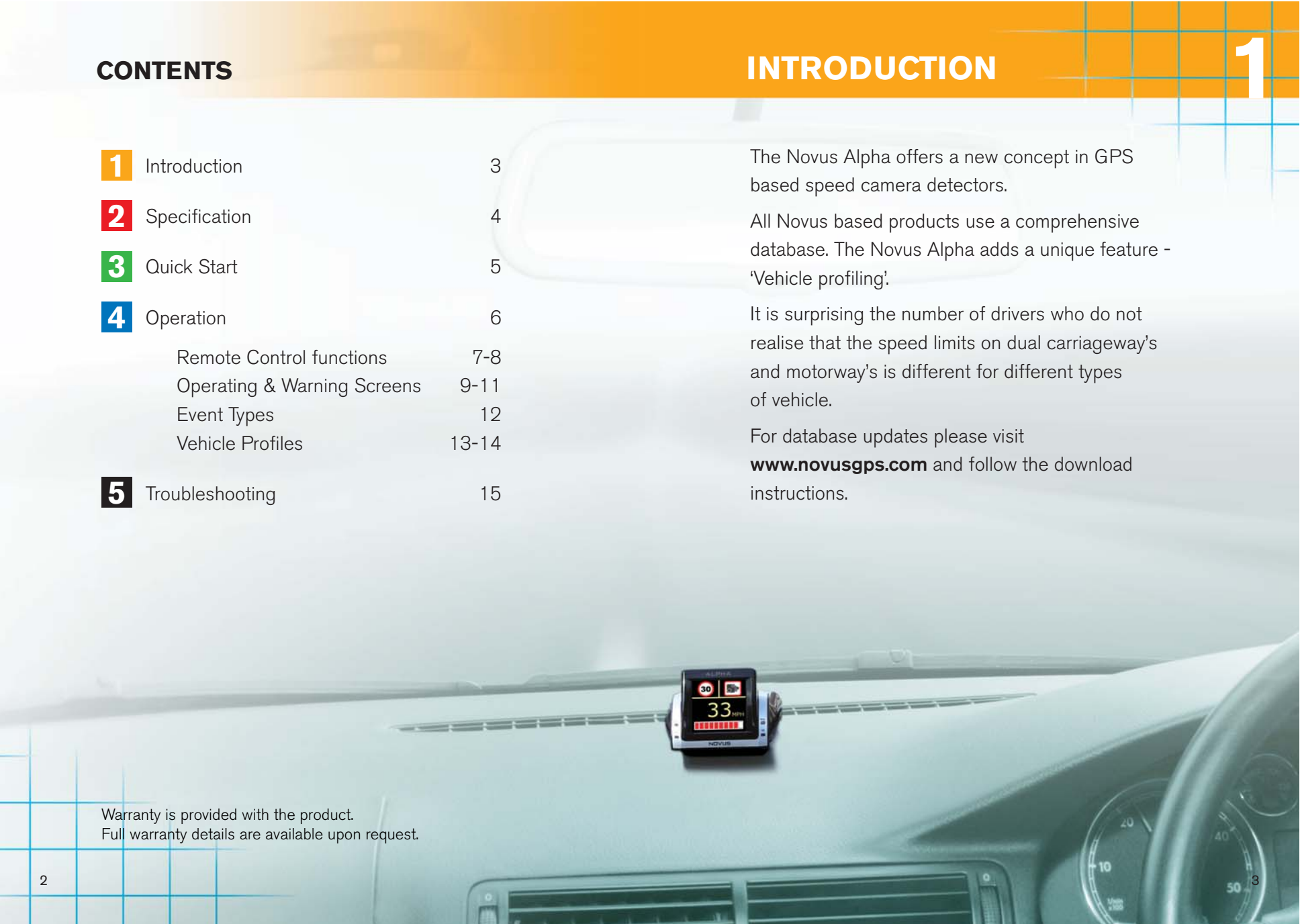
INTRODUCTION 1

The Novus Alpha offers a new concept in GPS based speed camera detectors.

