GPS SPEED ALERT

WITH INTEGRATED PRECISION GPS

HMSA3000 | HMSA3300 | HMSA3500

AUSTRALIAN MADE

Hummingbird
Electronics

CONTENTS

OVERVIEW

The GPS Speed Alert is an accurate digital speedometer with over-speed alert.

It uses satellites to calculate 3-dimensional speed and heading independently of the vehicle. No user calibration is needed; your speed of travel is automatically displayed with no input required.

The unit contains an internal antenna, so the only electrical connection is via a vehicle accessory connector that can be used in 12 V or 24 V vehicles.

WARNINGS AND SAFETY INFORMATION

SAVE THESE INSTRUCTIONS — this manual contains important safety instructions. Do not operate the device unless you have read and understood this manual.

DISCLAIMER: Hummingbird Electronics accepts no liability for any injury, loss or property damage which may occur from the improper or unsafe installation or use of its products.

> ### ⚠ CAUTION:
> - Do not mount the device where it may obstruct the drivers field of vision.
> - Always observe local laws pertaining to the installation and operation of accessories in a vehicle.
> - The GPS Speed Alert does not update to reflect the current local speed limit. It will only alert you when your speed exceeds the value set via **Menu ▶ Limit**.

KIT CONTENTS

1.8" DISPLAY
with 12 V accessory plug
(cig socket plug)

WINDSCREEN MOUNT

(Included with
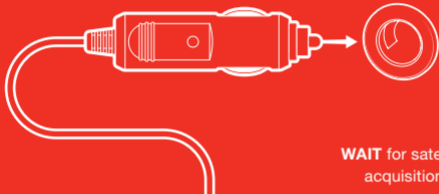HMSA3000)

BRACKET MOUNT

(Included with
HMSA3300)

RAM™ MOUNT

(Included with
HMSA3500)

QUICK START

PLUG into powered vehicle accessory socket

(1)

WAIT for satellite acquisition

(2)

(3)

GO
Begin travelling

CONTROLS

The GPS Speed Alert can be configured via the Menu using the three buttons on the Display.

Press ⏎ to access the Menu, then press ⬆/⬇ to navigate the Menu options. Press ⏎ to select an option. To return to the Home Screen, select "**Exit**" from the Menu and press ⏎.

UP/DOWN — Press from the Home Screen to increase/decrease the current speed limit. Note, the speed limit can be adjusted even if using a Display Mode that does not display the Speed Limit.
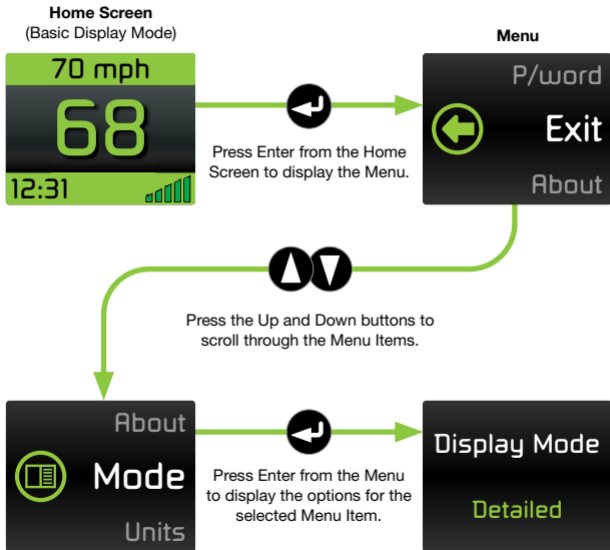
Press from within the Menu to navigate the settings.

ENTER — Press from the Home Screen to open the main Menu. Press from the Menu to accept the selected Option.

MENU NAVIGATION

Home Screen
(Basic Display Mode)

70 mph

68

12:31

Press Enter from the Home
Screen to display the Menu.

Menu

P/word

Exit

About

Press the Up and Down buttons to
scroll through the Menu Items.

About

Mode

Units

Press Enter from the Menu
to display the options for the
selected Menu Item.

Display Mode

Detailed

HOME SCREEN GUIDE

1 **SPEED LIMIT —** The current user-defined speed limit. To change the Speed Limit, press **⬆/⬇** from the Home Screen, or via **Menu ▶ Limit**.

2 **CURRENT SPEED —** The current speed of travel.

3 **COORDINATES —** Your current GPS Coordinates.

4 **TIME —** The current UTC time. To suit your time-zone, change the UTC Offset via **Menu ▶ Time**.
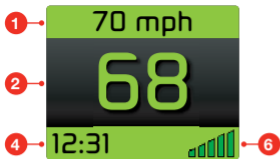
5 **DIRECTION OF TRAVEL (HEADING) —** The current direction of travel relative to north.

6 **GPS SIGNAL QUALITY —** Indicates the quality of the GPS signal based on the number of satellites being tracked.
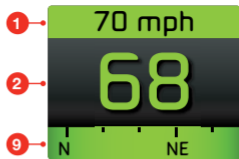
7 **SYSTEM VOLTAGE —** The current system voltage.

8 **MAX SPEED PER TRIP —** Shows the maximum speed logged during the current trip. Resets to zero each time the Display is powered on.
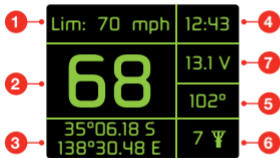
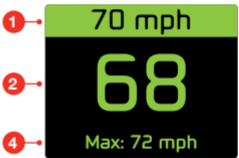**9** **COMPASS —** Indicates the direction of travel relative to north.

