

## **Hema HX-1 Navigator - eGuide**

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# HEMA NAVIGATOR HX-1

PREMIUM ON AND OFF ROAD GPS NAVIGATION



USER MANUAL (eGuide)

Version: 1.3.4 (July,2018)





# How to use this eGuide

This eGuide is published in a number of different formats.

Depending on the platform you are viewing it on, it may look a little different, but the content is the same whether you are viewing it on the web, or on the **HX-1** itself.

The controls for accessing different functions within the eGuide are more or less the same whichever platform you are viewing on.

Use the on-screen buttons to access the following parts of the eGuide.



Access the Table of Contents (TOC)



Access the Glossary of terms related to GPS use



Access the document Index (an index may or may not be present)



Access the Search function. Search the eGuide using specified key words.



Access the Filter function. Filtering allows you to restrict the view of the eGuide using specific terms.



If you have switched on filtering, it will change which topics you see in the TOC, and you will see the icon above which indicates that you have filtering on. Tap the icon to switch any active filters off again.

## Accessing this eGuide on the HX-1



Tap the Help button on the Home screen of the **HX-1** to open the eGuide.

## Accessing the eGuide via a web browser

Open your web browser, and access the following URL:

[http://help.hema-labs.com/HX-1\\_Guide/](http://help.hema-labs.com/HX-1_Guide/)

# Safety Notes and Maintenance

## Introduction

This section of the User Manual contains some general information and recommendations related to the use of your **Hema HX-1 Navigator**.

## Operating Environment

### External Influences

- Do not allow objects to drop onto the device from above
- Do not place objects on top of the device or rub the screen with abrasive materials or objects such as car keys etc.
- Do not drop the device
- Do not use sharp or abrasive objects to operate the touch screen - use your finger, or a stylus suited specifically to capacitive touch screens.
- Avoid prolonged use in high vibration and high shock environments
- Do not carry/transport flammable liquids, gases or explosives in the same compartment as the device and its accessories
- Wireless devices can interfere with the reception of satellite signals causing unstable signal reception
- Some car audio systems can cause interference with the device

### GPS

- This system uses GPS signals produced and monitored by the United States government, who are solely responsible for the availability and accuracy of the system.
- GPS satellite signals do not penetrate solid objects (apart from glass) and, therefore will not operate from within a building unless an external re-radiating GPS antenna is fitted.
- GPS signal reception may be impaired by dense obstacles above the ground, such as tall buildings, trees, or extremely bad weather.
- In order to operate efficiently, the **Hema HX-1 Navigator** should be positioned with a view to the open sky (through glass is acceptable).
- Glass with a metallic film, as fitted on some vehicles, may impair the GPS signal. An external automotive re-radiating GPS antenna may be required.

## Temperature

Do not leave your **HX-1** lying or mounted on your dashboard where it will be exposed to extreme temperature conditions which can result in malfunctions and / or dangerous situations. The device may be operated or stored in a temperature range of 0°C to 60°C.

If you are stopping for more than 10 minutes or so, it would be advisable to remove the **HX-1** from the dash, where temperatures can rise rapidly to excessive levels.

Leaving the unit on the dash of the vehicle parked where the dash is, or will be in full sun in an enclosed vehicle will almost definitely lead to excessive temperatures.

### Important!

The **HX-1** contains a temperature sensor as a safety feature to avoid damage due to excessive temperatures.

The unit WILL shut down automatically if it detects an over temperature situation

- Keep the device away from moisture and excessive dust. The device should be used in an atmospheric humidity (non-condensed) of 45% to 80% and stored in an atmospheric humidity of 30% to 90%.
- Do not expose the device to sudden and extreme temperature fluctuations. This may result in condensation forming within the device causing malfunction or failure. When condensation forms, wait for the device to completely dry out before operating.

### Temperature related Tips!

1. If the charger is connected to the **HX-1**, and the device is charging, it will heat up faster. If the device has shutdown due to an over-temperature event, removing the charger will help it to cool down faster, so it will return to normal operation sooner.
2. The **HX-1** automatically powers up when connected to the charger. If the unit detects an over-temperature event and shuts down, it will immediately attempt to power up again. The temperature sensor will then cut in again, and close the unit down before it can fully start up.

So, if the charger is connected and the unit shuts down due to over temperature, it can enter a startup loop.

In this case, disconnecting the charger will:

- A. interrupt the startup loop
- B. allow the unit to cool down faster

### Safety while Operating the Device

#### Important!

Failure to adhere to the following guidelines may result in potentially hazardous situations and may result in serious injury or even death.

- Do not operate / interact with the device while you are driving.
- National road traffic regulations and local traffic conditions always take precedence over the instructions given by any navigation device.
- Do not install the navigation device in such a manner as to obstruct the driver's view of the road or interfere with the operation of a vehicle's controls or safety features such as air bag systems. Check your region's regulations for any specific requirements, and follow the required guidelines.
- Use voice prompts while driving in order to minimise the time spent looking at the device. Do not become distracted by the device while driving.
- The route calculated by the navigation device is a suggested route and should be used for reference and guidance only. It is not a substitute for alert driver behaviour and common sense. Drivers must continue to pay attention to all road regulations and hazards regardless of instructions from the navigation device.

## Safety While Travelling

The **Hema HX-1 Navigator** is a valuable aid for navigation. It should not be used as a replacement for hard-copy maps and other traditional navigational aids while travelling, especially in remote areas. Always ensure that you have adequate backup systems in place to ensure your personal safety.

Local conditions can change rapidly, therefore it is recommended to seek advice from local authorities and pay attention to road signs, particularly where those signs advise of serious hazards, such as local flooding, damaged bridges, etc .

## Battery

This product uses a re-chargeable Lithium-Polymer battery which is not user serviceable and not user replaceable. Failing to adhere to these guidelines may reduce the life expectancy of the battery or present the risk of electrolyte leak, explosion and fire resulting in chemical burn, damage and/or injury.

- Disconnect the device when it is fully charged (The RED charging LED turns BLUE when the device is close to fully charged). Charging while connected to a PC USB port will take significantly longer than if the device is charged using the supplied in-vehicle charger. This is due to the low-power output of the majority of PC USB ports.
- Before storage, partially charge the battery to approximately 50% capacity.
- Lithium-polymer batteries do not need to be fully charged. A partial charge will generally extend the useful life of your battery, but results in reduced running time from that charge.
- Only use the original 12/24V car adapter supplied with the **Hema HX-1 Navigator**. Use of nonstandard parts or accessories may result in malfunctions and / or severely damage the device and may void your warranty.
- Do not expose the device to a damp, wet or corrosive environment.
- Do not expose the device to excessive pressures, heat sources, high temperatures, or extreme sunlight conditions, such as an unattended vehicle on a hot day.
- Do not expose the device to operating temperatures outside of the recommended range of 0°C to 60°C and storage temperatures outside of the recommended range of -20°C to 60°C.
- There are no user serviceable parts in the device. Do not open the device. Do not pierce, open or dismantle the battery. If the battery leaks and you come into contact with the liquid, thoroughly rinse the contaminated area with water. Seek medical attention if you suffer any continued symptoms where the liquid has come into contact with your skin.

## Cleaning the Unit

The **Hema HX-1 Navigator** casing can be cleaned using a cloth slightly dampened with water and a mild detergent and then wiped dry. Care must be taken not to let moisture into the speaker holes or any of the ports, jacks and slots on the device.

- The touch screen may be cleaned using lint free or micro fibre cloths.
- Isopropyl alcohol or water may be applied to the cloth where required to gently wipe the touch screen only.
- Do not use harsh or abrasive cloths and avoid the use of chemical cleaners or solvents as these can damage the **Navigator**.

## Avoiding Theft

To avoid theft, remove the **Navigator** and mount from sight when not in use. Remove the residue left on the windscreen by the suction mount.

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# Quick Start

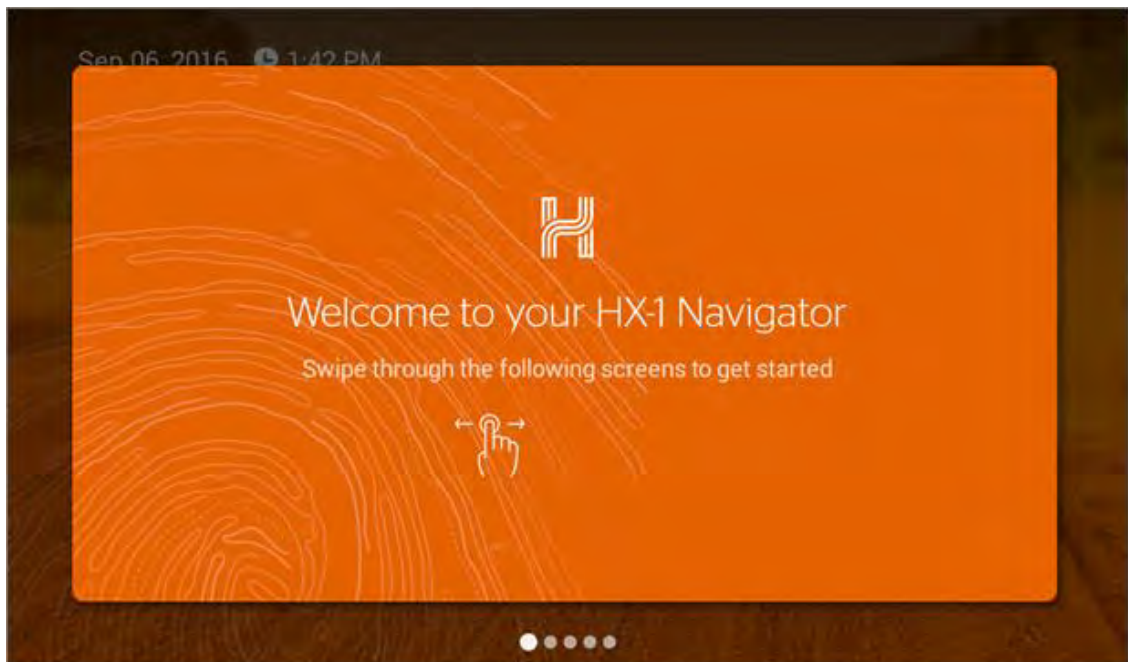
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The first time you start your **HX-1** up, it will prompt you for some information in a sequence of steps.

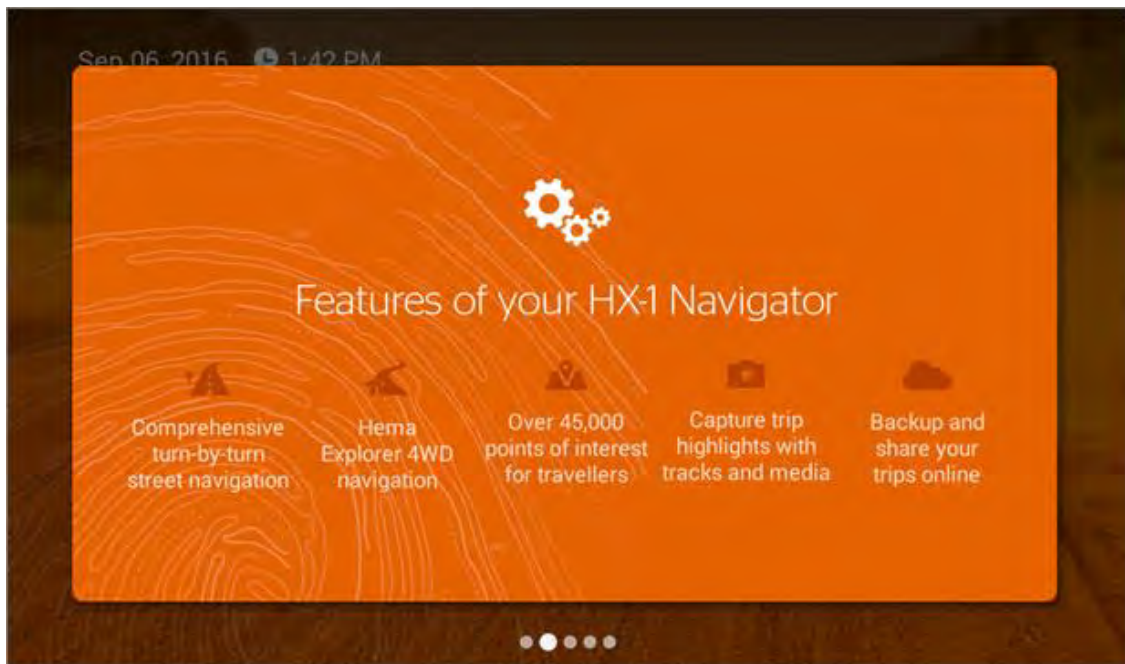
This process is also known as *Quick Start* or *onboarding*.

The purpose of the *Quick Start* is to gather some important information, and get your **HX-1** ready for you to use.

As shown on the first screen, you simply swipe from right to left to progress through the different steps of the *Quick Start* process.



The second screen shows an overview of the features of the **HX-1**.



The third screen shows some useful information regarding the **Navigation Button**.

The Navigation button and corresponding NAV panel are described in some detail in the [Nav Panel section](#) of this eGuide.



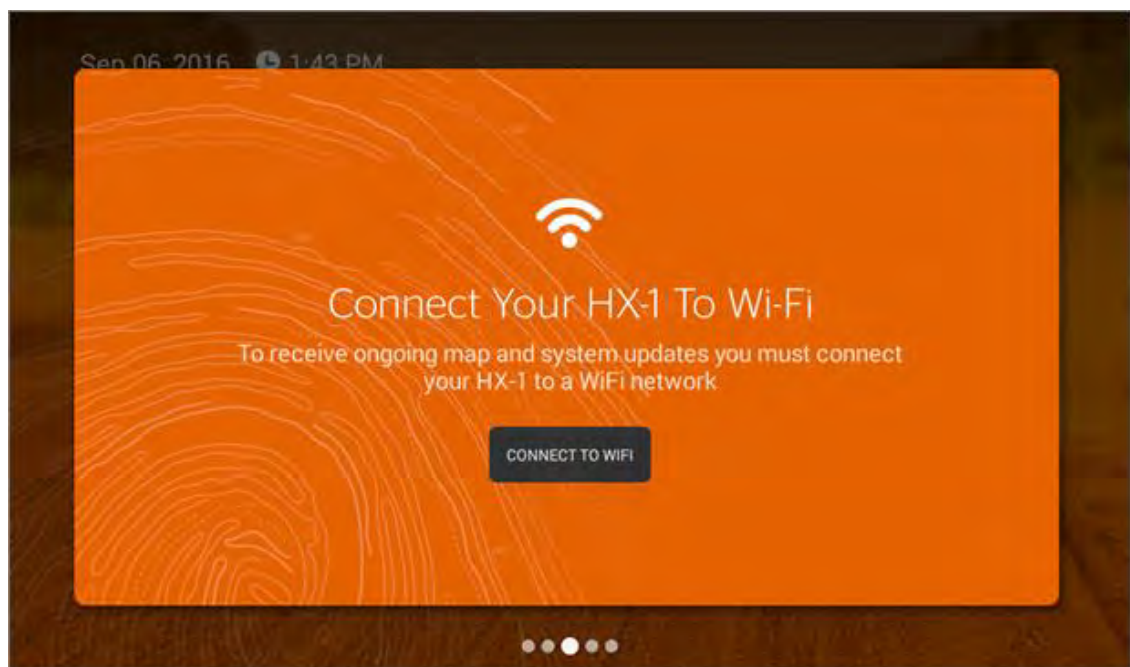
## Connecting to a WiFi network

The third step is quite important, and prompts you to connect to a WiFi network for initial configuration.

Connecting to a WiFi network is important, as it will allow the **HX-1** to connect to the update server, and download any important updates.

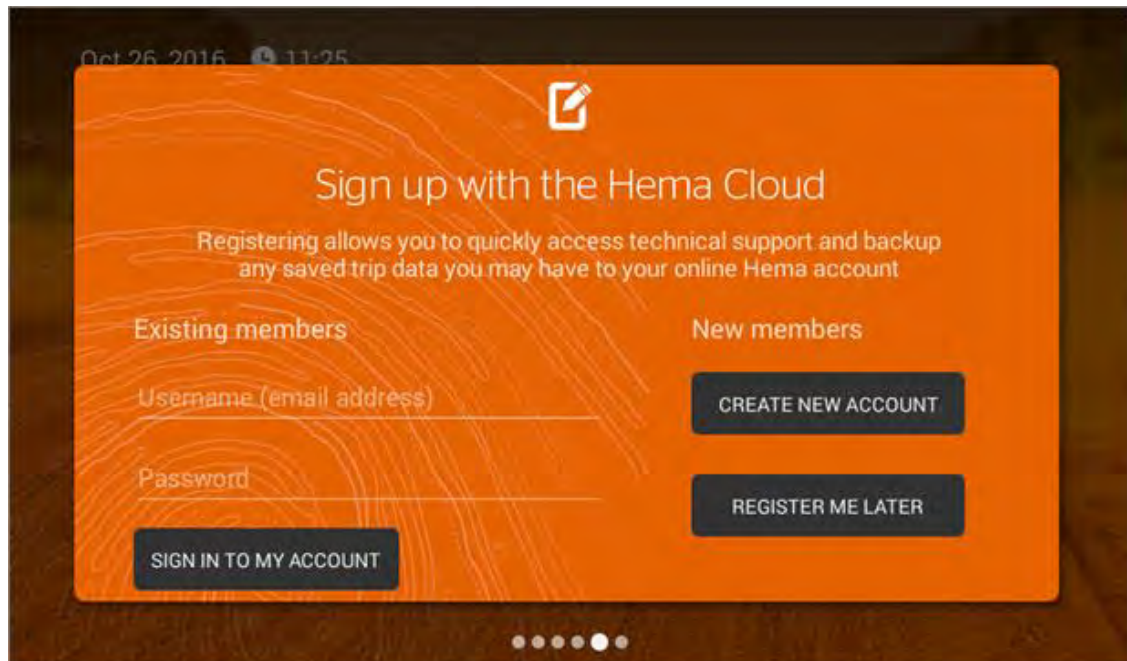
Tap the **CONNECT TO WIFI button** to enter the WiFi Settings screen.

See the [WiFi Settings section](#) of this eGuide for details on configuring a WiFi connection.



## Creating and / or Signing into your Hema Cloud account

The next step is to provide information to allow registration of your device, and provide synchronisation of your **Explore Mode** data to the Hema Cloud.



You have three options here:

SIGN IN TO MY ACCOUNT

Allows you to sign in to your existing Hema Cloud account. You might already have a Cloud account if you have previously used the Hema Explorer app on Apple or Android platforms, or the [Cloud website](#) directly. Your **HX-1** will be linked to that existing Hema Cloud account.

CREATE NEW ACCOUNT

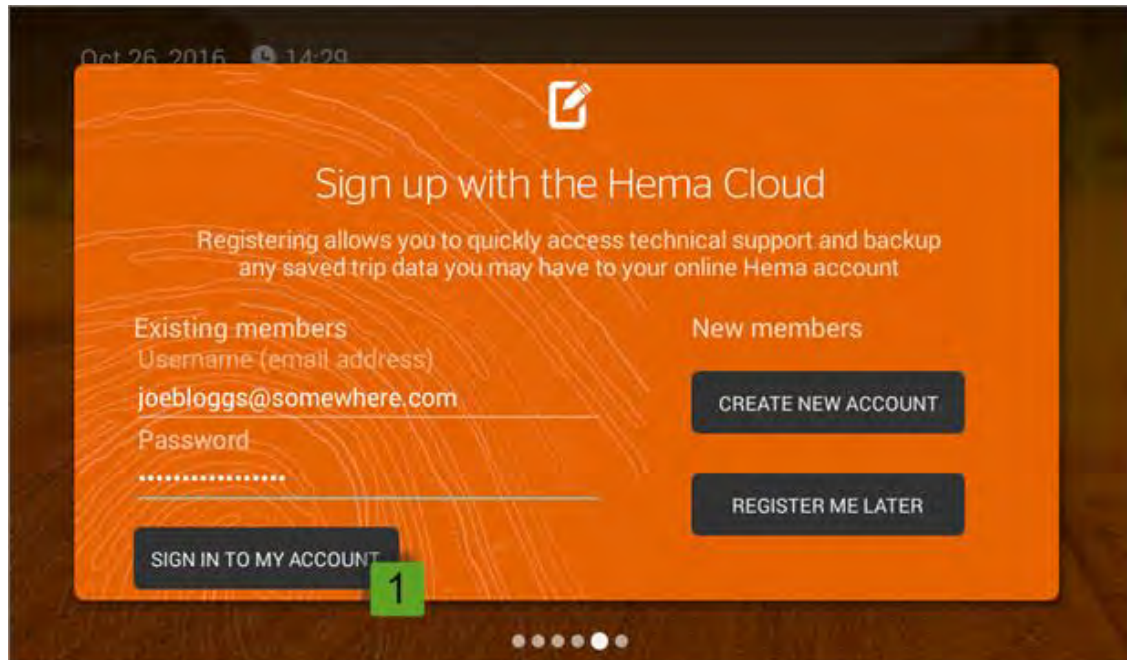
Allows you to create a new account and register your **HX-1** to that account.

REGISTER ME LATER

Allows you to cancel out of the registration process if you prefer to do it later.

## Signing in to an existing Hema Cloud account

You can sign in with your existing username and password if you have already created an account. Just enter your username and password, and then tap the **SIGN IN TO MY ACCOUNT button** (shown at **1** below).





## Creating a new Hema Cloud account

If you do not already have an account, tap the **CREATE NEW ACCOUNT** button to create an account.

Oct 07 2016 15:03

### Create new account

Access online support and share your adventures

First Name \*

Last Name \*

Email Address (Login Username) \*

Password (Login Password) \*

Confirm Password \*

Postal Address

Age group \* ☐ Under 25 ☐ 25 - 39 ☒ 40 - 54 ☐ 55 - 65 ☐ Over 65

Main interest \* ☐ Caravaning ☒ 4WDDriving ☐ Other

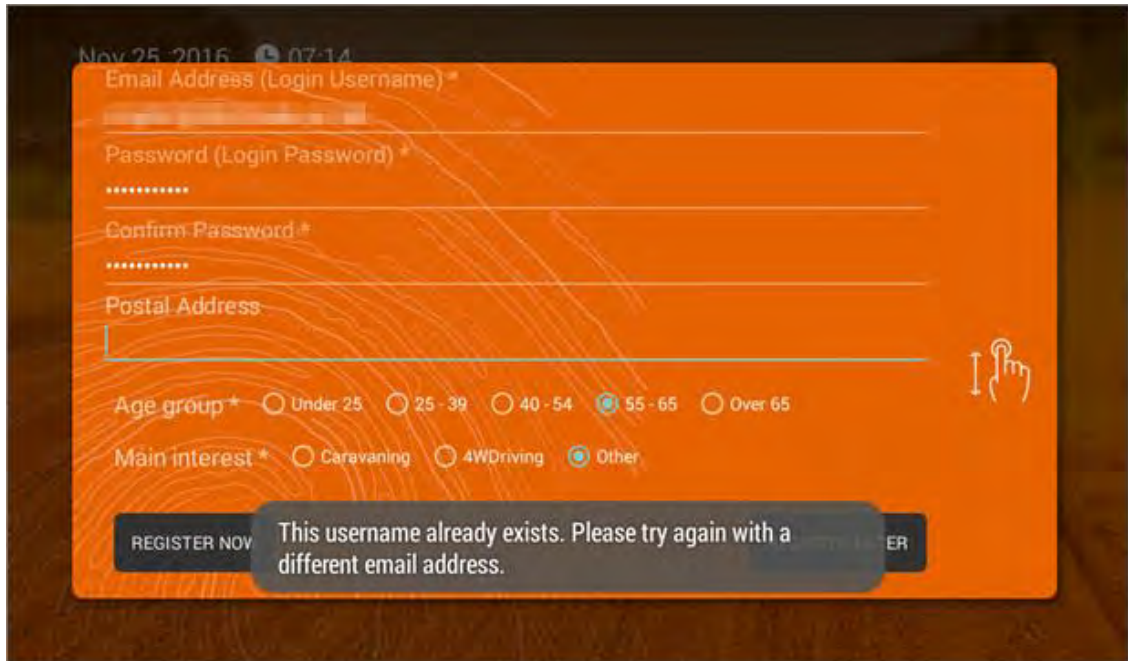
**REGISTER NOW** **REGISTER LATER**

Enter the required details, and then tap the **REGISTER NOW** button to create your account.

If you try to register, and you see the message

**This username already exists. Please try again with a different email address.**

as shown below, it means that the account you are trying to use exists. As long as the account is the one you want to use, tap the REGISTER LATER button, re-run *Quick Start*, and **sign into your existing account** using the **SIGN IN TO MY ACCOUNT** button.



Nov 25, 2016 07:14

Email Address (Login Username) \*

Password (Login Password) \*

Confirm Password \*

Postal Address

Age group \* ☐ Under 25 ☐ 25 - 39 ☐ 40 - 54 ☒ 55 - 65 ☐ Over 65

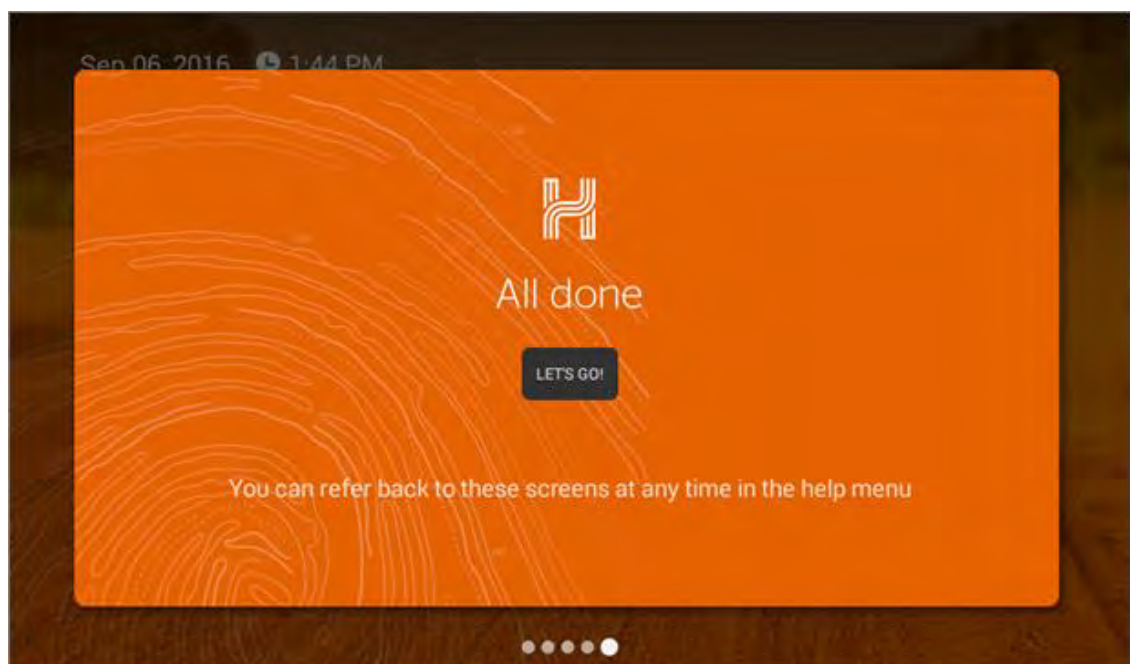
Main interest \* ☐ Caravaning ☐ 4WDDriving ☒ Other

REGISTER NOW

This username already exists. Please try again with a different email address.

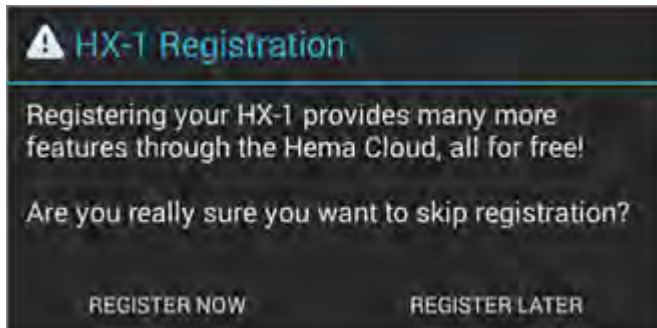
LET'S GO!

After the preceding steps are complete, tap the **LET'S GO! button** to open the Home Screen of your **HX-1**.



## Registering Later

If you choose the option to register later, you will be prompted to be sure that you wish to do so.



Registering carries certain benefits, and there is no good reason not to register, so this is just to remind you of that and check that you really wish to skip registration at this point.

Remember, you can register at any time.

---



# Getting Started

## Getting Started

In this section of the user guide, we introduce you to the basics of your **HX-1**.

This section will help you familiarise yourself with the general features, controls, and operation of your **HX-1**.

This section contains the following topics:

1. Introduction
  2. About Your Navigator
  3. HX-1 Features
  4. Parts of the HX-1
  5. Connecting to Power
  6. Turning the HX-1 ON and OFF
  7. Charging the Battery
  8. Inserting and Removing MicroSD Cards
  9. Resetting the HX-1
-

## Introduction

Congratulations on purchasing your **Hema HX-1 Navigator** portable navigation system!

Hema takes great pride in providing its customers with quality navigation solutions supported by friendly and effective customer service.

Hema is confident that the **Navigator** will prove to be a valuable tool in the pursuit of your adventures and ensure a safe and pleasant journey wherever the road or track may lead you.

Please fully charge your new **HX-1** before using for the first time.

**Please take the time to register your device as soon as possible after charging and starting up!**

Registering your device will give you access to the online Hema Cloud as well as the app and data update centre. By signing in, you will receive software and content updates, back up trip data and unlock premium map content and navigation features on your **HX-1**.

Please be sure to familiarise yourself with the functions and operation of your **Navigator** by reading the Quick Start Guide and this eGuide thoroughly.

If you need assistance, please check our website at <http://www.hemamaps.com> for support information, and Frequently Asked Questions.

---

## About Your Navigator

So, what is the **Navigator**? What makes it different to other car GPS devices?

Most in-vehicle GPS systems are designed for use around town and on suburban streets. They use a mapping system called vector mapping, and they can tell you how to get from A to B by guiding you with on-screen directions and spoken instructions as well. There are many other features which may or may not be included, depending on the make and model.

A typical street-only GPS will effectively create routes between points within the same suburb, city, state, or even across the country.

Once you leave the main highway, however, and venture into more remote locations, these types of GPS systems are generally not quite as useful.

This is where the **Hema HX-1 Navigator** steps in.

The **HX-1** is equipped with two separate applications to cover your navigation needs.

### Drive Mode

Around town, **Drive Mode** performs the same functions as a typical street-only vehicle GPS. It has several unique features including:

- Complete set of Hema POI Data
- Full Camps Australia Wide POIs featuring facility icons, site explanation, road comments and Camps site images, as follows:
  - Camps Australia Wide POIs
  - Caravan Parks Aust Wide POIs
- Dump Point (effluent) POIs

### Explore Mode

The 4WD navigation system features the proven **Explore Mode** app, which is what makes the **HX-1** different. It does not work in the same way as the usual "street-only" GPS units and software.

The basic concept is that you have an electronic map image, known as a "raster map". **Explore Mode** knows the geographical area which is covered by the raster map, and therefore, once it knows your vehicle's position, can identify and display your vehicle's location on the map.

It also has some other useful features, including:

- Adding waypoints at any location. A waypoint is a "marker" on the map, which you might use so that you can find your way back to a specific location at a future time (such as a good fishing spot, a nice camping area, etc.).

- Recording the path your vehicle follows as you travel in bush areas. This is known as a Track Log or Breadcrumb Trail. This can be a very handy tool if you are in an area where there are indistinct tracks to follow. While the screen shows where you are now on the map displayed, it also shows how you got there.
- Searching for named locations such as "Ayers Rock", or "Fog Bay" etc. When a location is found by searching, you can show it on a map, add a waypoint for it, or just go directly to it.

**Explore Mode** is designed for use when you are "out bush", rather than within towns and suburbs, that is the primary function of the **Drive Mode** app.

The **Navigator** includes additional and exciting features. Please take the time to read the Quick Start Guide and this eGuide to familiarise yourself with its capabilities and functions. You will soon feel at home using it.

There are many other features which the software is capable of, which are explained in this eGuide. Further documentation and assistance are available on the Hema website, at <http://www.hemamaps.com>.

Enjoy exploring with your Hema **Navigator**!

---

## HX-1 Features

- Large 7" IPS LCD wide screen (1024 x 600 resolution)
  - G+G, 5-point capacitive touch-panel
  - Pre-installed tempered glass screen protector with polarisation cancellation
- 64-Channel GPS for improved location accuracy and faster GPS fix.
- 1Gb on-board memory.
- 16Gb Internal storage
- External SD card storage supporting up to 32Gb Micro SD cards
- Connections
  - 3.5mm stereo audio out jack
  - Micro-SD card slot
  - Mini USB connector
- Audio
  - Speaker: 8Ω, 1.5W
  - Microphone
- Communications / Sensors
  - USB: Mini-USB 2.0 data and charge
  - Bluetooth: Bluetooth 3.0 HS, Bluetooth 4.0 LE
  - Wireless: IEEE 802.11b/g/n
  - GPS: MT6627, 22 channels tracking
  - G-sensor
- Battery
  - LiPo (Lithium-Polymer) 5000mAh
- Operating system
  - Android 4.4
- **Drive Mode** street navigation app

Preloaded with Australia & New Zealand mapping, full Camps POIs plus **3 years** map update period.

- **Explore Mode** off-road navigation app

Complete with access to Hema Cloud web site community.

- 12 month warranty backed by Hema's excellent support team.
-

## Parts of the HX-1

### Front & Side view

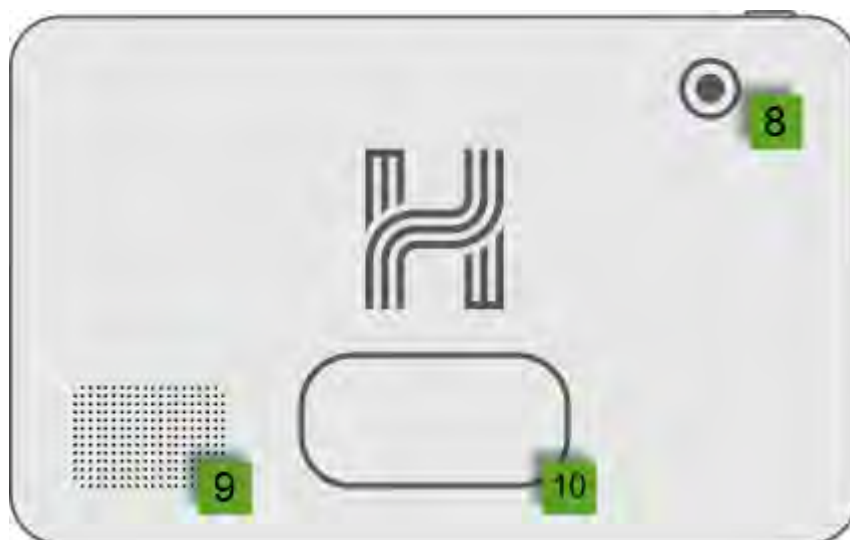


1. Power button
2. Touch panel
3. LED Charging indicator
4. Aux audio out (used to connect to an external speaker / amplifier)
5. Micro SD Card slot
6. Mini USB port
7. Microphone (used to capture audio during video recording)

#### Note

The **HX-1** can be used in landscape or portrait modes. However, the supplied screen mount and cradle are designed for use in landscape mode while attached to a vehicle windscreen.

## Rear view



- 8. Camera
  - 9. Speaker
  - 10. Serial Number
-

## Connecting to Power

### Tip!

As soon as the **HX-1** is plugged in it will power up. If you wish to charge the unit, while not using it, simply place it in sleep mode.



1. Plug the Mini USB connector of the car charger into the Mini USB port located on the left side of the **Navigator** (it's located in the lower quarter of the left side panel).
2. Plug the car charger into a 12V or 24V power outlet in the vehicle.

### Note!

Do not use any adapter other than the supplied Hema 12V adapter to power the unit. Non-standard 12V power adapters may damage the unit and void your warranty.

The supplied power adapter is equipped with a USB plug which is angled backwards (away from the front of the unit) to make cable management easier.



## Turning the HX-1 ON and OFF

### Tip!

As soon as the **HX-1** is plugged in it will power up. If you wish to charge the unit, while not using it, simply place it in sleep mode, with a quick tap to the Power button.

If you find that the **HX-1** does not charge up quickly enough (this normally happens on short trips) while in sleep mode, power down the device while not using it.

### Powering On

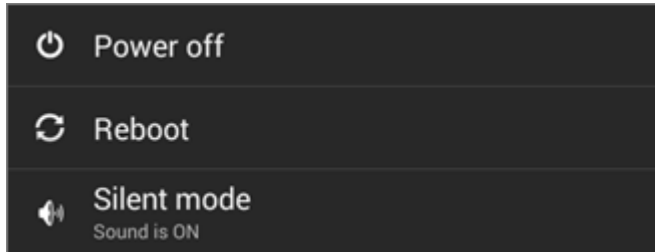
Locate the power button on the top edge of the device.

Gently press the power button for 1 second and release. The **Navigator** will display an animated start-up screen after a few seconds while powering up as shown below, before displaying the **HX-1** Home Screen.



## Powering Off

While the unit is powered ON, push the power button for approximately 1 second, you will hear a beep, and the **Navigator** will display a prompt for action as shown below.



The options are as follows:

### Power Off

Tap the **Power Off button** to power off the unit completely. Any applications that are running will be terminated.

### Reboot

Tap the Reboot button to power cycle the unit. Any applications that are running will be terminated. The device will automatically restart after it has powered down in this case.

### Silent mode

Tap the **Silent mode button** to switch sounds for system alerts on or off.

#### Note

System alerts are not the same as in-app alerts or sound settings. Other apps have their own sounds related settings.

## Sleep Mode

A short press on the Power button will instantly put the **HX-1** to sleep.

## Configuring power down options

The **Navigator** can also go into Sleep Mode when power is removed (see [Sleep Mode under Settings](#) for details) or completely powered OFF.

## Charging the Battery

### Note

If you plug the **HX-1** into a power source while it is either asleep or powered off, it will power up.

If you wish to charge the device while it is sleeping, tap the **Power button** after plugging it in to the power source, which will instantly put the **HX-1** to sleep. Note that on short trips, the **HX-1** may not attain a decent charge while in sleep mode.

The internal Lithium-Polymer battery in the **HX-1** can be charged using one of the following methods:

1. Connect the supplied **HX-1** vehicle cigarette lighter adapter to the **Mini USB** port.
2. Connect the **Mini USB** cable between the **Navigator** and a computer's USB port.

Most computer USB ports only output around 400-500mA. Due to the low current output of these USB ports, the **HX-1** will charge at a slower rate than if connected to the supplied 12V adapter.

For faster charging, some PCs have special high-output USB ports which output higher-than average current specifically for charging external devices, or use the supplied in-vehicle charger, or another charger which is capable of around 2A (2000mA) output current.

The device charge indicator will glow a steady RED while the device is connected to power.

The battery indicator on the home screen of the **HX-1** will also show a lightning bolt symbol while the device is charging.

Please see the **Battery section** of the **Safety Notes & Maintenance topic** of this eGuide for more information regarding Lithium-polymer batteries.

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## Inserting & Removing MicroSD Cards

The **Hema HX-1 Navigator** is equipped with a MicroSD card slot.

The SD card can be used to store captured images and video.

### Tip!

Try to purchase known brands of SD cards from reputable dealers.

Some SD cards available on the internet from places like eBay might be counterfeit, or at best, misstate their specifications and / or their capacity.

Research any prospective purchases thoroughly prior to purchasing.

Note that SD cards may be affected by static electricity. Try to avoid touching the metal contacts on the SD card while handling.

### Inserting the MicroSD card

To insert a MicroSD card from your **HX-1**:

1. Turn the **Navigator** so that the front of the device is facing you.
2. Locate the MicroSD card slot on the left side of the device (it's around the middle of the side panel).
3. Position the card with printed side facing you as per illustration below.
4. Slide the card gently into the slot, until it clicks into place.



### Note!

When inserting a MicroSD card, ensure it is centred in the card slot. Do not push in on an angle and avoid forcing the card into the slot.

## Removing the MicroSD card

To remove a MicroSD card from your **HX-1**:

1. Turn the **Navigator** so that the front of the device is visible.
2. Locate the MicroSD card slot on the left side of the device (it's around the middle of the side panel).
3. Using your fingernail, push the card gently further into the slot and slowly release.
4. The card should spring out of the slot far enough for removal.

### Note!

Avoid letting the MicroSD card eject quickly out of the slot. MicroSD cards are small and easily lost!

---

## Resetting the HX-1

Press and hold the power button for approximately 15 seconds to reset the **Navigator**, forcing a power off and causing the device to reboot.

### Note

This is a power reset only, and is not the same as a Reset to Factory Defaults, which is performed from the Settings screen.

A power reset will not remove any data or change any settings on your **HX-1**, whereas the **Reset to Factory Defaults option** completely clears the **HX-1** data, and clears the unit back to the state it was in when first unpacked.

This should not be required under normal circumstances.

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# Home Screen

## Home Screen

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### Introduction

Once the **HX-1** has started up, you will see the Home screen.

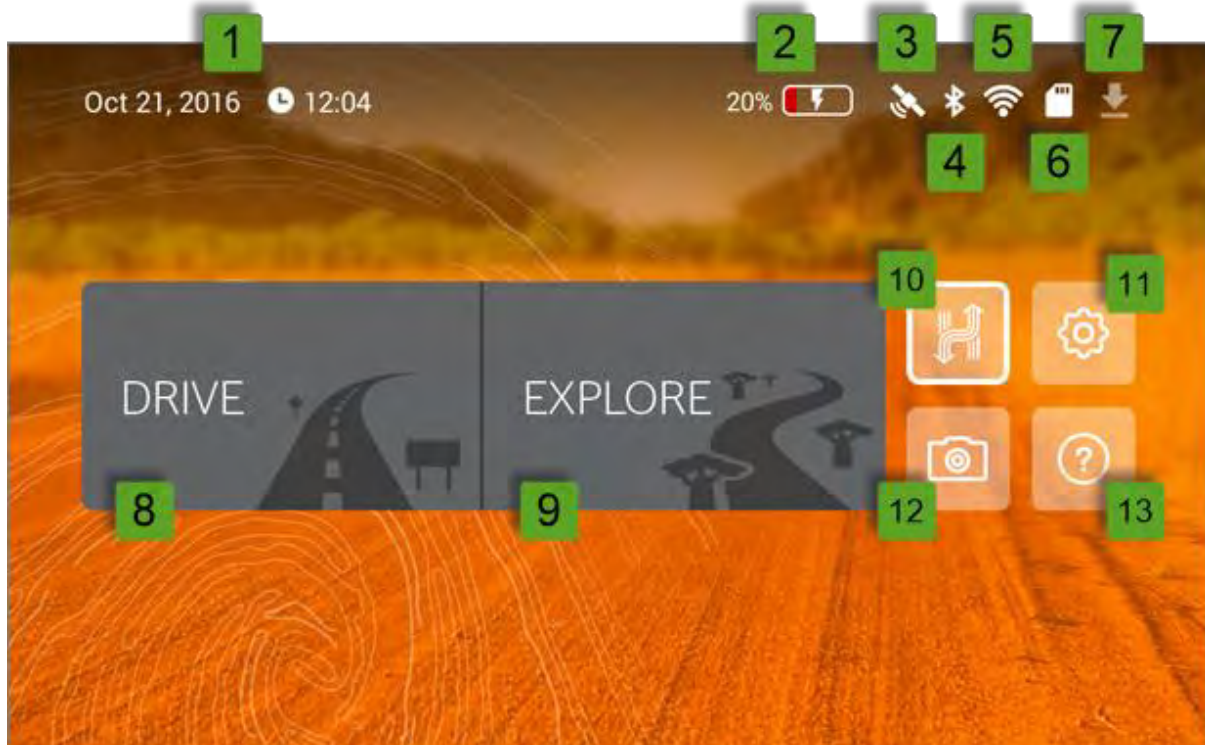
#### Note

Throughout this eGuide, screenshots and examples are shown in landscape mode.

The **HX-1** and its accessories are designed for use in landscape mode, although it can be used while hand held in portrait mode as well.

The home screen contains a number of buttons and indicators, which it is worthwhile familiarising yourself with.

## Home Screen



All of these items are discussed in detail in the sections below

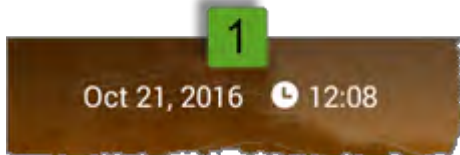
1. Current Date and Time
2. Current Battery Level
3. GPS indicator
4. Bluetooth status indicator
5. WiFi status indicator
6. SD Card status indicator
7. Download status indicator
8. Drive button - launches Drive mode
9. Explorer button - launches Explore mode
10. Navigation button
11. Settings button
12. Media Manager
13. Help button - displays this eGuide



## Current Date and Time

The Date and Time indicator shows the current date and time.

This indicator is located at the upper-left of the home screen as shown at **1** below.



## Current Battery Level

Shows current battery level, as a percentage, and as a symbol.

The indicator is located in the upper-right part of the home screen, as shown at **1** below.

The indicator will change colour from green to orange to red as the charge level decreases.



While connected to an external power source, the battery symbol displays a lightning bolt indicator, as shown above.

### Note

The LED on the front left-side bezel of the **HX-1** will also glow RED while the device is charging from an external power source, changing to BLUE as the charge level increases.

## GPS indicator

Shows whether the internal GPS has been able to acquire a satellite fix, allowing your **HX-1** to determine its location on the Earth's surface.

The indicator is located in the upper-right part of the home screen, as shown at (1) below.



The indicator will be GREY when the unit has NOT obtained a location fix, and WHITE when it has acquired a satellite fix.

## Bluetooth status indicator

The indicator is located in the upper-right part of the home screen, as shown at (1) below.

Shows whether the Bluetooth radio in the **HX-1** is switched on or off.



The indicator will be GREY when Bluetooth is NOT switched on, and WHITE when it is switched on.

## WiFi status indicator

The indicator is located in the upper-right part of the home screen, as shown at (1) below.

Shows whether the WiFi radio in the **HX-1** is switched on or off.



The indicator will be GREY when WiFi is not switched on and WHITE when it is switched on.

## SD Card status indicator

Shows whether there is a MicroSD card in the card slot in the **HX-1**.



The indicator will be GREY when there is no MicroSD card present and WHITE when a MicroSD card is inserted.

## Download status indicator

Shows whether there are queued downloads pending on the **HX-1**.



The indicator has THREE possible states:

1. GREY when there are no active downloads
2. WHITE / flashing with a percentage counter when there are one or more active downloads
3. GREY with a percentage counter when there are one or more active downloads, but the downloads are suspended due to lack of internet connection.

### For Your Information...

If downloads are pending, or in progress, and the internet connection is interrupted, the downloads will automatically resume when the connection is restored.

The queued downloads will also survive the **HX-1** being restarted. ie. anything in the queue when the **HX-1** is powered down will still be in the queue when power is restored.

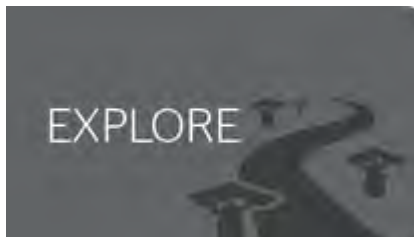
### Drive button



Starts the **Drive** application which is suited for on-road travel.

See the [Drive section](#) of this eGuide for details.

### Explore button



Starts the **Explore** application which is suited for off-road travel.

See the [Explore section](#) of this eGuide for details.

### Navigation button



The **Navigation button** opens the **Nav panel**.

## The Fixed and the Floating Navigation button

The Navigation button found on the Home screen of the **HX-1** is fixed in place in its position on the Home screen.

When another screen is opened (for example the Settings screen), the Navigation button appears there, but it can now be moved about the screen, to position it where it is most convenient for you.

If you look at the screenshot below, you will notice that the Navigation button appears at the lower center-right of the screen. You can drag the button to wherever you like on any screen, and it will remember its position on that screen for next time.



We call this button, the **Floating Navigation button**.

A quick tap on the Floating Navigation button will always take you back one screen (exit the current screen).

A tap-and-hold on the Navigation button will always open the **Navigation panel**, no matter what activity you are performing at the time.

## Settings button



Launches the **Settings screen**.

The settings screen contains a number of options, which are detailed in the [Settings screen section](#) of this user guide.

## Help button



The Help button launches the **HX-1** User Guide (that's the document you are currently reading!).

## Media button



Launches the **Media Manager**, which allows you to capture images and video, and view a gallery of these captures.

This is described in detail in the [Media Manager section](#) of this eGuide.

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## Nav panel

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The Nav panel is a floating window which can be opened no matter what is currently displayed on the screen of the **HX-1**.

It contains several functions, as detailed in the following sections of this eGuide.

### Note!

Some of the features found on the Navigation panel are duplicates of the functions found on the Home screen.

The Navigation panel can, however, be opened from anywhere, no matter what other applications might be running.

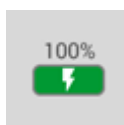
## The Nav panel

The Nav panel is shown below, with each control labelled for reference.



1. Battery Charge indicator
2. GPS indicator
3. Bluetooth indicator
4. WiFi indicator
5. Volume slider
6. Brightness slider
7. Drive button
8. Explore button
9. Home button
10. Media button
11. Settings button
12. Help button

## Battery Charge indicator



Shows the current charge level of the **HX-1** battery.

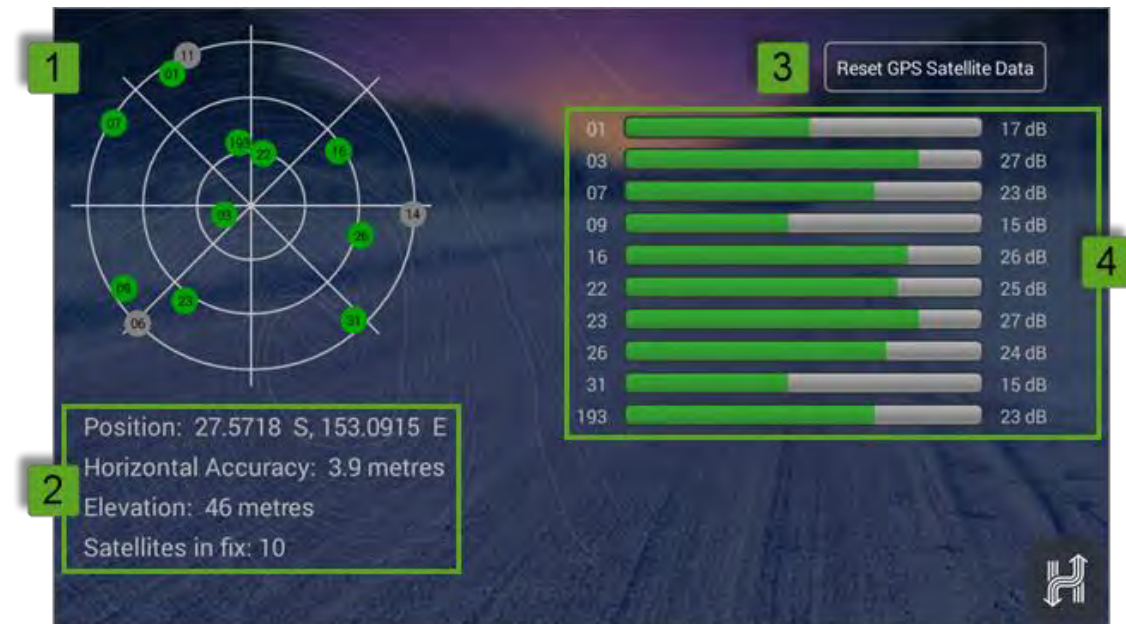


## GPS indicator



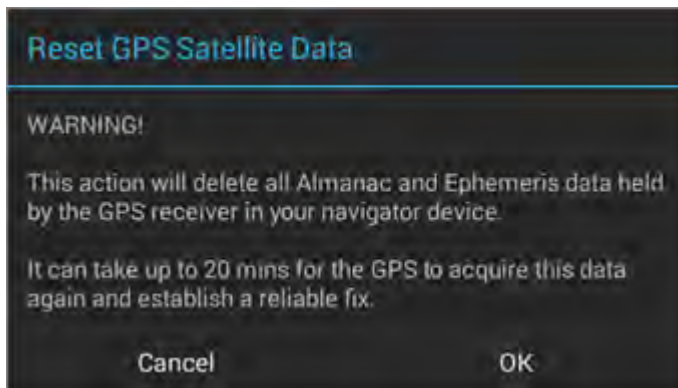
Shows whether the internal GPS has achieved a satellite fix or not.

Tapping this icon opens the GPS Status screen, which shows the current status of the satellite and relative signal strengths acquired by the internal GPS, as shown below.



1. GPS satellite status shown as a constellation map centred on your current location.
2. GPS status information. General GPS status information is displayed here.
3. Reset GPS Satellite Data button

This option will remove the Almanac and Ephemeris data which the GPS depends on within the **HX-1**. You will receive a warning to this effect. Tap the **OK button** to continue with the reset, or tap **Cancel** if you do not wish to perform the reset.



### Warning

Deleting the GPS Almanac and Ephemeris data is not dangerous, as it is refreshed easily from data broadcast by the GPS satellite constellation.

However, it CAN take some time for the data to be acquired by a GPS device (such as the **HX-1**) during which time the GPS will not be able to ascertain its location.

#### 4. Satellite signal strength meters

This section of the screen displays a bar graph showing relative signal strength for each numbered satellite in the GPS constellation.

### Bluetooth indicator



Shows whether the **HX-1** Bluetooth is enabled.

Tapping this button will toggle Bluetooth between off and on states.

### WiFi indicator



Shows whether the **HX-1** WiFi is enabled.

Tapping this button will toggle WiFi between off and on states.

### Volume slider



Adjusts the volume for the internal speaker.

Slide to the left to decrease the speaker volume, and slide to the right to increase the speaker volume.

Tap the icon at either end of the slider to instantly jump to min or max volume.

### Screen brightness slider



Adjusts the brightness of the screen.

Slide to the left to make the screen dimmer, and slide to the right to make the screen brighter.

Tap the icon at either end of the slider to instantly jump to minimum or maximum screen brightness.

### Drive button



Starts the **Drive** application which is suited for on-road travel.

See the [Drive section](#) of this eGuide for details.

### Explore button



Starts the **Explore** application which is suited for off-road travel.

See the [Explore section](#) of this eGuide for details.

### Home button



The **Home button** returns you to the Home Screen of the **HX-1**.

#### Note!

If you have an app running (**Drive** or **Explore**), and you pop open the Nav panel by using tap-and-hold on the Navigation button, then tap the Home button, the app you were in remains running in the background.

### Media Manager button



Launches the **Media Manager** screen.

[This is the same function as called from the Home screen.](#)

See the [Media Manager section](#) in this eGuide for details.

### Settings button



Launches the **Settings** screen.

This is the same function as called from the Home screen.

The settings screen contains several options, which are detailed in the **Settings screen section** of this user guide.

### Help button



This is the same function as called from the Home screen.

The Help button launches the **HX-1** User Guide (that's the document you are currently reading!).

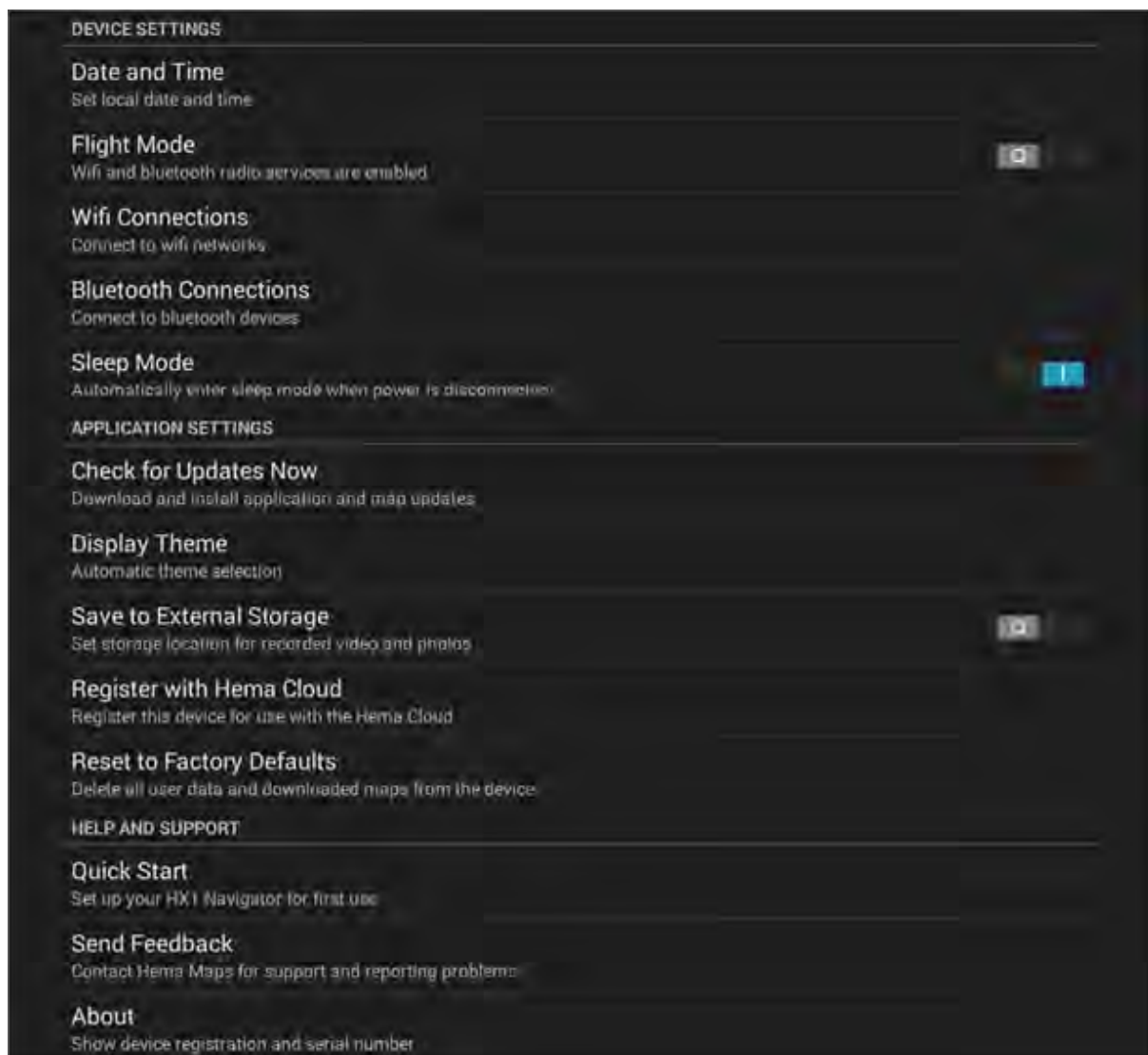
## Settings Screen



Tap the **Settings button** to open the **Settings screen**.

The Settings screen allows you to change some of the parameters which affect the way your **Navigator** performs.

Some of the settings are accessible directly under the main Settings screen, whereas others are accessible from their own sub-screen, which itself is accessible from the main Settings screen.



### Remember!



The Nav button appears on the Home screen in its fixed location, and on other screens in whichever position you choose to place it,

A SHORT TAP on the Nav button will return you to the previous screen at any time.

A LONG TAP on the Nav button will pop up the Nav pane, where you can access **Navigator** device settings, etc.

The button can be dragged to any position on the screen of your choosing, and will remember its location on that screen.

Note that in some of the screenshots seen in this eGuide, the back button has been removed from the image for the sake of clarity.

Settings are split into a number of categories

1. **DEVICE SETTINGS**
2. **APPLICATION SETTINGS**
3. **HELP AND SUPPORT**

The following sections explain these settings in detail.

## DEVICE SETTINGS

### Date & Time Settings

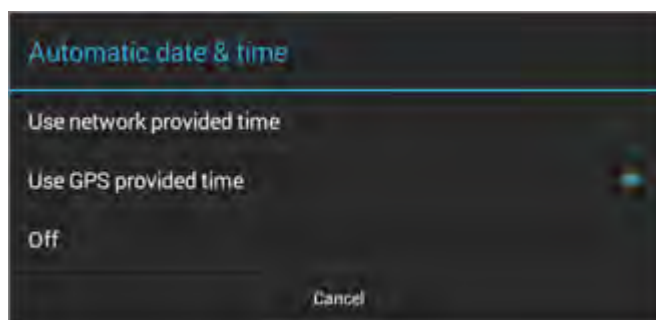


The **Date and Time button** opens the Date & Time Settings screen. By default, the **HX-1** is configured to get automatic time updates directly from the GPS system.



The options available here are:

#### Automatic date & time



When this option is selected, you have a number of sub-options.

- **Use network provided time**

Use the time as broadcast by the network your **Navigator** is currently connected to



- **Use GPS provided time [Default]**

**This is the default option**

Use the time broadcast by the GPS satellite constellation. This is likely the best option, and will give the most accurate results.

- **Off**

Turns off automatic date & time setting, in which case the manual options on the Date & Time Settings screen will be used instead.

### **Set Date**

### **Set Time**

The two options above are only used when you are **not** using either network or GPS provided automatic date & time setting. These options are NOT available when the date and time are being set automatically (either from a GPS or network source).

Each of these options allows you to manually set the date or time.

### **Select Time Zone**

Choose which time zone you are using your device in

### **Use 24-hour format**

If you prefer military format time (ie. 17:00 for 05:00PM), choose this option

### **Choose date format**

Allows you to choose what format dates are presented in.

## Flight Mode



**Default is OFF**

Flight Mode turns off the Bluetooth and WiFi radio systems in the **HX-1**. This can be a quick way of instantly turning off all signal generating parts of the **HX-1** (ie. useful when travelling on domestic airlines, hence the name). Slide the switch to the ON position, shown at (1) above to activate Flight Mode.

## WiFi Connections



These settings are where you can configure and manage your WiFi connections.



**Default is OFF**

WiFi must be switched on for connections to be possible. Make sure that the switch at 1 above is ON before trying to connect to your WiFi access point.

After switching WiFi on, the **HX-1** will scan for available WiFi networks, and will then display a list of WiFi networks to connect to, as shown below (actual access point names blurred).



### Note

Configuration of your WiFi access point or hotspot is outside the scope of this user guide.

This guide assumes that the access point you are connecting to has been correctly configured, and that you know the password required to gain access to your chosen **SSID** / access point.

Tap a specific SSID to connect to it. Enter any password or security data required by the access point.

After connecting successfully, you will see a screen similar to that shown below (access point names blurred). Note that the **HX-1** is now connected to the selected WiFi access point, as shown at (1).



Other buttons on the WiFi Settings screen are:



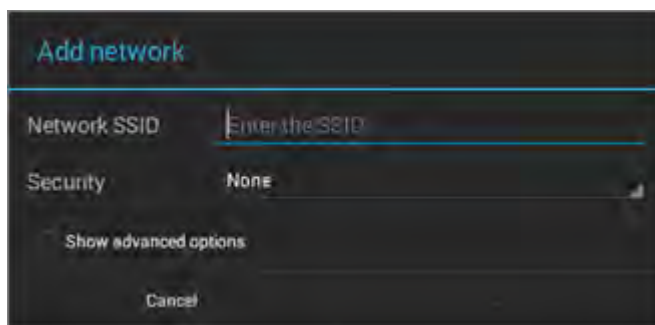
### WPS connection button

Use this button to connect to a WiFi access point which has the WPS (WiFi Protected Setup) functionality included. WPS allows you to connect by pressing a button on the WiFi access point / router to initiate a WiFi connection between the device and the **HX-1**. Familiarise yourself with the documentation for WiFi access point before using WPS to connect.



### Add button

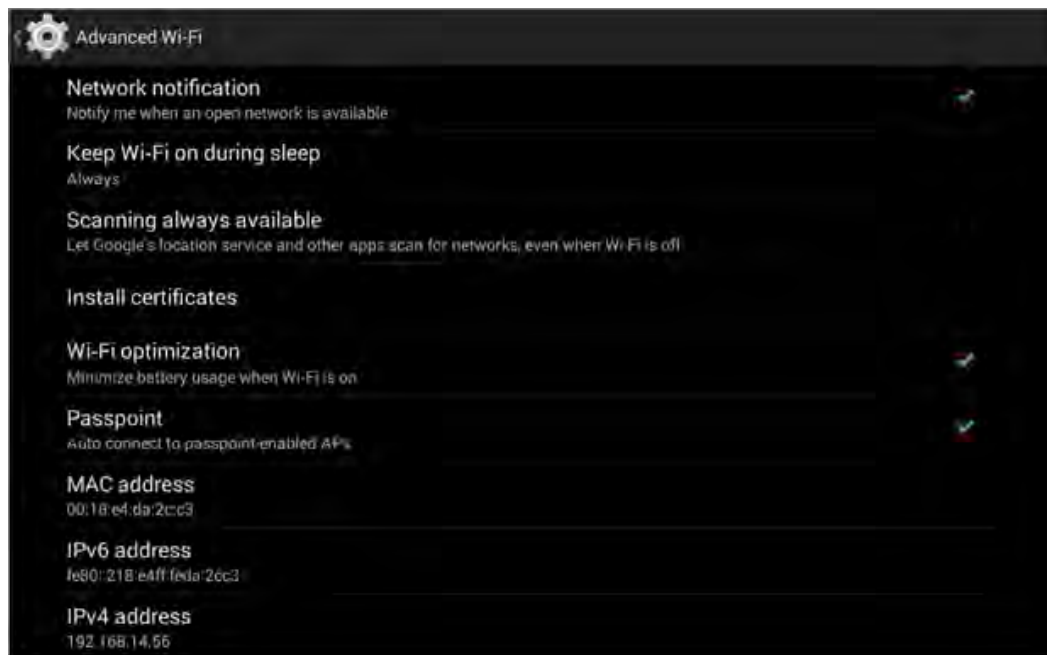
Manually add a new WiFi network. This option would be used where your WiFi access point does not advertise any SSID.



### WiFi menu (1 above)

The drop-down WiFi menu gives you access to more advanced WiFi options.

Tap the **Advanced button** to see the **Advanced Wi-Fi settings screen** as shown below. The options are described below.



### Network notification

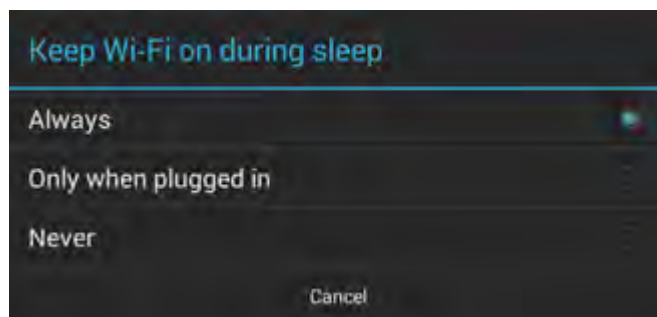
This option toggles notifications whenever an open WiFi network is detected.

Turn this notification off if the notifications become annoying.

### Keep Wi-Fi on during sleep

This option selects whether to keep the Wi-Fi subsystem active while the device is asleep.

Tapping this option will display a number of further options to choose from.



### Always

Always keep Wi-Fi active while the device is sleeping

### Only when plugged in

Only keep Wi-Fi active if the device is plugged into an external power source

### Never

Do not keep Wi-Fi active while the device is sleeping

Keeping Wi-Fi active while the device is asleep will consume more power than if it is switched off. If battery life is of concern, set this option to Never.

### Scanning always available

Switching this option on allows specific system apps (such as Google Location Services) to continue scanning for Wi-Fi networks, even when the Wi-Fi is switched off.

### Install certificates

This options allows you to install a certificate which has been copied to your device, if a certificate is required to provide Wi-Fi network access.

### Wi-Fi optimization

This option is designed to reduce battery usage by the Wi-Fi subsystem. The effects are minimal.

### Passpoint

Passpoint enabled access points are designed for quick connection (They are often used for free / open Wi-Fi access). Enabling this option will cause the **HX-1** to automatically connect if a PassPoint enabled access point is detected.

Some of the options displayed on this page are purely informational, such as:

### MAC address

The network hardware address of your device

### IPv6 address

Shown if your device has been assigned an IPv6 address by the access point once connected

### IPv4 address

Shown if your device has been assigned an IPv4 address by the access point once connected

### Public Access Wifi Sign In

When travelling you may want to access the internet using a public WiFi hotspot. For example some well known hamburger chains offer free WiFi at their outlets. Many motels, shopping centres, caravan parks, etc. also offer this type of service to guests.

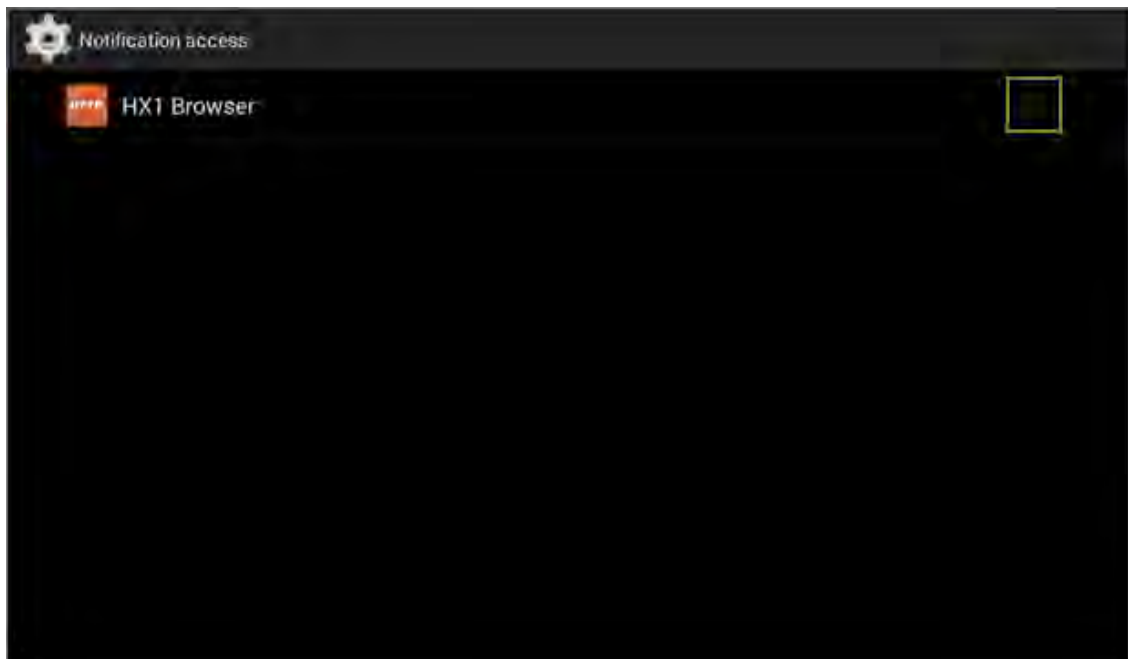
When you try to access WiFi using one of these types of services, often there is an additional "hoop" to jump through to gain access to the free WiFi.

