



GPS Speed Alert

with Integrated Precision GPS

Hummingbird Electronics' enhanced GPS Speed Alert provides drivers with an accurate, highly visible, fast response digital speedometer and over-speed alert in a small, easy to mount unit.

The GPS Speed Alert requires no installation or calibration and is simply connected to the vehicle through a cigarette lighter power plug.

Powerful Performance

The GPS Speed Alert uses satellites to calculate 3-dimensional speed and heading independently of the vehicle. No calibration is required for the unit to display accurate speed in kilometres or miles per hour.

The user can choose between 3 displays to show speed only, speed and heading or speed heading, position and battery voltage.



The unit contains an internal antenna and the the only electrical connection required is via a cigarette lighter plug that can be used in 12V or 24V vehicles.

Speed is displayed on a colour screen; the colour changes from green to red as the user-settable speed-threshold is exceeded. A user selectable buzzer can also be enabled to sound as an over-speed warning. The speed-threshold can be set by the user by pressing the up or down arrows on the keypad. To change the speed unit or to enable or disable the buzzer, the menu key in conjunction with an on-screen menu is used.



The unit is mounted with a flexible windscreen-mount, but can also be attached using any standard camera mount including those available from RAM.



Features

- GPS Speed independent of vehicle
- Optional buzzer for over speed warning
- Changes colour for over speed warning
- Multi-voltage 9-36VDC
- Limit adjustable from 1-199km/h
- Internal GPS antenna
- Cigarette lighter connection
- Precision 1km/h
- Speed in km/h, mph or knots
- Low current draw
- Voltage monitoring of battery
- Fast update rate



Technical Specifications and Ordering Information

Part number	HMSA3000
Mounting system	Windscreen suction (supplied) or other camera mount
Input voltage	Minimum 9V; maximum 36V
Power consumption (W)	Maximum 1.2W (100mA @ 12V; 50mA @ 24V)
Dimensions (mm)	70mm (width), 50mm (height), 18mm (depth)
Acquisition time, power-up	Less than 38s (50% of the time), less than 42s (90% of the time)
Resolution	Distance: 1unit (meter, ft), speed: 1unit (km/h, mi/h)
Cable length	Power cable provided with 1.5m cable



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Configuration

The GPS Speed Alert can be configured using the three buttons on the keypad.



Up - press up to increment the current speed limit.

Enter - press enter to access the configuration menu.

Down - press down to decrement the current speed limit.

Configuration menu

Once the configuration menu has been accessed by pressing the **enter** button, a list of menu items will be shown. Press **down** to access the next menu option or **up** to access the previous one. Press **enter** to select an option. To exit the menu, select the exit icon and press **enter**.

Mode

Select mode to change between 3 display types (basic, detailed and compass). Press the **up/down** keys to select the mode and **enter** to select it.

Units

Select between kilometres per hour, miles per hour or knots. Press the **up/down** keys to select the unit and **enter** to select it.

Limit

Set the speed limit. Press the **up/down** keys to change the limit and **enter** to select it. The limit can also be changed from the main display by pressing the up/down keys.

Step

Change the increment by which the limit is modified, when the **up/down** keys are pressed. Press **enter** to select a value.

Buzzer

Change the buzzer operation during over-speed events. Use the **up/down** key to change between continuous sound, one beep per second, a single beep or to disable the buzzer. Press **enter** to select to select an option.

Latch

Set the latch time if you would like the buzzer to continue to sound for a while after the over-speed event has passed. Use the **up/down** buttons to set the latch time and **enter** to select a value.

Time

The GPS automatically calculates UTC time. Use the **up/down** buttons to set your offset to UTC. If you are in a zone with daylight savings, you may need to change this at each daylight saving boundary. Press **enter** to select a value.

Brightness

Use this function to set the brightness of the display. Use the **up/down** buttons to set a fixed brightness or select auto if you would like the speed-alert to auto dim as the sun sets. Press **enter** to select a value.

Password

Enable a password if you would like to lock-out the menu and fix the speed-limit. Use the **up/down** buttons to toggle between enabling or disabling the password. When first enabled, you will be asked to specify a password. **PLEASE BE CAREFUL WHEN USING THIS FUNCTION AS IT WILL LOCK OUT THE MENU UNLESS YOU KNOW THE PASSWORD!**

Exit

Press **enter** to exit the menu and return to your chosen display.