All Novus based products use a comprehensive database. The Novus Alpha adds a unique feature - 'Vehicle profiling'.

It is surprising the number of drivers who do not realise that the speed limits on dual carriageway's and motorway's is different for different types of vehicle.

For database updates please visit **www.novusgps.com** and follow the download instructions.



Warranty is provided with the product.
Full warranty details are available upon request.

2 SPECIFICATION

Specification

Model:	Novus Alpha
Display:	1.5” 65K colour OLED display
GPS:	16 channel Super Sense GPS engine
Port:	USB 2.0 compatible
Operation:	24 key IR remote control
Warning:	Natural voice and colour visual warnings
Volume Control:	7 step
Power:	12v – 24v dc
Consumption:	100mA maximum.

Information

The Novus Alpha is a Speed Camera Alert system that solely uses GPS technology to determine its location.

It does not contain Radar or Laser detection technology.

QUICK START 3

The Novus Alpha 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 Novus Alpha. Ensure the power switch is ‘ON’ (See Fig.1).

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

Place the Novus Alpha on top of the magnetic mount, the unit will now start and acquire GPS signals.

When a valid navigation solution has been calculated the display will show the time (if stationary) or the current speed (if in motion) (See Fig.3).

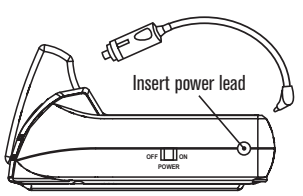


Fig.1 Connect the power lead to the Novus Alpha

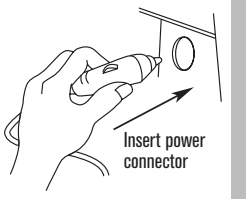


Fig.2
Insert the power lead into the car socket

Fig.3 The Display will show the time or current speed.

4 OPERATION

The Novus Alpha features a wide range of functions which the user can access using the supplied remote control.

Novus Alpha
Remote Control

When powered up the Novus Alpha will automatically start searching for satellites, when it has a valid navigation solution, the unit will display the current time. It is now ready to provide the driver with warnings as they approach camera zones.

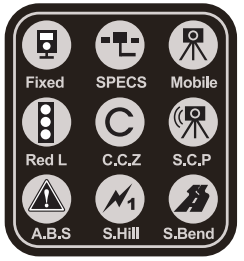
The Novus Alpha will monitor the vehicle position every second and compare this with the camera database that is has stored internally. When the device calculates that the vehicle is approaching a location it is aware of, it will generate an audio/visual warning for the driver.

When the unit has initialised and is ready to use, the display will show the current time (if the vehicle is stationary) or the current speed.

REMOTE CONTROL FUNCTIONS

The user can configure the operation of the Novus Alpha accessing different functions on the remote control keypad.

The arrow keys and enter key highlighted on the remote control allow the user to make a selection within each category.



The user can enable or disable individual groups of warning types.

By default all of the warnings are enabled (ON).

Allows the user to select 12h or 24h clock mode when the time is displayed.

Allows the user to mute all audio warnings.

Toggles the unit between standby and operating mode.

REMOTE CONTROL FUNCTIONS

Demo	Starts a rolling demonstration mode of the unit. This will continue until the button is pressed again, or the power is removed from the unit.
KMH MPH Speed	When the vehicle is in motion the device will show the current speed. The user can select if the speed is displayed in metric or imperial units.
Mode	The device can switch between 'Camera Mode' and 'Safe Driving Mode'. (See page 13).
Vehicle	Used to select the vehicle profile type. (See page 13).
Record.P	The user can record a position in the memory of their unit with this button. The next time they approach this location the unit will generate a warning.
Brightness	Controls the brightness of the screen.
Reset	Resets the configuration of the device back to the factory defaults. WARNING: All stored data will be reset.