Normally, connecting to a WiFi network requires selecting the SSID to connect to, and entering a password, and then you are connected.

To access the free WiFi offering, you usually connect without a password, then you are connected to the network, after which you will be redirected to a web page where you may have to enter other information, such as your email address.

To enable this facility click the **Public Access Wifi Sign In** option on the **HX-1 Settings screen**.

If you have not used this option previously, you will see the screen shown below.

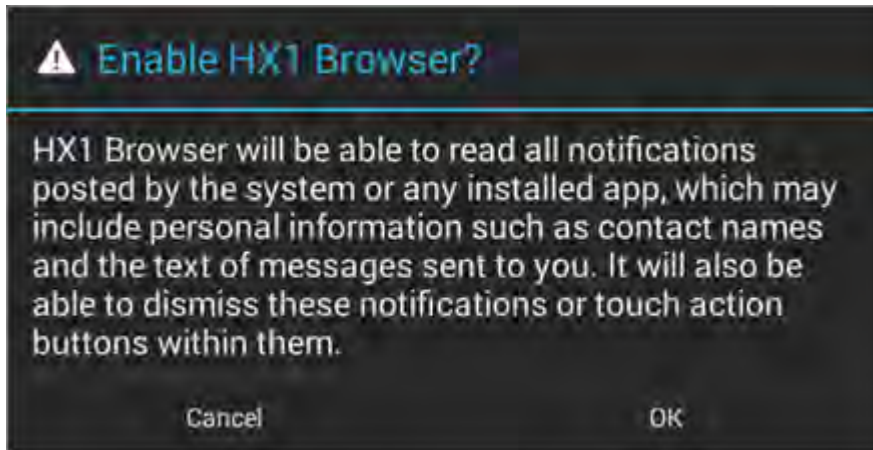


You must tap the tick box to enable the internal web browser functionality which can handle the web interface component of the free WiFi login process.

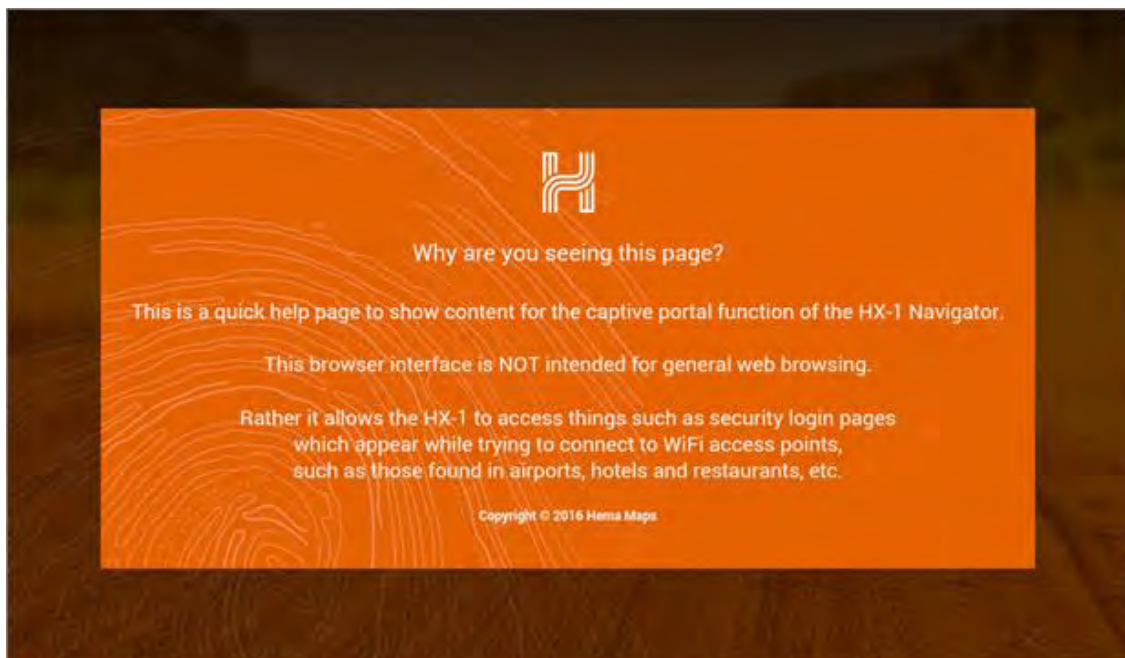
**Note!**

This internal web browser is NOT designed or capable of being used for general web browsing duties. It is a simple browser interface specifically for use in the scenario described above.

After tapping to enable the **HX-1** browser option, you will be prompted to confirm that you wish to do so, as shown below.



Once you have enabled the browsing capability, you will see a quick help page, as shown below.



## Bluetooth Connections





Tapping the **Bluetooth Settings button** opens the Bluetooth screen, where you can configure your Bluetooth settings.

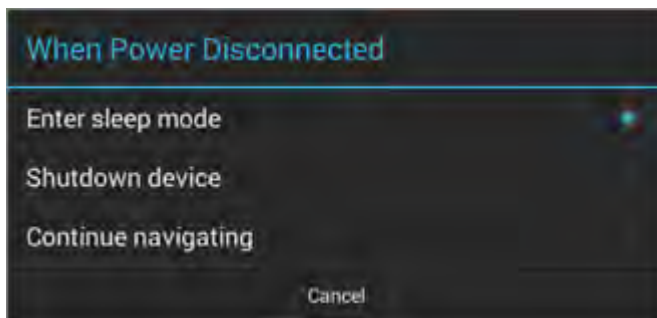
This is discussed in detail in the [Bluetooth section](#) of this eGuide.

## Accessibility Settings



Opens the Accessibility settings screen, covered in the Accessibility settings section of this eGuide.

## When Power Disconnected



The options are

### Enter sleep mode

This will cause the device to sleep once the external power source is disconnected (explained fully below).

### Shutdown device

Causes the **HX-1** to switch off completely when external power source is disconnected.

### Continue navigating

When this option is selected, removing the external power source will do nothing.

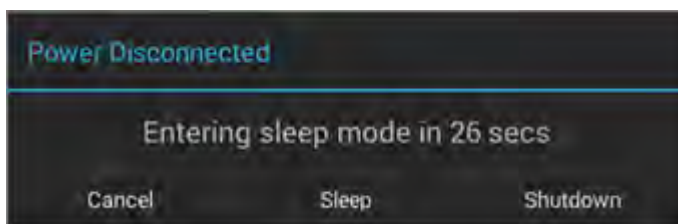
If sleep mode is OFF, the device will stay powered on even when the external power source is removed.

**Note**

When the **HX-1** is in sleep mode, it will consume a small amount of power, and will therefore reduce the battery charge over time.

(think of this as similar to when your TV is in standby mode)

When sleep mode is ON, the device will prompt you for action when external power is removed.



By default, the **HX-1** will shutdown after a 30 second countdown. You can also tap one the options on the prompt dialog:

**Cancel**

Do not enter sleep mode, but continue doing what you were doing.

**Sleep**

Enter sleep mode immediately (ie. bypassing the 30 second countdown).

**Shutdown**

Close down the **HX-1** and power off completely.

## APPLICATION SETTINGS

### Checking for Updates



The Check for Updates Now option checks the servers for any new content and application updates, then performs pending updates

The **HX-1** automatically checks for updates very shortly after starting up, providing an internet connection is available.

This option can be used to perform an update check at any time.

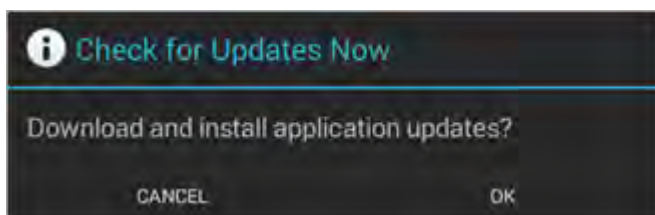
Updates may consist of changes to the firmware (or operating system) of the **HX-1**, or new versions of one or more of the apps which provide the functionality of the **HX-1**.

When new updates are pending, there may be one update only, or there may be a number of updates released together in a batch.

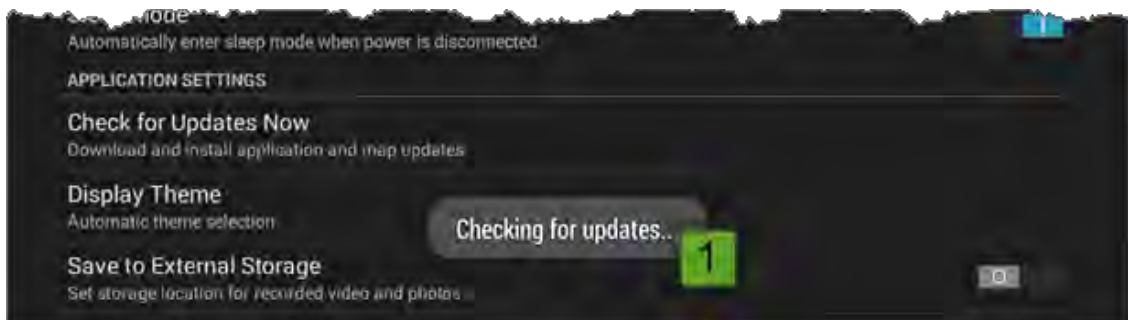
Whichever situation is the case, the **HX-1** will manage the download and the installation of the update(s) as required.

When you tap the Check for Updates Now button, the **HX-1** will contact the update server to see if there are any updates required.

It will prompt you to confirm this action via a dialog window as shown below.



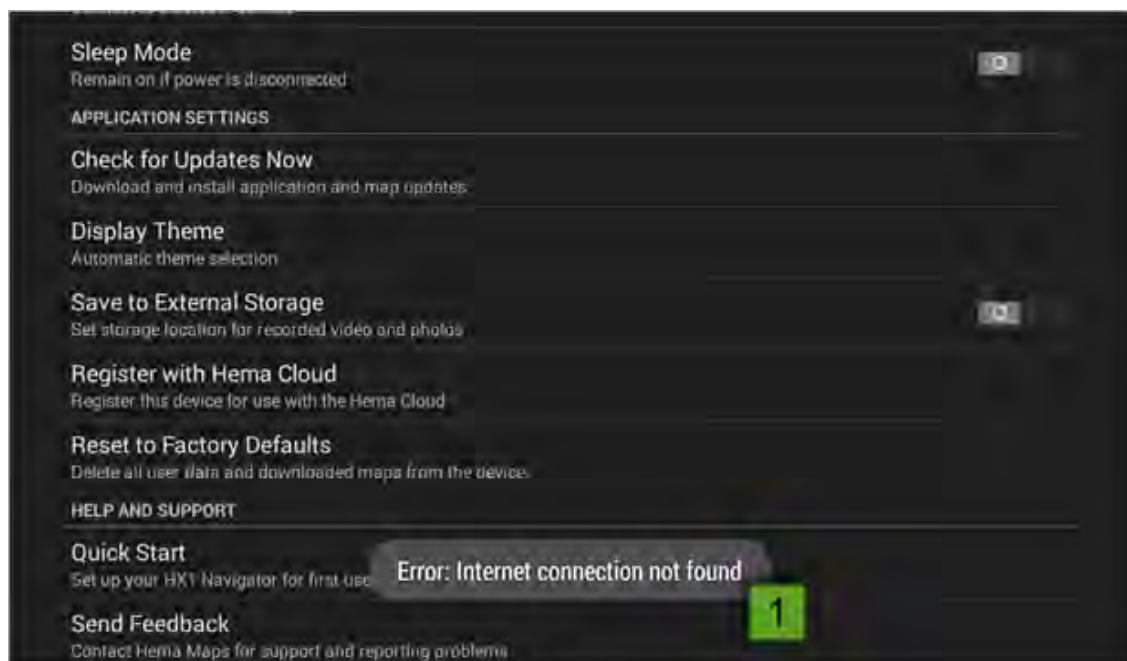
Tap the **OK button** to confirm that you wish to check for updates.



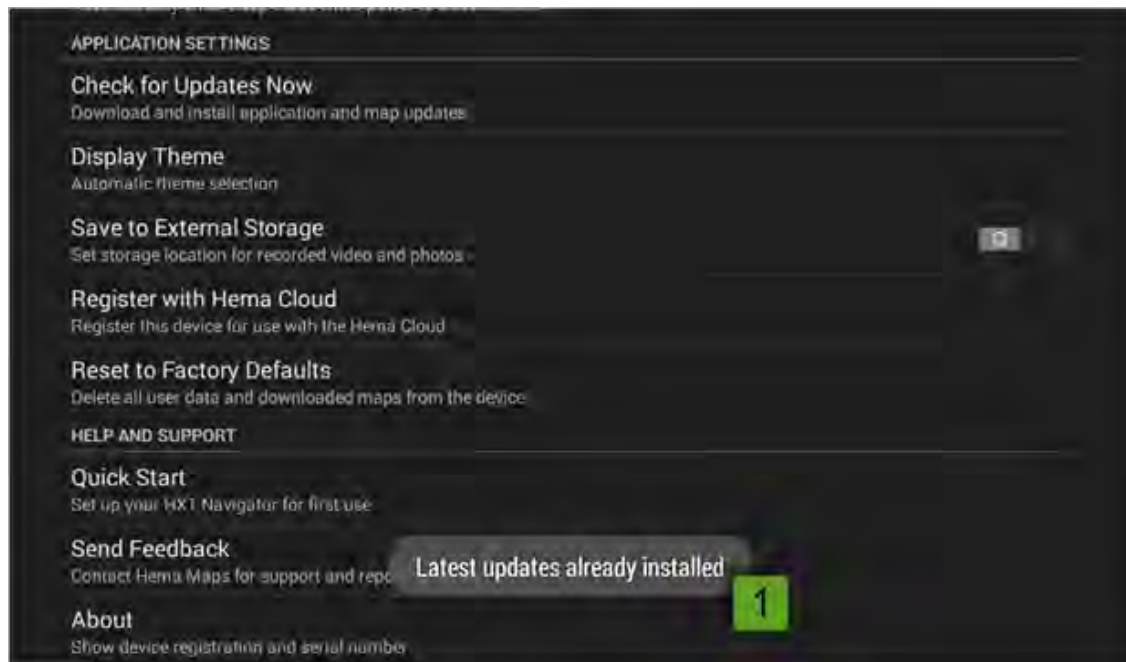
If the Update Manager determines that there are 1 or more updates available, it will download them directly to the **HX-1**, and display a message to that effect, as shown at (1) below.



If there is no internet connection present, you will see a warning message as shown at (1) below, and the update check will not continue.



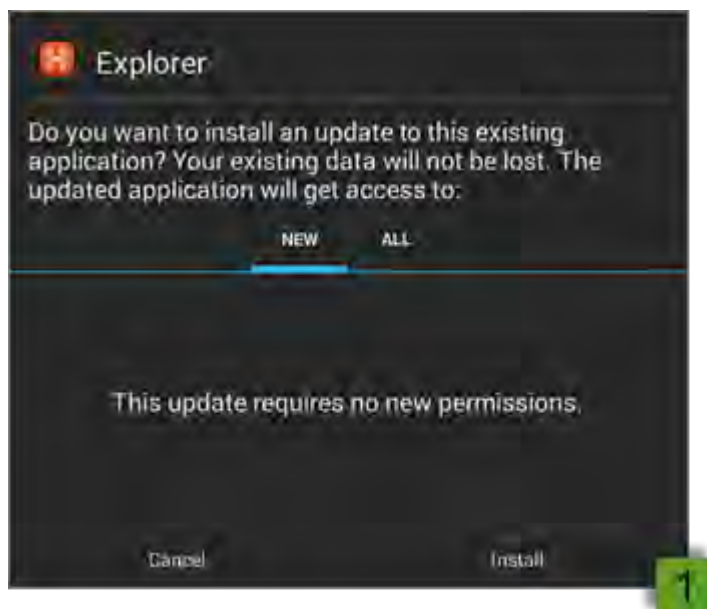
If the update check determines that there are no updates pending a brief message will display on the screen, as shown at (1) below.



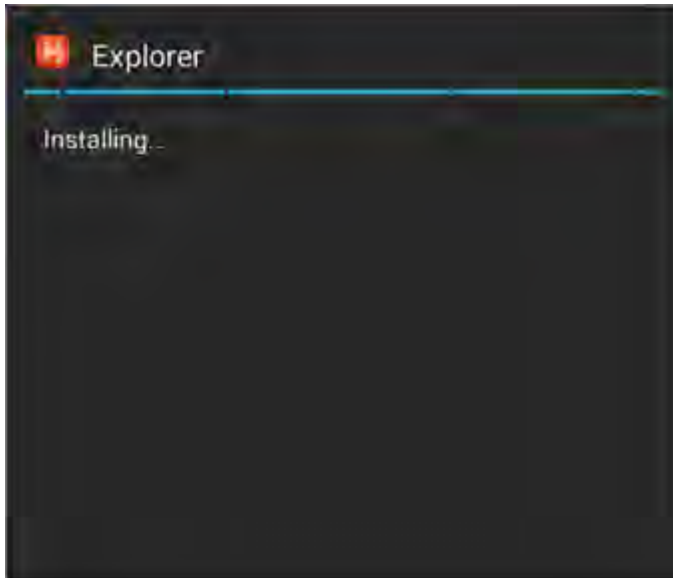
Once an update has been downloaded to your **HX-1**, the update manager will prompt for installation of each update package which has been downloaded.

The screenshots below show the process of updating an app via the update manager.

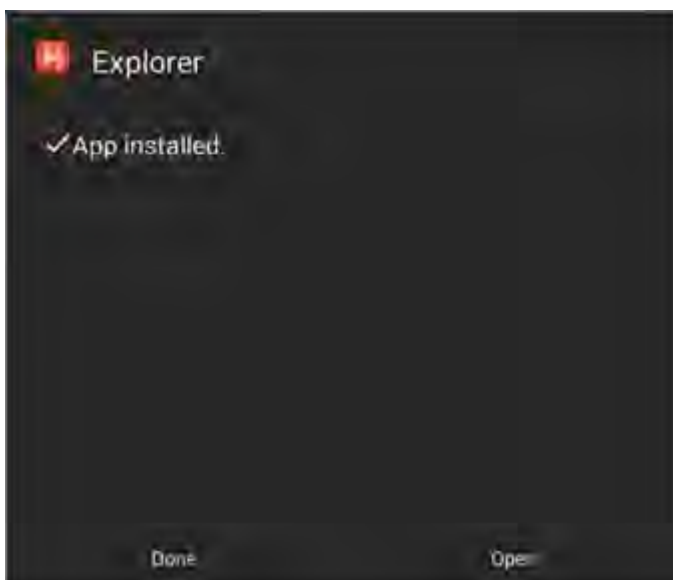
The update manager will display a prompt for each package which requires update, similar to that shown below.



Tap the **Install button** (1) to begin the update process for that app. The update manager will begin the app installation process, and display a dialogue window similar to that shown below while the installation is proceeding. Tap the Cancel button if you'd prefer to do the update later.



Once the app install process has completed, the update manager will display a dialogue window similar to that shown below.



Tap the **Done button** to complete the update for the app.

### Note

While there is generally no harm in tapping the **Open button** after updating an app, it is recommended to only tap the **Done button** after each update completes.

Once all updates are complete, it is recommended to perform a reboot of the device to ensure a clean startup with the latest version of all apps is running.

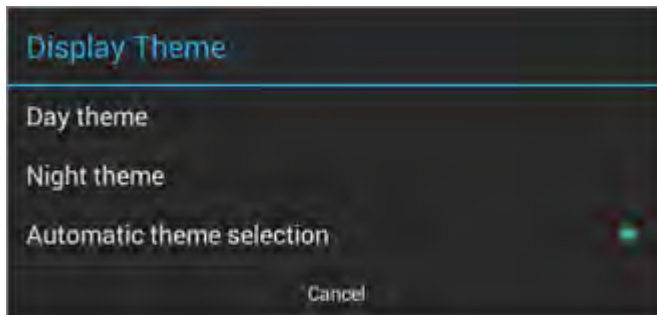
## Display Theme



Tapping the **Display Theme** option allows you to choose which mode is used for the screen display.

The mode is essentially a "theme", either day or night mode.

Night mode is a more subdued theme suitable for viewing during night hours, but your personal preference may vary.



You can manually set the option to your choice, or allow the **HX-1** to set the screen mode automatically, based on the sunset / sunrise time at your present location.

## Save to External Storage



**Default is OFF**

This option sets the default location for the storage of videos and photos captured by the Media tools.

Slide the switch as shown at (1) above to turn this option on or off.

If the option is on, the **HX-1** will use an SD card (not supplied) to store your captured media (images and videos).

## Register with Hema Cloud



Here, you can register your device with the Hema Cloud.

When you originally started up your **HX-1**, you ran through the onboarding process, part of which was to use this same screen to create your Cloud account. If you skipped that part of the onboarding process, you can do it at any time using this option off the Settings screen.

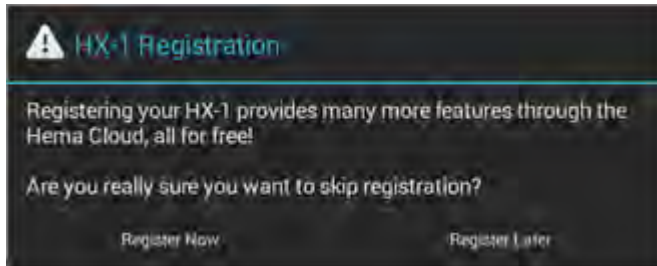
Registering a Cloud account grants you access to several additional features within the app, such as:

- Provides a place to sync your data to (waypoints, tracks, etc.) providing an effective backup mechanism in case of loss or theft of your device
- Grants access to additional layers of the Hema Explorer map (at higher zoom levels of 13-16)
- Grants access to additional 3rd party Topo map sources

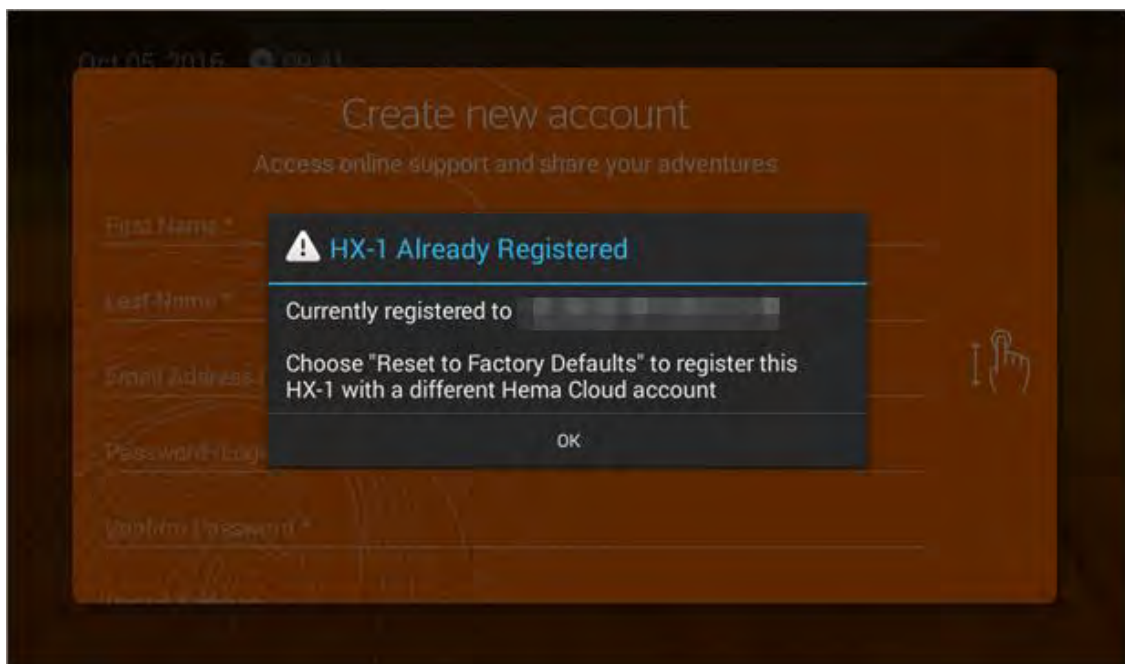
Tapping the button opens the **Create new account screen**.

If you change your mind, and tap the **REGISTER LATER button**, you will be prompted to confirm your action, as shown below.





If you try to register your **HX-1**, and it is already registered, you will see a message indicating that this is the case, and displaying the current user, as shown below.



If you wish to register with a different account, you will need to factory reset your **HX-1** to remove references to the old account before creating / registering your new account.

### Reset to Factory Defaults

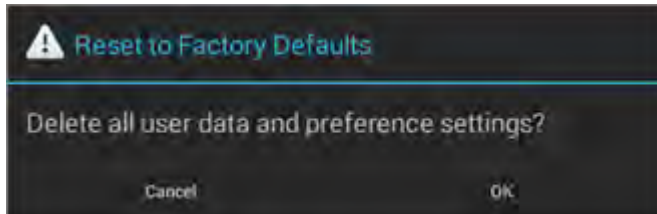


This option deletes all user data and downloaded maps on your device, and returns the unit to the same state it was in when first removed from it's packaging. If you select this option, you will be prompted to confirm that you wish to continue.

### For Your Information...

Performing a Factory Reset will NOT do anything to an SD card which happens to be in the **HX-1** at the time of the reset.

The Factory Reset will ONLY clean the internal storage of the device.



Tapping the **OK button** will factory reset your device.

### Warning!

Be sure that this is what you want to do before tapping the OK button, as there is no way to retrieve your data and settings once this option is used.

## HELP AND SUPPORT

### Quick Start



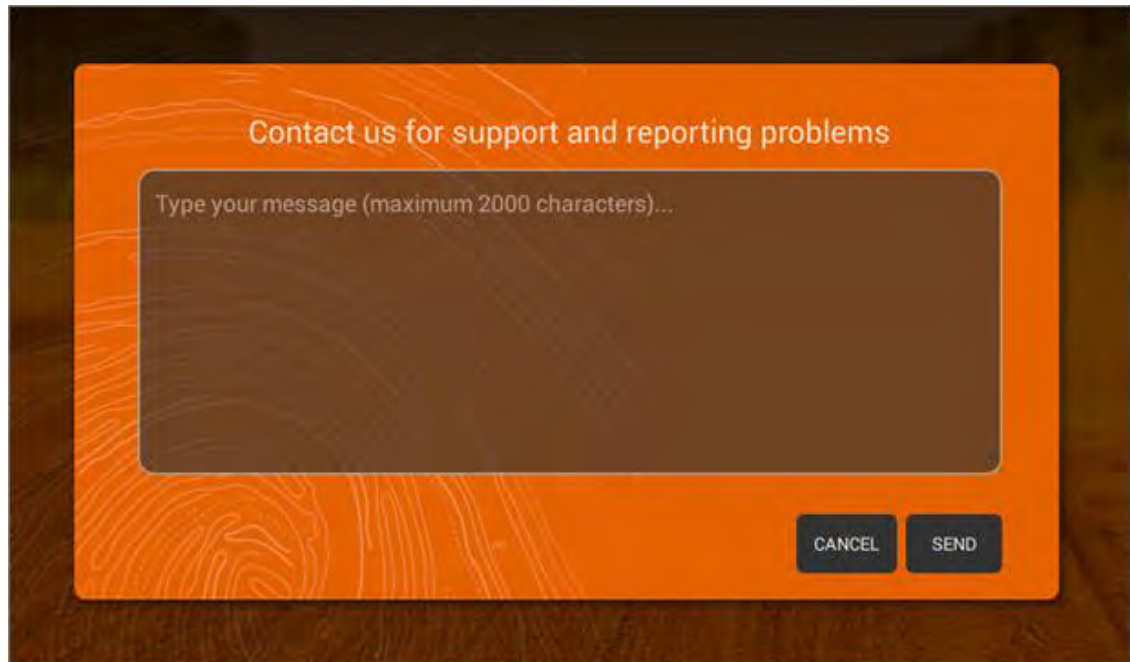
This option allows you to go through the *Quick Start* process which normally occurs when you start the **HX-1** for the very first time.

See [this section of this eGuide](#) for details of the *Quick Start* process.

## Send Feedback



This option allows you to compose a message (up to a maximum of 2000 characters), which will be sent to the Hema Tech Support Portal.



After entering your message, tap the **SEND button** to transmit your message to the server.

Tap the **CANCEL button** if you do not wish to continue. This will close the Feedback screen and return to the Settings screen.

## About



This option shows the current registered owner and serial number of your **HX-1** device.

(The owner and serial number have been blurred in the image below.)



## Bluetooth Menu

---

### Introduction

The **Hema HX-1 Navigator** allows you to connect with a compatible device to output sound (which usually comes out of the internal speaker) to an external device.

The external device would normally have an amplifier and speakers of its own (ie. such as a car audio system, headphones, or a Bluetooth speaker).

Bluetooth wireless technology provides for a number of profiles, which specify certain aspects and behaviour of Bluetooth wireless connectivity between different devices.

There are many profiles associated with the Bluetooth technology; two of the most common seen in vehicles these days are:

1. **HFP** - Hands Free Profile
2. **A2DP** - Advanced Audio Distribution Profile (or Bluetooth Audio Streaming)

The **HX-1** provides support for the A2DP profile only, which allows for the audio output of the **Navigator** to be sent to a device capable of receiving streaming audio (such as a car stereo head unit, or Bluetooth speaker).

In the Bluetooth world, when talking about two devices, generally one device is a master, and the other device is a slave.

For the connection to work, first the two devices need to be **PAIRED**.

Pairing Bluetooth devices establishes a connection between them, often with the use of a numeric code acting as a password. The passcode is often fairly generic by default, but can be customised by the user to provide more security.

Once the two devices are paired, they need to be **CONNECTED** to actually provide the service required. Generally, a device can be paired to many other devices providing the same profile or service (such as media streaming or hands-free), but you can only be connected to one device for that profile at a time. ie. you can have a whole bunch of devices paired, but only one active connection at a time.

With the A2DP profile, one device acts as the master (or source or sending) device, and the other is the slave (or target or receiving) device.

In this case, the **Navigator** is the sender, and the device which outputs the audio is the receiver.

**Remember!**

The Nav button appears on the Home screen in its fixed location, and on other screens in whichever position you choose to place it,

A SHORT TAP on the Nav button will return you to the previous screen at any time.

A LONG TAP on the Nav button will pop up the Nav pane, where you can access **Navigator** device settings, etc.

The button can be dragged to any position on the screen of your choosing, and will remember its location on that screen.

Note that in some of the screenshots seen in this eGuide, the back button has been removed from the image for the sake of clarity.

**Pairing the Navigator with your Bluetooth device**

Bluetooth Settings  
Connect to bluetooth devices

Tap the **Bluetooth Settings** button on your **Navigator** Settings screen to enter the Bluetooth configuration screen.

The first step in getting the **Navigator** connected with the target device is to put the target device into Bluetooth discovery mode. This means that the device will broadcast or advertise itself as being capable of providing certain services.

Usually, when you set the device to be discoverable, you can set a duration to be in this mode. ie. 1 minute, 2 minutes, etc.

**For Your Information**

The method used to configure the target device will vary depending upon the specifics of that device.

The basic process is usually the same, but the exact process by which you arrive at your required configuration may vary.

You should familiarise yourself with the process on the target device before attempting to configure this connection.

When you first enter the Bluetooth Settings screen, Bluetooth is usually switched off, and no Bluetooth devices will be visible as shown below.



Tap the Bluetooth on / off button as shown at (1) above to enable Bluetooth on your **HX-1**.

While the target device (the device you want to connect to) is in the Bluetooth discovery mode, tap the **Search for Devices** button (at 1 above) at top-right of the Bluetooth screen to search for and find the discoverable target device.



While the **Navigator** is searching for nearby Bluetooth devices, you will see indicators displayed on screen (as shown at 1 & 2 above).

If your device responds to the Bluetooth request, it should appear under Available Devices on the **HX-1** Bluetooth screen, as shown above.

When you tap the desired target device to pair with it, you may be prompted for a passkey applicable to that device.

This is dependent on the device you are connecting to, and may or may not be required before you can pair with the device in question.

Enter the key, and the **Navigator** should pair with the target device. You should see an indication that the **HX-1** is attempting to pair with the target, as shown below.

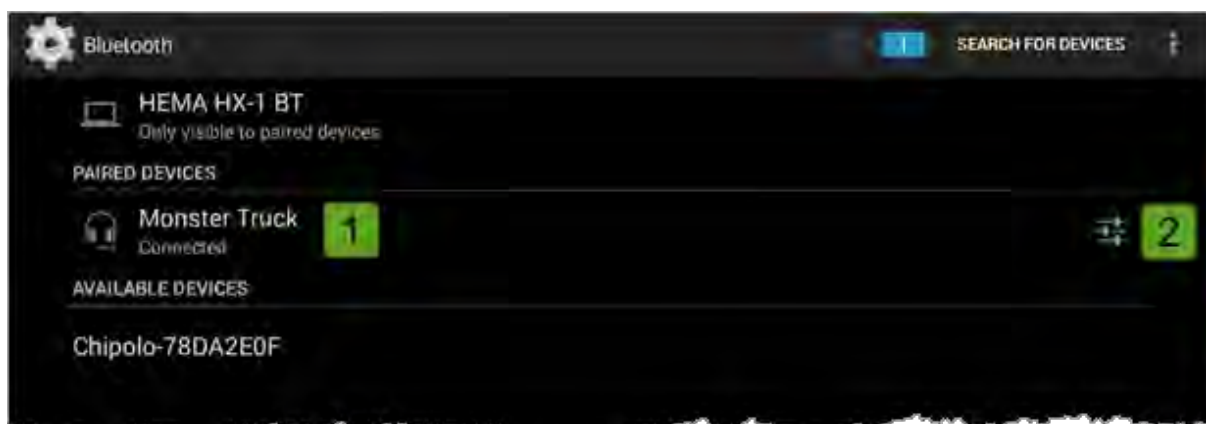


Once pairing is successful, you should be able to connect with the target device.

### Note

Once pairing has been successfully achieved with a given device, the **Navigator** will remember the settings required to connect to that device. Pairing again should only become necessary if something changes on the other device (ie. the other device's name or passkey is changed, etc.).

Tap on the device name under Paired Devices to connect, and you should see that the paired device is now successfully connected, as shown at (1) below.



Depending on the target device, you may also see a Settings button, as shown at (2) above. The Settings button allows you to make some changes to the entry related to the target device on your **Navigator**.

The settings and options available will be dependent on the target device's capabilities, but an example of what these settings might look like is shown below.





A typical option is one which allows you to rename the target device.

For example, you may have two vehicles whose Bluetooth ID defaults to "My Car". If you have paired with both vehicles, you might see two entries for "My Car". This may be confusing.

So, you might rename one entry "My Blue Car", and one "My Red Car", so that you know where you are.

You might also no longer have the paired device (you might have sold the device, for example), so you might not wish to keep the old device around. You can tidy things up by using the **Unpair option** in this case.

---

## Media Manager

The **HX-1** has a camera allowing you to capture images and video.

These functions are accessible from the home screen and from the Nav panel, by tapping the **Media Manager button**.

By default, Media Manager captures your images, and stores them on the internal storage of the device.

You can also configure your **HX-1** to store all images and video on a MicroSD card, which can be installed in the slot on the side of the **HX-1**. This is done using the [Save to External Storage option](#) under the [Settings screen](#).

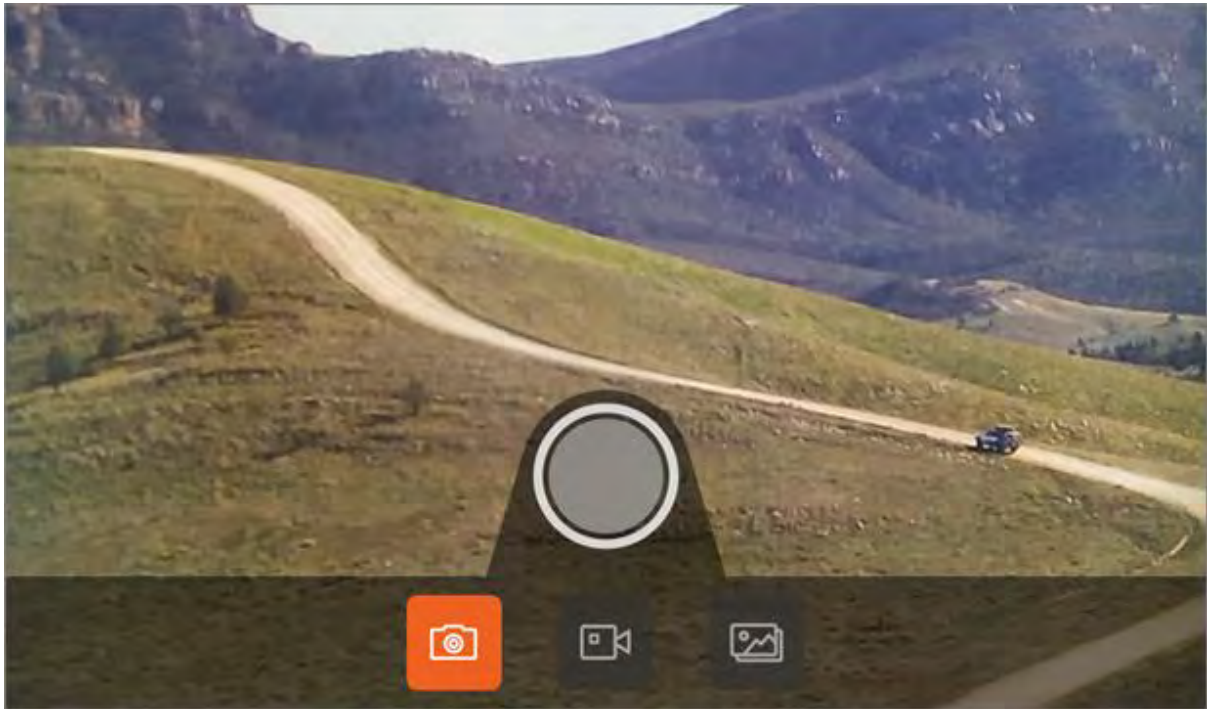
### Warning!

The Media Manager uses the **Pictures folder** to store images and videos on both internal and external (SD Card) storage. If you have pre-existing content on a MicroSD card, and want to use it in the **HX-1**, note that the **HX-1** will not "see" the existing content until:

- The **Save to External Storage option** is switched ON under device settings.
- The existing images are copied to the **Pictures folder** on the MicroSD card
- At least ONE image is captured using the Media Manager (which triggers a refresh of the storage folders).



Once the Media Manager screen opens, there are several controls visible, as shown below.



**Note**

These screenshots have been captured without a background image to improve clarity.



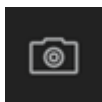
### 1. Capture button



The Capture button performs one of two functions, depending which mode you are in, Image or Video.

If you are in Image mode, it will capture a single image. If you are in Video mode, it will start / stop recording.

### 2. Image mode button

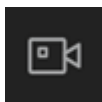


Switches the Media Manager to Image mode.

When Image mode is inactive, this button is GREY. When Image mode is active, this button is ORANGE.

This allows you to capture still images with the camera in the **HX-1**.

### 3. Video mode button



Switches the Media Manager to Video mode.

When Video mode is inactive, this button is GREY. When Video mode is active, this button is ORANGE.

#### Tip!

If you intend to record video to a MicroSD card, you should generally use a higher CLASS card.

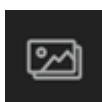
Generally, the class of an SD card determines its performance, specifically the write speed.

The higher the class, the higher the write speed (you can pretty much equate the class number to the number of megabytes per second the card can handle).

If you use an SD card of class 4 or lower, you may experience issues with video capture, due to the card's performance characteristics.

In saying that, most brand name SD card sold these days are usually of higher classes.

### 4. Gallery button



Opens the gallery, where you can browse / view captured images and video.

#### Warning !

Images and video captured using the Media Manager function within your **HX-1** are not synced to the Cloud or backed up automatically in any way.

To avoid data loss, it is suggested that you connect your **HX-1** to a PC, and copy any media you have captured if you wish to keep it permanently.

See [this section](#) of this eGuide for details on connecting to your PC.



# Drive

## Introduction

The **Drive Mode** app on your **HX-1** is similar to the software which runs on a typical street mode only navigation device.

It allows you to see where you are on a stylised map, and enter an address or a point of interest as a destination that you wish to travel to.

### Starting DRIVE mode on the HX-1

#### Remember!



The Nav button appears on the Home screen in its fixed location, and on other screens in whichever position you choose to place it,

A SHORT TAP on the Nav button will return you to the previous screen at any time.

A LONG TAP on the Nav button will pop up the Nav pane, where you can access **Navigator** device settings, etc.

The button can be dragged to any position on the screen of your choosing, and will remember its location on that screen.

Note that in some of the screenshots seen in this eGuide, the back button has been removed from the image for the sake of clarity.



Tap the **Drive button** from your **HX-1** Home screen to start the Drive app.

The app will display a startup banner screen while it is loading, showing a progress bar as it starts as indicated at (1) below.



Once the app has started, you will see the Main screen.

This eGuide contains the following sections.

1. On-Screen Keyboard
2. Configuration Wizard
3. Main Screen
4. Location Indicator
5. Main Menu
  1. Useful Information
    1. Where Am I
    2. Help Nearby
    3. Country Information
    4. Trip Monitor
    5. Sunrise & Sunset
    6. GPS Information
  2. Settings
    1. Route Preferences
    2. Sound
    3. Warnings
    4. Navigation View
    5. Regional
    6. Display
    7. Trip Monitor
    8. Start Configuration Wizard
  3. About
6. Routing
  1. Simple Routes
  2. Multipoint Routing
7. Searching



1. Searching for an Address
  2. Searching for a Place (POI)
  3. History
  8. Trip Computer
-

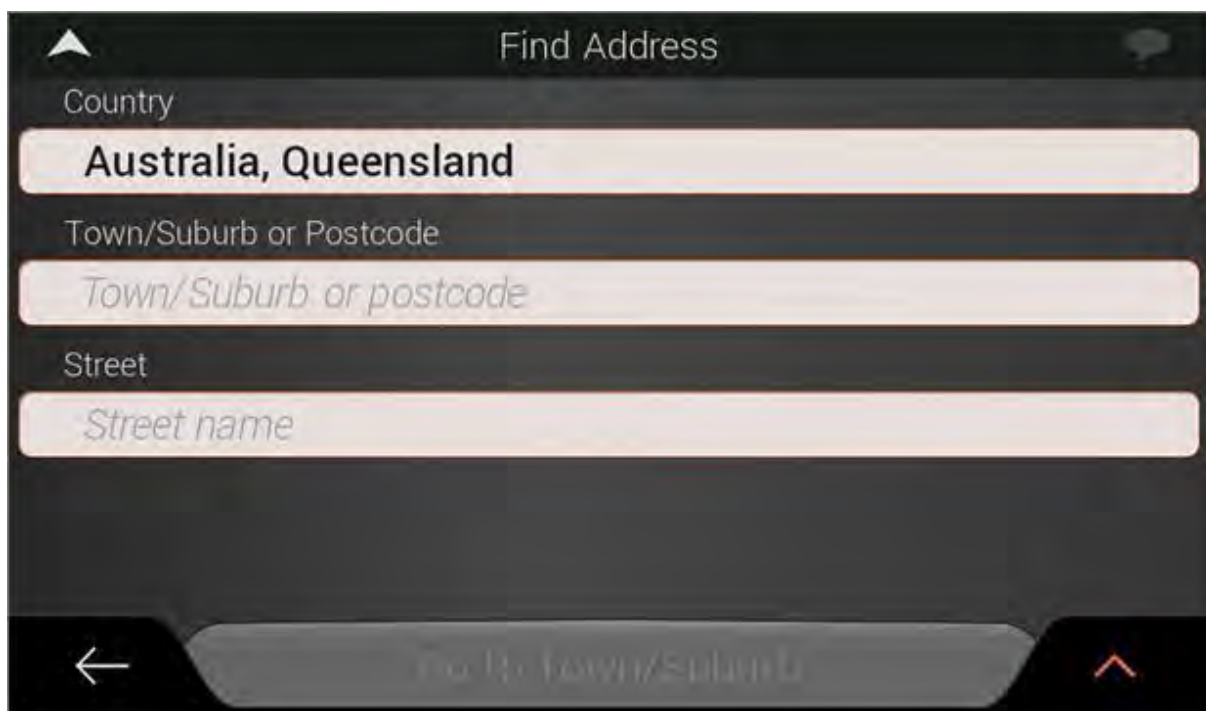
## On-Screen Keyboard

In the **Drive** app, wherever text input is required, the On-Screen Keyboard will appear.

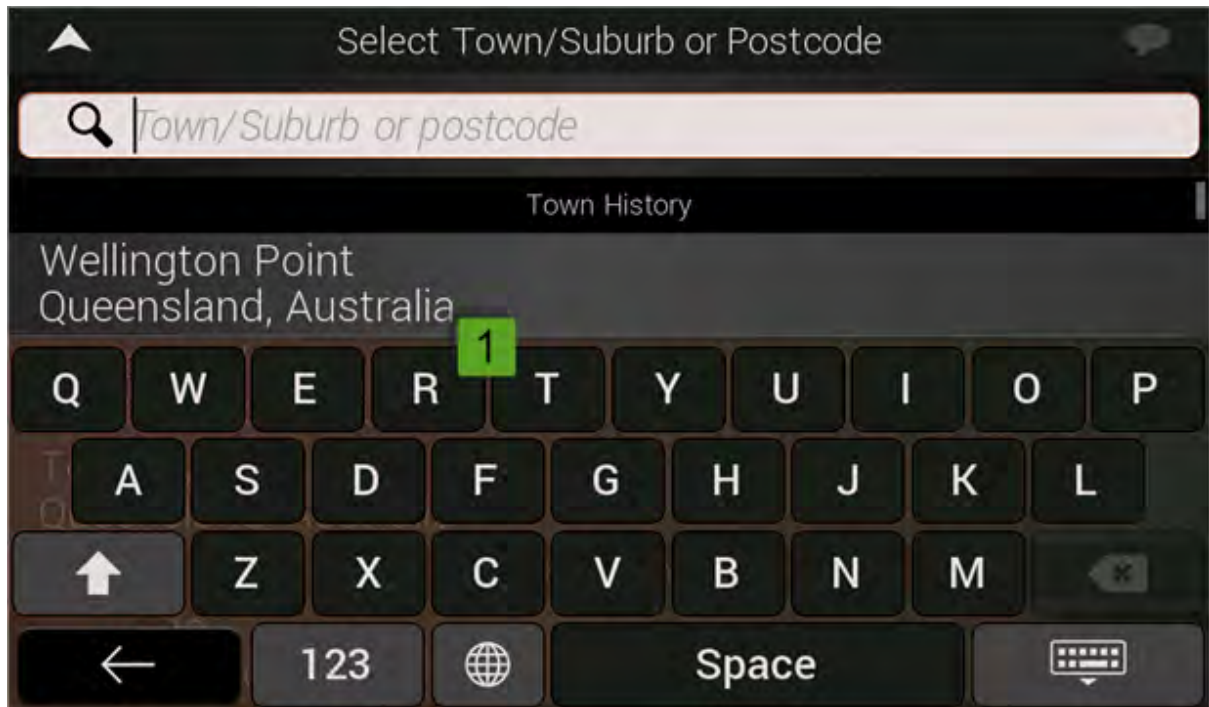
The On-Screen Keyboard is a smart keyboard.

For example, if the text input is for a town within a certain state, keys on the keyboard will be active or inactive depending on the letters typed already.

See the following example. We are entering an address to navigate to, so we have opened the **Find Address screen**. Then we've tapped in the Town/Suburb or Postcode field to enter the town we wish to navigate to.



As soon as you are in a text input field, the On-Screen Keyboard appears, as shown below.



In our example, here, we are searching for Roma in Queensland, so we type an "r" on the keyboard.

As soon as we do this, the keys which are not valid after "r" are dimmed, and become inactive, as shown below. The only active keys are those for which there are towns starting with an "r", which have any of those letters as the second letter in their name.

This process continues with each letter that you type.



In many cases, after typing a few letters, you will be shown a list of matches to what you have typed so far, which you can select directly from the list.

### Special buttons which are part of the on-screen keyboard

There are several buttons which perform special functions on the keyboard.

#### Shift button



The shift button allows you to input capital letters (when typing a name, for example).

#### Hide Keyboard button



The **Hide Keyboard button** will slide the keyboard away so that you can see the contents of the screen, if it has been concealed by the keyboard. To show the keyboard again, tap on any text entry field.

### Keyboard Language button



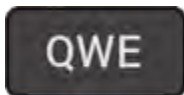
The Keyboard Language button allows you to choose specific keyboard layouts for the language of your choice.

### Number Keys button



When in Alphabetical Input mode, the **Number Keys button** changes to numerical input mode.

### Alpha Keys button



When in Numerical Input mode, the **Alpha Keys button** changes to alphabetical input mode.

---

## Configuration Wizard

The first time you start **Drive Mode** on your **HX-1**, the *Configuration Wizard* runs.

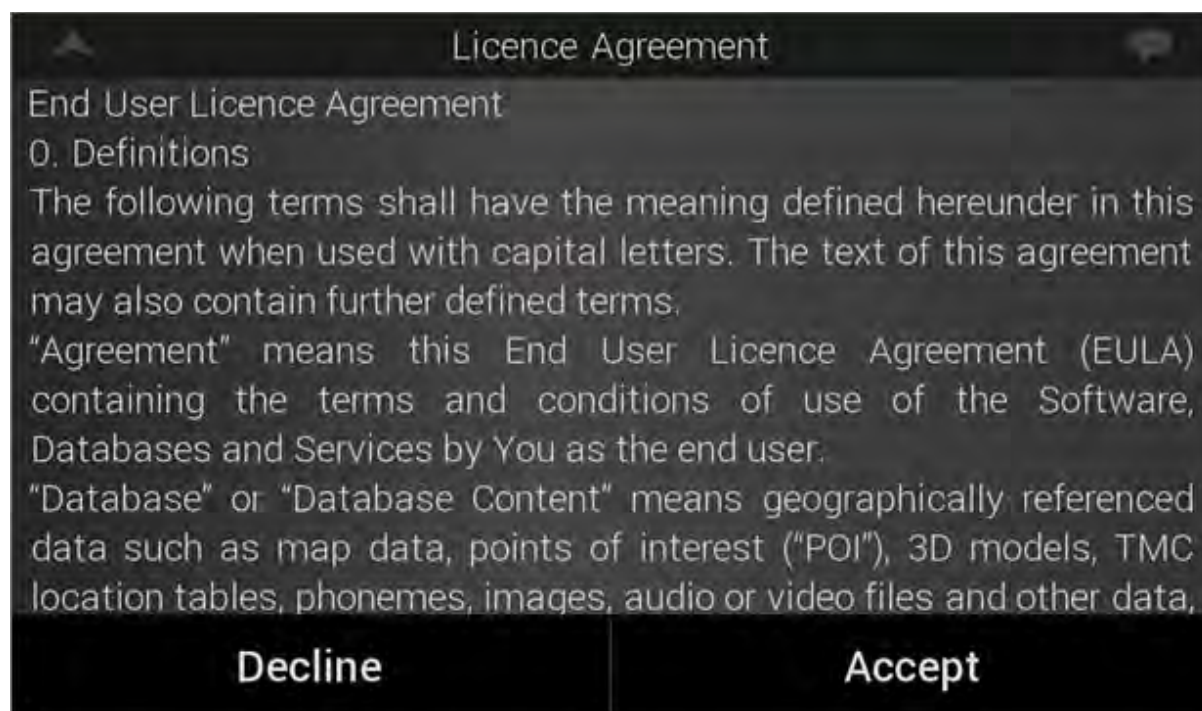
The job of the *Configuration Wizard* is to configure **Drive** with some sensible default values, and also to allow you to select the way the **Drive** app functions, according to your wishes.

### Note

The individual options that you set via the *Configuration Wizard* can be changed later via the Settings screen.

If required, you can also re-run the *Configuration Wizard* later from the Settings screen.

The first screen in the *Configuration Wizard* displays some text describing the license agreement you are entering into in the use of the **HX-1**, which you should scroll through and read, and then tap the **Accept button** to continue to the next screen.



This screen is a brief introduction, and a reminder that you can re-run the *Configuration Wizard* at any time later if you want to.

Tap the **Next button** to continue.

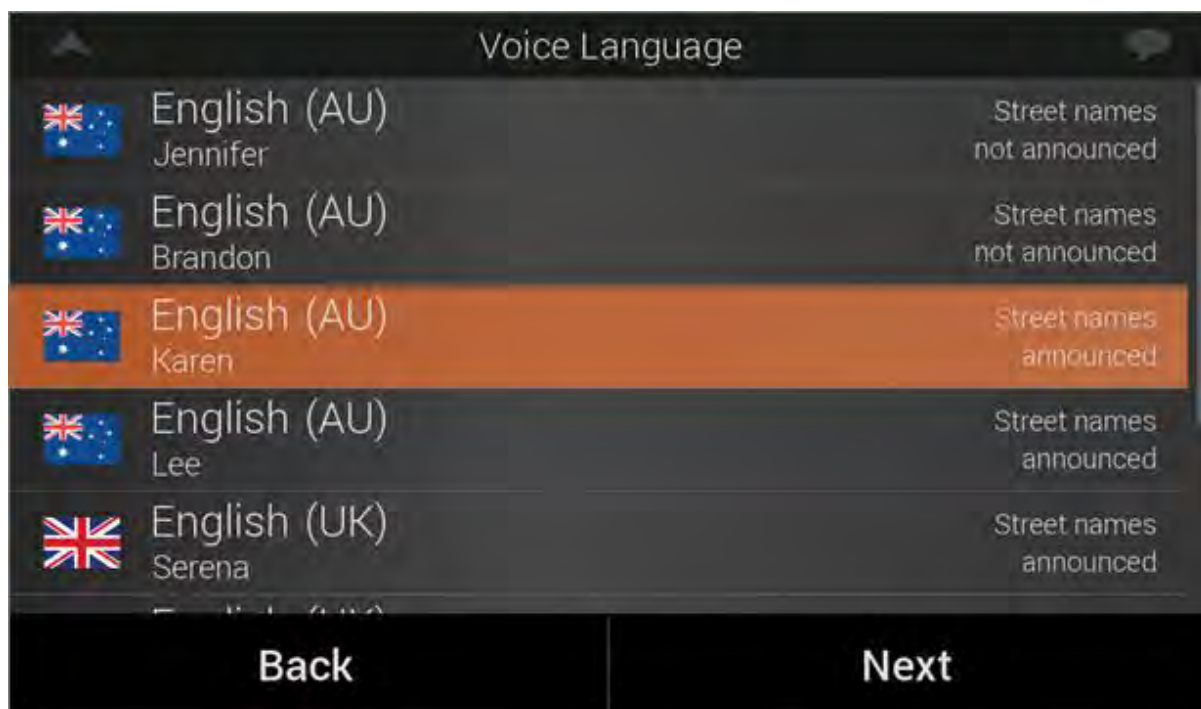


Choose the spoken voice language and style you like. Note that some voices will pronounce street names and some will not. Generally, voices which pronounce street names are slightly robotic in nature (as they are performing text-to-speech on street names, they are not naturalistic voices). Voices which do not pronounce streets are closer to natural sounding human voices.

Remember you can change your selection any time later, from the [Voice Language section](#) of the [Regional Settings screen](#).

Once you are happy with your selections, tap the **Next button** to continue.





Choose which units and formats you wish **Drive** to use when displaying various data.

Remember you can change your selection any time later, from the [Units and Formats section](#) of the [Regional Settings screen](#).

Once you are happy with your selections, tap the **Next button** to continue.

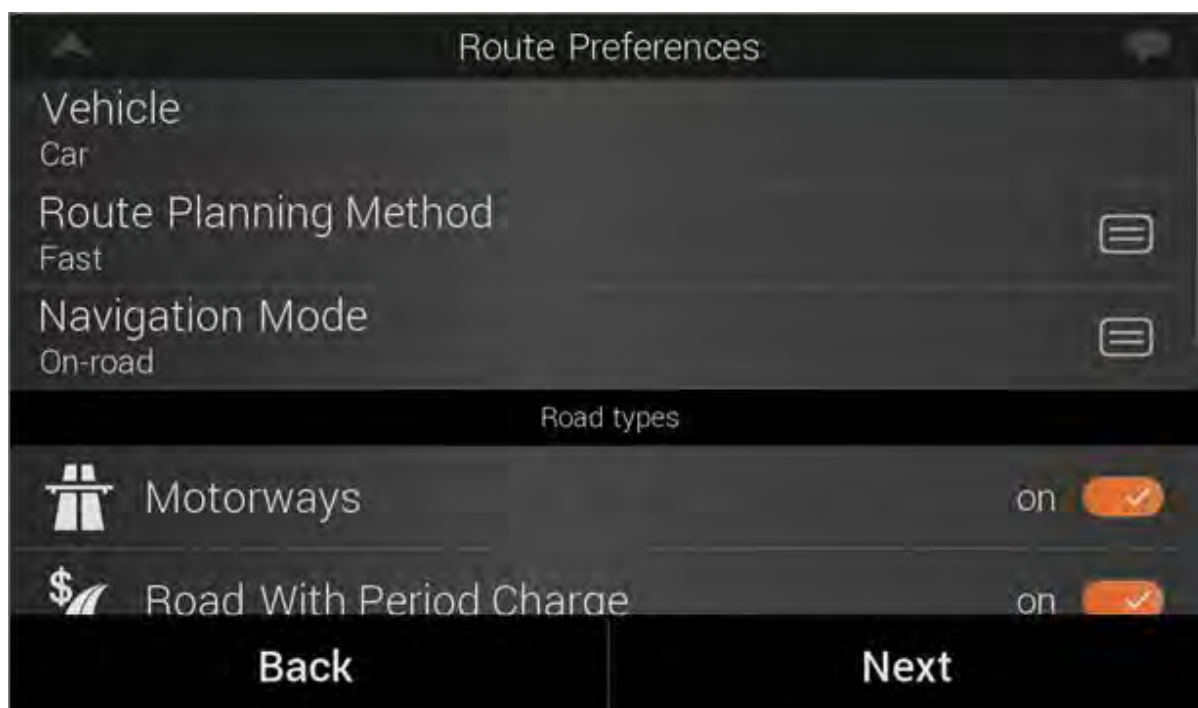


Next, choose the settings which determine the route you will take when navigating to a destination.



For a full description of what these options do, see the [Route Preferences section](#) of the [Settings screen](#).

Once you are happy with your selections, tap the **Next button** to continue.



You will see a short summary at the end of the *Configuration Wizard*.

Tap the **Finish button** to complete the process.



## Main Screen

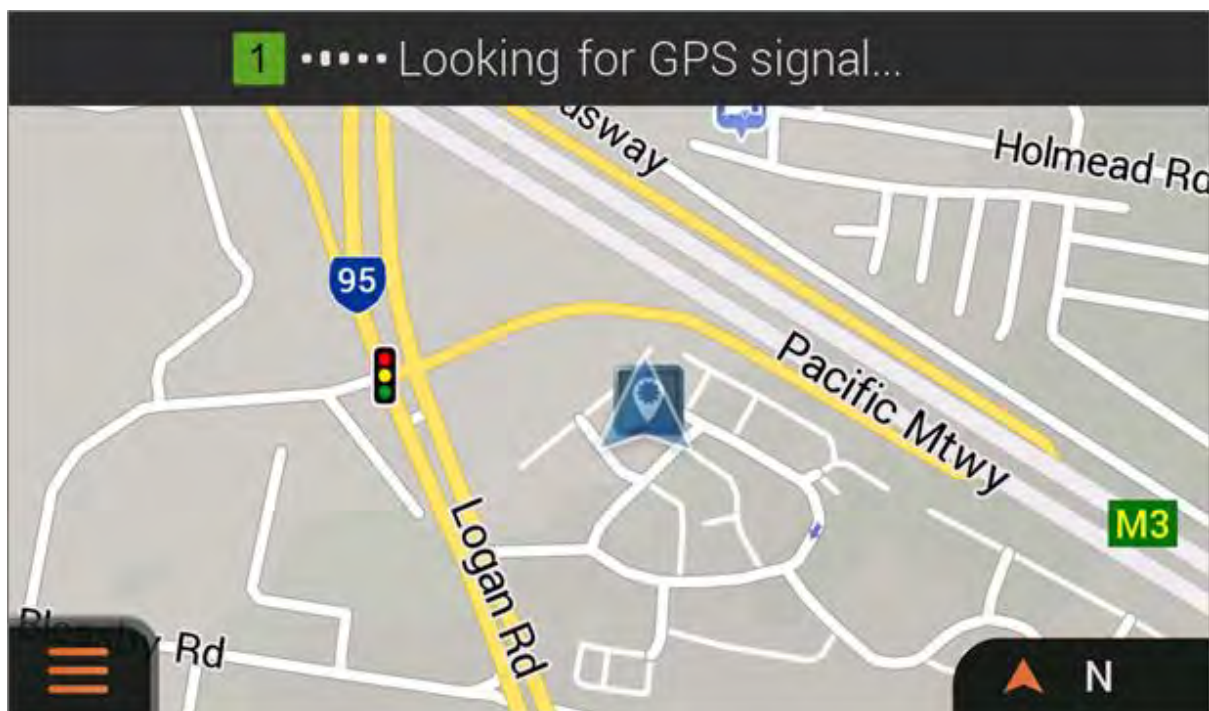
The Main screen of the Drive app, is the primary view of operations while in Drive mode on the **HX-1**.

The main screen will look different depending on whether you are currently routing to a destination or not.

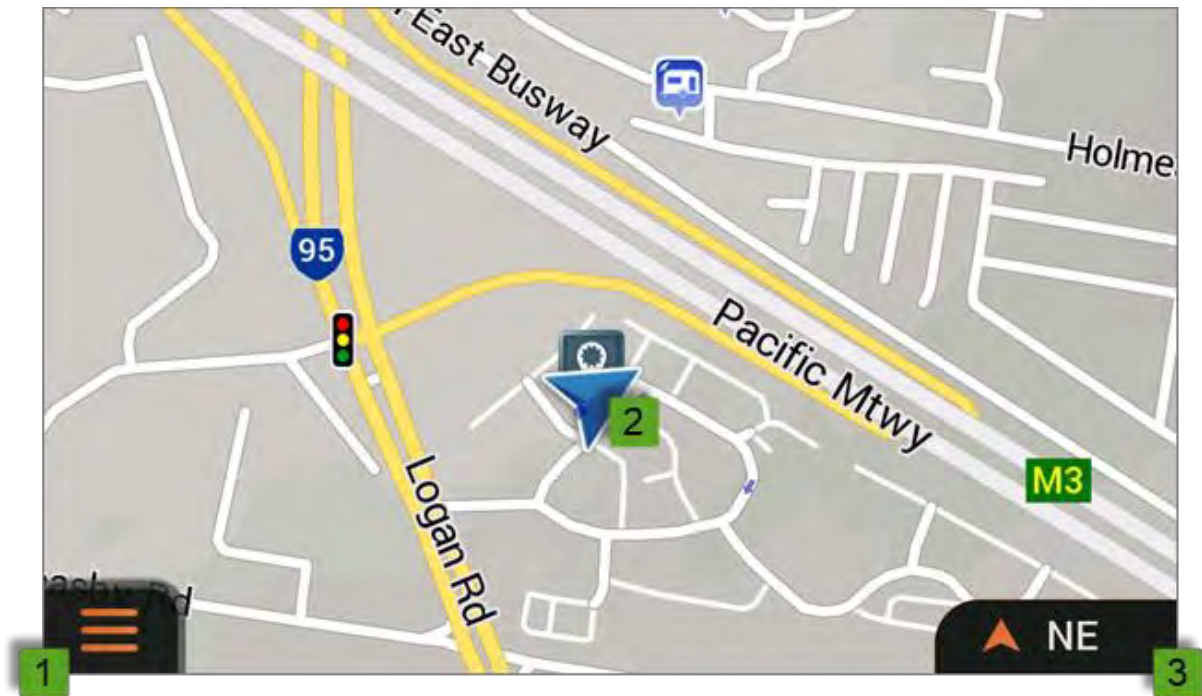
The two views are described in the sections below.

1. **Main screen view when not navigating**
2. **Main screen view while routing to a destination**

The Main screen shows your current location (providing the **HX-1** has a satellite location fix). If no satellite fix has been obtained, you will see a status message at the top of the screen as shown at (1) below. You might also notice that the location indicator is translucent in this case.



The message and location indicator translucency will persist until the **Drive** app obtains a GPS fix.



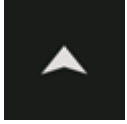
The primary features of the main screen are. Click the items for more information.

1. [Main Menu button](#)
2. [Location indicator](#)
3. [Trip Computer button](#)

See the following sections of this eGuide for details on these items.

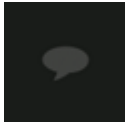
### Note

Whenever you change away from the main screen to any other screen, a number of buttons become visible which are common to some or all of these other screens. These buttons are



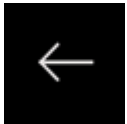
### Quick Jump to Main Screen button

This button will instantly transport you back to the Main screen, no matter where you currently are within the **Drive** app.



### Notification button

This button will activate when there are pending messages related to the **Drive** app. Tap the button to see the message(s).



### Back button

This button will jump back one screen from wherever you currently are within the **Drive** app.

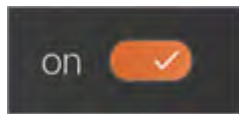
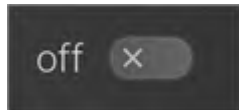


### Menu button

When active, this button will display a popup menu with options related to the current screen. If there are no options available on the current screen, the button will not become active.

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In addition, there are a number of buttons which will appear in various location which allow you to choose options.



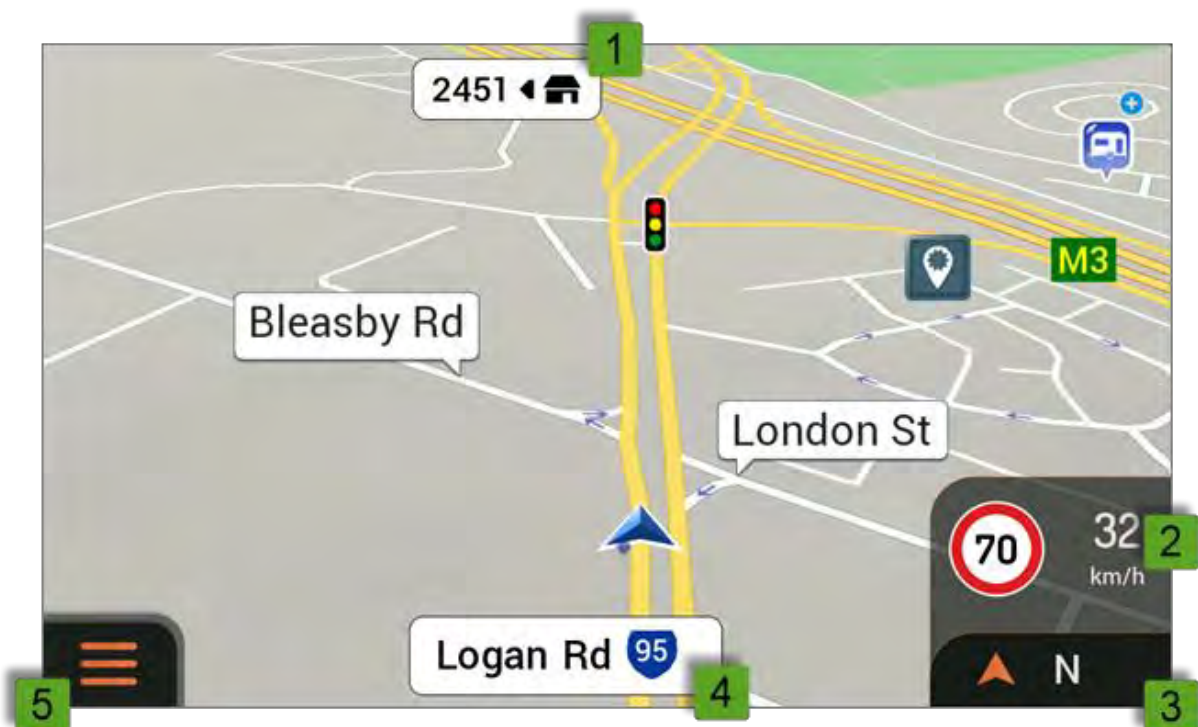
When you see either of the above buttons, they indicate that a specific option is switched ON or OFF.



This button indicates that there is a setting which has more than one option to choose from. When you tap this button, a menu will pop up displaying the options you can choose from.

### Main screen view when not navigating

If you are just "driving around" and you have the **Drive** app running, it will display a typical screen as shown below.



Some of the basic features of this view are:

1. House / Property numbers on either side of the current street / road



2. Current Speed limit (if switched on under Settings) and actual vehicle speed (this panel will flash red if the speed limit is exceeded and **visual warnings** are switched on)
3. Current heading
4. Name of road you are currently on
5. Main Menu button

### Main screen view while routing to a destination

If you are navigating to a destination and you have the **Drive** app running, it will display a typical screen as shown below. The screen while navigating has several additional features, which are described below.



Some of the basic features of this view are:

1. The name of the road where the next manoeuvre is to take place
2. The distance to, and symbol representing the next manoeuvre
3. If there is a manoeuvre very soon after the next manoeuvre, it is shown here
4. The **Route Progress bar**, which shows your progress along the current route, represented in simple graphic terms. The Route Progress bar can be turned on and off as part of the **Navigation View settings**
5. Current Speed limit (if switched on under Settings) and actual vehicle speed (this panel will flash red if the speed limit is exceeded and **visual warnings** are switched on)
6. The data fields in the lower-right corner of the screen represent (from the top):
  - The time you will reach the route destination
  - The duration of the route (the amount of time left to travel)
  - The distance before reaching the destination.