Display Mode: Basic

Display Mode: Compass

Display Mode: Detailed

Display Mode: Statistics

Display Mode: Heading

MENU GUIDE

EXIT — Select to exit the Menu and return to the Home Screen.

ABOUT — View compliance information.

MODE (DISPLAY MODE) — Select a Home Screen layout; Basic, Compass, Detailed, Statistics, and Heading.

UNITS (DISPLAY UNITS) — Select the units of measure for speed that will be displayed on the Home Screen. Select between km/h (kilometres per hour), mph (miles per hour) or knots.

LIMIT (SPEED LIMIT) — Set the Speed Limit between 0 and 200. The Limit can also be set directly from the Home Screen by pressing ⬈/⬊.

STEP (LIMIT STEP) — Change the increment by which the Speed Limit is increased/decreased. The Limit can be adjusted in increments of 1, 2, 5, and 10.

BUZZER (BUZZER MODE) — Change the buzzer operation during over-speed events. Select from Disabled, Beep Continuously, Beep Once per Second and Beep Once.

LATCH (LATCH TIME) — Set the Latch time if you would like the buzzer to continue to sound for a while after the over-speed event has ended. Select from 0.0 to 10.0 seconds in increments of 0.5 seconds.

TIME (UTC OFFSET) — UTC time is automatically calculated, however if you are in a zone with daylight savings, you may need to change this at each daylight saving boundary. Select from −12:00 to +14:00.

BRIGHTNESS (BRIGHT.) — Adjusts the brightness of the Display. Press ⬆/⬇ to set a fixed brightness level between 1 (dimmest) and 10 (brightest), or select Auto. In Auto, the Display will automatically reduce in brightness in low-light conditions.

P/WORD (PASSWORD) — Set or Disable a password that locks-out the Menu and fixes the Speed Limit. When first Enabled, you will be asked to specify a password. **NOTE! Be careful when using this function as it will lock out the menu unless you know the password!**

SET THE PASSWORD

1. From the Home Screen, press ⏎ to open the menu.

2. Navigate to "**P/word**" then press ⏎.

3. Press ⬆/⬇ to select "**Enabled**", then press ⏎.

4. Enter the new password by pressing ⬆/⬇ to change the number, then press ⏎ to move to the next field.

5. Once all fields are completed, press ⏎ again to accept the password and return to the menu.

NOTE! Be careful when using this function as it will lock out the menu unless you know the password!

TROUBLESHOOTING

Unit does not power on

Make sure the cable is firmly connected to the vehicle accessory socket, and that the cable is in good condition. If it appears to be OK, see if the socket is faulty by testing the device in another vehicle.

Speed is inaccurate

Make sure you have set the correct Units; mph, kph, or knots.

Cannot acquire a GPS/satellite signal

- Make sure the device is mounted where it has a clear view of the sky.
- If your windshield has a film or coating that reduces GPS signals (such as a solar film), move the device to a section of window that does not have film coating.
- Make sure you are not surrounded by tall buildings, and are not in a tunnel or underground carpark/parking lot.

The suction cup does not stay on the windshield (HMSA3000 only)

Make sure both the suction cup and the windshield mounting surface are clean.

SETTINGS

Display Mode (Mode)	Basic, Compass, Detailed, Statistics, Heading
Display Units (Units)	mph (DP), mph, km/h (DP), km/h, knots (DP), knots
Speed Limit (Limit)	0 to 200 (in set display units)
Limit Step (Step)	1, 2, 5, 10 (in set display units)
Buzzer Mode (Buzzer)	Beep Once per Second, Beep Once, Disabled, Beep Continuously
Latch Time (Latch)	0.0 s to 10.0 s (in 0.5 s increments)
UTC Offset (Time)	UTC −12:00 to UTC +14:00
Brightness (Bright.)	1 to 10, Auto
Password (P/word)	Disabled, Enabled

TECHNICAL SPECIFICATIONS

Part Number	HMSA3000, HMSA3300, HMSA3500
Mounting system	HMSA3000: Windscreen Mount HMSA3300: Bracket Mount HMSA3500: RAM™ Mount with 2" Arm
Supply voltage	9 to 36 VDC
Power consumption	1.2 W (100 mA @ 12 V; 50 mA @ 24 V)
Dimensions — display (W × H × D)	70 × 50 × 18 mm / 2.8" × 2.0" × 0.7"
Dimensions — cable length	2 m (6'6")
Weight	178 g (6.3 oz)
Display	1.8" Colour LCD (160 × 128 pixels)
Antenna	Internal
Satellite acquisition time on power-up	< 38 s (50% of the time) < 42 s (90% of the time)
Resolution — distance	1 unit (meter, ft)
Resolution — speed	1 unit (km/h, mi/h, knots)
Speed range	1 to 199 km/h (0.6 to 123.65 mi/h)
Operating temperature range	−20°C to +70°C (−4°F to +158°F)
Storage temperature range	−30°C to +80°C (−22°F to +176°F)

FCC DECLARATION

This devices complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

WARRANTY

For full warranty terms and conditions, visit the Warranty page of the REDARC website at **www.redarcelectronics.com/warranty**.

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