IMPORTANT!
The driver should only use the remote control when securely parked and not attempt to configure the device whilst driving.

OPERATING & WARNING SCREENS

Basic Operating screen:

Compass

Current vehicle profile

Speed

Event proximity indicator

The compass will display the direction of travel:

N	North
E	East
S	South
W	West
NE	North East
SE	South East
SW	South West
NW	North West

The vehicle profile will display one of the following icons, depending upon the user setting.


Car and motorcycles


Cars towing caravans or trailers


Bus and coaches


Goods vehicles below 7.5 tonnes


Articulated or towing


Goods vehicles exceeding 7.5 tonnes

Camera Warning screen:

Camera warning below speed limit.

Camera warning exceeding speed limit.

Different warning types:

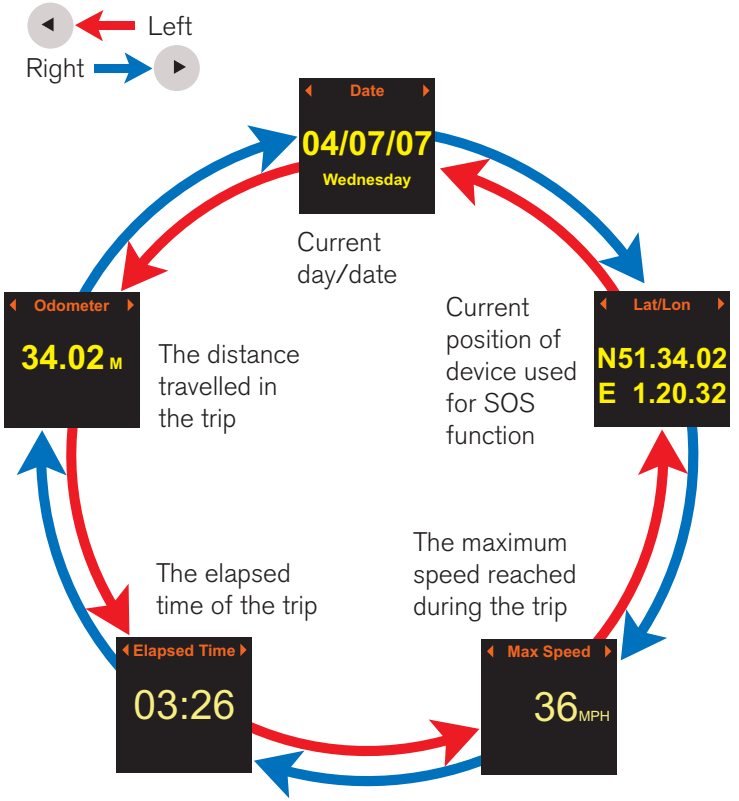
There are various different warning types that the unit can generate, they are:

Fixed Camera		Speed limit 20 mph	20	Speed limit 60 mph	60
Mobile Camera		Speed limit 30 mph	30	Speed limit 70 mph	70
SPECS Camera		Speed limit 40 mph	40	No Speed limit	
Red Light Camera		Speed limit 50 mph	50	Safety Data Icon	!

GPS and Trip Information:

The Novus Alpha provides date, time SOS position, maximum speed, elapsed time and distance travelled for each trip. This data is not retained if the power is removed.

Use the left and right keys to cycle through Trip information.