The data displayed here can be customised under the [Navigation View settings](#).

7. The Name of road you are currently on
8. Main Menu button

## Motorway Services

The Motorway Services feature can be a handy way for you to determine whether you wish to exit a motorway while travelling. ie. Whether there is a service station handy, or a food stop.



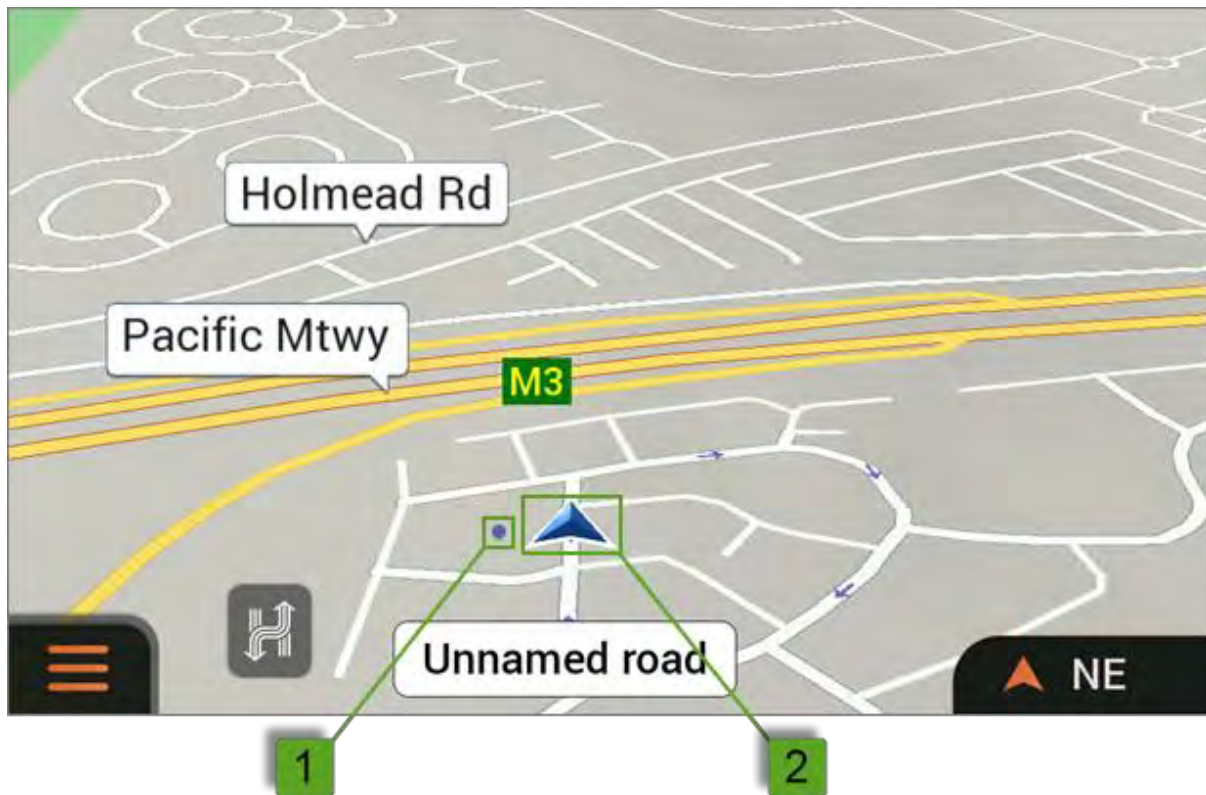
If you see the **Motorway Services button** appear on screen while travelling along a motorway, you can tap it to see a list of services which are available at the next exit (such as service stations, restaurants, etc.).

The services list pops up in a small panel at lower-left of the map screen, as shown at **1** below.



## Location indicator

The Location indicator marks the **HX-1**'s location on the road.



The Location indicator actually has TWO components.

1. The actual location
2. The location on the nearest road

The **Drive** app will always try to draw your vehicle position on a road (when in On-road **Navigation Mode**), even if you are slightly off the road.

Sometimes you may see the actual location is slightly different to the vehicle location as depicted on a road, for example, when your car is parked at the end of a driveway, or you pull off a highway into a service station, etc.



## Main Menu

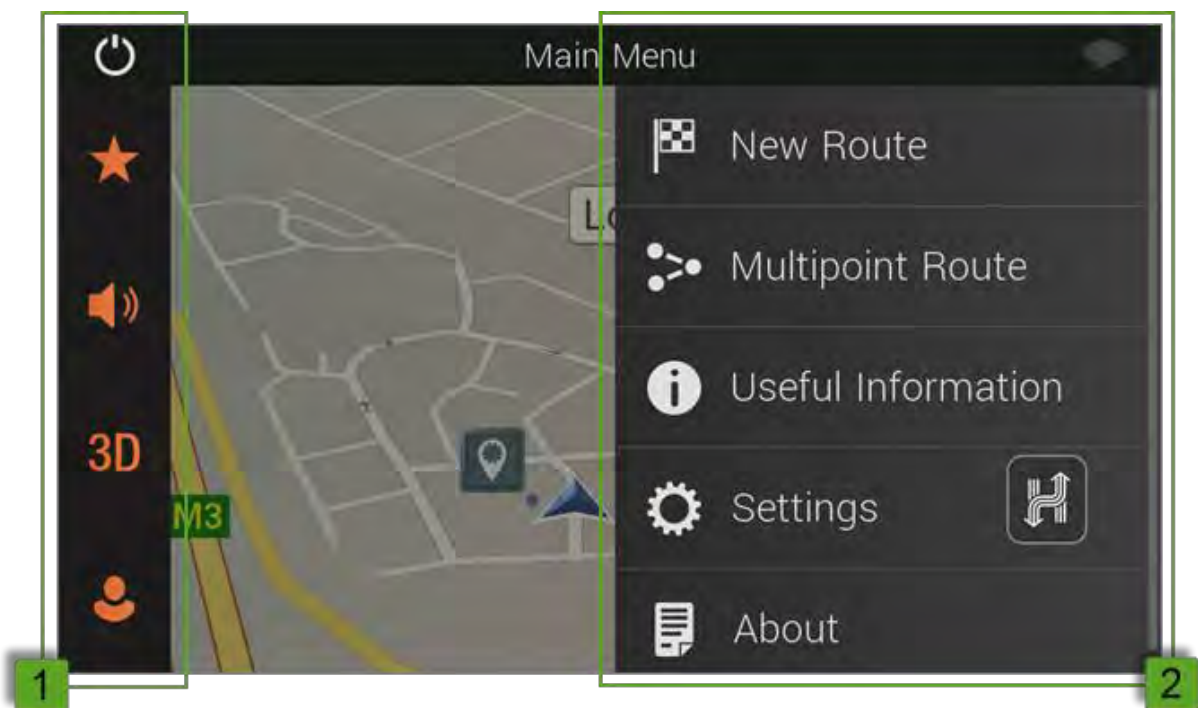
### Main menu

The Main menu within the **Drive** app is where you go to perform many functions and set options for use.



The Main menu appears when you tap the Main menu button, which is located at the lower-left corner of the Main screen within **Drive**.

There are two components to the Main menu, these slide out from the left and right sides of the screen, as shown below.



1. Quick options
2. Main options

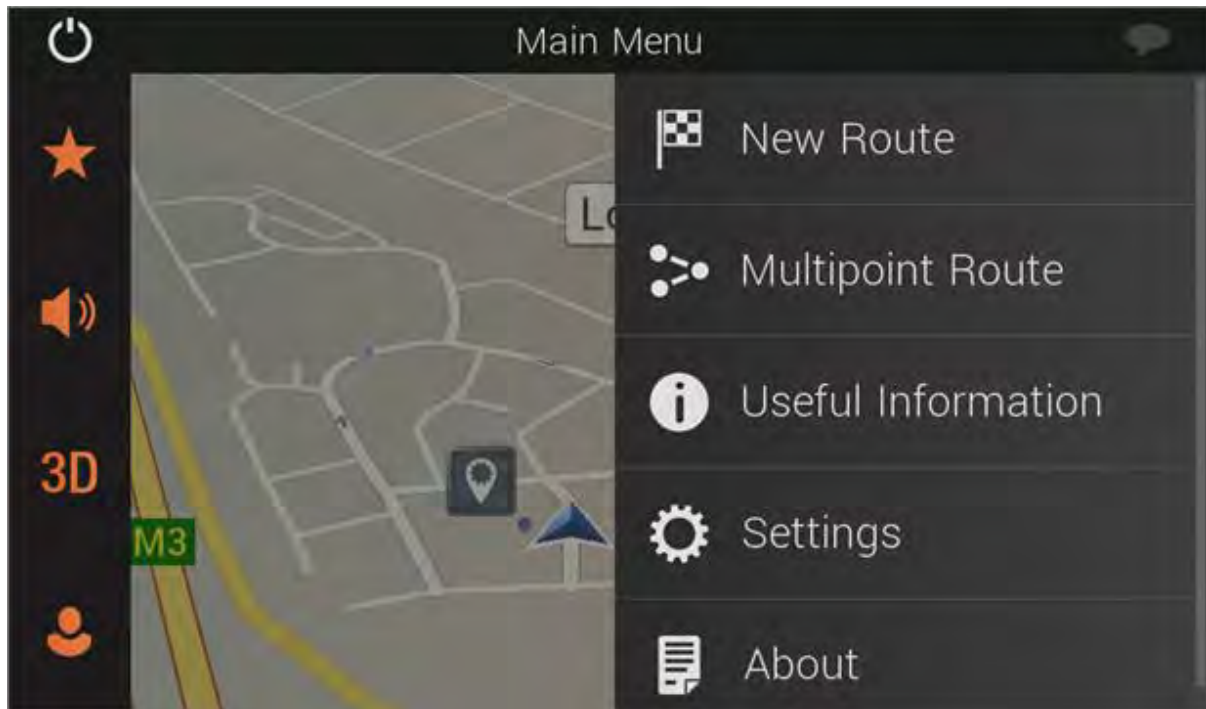
When the Main menu is displayed, you can put away the Main menu and return to the Main screen of **Drive** in several ways:

- You can swipe from the center out to the left or right of the screen
- You can tap the map panel in the middle of the two parts of the Main menu
- You can tap the Nav button to go back, which will close the Main menu

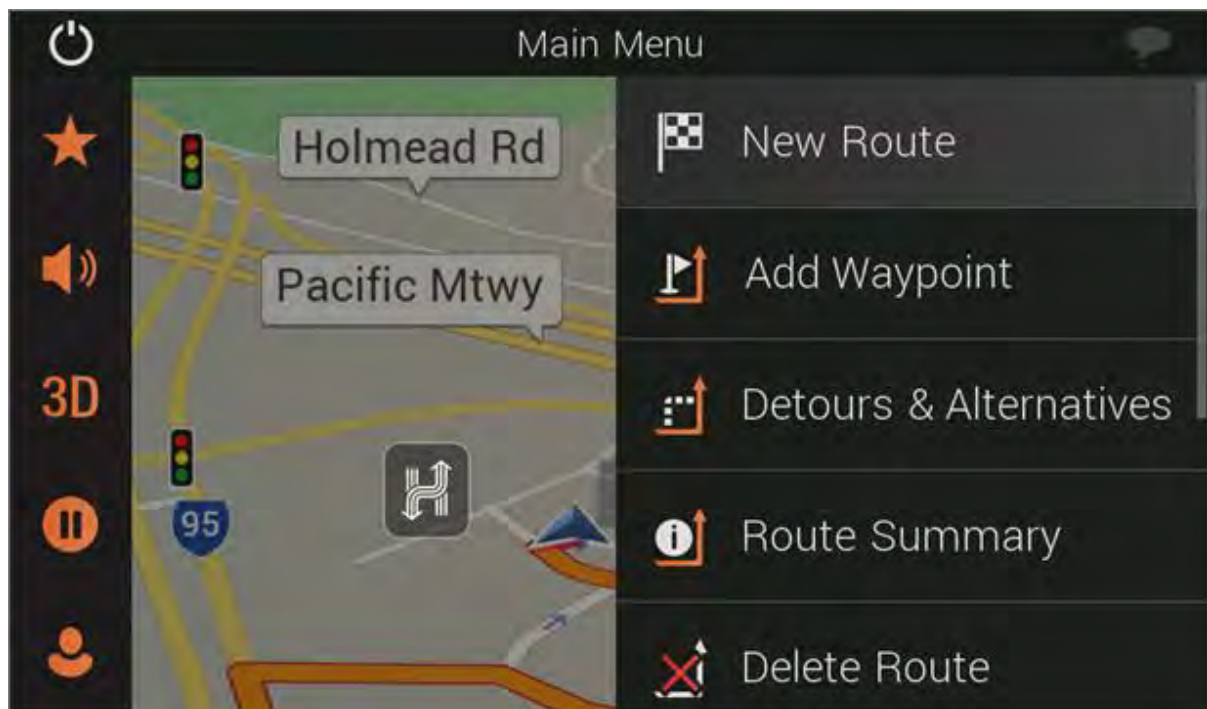
## Main menu "modes"

The Main menu has two "modes", which affect the options and buttons which appear on it.

In the first mode, the Main menu appears as below when you open it. In this mode we are NOT navigating to a destination.



In the second mode, we ARE navigating to a destination, and the options available from the Main menu change to reflect this. While routing, several new buttons become available between the top two standard options (**New Route** and **Multipoint Route**)



All of these options are discussed in more detail below. If the option is specific to a routing mode, it will be marked as such.

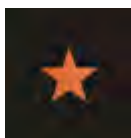
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### Quick options

#### Exit

Exit the **Drive** app, and return to the **HX-1** main menu.

#### Saved Locations (favourites)

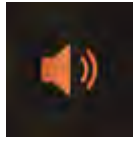


Quickly jump to your list of Saved Locations, where you can instantly create a route to the selected location.

#### Sound Mode

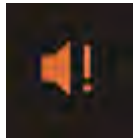
Tapping the **Sound mode button** will cycle between the 3 possible sound states for the **Drive** app.

### Normal mode



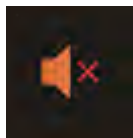
In this mode, all audio is as specified in the [Sound settings](#).

### Alert Only mode



In this mode, only alerts will be heard (and not general guidance audio).

### Mute mode



In this mode, no audio will be heard at all.

### Map Mode

The Map Mode button cycles between different views of the map within the **Drive** app.

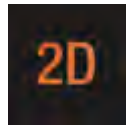
#### 3D [Default]



This is the default option

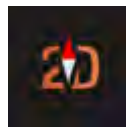
This mode is the default view of the map, where the map is viewed as a 3D terrain from a point of view slightly behind your position marker.

## 2D



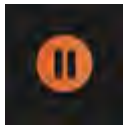
In 2D mode, the map is viewed from directly above. Your position marker is slightly below center of screen. The map rotates in the direction of travel (Course-Up mode).

## 2D North Up



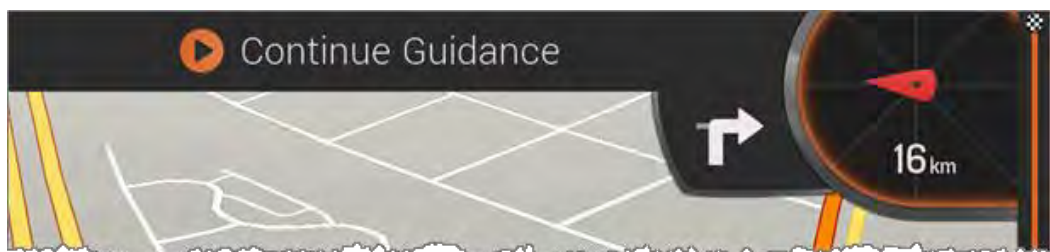
2D North Up mode is the same view as 2D mode, however, the map will **not** rotate in your direction of travel, but will remain fixed with north at the top of the screen (North-Up mode).

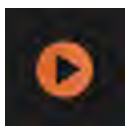
## Pause



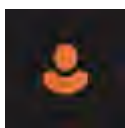
### Routing mode only!

Tapping this button will pause an active route. This button is only visible when a route is active. While paused, the Main screen will also display a status message at the top of the screen, as shown below.



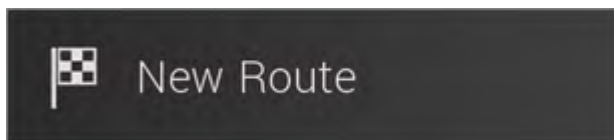
**Continue****Routing mode only!**

Tapping this button will continue a route which has been paused. This button is only visible when a route is active.

**User Profile**

Tap the **User Profile button** to open the User Profiles screen.

See the [User profiles section of this eGuide](#) for details on using User profiles.

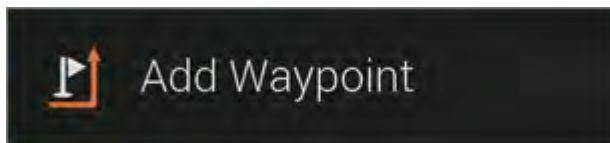
**Main options****New Route**

Create a route to your destination by doing one of the following

- entering an address
- entering coordinates
- selecting a Place
- selecting a Saved Location (favourite)
- selected a Saved Route
- select a previously found destination from your [History](#)

See the [Routing section of this eGuide](#) for more information on creating simple and multipoint routes.

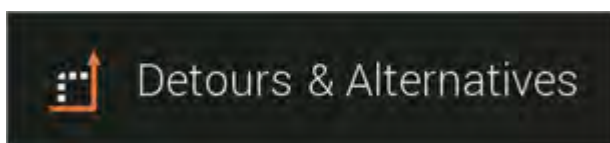
### Add Waypoint



**Routing Mode Only!**

If a route is active, add another destination, either as a stop on your way to the original destination, or as a new end point AFTER the current destination.

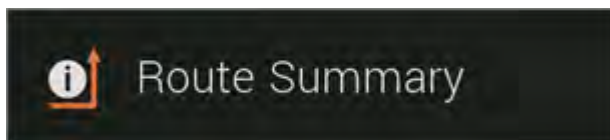
### Detours & Alternatives



**Routing Mode Only!**

Set route alternatives to avoid parts of the route, or to avoid a specific road from your planned route.

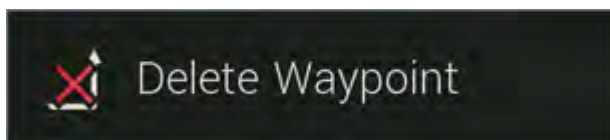
### Route Summary



**Routing Mode Only!**

Display a summary or overview of the currently active route.

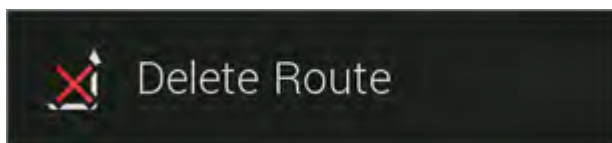
### Delete Waypoint



**Multipoint Routing Mode Only!**

If you are navigating along a multipoint route, you can delete either the next (upcoming) waypoint, or the whole route using this option.

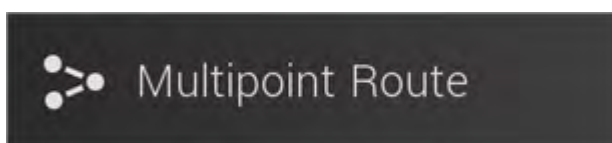
## Delete Route



### Routing Mode Only!

If you are navigating along a single destination route, tapping this button will prompt to delete (and thus, end) the current route.

## Multipoint Route

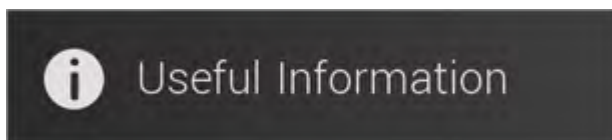


Create a route with as many points as required (as opposed to a simple route with only a single start and end point).

If you are already navigating along a simple route, you can convert it to a multipoint route "on the fly", while navigating, using this option.

See the [section on Multipoint Routing in this eGuide](#) for details.

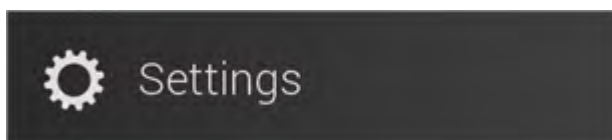
## Useful Information



This menu item presents a list of options to help discover useful information around your current location.

See the [Useful Information section of this eGuide](#) for full details.

## Settings

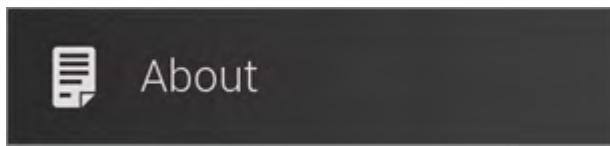


This menu item presents a list of options to configure the **Drive** app to suit your preferences.

See the [Settings section of this eGuide](#) for full details.



## About



This displays the **About screen**, which displays information related to software licenses, version numbers, legal disclaimers, and so forth.

See the [About section of this eGuide](#) for full details.

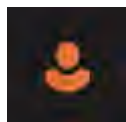
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## User profiles

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Using User profiles, each user of the **HX-1** can maintain their own settings within the **Drive** app.

If there are multiple drivers using the same **HX-1** in the same vehicle, each driver can have their own settings loaded, so they are able to use **Drive** set up and configured the way they like it.

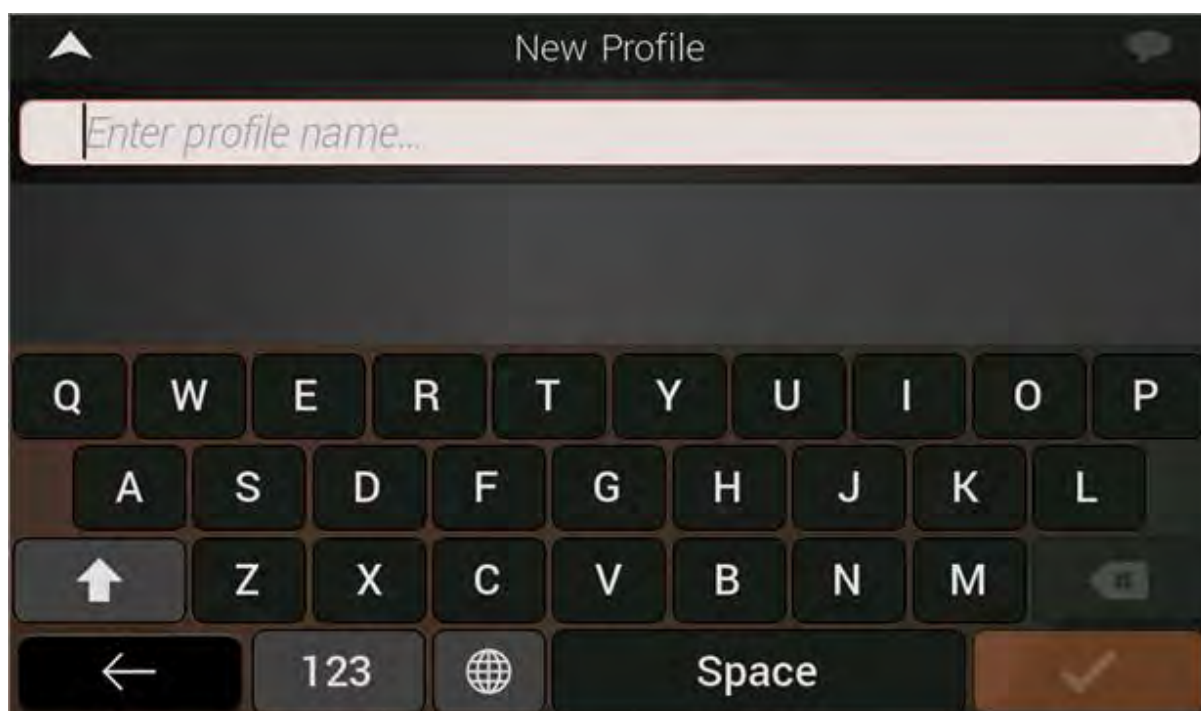


Tap the **User Profile button** from the Main menu's left-hand panel to open the User Profiles screen.



In **Drive**, there is always one profile, called the default profile. The default profile is always active (denoted by the tick mark next to it in the User Profiles screen). There can be many profiles, but there can only be **ONE active profile**.

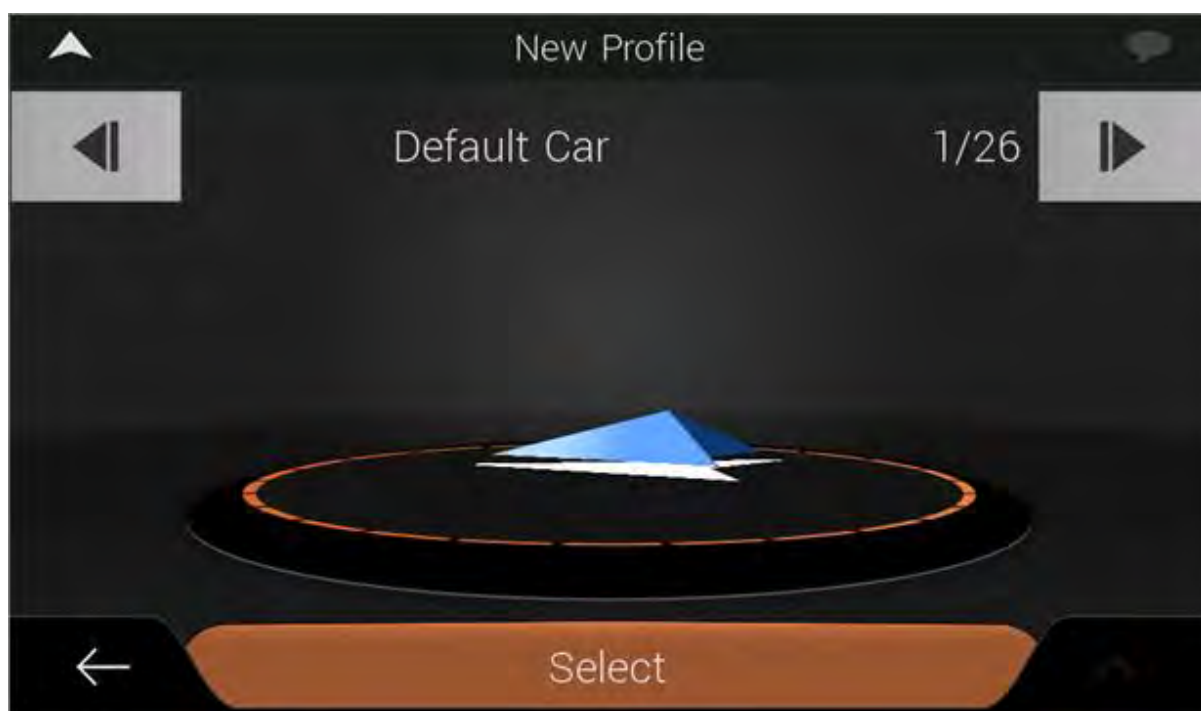
Tap the **Create New Profile button** to create your own profile.



Enter a **Name** for the new profile (obviously *your* name would be an ideal choice here!).



Once you are happy with your name, tap the **Tick button** on the keyboard.



Then, choose the vehicle icon you would like to use for your profile. Use the left and right arrow buttons to cycle through the available icons.

Tap the **Select button** when you are happy with the icon selected.



Your profile will then be created, and you can select it from the User profiles screen. Remember the active profile is the one with the tick mark beside the name.

Once you have chosen a profile, and made it active, any changes made to settings, etc. will "stick" to that user profile.

If you change to another profile, the settings (voice guidance, map colours, saved locations, history, etc.) will change to those which were set when that user profile was active.

### Editing and Deleting Profiles



Tap the **Menu button** to open the **User Profiles menu**.

From this menu you can do the following:

### Delete Profile

Delete the selected profile

#### For Your Information...

You cannot delete the current active profile. If you wish to delete a profile, make another profile active before attempting to delete it.

You cannot delete the last remaining profile. If there is only one profile, it MUST be active, and therefore you cannot delete it.

### Change Car Model

Change the car model for the current profile

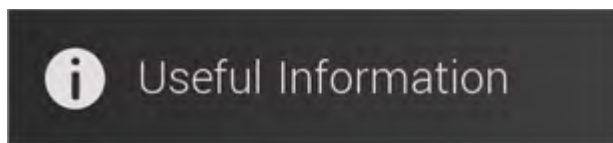
### Change Name

Change the name of the current profile

---

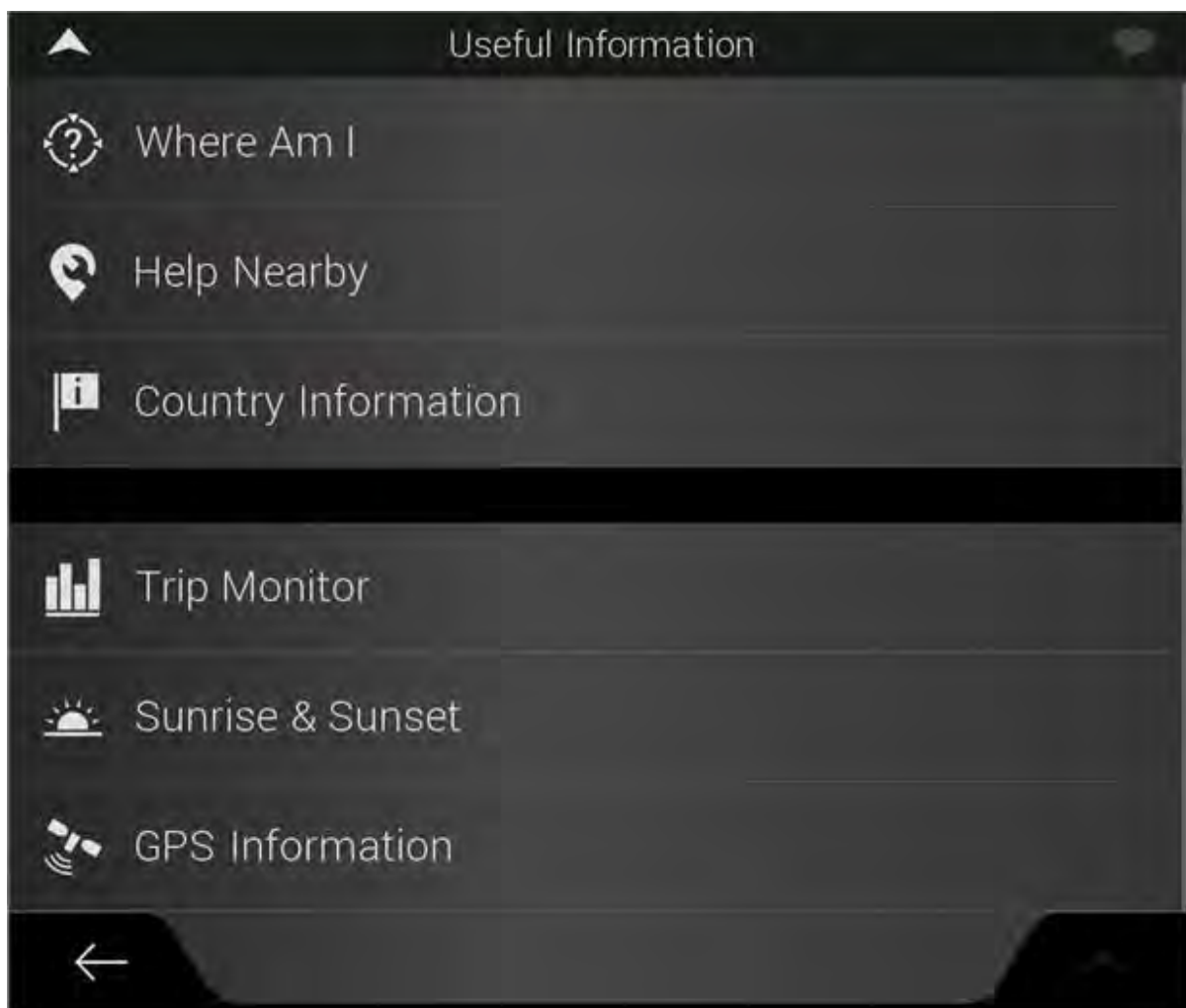
## Useful Information

### Useful Information



The **Useful Information screen** contains many useful pieces of information, often related to your current location. For example, no matter where you are, you can find the closest mechanic or medical facility, and navigate directly to it.

Tapping the **Useful Information button** from the Main menu displays the Useful Information screen, as shown below.



Each option is explained in it's own topic, accessible from the list below:

1. [Where Am I](#)
2. [Help Nearby](#)
3. [Country Information](#)

4. Trip Monitor
  5. Sunrise & Sunset
  6. GPS Information
-

## Where Am I

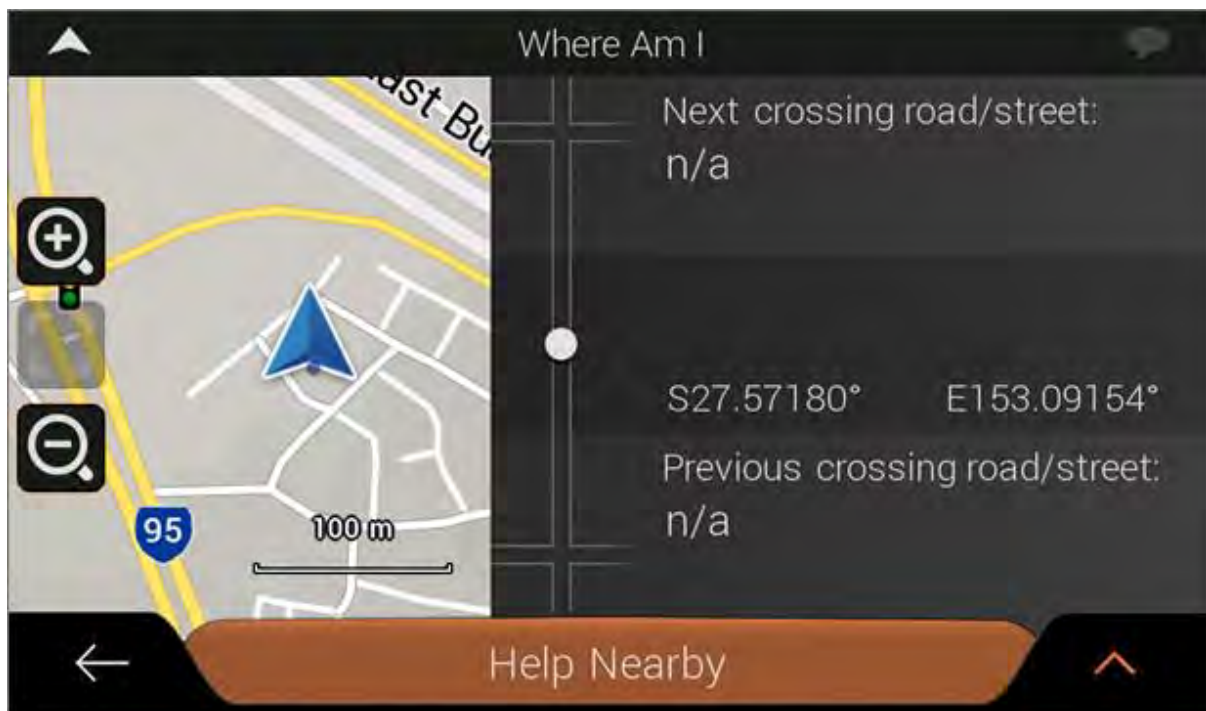


From the Useful Information screen, tap the **Where Am I** button.

The Where Am I screen shows the following

- A summary map of your location
- The next and previous street crossings (if applicable)
- Your current position

as shown below.



Tapping the **Help Nearby** button displays the **Help Nearby screen**, as described in the next section.



## Help Nearby

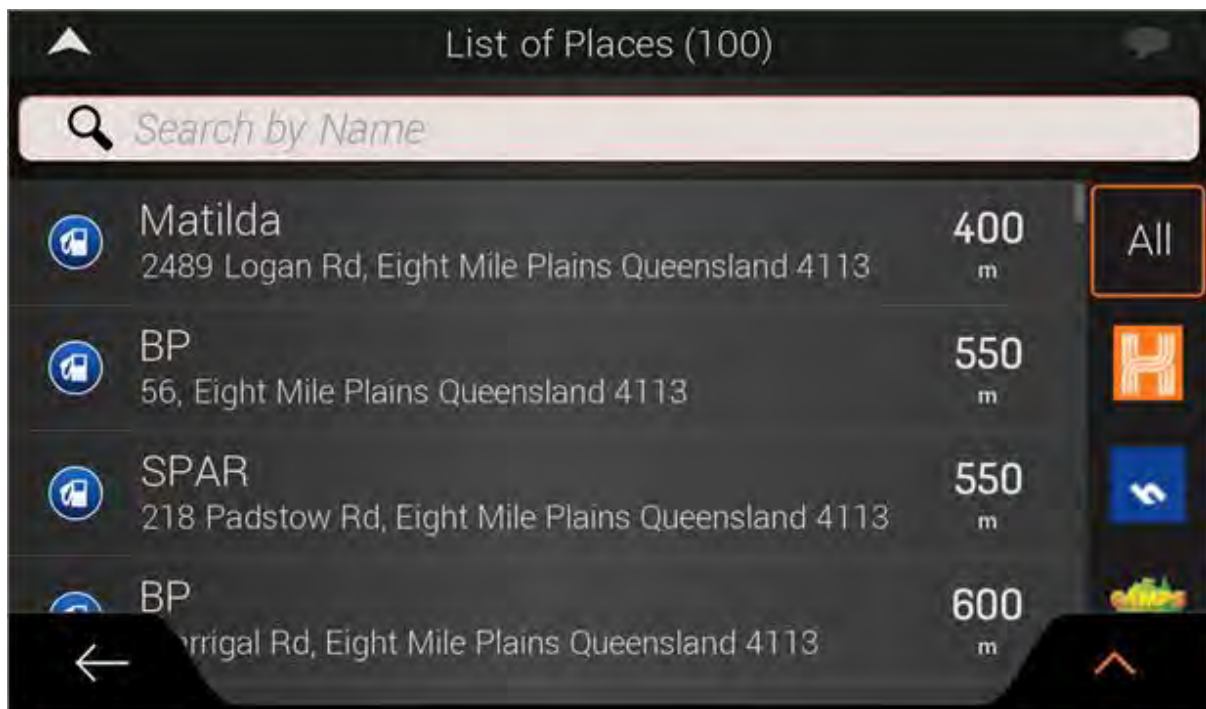


From the Useful Information screen, tap the **Help Nearby button**.



The Help Nearby screen allows you to rapidly locate services within your vicinity should you require assistance of some sort.

Tapping one of the options will display a pre-filtered list of POIs, sorted in order of closest to furthest from your current location. An example (tapping on Petrol Stations) is shown below.



## Country Information

Country information displays country specific information and useful general advice for the selected country.



Tap the **Country Information button** on the Useful Info screen to load the Country Information screen.



On the Country Information screen, you can scroll up and down to find the country you want information for, or type part of the name into the **Search by Name field** at the top of the screen to find the country required.



Information displayed is:

- Emergency phone number and country code
- Road speeds
- Blood alcohol limits
- other general driving warnings

#### **For Your Information...**

Separate Country information is shown for each Australian state.

## Trip Monitor

The Trip Monitor allows you to record and save statistics and / or track logs for some or all of the trips you do while using the **Drive** app on the **HX-1**.

These logs can be exported (as GPX files) later if required (for example, you could import the GPX track log into another app for analysis or visualisation).

### Remember!



The Nav button appears on the Home screen in its fixed location, and on other screens in whichever position you choose to place it,

A SHORT TAP on the Nav button will return you to the previous screen at any time.

A LONG TAP on the Nav button will pop up the Nav pane, where you can access **Navigator** device settings, etc.

The button can be dragged to any position on the screen of your choosing, and will remember its location on that screen.

Note that in some of the screenshots seen in this eGuide, the back button has been removed from the image for the sake of clarity.



Tap the **Trip Monitor button** on the Useful Information screen to open the Trip Monitor screen.

Initially, there will be no trip recordings, as shown below.



Tap the **Start New Recording button** to begin recording your trip.

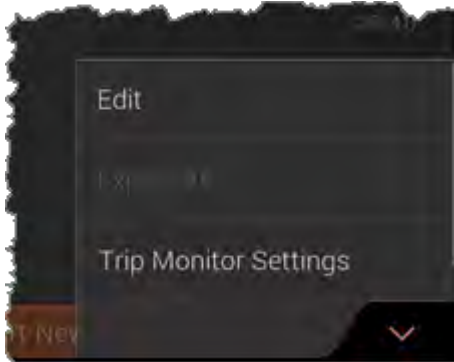
While recording, your trip will appear in the main Trip Monitor screen, as shown below, indicating that it is in the process of recording.



Tap the **Stop Recording button** to end the recording of this trip log.

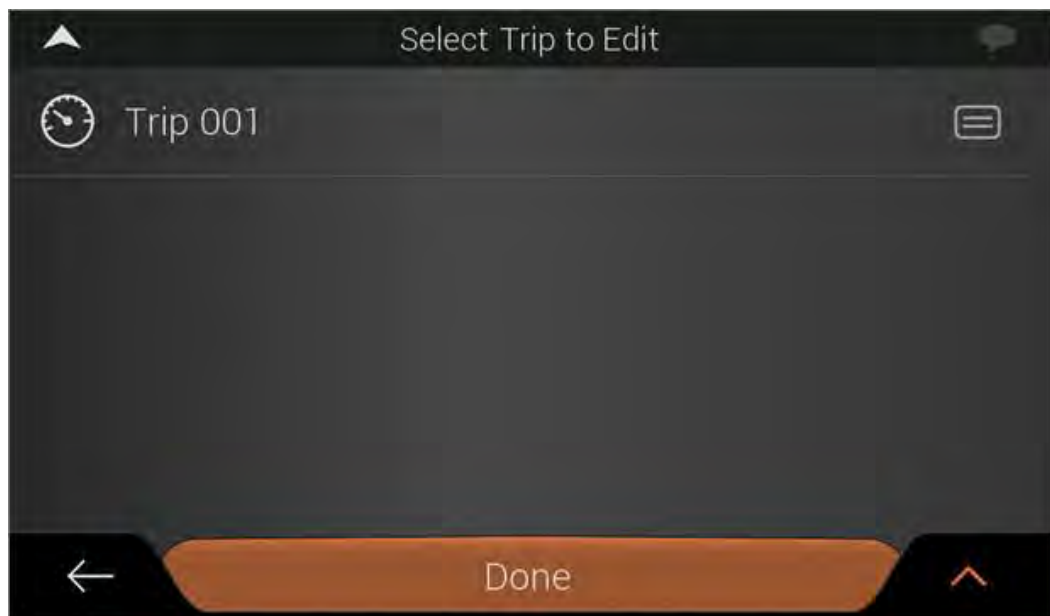


Tap the **Menu button** to see Trip Monitor options. The options are:



### Edit

Tapping the **Edit option** allows you to select which trip you would like to edit.



Once you tap the desired trip, the **Edit menu** appears.



It has the following options.

### **Delete**

Delete the selected trip log.

### **Rename**

Choose a new name for the selected trip log.

### **Change Colour**

Change the colour of the track log for the selected trip (if one is recorded for this trip log). If there is no associated track log for this trip, then the option will be inactive (grey).

### **Close**

Close the menu without any action

### **Export All**

Export all trip logs

### **Trip Monitor Settings**

Open the [Trip Monitor Settings screen](#), explained elsewhere in this eGuide.



### Trip Data Details screen

Tapping on a trip in the Trip Monitor screen (whether it is currently recording, or was previously recorded) will display details for that trip on the **Trip Data Details screen**, as shown below.



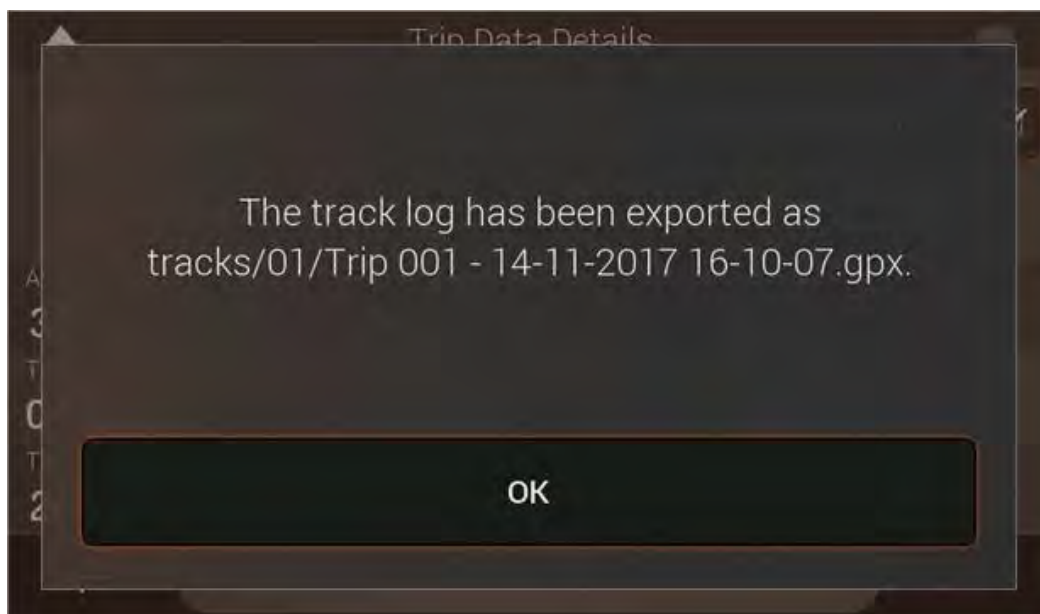
Tap the **Menu button** to see Trip Monitor options. The options are:

### View on Map

As you would expect, this option will display the recorded trip on a map.

## Export Track Log

Tapping this option will export the recorded track as a GPX file. A message will appear showing the name of the export GPX file.



The message shows the path where the file is stored. By default this will be in track folder, visible when you **connect your HX-1 to the PC via USB cable**.

Tap the **OK button** to close the message.

### Note

GPX files are a common data interchange format which can be used in many GPS and location based apps and programs.

### Elevation Profile

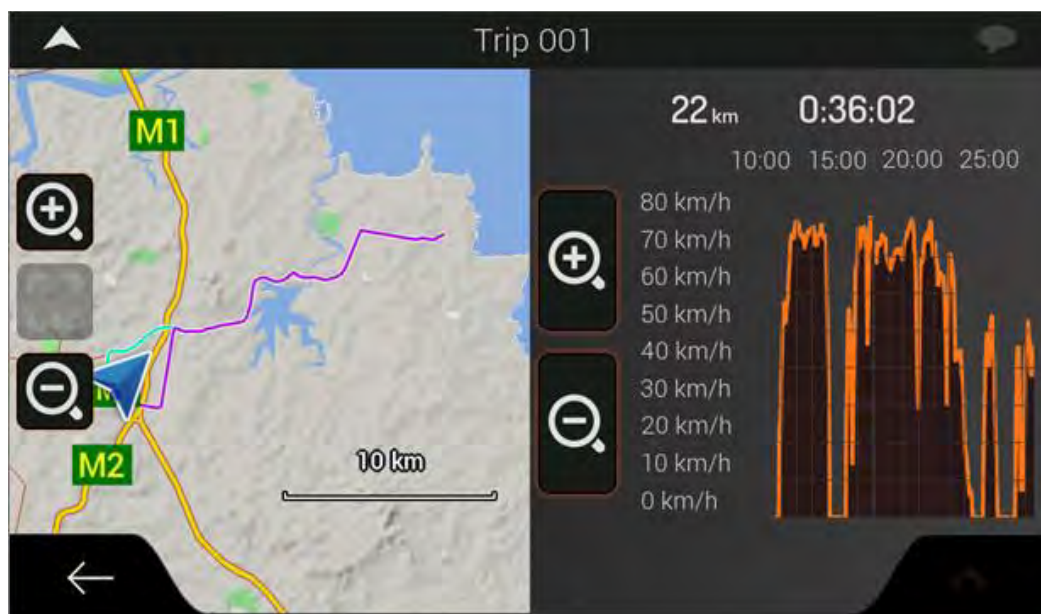
Tapping Elevation Profile option displays a distance-based graph showing your elevation over the duration of the recorded trip.



Tap the **back button** at lower-left to return to the Trip Data Details screen.

### Speed Profile

Tapping Speed Profile option displays a time-based graph showing your speed over the duration of the recorded trip.

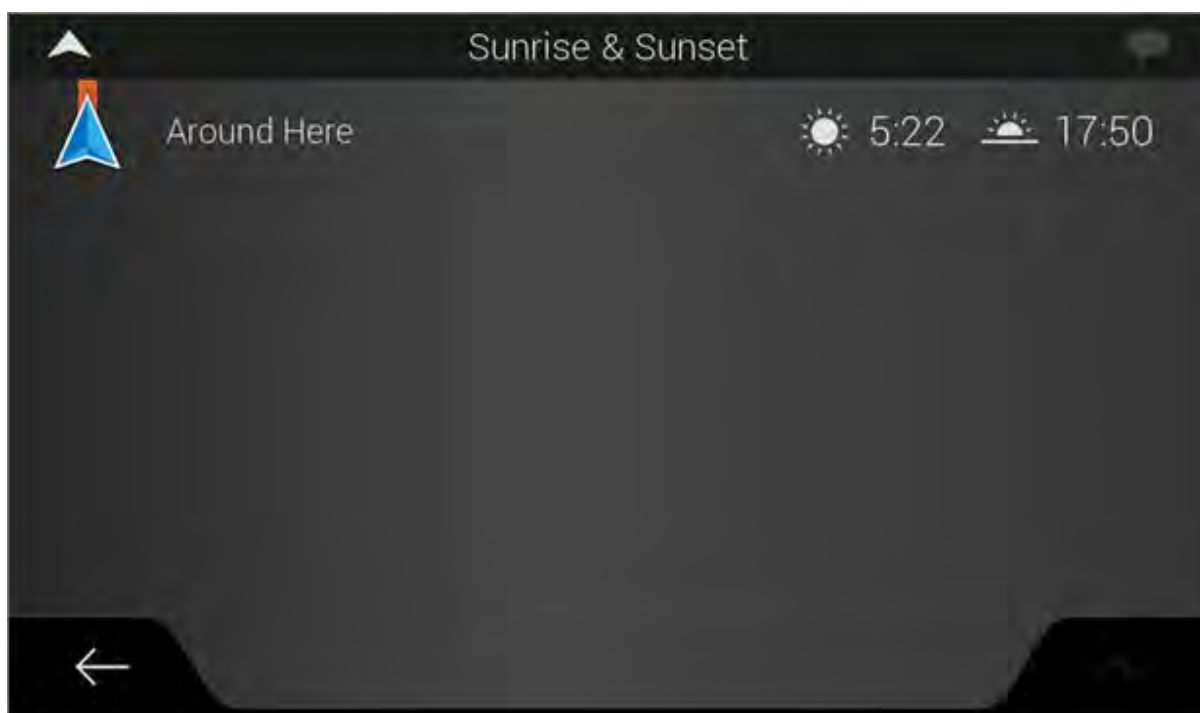


Tap the **back button** at lower-left to return to the Trip Data Details screen.

## Sunrise & Sunset



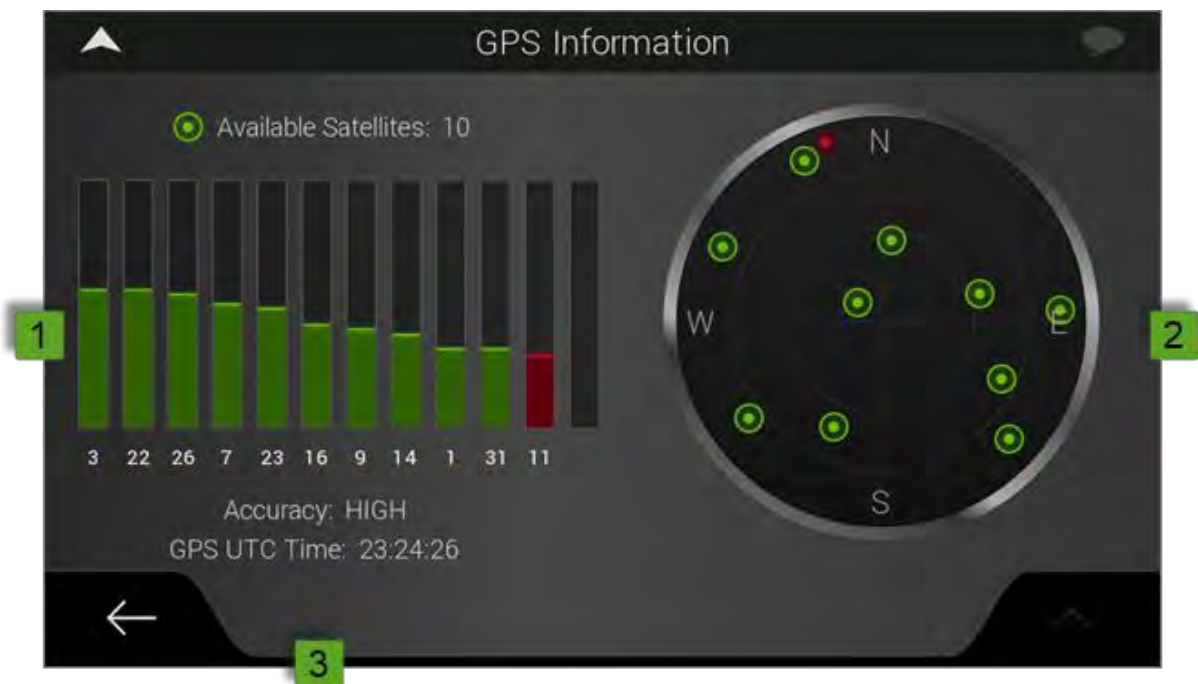
Tap the **Sunrise & Sunset button** from the Useful Information screen to display the time that the sun rises and sets in your current location.



## GPS Information



Tap the **GPS Information button** from the Useful Information screen to display some information about the status of the GPS satellite fix.



The information shown here is

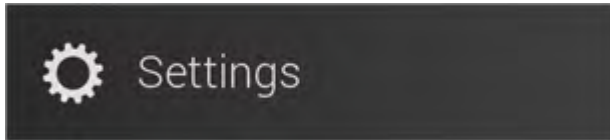
1. Relative signal strengths of numbered visible satellites
2. Constellation map of visible satellite with status
3. Accuracy and GPS time information (GPS time is displayed in UTC format)

## Settings

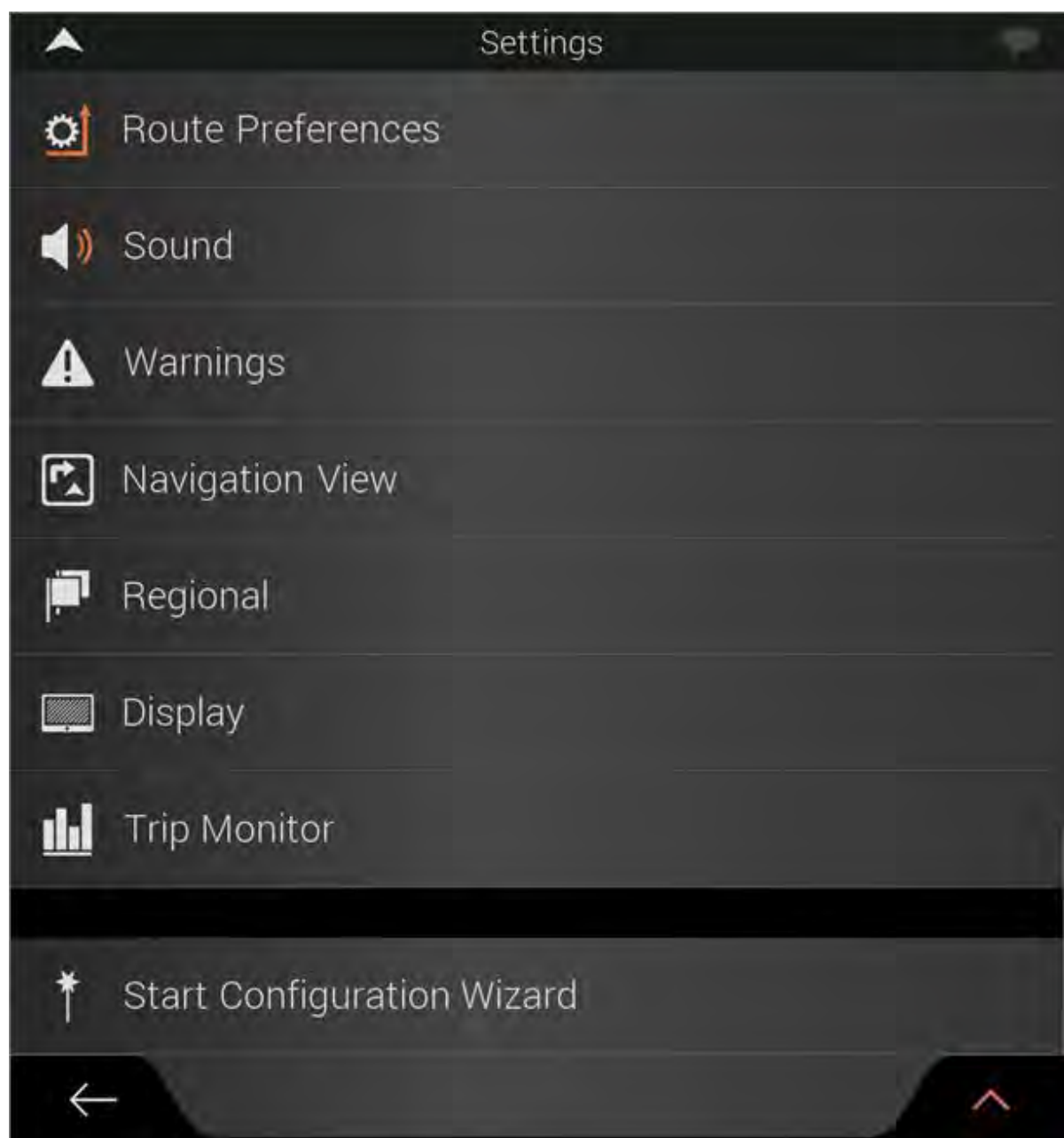
### Settings screen

The Settings screen is where you can configure the **Drive** app to suit your personal preferences.

All available settings are explained in this section of the user guide.



Tap the **Settings button** from the Main menu to open the **Settings screen**.



Each section of the Settings screen is detailed in its own section of this eGuide, as follows:

1. [Route Preferences](#)
2. [Sound](#)
3. [Warnings](#)
4. [Navigation View](#)
5. [Regional](#)
6. [Display](#)
7. [Trip Monitor](#)
8. [Start Configuration Wizard](#)



## Route Preferences

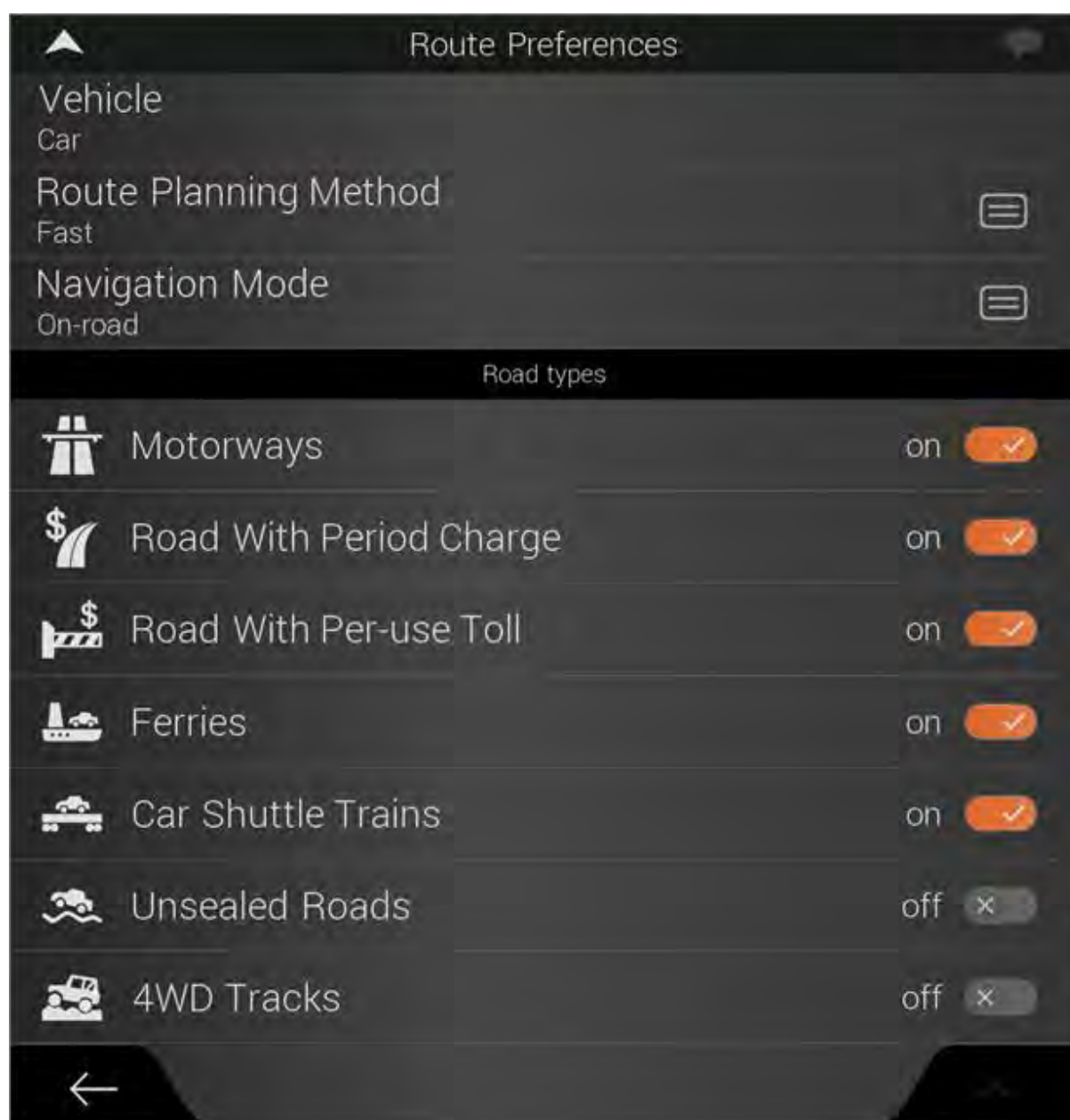
---



The Route Preferences settings allow you to configure the way that **Drive** calculates routes.

Each setting affects the way **Drive** decides which way to take you to your destination.

Tap the **Route Preference button** to open the Route Preferences screen.





The settings, and how they affect route creation are explained in detail below.

### Vehicle

The **Drive** app uses the Car vehicle profile by default, but it has a number of vehicle profiles predefined as follows:

#### Car

**This is the default setting**

- Manoeuvre restrictions and directional constraints are taken into account when planning a route.
- Roads are used only if access for cars is allowed.
- Private roads and resident-only roads are used only when they are unavoidable in reaching the destination.
- Walkways are excluded from routes.

#### Pedestrian

- Neither manoeuvre restrictions nor directional constraints are taken into account when planning a route.
- Roads are used only if access to pedestrians is allowed.
- Controlled-access roads are excluded from routes.
- A private road is used only if the destination is on it.
- Speed limits are not used in route calculation and an average walking speed is used when calculating the estimated time of arrival.

#### Bicycle

- Manoeuvre restrictions and directional constraints (if they are applied to bicycles in the map data) are taken into account when planning a route.
- Roads are used only if access for bicycles or pedestrians is allowed.
- Controlled-access roads are excluded from routes.
- A private road is used only if the destination is there.
- Speed limits are not used in route calculation and an average cycling speed is used when calculating the estimated time of arrival.

#### Emergency

- All manoeuvres are available in intersections.
- Directional constraints are taken into account the way that opposite direction is allowed with a low speed.
- A private road is used only if the destination is on it.
- Walkways are excluded from routes.

## Bus

- Manoeuvre restrictions and directional constraints are taken into account when planning a route.
- Roads are used only if access for buses is allowed.
- Private roads, resident-only roads and walkways are excluded from routes

## Taxi

- Manoeuvre restrictions and directional constraints are taken into account when
- planning a route.
- Roads are used only if access for taxis is allowed.
- Private roads, resident-only roads and walkways are excluded from routes.

## Truck

- Manoeuvre restrictions and directional constraints are taken into account when planning a route.
- Private roads, resident-only roads and walkways are excluded from routes

You can create your own vehicle profile if you wish. If you do create your own vehicle profile, be sure to set all parameters for that profile (ie. beware the truck profile has a default maximum speed of 80 km/h).

### Vehicle Profiles

### Route Planning Method

The Route Planning Method has 4 options:

#### 1. Fast

**This is the default setting**

The **Fast option** is designed to get you to your destination the fastest possible way. Note that this may not be the shortest way, distance wise. It might be faster to travel an extra 30klm at freeway speeds for example.

#### 2. Easy

The **Easy option** results in a route with fewer turns and no difficult manoeuvres. For example, it might create a route taking the motorway instead of a series of smaller roads or streets.

### 3. Short

Gives a short route to minimise the distance to travel. Mainly suited for pedestrians, cyclists or slow vehicles. Searching for a short route regardless of the speed, this route type is rarely practical for normal vehicles.

### 4. Green

Gives a quick but fuel efficient route based on the fuel consumption for the current vehicle as specified in the Vehicle Specified section of the Route Preferences. Travel cost and CO2 emission calculations are estimations only. They do not take elevations, curves and traffic conditions into account during the calculation.

#### Navigation Mode

**Navigation Mode** has two options:

#### 1. On-road

**This is the default setting**

On-road mode is the default mode for **Drive**. Typically, you would navigate from some location on a road, to another destination (such as a street address) on another road.

#### 2. Off-road

Off-road mode behaves differently. You might decide that you wish to navigate to a location in the middle of a National Park, by entering coordinates directly that you wish to travel to. In this mode, **Drive** will only calculate straight-line (as the crow flies) routes. In this mode, **Drive** behaves more like the **Explore Mode** app on your **HX-1**.

#### Road Types

In this section, you can enable or disable various road types which you wish the app to take into account when creating a route.

You can use this to avoid Motorways, or Toll Roads, for example.

#### Motorways

**Default is ON**

You might need to avoid motorways when you are driving a slow car or towing another vehicle.

## Road With Period Charge

Default is ON

Charge roads are toll roads where you can purchase a pass to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.

## Road With Per-Use Toll

Default is ON

The **Hema HX-1 Navigator** includes toll roads (pay roads where there is a per-use charge) in the routes by default. If you disable toll roads, **Drive** will try to plan the best toll-free route.

## Ferries

Default is ON

**Drive** includes ferries in a planned route by default.

However, a map does not necessarily contain information about the accessibility of temporary ferries. You are likely to need to pay a fare on vehicular or pedestrian ferries.

## Car Shuttle Trains

Default is ON

Car shuttle trains are not in widespread use in Australia, but where they are available, can be accommodated within a route. These types of services are where your car travels on a train, with you as a passenger on the same train (either remaining in the vehicle, or in a separate carriage).

## Unsealed Roads

Default is OFF

**Drive** excludes unpaved roads by default. Unpaved roads can be in a bad condition and you might not reach the speed limit while travelling on them.

### 4WD Tracks

Default is OFF

4WD tracks are dirt roads in very poor condition. They can only be driven by 4WD vehicles. **Drive** excludes 4WD tracks by default.

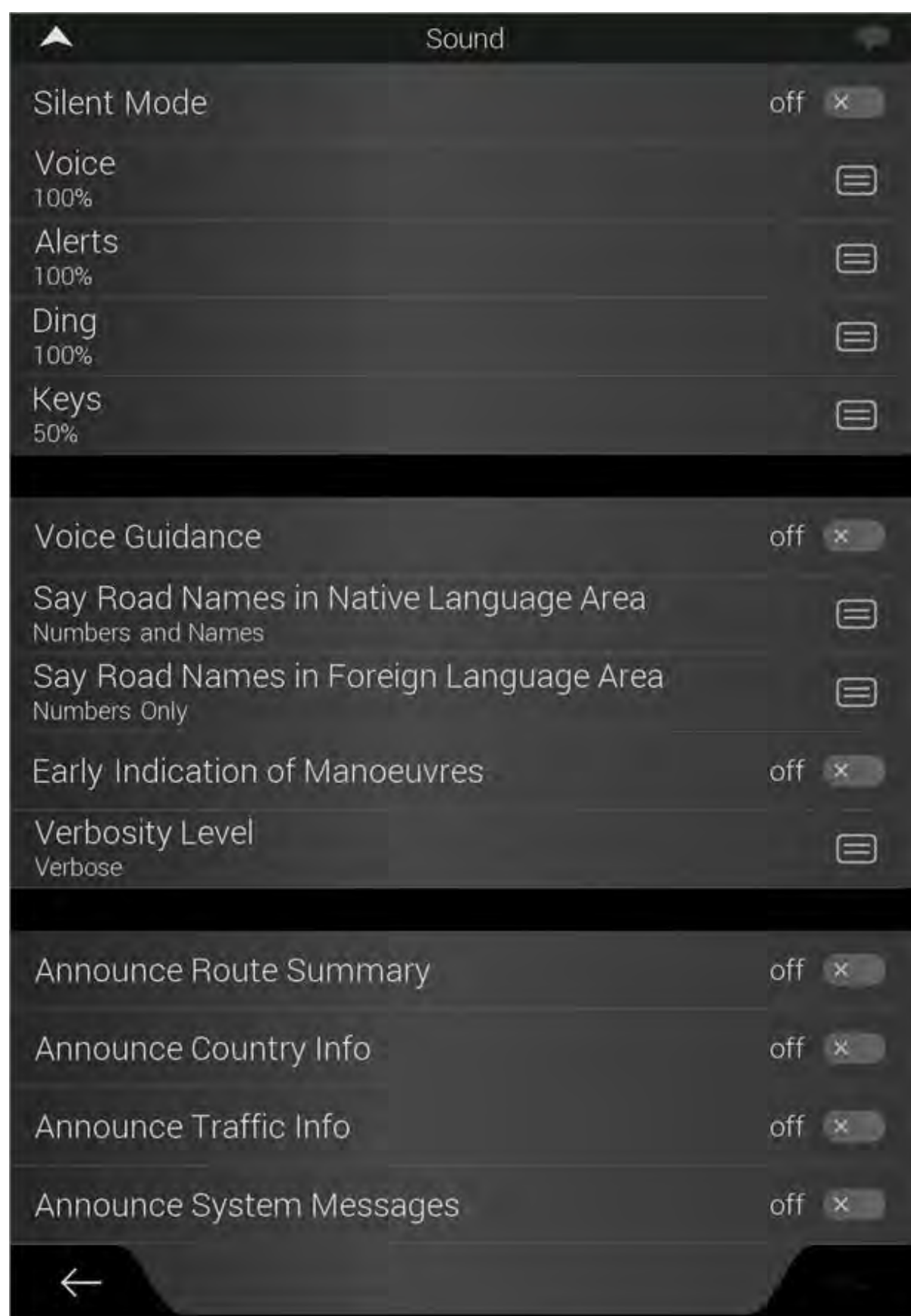
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## Sound settings



The Sound settings allow you to configure the way that **Drive** alerts you via audible prompts and alarms.

Each setting affects a specific area within the **Drive** app.



## Silent Mode

Default is OFF

If this option is on, then **Drive** will be very silent, and will not interject with any audible instructions, alerts or prompts at all.

### Remember!

You can temporarily mute the audio output of **Drive** using the audio control button from the main menu.

You can also mute the entire audio system of the **HX-1** itself from the popup **Nav panel**.

## Volumes

The next four options allow you to adjust the relative volumes of the different parts of the audio output produced by **Drive**.

Each option allows the use of a slider to select a volume level from 0% (silent) to 100%.

### Voice

The volume of the Voice prompts and other spoken audio within the app.

### Alerts

The volume of any audio alerts produced by the app.

### Ding

The volume of any bell type sounds produced by the app.

### Keys

The volume of any key presses on the on-screen keyboard within the app.



## Voice Guidance

Default is ON

This option simply turns the voice guidance feature on or off. Generally, you would leave this option switched on.

## Say Road Names in Native Language Area

This option specifies what information **Drive** will announce while in an area which is the same as your native language (as specified in the [Language settings](#)). You have a choice of:

- Numbers and Names **This is the default Setting**
- Numbers Only
- Just Manoeuvres

## Say Road Names in Foreign Language Area

This option specifies what information **Drive** will announce while in an area which uses a different language to that specified in your [Language settings](#). You have a choice of:

- Numbers and Names
- Numbers Only **This is the default Setting**
- Just Manoeuvres

## Early Indication of Manoeuvres

Default is OFF

This option will cause **Drive** to give more warning of upcoming manoeuvres.

## Verbosity Level

The Verbosity Level setting allows you to set how vocal the **Drive** app is while giving verbal directions.

You can choose from three options here:

- Minimal
- Medium
- Verbose **This is the default Setting**

## Announce Route Summary

Default is OFF

When you create a route, **Drive** will announce a summary of the route after route calculation if this option is switched on.

## Announce Country Info

Default is OFF

If this option is switched on, **Drive** will announce information regarding the country you are in, or are entering. This could be useful to receive warnings if you are traversing multiple countries.

## Announce Traffic Info

Default is OFF

This option will cause **Drive** to make vocal announcements regarding changing traffic conditions (from Historical Traffic data, NOT real-time).

## Announce System Messages

Default is OFF

If this option is switched on, **Drive** will announce messages emanating from the

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## Warnings

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The settings under Warnings control the various audible and visual cues which **Drive** uses to alert you to specific environmental conditions and hazards.

Warnings are split into three primary categories:

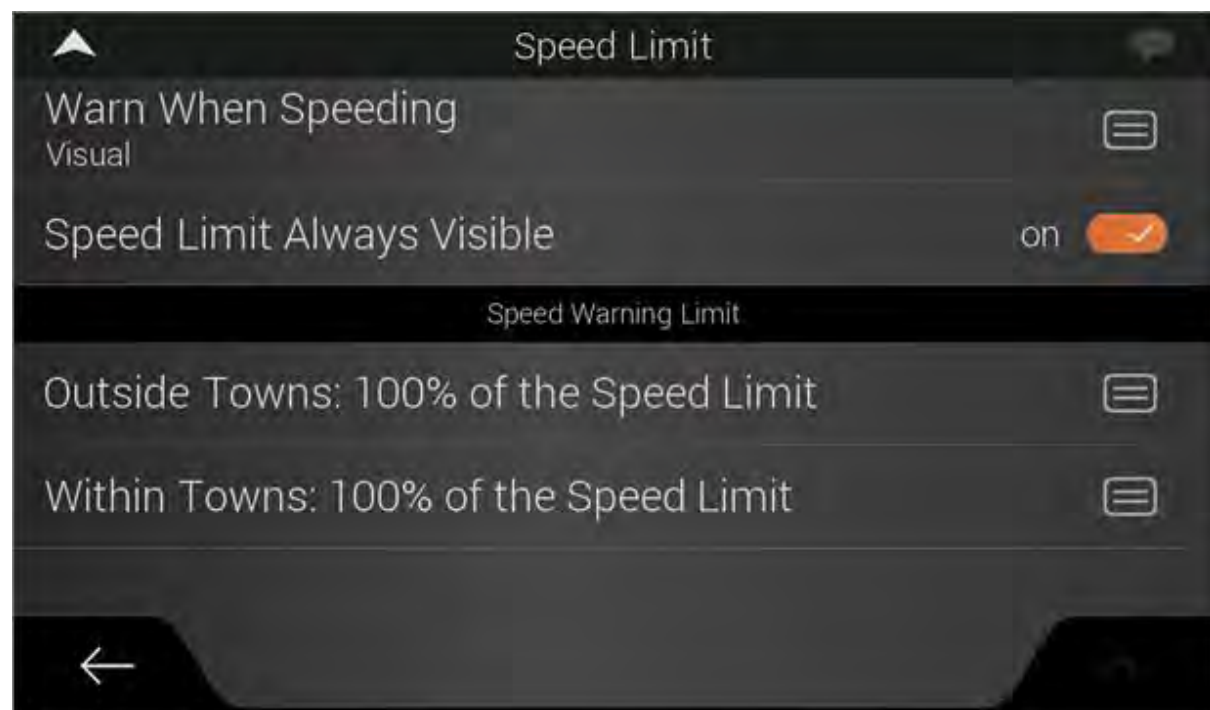
- [Speed Limit](#)
- [Alert Points](#)
- [Road Signs](#)

---

### Speed Limit

Tapping Speed Limit from the Warnings settings screen displays all Speed Limit settings available.

These settings allow you to customise when and how **Drive** alerts you to excess speed.



### Warn When Speeding

- Disabled
- Visual **This is the default setting**
- Audio and Visual

### Speed Limit Always Visible

**Default is ON**

This option will ensure that the current speed limit is always displayed on **Drive's** main screen during travel.

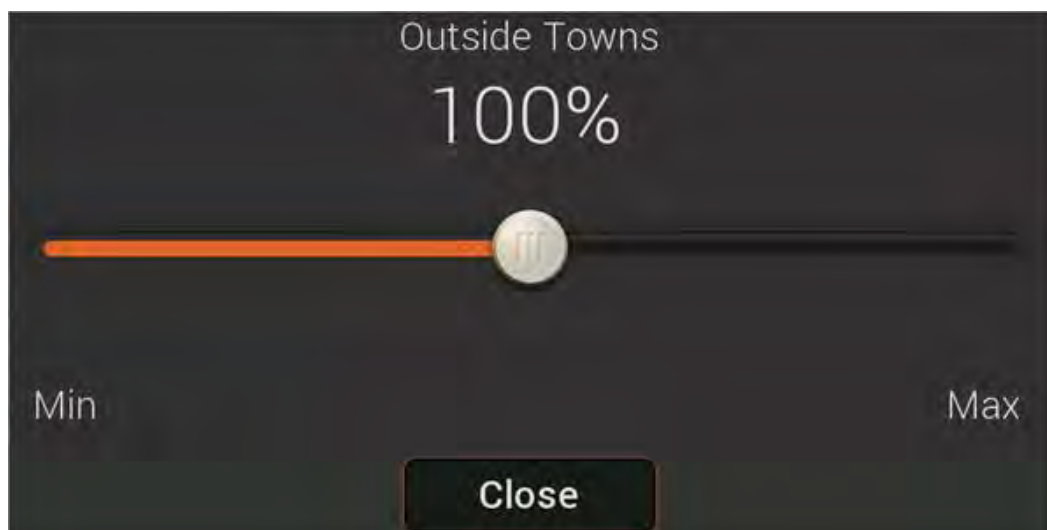
### Outside Towns



Tap the option selector button to open a slider to set a percentage for this option.

The percentage allows you to specify an amount over or under the current speed limit to warn you at. You can also set the control to warn at the actual speed limit (100%).

This option affects the speed alert warning when you are not within town boundaries.



## Within Towns



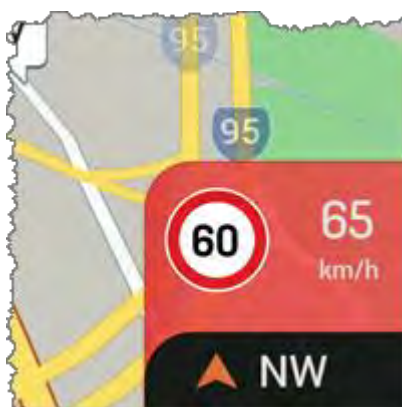
Tap the option selector button to open a slider to set a percentage for this option.

The percentage allows you to specify an amount over or under the current speed limit to warn you at. You can also set the control to warn at the actual speed limit (100%).

This option affects the speed alert warning when you are not within town boundaries.



When the vehicle speed exceeds the current speed limit, the speed panel on the screen will change to red, as shown in the example below (this is the visual warning). If audio warning is also turned on, a verbal warning will also sound.



## Alert Points

Alert Points consist of things like speed cameras, accident zones, school zones, etc.

**Drive** allows you to configure options for each type of alert point to suit your personal style.

The available Alert Point categories are:

- Railroad Crossing
- High Accident Zone
- School Zone
- Entering Urban Area
- Toll Booth
- Hospital, Ambulance
- Fire Station
- Congestion Charge Zone
- Dangerous Area

For each of the above categories you can modify the settings below

### Warning Type

Choose one of

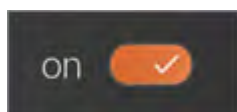
- Disabled
- Visual
- Audio and Visual **This is the default setting**

### Audio Warning

- Only When Speeding
- When Approaching **This is the default setting**

## Road Signs

Road signs consist of warnings related to road features, such as dangerous corners and overtaking lanes

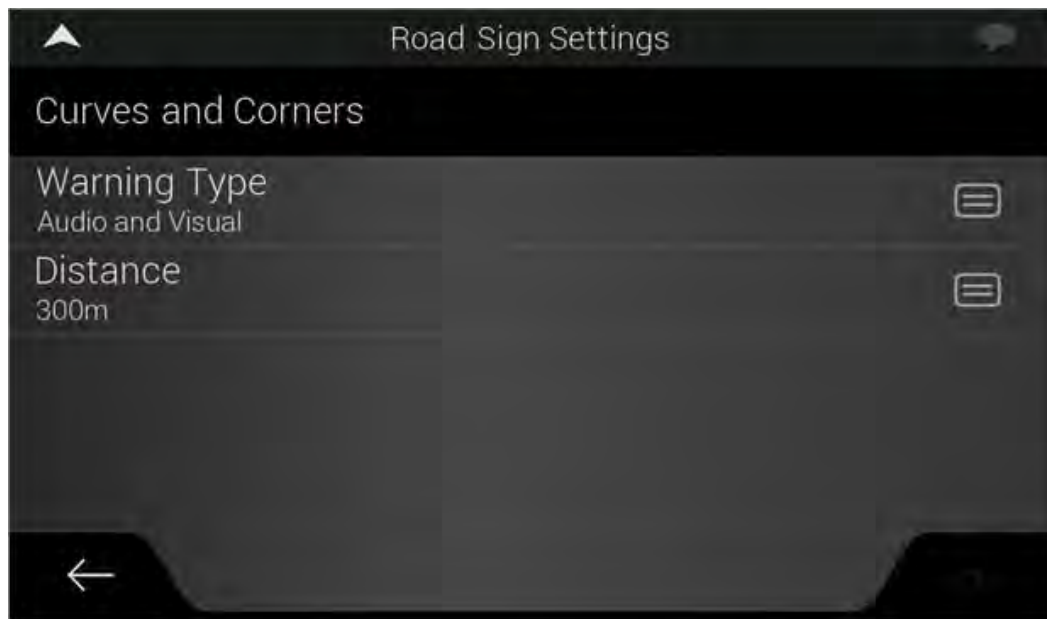


**Default is ON**

You can switch all Road Sign warnings on or off using the **on off switch** at the top of the screen.

Each category of Road Sign warnings has its own settings, as detailed below.

## Curves and Corners



Tap the option selector button to choose the options for this setting.

**Warning Type**

Choose what type of warning you would like to receive for this category:

- Disabled
- Visual
- Audio and Visual This is the default setting

**Distance**

Tap the option selector, and use the slider control to choose how far from the hazard you wish the warning to appear.

There is a sensible balance between:

- Too close - you won't receive the warning in time to take action, if required.
- Too far - the warning will be received too early, and by the time you have reached the actual hazard, you may have forgotten about it.





Tap the option selector button to choose the options for this setting.

### Warning Type

Choose what type of warning you would like to receive for this category:

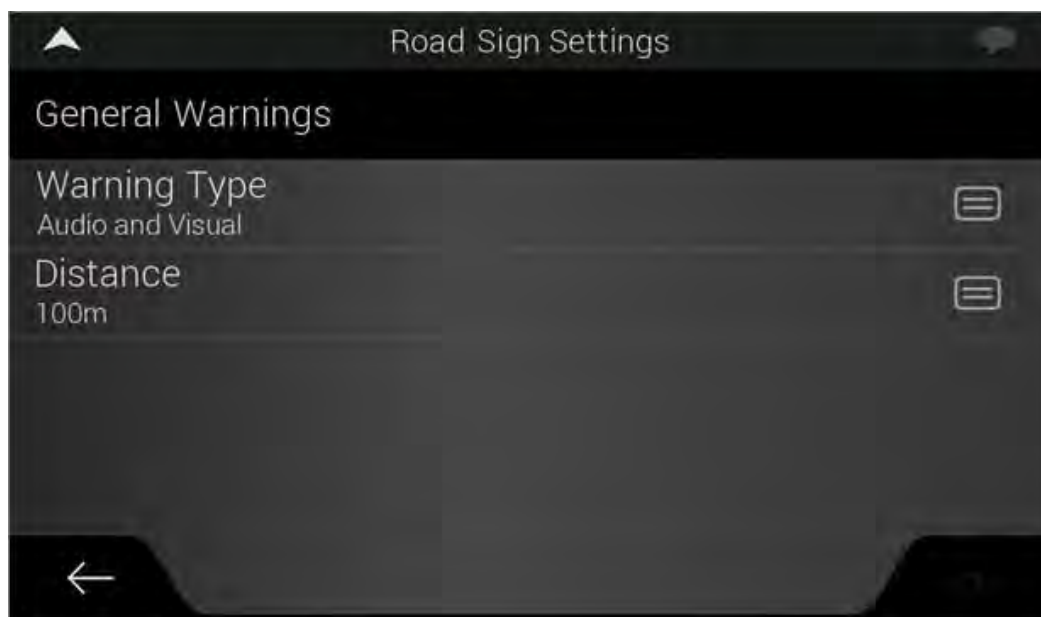
- Disabled
- Visual
- Audio and Visual This is the default setting

### Distance

Tap the option selector, and use the slider control to choose how far from the hazard you wish the warning to appear.

There is a sensible balance between:

- Too close - you won't receive the warning in time to take action, if required.
- Too far - the warning will be received too early, and by the time you have reached the actual hazard, you may have forgotten about it.



Tap the option selector button to choose the options for this setting.

### Warning Type

Choose what type of warning you would like to receive for this category:

- Disabled
- Visual
- Audio and Visual This is the default setting

### Distance

Tap the option selector, and use the slider control to choose how far from the hazard you wish the warning to appear.

There is a sensible balance between:

- Too close - you won't receive the warning in time to take action, if required.
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Tap the option selector button to choose the options for this setting.

### Warning Type

Choose what type of warning you would like to receive for this category:

- Disabled
- Visual
- Audio and Visual This is the default setting

### Distance

Tap the option selector, and use the slider control to choose how far from the hazard you wish the warning to appear.

There is a sensible balance between:

- Too close - you won't receive the warning in time to take action, if required.
- Too far - the warning will be received too early, and by the time you have reached the actual hazard, you may have forgotten about it.

## Navigation View

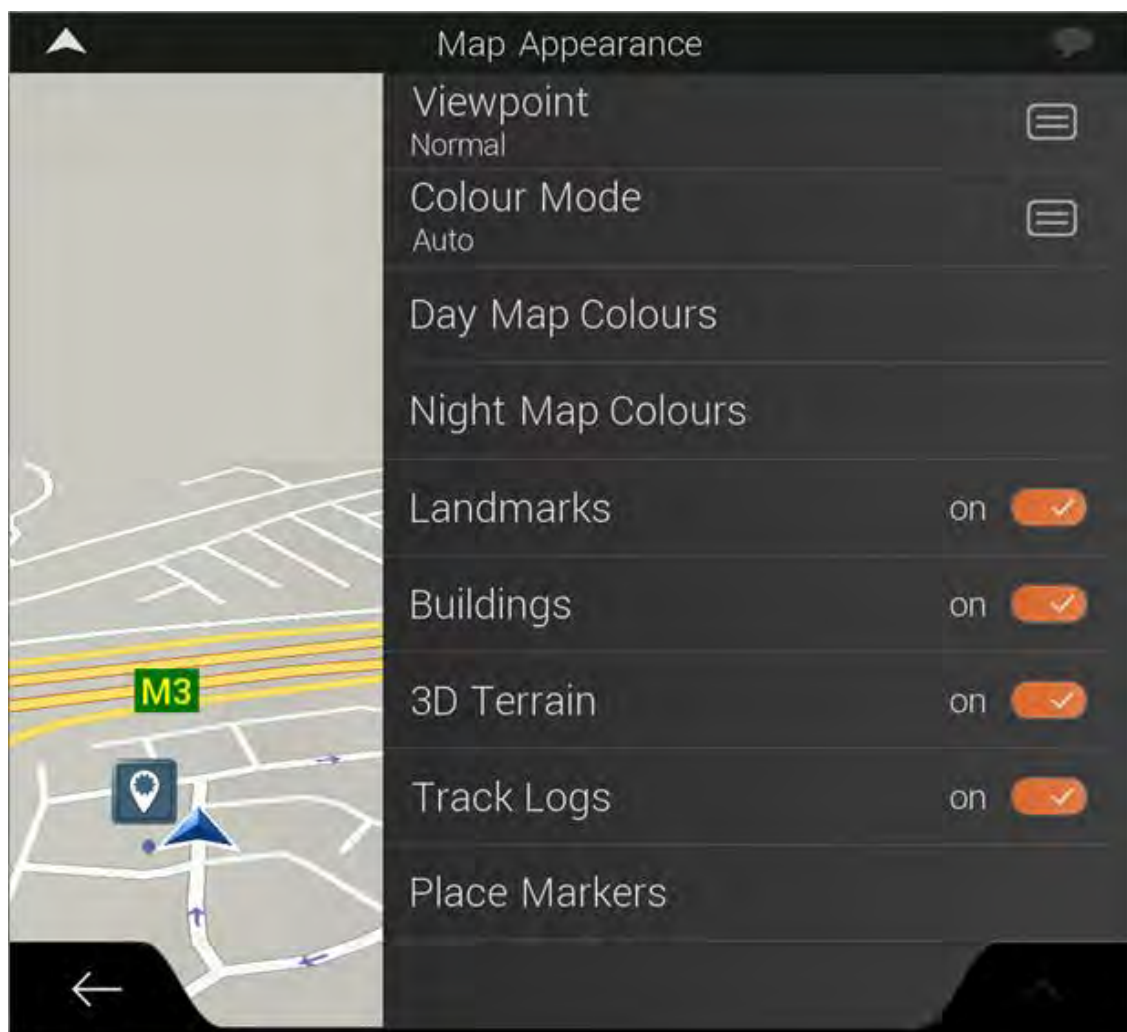
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Tap the **Navigation View button** on the Settings screen to open the Navigation View settings screen.

The Navigation View settings allow you to customise the appearance of the main view of the **Drive** app.

### Map Appearance



The Map Appearance settings allow you to customise the view of the map within the **Drive** app.

Choose the following options

### Viewpoint

- Far
- Normal **This is the default setting**
- Close

### Colour Mode

#### Auto

**This is the default setting**

Switch between Day and Night mode automatically based on sunset and sunrise times at your current location.

#### Day

Day colour mode is brighter and more suited to use during daylight hours.

#### Night

Night colour mode is more subdued and suited for night time driving.

### Day Map Colours

Allows you to chose the colour scheme used for maps when in Day Colour Mode.

### Night Map Colours

Allows you to chose the colour scheme used for maps when in Night Colour Mode.

### Landmarks

**Default is ON**

Set Landmark display on or off.

Landmarks are 3D artistic or block representations of prominent or well-known objects.

## Buildings

Default is ON

Set building display on or off.

Buildings are 3D city models, 3D artistic or block representation of full city building data containing actual building size and position on the map. There may be buildings missing from the view, depending on whether the building data is available within the mapping package.

## 3D Terrain

Default is ON

Set 3D terrain on or off.

3D terrain shows a more realistic model of the terrain under the road network.

## Track Logs

Default is ON

Set track log display on or off.

Choose whether to display previously captured track logs overlayed on the map.

## Place Markers

Place markers cause icons to appear on the map showing where various facilities and places are located.

You can turn these on or off for entire categories or select sub-categories within each top-level category to switch on or off. The top-level categories are listed in alphabetical order here and within the **Drive** app.

- 4WD Facility
- Accommodation
- Airport
- Auto Services
- Automotive
- Business
- Cafe or Bar
- Camps & Locations
- Camps Public Dump Points
- Caravan Park Aust Wide
- Communication
- Emergency
- Entertainment
- Finance
- Information
- Leisure
- Marine
- Medical
- My Pictures
- Parking
- Petrol Station
- Points of Interest
- Restaurant
- Services
- Shopping
- Sports
- Transport
- Truck

## Data Fields

The Data Fields option allows you to customise the data fields which are displayed in the lower-right corner of the main map screen of the **Drive** app.



When you are routing to a destination, you can customise up to THREE data fields. These fields are displayed **ONLY** when you are currently routing to a destination. You can choose from the following values while routing is active:

- Time of Arrival at Destination This is a default setting
- Distance to Destination This is a default setting
- Time to Destination This is a default setting
- Time of Arrival at Waypoint
- Distance to Waypoint
- Time to Waypoint
- Heading
- Altitude

When changing these settings, you can choose in which order you prefer to see the data fields.





When you are not currently navigating to a destination, there is only ONE field displayed in this location, and you only have a choice of two options

- Heading **This is the default setting**
- Altitude

#### Route Progress Bar



**Default is ON**

The **Route Progress bar** is displayed at the right-hand side of the main screen when navigating to a destination. It shows your progress along the route in a linear fashion, with START at the bottom and END at the top, giving you gauge as to how far along the route you are.

If you are travelling a Multipoint route, then the waypoints along the way are displayed as dots along the line, as shown below.



This option turns the Route Progress bar on or off.

#### Offer Motorway Services

Motorway Services are certain locations which may be desirable to detour to while travelling on a motorway (for example a fuel stop). While navigating to a destination, if you are on a motorway, **Drive** will offer to detour you off motorway if one of the configured Motorway Services becomes available along the route.

You can configure the following options:

#### Offer Motorway Services

Default is ON

This option turns the Offer Motorway Services option on or off.

#### Services Displayed

Here, you can configure which services **Drive** will alert you about. You can configure UP TO FOUR services here. By default, **Drive** will alert you to the following service categories:

- Petrol Station
- Restaurant
- Car Service

which are sensible options while travelling along a motorway.

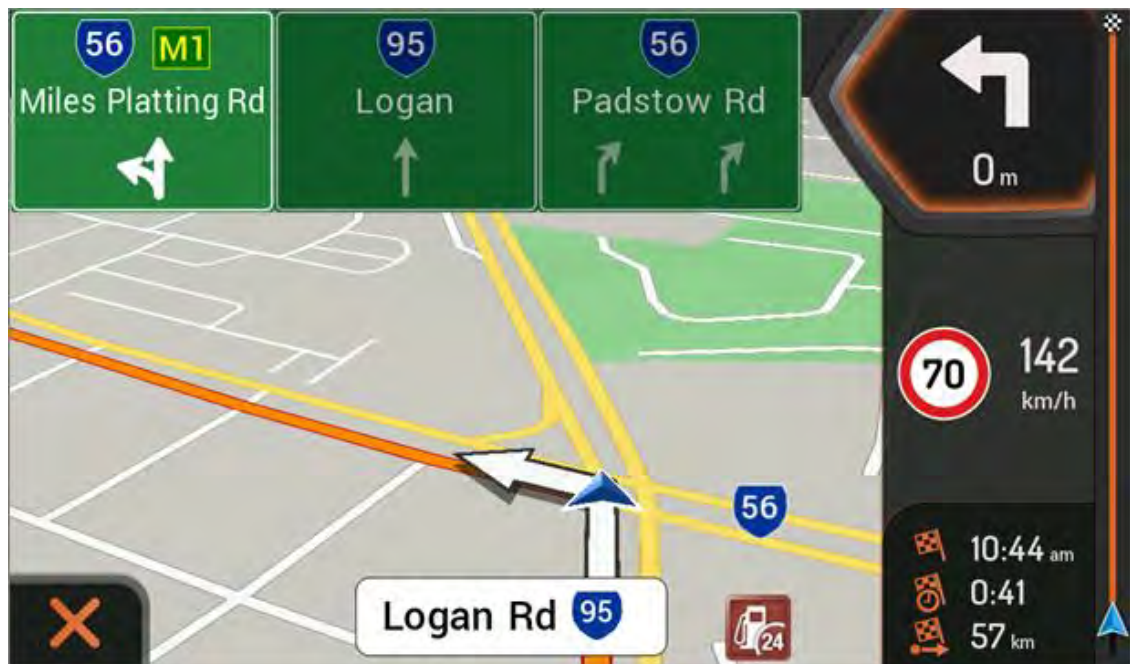
### Automatic Overview

Default is ON

The Automatic Overview option will display a preview of the manoeuvres required to get to an upcoming Motorway Service.

This option turns the Overview on or off.

### Signposts



Default is ON

Providing there is adequate data available, lane information similar to real road signs above the road are displayed at the top of the map.

This option turns this feature on or off.

### Junction View



Default is ON

Providing there is adequate data available, a 3D view of a motorway exit or complex junction is displayed as you approach.

This option turns this feature on or off.

### Tunnel View



Default is ON

Providing there is adequate data available, a 3D view of a road tunnel is displayed as you enter. As there may be no GPS signals present within a road tunnel, **Drive** will traverse the length of the tunnel at an average speed, and re-calculate if necessary after emerging from the tunnel.

This option turns this feature on or off.

### Offer Congestion Detour On Highways

**Default is ON**

If you are travelling on a highway, and it becomes obvious to the app that there is some congestion (ie. the speed limit is 100 km/h, but you have spent the last 15 minutes travelling at 25 km/h), then it may offer to take you off the highway at the next exit, in an effort to circumvent the situation (traffic accident, road works, etc.) which are causing the congestion. The app will route you off at the next suitable exit, and calculate a route to get you back onto the highway at the next opportunity.

This option turns this feature on or off.

### Offer Real-Time Alternative Routes

**Default is OFF**

This option causes the app to offer alternative routes based upon historical data.

Say you are travelling along a road at 9:00AM, and on that road you are approaching an intersection. In the historical data, it says that between 8:30AM and 9:30AM that intersection is really slow to cross, it will cause the app to re-route you around the intersection

This option turns this feature on or off.

### Offer Parking Around Destination

**Default is ON**

This option will suggest vehicle parking options in the vicinity of the current destination (if navigation is active).

This option turns this feature on or off.

### Offer Hints Upon Detour

Default is ON

If navigation to a destination is currently active, and you take a detour from the designated route yourself, the **Drive** app will prompt you for reasons why you might have deviated off the course **Drive** gave you.

Say you are travelling along a road on your way to deliver something, when you realise that you need to fill up with fuel. So, you turn away from the route chosen by **Drive**, and start looking for a petrol station. Once it is obvious that you have left the route, **Drive** will prompt you for possible reasons why you might have done so. It will display a list of possible reasons, once of which might be that you were looking for a petrol station. If you choose the petrol station option, **Drive** will display a list of petrol stations in the vicinity, in order, starting with the one closest to your current location.

This option turns this feature on or off.

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## Regional settings

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Tap the **Regional button** on the Settings screen to open the Regional settings screen.

Regional settings allow you to configure **Drive** to suit your use, specifically tailored around specific regional options.





## Language



This option allows you to configure the language used to display text within the **Drive** app.

## Voice Language

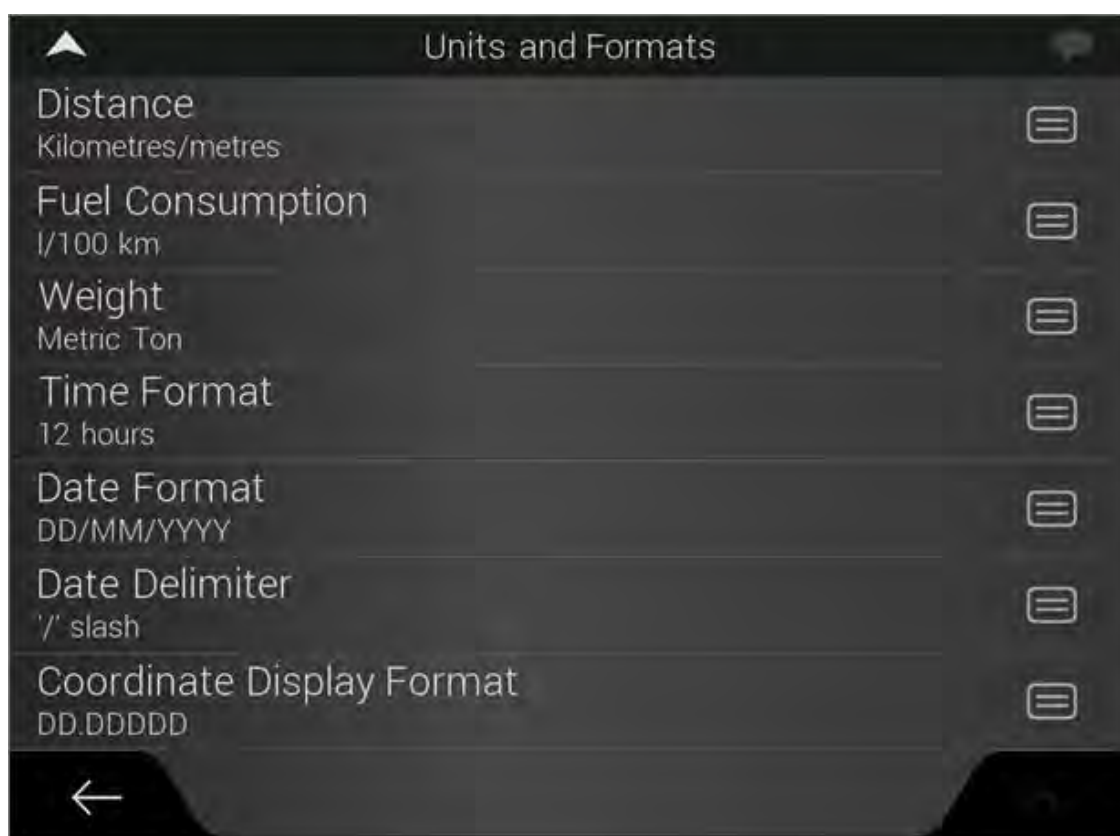


This option allows you to choose the voice used to provide the audio prompts and directions within the **Drive** app.

The currently selected voice is highlighted.



## Units and Formats

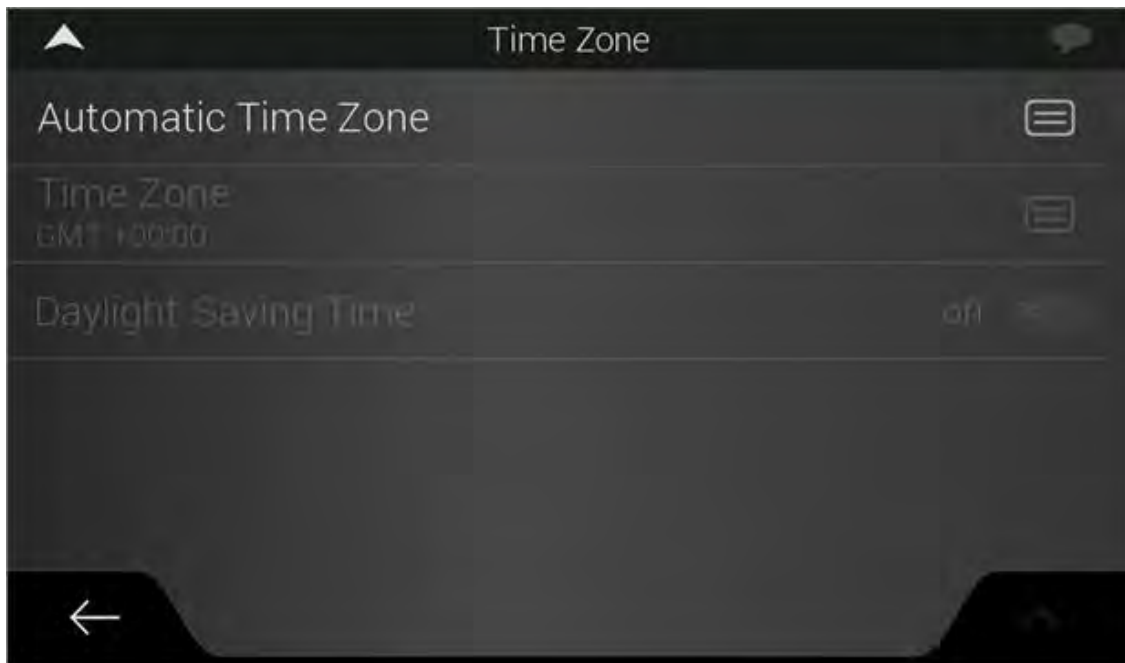


The Units and Formats settings allow you to configure the app to your requirements.



Tap each setting's **Option Select button** to display a menu showing the available options.

## Time Zone



The **Drive** app will default to automatically settings your time zone based on your current location.

This may have been changed when the *Configuration Wizard* was run during initial startup.

You can choose your own time zone by switching off the automatic option. The options available are:

### Automatic Time Zone

**This is the default setting**

The system chooses the time zone based on your current location.

### Manual Time Zone

You can enter the Time Zone and Daylight Saving settings yourself.

### Manual Time Zone if Auto Unavailable

Switch to the current manual settings if the automatic time zone settings is not available (ie. there is no satellite signal).

### Manual Time Zone in Current Zone

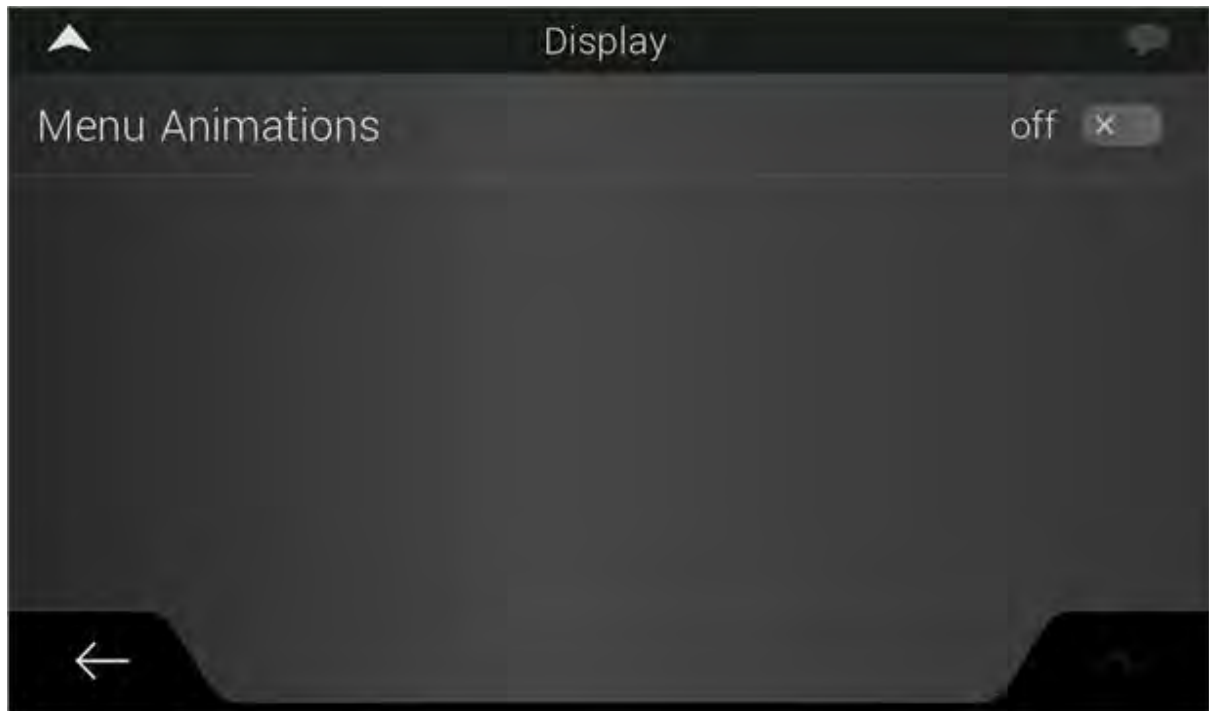
Override automatic timezone settings, but only for the current zone you are located in.

## Display settings

---



Tap the **Display button** on the Settings screen to open the Display settings screen.



There is only one option on this screen.

### Menu Animations

Default is ON

The **Menu Animations option** determines whether transitions between menu screens fade in smoothly or not.

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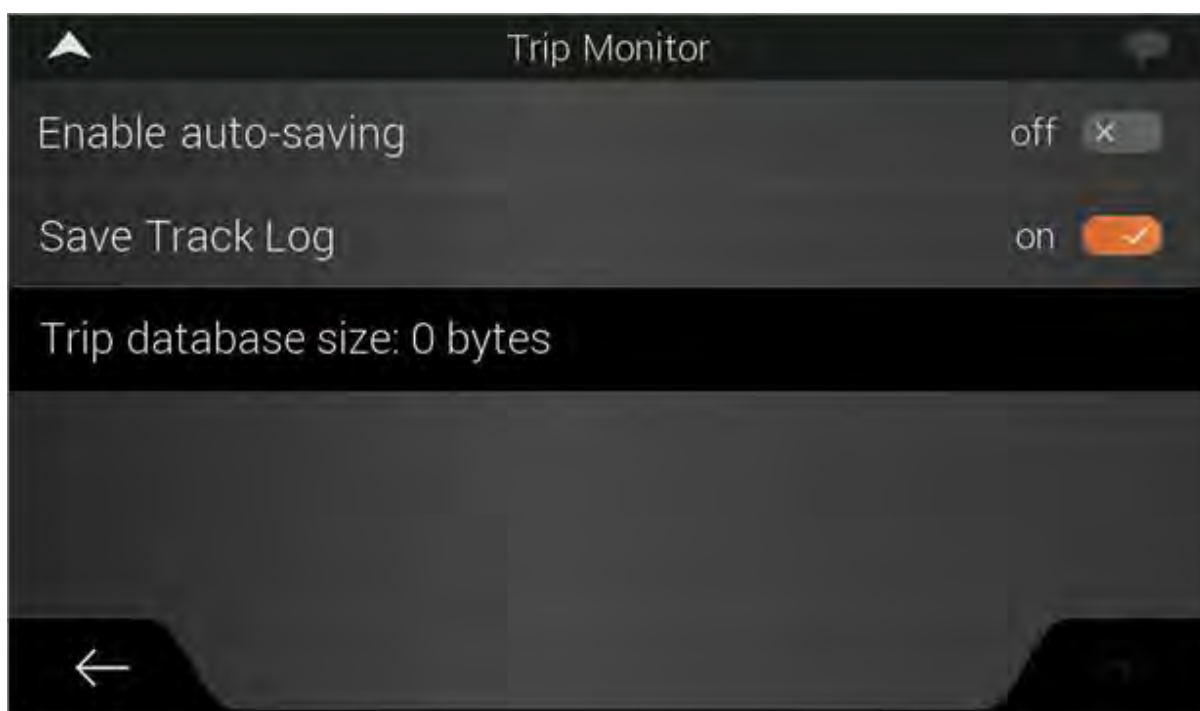
## Trip Monitor settings

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Tap the **Trip Monitor button** under Settings to change options related to the Trip Monitor function.

You can also arrive at the Trip Monitor settings from the menu within the Trip Monitor screen itself.



### Options under Trip Monitor Settings

The available options are:

#### Enable auto-saving

**Default is OFF**

If switched on, causes **Drive** to automatically save recordings of statistical data of your trips. This means that the app will be continuously recording your trip.

If you switch this option on, instead of the **Start New Recording button**, you will see a **Split Recording button**, as shown below.



Tapping the Split Recording button will cause the app to split the current recording at the time it is tapped, so the continuous recording being made is broken into chunks.

#### Save Track Log

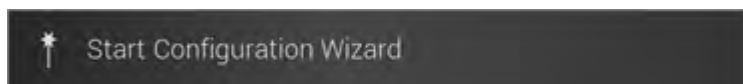
Default is ON

Track logs, consisting of the sequence of positions given by the GPS receiver during a trip, can be saved together with trip logs. They can later be displayed on the map. This option causes **Drive** to save the track log whenever it saves a trip.

#### Trip database size

This field shows the current size of the trip database, and is the sum of all trip and track logs saved.

## Start Configuration Wizard

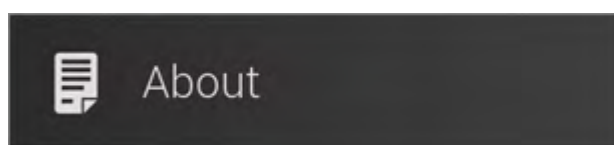


Tapping this button from the Settings screen will re-run the *Configuration Wizard*, which is normally run when you first enter the **Drive** app.

The *Configuration Wizard* process is described fully in the [Configuration Wizard section](#) of this eGuide.

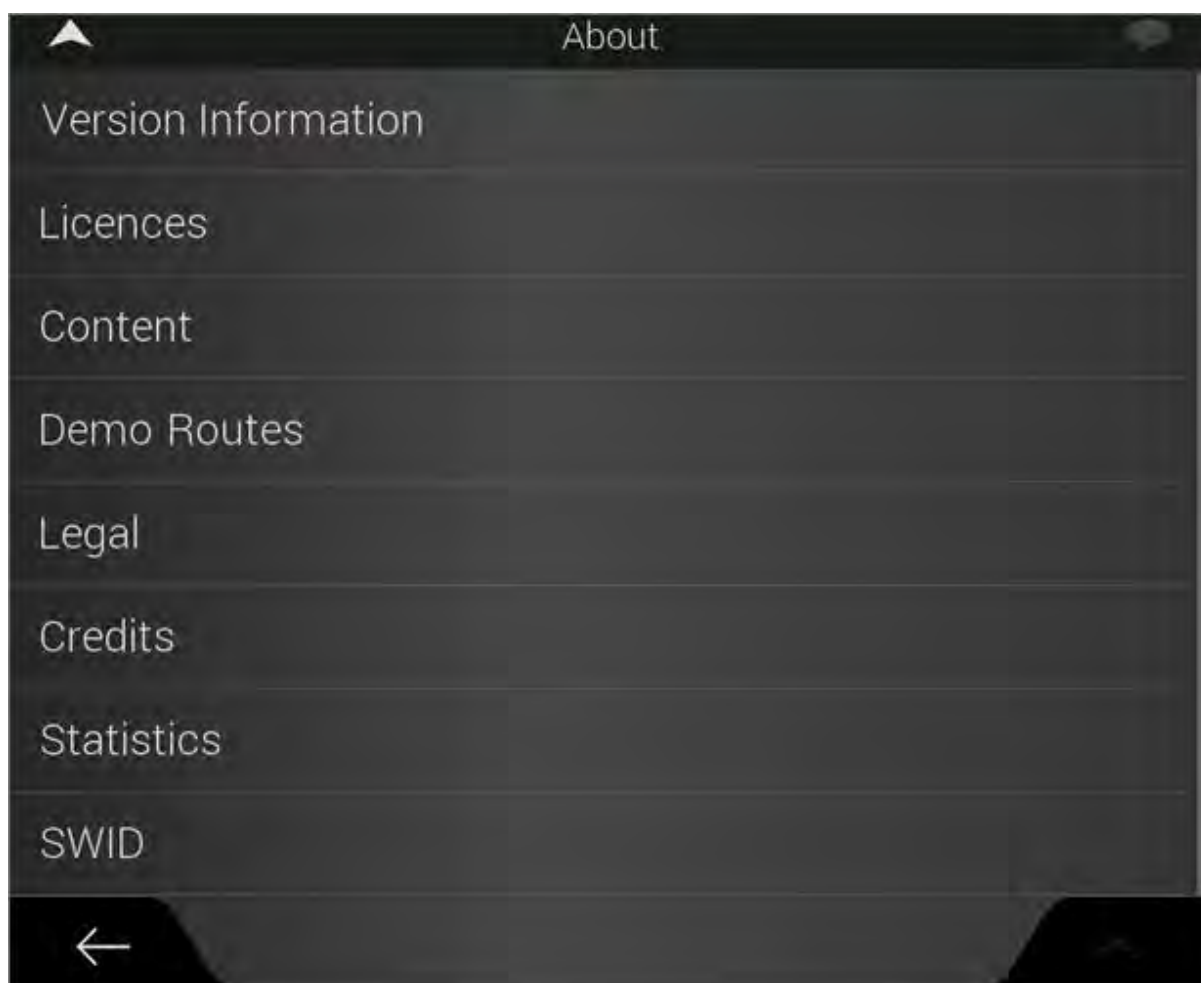
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## About



Tapping the **About button** from the Main menu displays the **About screen**, which displays a number of options linked to sub-screens.

These screens contain information related to software licenses, version numbers, legal disclaimers, and so forth.



# Routing

## Routing

---

Routing refers to the process of creating a path to follow to get to your destination (or multiple destinations). In the **Drive Mode** app on the **HX-1**, a route can be described as a path to follow to:

- a specific address
- the center of a town or suburb
- a POI (Point of Interest)
- a Saved Location (or favourite)
- an entry in your history (places which you have searched for previously)
- a specific latitude / longitude (coordinates)
- Coordinates contained within an image file

Once you have created a route

### Simple Routes

The simplest form of route is one where the START point is your current location, and the END point is one of the above.

You can also have a simple route, where the START point is NOT your current location, but any location from those types listed above.

### Multipoint Routes

It can also be a complex route, where the start point is your current or any other location, where there are multiple waypoints along the course of the route. This is known as a multipoint route.

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## Routing Sections in this eGuide

See the following sections for information on routing:

1. Simple Routes
2. Multipoint Routing
3. Itinerary
4. Route Information
5. Alternative Routes
6. Route Summary screen
7. Route Optimisation
8. Modifying Active Routes

## Searching for a Destination

An important aspect of routing is finding the places you want to get to. There are a number of topics covering this in the [Searching chapter](#) of this eGuide

1. Searching in all categories of searchable items
  2. Searching for an Address
  3. Searching for Places (POIs)
  4. Saved Locations
  5. Using History
  6. Searching for a Coordinate
  7. Searching using Pictures
-

## Simple Routes

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A simple route is one where you have a single destination from a starting point. The starting point may be your current location (the most likely scenario), or any arbitrary point.

### For Your Information...

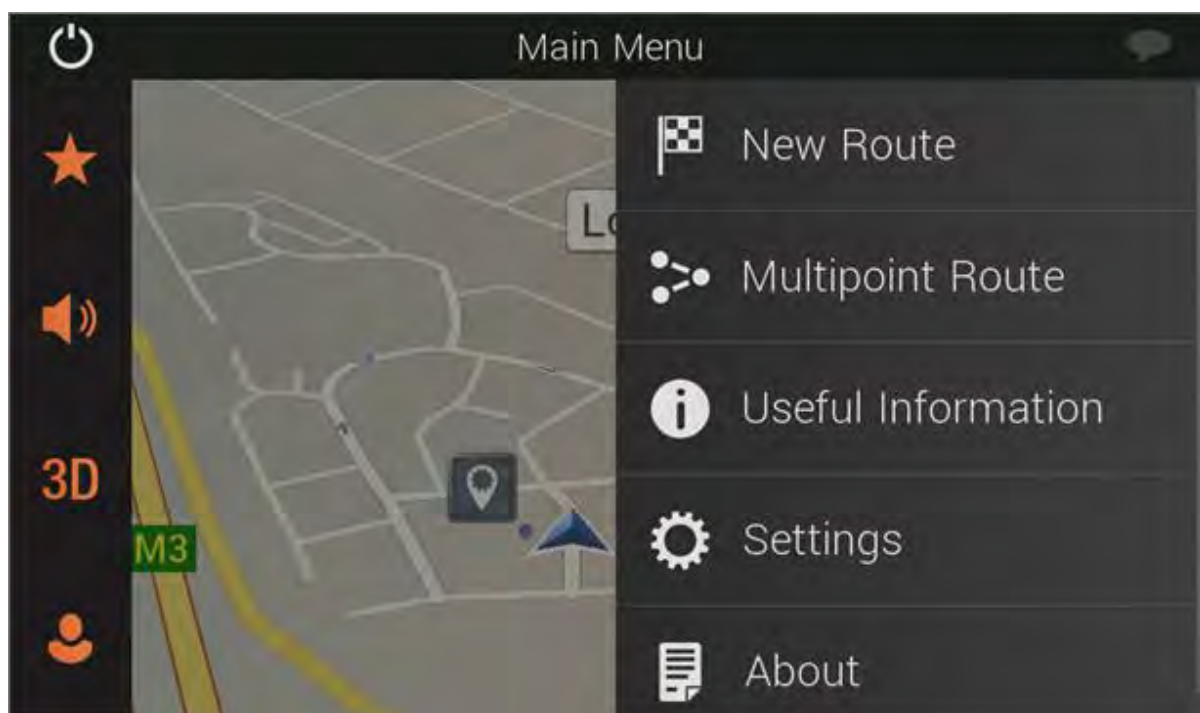
A route can start out as a Simple Route, and you can add one or more points to it, so that it becomes a Multipoint Route.

Conversely, If you have a Multipoint Route, you can delete points from it until it consist of only a start and end point, effectively converting it into a Simple Route.

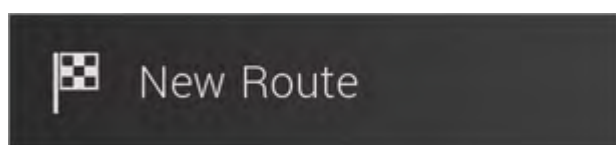
In this section, we show how to create a simple route, starting at your current location.



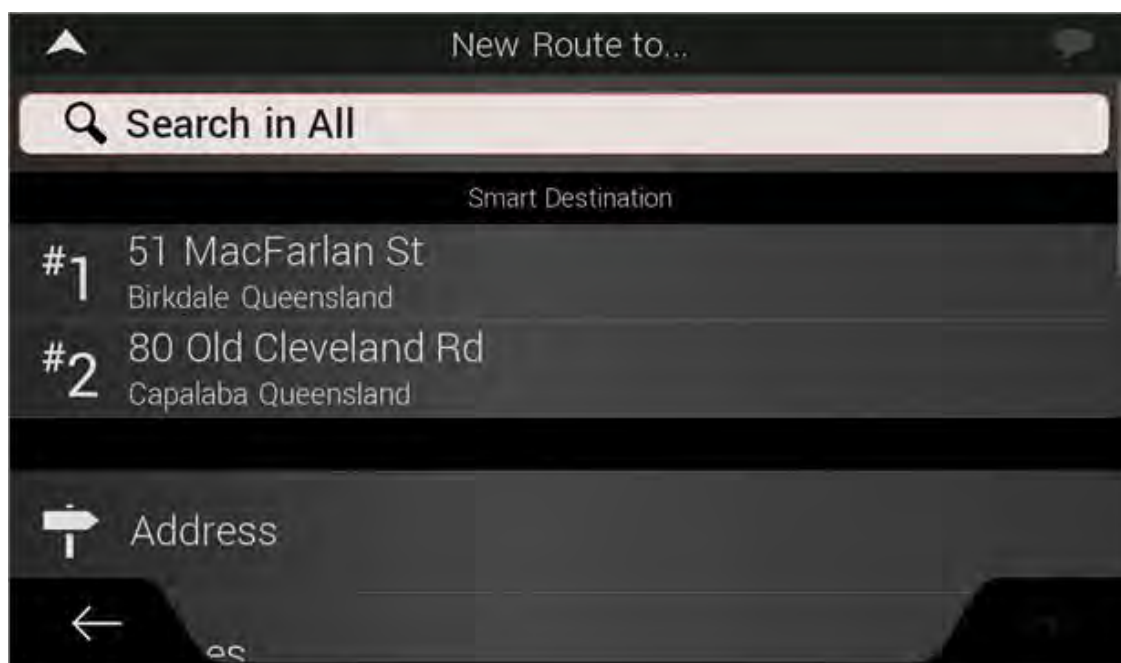
Open the Main Menu, by tapping the **Main Menu button** at lower left from the Main screen.



## Creating a Simple Route

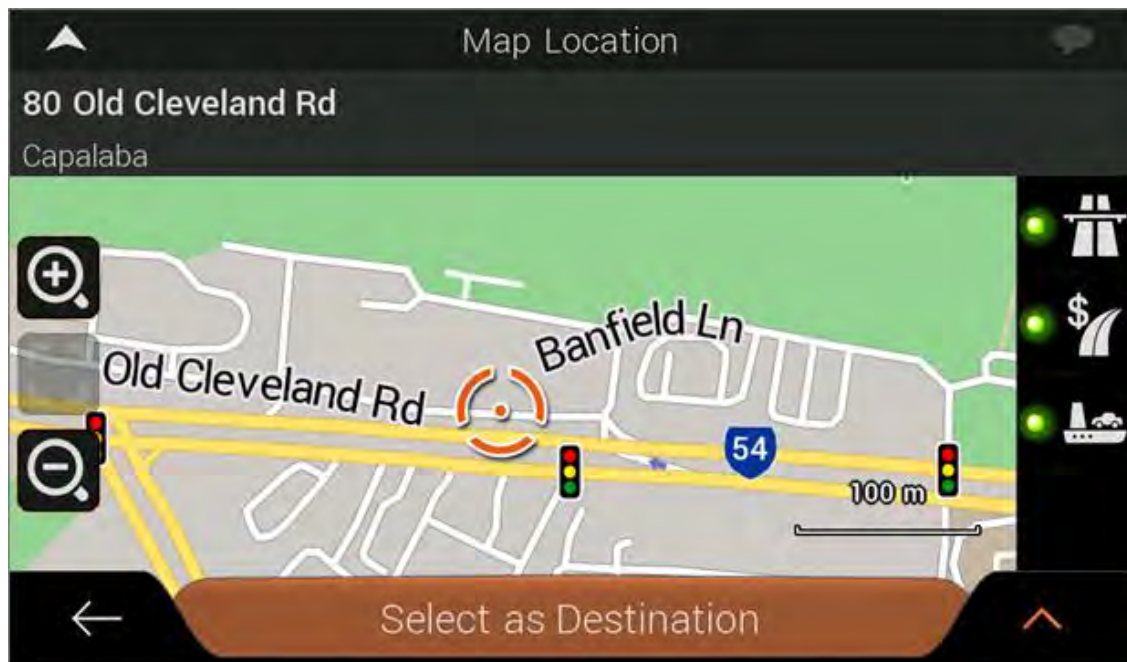


Tap the **New Route button**, the **New Route To...** screen will open.



Choose your destination for the route using one of the options in the [Searching section](#) of this eGuide

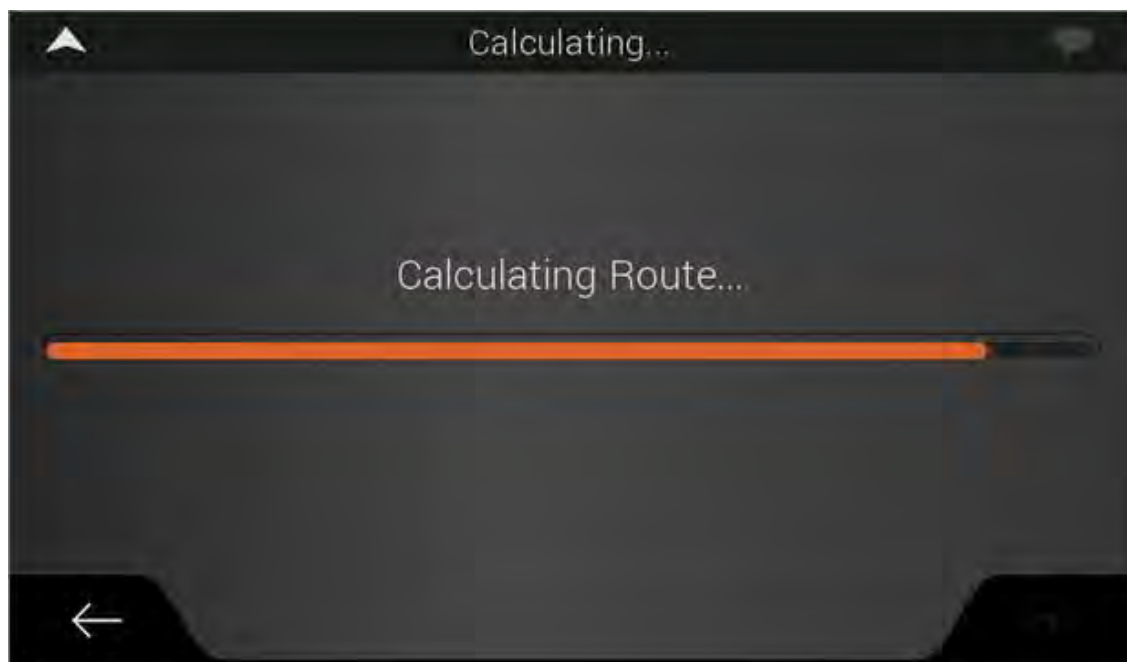
Once you have chosen the destination, you will see a preview of that location on the Map Location screen, as shown below.



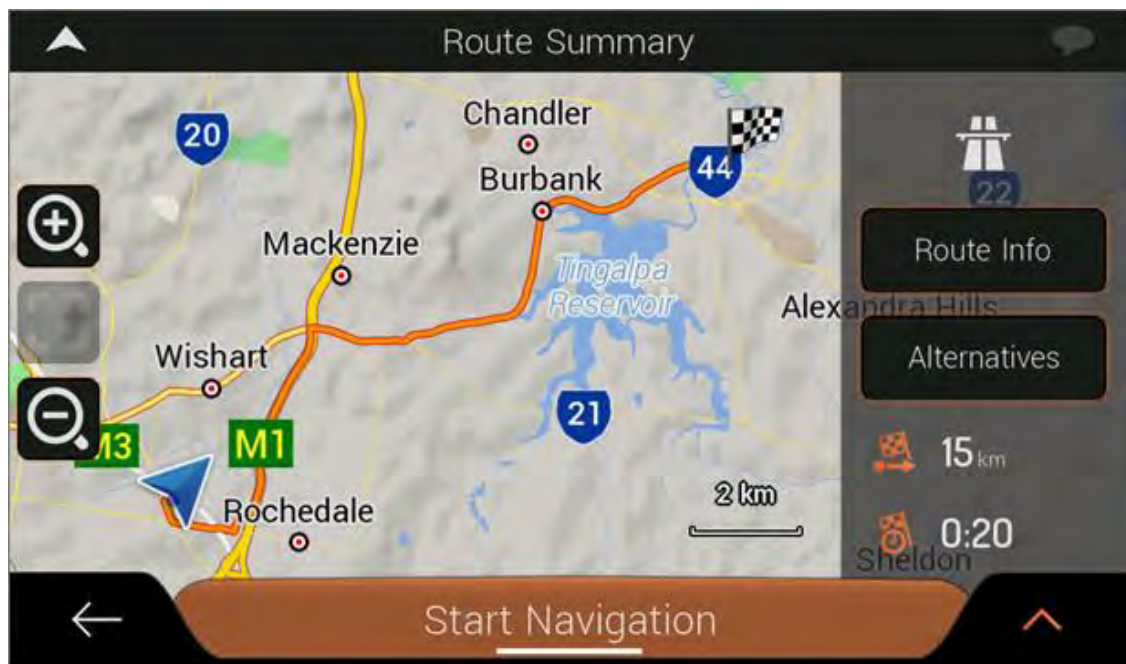
If you are happy with the chosen destination as shown, tap the **Select as Destination** button.

**Drive** will then calculate the route, then display the **Route Summary** screen.

See the [Route Summary screen section](#) of this eGuide for more information.



After route calculation, the Route Summary screen is shown.



On the Route Summary screen, you can wait for the 10 second countdown (as indicated by the white bar on the button) to start routing to your chosen destination automatically, or tap the **Start Navigation button** to skip the countdown and start routing immediately.

## Multipoint Routing

As with any route, a Multipoint Route starts with a single point, which may be the current location, or it may be any arbitrary location. Whereas a Simple Route has only a start and an end point, a Multipoint Route has a start, an end, and one or more route points (waypoints) in between.

### For Your Information...

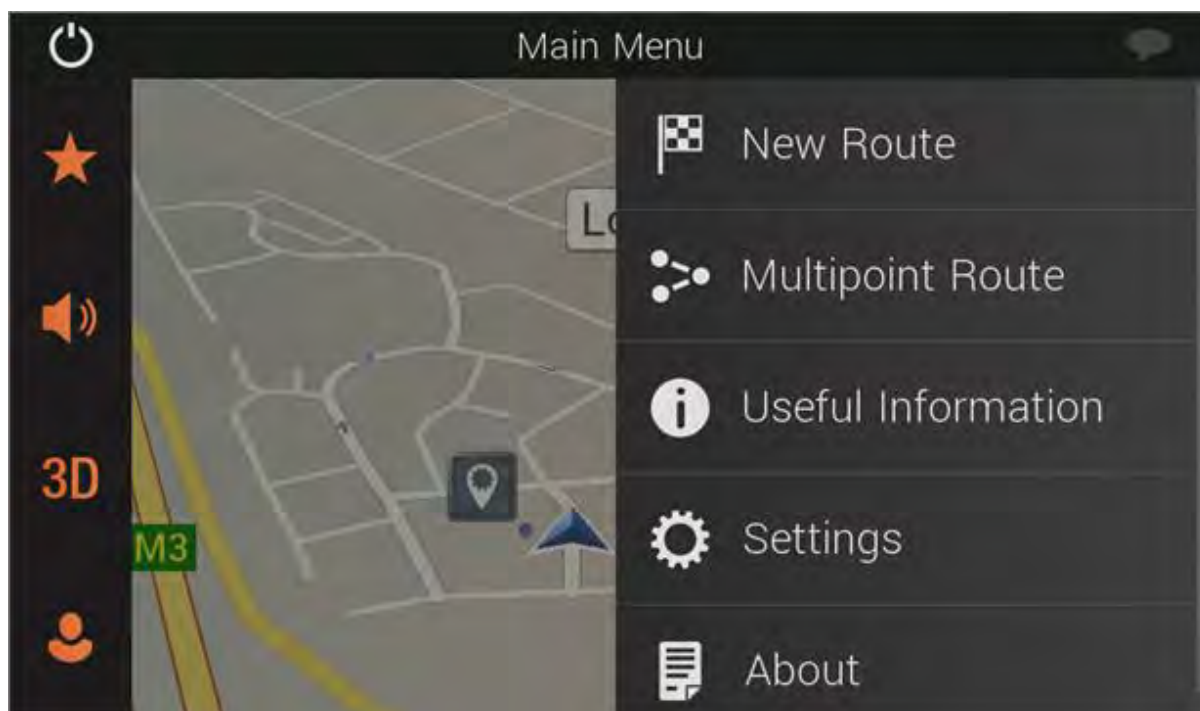
A route can start out as a Simple Route, and you can add one or more points to it, so that it becomes a Multipoint Route.

Conversely, if you have a multipoint route, you can delete points from it until it consists of only a start and end point, effectively converting it into a simple route.

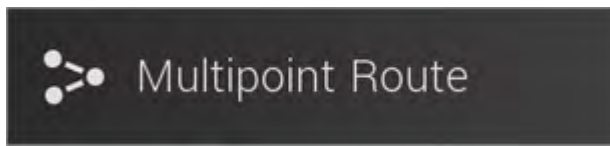
In this section, we show how to create a multipoint route, starting at your current location.



Open the Main Menu, by tapping the **Main Menu button** at lower left from the Main screen.



## Creating a Multipoint Route



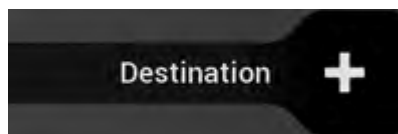
To create a Multipoint Route, tap the Multipoint Route button on **Drive's** Main Menu.

The **Multipoint Route** screen will open, as shown below.



As you can see, initially, the new multipoint route consists only of only the start point (which defaults to your current GPS position). At this time, no destination is set.

## Setting the Destination

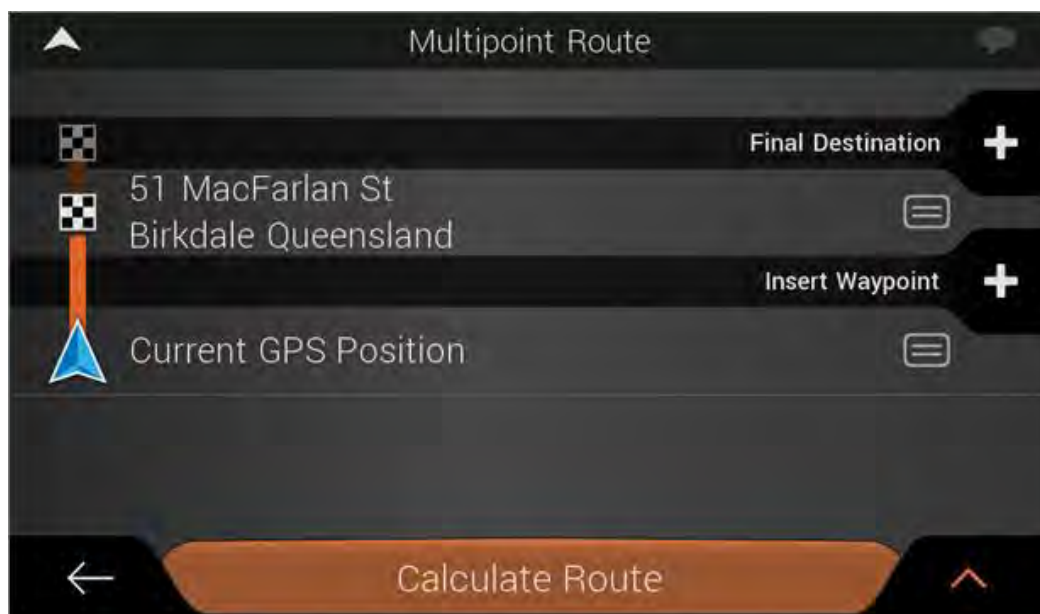


Tap the **Destination + button** to search for your destination.

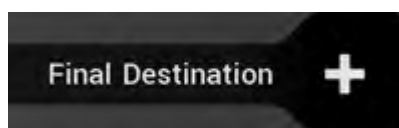
You can use any of the available Search options to find your destination. See the [Searching section](#) of this eGuide for full details on all searching options.

Once you have searched for and selected a location, the Multipoint Route screen will show it as the destination.





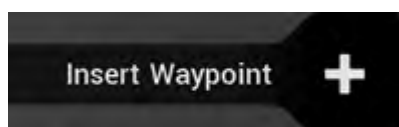
### Changing the Destination



Once you have added a destination, a new button appears at the top of the list of points in the route.

This is the **Final Destination button**. The Final Destination button allows you to add a new destination *AFTER* the current destination. If you do this, the new destination becomes the final destination, and the original destination becomes a waypoint, appearing before the new destination.

### Adding Waypoints to a route



You can add as many points between the start point and the destination as you like.

Tap the **Insert Waypoint button**, use the search tools to find the address or place you want, select it, and it will be added to the route.

Each time you add a new waypoint, another Insert Waypoint button appears, allowing you to continue to add points between existing waypoints.

Continue to add, remove or change points, re-order points, change the destination, etc. until you are satisfied with your route.

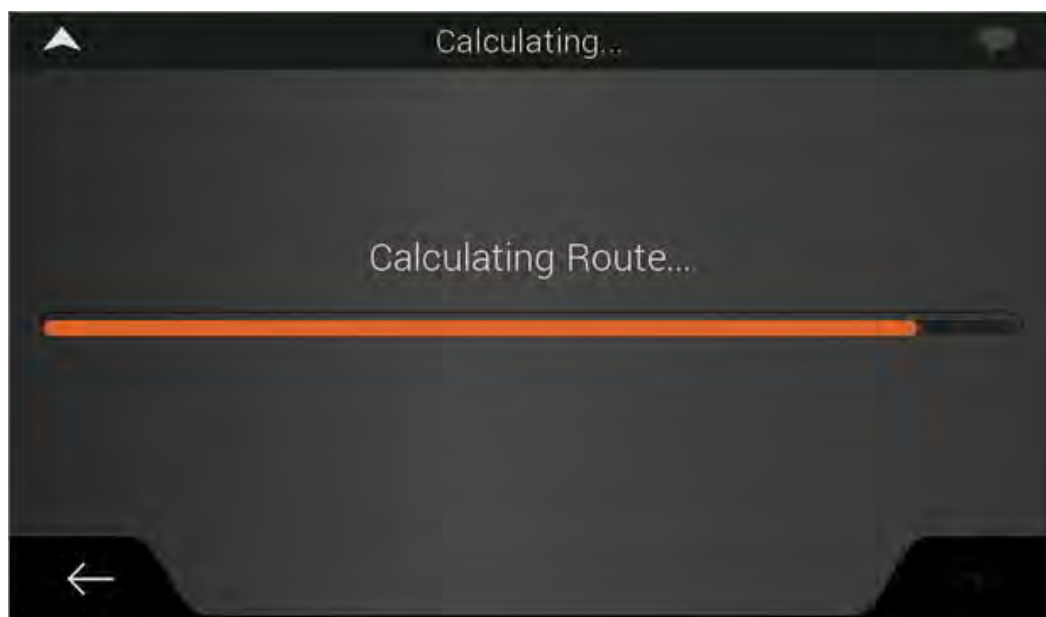


Shown below is the completed example.