EVENT TYPES

Event Types:

The Novus Alpha will warn of the following events:

Fixed Cameras	These are all permanent speed enforcement cameras, they may be forward or rear facing. Some cameras can be rotated to enforce in different directions, these cameras will generate a warning if approached from either direction, regardless of the current direction of enforcement.
SPECS Cameras	These cameras measure the time taken for a vehicle to pass between two or more fixed points and then calculate the average speed of the vehicle.
Mobile Cameras	The Novus Alpha does not detect the radar or laser emissions of mobile enforcement equipment, rather it advises the driver as they approach an area where enforcement may take place. The driver is warned of a possible mobile camera ahead.
Red Light Cameras	These cameras are located by traffic lights, and prosecute drivers who cross when the lights are red. In addition some of these cameras enforce speed when the lights are green.
Congestion Charge	The device will warn when the driver crosses the into a congestion charging zone. These warnings are timed and only operate when the zones are active.
S.C.P.Z	Safety Camera Protection Zone, these are generic warnings that the device generates to advise drivers to be aware that there may be a hazard ahead that is yet to be categorised.
A.B.S	Accident Black Spot, these are warnings generated in advance of areas with increased incidents of accidents occurring.
Steep Hill	Steep Hill warnings are given as the driver approaches a steep hill.
Sharp Bend	Sharp Bend warnings are given as the driver approaches a sharp bend.

VEHICLE PROFILES

Vehicle profiles

The vehicle profiles feature enables the device to adjust the speed limit announcement according the type of vehicle that is being driven. When the unit is first switched on it will announce the current active vehicle profile and show an icon on the basic operating screen.

Example of operation:

A mobile camera can be enforcing a section of dual carriage way where the speed limit is posted as 60 mph.

If the profile is set to 'Car' (the default value) then the Novus will warn: ***'Warning possible mobile camera ahead, limit 60 miles per hour'.***

If the profile is set to ***'Goods vehicle exceeding 7.5 Tonnes'*** then the Novus will warn: ***'Warning possible mobile camera ahead, limit 50 miles per hour'.***

Safe Driving Mode/Camera Mode

Safe Driving Mode will warn the driver as they approach all types of warning events, all camera types and all safety features.

It will also announce the time at the top of the hour and ask the driver to consider taking a rest every two hours.

Camera Mode will warn the driver of all types of camera, however after an initial warning, it will not generate warnings to reduce speed if the driver is in a mobile enforcement zone. In addition the device will not warn of safety features, announce the time at the top of the hour or ask the driver to consider taking a rest every two hours.

UK Speed limits for road and vehicle type

	Built up Area	Single Carriageway	Dual Carriageway	Motorway
Type of Vehicle	MPH	MPH	MPH	MPH
Car and Motorcycle Includes car derived vans up to 2 Tonnes	30	60	70	70
Car towing Includes car derived vans and motorcycles	30	50	60	60
Buses & Coaches Not exceeding an overall length of 12m	30	50	60	70
Goods Vehicles Not exceeding 7.5 Tonnes maximum laden weight	30	50	60	70*
Goods Vehicles Exceeding 7.5 Tonnes laden weight	30	40	50	60
*60 mph if the vehicle is articulated or towing a trailer				

With Novus Alpha drivers can be advised of the correct speed limit warning, adjusted for the category of vehicle being driven.

IMPORTANT!
Warnings provided by the Novus Alpha are for information only. The speed limit of the road takes priority over the information provided by the Novus Alpha. The driver takes full responsibility for the speed of their vehicle.

Q. The Novus Alpha does not switch on

A. Check the in-car power lead is plugged into the cigar lighter fully, check the fuse in the cable, check the position of the switch on the right hand side of the unit is in the 'on' position and check the unit is not in standby. (Press the power button on the remote control).

Q. The unit takes a long time to show my speed

A. When first used the device needs to collect information about the GPS satellites, this can take up to 20 minutes. This time can be extended significantly if the vehicle is in motion.

Q. The speed on the device is different to my vehicle speedometer

A. It is quite normal for GPS based equipment to show a lower speed to the vehicle speedometer. This can be as much as 10%.

Q. The warnings generated by my unit are the wrong speed

A. This may be due to the selected vehicle profile. The speed should be correct if the device is set to 'Car' profile, other profile selections may generate a different warning, depending upon the type of vehicle selected and the road type. (See Page 14 for more information).