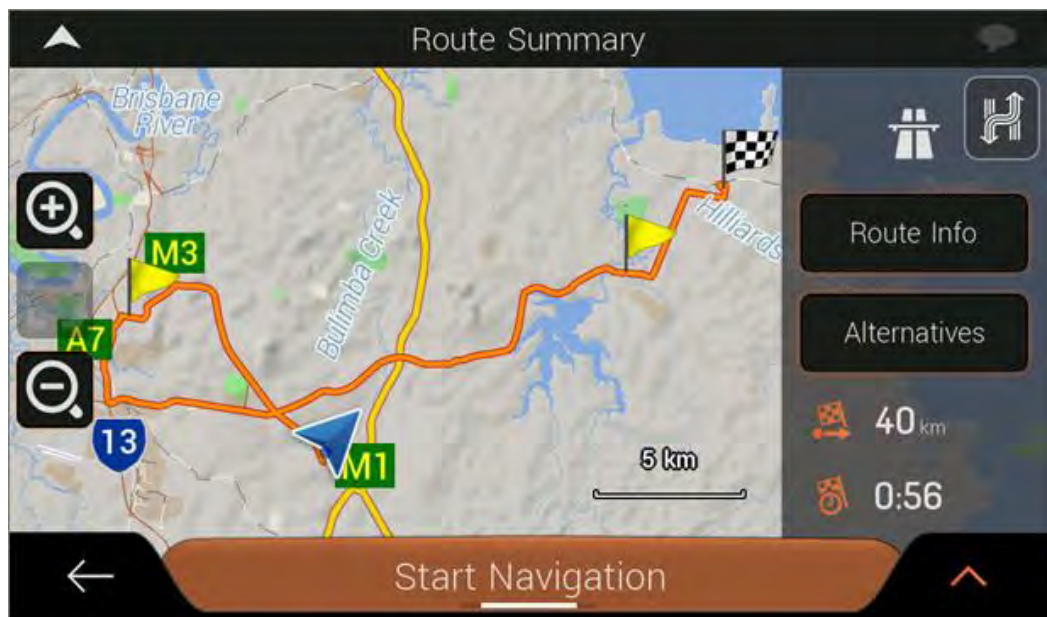
In the example route, we have a start point, two intermediate waypoints, and a destination.

Once complete, tap the **Calculate Route button** to build the route. You will see a progress screen while the route is built.



After calculation is complete, you will see a summary of the route, shown below.

### Route Summary screen



The **Route Summary screen** is displayed after the route is calculated, and shows a number of items related to the calculated route.

See the [Route Summary screen section](#) of this eGuide for more information.

Tap the **Start Navigation button** or wait for the 10 second count down to start navigating along the selected route.

The screen will change to [Navigation View](#), as shown below.



As you can see in the example above, the Route Progress bar (1 above) shows the start, intermediate waypoints, and destination on a progress line.

You can also see the standard data fields (2 above) showing ETA, duration and length of the route.

## Route Point Options

### Start Point options

Tapping the **Options button** on the start point (Current GPS Position) displays some options which you can use on this point. These options are:

#### Save Location

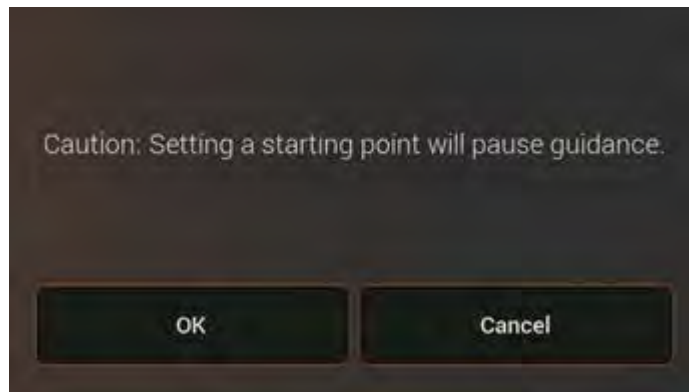
Save this point as a named location in the list of places in your [Saved Locations list](#).

#### Set Starting Point

This option allows you to set the start point to any location you like.

This option can be used to check a route between two or more locations for future reference, for example to simulate the route or to check the route distance and / or timings.

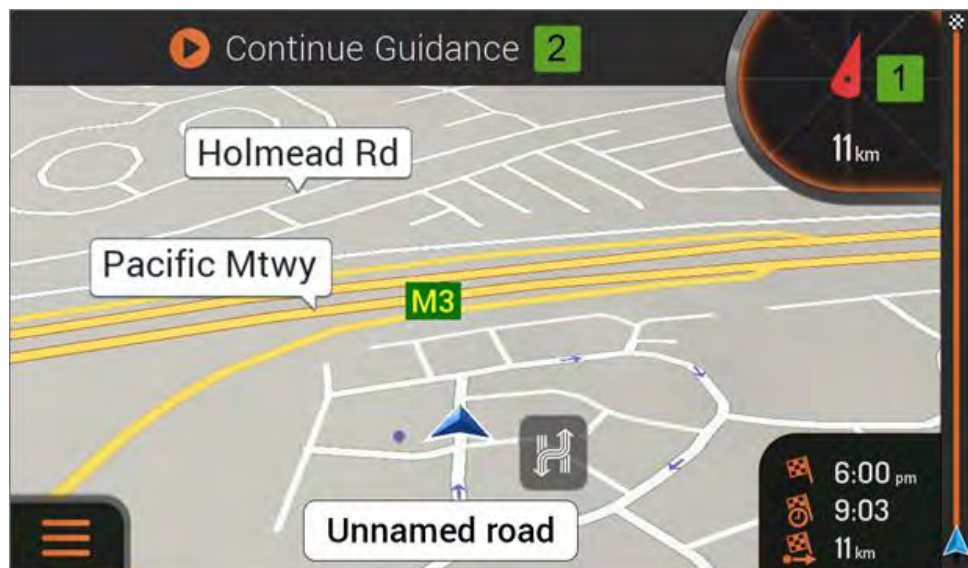
If you select this option, you will see a warning point that any current navigation / guidance operations will be paused.



You can then choose the starting point using any of the methods to search as usual.

Once you have chosen the start point, you can then calculate and preview, and / or save the route.

You can also switch to Navigation view while you have the route active. The view looks a little different while in this mode, as shown below.



While you have a route active which starts at a different location to your current location, normal navigation function is suspended. You see an indicator on the screen indicating the distance to the destination of the route and the approximate direction in which the destination lies (shown at **1** above).

Tapping the **Continue Guidance button** (shown at **2** above) on this screen will drop the start point you specified, recalculate the route, and start navigation from your current position to the original destination, ignoring the start point you had set. The view will revert to the normal view displayed while in navigation mode.

**Show on Map**

Show a preview of this point's location on the map screen. The point will be shown with an icon, which could be one of the following:

**The vehicle marker**



This shows that the point is the starting point, which is either at, or very close to your current location.

**A blue flag**



This shows that the point is the starting point for the route, but it is NOT your current location.

**A yellow flag**



This indicates that the point is a waypoint along the route (ie. a point which appears between the start and end points of the route).

### A chequered flag



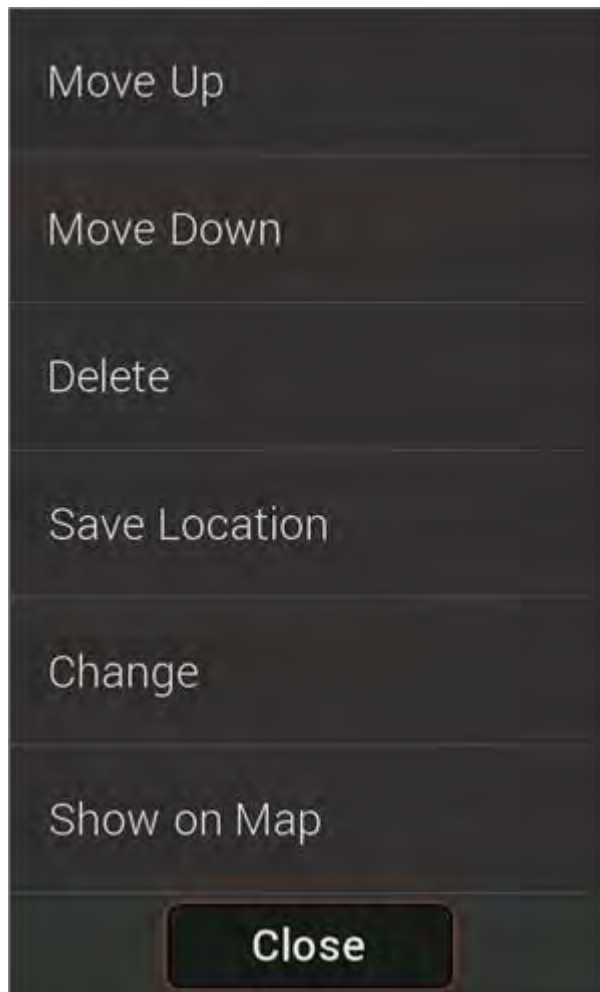
As you might suspect, a point marked with a chequered flag is the final point in the route, which is the destination.

### Other Point options



All other points (apart from the Start point) which form part of a multipoint route will have an option button adjacent to them, which allows you to perform several operations *on that specific point*.

Tap the **Options button** to open a menu showing the available options for that point.



The available options are:

**Move Up**

Move this point UP in the list of points for the current route.

**Move Down**

Move this point UP in the list of points for the current route.

**Delete**

Delete (remove) this point from the list of points for the current route. You will not be prompted to confirm whether you wish to delete the point.

**Save Location**

Save this point as a named location in the list of places in your **Saved Locations list**.



### **Change**

Select a different point completely and replace this point with the new one for the current route.

### **Show on Map**

Show a preview of this point's location on the map screen.

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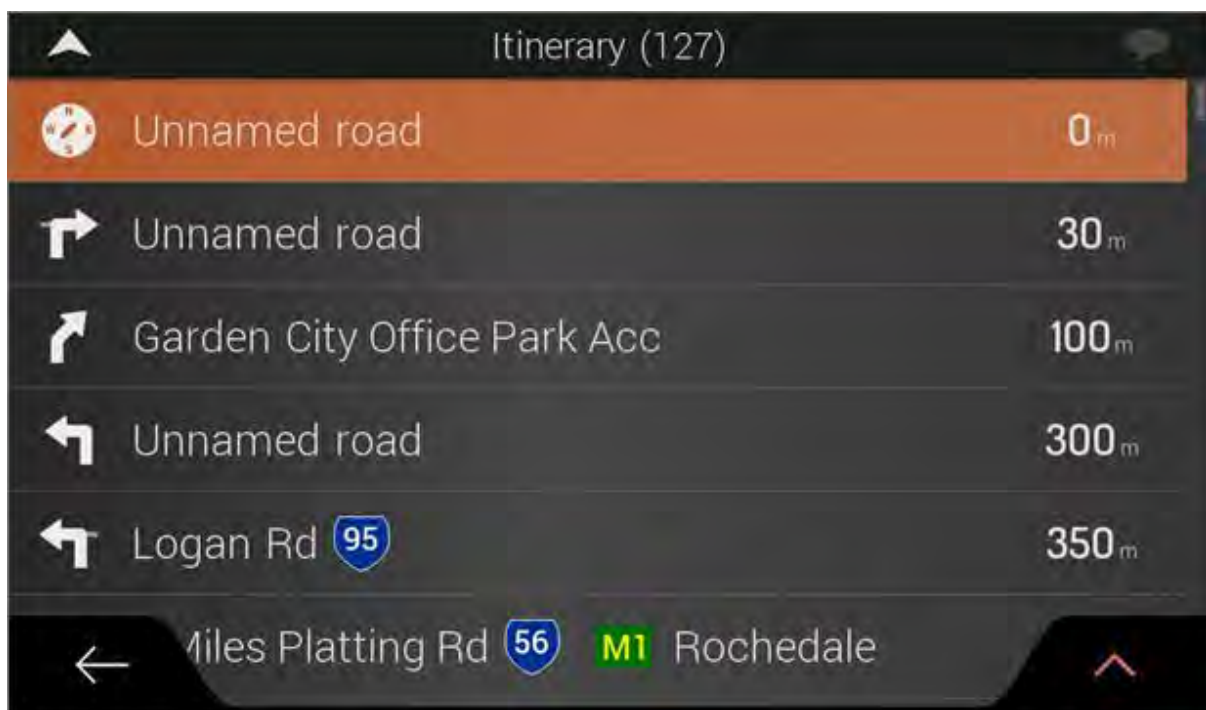
## Itinerary



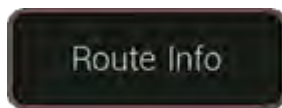
While on the Route Summary screen, tapping the menu button and choosing Itinerary will display the route as a series of steps showing the manoeuvre required and distance between each manoeuvre.

The number of manoeuvres required to reach the destination are shown in brackets at the top of this screen.

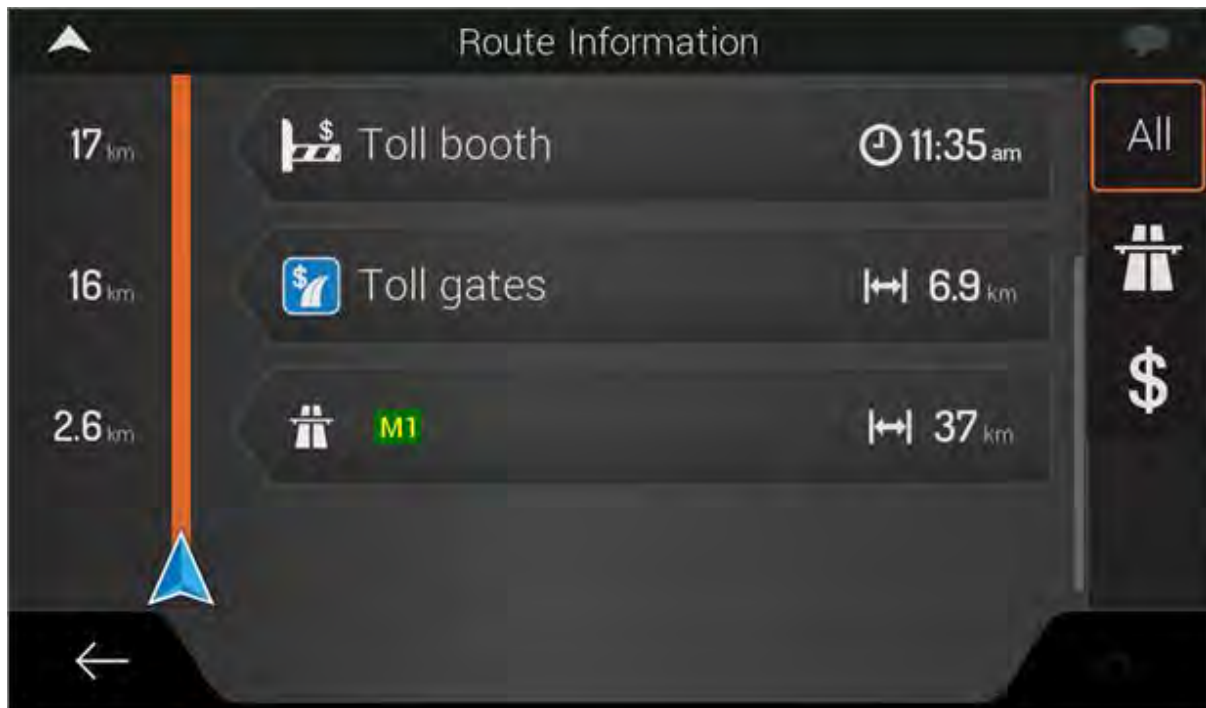
The current manoeuvre (where you are along the route now) is shown highlighted.



## Route Information



Tapping the **Route Info button** from the Route Summary screen will display the Route Information screen, as shown below.



The Route Information screen displays some additional information related to the route.

It shows things such as distances along the route where there are motorways, tolls, etc.

If the route is a multipoint route, it will show expected ETAs at waypoints along the way.

## Alternative Routes

When **Drive** calculates a route, it does so using an algorithm to find the best path to the destination, according to the rules you have specified in the **Route Preferences** section under **Settings**.

This may not be the way you would prefer to go, or there may be a number of possible routes to that destination.

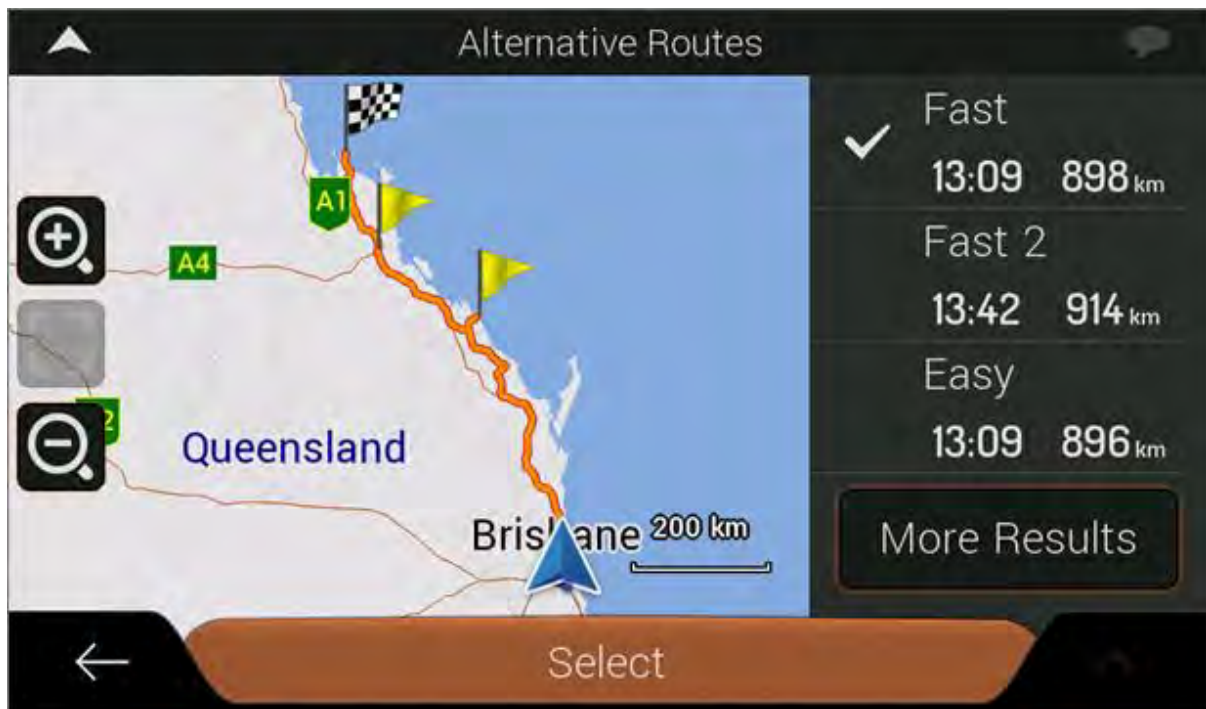


Tapping the **Alternatives button** on the Route Summary screen will open the Alternative Routes screen.

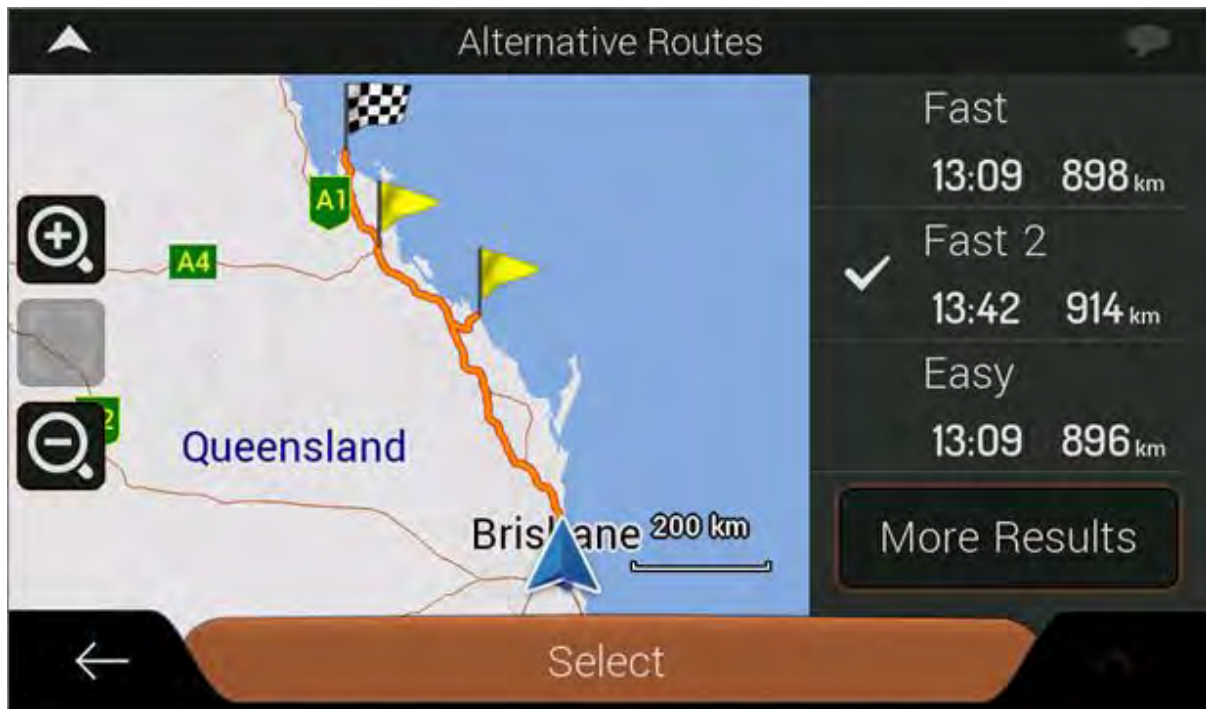
**Drive** will calculate a number of other routes to get to the current destination, and display these in a list down the right side of the screen, with the duration and distance of each calculated route.

The currently selected route is marked with a tick.

A preview of the currently selected route is displayed on the map.



Tapping one of the alternative routes will display a preview of that route on the map, as shown below.



More Results

Tapping the **More Results** button on the Alternative Routes screen will calculate more route options for this destination.

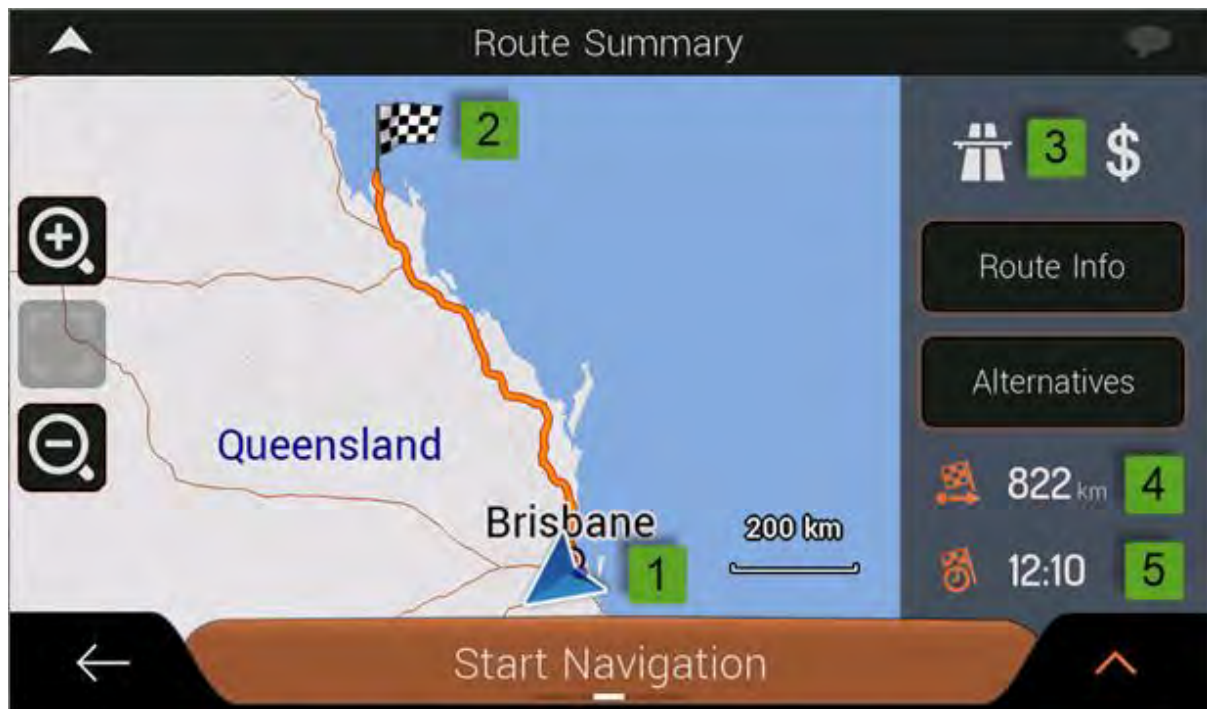
Once you are happy with one of the displayed routes, and you have it marked (ticked), tap the **Select** button to choose that route for the journey.

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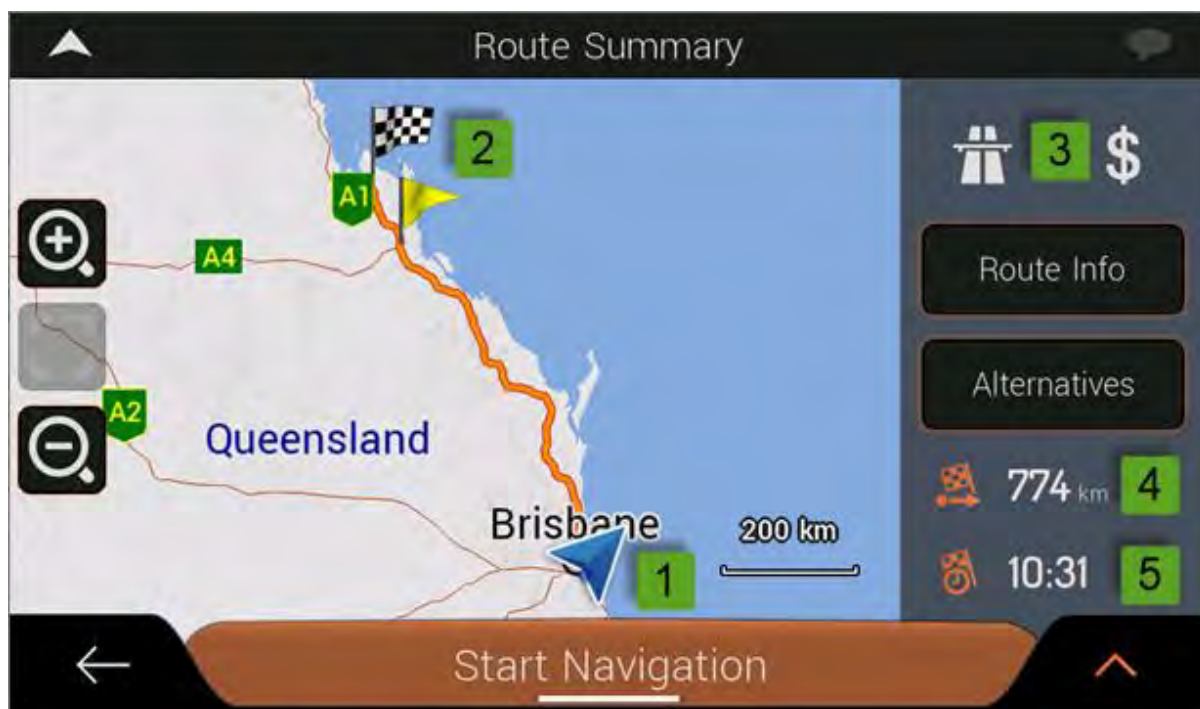
## Route Summary screen

The **Route Summary screen** is displayed when the destination has been chosen using one of the available search options.

The Route Summary screen is displayed after the route is calculated, but prior to actual navigation starting.



*Route Summary shown with a Simple Route (Single Destination)*



*Route Summary shown with a Multipoint Route*

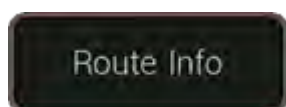
The Route Summary shows a number of items related to the calculated route.

1. Starting point of the route (either the current location or another location chosen as the start point)
2. Destination and Waypoint markers (waypoint markers appear only for multipoint routes)
3. Warnings about the route (in this example motorways and tolls)
4. Length of the route
5. Approximate travel time for this route

The Start Navigation button counts down for 10 seconds (indicated by the small white bar on the button), after which **Drive** will automatically begin navigating along the calculated route.

You can pre-empt the count down by tapping the Start Navigation button at any time during the count down.

### Route Info button



Tap the **Route Info button** to see some further information regarding the route. See the [Route Information section](#) of this eGuide for further information.



### Alternatives button

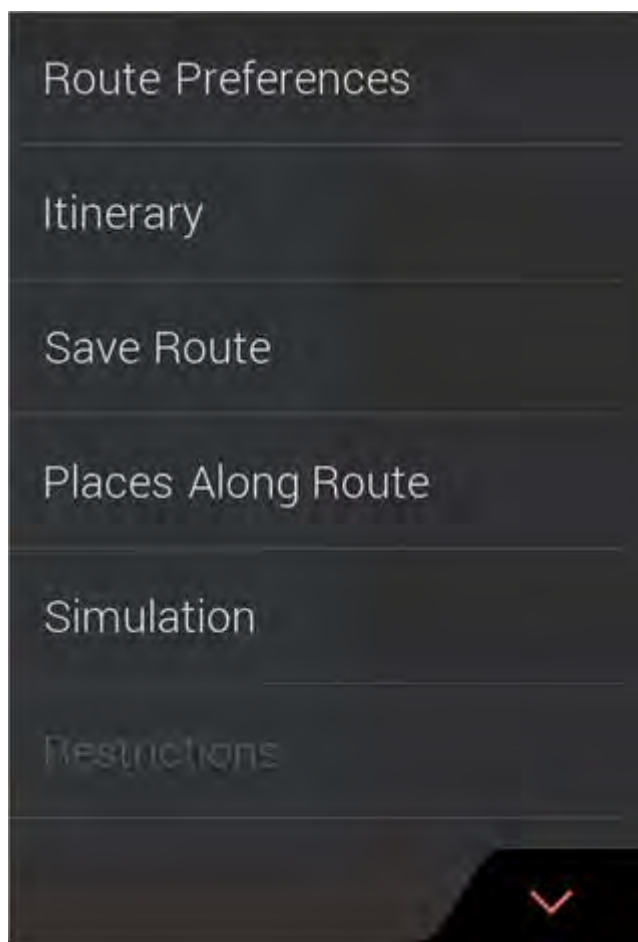


Tap the **Alternatives button** to calculate and preview alternative routes to get to the current destination. See the [Alternative Route section](#) of this eGuide for further information.

### Route Summary menu



The **Route Summary menu** is opened from the Menu button at lower-right of the Route Summary screen.



It has a number of options:

## Route Preferences

This is a shortcut to get to the [Route Preferences section](#) of the Settings screen.

## Itinerary

This is a shortcut to the [Itinerary screen](#), which shows the route as a list of manoeuvres.

## Save Route

Save this route as a named route for use at a later time. Use the [On-Screen Keyboard](#) to enter a name for the route.

## Places Along Route

Display a list of known Places (POIs) which appear along the route. The list shows

- Name of the Place
- Distance from the current location
- an indicator giving a guide as to how far you must deviate off the route reach that Place

The list also allows you to filter the list based on the categories shown

- Hema Places
- HERE Places
- Camps Australia Wide POIs

## Simulation

Selecting the simulation option will run through that route as if you were driving it, but without moving. It's a bit like watching a movie of your route. Controls appear on the screen allowing you to skip forward and backward between different stages of your route. You can also speed up the simulation playback rate by factors of 4X, 8X and 16X normal speed.

## Restrictions

No information available at this time

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## Route Optimisation

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When you have FOUR or more points in a route (including start and end points), **Drive** can optimise the route in several ways. You cannot optimise a route which only has THREE points (a start, end and one intermediate point).

Route optimisation is performed *BEFORE* route calculation.



When on the **Multipoint Route screen**, tap the **Menu button** to view options, and choose one of the optimisation options from the menu.

### Optimise Waypoints

When you create a multipoint route, you create and add points in the order you want to visit each location along the way to the destination.

The Optimise Waypoints option will re-order the waypoints in the most logical way, respecting your choice of final destination. ie. it will NOT change the final destination which was set when you created the route.

### Optimise Route

When you choose the Optimise Route option, **Drive** will reorder the route points, including the final destination, to produce the most efficient method to traverse the set of points within the route.

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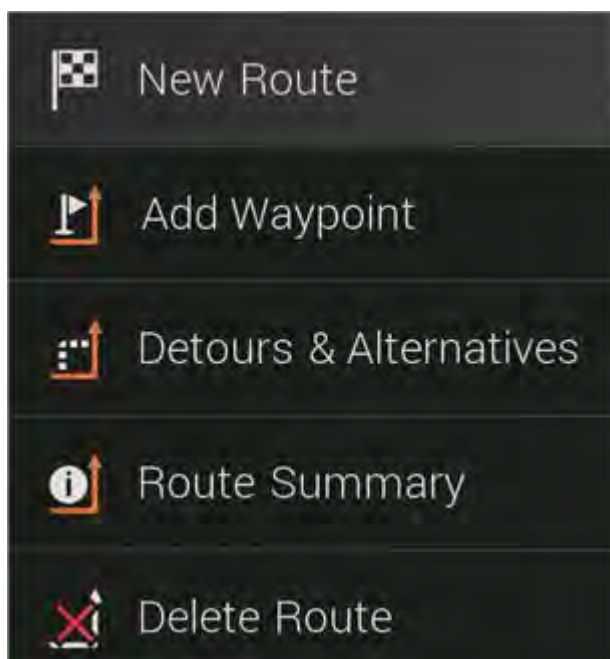
## Modifying Active Routes

While you have an active route, you can perform several operations while the route is being followed.



Tapping the **Main Menu button** while navigating a route will display the Main Menu, with some additional options which only appear while navigation is active.

**If a Simple Route is in progress, the last option visible will be Delete Route**



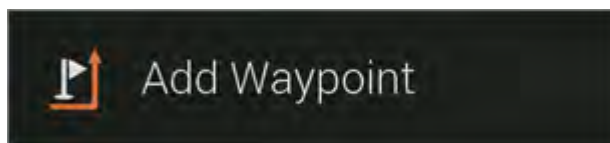
**If a Multipoint Route is in progress, the last option visible will be Delete Waypoint**



### Options available while routing is active

The available options are:

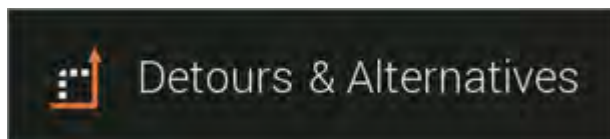
#### Add Waypoint



Using the **Add Waypoint option** while a multipoint route is active will open the **Add to Route screen**, where you can search for a location to add as a new waypoint in the route.

Once a new location is selected, it will be added to the route *PRIOR TO THE NEXT WAYPOINT IN THE ROUTE.*

#### Detours & Alternatives



The **Detours & Alternatives option** allows you to make "on-the-fly" changes to the active route.

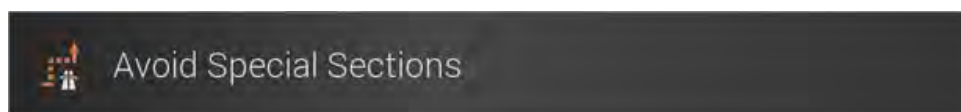
There are a number of sub-options available:

## Alternative Routes



The **Alternative Routes option** allows you to quickly flip to another route, while the current route is active. Tapping this button opens the **Alternative Routes screen**, which is detailed in the [Alternative Routes section](#) of this eGuide.

## Avoid Special Sections



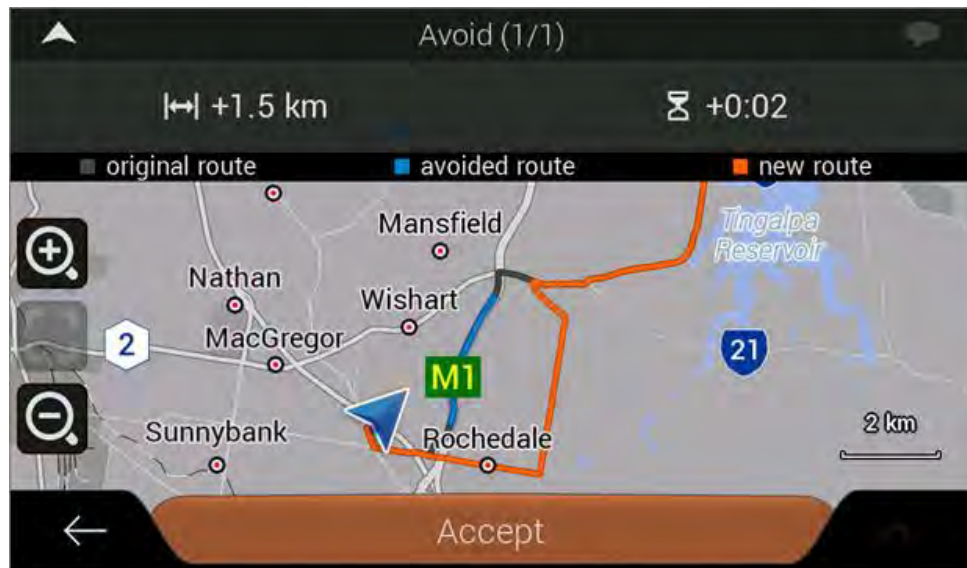
The **Avoid Special Sections option** allows you to avoid certain sections of the currently active route. These sections might be a motorway, or some other type of road which you would like to avoid. Tapping this button will open the Avoid Special Sections screen, shown below.



Tapping one of the displayed sections opens the **Avoid screen**, which shows:

- the original route
- the section of route which you elected to avoid
- the new route created to avoid the section you specified

At the top of the screen figures show any changes to the distance and time that the avoidance will make to the current active route. An example is shown below.



If you are satisfied with the new route which has been created to avoid the selected section of the original route, tap the **Accept** button. **Drive** will follow the newly created route, before re-joining the original route, and continuing with the navigation until the destination is reached.

### Avoid Specific Road



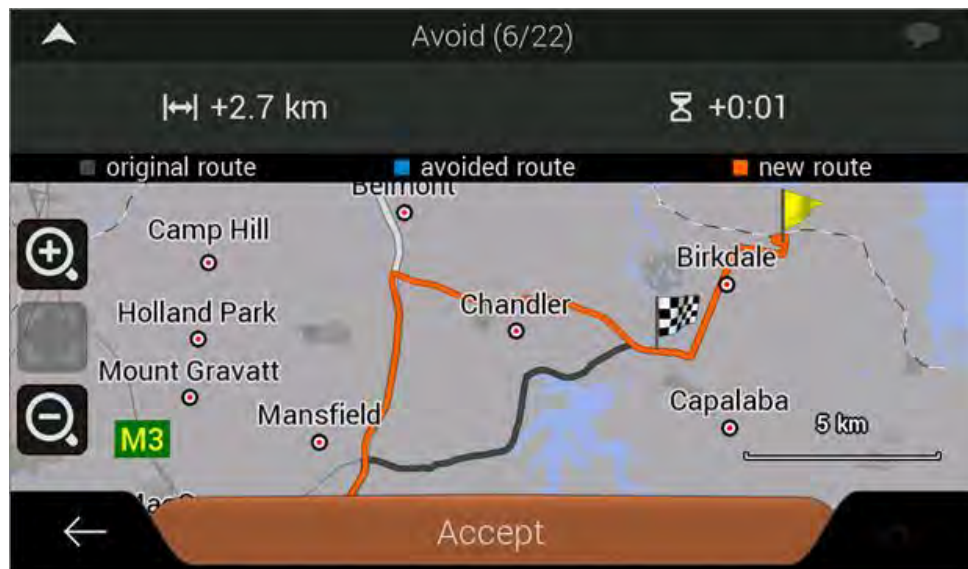
The **Avoid Specific Road** option allows you to bypass a specific road or street which forms part of the currently active route. Once the road has been avoided, **Drive** will return to the current route path.



Tapping one of the displayed roads listed as part of the original route opens the **Avoid screen**, which shows:

- the original route
- the section of route which you elected to avoid
- the new route created to avoid the section you specified

At the top of the screen figures show any changes to the distance and time that the avoidance will make to the current active route. An example is shown below.



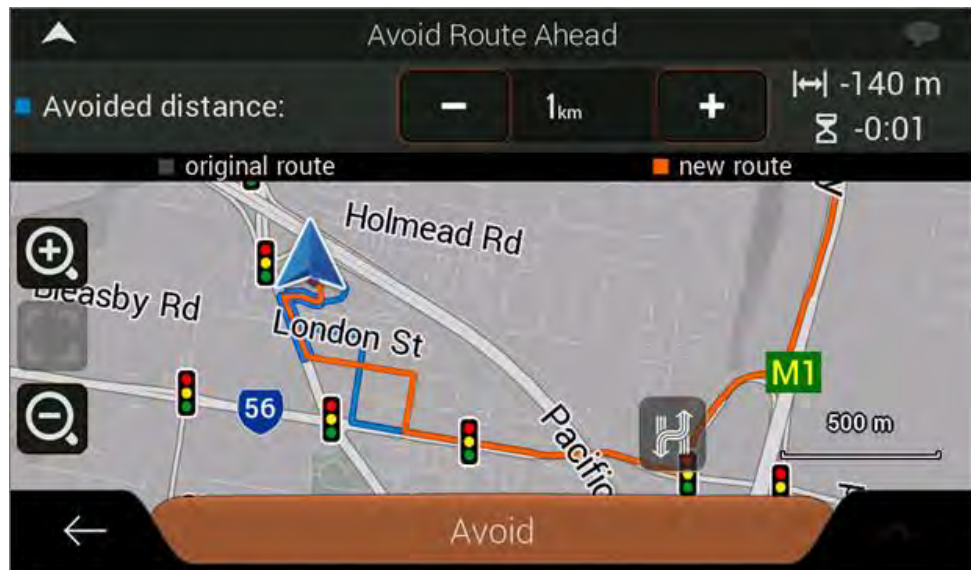
If you are satisfied with the new route which has been created to avoid the selected section of the original route, tap the **Accept button**. **Drive** will follow the newly created route, before re-joining the original route, and continuing with the navigation until the destination is reached.

### Avoid Route Ahead



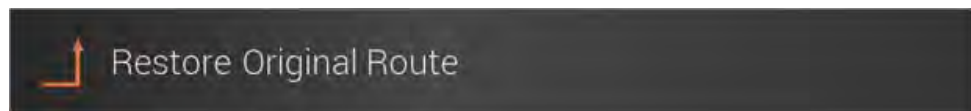
This option allows you to specify a distance which will be avoided for the current route. ie. you could specify a distance of 5km, which will cause **Drive** to stay off the current route for the next 5 kilometres, after which it will return to the current route path.



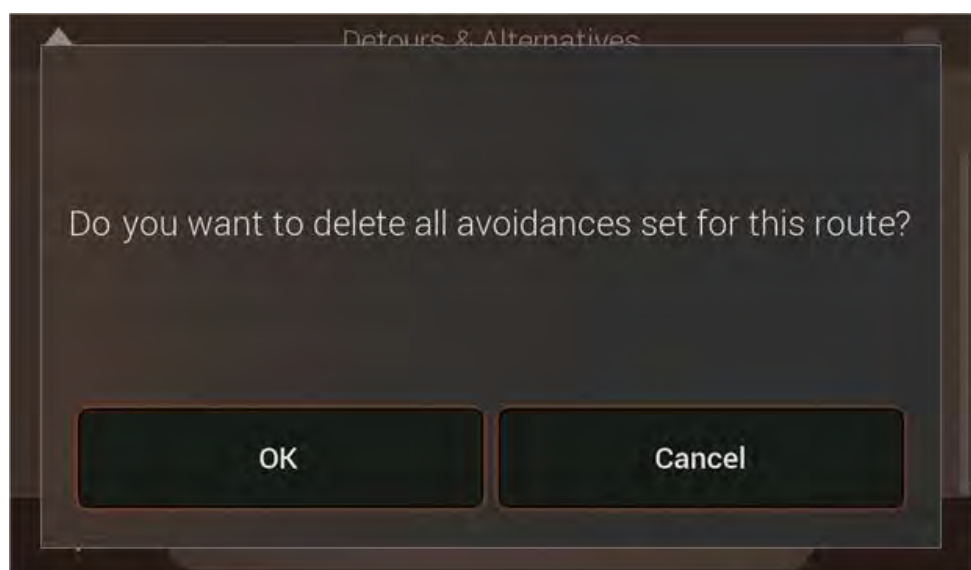


Use the + and - buttons to add / remove distance. When you are satisfied with the selected distance, tap the **Avoid button**. This will cause **Drive** to avoid the active route for that distance, after which it will return to the active route's path.

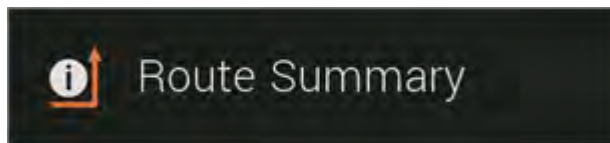
### Restore Original Route



This option will revert back to the original route if one of the preceding options has been used to alter the route. Tapping Restore Original Route will prompt you for confirmation, as shown below.

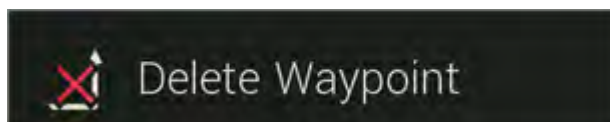


## Route Summary



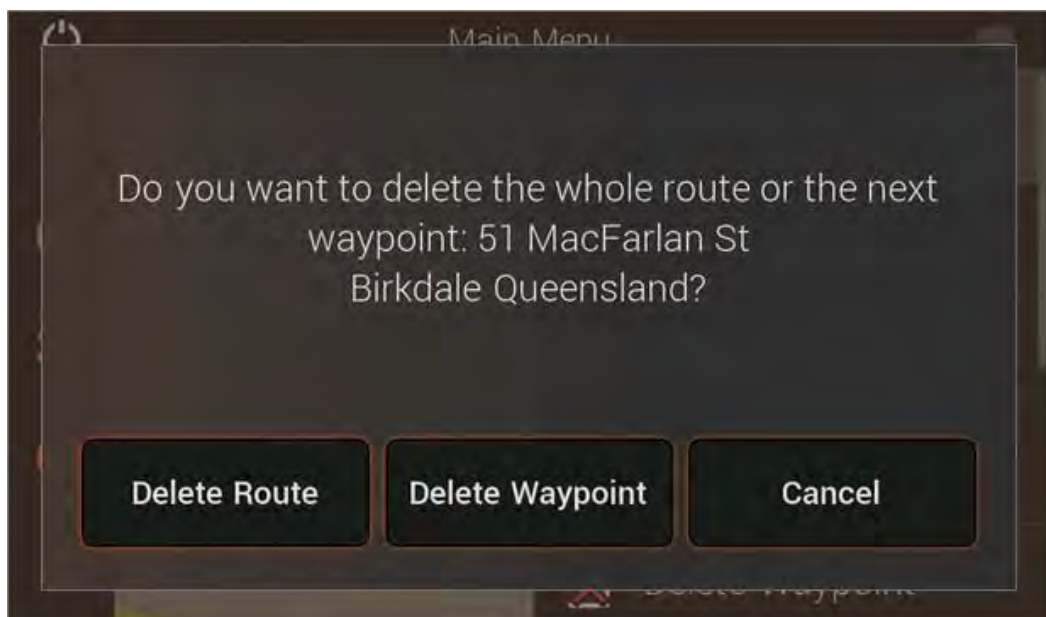
Displays the **Route Summary screen** for the currently active route. See the [Route Summary screen section](#) of this eGuide for full details.

## Delete Waypoint



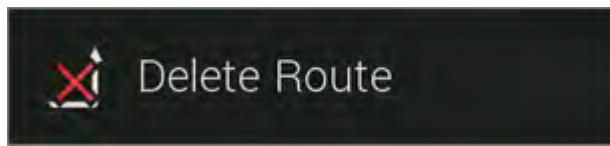
The **Delete Waypoint button** only applies when you are navigating a Multipoint Route.

The Delete Waypoint button will prompt you to confirm your action. You will be prompted as to whether you wish to delete the next waypoint along the route, or the entire route, as shown below.



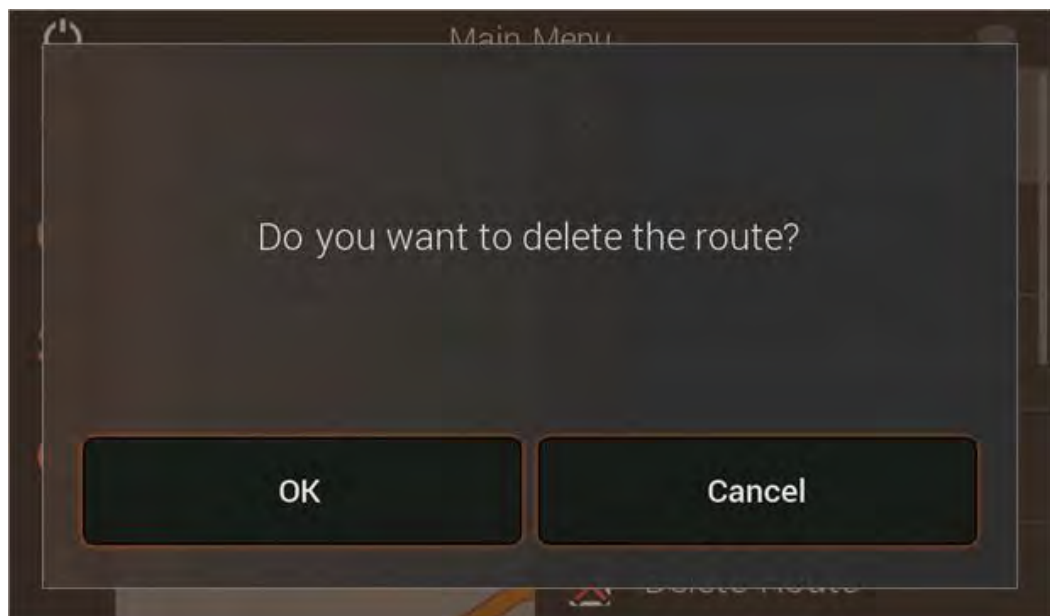


## Delete Route



The **Delete Route button** only applies when you are navigating a Simple Route.

The Delete Route button will prompt you to confirm your action. You will be prompted as to whether you wish to delete the next waypoint along the route, or the entire route, as shown below.



## Searching

### Searching

The main purpose the **HX-1's Drive** app is to get you to your chosen destination in a timely and efficient manner, following the road network, parts of which you may not be as familiar with as around your home region.

To accomplish this, you need to be able to find where it is you want to go, before choosing a destination, and navigating to it.

To find where it is you want to get to, you must first use the search tools within **Drive**, during which you select one or more places that you wish to travel to. Once you have found where it is that you wish to go, you tell **Drive** to take you there, causing it to calculate a route to the destination(s) selected.

You can search for and navigate to:

- Addresses
- Places (POIs, or Points of Interest - things such as petrol stations, landmarks, medical facilities, camp grounds, parks, etc.)
- Saved Locations (locations of interest which you have stored for later use)
- History items (previously found locations "remembered" by the **Drive** app)
- Saved Routes (routes to destinations which you have previously created and saved for later use)
- Coordinates (a simple location)
- Location information stored within image files

There are a number of ways in which you can search the known locations within **Drive**.

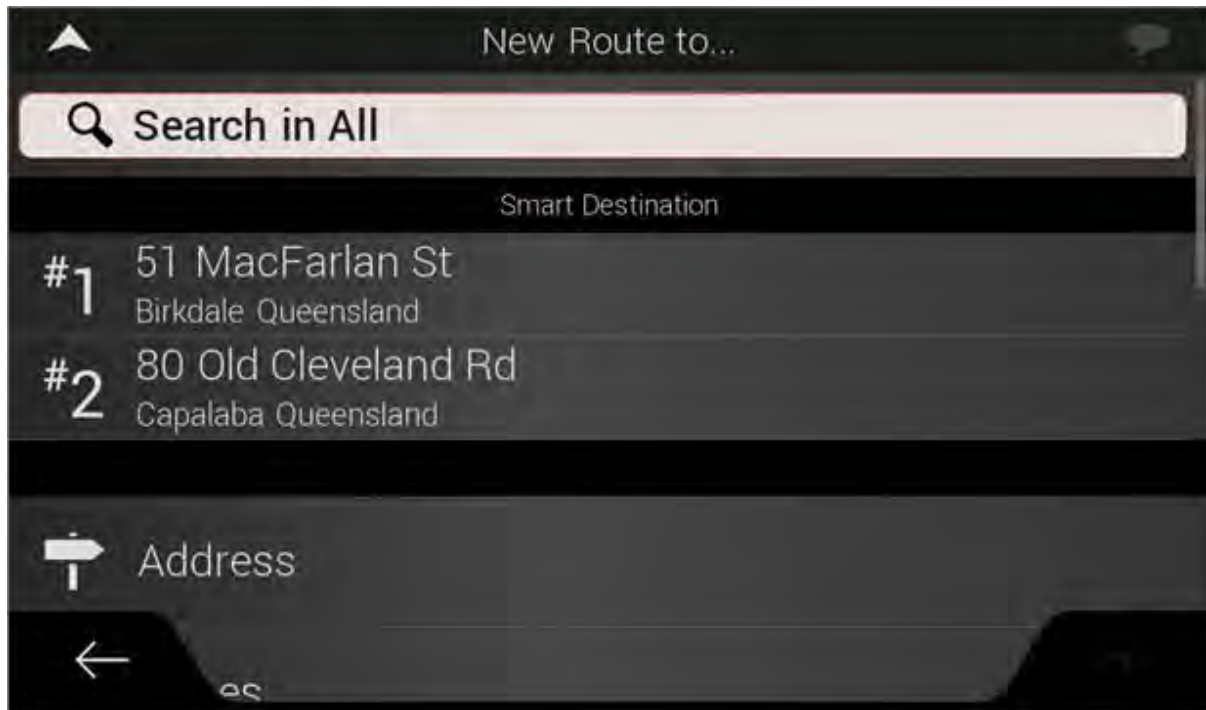
This section of the eGuide shows how to achieve this, within the following sections.

1. [Search in All](#)
  2. [Searching for an Address](#)
  3. [Searching for a POI](#)
  4. [Saved Locations](#)
  5. [History](#)
  6. [Searching for a Coordinate](#)
  7. [Searching using Pictures](#)
-

## Search in All

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The **Search in All** box appears at the top of the **New Route To...** screen.

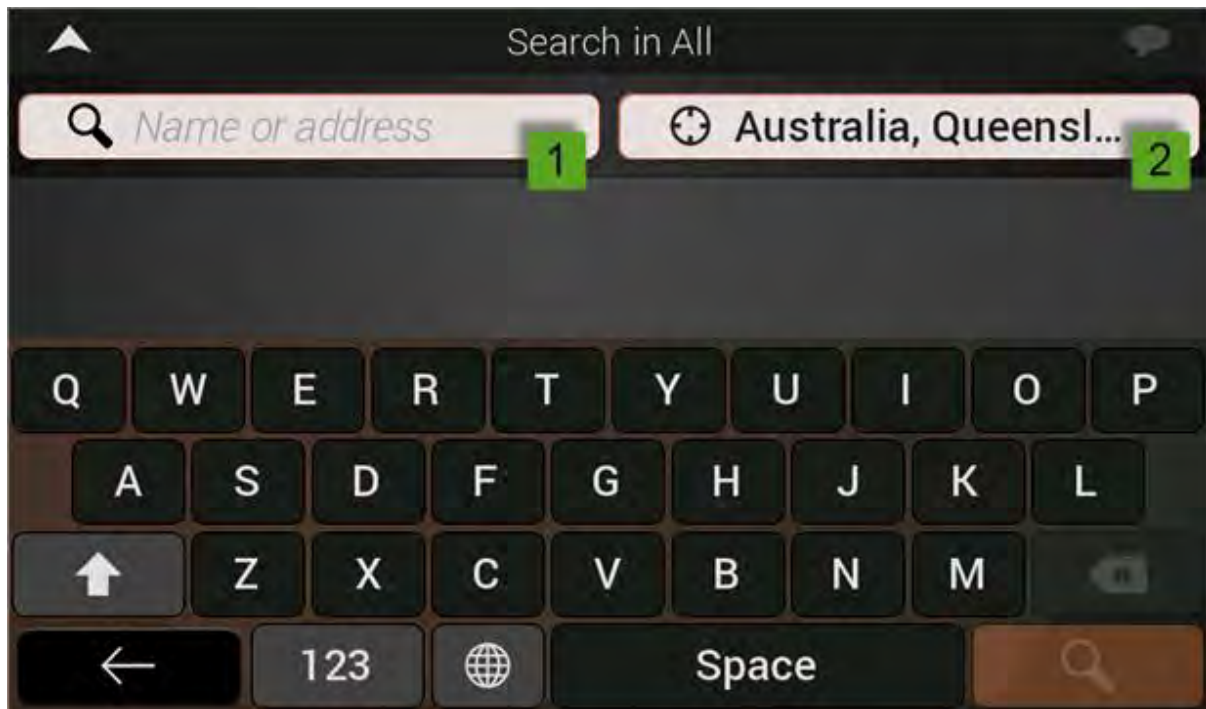


Search in All allows you to perform a free-form search of all the searchable data contained within the **Drive** app.

By default, it searches for places (POIs) around your current location, but you can use it to quickly enter a town, or suburb to find.

Tap in the **Search in All** field to start your search.

When you tap the Search in all field, it splits into two fields.

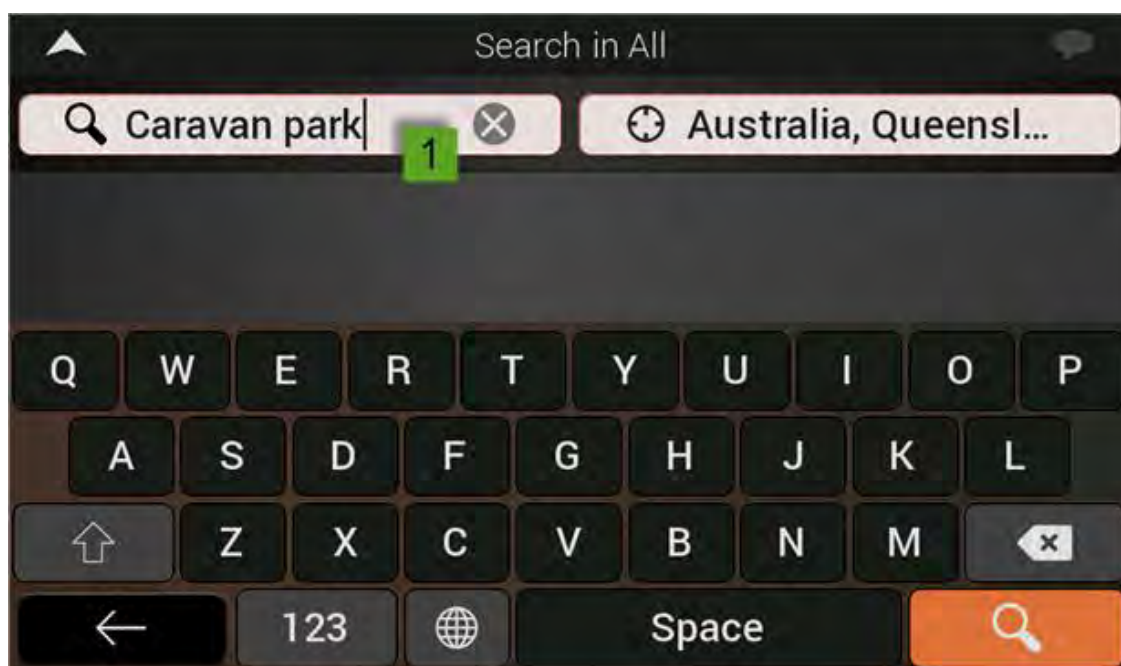


1. **Name or address** - use this to quickly search for places around your current location
2. **Location** - this field defaults to the area surrounding your current location, but you can change this to another location (for example, you might want to search for all caravan parks around Bunbury in Western Australia).

### Using Search in All around the current location

The simplest way to use search in all is simply to enter what it is you are looking for in the name or address field.

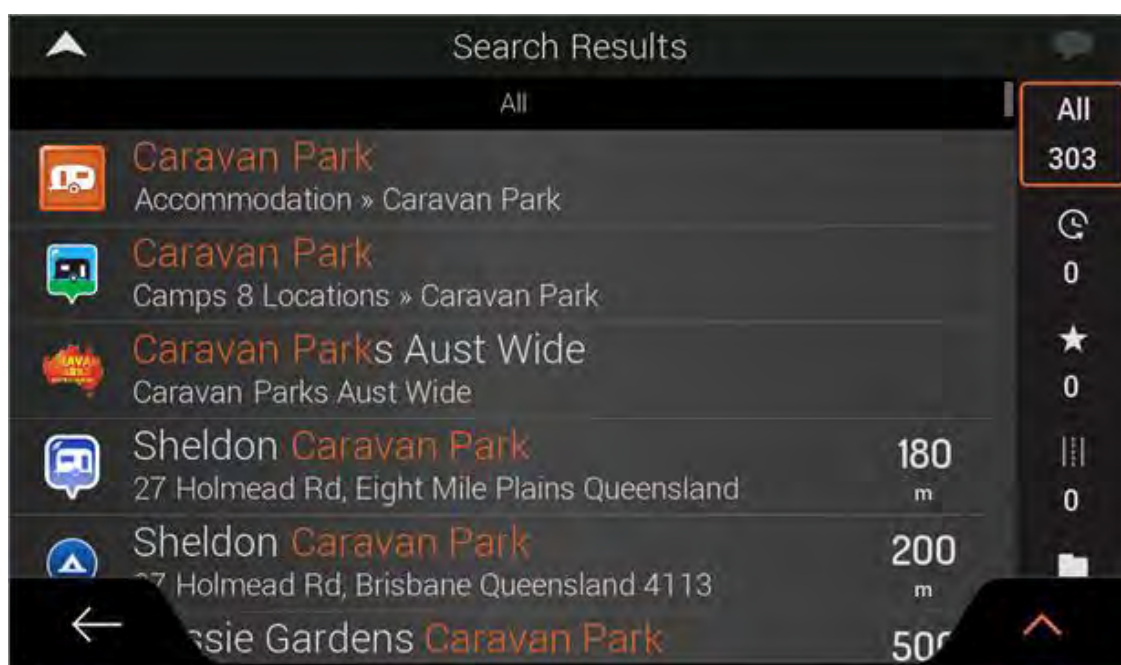
Tap in the **Name or address field**, and enter something to search for, as shown at **1** below.



In this example, we're searching for caravan parks around our current location.



Tap the **Search button** on the keyboard to perform the search. You will see a list of matching items displayed.



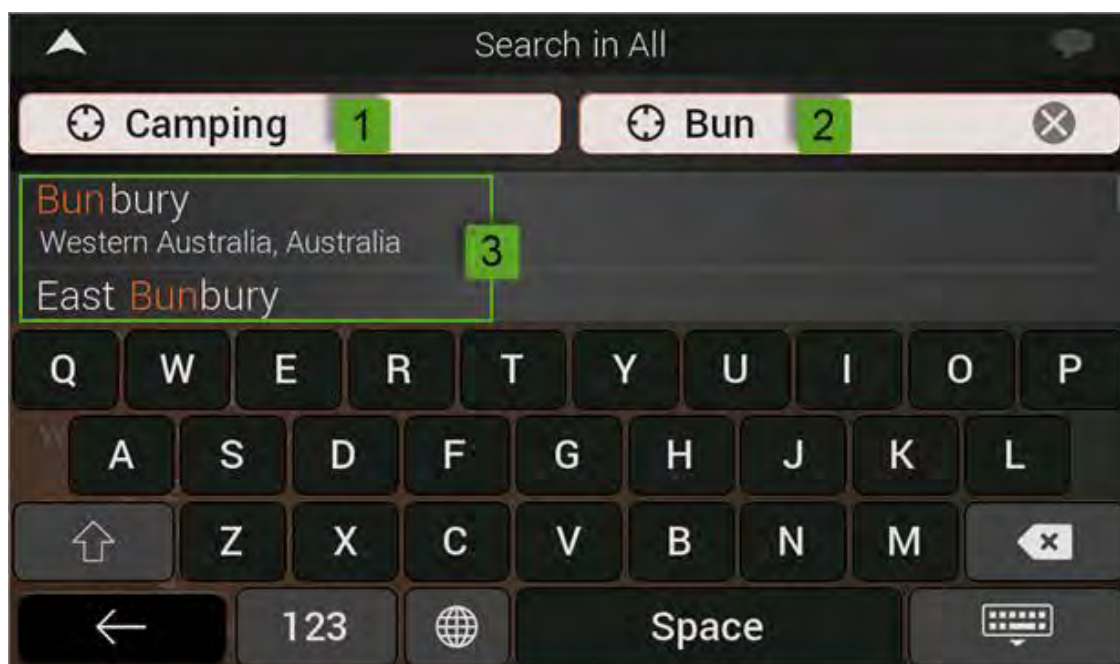
See the [Filtering the List of Search Results](#) section below for details.

## Using Search in All for a location other than the current position

In this example, we will search around Bunbury, WA for camping areas, so we will be changing the **Location field** accordingly.

Simply tap in the Name or Address field (**1** below) and enter what you are looking for.

Then, tap in the search around field, and enter all or part of the name of the place you wish to search around, as shown at **2** below.



As soon as you have typed a few letters you will see that matching entries (**3** above) appear.

You can continue to enter letters to refine the search results, or tap the found entry you want if it is visible.

### Tip!



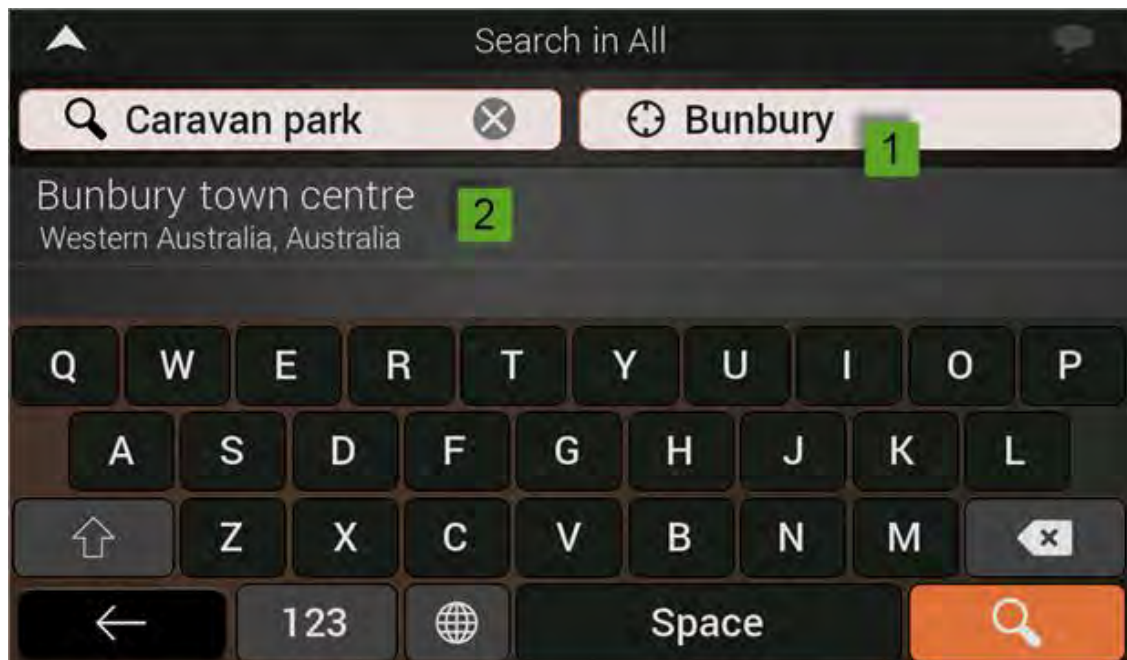
To hide the keyboard so you can see more results, simply tap the **Hide Keyboard** button.

In this case, we have tapped on Bunbury, which appears in the field (as at **1** below). If you tap the secondary entry (Bunbury town centre, shown at **2** below), you can create a route to that destination here. In our example, we will continue using **Search in All** to find places around Bunbury.





Enter *Caravan Park* in the **Name or Address field**, then tap the **Search button**.

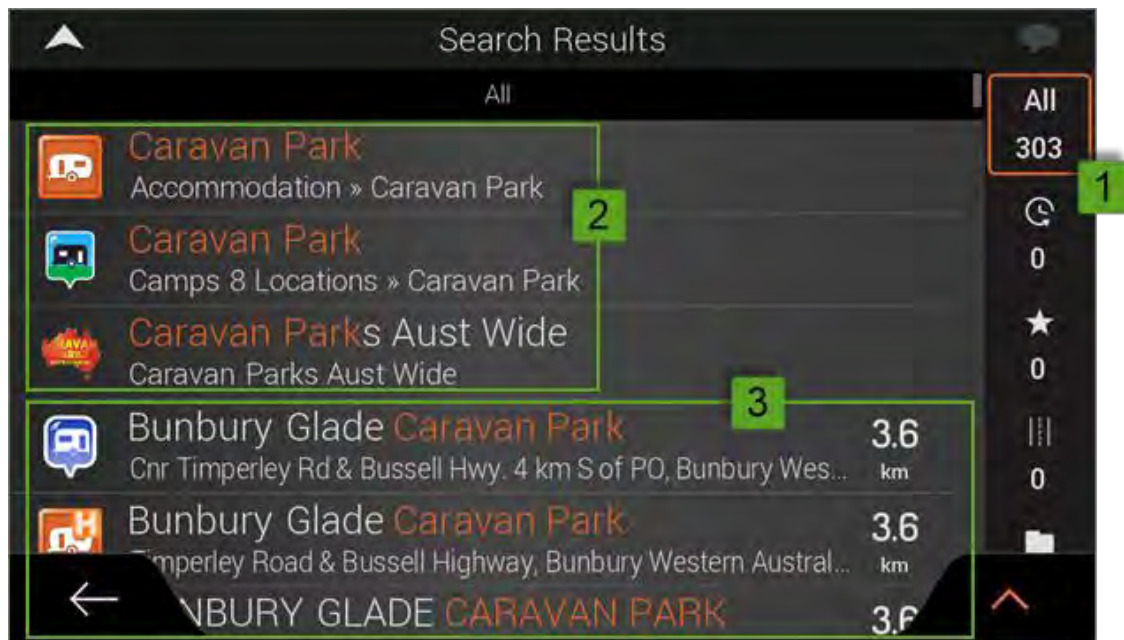


You will see a list of search results (as shown below).



## Filtering the List of Search Results

Regardless of whether the search results are around the current location, or for another location, you can filter and view them in the same way, as shown below.



The side panel (1) shows a number of items. Highlighted at the top is the total number of **All** matching entries (in this example, there are **303 matches**).

This panel can be dragged up and down to show all the possible quick filters.

Major categories matching your search are shown at the top (2).

Individual matching items appear under the categories (3).

### Tip!



By default, the items are displayed in order of proximity to the location you searched for, with those closest at the top.

Tapping the **Menu button** allows you to choose to Sort by Name or Sort by Distance.

You can scroll up and down the list of items, or go back and refine your search to filter more entries.



Tapping one of the filters (at **1** above) will show matches for that type of entry. The types of entry are:

### Recent Destinations



Shows the number of destinations matched which appear in your **recent search history**. Tapping the button filters all search results to show just this category.

### Saved Locations



Shows the number of destinations matched which appear in your own **Saved Locations**. Tapping the button filters all search results to show just this category.

### Matching Addresses



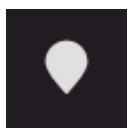
Shows the number of destinations matched which match the entered address. Tapping the button filters all search results to show just this category.

### Places Categories



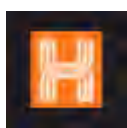
Shows the number of destinations matched which are in major Place Categories. Tapping the button filters all search results to show just this category.

### Matching Places



Shows the number of destinations matched as individual items. Tapping the button filters all search results to show just this category.

### Hema POIs



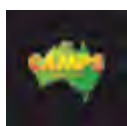
Tapping the button filters all search results to show only those POIs provided by **Hema**.

### HERE POIs



Tapping the button filters all search results to show only those POIs provided by **HERE Maps**.

### Camps & Caravan Parks Australia Wide POIs



Tapping the button filters all search results to show only those POIs provided by **Camps & Caravan Parks Australia Wide**.

Once you have searched for and found the place you want, add it as a waypoint along a multipoint route, or as a final destination to your route.

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## Searching for an Address

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Searching for an address is probably one of the most common types of searches you will perform within the **Drive** app.



When you go to create a route, tap the **Address button** on the **New Route To...** screen.

The **Find Address screen** will appear.



### For Your Information...

The Country field will always contain the Country and State where you are currently located.

Therefore, if you are in Western Australia, and you wish to search for a location in Queensland, you will need to tap the Country field to select Queensland before typing your address.

## Entering a Town, Suburb or Postcode to search for

Tap the **Town/Suburb or Postcode field**, which will bring up the Select Town/Suburb or Postcode screen.



Enter something to search for. Valid types of entries would be:

- a part of the name of the town or suburb, ie. "farm", "per", "ag", "new"
- a postcode, ie. "4113"

You will see a screen showing matches based on what you have typed, as shown below. The text you entered will be highlighted.

If you do not find what you are looking for, refine the search term you used.



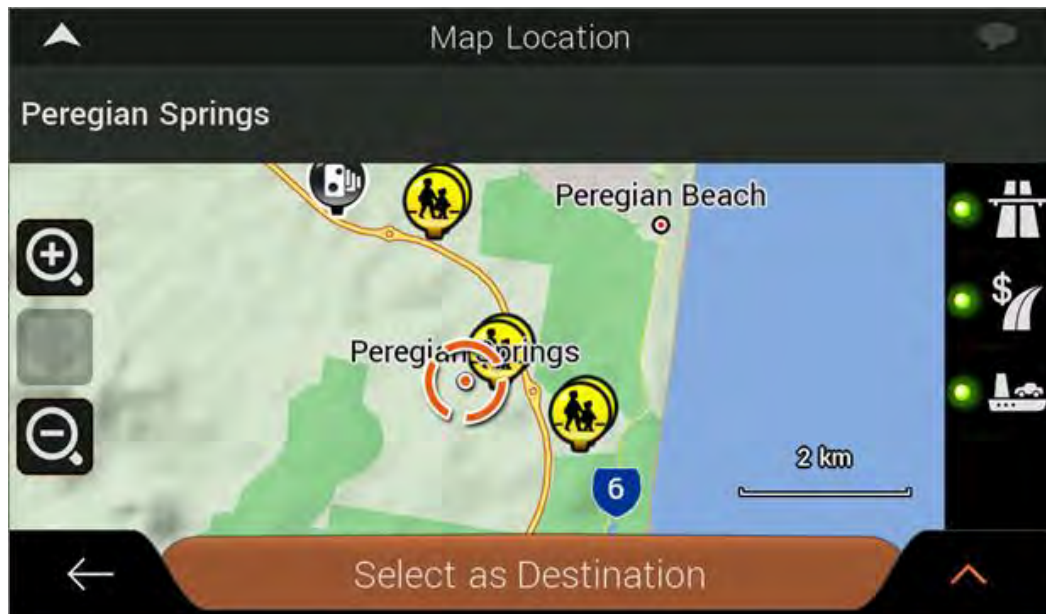
Tap the required entry from the results list to select it. In this example we are tapping on the entry shown at **1** above.

The selected item will then appear in the Find Address screen, as shown at **1** below.



### Setting a Town or Suburb as the Destination

If you just wish to go to the selected Town / Suburb, or you do not have a specific street there which you want to navigate to, simply tap the **Go to Town/Suburb button**. In this case, **Drive** will show a preview of the selected location, shown below.



#### Tip!



The selected location is identified by an animated icon

You can quickly change the **Route Preferences** for this route using the buttons along the right-hand edge of the screen. In this example, all options are switched on (indicated by the green light on each):

- Motorways
- Toll Roads
- Ferries

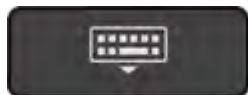
Tapping the button will switch off that option.

Tap the **Select as Destination button** to choose that Suburb / Town as the destination for your route.

### For Your Information...

#### Town History

When searching for a town or suburb, a separate history is maintained of towns and suburbs which you have previously searched for.



Hide the on-screen keyboard, and you will see the **Town History panel**, showing past history.

If you scroll down further, you will also see a list of **Suggestions**, based on your current location.

---

### Setting a Specific Street as the Destination

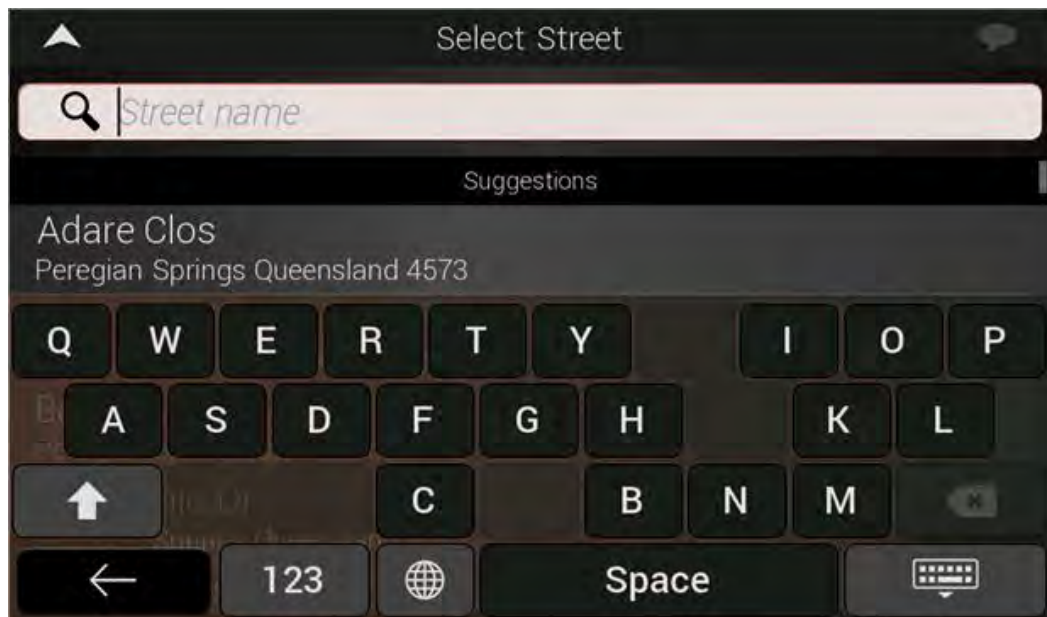
Once you have chosen the suburb or town you want to travel to, you can search for a specific street.



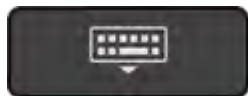
Tap the **Street field** (1 above) to start searching for a street in the Town / Suburb which you selected in the previous step. The **Select Street screen** will appear. The on-screen keyboard will be active, but some keys will be inactive.



As you have already picked the Town / Suburb, when you go to search for the street, the **On-Screen Keyboard** automatically restricts itself to those letters which appear in streets for that Town / Suburb.



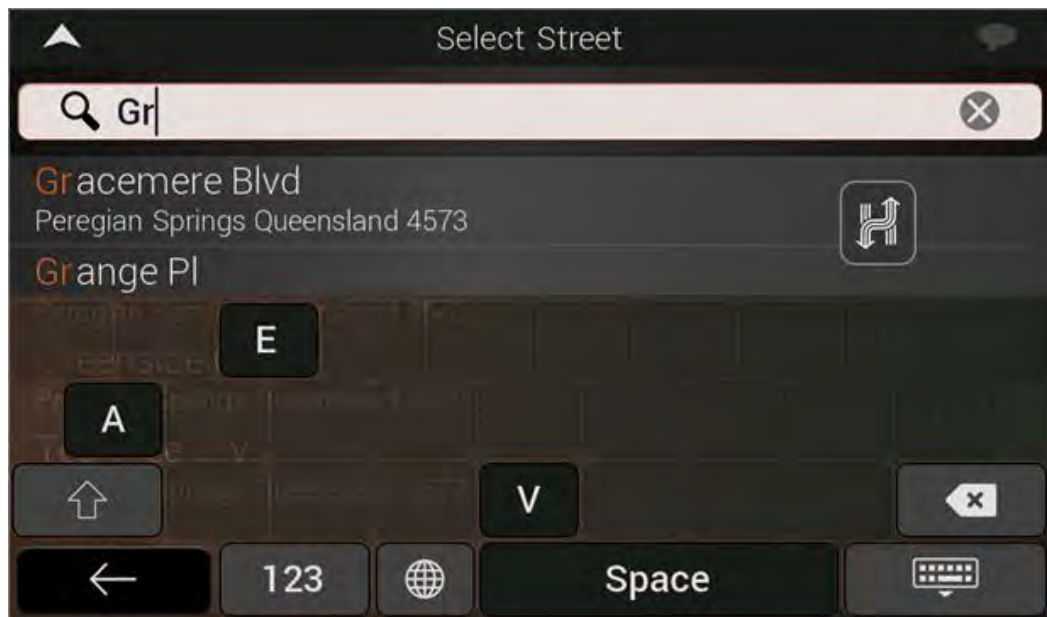
#### For Your Information...



Hide the on-screen keyboard, and you will see the list of **Suggestions**, based on the current selection.



Once you type a few letters, the keyboard will further restrict your key options, as shown below.



Tap the required item from the results list.

The street you selected will now be added to the **Find Address screen**, as shown at 1 below.



If you simply want to be taken to the street you have selected, tap the **Go to Street button**.

If you choose a street only, **Drive** will take you to the nominal centre of the street.

### Setting a Specific Street Address as the Destination

Tap the **Street number or crossing street field** to enter the actual number on the street you wish to go to. This will open the **Select Street Number screen**.

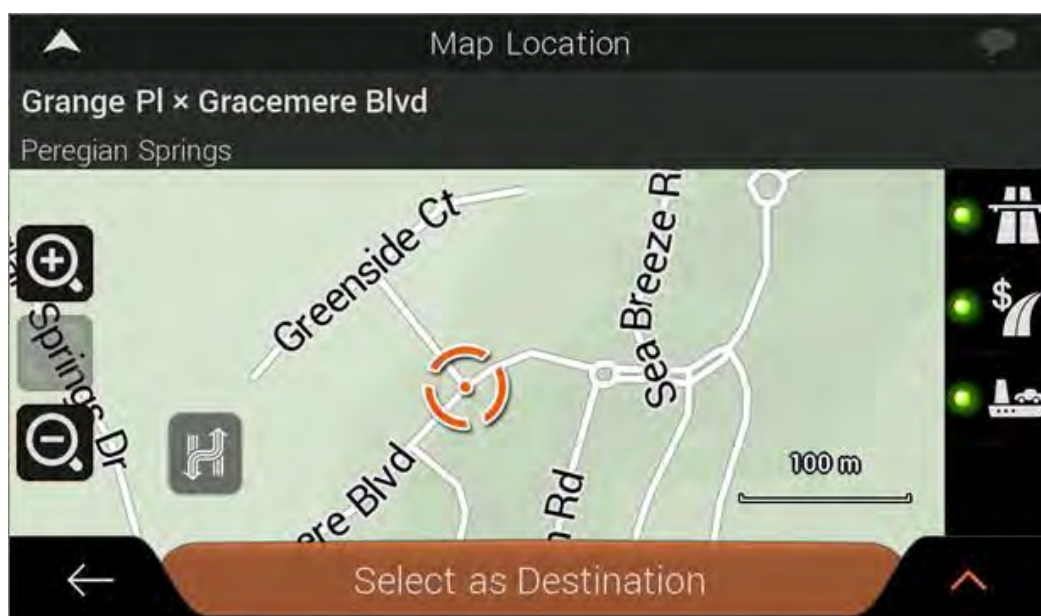


On the **Select Street Number screen**, you can enter either:

- a number (the **On-Screen Keyboard** limits the visible keys to numbers which actually exist in the data for the selected street).
- the name of another street which crosses the selected street (this will navigate you to the intersection of the two streets).

Tap the numeric keys on the **On-Screen Keyboard**, or tap one of the listed streets (the listed streets are those which cross the street selected earlier).

Once you have chosen either of these options, you will see a preview of the location on the Map Location screen.

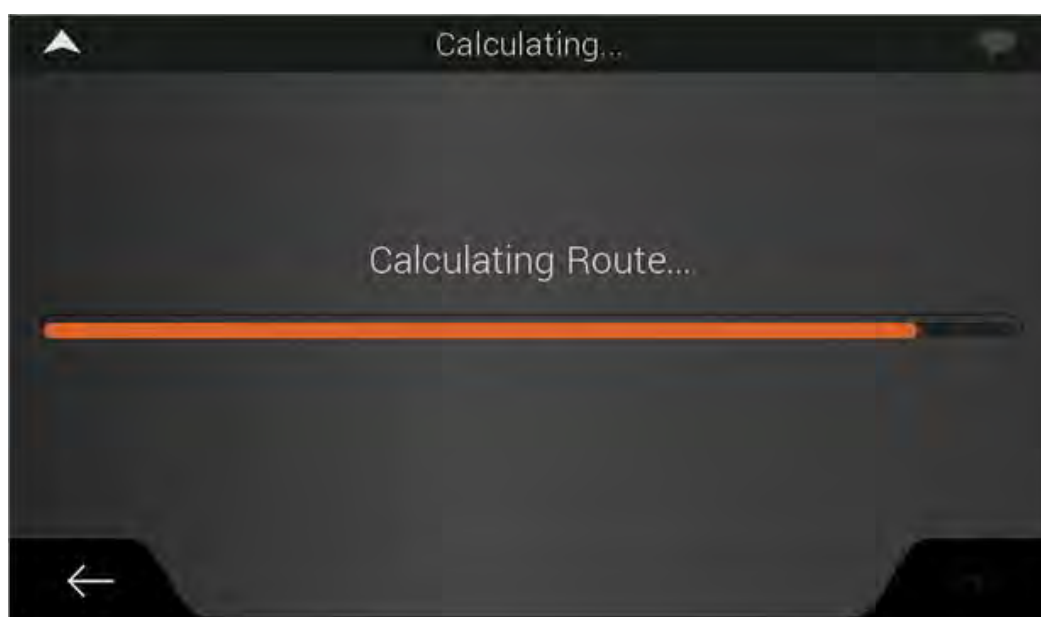


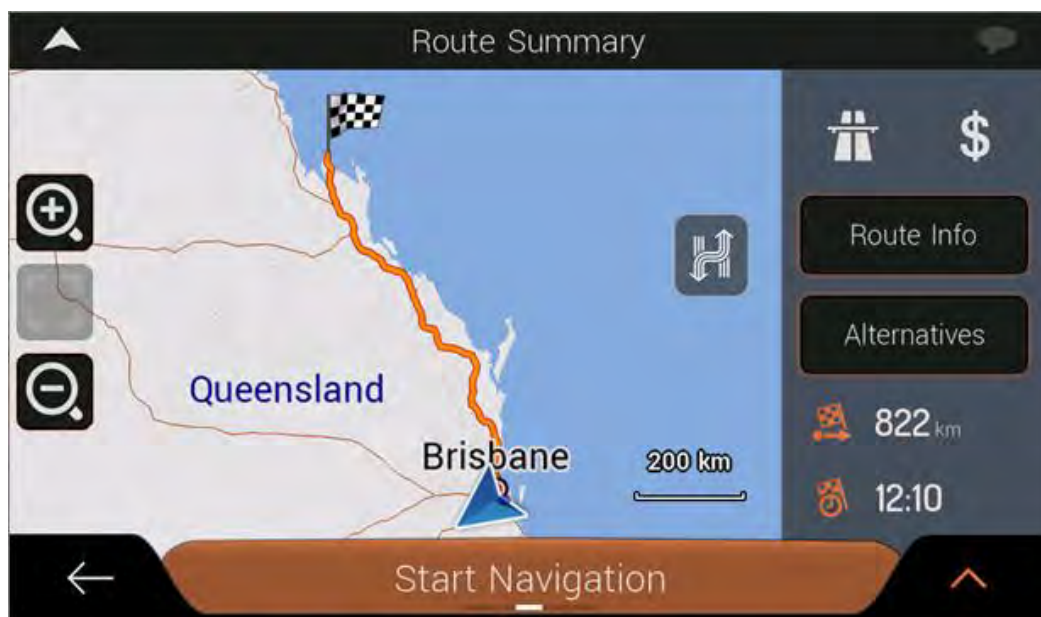
**Tip!**



The selected location is identified by an animated icon

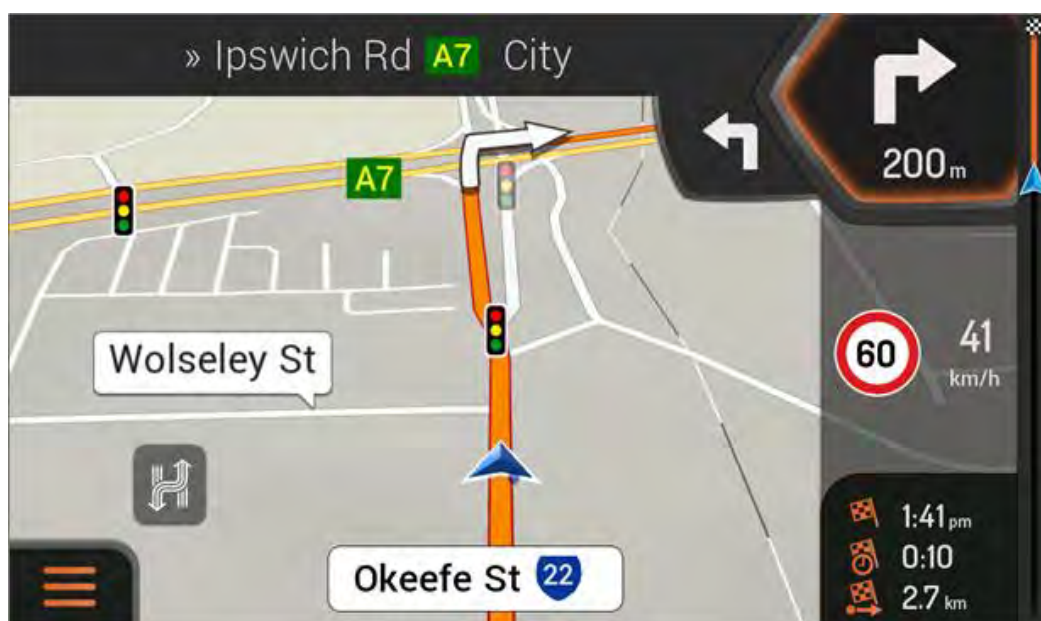
If you are satisfied with the location displayed, tap the **Select as Destination button**. Drive will calculate the route, then display the **Route Summary screen**.





Tap the **Start Navigation button** or wait for the 10 second count down to start navigating along the selected route.

The screen will change to navigation view, as shown below.



## Searching for a POI

A Point Of Interest (POI) is a marker for a single location. Much like a waypoint, but created by the developer of the app or device.

POIs define locations such as

- petrol stations
- caravan parks
- camp grounds
- banks
- shops

to name a few.

There are many POIs accessible in **Drive Mode**, which are grouped together by *providers* and in *categories*.

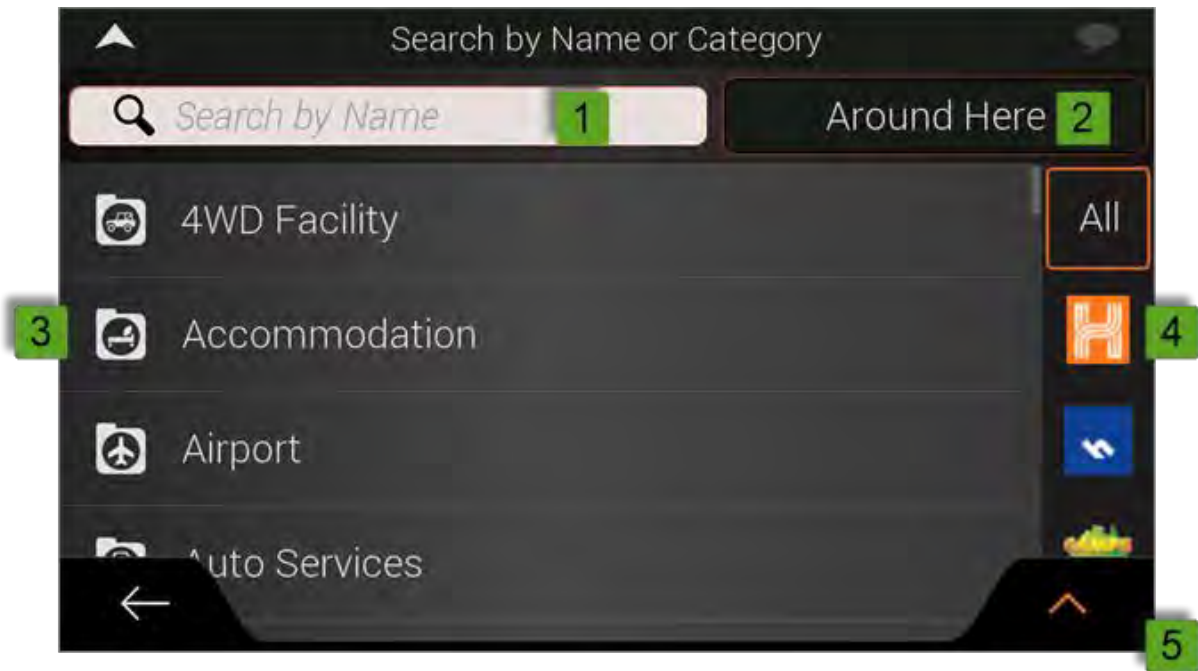
A **provider** is a company which has gathered the data related to the POI, and assembled a package of POIs to make available in an app like **Drive**.

A **category** is a way of classifying and grouping together related POIs, which makes searching easier.



You search for POIs using the **Places button** when you start the process of creating a **Simple** or **Multipoint** route.

Tapping places to search for your destination(s) displays the following screen.



### 1. Search Entry field

Enter text using the **on-screen keyboard** to find matching POIs.

### 2. Search Centre Selector

Tap this button to choose from the following options

#### Around Here

**This is the default setting**

This option means "search around your current location."

#### Along Route

**Only available when you are navigating to a destination**

This option will search along the active route you are currently taking to your destination.

#### Around Destination

**Only available when you are navigating to a destination**

This option will search around the destination of the active route you are currently taking.



### In a Town

This option allows you to choose a town (using the same technique as used in [searching for an address](#)). The POI search will then centre on this town.

### 3. POI categories

You can search just in specific categories of POIs if you wish.

### 4. Provider categories

You can search all POIs supplied by a given provider if you prefer.

### 5. Menu button

The Menu button allows you to choose how POIs are sorted, as follows

#### Sort by Name

Sorts the displayed POIs by their name

#### Sort by Distance

**This is the default setting**

This option sorts the POIs by distance from your current location, or from the centre of the town you searched with.

#### Sort by Detour

**Only available when you are navigating to a destination, and have an active detour**

Sort POIs according to the detour you may have active while routing

#### Show All on Map

Displays icons for all matching POIs on the map. The icons which appear will be for those POIs which match the categories and providers you have selected.

## Saved Locations

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**Saved Locations** are places you have searched for previously, and might want to keep for future handy reference, without having to search for them again.

Saved Locations might be used to store frequently used places such as:

- Family members
- Friends
- Delivery addresses

Now you may think, "Why do I need to save my brother Dave's address, after all I know where he lives"?

Well, if you are trying to get to Dave's place from an unfamiliar location, do you really want to have to type it in on the search screen every time you want to go there? Wouldn't it be better just to have to go to Saved Locations, and tap "Dave's Place" from the list? I sure find it easier!

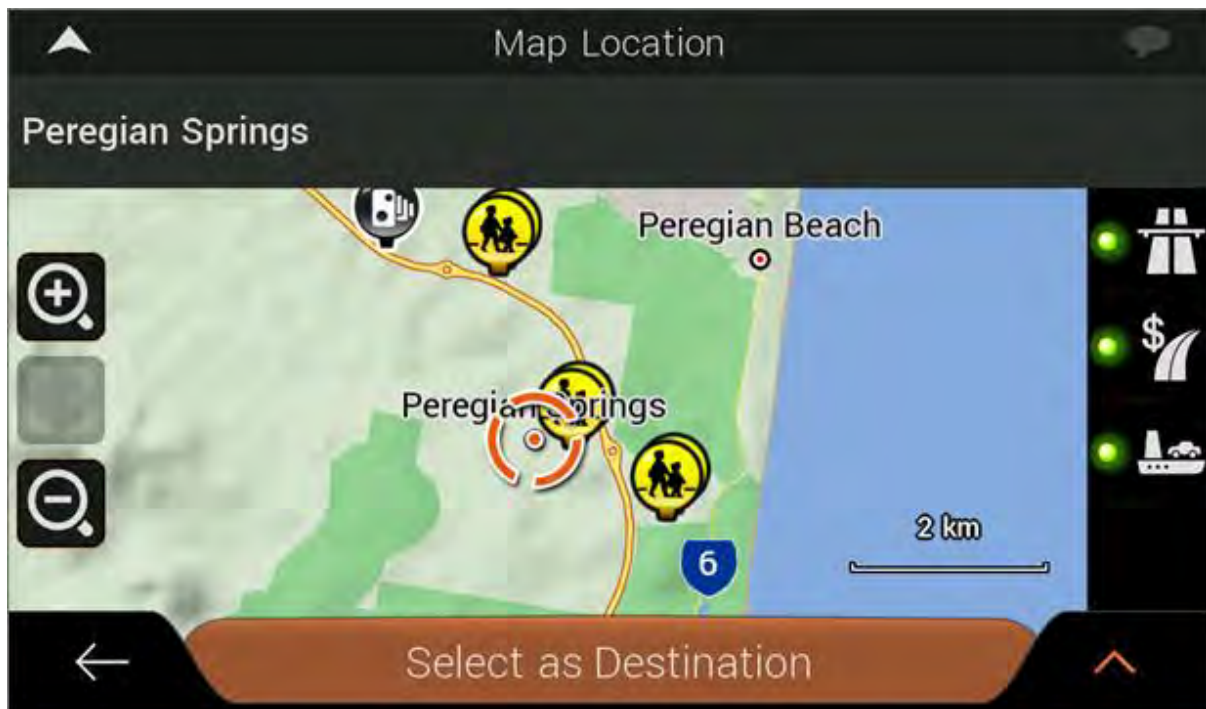
### Saving a Location

Search for and find a location you wish to save using any of the valid search methods detailed in the [Searching section](#) of this eGuide.

1. [Search in All](#)
  2. [Searching for an Address](#)
  3. [Searching for a POI](#)
  4. [Saved Locations](#)
  5. [History](#)
  6. [Searching for a Coordinate](#)
-



When you have searched for and found a particular location, you will see a preview of that location on the Map Location screen.



Tap the **Menu button** at lower-right and choose **Save Location**.

The **Save Location screen** will show a default name for that location. You can enter a completely new name if you prefer.



Once you are satisfied with the name, tap the keyboard **Tick button** to accept the name, and save the location.

### Special Locations

There are two special locations which are part of your Saved Locations. These are:

- Home
- Work

You can set these Saved Locations so that you can always find your way to these places, no matter where you are starting from.

**Tip!**

Even though these two locations are there by default, you do not have to set them if you do not want to, and you can delete them from the list of Saved Locations at any time.

## History

---



You can find the **History option** when you enter the screen to search for a destination while creating a route.

The history feature in **Drive** stores destinations which you have navigated to previously.

### Tip!

Only destinations which you have actually navigated to are stored. ie. finding a location, and then not using it as the destination for a route will NOT result in the item being remembered by the History function.

## Smart Destinations

When you first enter the search screen to find a destination to route to, you might notice that there are TWO destinations which are directly under the Search in All field at the top of the screen.

These are the latest entries in your history, but are known as smart destinations as they are "location aware".

This means that the two items which appear will relate to your current location.

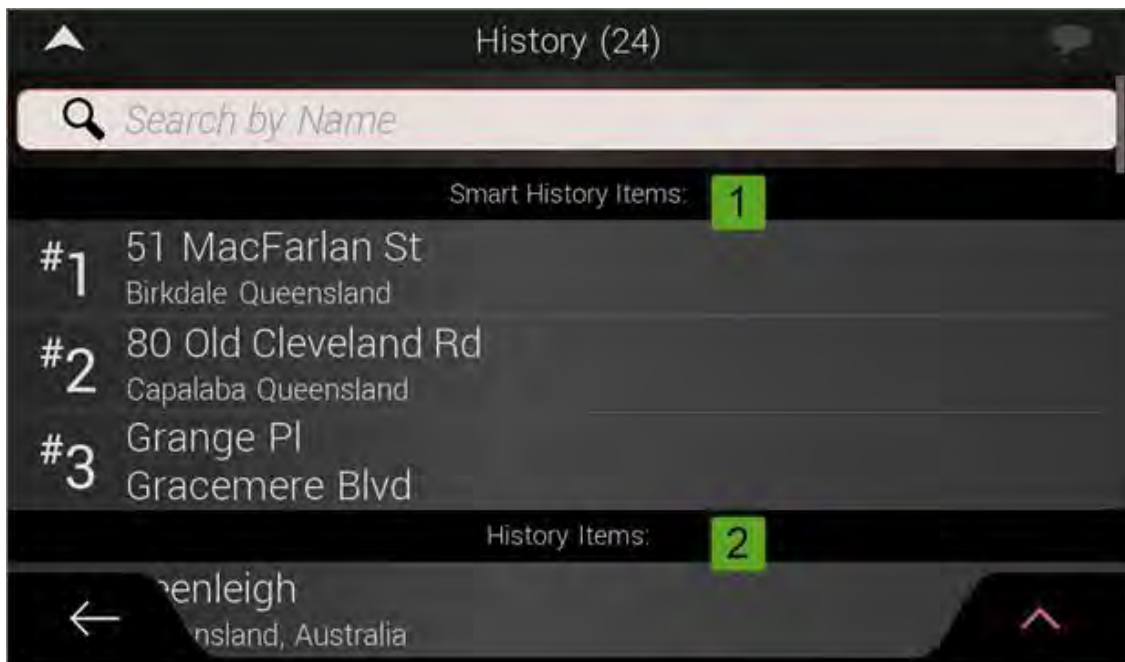
Say you travel between Cairns and Melbourne, and have searched for various addresses while in each location.

While you are in Melbourne the locations shown will be ones previously found within the vicinity of Melbourne.

When you are back in Cairns, the Melbourne items will not appear, but items from the Cairns region from your History items will appear instead.

---

If you scroll down the **New Route to...** page, you will find the History button. Tap it, and you will see the History screen, similar to that shown below.



The screen is split into two sections:

1. Smart History Items
2. History Items

Three Smart History items will appear at the top of the screen, with the rest of them items shown below them.

The History screen will display items based on how old they are. ie. the most recent item navigated to will appear at the top of the list. You cannot change the order here.

### Deleting Search History items



Tapping the **Menu button** will display a single item - **Edit**.

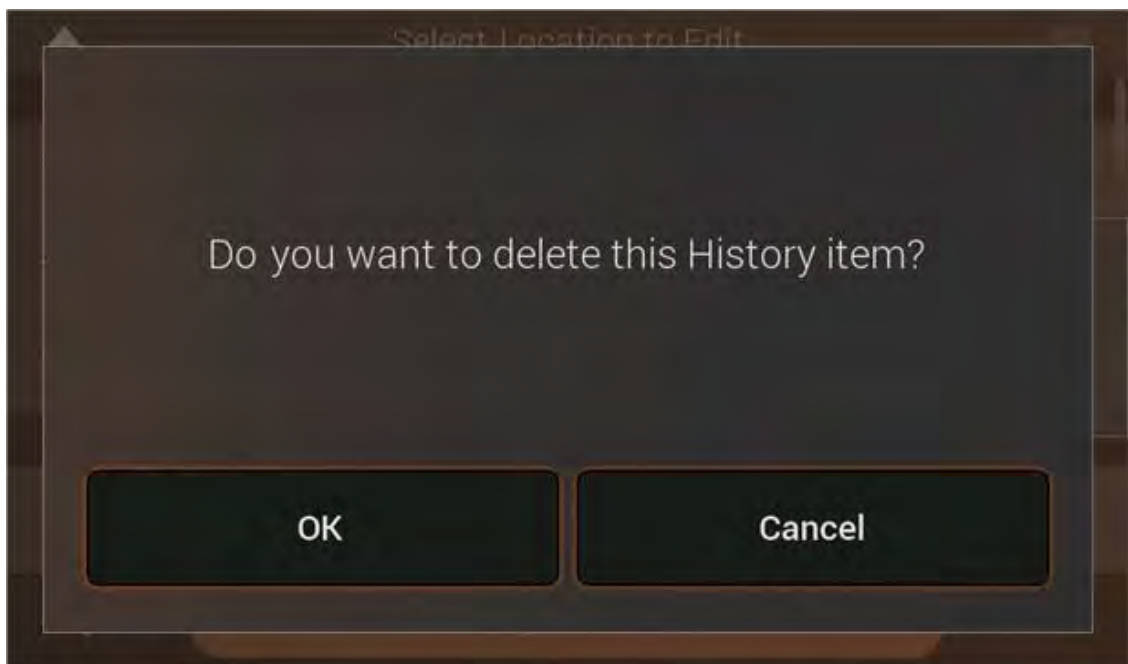
Tapping Edit will display the **Options button** for each item in the list.



Tapping the **Options button** on any History item display a single option - **Delete**.

The Delete option will, as its name suggests, delete the selected entry.

You will be prompted to confirm the Delete operation, as shown below.



Tap the **OK button** to delete the selected History item.

---

## Searching for a Coordinate



You can find the **Coordinates option** when you enter the screen to search for a destination while creating a route.

The coordinate search feature in **Drive** allows you to find any arbitrary location to create as a destination for a route.

## Entering Coordinates in Latitude / Longitude format

When you first tap the Coordinates button from the **New Route To...** screen, you will be shown a screen allowing entry of coordinates in latitude / longitude format.



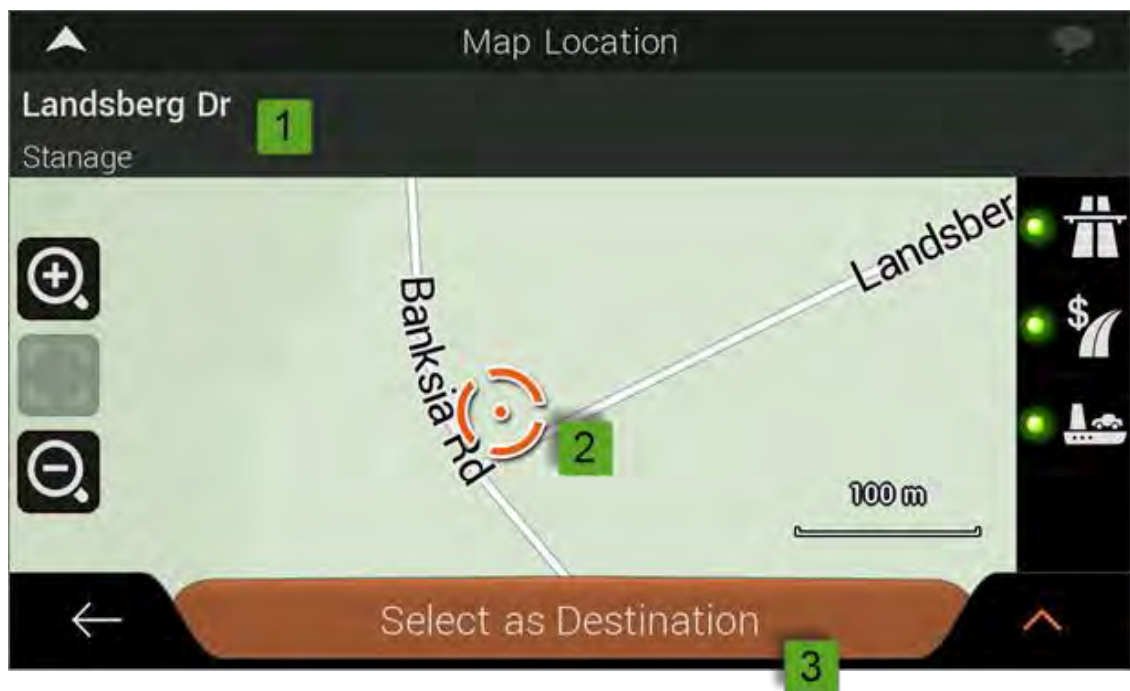
1. Enter the latitude required
2. Change latitude - North or South
3. Tap the **OK button** when done entering
4. Tap to open the menu

Once you tap the OK button, you will see a new screen, where you can enter the longitude required.



1. Enter the longitude required
2. Change longitude - East or West
3. Tap the **Go! button** when done entering. This
4. Tap to open the menu

Once you tap the Go! button, you will be shown a preview of the location, as shown below.



1. The approximate or real address (if known) are shown here
2. A marker showing the location is shown here

3. Tap the **Select as Destination** button to mark this location as your destination

#### For Your Information...

The format that you can enter data into the search field at the top of the screen depends on your current settings, as specified in the [Units & Formats settings](#), under **Coordinate Display Format**.



Tap the **Menu button** at bottom right to change coordinate entry from Latitude / Longitude to UTM Coordinate mode.

You can also jump straight to the Units & Formats settings screen to change the default coordinate format to use within the **Drive** app.





## Entering Coordinates in UTM format

Tap the **UTM Coordinates** item on the Coordinates entry screen to switch to UTM data entry mode. The screen will change as shown below, with fields allowing entry of coordinates in UTM mode.



Tap the **UTM Zone** button to enter the UTM zone required.

Tap the **Easting and Northing fields** to enter their respective values.



Tap the **Clear** button to clear the content prior to entering a new value.

Tap the **OK** button when you are satisfied with your data entry.



Tap the **Menu** button to open a menu allowing you to change entry formats back to Latitude and Longitude.

Once you have entered the data in UTM format the rest of the process is as described above (ie. only the entry format is different).

## Searching using Pictures

### A very quick explanation about image tags

Image files contain data within them called EXIF tags.

EXIF tags store information about and related to the image inside the file itself (much like an MP3 audio file can have data such as the track name, artist name, lyrics, etc. embedded within).

EXIF tags are used in images to record primary and auxiliary data for the image, such as the type of camera it was taken on, the exposure, date the image was captured, etc.

Just like MP3, the EXIF tags are extensible, meaning that different manufacturers can use them, in different ways, to add their own specific fields to contain data, along with the fields defined by the EXIF standard.

More and more digital cameras are on the market which contain a GPS module, and can therefore store location data embedded inside the EXIF tags within the images they capture.

The camera within the **HX-1** Media Manager will capture images with embedded location data.

This can be a useful thing.

You might have a friend who gives you a digital image file showing an awesome fish that he caught while on holiday. The location that the image (and therefore the fish) was captured at could be stored within the file (maybe your friend wouldn't have given you the image if they had realised!).

If you copy the image to the Pictures folder on the **HX-1** internal storage, **Drive** can use the location information embedded within the file to navigate to.

### For Your Information...

Even though more and more camera models, and the massive increase in smart phone and tablet uptake, has meant that many more GPS / Location enabled camera devices are out there, that is no guarantee that the image you are trying to load actually contains coordinates.

If there are no coordinates contained within a certain file, then **Drive** will not be able to navigate to the location where the image was captured.

There is software available (often for free) which can be installed on Windows, MAC and Linux PCs which can show all the EXIF tags contained within a file. Using one of these programs can help identify whether a specific image file contains any location data within its EXIF tags.



You can find the **Picture option** when you enter the screen to search for a destination while creating a route.

The Picture feature in **Drive** allows you to use an image containing location coordinates to navigate to.

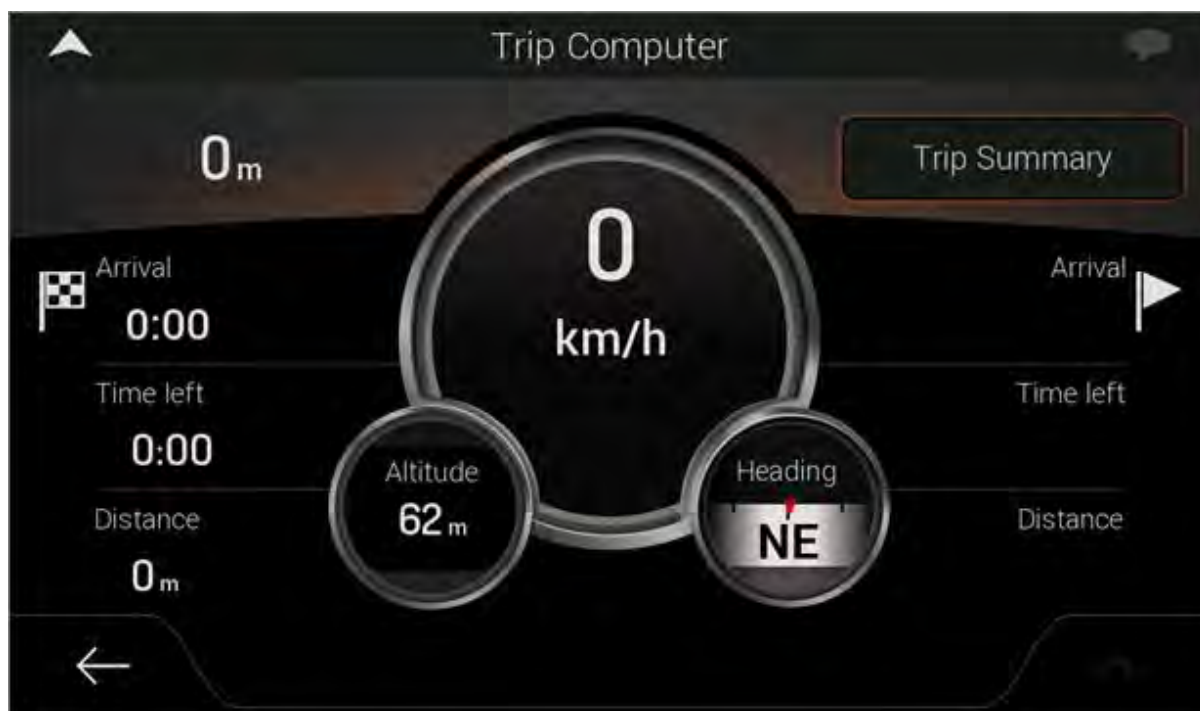
You can sort images containing coordinate tags which show up on the List of Places screen into the following order:

- by Name
- by Distance (from your current location) **This is the default setting**
- by Detour

### Show All on Map

This option shows all waypoints like a slideshow. You can cycle through each image, and the location the image was captured at will be displayed on the map.

## Trip Computer



The Trip Computer screen shows a summary of interesting statistics about your current trip (or route) if you are currently routing to a destination.

Tapping the **Trip Summary** button displays the **Trip Summary** screen, with some more detailed stats related to your trip, as shown below.



# Explore

---

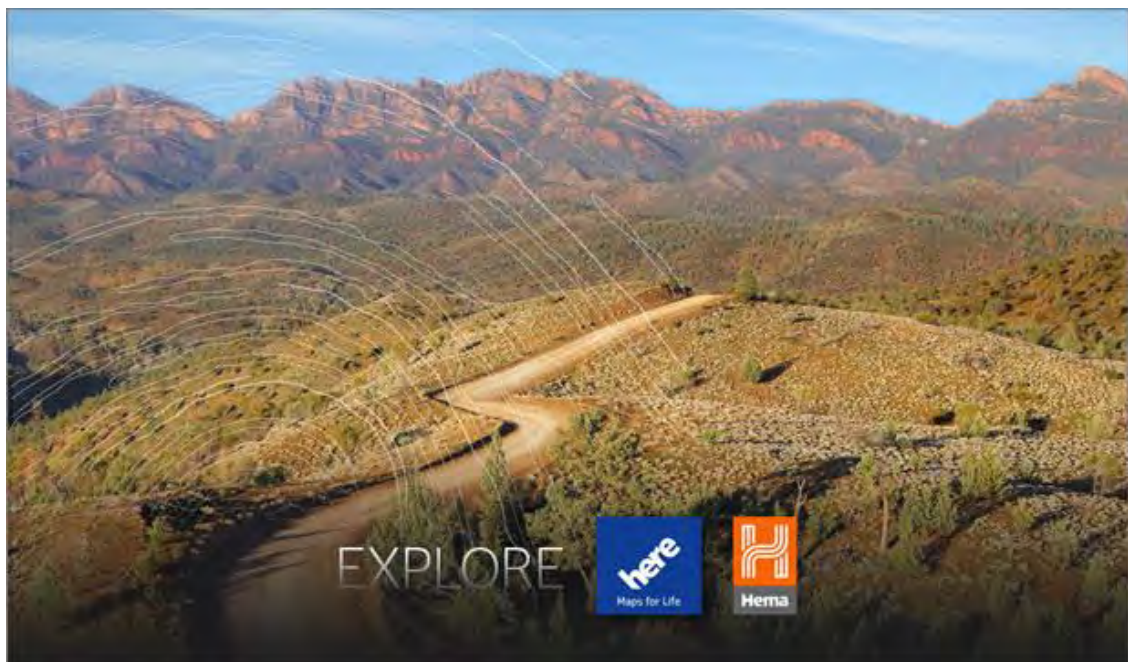
## Explore Mode Introduction

The **Explore Mode** app is designed to allow you to find where you are on a map. The maps are generally designed with 4WD vehicles and touring in mind.

If you have a waypoint visible, you can use the "Go To" function to draw a routing line to get to the waypoint "as the crow flies", or opt to get driving directions in the **Drive Mode** application externally to the **Explore Mode** app.

The app is designed so you can see exactly where you are at any given time, and how you got to where you are currently located.

When the app is first started, it will display a splash screen briefly, as shown below.

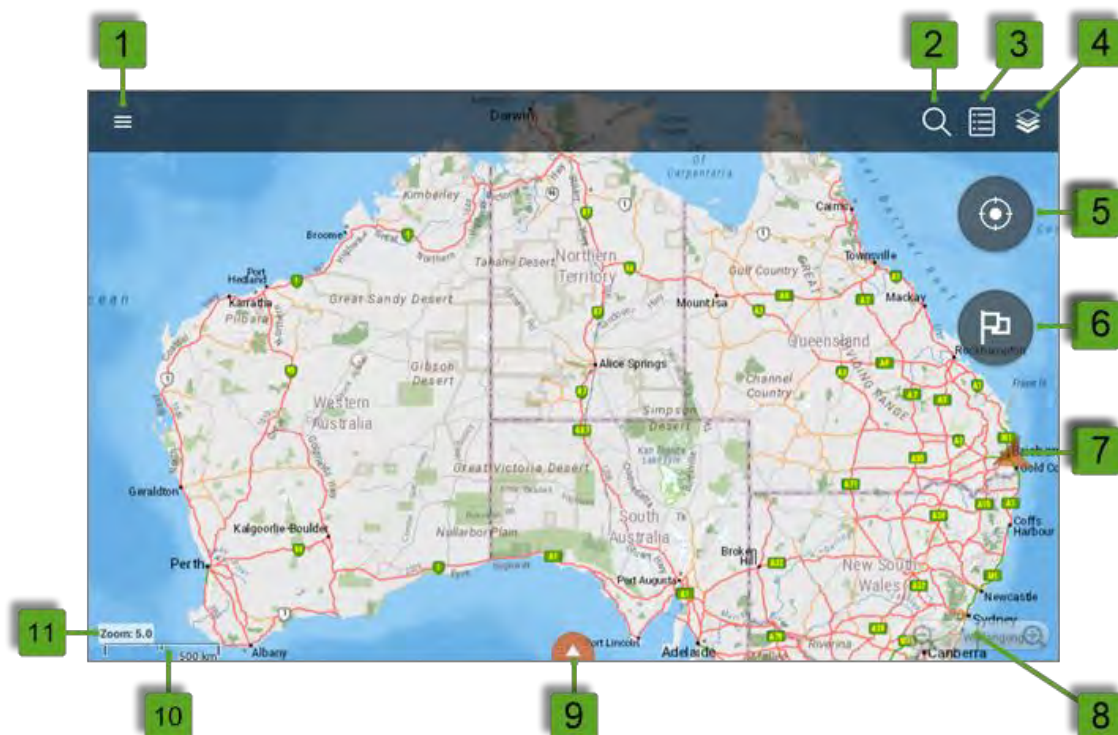




## Getting to know the screen layout

The screen of the **Explore Mode** app is shown below. The image shows the basic layout of the app.

The layout consists of a map panel (covering the majority of the screen), with slide out panels at the left and bottom of the screen.



There are a number of controls located on the app titlebar along the top of the screen, and overlaid on the map panel itself.

Access to some functions are via these buttons, while others are accessible from the slide out panels.

The functions of the controls within the app are summarised here, and discussed in detail in the various chapters within this eGuide.

### 1. Side panel handle



Opens the Side panel on the left-hand side of the screen. Tapping again closes the Side panel.

See the [Side panel section](#) of this eGuide for full details.

## 2. Search button



Allows you to search for Gazetteer items, POIs and Waypoints. Type your query into the field. As you type, matching items are displayed.

See the [Searching section](#) for details.

## 3. Legend button



Opens the [Legends panel](#), allowing display of the various map legends

## 4. Layers button



Opens the [Layers panel](#), which allows you to customise display of Map and Weather layers.

## 5. GPS Lock button

Tapping the GPS Lock button cycles between three states.

### A. GPS Unlocked



- Indicator is grey with white icon
- GPS location is unlocked
- The indicator does not track your position as you move
- Tap to cycle to GPS position lock mode

## B. GPS Locked



- Indicator is orange with white icon
- GPS location is locked
- Map is centered on your location
- Position indicator stays centered on the map as you move
- Dragging the map will reset the indicator back to unlocked state
- Tap to cycle to GPS course-up mode

## C. Course-Up mode



- Indicator is orange with white icon
- GPS location is locked
- Map is centered on your location
- Position indicator stays centered on the map as you move
- Map rotates in the direction of travel (course-up mode). This only happens while actually moving.
- Dragging the map will reset the indicator back to unlocked state
- Tap to cycle back to GPS unlocked mode

## 6. Waypoints button



Opens the Waypoint panel, allowing you to create waypoints and routes.



## 7. Current Position Indicator



Shows the location of the **HX-1** (and therefore your vehicle if your **HX-1** is contained within!) as calculated by the available GPS satellite timing signals.

## 8. Zoom in / Out buttons



The Zoom In & Out buttons are located at the bottom-right of the map panel. This pair of buttons allows you to zoom into or out of the map. This works in addition to the pinch and squeeze action on the touch screen.

## 9. Bottom Panel handle



The **Bottom Panel handle** is located mid way along the bottom of the map panel. Tap to open the **Data panel** at the bottom of the screen. Tapping again closes the **Data panel**. Tap-and-hold on a data field to set the value required for that field. For more information, see the **Data panel section** of this eGuide.

## 10. Scale ruler



The **Scale Ruler indicator** is located in the lower-left corner of the map panel. It shows the approximate scale of the map at the current zoom level

## 11.Zoom Level indicator

Zoom: 21.0

The **Zoom Level indicator** is located in the lower-left corner of the map panel. It shows the current map zoom level. Zoom display can be switched off in Settings

Rotating the device will switch the app to portrait mode, while all buttons etc. remain in the same relative location on screen.

### Remember!



The Nav button appears on the Home screen in its fixed location, and on other screens in whichever position you choose to place it,

A SHORT TAP on the Nav button will return you to the previous screen at any time.

A LONG TAP on the Nav button will pop up the Nav pane, where you can access **Navigator** device settings, etc.

The button can be dragged to any position on the screen of your choosing, and will remember its location on that screen.

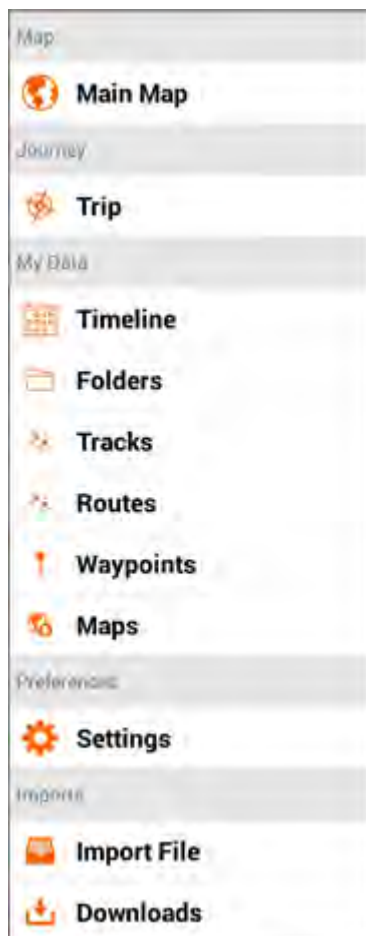
Note that in some of the screenshots seen in this eGuide, the back button has been removed from the image for the sake of clarity.

## The Sidebar

The sidebar is where you will find much of the functionality of the Explorer mode app.

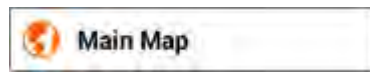


You can swipe in from the left side of the screen, or tap the sidebar button on the top toolbar to open it.



The sidebar is split into sections as follows

## Map



The **Main Map button** returns you to the app's main map view at any time. More information is contained in the [Main Map section](#) of this eGuide.

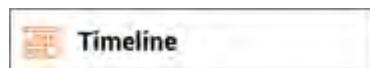
## Journey



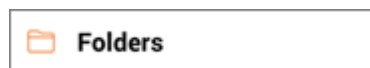
The **Trip panel** is where you can start and stop recordings of where you are travelling. Full details of this function can be found in the [Trip panel section](#) of this eGuide.

## My Data

The **My Data section** of the side panel contains sub-panels allowing you to view and manage the data you accumulate during the use of the **Explore** app. Each sub-category of your data is explained in it's own section of the eGuide below.



See the [Timeline Panel section](#) of this eGuide for details.



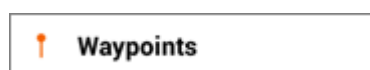
See the [Folders Panel section](#) of this eGuide for details.



See the [Tracks Panel section](#) of this eGuide for details.



See the [Routes Panel section](#) of this eGuide for details.



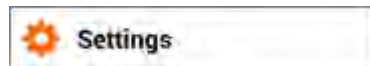
See the [Waypoints Panel section](#) of this eGuide for details.



See the [Maps Panel section](#) of this eGuide for details.

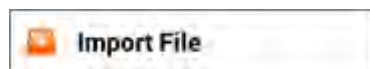
## Preferences

There is only one option under the Preferences section of the eGuide. Settings allows you to configure the **Explore** app to suit your usage requirements.

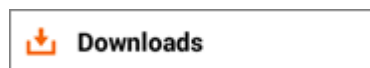


See the [Settings Panel section](#) of this eGuide for details.

## Imports



See the [Import File section](#) of this eGuide for details.



See the [Downloads section](#) of this eGuide for details.

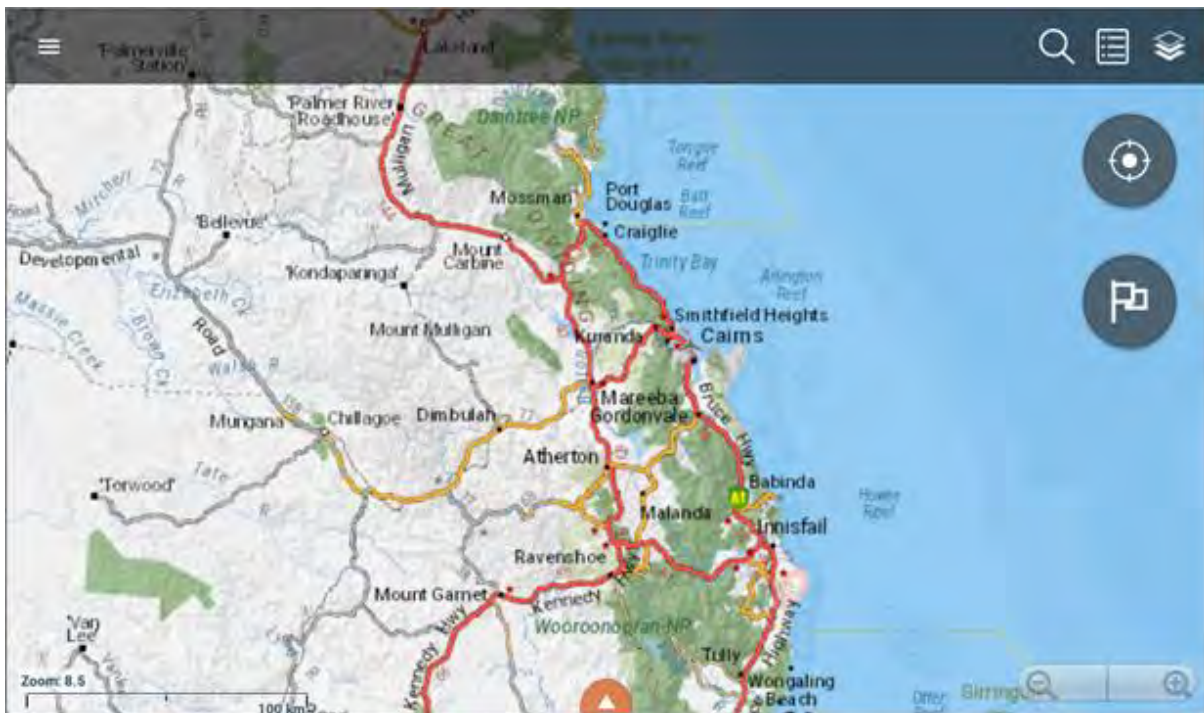
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## User Interface

This section of the eGuide shows the basic features of the user interface of the *Hema Explorer* app.

### Screen Layout

The major feature of the app user interface is the *moving map* panel. Located around and on the map panel are various buttons and controls which allow access to the various features contained within the app.



Details of the controls on the main screen are contained in the **Explore** introductory section of this eGuide.

### Moving around the map

The following gestures work when applied to the map panel.



**Single finger drag** - Drags the map in any direction



**Unpinch** - Zooms into the map



**Pinch** - Zooms out of the map



**Double-Tap** - Zooms into the map one zoom level at a time

# About Map Layers

## Introduction

Within the **Explore Mode** app, there are several map layers available.

These map layers come from a number of sources.

Some of the layers are created and maintained by Hema.

Others are provided by 3rd parties, such as HERE maps, or various Australian state government mapping bodies.

Currently, the map layers within the app are built using a technology called *raster maps*.

Raster maps are essentially an image of the map area, which contain information which allows the app to know the area that the map covers.

Because the app knows where you are located, and knows the bounds of the currently active map layer, it can plot your position on the map.

## Offline versus online map layers

**Explore** provides access to both offline and online maps.

### Offline Maps

Offline maps are where the map source content is stored locally on the device. It means that the maps can be viewed even if there is no network connection present. The offline content must still be downloaded to the device so the app can access it while offline.

The Hema Explorer map layer for each state (NSW, VIC and TAS are grouped together) in Australia are included out of the box on the **HX-1** up to zoom level 12 (approximate scale 1:150,000).

### Online Maps

Online maps are map sources where the content is stored on a server and must be streamed (dynamically downloaded) to the device for the app to display it. For this to happen, an internet connection must be available via which you can access the server.

Generally, any app which uses online maps provides a mechanism by which either entire map sources, or segments of a given map source can



be selected and downloaded to the local storage, so that the online map sources becomes available for offline use.

Often, complete raster map sources are NOT available offline due to the large size of the data, particularly at higher zoom levels.

The range of map layers available in **Explore** can be managed from the **More Maps panel** within the app.

**Explore** contains the *Hema Explorer* map layer for the entire Australian continent straight from the box. The pre-installed files contain this map layer to a maximum zoom level of 12 (which equates to a scale of around 1:150,000).

As mentioned previously, raster map files can be large, depending on the scale, and while the *Hema Explorer* map source actually provides a maximum zoom level of 16 (around 1:9,000 scale) it is not possible for the files to be pre-installed at this zoom level due to their extremely large size.

What this means, is that, if you venture out of range of internet coverage, and you want to have a high zoom level map available for an area you are visiting, you need to download the selected area for use while offline *BEFORE* you leave home.

See [this section](#) of this eGuide for details.

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## Layers panel

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The **Layers panel** is accessed by tapping the **Layers button** on the app titlebar.

The Layers panel is the main control centre for configuring which map layers are visible within the app, and where you can download map sections for offline use.

### Note!

What you see in the Layers panel may be different to what you see in the example image below. What you see will depend upon which map sources are switched on, available or visible on your device.



In the Layers panel, map sources can be in **THREE** places:

1. In the **Visible Maps** section at the top of the Layers panel
2. In the **Available Maps** section of the Layers panel (which is right underneath the Visible Maps section)
3. Tucked away under the **More Maps button** in the Manage Maps section of the Layers panel.

Think of these 3 locations in terms of paper maps:

1. **Visible Map Layers**

Visible map layers are sitting on your knee while you read them. You **MIGHT** have one or two maps on your knee at a time, and shuffle between them. Whichever one is on top is the one you are currently looking at or using.

2. **Available Map Layers**

Available map layers are the bunch of maps which are squeezed down beside the seat, or piled on the dashboard, where you might get to them easily and

move them to your knee to look at (like moving from the AVAILABLE to the ACTIVE section of the Layers panel).

### 3. Hidden Map Layers

The map layers under the **More Maps button** are like the ones tucked away in your glove-box. You might need them at some point, but you don't want them out squeezed next to the seat or on the dash with the other maps, or on your knee cluttering things up.

The Layers panel displays the different layers which make up the map display area of the **Explore** app, and provides access to functions which allow you to manage layers and download map layer sections.

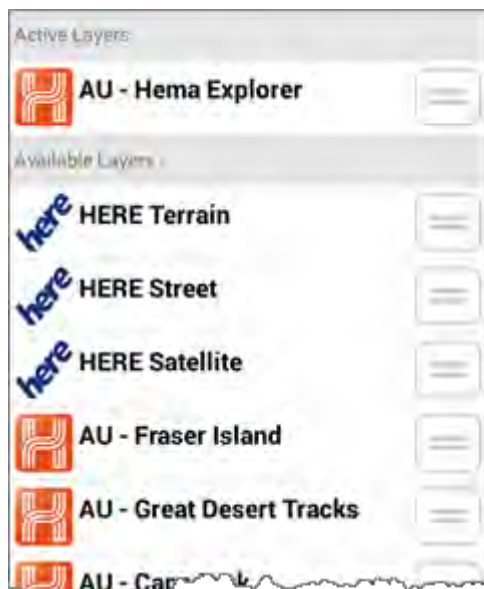
The layers panel is split into different sub-panels, grouping together layers and functions.

Each sub-panel is detailed in the following sections.

#### Visible Maps panel



The Visible Maps panel can be found by tapping the **Layers button** on the app titlebar.



The Active Layers panel contains map layers which are displayed in the main map display within the app.

The uppermost map layer is the one which displays, but it depends on the map layer's extent. ie if you have a map of Tasmania at the top, and a map of the

whole of Australia second from the top, Tasmania will be displayed on top of the Australian layer. If you switch these two around, then Tasmania will disappear from view, as the Australian map is now covering it, and the Tasmanian section of the Australian map displays in that location.

If you have a New South Wales and a Western Australian map layer loaded in first and second spots in the Active Layers panel, it does not really matter which order they are in. As the layers are unlikely to overlap each other, they should both display no matter what order they are in.

## Available Maps panel



You can move map layers between the Available and Visible panels by dragging them up or down using the drag handle.

There may be other map layers accessible to use within the app, which are not visible (ie. not on either the Visible or Available map panels). These layers will be visible and managed from the **Manage Maps section** of the Layers panel. From Manage Map Layers, you can add and remove map layers from the AVAILABLE panel. From the AVAILABLE panel, you can move them to the ACTIVE panel so that they become visible.

### For Your Information...

There must always be at least ONE layer in the Visible Maps panel.

If there is only one layer in the Visible Maps panel, you cannot remove it.

## Manage Maps panel

Here you will find the tools for managing map layers.

### More Maps

More Maps

The **More Maps panel** allows you to make other map layers visible in the Available Maps panel. The map layers within the app are divided into several categories, usually according to the source or type of map.



The maps within the app are divided into the following categories:

1. **Hema Explorer Map**



The Hema Explorer Map category contains two map layers created by Hema:

- Hema Explorer map layer
- Hema Explorer Grey map layer

The grey version of the Hema Explorer map can be useful if you want to visualise tracks or waypoints.

## 2. Hema map layers



- 250K Topo
- Cape York
- Fraser Island
- Great Desert Tracks
- The Kimberley
- VIC High Country

The layers shown here are other map sources provided by Hema. These sources may change over time as older sources are retired and removed, and other sources are added.

## 3. Topo Map Layers



Generally, the Topo Map layers are provided by government agencies for the respective state. These maps are not produced by Hema, but are licensed for use within the app.

These map layers are not able to be downloaded in their entirety for offline use due to size and licensing restrictions. You need to use the [Download Map Section](#) feature to download areas of interest while you are online, for use when you are offline.

#### 4. HERE Maps layers

These map sources are provided by HERE Maps (formerly Nokia), and include:

- HERE Street
- HERE Terrain
- HERE Satellite

These map layers are not able to be downloaded in their entirety for offline use due to size and licensing restrictions. You need to use the [Download Map Section](#) feature to download areas of interest while you are online, for use when you are offline.

##### Note!

You cannot download satellite imagery at all, as license restrictions prevent this.

### My Map Downloads panel

The **My Maps Downloads panel** is where you can download and manage sections of maps for use offline.

#### Download Map Section

Not all map layers available within the app are pre-installed or can be downloaded as a whole.

In these cases, the app allows you to select an area of the map to download.

##### Tip!

If you intend to download a map area for offline use, it is easier to centre and zoom the area you are interested in *before* you select the area using the download for offline function.

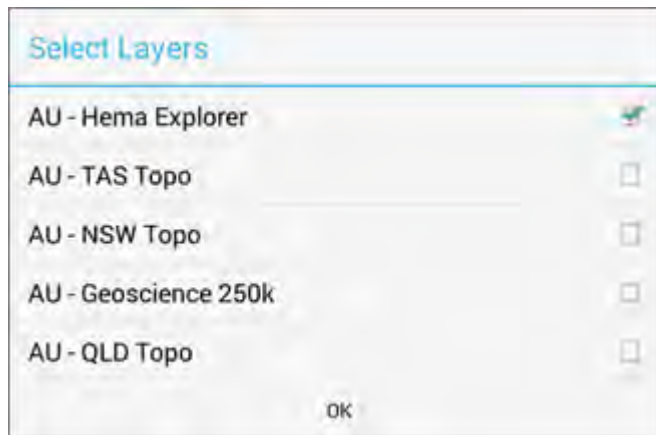


Download Map Section

When you tap the **Download Map Section button** under the My Map Downloads section of the Layers panel, you are prompted to choose which map layer(s) that you want as the source of the download.

The map layers that will see in the list depend on which layers are currently in the [Active Layers](#) and [Available Layers](#) panels.





Tap to tick the layers you would like to use as the source for downloading.

Tap the **OK** button.

Once you have chosen the layers required, you will see a screen showing a number of controls, as shown below:



The controls on the screen as shown in the example above are:

1. **Select Layers button**

This button opens the Select Layers panel, allowing you to change the layers selected for this download.

## 2. Size indicator

This indicator shows the number of tiles, and the amount of data required, to download the selected map layers, for the specified area, at the specified zoom level.

The larger the area, and the higher the zoom level, the bigger the download will be.



If this indicator turns red (1 above), the amount of data is too large to download in one go, and you will have to either:

1. make the selected area smaller
2. reduce the zoom level
3. or both

## 3. Max Zoom Level indicator

This indicator shows the currently selected zoom level (set using the slider at 4).

## 4. Zoom Level slider

The zoom slider determines the maximum zoom level for the map layer that you are downloading.

### For Your Information...

If you have multiple map layers selected before entering this screen, you will only be able to set the zoom level slider to the maximum zoom level of the map layer which has the lowest maximum zoom level.

ie. if you have two map layers selected, and one has a max zoom level of 12, and one has a max zoom level of 16, you will only be able to set the Zoom Level slider to a value of 12 on this screen.

## 5. Area Selector

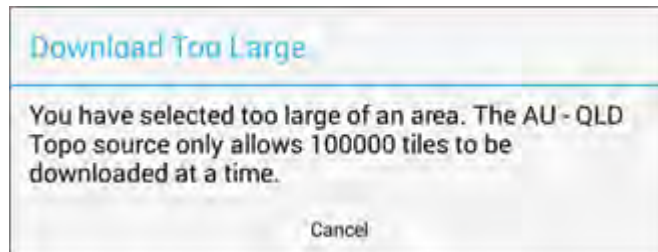
Drag the red box around by it's corner handles to select the area that you wish to download.

Remember if the Size indicator turns red, you are either trying to download too large an area, or too high a zoom level, or both.

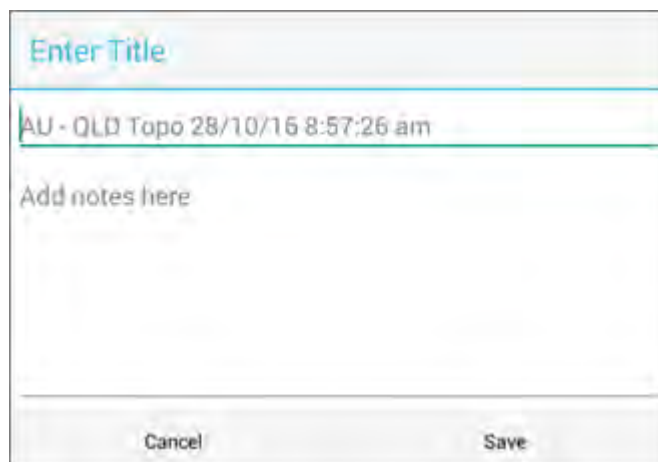
## 6. **Save button**

Tap the **Save button** when you are happy with the settings you have on this screen.

If you try to save your selection, and it is too large, you will be prompted to cancel the save, as shown below.

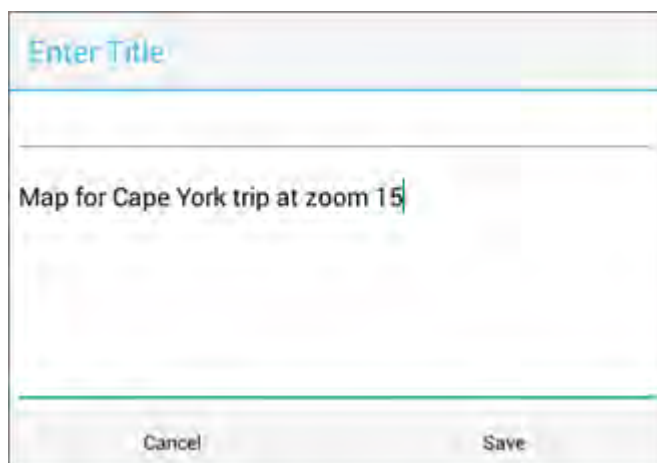


When you tap the save button, you will be prompted to give your saved map a name, and optionally add some notes for your reference.



By default, the title will be the name of the source layer, and the date and time. You can overwrite the suggested title with whatever text you like, but it is a good idea to give your maps a decent name.

When it comes time to clean up old map downloads, or those no longer required, it is easier if you can easily identify the content from the list of downloaded maps.

A screenshot of a mobile application dialog box. At the top, there is a title bar that says "Enter Title" in blue text. Below the title bar is a large text input field. Inside this field, the text "Map for Cape York trip at zoom 15" is entered, with the cursor at the end of the text. At the bottom of the dialog box, there are two buttons: "Cancel" on the left and "Save" on the right.

Once you tap the **Save** button, the download will be queued up, and can be seen in the **Downloads panel**.

After successfully downloading the map layer data, you will be able to see it in the **My Downloaded Maps panel**.

#### 7. **Cancel button**

Tap the **Cancel button** if you change your mind, and do not wish to continue downloading.

#### **Warning!**

As you saw above, the map layer that you want to download a section of **MUST** be in the Available or Active sections of the layers panel.

If you have a map section downloaded, and you subsequently remove the source layer from the Active or Available panels, the downloaded map will be deleted.

Therefore, if you wish to keep downloaded map sections, you must also keep the source layer for that download visible in the Layers panel.

## My Downloaded Maps

Whenever you download additional map sections for offline use, they will consume space on your **HX-1**. Periodically you may want to clean up old map sections which you are no longer using. ie. you may do a big trip to Cape York, but after returning, you may decide to remove the unneeded content until your next trip.

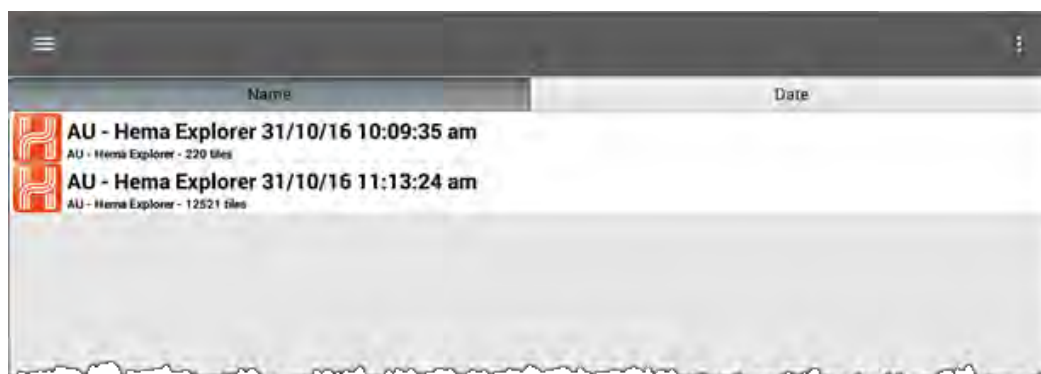
### My Downloaded Maps

Tapping the **My Downloaded Maps button** off the Layers panel will open the My Downloaded Maps panel.

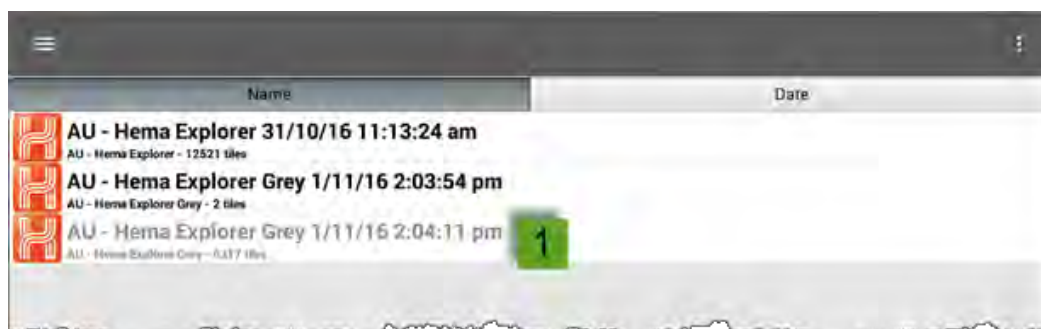
This panel displays a list showing any map layer sections which you have manually downloaded.

### For Your Information...

The map layer downloads referred to here do not include the full area map downloads (ie. state-wide downloads), which are downloaded when you first run the app.



If there is a map section download currently active, you will notice that it appear in the list, but it is greyed out, as shown at **1** below.



From this panel, you can manage your downloaded maps.

Tapping any map layer shown will open the **Map Download Details** panel.



From here you can perform a number of tasks related to the specific map download you are viewing.

1. Edit the Name and / or associated notes by tapping here
2. View the stats related to the map layer download
3. Edit the Name and / or associated notes by tapping here
4. Add the map layer download to a folder
5. Show the downloaded map section in the main map view by tapping here
6. Delete the current map layer download
7. Shows the date the map layer download was created

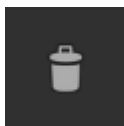
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### Removing multiple map sections

You can delete multiple downloaded map sections in one action from the **My Downloaded Maps** list.

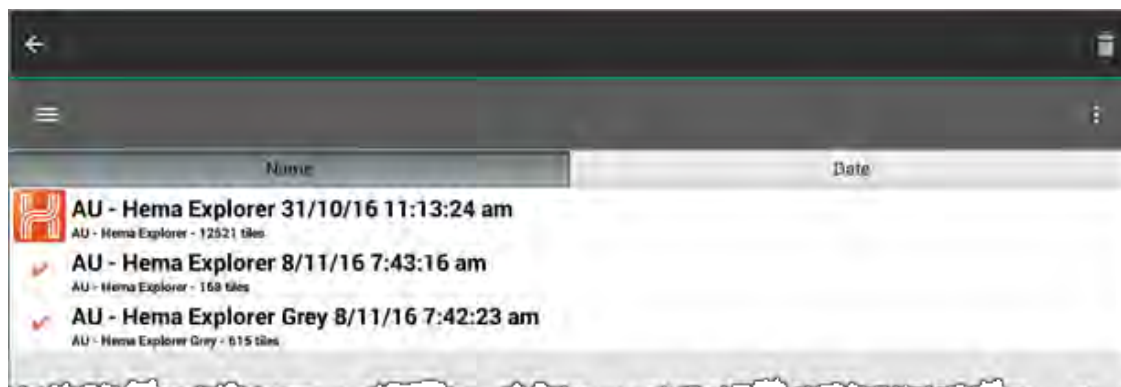
Simply tap-and-hold on one of the maps you wish to delete. The selected map will be ticked.

You can then tap on any of the other map sections you wish to delete.



Once you have selected the required map section for deletion, tap the **Rubbish Bin button** at upper-right.

If you change your mind, tap the **Done button** without making any changes.



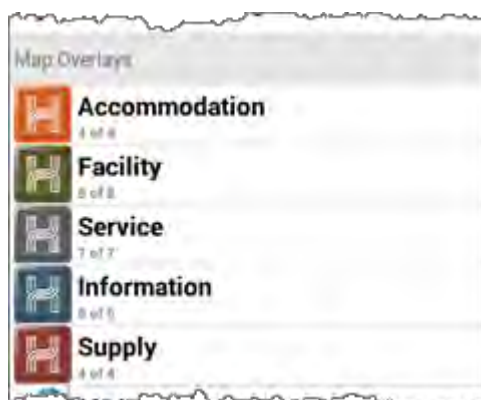
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## Map Overlays panel

Map Overlays are layers of information which appear on top of the map display.

Overlays often provide supplementary data which will likely be position related, so will appear in specific locations on the map.

## POIs



POIs (Points of Interest) refer to specific locations which may be of interest to you while travelling. These are provided by a party other than yourself, and usually built-in or downloadable as an add-on. In the case of **Explore**, POI data is built-in to the app, and comes from a number of

sources, such as Hema, HERE Maps, The Australian Government, and so forth.

POIs are different to waypoints. Waypoints also mark a specific location which may be of interest to you, but YOU create waypoints yourself.

POIs are generally divided up into categories and sub-categories to make managing them easier.

Think of POIs as a library of preset waypoints that someone else has created for your use, and included in the app for your convenience.

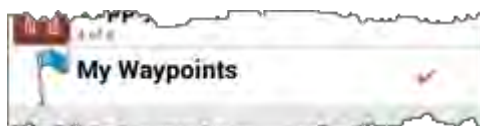
Waypoints are places you've added to the library for your own use (although, of course, you might share them with others as well).

Detailed information related to POIs is contained within the [POIs section](#) of this user guide.

## My Waypoints



The My Waypoints layer can be found by tapping the **Layers button** on the app titlebar.



You can toggle display on and off of all saved waypoints by tapping the My Waypoints control on the Layers panel.

Waypoint display is on when there is a tick displayed next to My Waypoints on the Layers panel.



## Side Panel

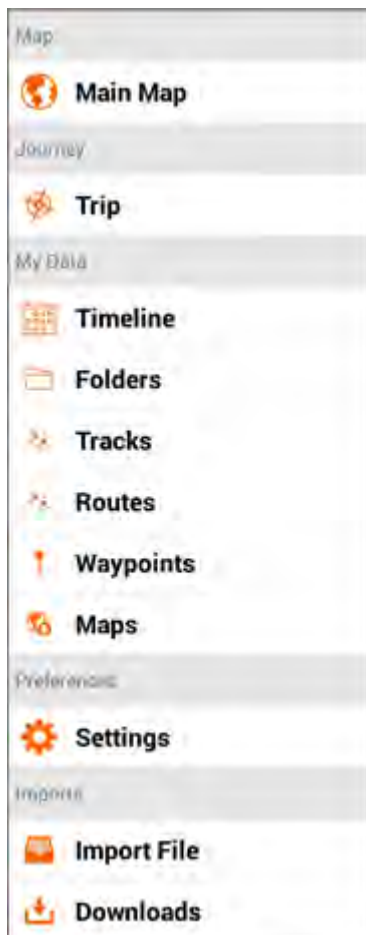
### Side Panel

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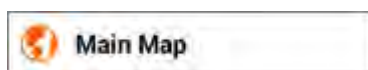


Pull out the Side Panel by tapping the **Side Panel button** at top-left of the main app screen.

The side panel contains a number of sub-panels, as shown in the image below.



Each of the functions provided by the sub-panels is discussed in separate chapters, where appropriate, in this user guide.



The **Main Map button** on the side panel returns you to the app's main map view.

### Journey section

#### Trip



The **Trip button** on the side panel opens the **Trip panel**, showing details of the currently active trip/track.

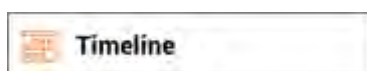
Further details are contained in the [Trip panel section](#) of this eGuide.

---

### My Data section

The side panel sections under **My Data** relate specifically to the data which you have saved or synced on your device.

#### Timeline



The **Timeline button** opens the **Timeline panel**, showing all your data in reverse chronological order (ie. most recent down to oldest).

Further details are in the [Timeline panel section](#) of this user guide.

#### Folders



The **Folders button** opens the **Folders panel**. Folders allow you to organise your data in useful ways.

Further details are in the [Folders panel section](#) of this user guide.

## Tracks



The **Tracks button** opens the **Tracks panel**, showing all Tracks which you have on your device.

Further details are in the [Tracks panel section](#) of this user guide.

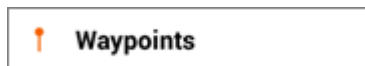
## Routes



The **Routes button** opens the **Routes panel**, showing all Routes which you have on your device.

Further details are in the [Routes panel section](#) of this user guide.

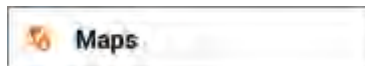
## Waypoints



The **Waypoints button** opens the **Waypoints panel**, showing all Waypoints which you have on your device.

Further details are in the [Waypoints panel section](#) of this user guide.

## Maps



The **Maps button** opens the **Maps panel**, showing all downloaded map segments which you have on your device.

Further details are in the [Maps panel section](#) of this user guide.

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## Preferences Section

### Settings



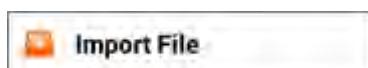
The **Settings button** opens the **Settings panel**, where you can change the configuration of the app on your device.

Further details are in the [Settings panel section](#) of this user guide.

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## Imports section

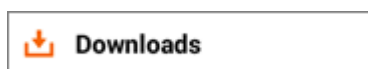
### Import File



The **Import File button** opens a **browser panel**, which you can use to import external files (waypoints, tracks, routes, etc.) stored on your device.

Further details are in the [Import File section](#) of this user guide.

### Downloads



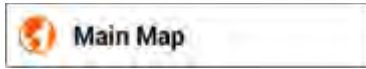
The **Downloads button** opens a **Downloads panel**, which you can use to view and manage in-progress downloads on your device.

Further details are in the [Downloads panel section](#) of this user guide.

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## Main Map

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The **Main Map button** on the side panel returns you to the app's main map view.

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## Trip panel

### Introduction

Throughout this user guide, and other documentation associated with the **Explore Mode** app, the terms **Trip Log** and **Track Log** can be used interchangeably. Regardless of what you prefer to refer to it as, the Trip (or Track) Log has one purpose, to store information related to your current trip.

When you are travelling, if you have enabled recording, **Explore** will record your path and optionally sync it to your Hema Cloud account. Tracks are a record of the path which you have followed, and contain statistics related to the trip.

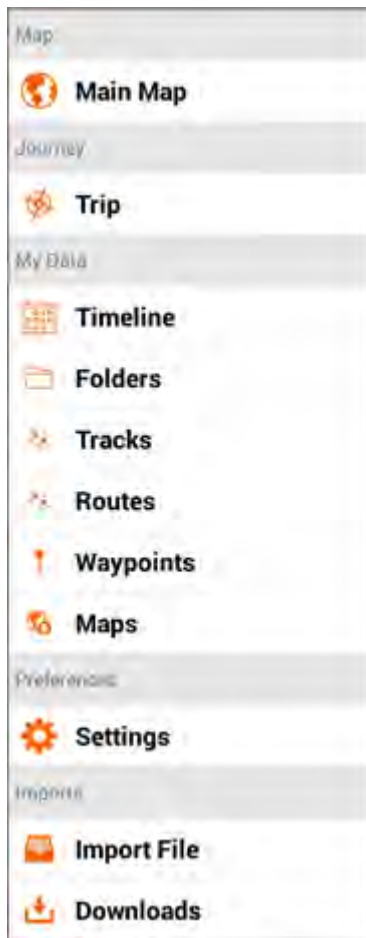
They can be a handy way to find your way back out of thick scrub, or perhaps when you entered an area by day, and need to find your way back out again after darkness has fallen.

You can turn track logging on or off at any time.

Track logging functions are performed on the **Trip screen**.

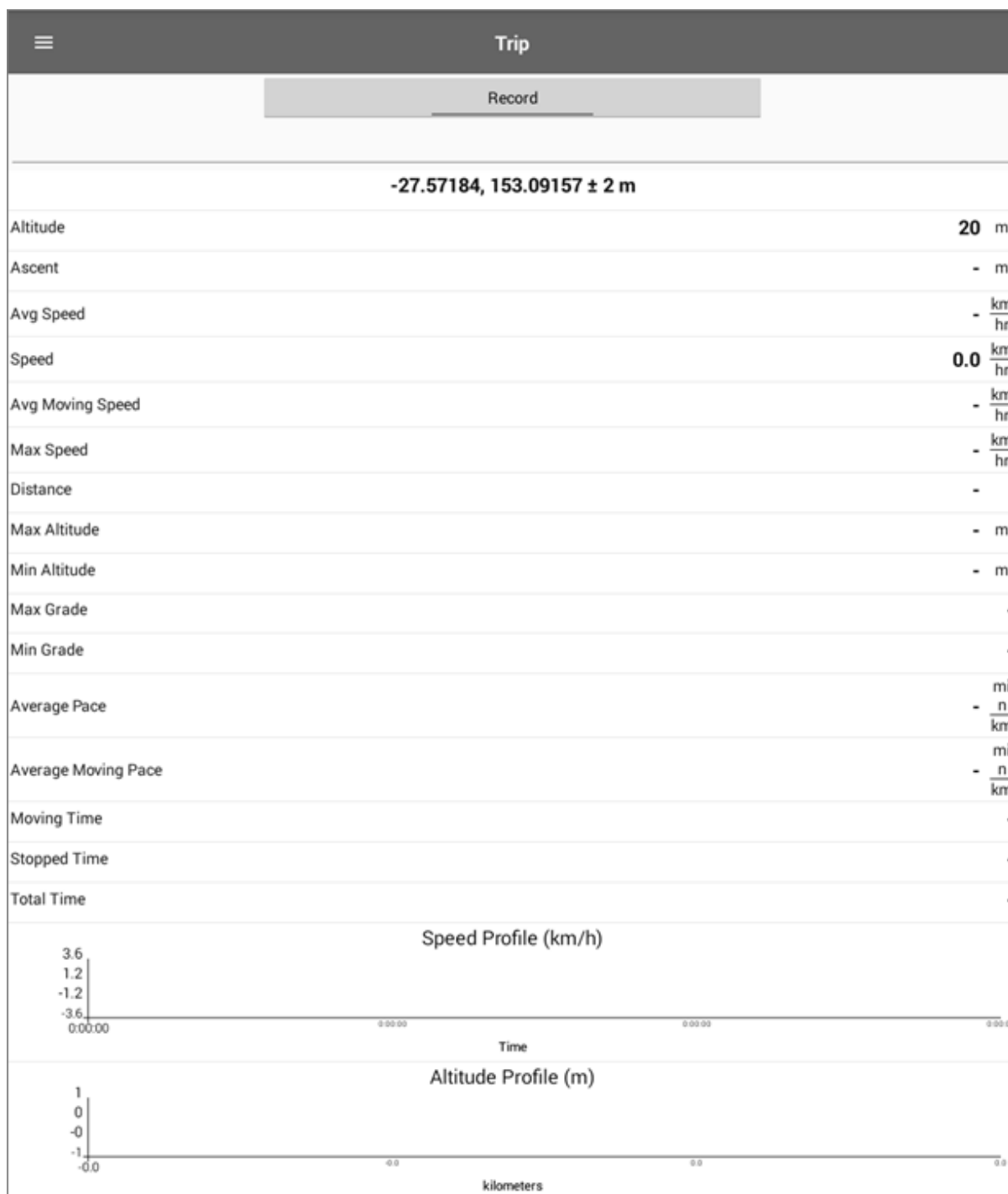


Tap the **Side panel button** at the top-left of the screen.



On the side panel, under the **Journey section**, tap the **Trip button** to open the **Trip screen**.

The trip panel shows a variety of parameters related to the current trip, along with Speed and Altitude Profile graphs at the bottom, as shown below.

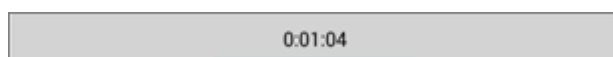


### Recording a Trip



To start a new trip (or track) log, tap the **Record button**.

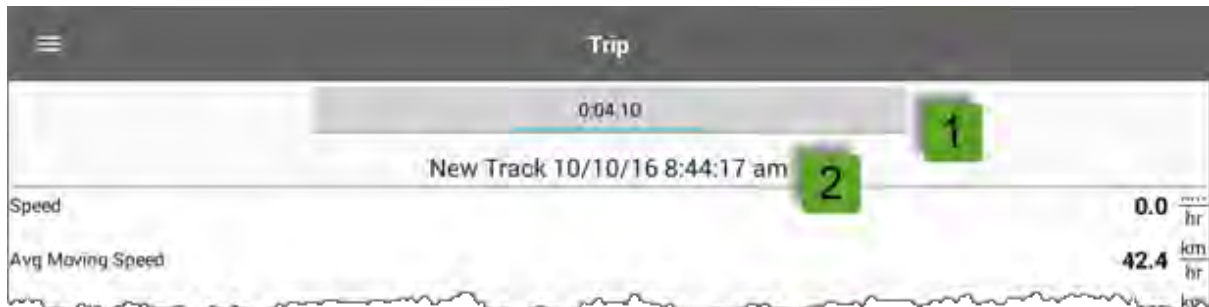
When recording starts, the **Record button indicator** lights up, and the duration of the recording is displayed on the button.





The current track name is also displayed under the button.

By default the track name is **New Track dd/mm/yyyy hh:mm:ss** (the date and time shown being the date and time the track was initiated).



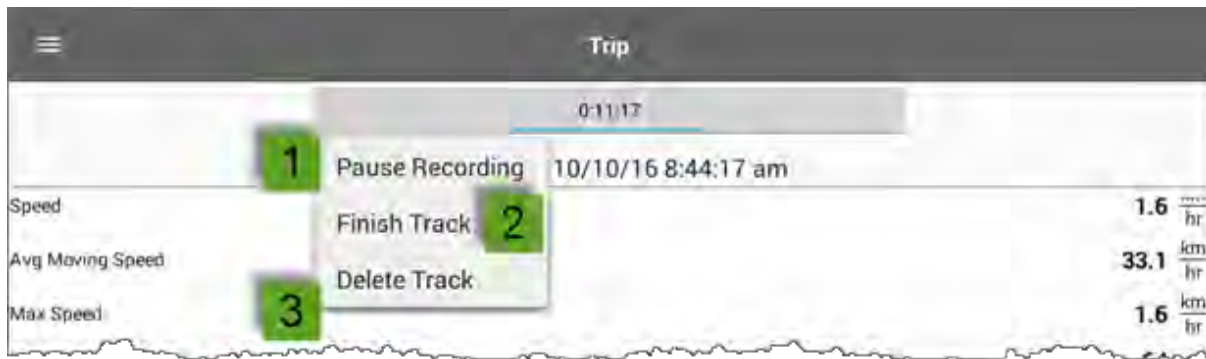
### Tips on naming your data

It is recommended to give your data (Routes, AND Tracks & Waypoints) a sensible name for future reference, and to aid in identifying Tracks, Waypoints and Routes on your Cloud account, etc.

Here's some suggestions:

- **Routes & Tracks**
  - rt-Brisbane-to-Roma ("rt" - identifies it clearly as a route)
  - tr-CapeYorkTrip-2013 ("tr" - identifies it clearly as a track)
  - tr-WA-Odyssey
- **Waypoints**
  - Micks\_Secret\_Barra\_Spot
  - Perfect-Campground
  - Nice\_Sunset
  - RareBirdColony
  - 2014-CapeYorkTrip-001-Camp1
  - 2014-CapeYorkTrip-002-TrackJunction
  - 2014-CapeYorkTrip-003-CreekCrossing

You get the idea! It is a bit of effort to name your data initially, but it will be easier to find and use your data later if you give it a good recognisable name right from the get-go. Also, you may recognise the name quite easily, but if you are sharing the data with others, it may not be so obvious



While the track is recording, tapping the button again will display a menu with the following options

### 1. Pause Recording

This will suspend the recording until the button is pressed again. If you move location while the track is paused, these movements will not be recorded in your track.

The trip log can be paused and resumed at any time.



When the trip log is paused (ie. not recording), and the **Paused button** is displayed, simply tap it to resume recording. The button will change state to show that it is currently recording, as shown above.

### 2. Finish Track

This option will end the current track, and iopen the Track edit panel, allowing you to make changes to some of the data associated with the track (such as the name, notes, etc.)

### 3. Delete Track

This option will end the track recording, and delete the recorded track data. If you select this option, you will be prompted to confirm your action, as shown below.

Once you choose to delete the track, and confirm your action, there is no going back - there is no way to recover the data, so be sure before you confirm.

### Editing the Trip panel layout

When the app is installed, the parameters shown on the trip panel are listed in their default order. The display order can be modified to suit your personal taste.

If you wish to change the order of the fields on the Trip panel, tap-and-hold on one of the data fields.



This will activate edit mode. While in edit mode, drag handles appear to the right of each data field, as shown below:



To move a field up or down in the list, tap the drag-handle on the required data field.

While holding the drag-handle, drag it up or down the pane. Lift your finger to drop it in the required position.

Once you have rearranged the fields to suit, tap-and-hold on one of the data fields to exit edit mode. The drag handles will switch off, and your new layout will become permanent.

Remember that you can change the display order at any time by following the process above.

## Routing

You can access the routing function within **Explore** from the left-side pullout panel.

The routing function within **Explore** allows you to auto-create a route between two locations.

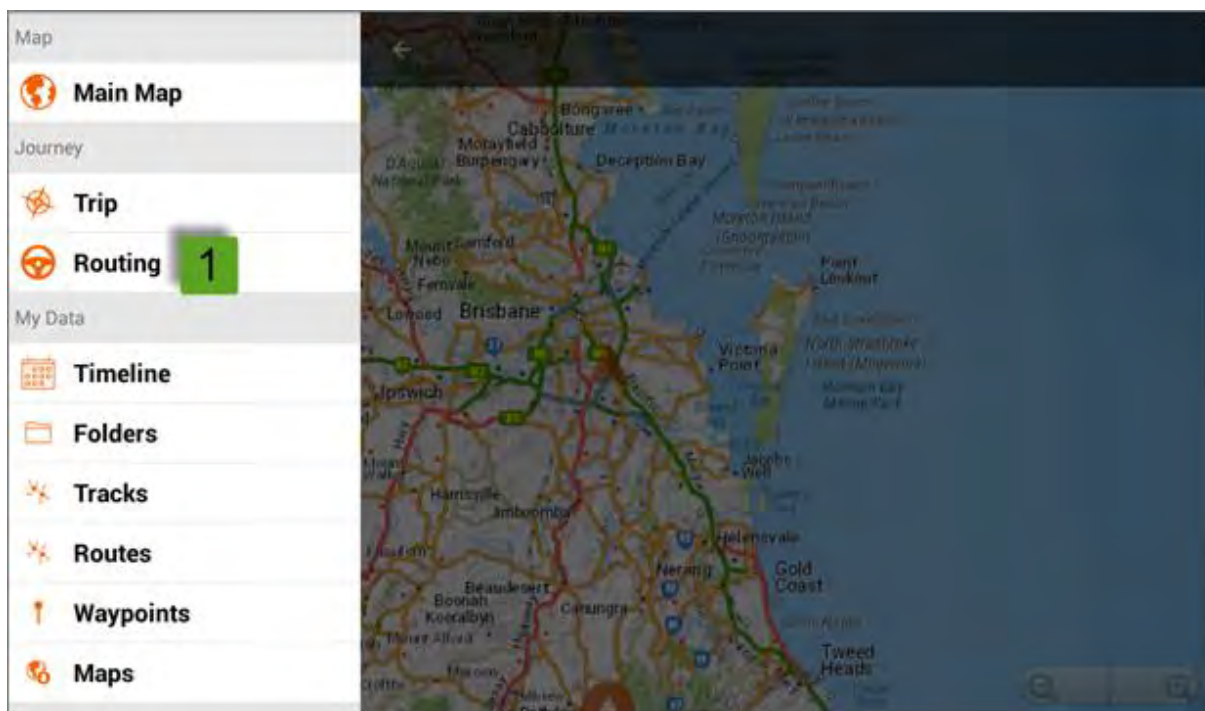
### For Your Information...

A route in **Explore Mode** is different to a route in **Drive Mode**.

In **Drive**, a route is a series of turns with voice guidance for each manoeuvre required along the route, from start to destination.

There is no voice guidance in **Explore**.

Also, the ability to route is an ONLINE ONLY feature in **Explore**. This means that it is not possible to calculate a route between destinations without an internet connection. If this is important, consider using **Drive** to create your route when offline.



Tap the **Routing button** to start the route generation process.

## My Data Panel

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### Timeline

The **Timeline panel** provides a way to view your data based on the date it was created / recorded. Your data consists of:

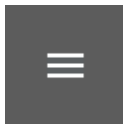
- Tracks
- Waypoints
- Maps
- Routes
- Images

Using the other views, such as the **Tracks List panel**, you can see your data grouped together by type. ie. All Tracks together in one place.

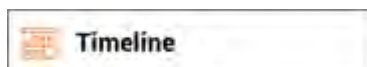
In these panels, you can also sort your data by date. However, all the data remains isolated by type. ie. You can only ever see all the tracks in one place (in the **Tracks List panel**), or the waypoints in one place (the **Waypoint List panel**).

The Timeline allows you to see all your data, regardless of type, grouped and sorted by date, from the current date, back in time.

### Accessing the Timeline panel



To access the Timeline view, tap the **Side panel button** at the top-left of the screen.



Open the **Timeline panel** by tapping the **Timeline button** on the pull-out side panel.

The Timeline panel shows all data currently on your device, grouped together by date, then sorted into reverse chronological order (latest at top, getting older the further you scroll down the panel).

The data is grouped by month. This cannot be configured in any way.

An example of the view provided by the Timeline is shown below.

**Tip!**

Only months in which data was created or recorded will be shown.  
Months containing no data will simply not appear.

## Folders

### Introducing Folders

Folders are a way of grouping your data together. Your data consists of:

- Tracks
- Waypoints
- Maps
- Routes
- Images

Using the other views, such as the Tracks panel, you can see your data grouped together by type. ie. All Tracks, or all Routes, together in one place.

The beauty of Folders is that you can group all this data together in a structure which is more meaningful and useful to you.

For example, you may be going on a trip to The Kimberley. You have created a number of waypoints, and some routes to help guide you to where you wish to go.

You can move these items into a folder called "The Kimberley Trip 2015", and see them all in one place where all items related to the Kimberley trip are gathered.

During the trip you may take a bunch of photos, add some new waypoints, and record some track logs showing the path you followed on the trip.

You can also move these new items into the folder.

Once your device syncs up to the Cloud, the folder structure is replicated there, so when you return home, and wish to view details of the trip, all this data will be visible grouped together in one place.

### Managing Folders

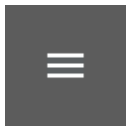
The way to think of Folders within the *Hema Explorer* app is just like the folders on your PC. The best analogy is that of a filing cabinet.

In a filing cabinet you have a hierarchy of *containers*.

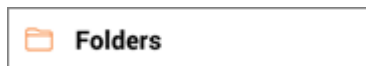
At the top level you have the drawers of the filing cabinet, within the draws, you have divisions by letter. Within each letter division, you have individual folders. Inside each folder, you would expect to find that all items in that folder are related in some way. How you organise this structure is entirely up to you.

You can add existing data to a new folder, or you can add new data (ie. a newly recorded trip log) to a folder which already exists.

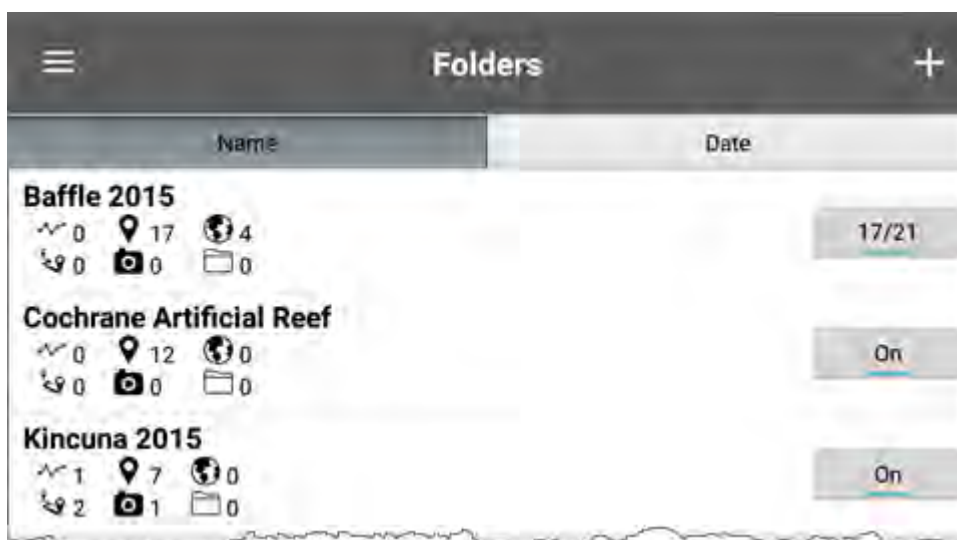
### Accessing the Folders panel



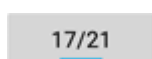
To access saved Folders, tap the **Side panel button** at the top-left of the screen.



Open the **Folders panel** by tapping the **Folders button** on the pull-out side panel.



The Folders panel shows all folders which are currently on your device.



The **Visibility button** on each folder determines whether the content is visible on the map (for content in the folder where this is applicable).

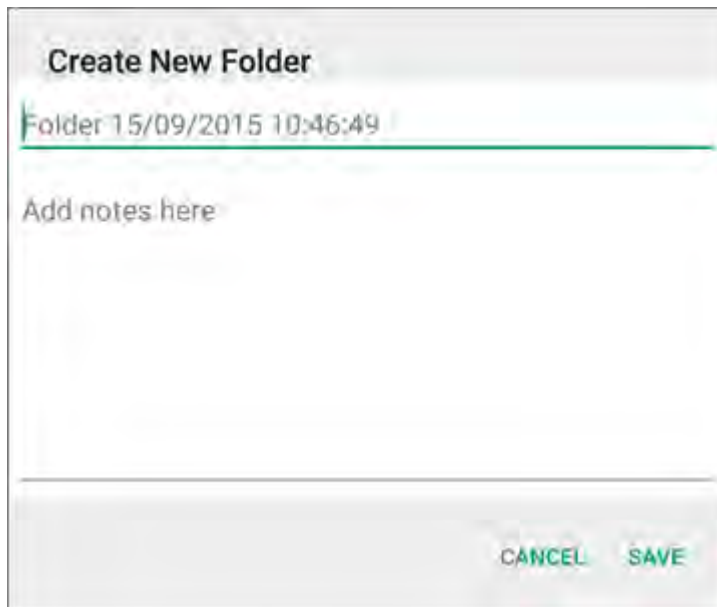
The example above shows that out of the 21 items in the folder, 17 are visible on the map (remember, some items are not able to be shown on a map, such as subfolders, map downloads, etc.)



### Adding a new Folder



You can add a new folder by tapping the **Add folder button** at top-right of the Folder panel.



By default, the name of the new folder will be **Folder dd/mm/yyyy hh:mm:ss**

You can give your folder a new name, add notes if required, then tap the **Save button** to save it.

### Sorting data in the folders list panel

The data displayed in the Folder List panel can be sorted by the following fields

- Title
- Date







You can tap on the fields at the top of the pane to change the sort order.

Whichever field is selected as the sort order, the order will always be

- Name - Ascending
- Date - Most recent at top

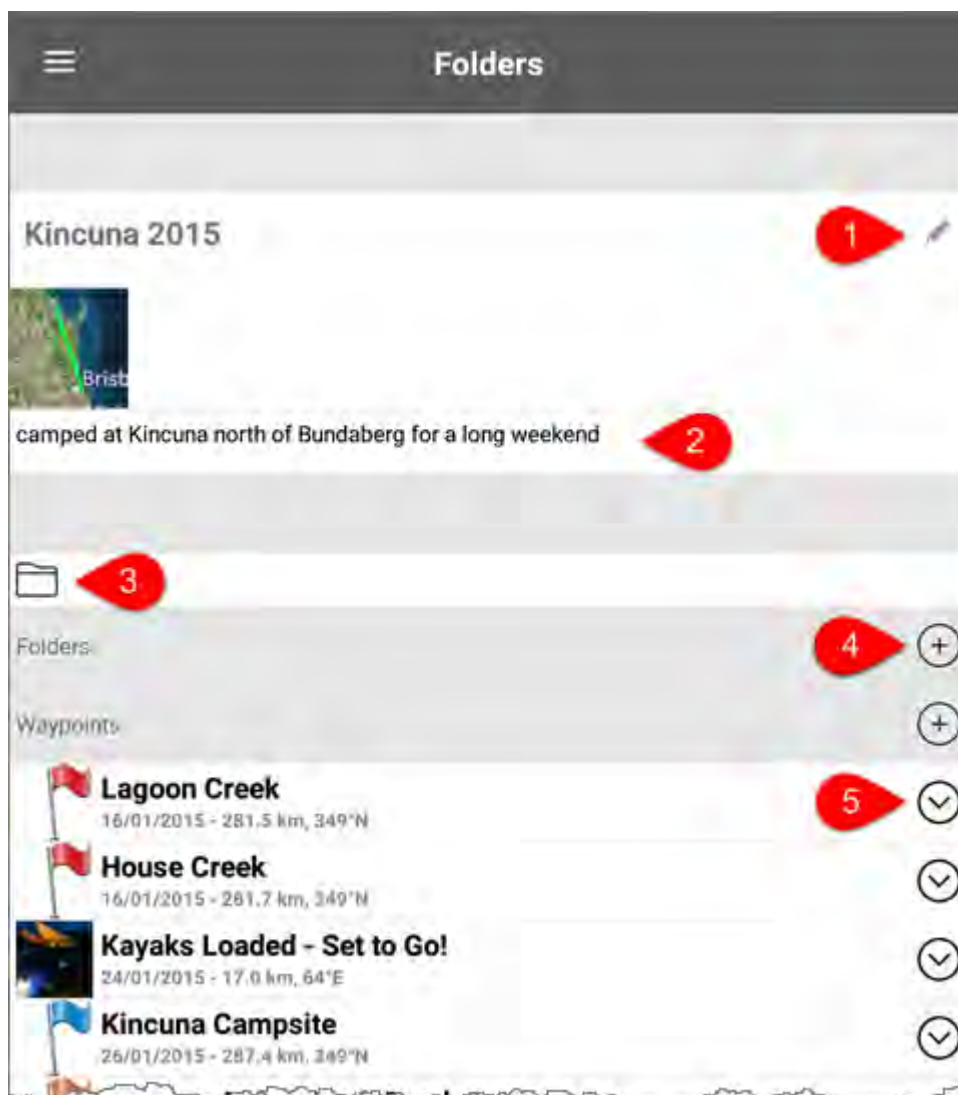
The symbols on each folder show how many of each sub-item are contained within that folder.

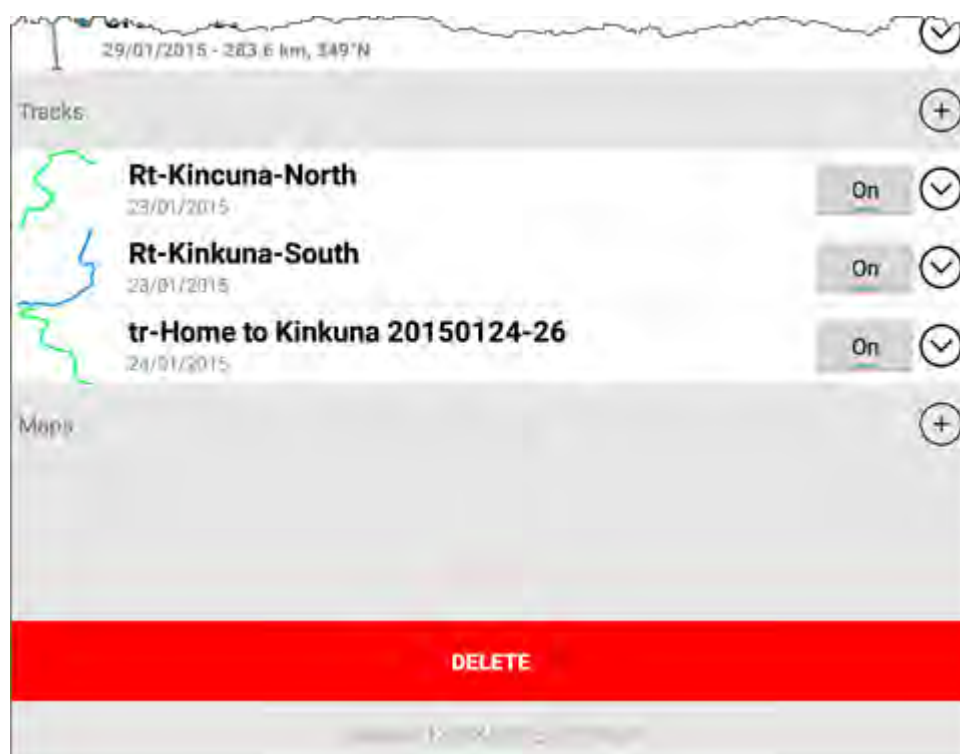
### Icon Content

-  Tracks
-  Waypoints
-  Maps
-  Routes
-  Images
-  Sub-Folders within the current folder

### Viewing details for a specific folder

From the **Folder List panel**, tap a specific folder to view the details for that folder.





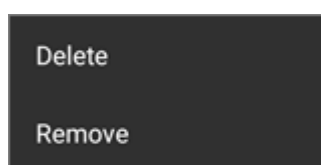
From the **Folder Detail panel**, you can do a number of things related to the folder:

1. Rename the folder
2. Add notes related to the folder
3. Add the current folder to another folder (which makes this folder a sub-folder of the other folder)
4. Add Item



You can tap the **Add Item button** in each sub-category header to add a new item of that category to the folder. (ie. tap the **+ button** on the Tracks header to add a new track to the folder).

5. Action button



You can tap the item action button to Delete or Remove that item.

Tap the **Delete option** to delete the item.

Tap the **Remove option** to remove the item from within the folder. When an item is removed from a folder, it returns to its standard container. ie. Waypoints appear in the waypoints list, Routes appear in the routes list, etc.

**WARNING!**

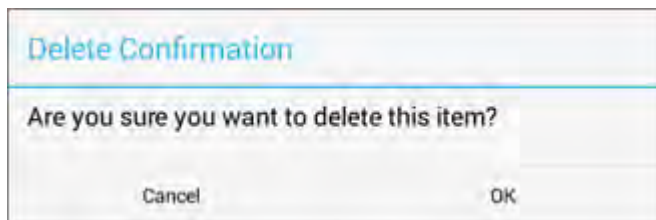
Note the difference between deleting and removing an item!  
If you delete an item, it is permanently deleted.  
Removing an item merely removes it from the current folder, returning it to the standard container for that item type.

**Deleting a folder**

You can delete a folder completely by tapping the **DELETE button** located at the bottom of the Folder Details panel.



When you tap this button, you will be prompted to confirm that you wish to continue with the delete operation.



Tap the **OK button** to confirm that you wish to delete the folder.

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## Tracks panel

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Any saved data such as tracks, waypoints and routes can be accessed from the My Data section of the pull-out side panel.



To access saved Track data, tap the **Side panel button** at the top-left of the screen.



Open the **Tracks List panel** by tapping the **Tracks button** on the pull-out side panel.

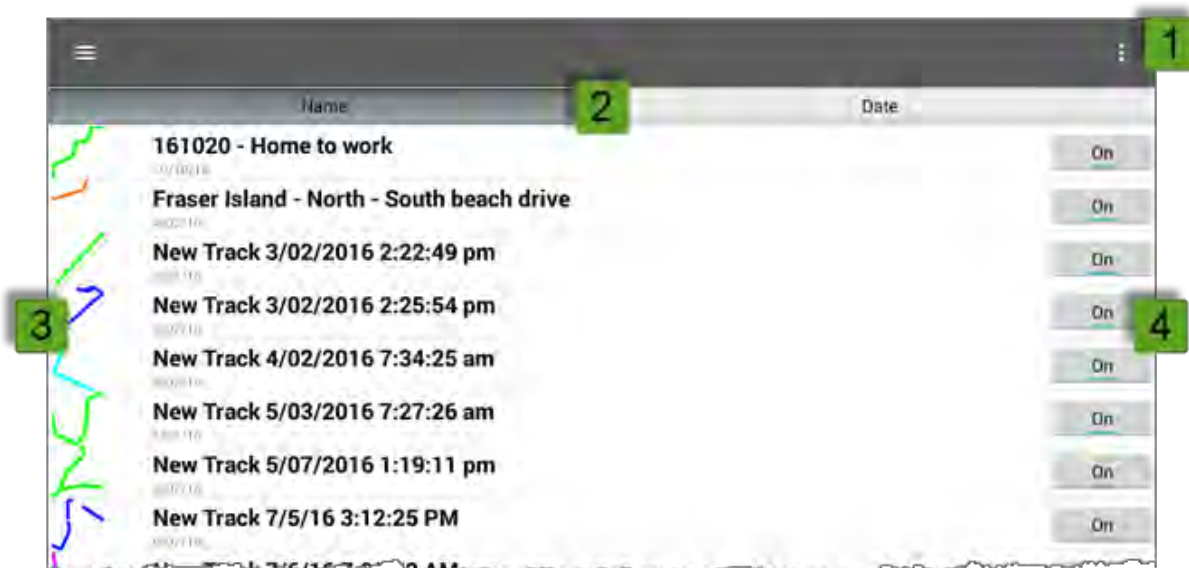
The Tracks List panel shows all tracks which are currently on your device.

### Tip!

If you do not see any items displayed in the panel, or you do not see specific items that you know should be in the list, it may be that they have been added to a folder. By default, items which are in folders will not appear in this list.



Use the menu button to open the show / hide dialog, and tap the **Show All option** to view all items, regardless of whether they are contained within a folder or not. You can reverse the view and hide all items stored in folders using the **Hide Filed Items option** on the show/hide popup.



From the Tracks List panel, you can:

1. Tap the menu button to show or hide filed items (ie. any tracks which are assigned to **Folders**).
2. Sort the list of tracks in Name or Date order by tapping the appropriate header
3. Change the track line colour for a given track in the list by tapping the track thumbnail
4. Switch track visibility on or off



If the **On button** is switched on for a particular route, then that track will be shown on the map panel. This allows you to hide whichever routes are not of interest to you at that time.

If the **Sync Data option in the Settings panel** is switched on, then tracks shown in the Tracks List panel are also synced to your Cloud account.

### Track Details panel

From the Tracks List panel, tapping a particular track will open the **Track Details panel** for that track.



From the Track Details panel, you can see / do a number of things:

1. Opens the **name / notes edit panel** - change the name and add or edit notes pertaining to the track.
2. See a larger preview of the track by tapping the map preview thumbnail.
3. Opens the **name / notes edit panel** - change the name and add or edit notes pertaining to the track.
4. Add the track to a folder (if the route is already in a folder, the name of the folder is displayed here)
5. View statistics related to the track
6. Show the track on the main map panel
7. Edit the track
8. Guide Me will start navigating to the first point in the track. See the [section on Following a Route](#) further down this topic.
9. Resume Recording

You can resume recording any track from where it finished.

However, note that if you resume recording, the track will "jump" from the last point to the point at which the track was resumed.

Therefore if there was a gap of say 200 klm between the track's previous last point, and the point at which it was resumed, there will be a 200 kilometre long straight line joining these two points.

10. Download Map Along Track will download tiles in the currently active layers to cover the path of the track.

See the section on Downloading maps along a track in the Downloading Maps section of this user guide for further information.

11. You can delete the route by tapping the red **DELETE button** on the route details panel.

12. The date the route was created is displayed here.

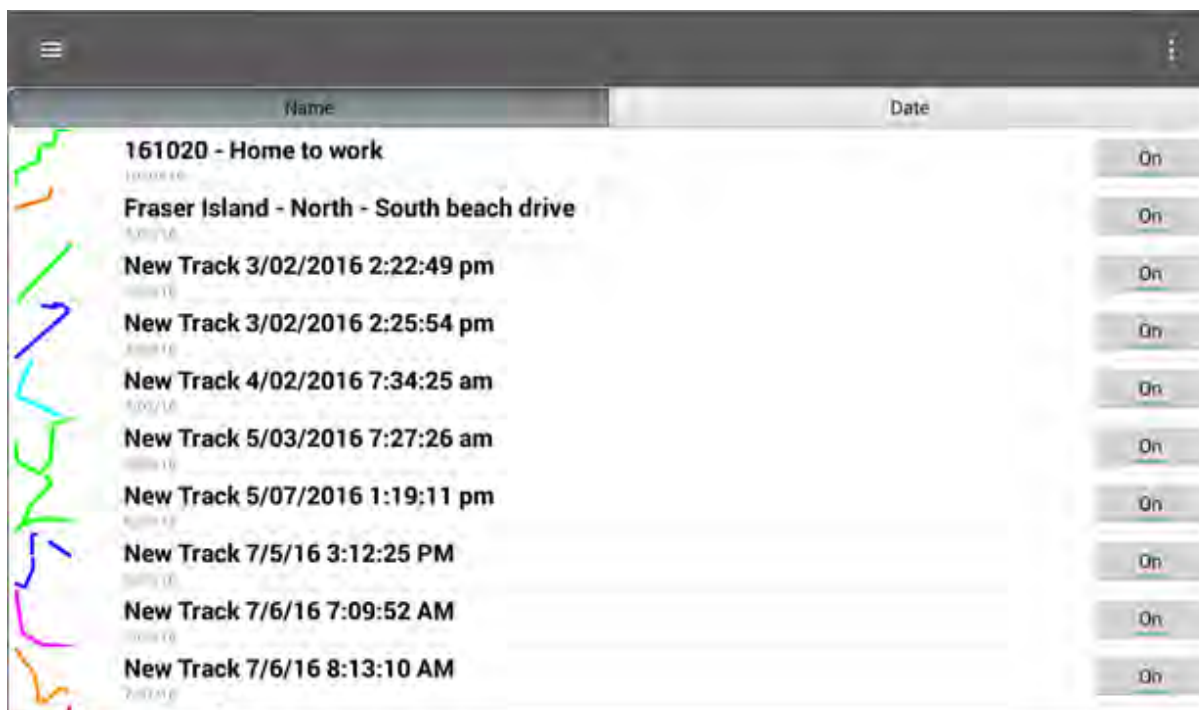
### Editing Tracks

The app allows you to modify tracks in the following ways:

- Change the name of the track
- Add notes to the track
- Trim the track by modifying the start and end points
- Determine whether the track is shown on the map panel
- Deleting existing track logs



To edit an existing track, open the Tracks panel by tapping the Tracks button on the pull-out side panel.



Find the track you wish to modify in the Tracks panel, and tap it to open the **Track Details panel**.

Then tap the desired track .

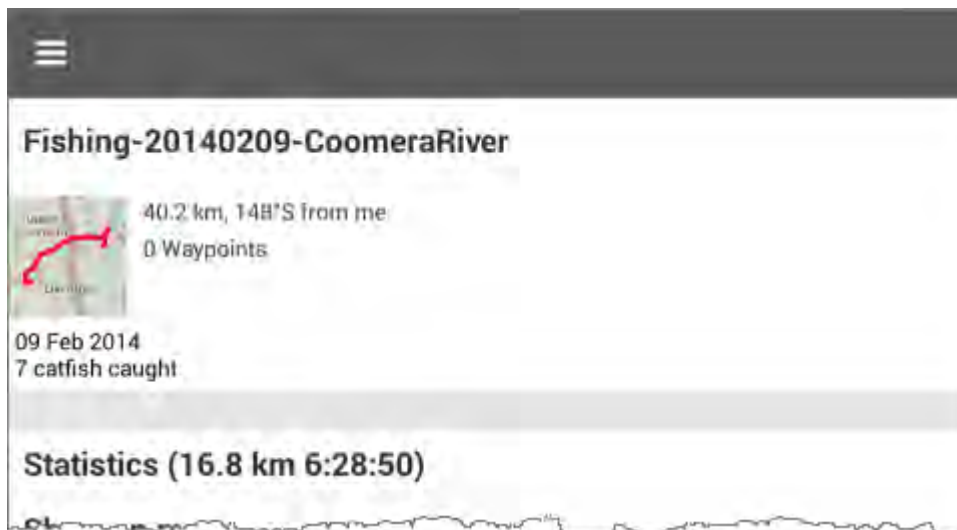


### Change a Route or Track's Name and Notes

When a track is created by the app, it assigns a default name to the track. You can change the name of the track at any time.

We recommend assigning a good name to the track right from the get-go to avoid confusion and make it easier to locate your track data later. (See the Data Naming Tips in the [Trip Panel section](#) of this user guide for more information).

To change a tracks name and add or edit notes associated with the track, tap the track in the Tracks panel. The Track Details panel will open:



Tap the name at the top of the panel (in this case ***Fishing-20140209-CoomeraRiver***) to open the **Edit Name** panel.

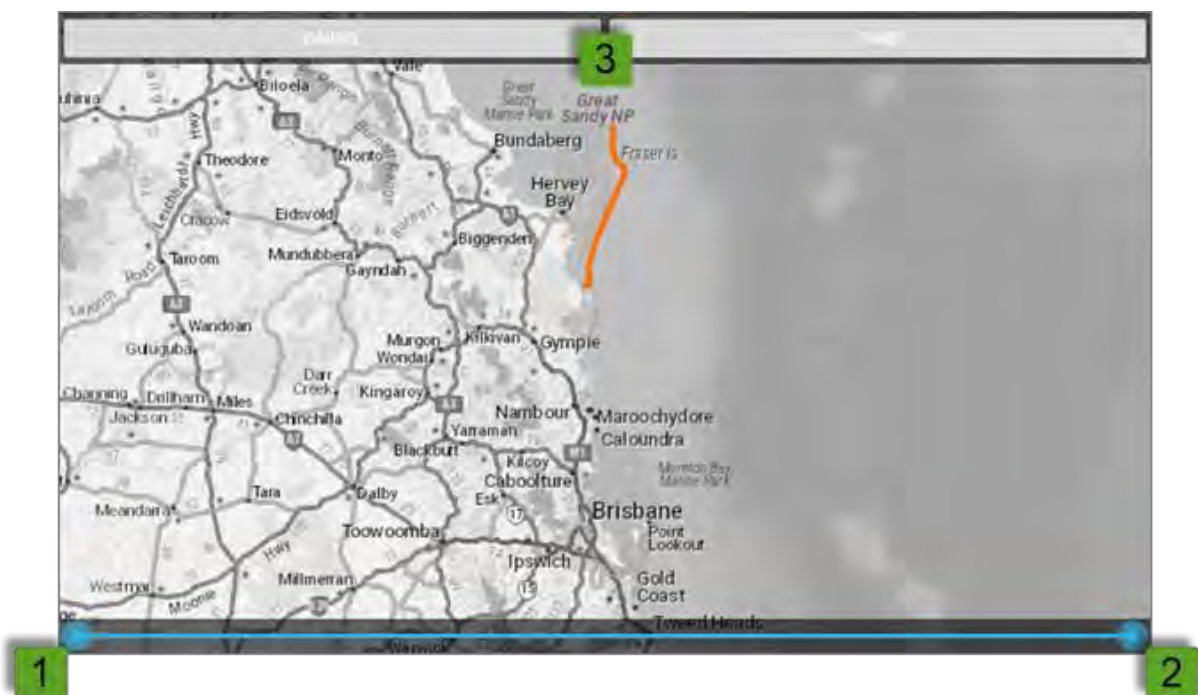


You can modify the Track name, and / or add a note attached to the track here. Once you are happy with the entries, tap the **Save** button. If you change your mind, tap the **Cancel** button.

### Trimming a Track

You may have recorded a track, and it has some superfluous data at the start or end of it. You can trim the beginning and end off a track quite simply.

Tap the track you wish to edit. The Track edit screen will appear.



1. Track Start Trim handle
2. Track End Trim handle
3. CANCEL and SAVE buttons

The **Track Start Trim and End Trim handles** can be dragged left and right along the track graph at the bottom of the track edit screen. This allows you to trim the start and end of the track to remove any unnecessary data.

As you drag the handles, you will see that the track displayed on the map is modified in relation to the dragging of the handle(s).



Once you are satisfied with your edits, tap the **Save button** to make the changes permanent.



If you change your mind, or wish to exit once changes have been made, tap the **Cancel button**.

### Following a Route

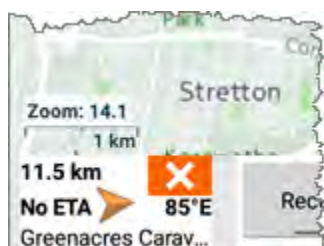
You can use the Guide Me function on the track details panel to start navigating to the first point in a track or route.

When you choose to start navigating along a route, *Hema Explorer* will create a line between your current position, and the first point in the route.



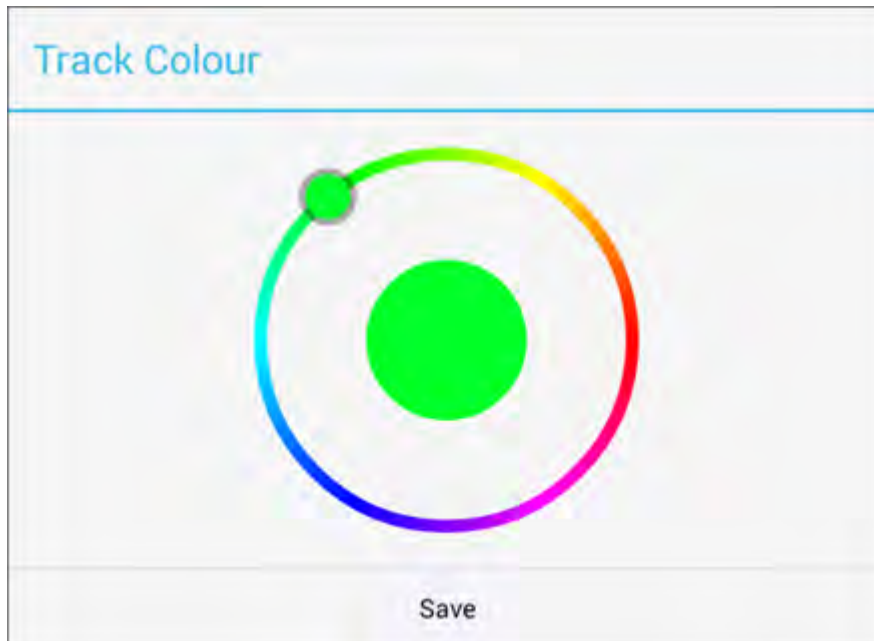
A sub-panel appears in the lower-left corner as part of the bottom data panel.

You can tap the **X button** to cancel the Guide Me operation.



### Changing a Track's Line Colour

Tap the thumbnail adjacent to an entry in the Tracks or Routes list panels to change the line colour of that item.



Tap-and-drag the dot around the circle to choose your desired colour, then tap the Save button to make your change permanent.

If you change your mind, simply tap outside of the dialog to close it without making any changes.

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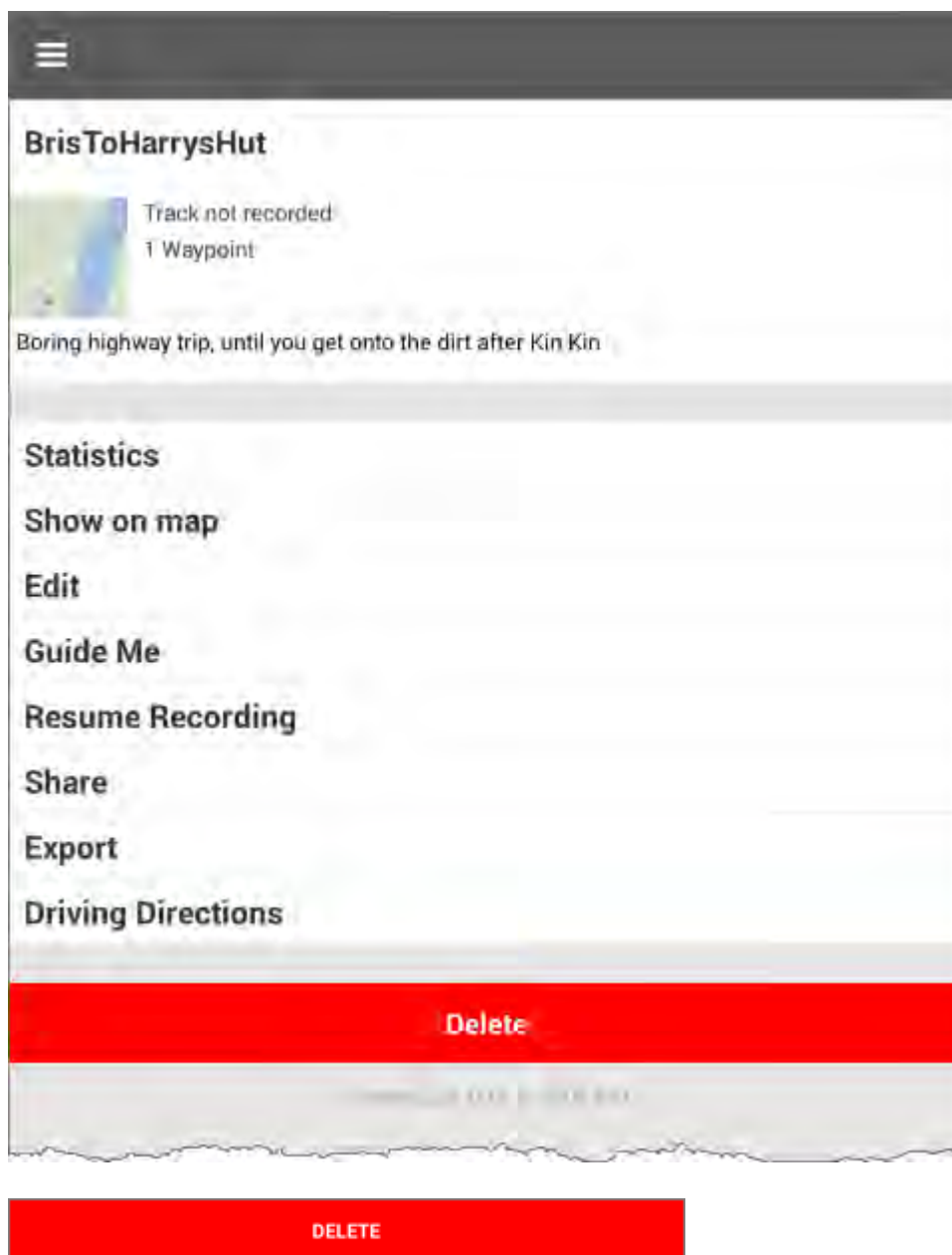
### Deleting Tracks

Any tracks which are visible in the Tracks panel can be deleted.

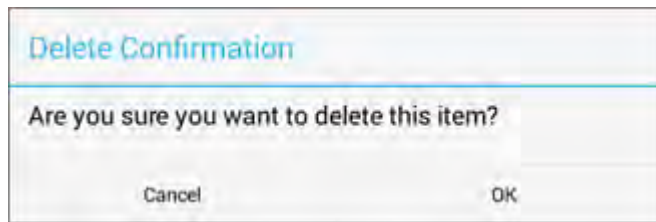
You can delete tracks individually, or delete multiple Tracks with one action.

#### Deleting a single track

Tap the track you wish to delete from the **My Data panel**.



Then, tap the **Delete button** on the Track Edit panel.



You will be prompted to confirm that you wish to delete the selected track log. Be sure you wish to delete the item before tapping the **OK button**. If you change your mind, simply tap the **Cancel button**.

### For Your Information

When you delete data from within the app which has previously been synced to your Cloud account, the item(s) you delete will be flagged within your account as being *archived*.

When data items are flagged as archived in your Cloud account, they will no longer sync within your account (ie. they will not sync between devices).

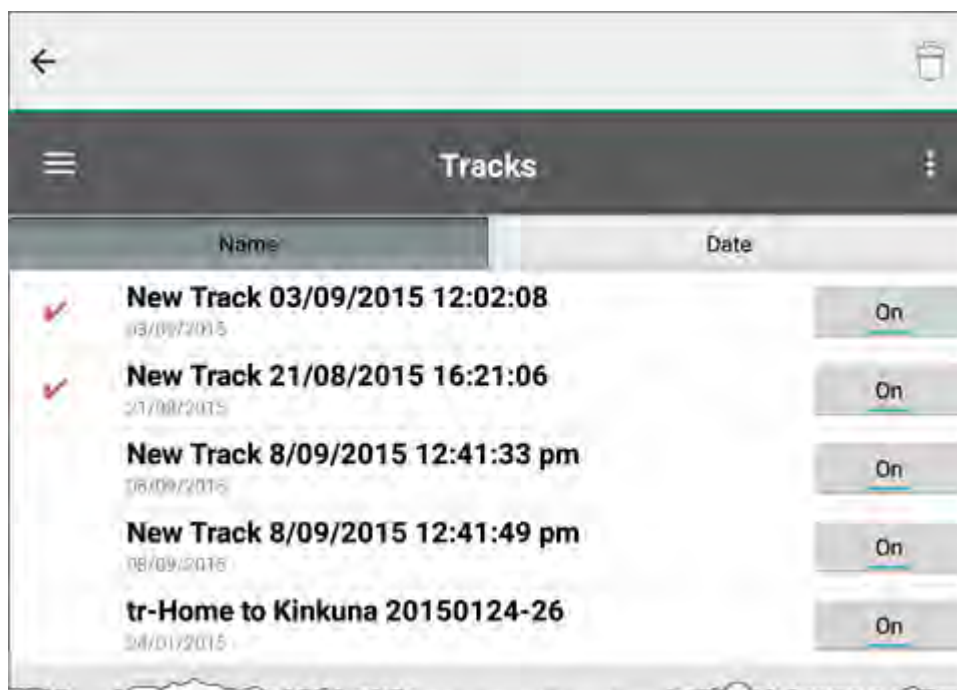
This effectively means that if you accidentally delete something from a device, you have a second chance to recover it, if you remove the archive flag from the item(s) in question on the Cloud itself.

Details of this are in the Cloud user guide ([search for the word archived](#))

### Deleting multiple tracks

You can delete multiple tracks in one action from the Tracks list.

Simply tap-and-hold on one of the tracks you wish to delete. The selected track will be ticked.



You can then tap on any of the other tracks you wish to delete. Each track you tap will be selected, as indicated by the tick mark.



Once you have selected the required tracks for deletion, tap the **Rubbish Bin button** at upper-right.

#### **Warning!**

You will NOT receive a confirmation prompt when you tap the Delete button! The selected items will be deleted immediately. Make sure that you wish to delete this data before you tap the Delete icon.

If you change your mind, tap the **Done button** without making any changes.

## Routes panel

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Any saved data such as tracks, waypoints and routes can be accessed from the My Data section of the pull-out side panel.



To access saved Route data, tap the **Side panel button** at the top-left of the screen.



Open the **Routes List panel** by tapping the **Routes button** on the pull-out side panel.

The Routes List panel shows all routes which are currently on your device.

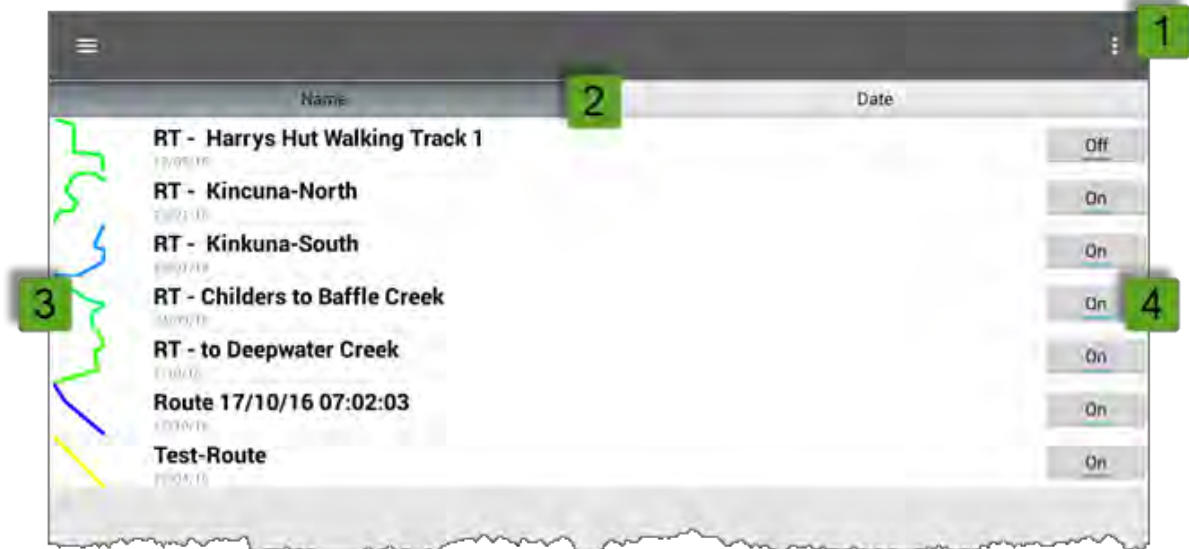
### Tip!

If you do not see any items displayed in the panel, or you do not see specific items that you know should be in the list, it may be that they have been added to a folder. By default, items which are in folders will not appear in this list.



Use the menu button to open the show / hide dialog, and tap the **Show All option** to view all items, regardless of whether they are contained within a folder or not. You can reverse the view and hide all items stored in folders using the **Hide Filed Items option** on the show/hide popup.





From the Routes List panel, you can:

1. Tap the menu button to show or hide filed items (ie. any routes which are assigned to **Folders**).
2. Sort the list of routes in Name or Date order by tapping the appropriate header
3. Change the route line colour for a given route in the list by tapping the route thumbnail
4. Switch route visibility on or off

Off

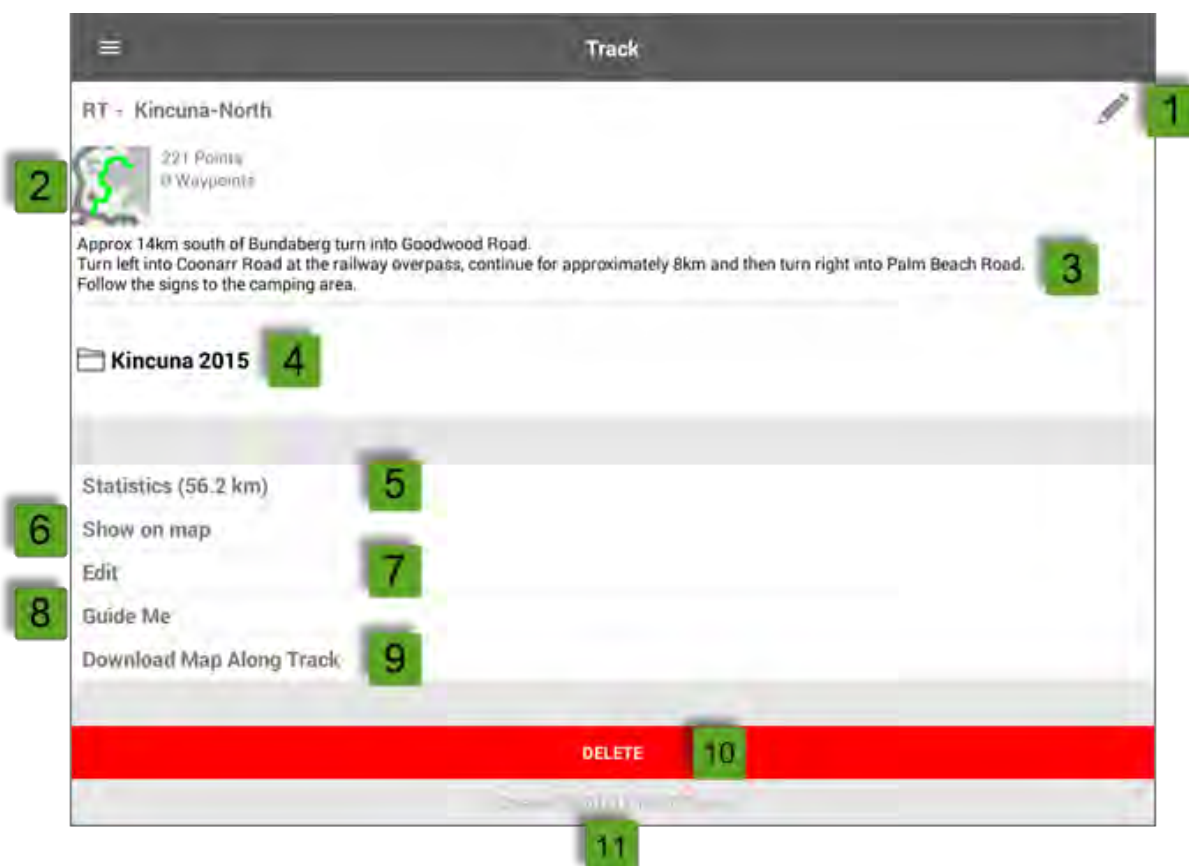
On

If the **On button** is switched on for a particular route, then that track will be shown on the map panel. This allows you to hide whichever routes are not of interest to you at that time.

If the **Sync Data option in the Settings panel** is switched on, then routes shown in the Routes List panel are also synced to your Cloud account.

### Route Details panel

From the Routes List panel, tapping a particular track will open the **Track Details panel** for that track.



From the Route Details panel, you can see / do a number of things:

1. Opens the **name / notes edit panel** - change the name and add or edit notes pertaining to the route.
2. See a larger preview of the route by tapping the map preview thumbnail.
3. Opens the **name / notes edit panel** - change the name and add or edit notes pertaining to the route.
4. Add the route to a folder (if the route is already in a folder, the name of the folder is displayed here)
5. View statistics related to the route
6. Show the route on the main map panel
7. Edit the route
8. Guide Me will start navigating to the first point in the route or track. See the [section on Following a Route](#) further down this topic.
9. Download Map Along Track will download tiles in the currently active layers to cover the path of the track or route.

See the section on Downloading maps along a track in the Downloading Maps section of this user guide for further information.

10. You can delete the route by tapping the red **DELETE button** on the route details panel.
11. The date the route was created is displayed here.

### Editing Routes

Any routes you have saved are visible in the Routes sub-panel of the My Data section of the side panel.

Routes visible in the My Data panel could have come from a number of sources, including:

- a route you created earlier and saved on your device
- a route which you viewed on the Hema Cloud at <http://cloud.hemaexplorer.com.au>, and then copied to your Cloud account, which was then subsequently synced to your device.
- a route which was created in Google Maps (or some similar tool), and saved in KML or GPX format, then imported into your Cloud account, and subsequently synced to your device.



Open the side panel and tap the **Routes button** to open the Routes list.

#### Tip!

If you do not see any items displayed in the panel, or you do not see specific items that you know should be in the list, it may be that they have been added to a folder. By default, items which are in folders will not appear in this list.



Use the menu button to open the show / hide dialog, and tap the **Show All option** to view all items, regardless of whether they are contained within a folder or not.

You can reverse the view and hide all items stored in folders using the **Hide Filed Items option** on the show/hide popup.



Each route has a button next to it which allows you to show or hide the track/route on the map.

**Tip!**

You can edit a route regardless of its show / hide status.

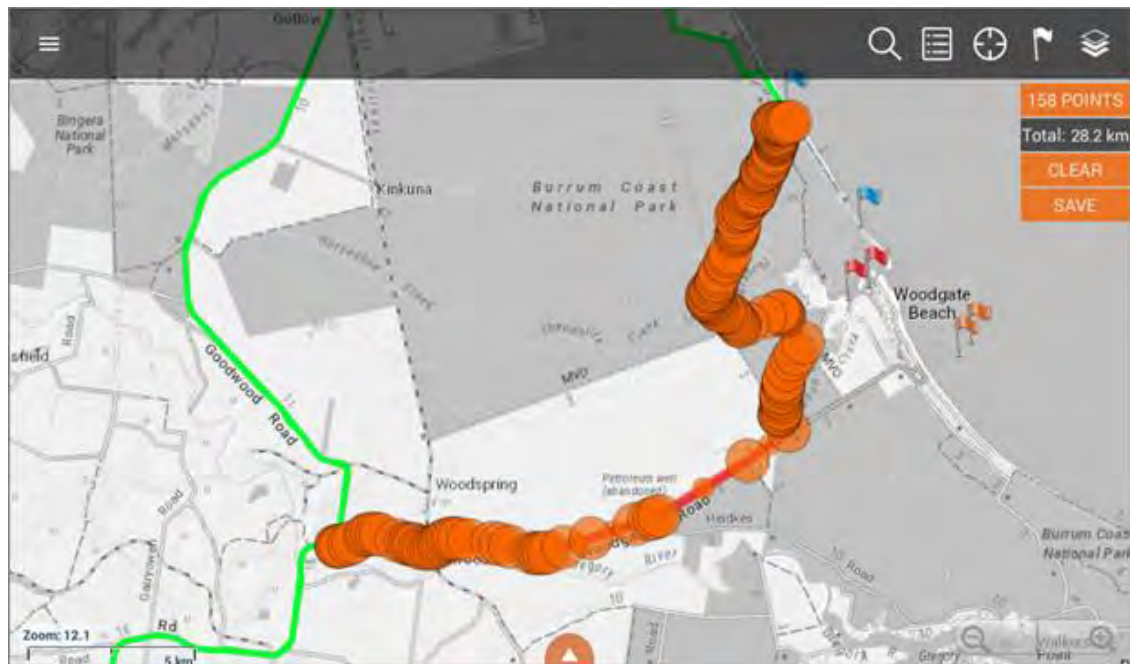
Tap the route you would like to edit. You will see the Route Details panel.

### Editing a Route

When you tap the **Edit button** from the route details panel, the route will open in the map panel.

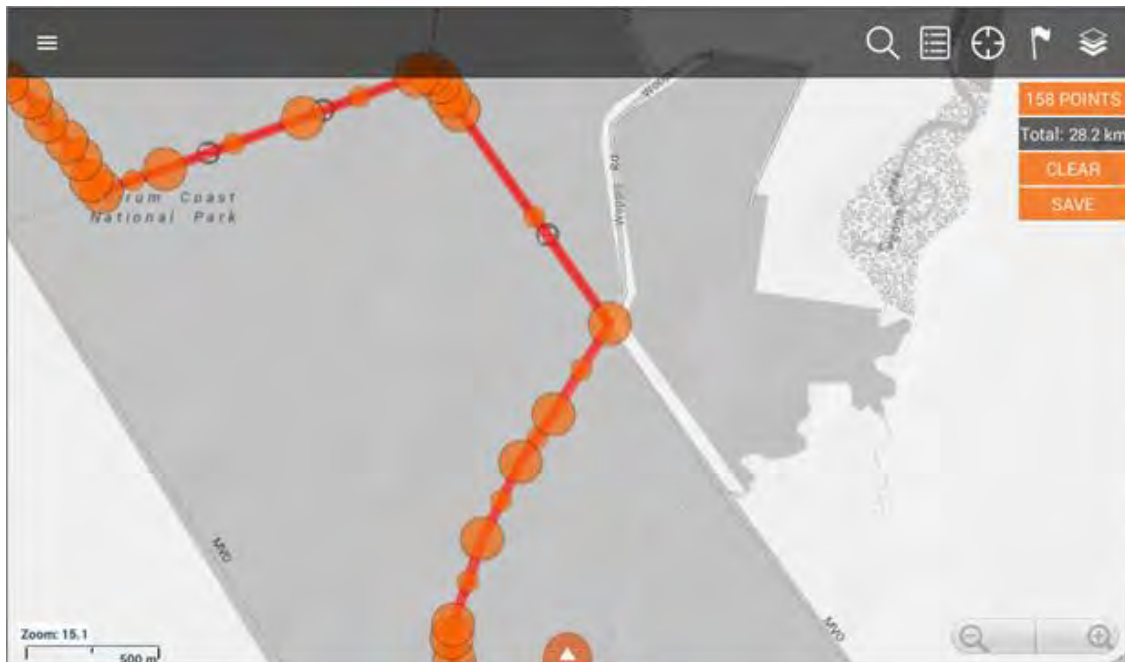
#### For Your Information

The grey version of the map has been used in these examples to improve visibility of certain on-screen features.



All points will be visible, and the Route Control box at upper-right will show the route details.

If you wish to edit any points along the route, it is easier to zoom into the section of the route that you wish to alter, as shown below.



After zooming in so you can easily see the point you wish to alter, tap the desired point to make it active.



Once the point is active, the usual controls appear, allowing you to move or delete the point.

All operations on route points are performed in the same way as when you are in route create mode.

SAVE

After making changes to the route, save your changes by tapping the **Save button**.

---

## Joining Routes

If you are creating a route, you have the option to join it to another route. The other route could have been created by you on your device, or imported or synced via the cloud.

Simply create your new route as per usual.

When the END of the new route gets close to the START of the other route, just tap on the other route. You will be asked if you want to add your new route, which is in the process of being created, to the existing route, as shown below.

|   |     |
|---|-----|
| Add 264 points from Harry's Hut to route? |     |
| Cancel                                    | Add |

Tap the **Add button** to join the two route segments together, or tap the **Cancel button** to stop the join, and continue editing the active route.

### For Your Information

The new route which results from the joining of two routes takes on the "personality" of the existing route.

ie. If you have route "A", and then start creating route "B", when you join the routes, the new "super route" will be route "A".



### Following a Route

You can use the Guide Me function on the route details panel to start navigating to the first point in a route.

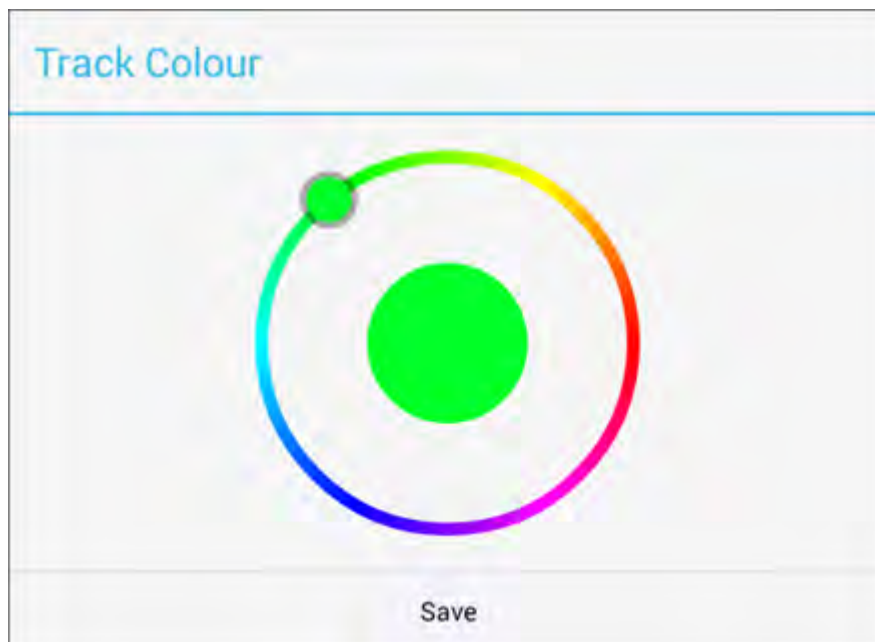
When you choose to start navigating along a route, *Hema Explorer* will create a line between your current position, and the first point in the route.





### Changing a Route's Line Colour

Tap the thumbnail adjacent to an entry in the Tracks or Routes list panels to change the line colour of that item.



Tap-and-drag the dot around the circle to choose your desired colour, then tap the Save button to make your change permanent.

If you change your mind, simply tap outside of the dialog to close it without making any changes.

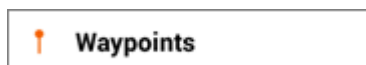
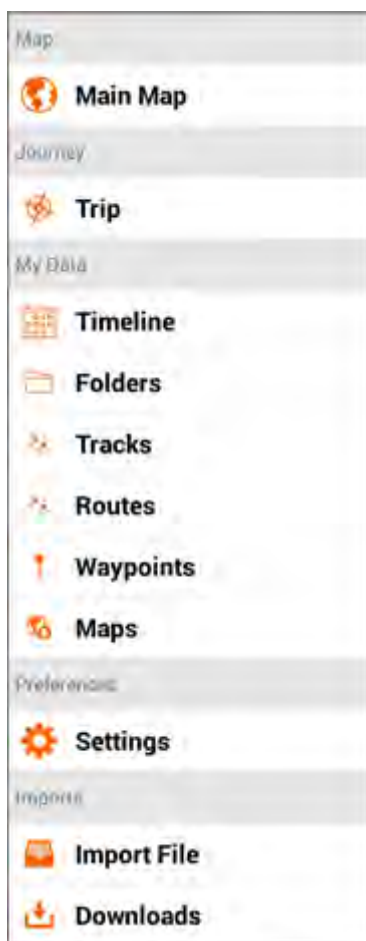
## Waypoints panel

---

Any saved data such as tracks, waypoints and routes can be accessed from the **My Data** section of the pull-out side panel.



To access saved *Waypoint* data, tap the **Side panel button** at the top-left of the screen.



Open the **Waypoints panel** by tapping the **Waypoints button** under the My Data section of the pull-out side panel.



The Waypoints panel shows all waypoints which are currently on your device.

Waypoints in the list can be sorted by tapping the appropriate header into the following order:

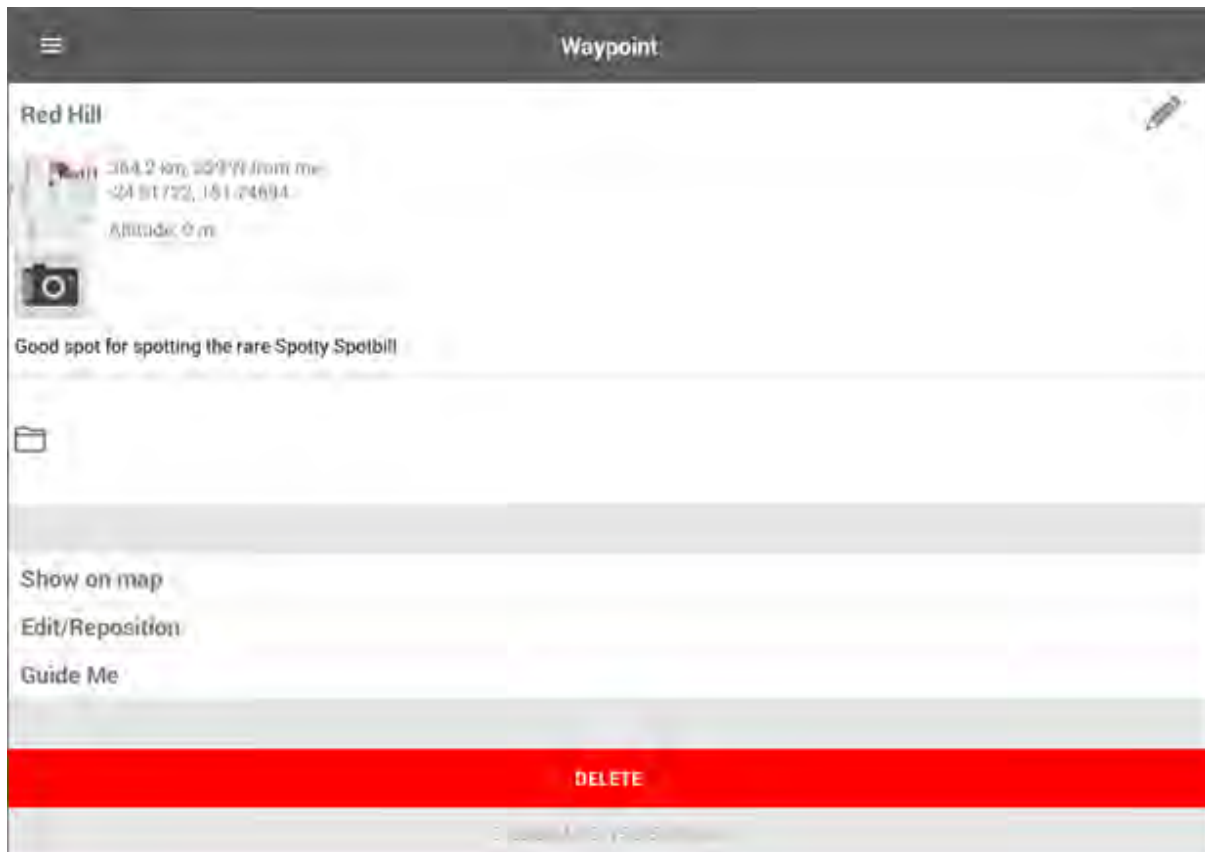
- Name
- Date

#### Waypoint Details panel

Tap a waypoint in the Waypoint panel to open the **Waypoint Details panel**.

#### Note

You can also view a Waypoint's details by tapping the waypoint nametag of a waypoint selected on the map panel.



The Waypoint Details panel shows a number of items related to the selected waypoint.

The top section of the panel shows a number of items related to the selected waypoint:

- Waypoint Name
- Distance and bearing from your current position
- Position
- Altitude
- Any photos which are added to the waypoint (you can add a photo by tapping the Image Capture button)
- Notes
- Assigned folders

The section below that includes functions which you can perform on the selected waypoint, such as:

### Show on Map

Show on map

## Edit/Reposition

A rectangular button with a thin border and the text "Edit/Reposition" in a small, dark font.

This function allows you to edit the selected waypoint details.

See the section on [Editing Waypoints](#) further down in this topic.

## Guide Me

A rectangular button with a thin border and the text "Guide Me" in a small, dark font.

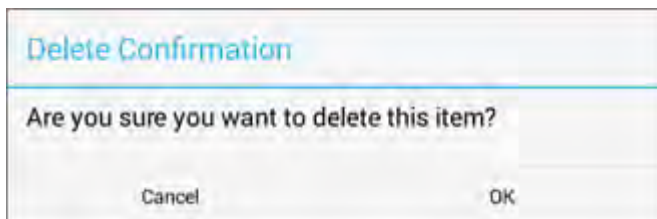
The Guide Me function will guide you to the selected waypoint *as the crow flies*.

## Deleting Waypoints

### Delete

A solid red rectangular button with the word "DELETE" in white, uppercase letters.

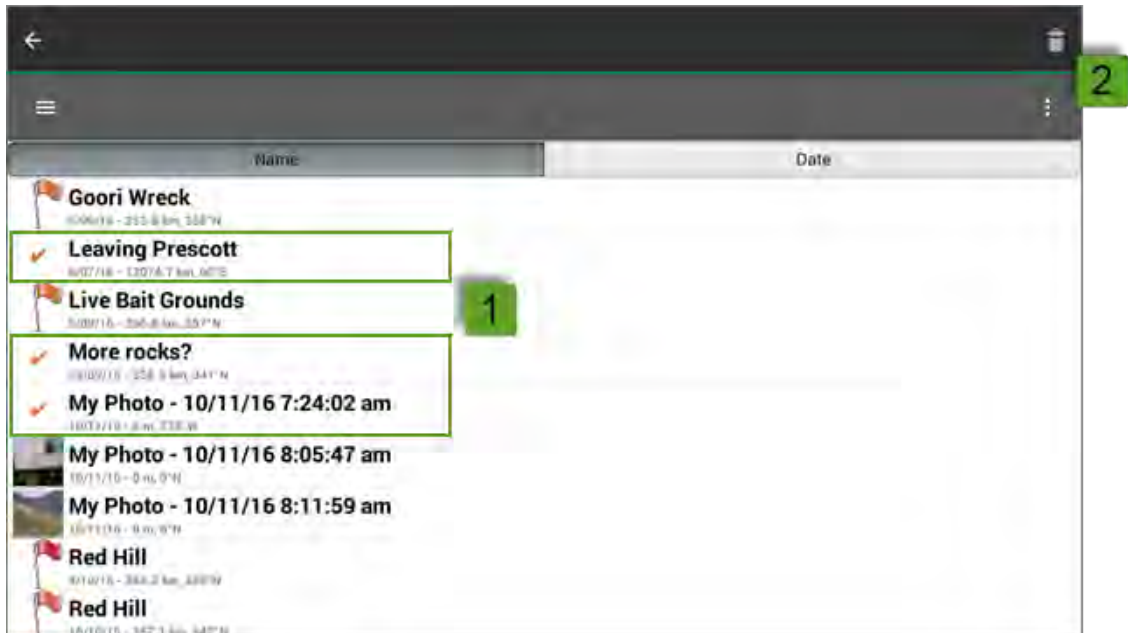
The **Delete button** on the waypoint details panel will delete the selected waypoint. You will be prompted to confirm your action as shown below:



Tap **OK** to permanently delete the selected waypoint. Tap **Cancel** to keep the selected waypoint.

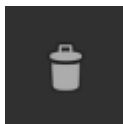
## Deleting multiple waypoints

If you have a lot of waypoints to delete, it can be time consuming deleting them all individually. Fortunately, you can select multiple items, and then delete them all in one go.



1. One the Waypoints panel, tap-and-hold on any waypoint (it would make sense for it to be one that you actually DO wish to delete).

The selected waypoint will display a tick mark on the left to indicate that it is **selected**.



- 2.

Simply tap on any other waypoints you wish to delete in this operation to select them, then tap the garbage can icon at upper-right. This will delete ALL selected items.

### Warning

You will **NOT** be prompted to confirm your action when you tap the garbage can icon, and this action is not reversible. Be sure that what you have selected is exactly what you wish to delete.

### Editing Waypoints

There are 2 methods which you can use to edit an existing waypoint

1. Tapping once on a Waypoint icon will open the POI Nametag. You can then tap the Waypoint handle to open the **Waypoint details** panel, then tap the **Edit button** on the panel.
2. Go to the MyData panel, tap on the waypoint required, which will display the **Waypoint details** panel, then tap the **Edit button**.

Whichever method you use to get to the Waypoint details panel, it will look the same.

### Changing a Waypoint's Name and Associated Notes

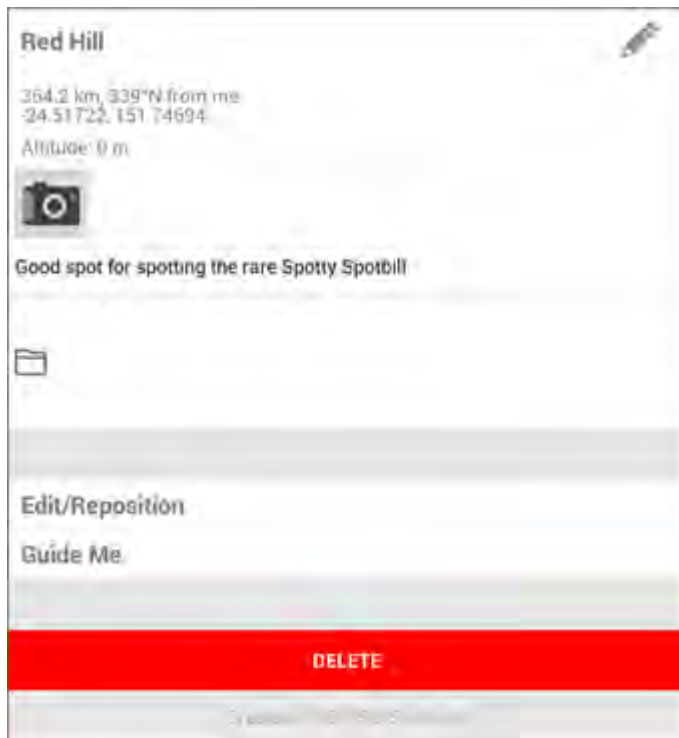
#### Tips on naming your data

It is recommended to give your data (Routes, AND Tracks & Waypoints) a sensible name for future reference, and to aid in identifying Tracks, Waypoints and Routes on your Cloud account, etc.

Here's some suggestions:

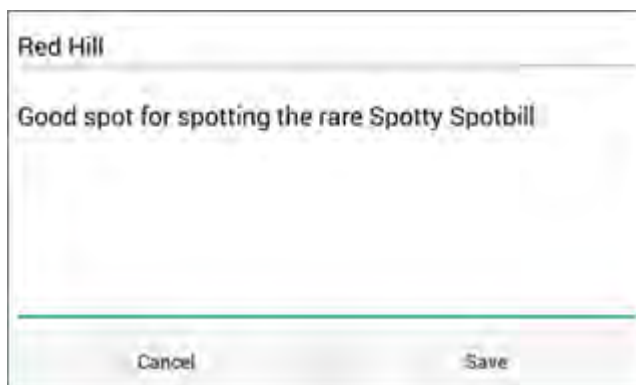
- **Routes & Tracks**
  - rt-Brisbane-to-Roma ("rt" - identifies it clearly as a route)
  - tr-CapeYorkTrip-2013 ("tr" - identifies it clearly as a track)
  - tr-WA-Odyssey
- **Waypoints**
  - Micks\_Secret\_Barra\_Spot
  - Perfect-Campground
  - Nice\_Sunset
  - RareBirdColony
  - 2014-CapeYorkTrip-001-Camp1
  - 2014-CapeYorkTrip-002-TrackJunction
  - 2014-CapeYorkTrip-003-CreekCrossing

You get the idea! It is a bit of effort to name your data initially, but it will be easier to find and use your data later if you give it a good recognisable name right from the get-go. Also, you may recognise the name quite easily, but if you are sharing the data with others, it may not be so obvious



If you wish to edit the waypoint's name or associated notes, tap the **Name** or **Notes** field on the Waypoint details panel.

This will open the **Waypoint Name & Notes Edit panel**, as shown below.



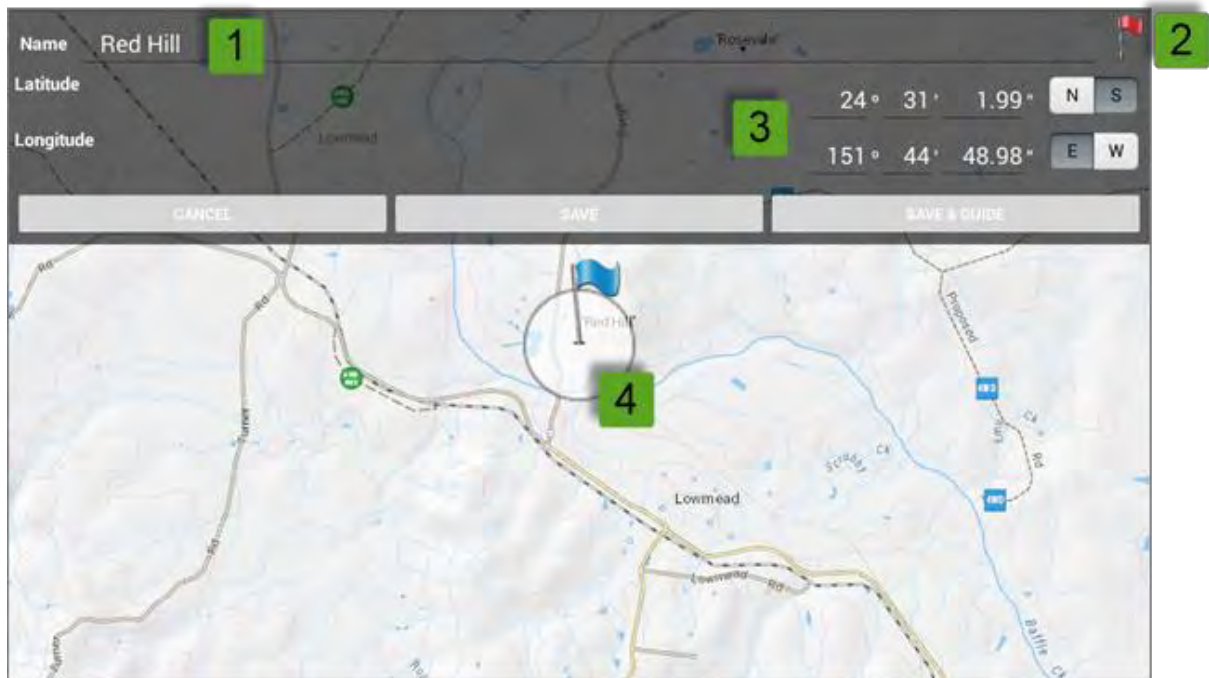
You can modify the waypoint name, and optionally enter some notes to describe the waypoint, or call out safety hazards etc.

When you have finished editing the name and/or notes, tap the **Save button** to make your changes permanent, or the **Cancel button** to exit without saving your changes.



## Edit/Reposition

You can use this function to make further changes to the selected waypoint.



On this screen, you can

1. modify the waypoint name
2. change the symbol used to represent the waypoint on screen by tapping the current symbol, and choosing a new one
3. move the waypoint by directly editing the latitude and longitude (note the format shown here will depend on the [coordinate type setting](#)).
4. move the waypoint to a new location by dragging the waypoint to a new location on the map

Tapping the waypoint symbol displays a panel allowing you to choose which of the available symbols you want for this waypoint.



You also have the following options once your editing is complete:

### Cancel

Exit the Waypoint Edit panel, discarding any changes already made.

## Save

Save the changes to the waypoint.

## Save & Guide

Save the changes to the waypoint, and begin a Guide Me operation to that waypoint immediately after the save operation is complete.

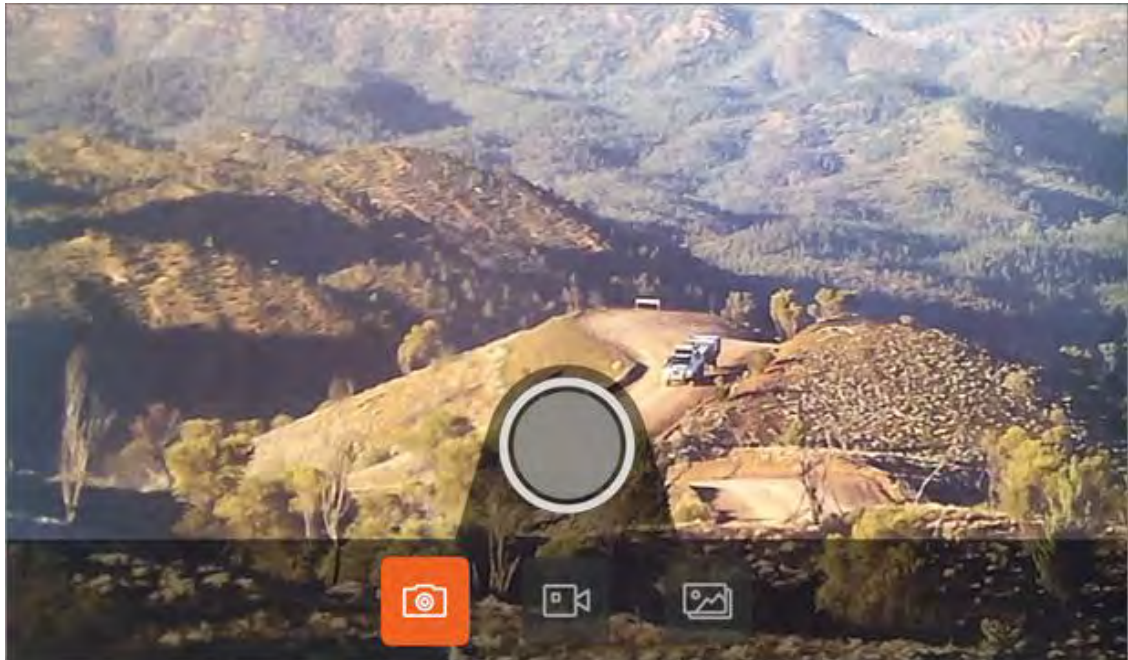
---

## Adding an image to an existing Waypoint

You can attach images to an existing waypoint, or you can use the Take Picture option on the Waypoints menu to create a new waypoint from a picture.



If your device has a built-in camera, then you will see a button on the Waypoint details pane which allows you to take one or more pictures which are attached to that waypoint. The function uses the device's image capture function. The controls shown here may be different to those on your device.



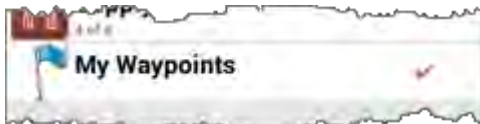
Once the image has been captured, you will see the **Photo Title dialog**, allowing you to enter a name and / or notes for that image waypoint.



The captured image will be stored within the waypoint, and will subsequently sync to your Hema Cloud account.

#### Turning All Waypoints On or Off

You can turn all of your waypoints on or off using the **My Waypoints** option in the **Map Overlays** section of the **Layers** panel.



## Maps panel

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The **Maps sub-panel** is accessed from the My Data panel by tapping the **Maps button**.

It allows you to manage any map sections you have previously downloaded.

It should not be confused with the **Layers panel**, where you can manage the mapping which is "built-in" to the app.

The Maps panel allows you to manage any map areas which you have downloaded. For more information, see the section on Managing Maps in this user guide.

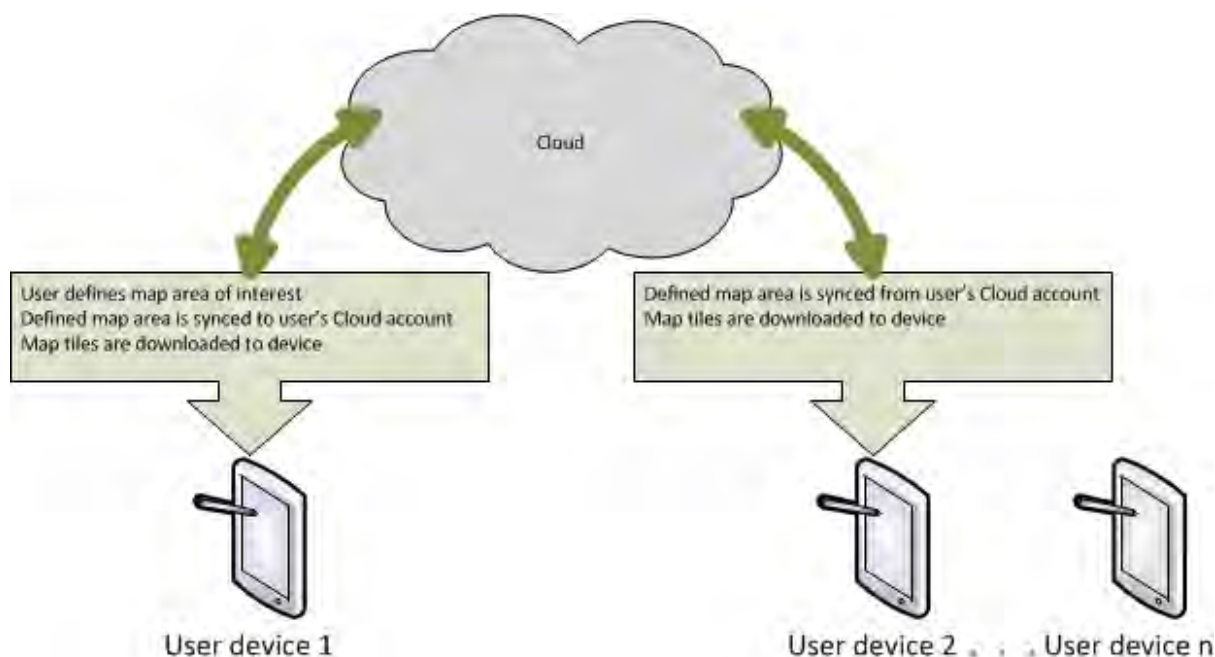
These maps may also have synced from another device.

### About Map Syncing

When you use the Download for Offline feature to download sections of online maps, the area you define is synced up to your Cloud account.

Note that only the area definition is synced UP to your Cloud account (a small piece of data), NOT the map itself (a larger piece of data).

On other devices which sync to your Cloud account, they will sync the map definition DOWN from your Cloud account, and then automatically start downloading the actual map tiles required by the defined map from the map server.



### Accessing the Maps panel



To access the Maps panel, tap the **Side panel button** at the top-left of the screen.



Open the **Maps panel** by tapping the **Maps button** on the pull-out side panel.



The Maps panel shows all downloaded map segments currently on your device. Hopefully, they will have names which allow you to easily identify which are which (you DID give them good names when you downloaded them, didn't you?).

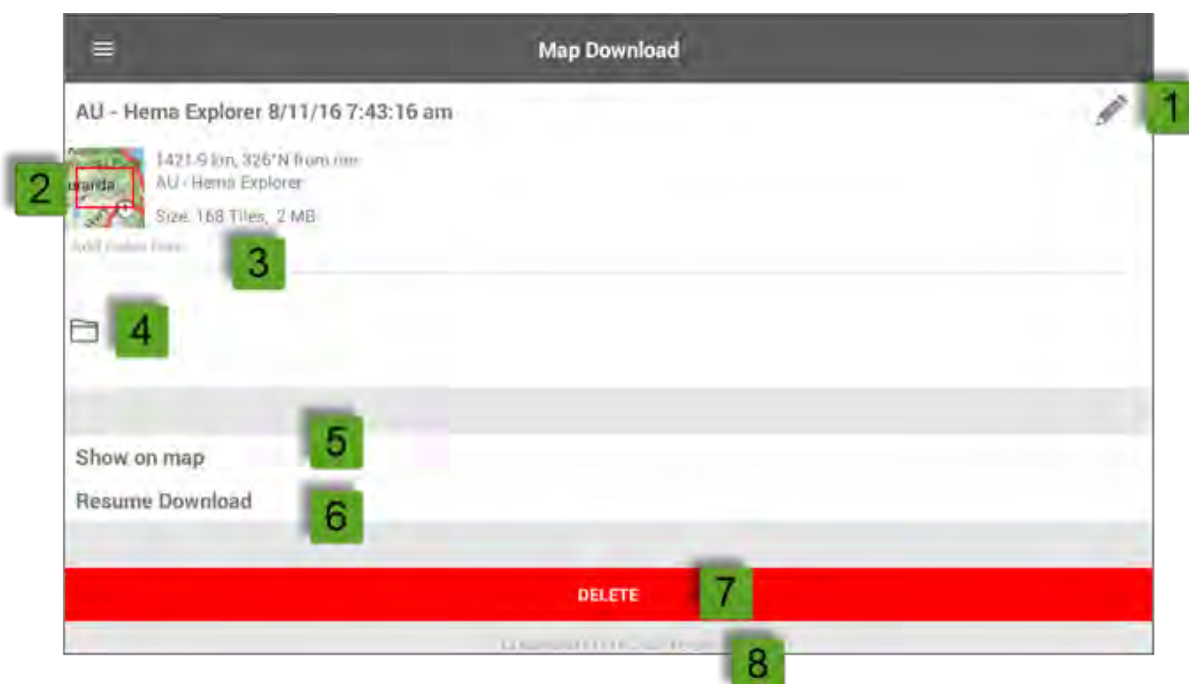
#### Tip!

If you do not see any items displayed in the panel, or you do not see specific items that you know should be in the list, it may be that they have been added to a folder. By default, items which are in folders will not appear in this list.



Use the menu button to open the show / hide dialog, and tap the **Show All option** to view all items, regardless of whether they are contained within a folder or not. You can reverse the view and hide all items stored in folders using the **Hide Filed Items option** on the show/hide popup.

Tap a map from the list, and you will see the map details panel, as shown below.



From the Map Details panel, you can do a number of things:

1. Opens the **name / notes edit panel** - change the name and add or edit notes pertaining to the map.
2. Expand the preview of the map to see more detail.
3. Opens the **name / notes edit panel** - change the name and add or edit notes pertaining to the map.
4. Add the map segment to a folder (if the map is already in a folder, the name of the folder is displayed here).
5. Show the map segment in the main map panel within the app
6. Resume downloading of this map section.
7. Delete the map segment by tapping the **Delete button**
8. The date the map was created is displayed here.

### Deleting maps

#### Deleting a single map

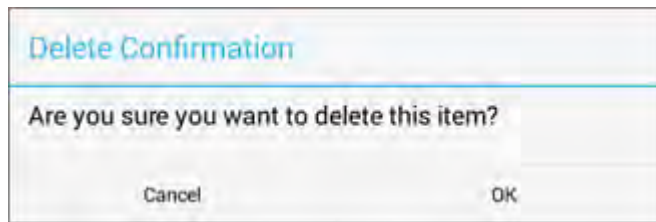
From the map list, tap on the map that you wish to delete. You will see the map details panel.



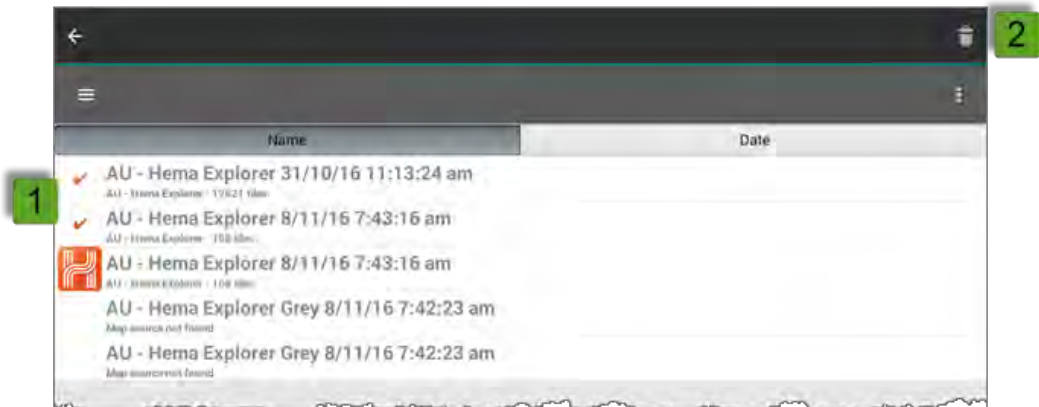
Tap the red **DELETE button**.

You will be prompted to confirm your action.





### Deleting multiple maps



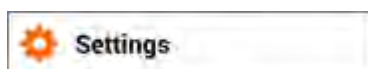
1. On the map list panel, tap-and-hold on one of the map segments you wish to delete.

A tick will appear to the left of the map, and the top bar will appear containing a garbage bin at upper-right.

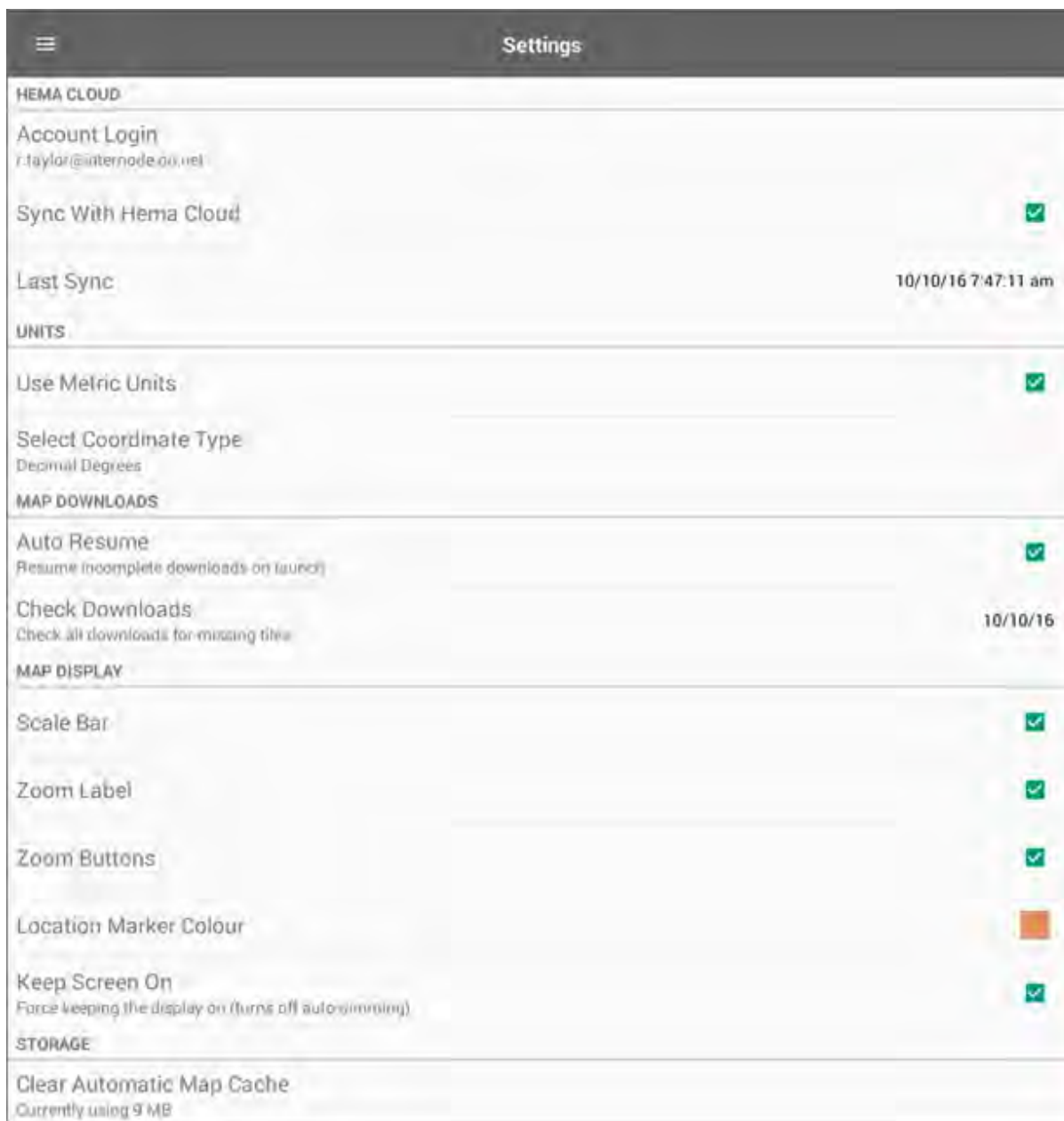
Tap another map which you wish to delete.

2. Tap the garbage can icon. This will delete any map segments which are currently selected with a tick.

## Settings panel



The **Settings screen** is opened by tapping the **Settings button** on the left-hand slide out panel.



The Settings screen is split into separate sections, which group related settings together:

Each section is described below.



## HEMA CLOUD section



The Hema Cloud panel within the Settings screen contains settings and statuses related to **Explore**'s interaction with the Cloud.

### Account Login

If you have an active Hema Cloud account which is linked to the **Explore** app, the username will be displayed here.

If you have not registered your **HX-1**, Account Login will display "Unregistered".

Tapping the **Account Login field** will re-attempt login to the Cloud account displayed here.

### Sync With Hema Cloud option

If this option is active (ticked), then the app will attempt to sync any changed data when it has an active internet connection.

### Last Sync

The **Last Sync button** shows the date / time that the last successful sync operation was performed.

Tapping the Last Sync button will force start a manual sync operation

## UNITS section

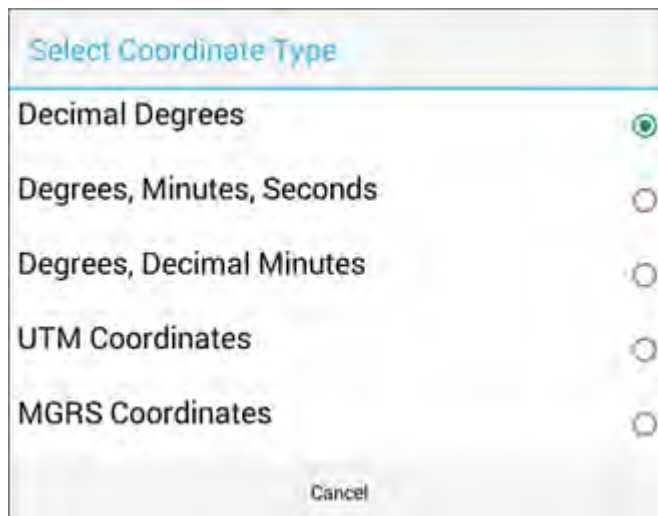


### Use Metric Units

Turn this option ON if you prefer to see speeds and distances etc. in Metric format.

### Select Coordinate Type

Tapping this option will allow you to select from the following list of supported coordinate formats.



Select your preferred format from the popup panel.

### MAP DOWNLOADS section



#### Auto Resume

When switched on, this option will restart any partial downloads when the app starts up.

#### Check Downloads

This option will perform a sanity check on any downloaded maps.

## MAP DISPLAY section



### Scale Bar

This option toggles the visibility of the on screen scale bar.

When active, the screen scale bar is displayed in the lower-left corner of the map panel.

The size and scale shown will vary depending on the current zoom level. The units displayed are determined by the Units settings.



The scale bar appears at lower-left of the map panel, as shown at (1) above.

### Zoom Label

This option determines the visibility of the on-map **Zoom Level indicator**.

When active, the Zoom Level indicator is displayed in the lower-left corner of the map panel.

The Zoom Level indicator tells you at which zoom level you are viewing the current map layer.

**Zoom: 21.0**

The zoom label appears at lower-left of the map panel, adjacent to the Scale Bar (if it is also switched on), as shown at (1) above.

## Zoom Buttons

This option determines the visibility of the on-map zoom buttons.

When active, the zoom buttons appear in the lower-right corner of the map panel.

You can zoom in and out of the map using pinch and unpinch gestures, but sometimes this is inconvenient, for instance if you do not wish to lose your current position while zooming. Tapping the zoom in / out buttons on screen will perform the same function as pinch / unpinch, but will not lose your position fix.



The zoom buttons appear at the bottom-right of the map panel.

## Location Marker Colour

Depending on the colour of the map where you are, you may find the location marker colour gets lost in the background.

This option allows you to change the colour and transparency of the location marker.

Tapping this option loads the Location Marker Colour panel.



1. Drag the indicator dot around the colour wheel to choose the required base colour.
2. Drag the slider under the colour wheel to change the transparency of the marker.

#### For Your Information...

Increasing the transparency of the marker too much may make it difficult to see on some maps.

### Keep Screen On

The Keep Screen on option causes the **Explore** app to keep the screen switched on at all times.

## STORAGE section



### Clear Automatic Map Cache

Over time, the app can accumulate a fair amount of map tile data in the internal cache. This option shows how much space the app cache is currently using.

You can periodically clear the cache using this option.

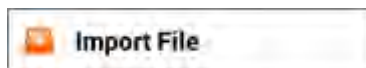
#### For Your Information...

The cache is used for temporary storage of viewed tiles.

It is NOT used for storage of downloaded maps.

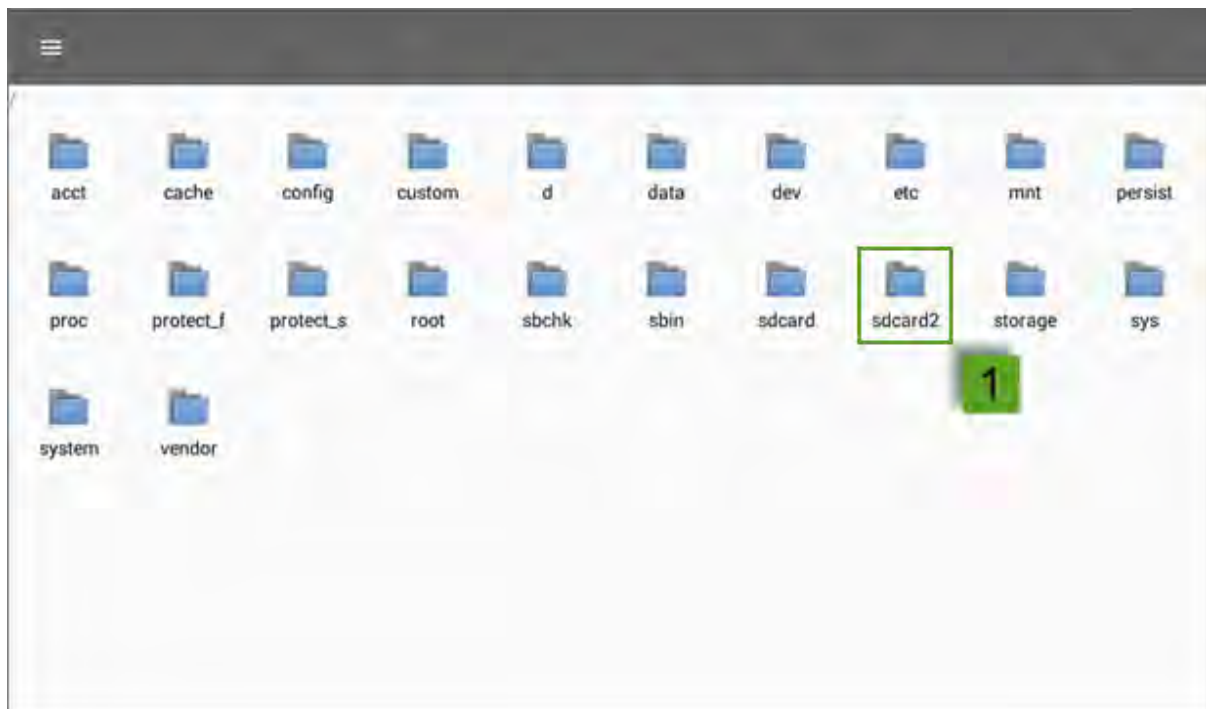
---

## Import File



The Import file function is capable of loading files in both GPX and KML formats.

The **Import File function** will open an explorer-like interface on your device, showing folders located on the storage of the **HX-1**.



You can browse through your device's folders to find a file which has been stored previously.

If you have created or obtained a GPX or KML file from another source, you can copy it to a micro SD card, which can be inserted into the slot on the side of the **HX-1**. When an SD card is installed in the slot, it will show up in the folder browser as **sdcard2** (**sdcard** is the internal storage on the **HX-1**).

Double-tap the file entry to import the desired file.

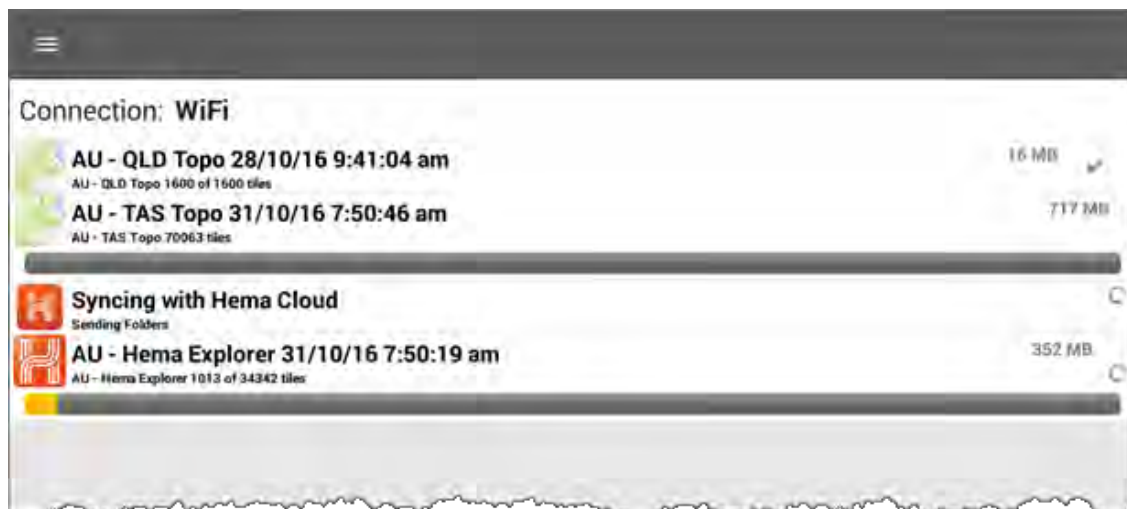
---

## Downloads panel



Tapping the **Downloads button** on the side panel opens the **Downloads panel**.

The Downloads panel shows the status of any queued downloads, as shown below:



Downloads might be can be in one of three states

1. **In-progress** as indicated by the icon shown below



2. **Paused** as indicated by the icon shown below

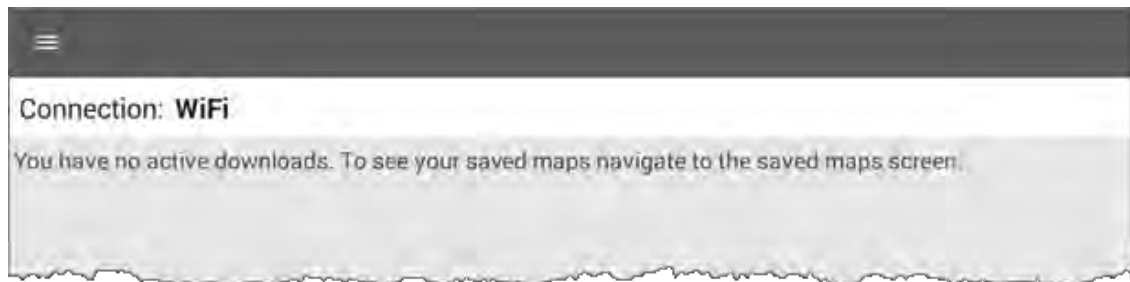


3. **Completed** as indicated by the icon shown below



If there are no active downloads, the panel shows this:

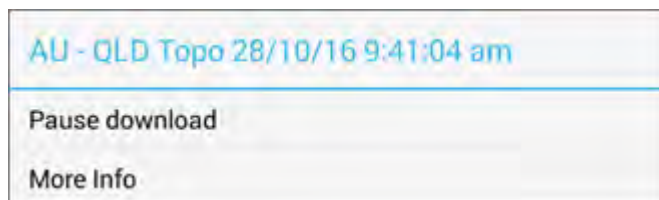




## Pausing Downloads

Any queued downloads can be paused if you prefer to download later.

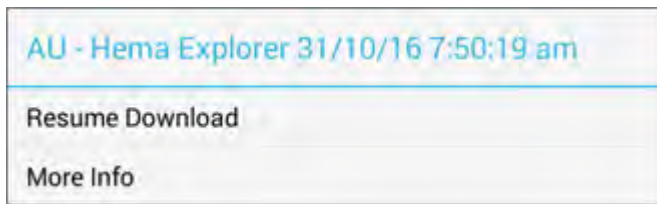
Tap-and-hold an entry in the download list, then tap the **Pause Download** button to pause the download.



The map download entry will display a pause icon while it is in pause mode, as shown at **1** below.



## Resuming Paused Downloads



Tap-and-hold on a paused map download in the list, and tap the **Resume Download button** to continue the download.

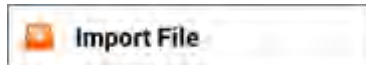
## Removing Queued Downloads

You can remove a download which is queued before it completes (you might have changed your mind about downloading the layer after you queued it up for download).

The simplest way to remove in-progress downloads is to

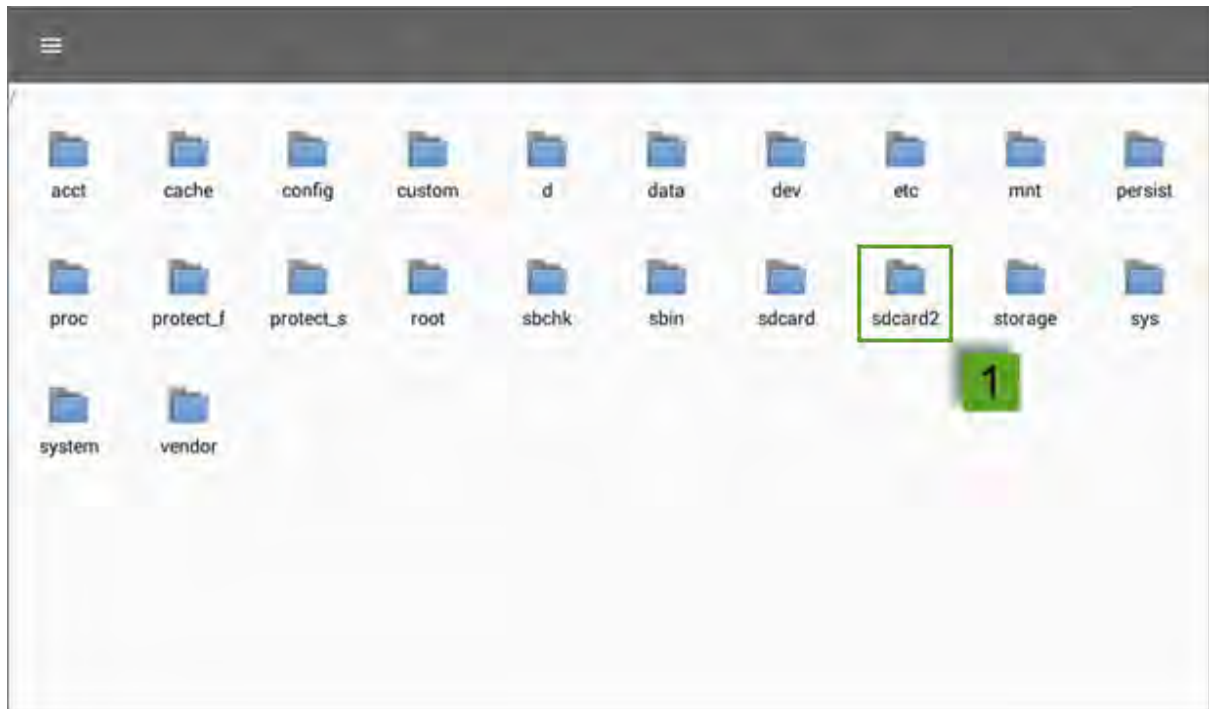
- A. Pause the download the from the Downloads panel
  - B. Delete the map entry from the **My Downloaded Maps panel**
-

## Import File



The Import file function is capable of loading files in both GPX and KML formats.

The **Import File function** will open an explorer-like interface on your device, showing folders located on the storage of the **HX-1**.



You can browse through your device's folders to find a file which has been stored previously.

If you have created or obtained a GPX or KML file from another source, you can copy it to a micro SD card, which can be inserted into the slot on the side of the **HX-1**. When an SD card is installed in the slot, it will show up in the folder browser as ***sdcard2*** (***sdcard*** is the internal storage on the **HX-1**).

Double-tap the file entry to import the desired file.

## POIs

---

### A note about Waypoints vs. POIs

While POIs (Points of Interest) and Waypoints are both used to mark a single specific location, there are some significant differences between Waypoints and POIs:

- POIs are normally supplied by the app developer (usually as part of a package of POIs)
- You cannot usually edit any of a POI's properties (such as position or name) as the properties are set by the creator.
- Waypoints are normally created by the user, or sourced from a friend, or the internet, etc.
- The properties of a waypoints can be edited to suit yourself.

You may occasionally hear of "Rich POIs". Rich POI is a term used to describe a POI which has more information associated with it. An example might be:

- A standard POI shows the location of a camping ground only
- A Rich POI of that same camping ground may show additional information related to the camping ground, such as (to show a few examples):
  - the phone number of the organisation responsible for the campground management
  - a list of facilities available at the campground (drinking water, mobile phone access, etc.)
  - links to the campground website (if available)

### Waypoints vs Route Waypoints

In a lot of GPS software (including **Explore Mode**), there are two differing types of waypoints.

1. Standalone waypoints
2. Route waypoints

Standalone waypoints are those created as single points which are not attached to any other entity within the software.

Route waypoints are those which are created during the course of creating a route, and are attached to the route in question.

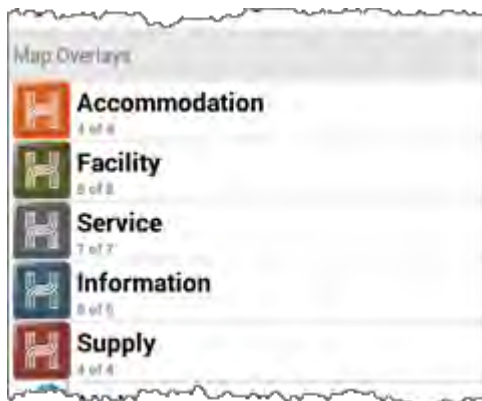
## Introduction

POI display is controlled by the **Map Overlays** section of the **Layers panel**.



Open the **Layers panel** by tapping the **Layers button** at top-right of the screen.

The POI controls are located in the **Map Overlays section** of the Layers panel (along with My Waypoints). Scroll down if necessary to show the controls.



Each section on the panel shows a category. The number shown within the category name indicates how many sub-categories within that category are currently switched on.

By default, all POI categories are active. That is, POIs will be displayed overlaid on the map for ALL categories.

You can turn off specific sub-categories, or ALL POIs within a category from the **Point of Interest panel**.

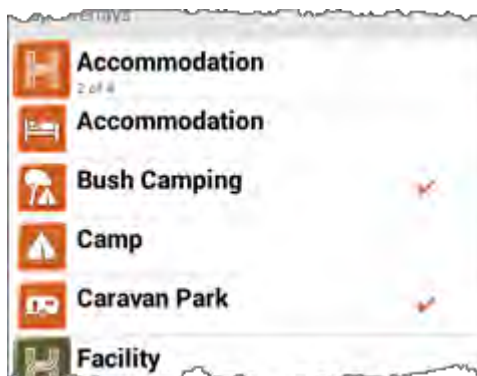
You can toggle the status of each category as a whole by tapping-and-holding on the category name. In the example shown below, we have switched off all but the Accommodation category, as shown by the indicator **4 of 4** for Accommodation. The other categories all show **0 of ...**



Tapping a category expands that category to show the sub-categories within the category. The Accommodation sub-categories are shown in the example below. Note that sub-categories which are switched ON are those marked with a tick.



You can switch off any sub-category by tapping anywhere on the sub-category line. The example below shows the "Accommodation" and "Camp" sub-categories have been switched off. Notice that the tick mark is no longer shown against the switched-off sub-categories, and the number adjacent to the category name shows **2 of 4**, indicating that out of a total of 4 sub-categories, only 2 are active.



## POI Categories

The POIs which come as part of the app are divided into categories and sub-categories. The categories and sub-categories are listed below.

- Accommodation
  - Accommodation
  - Bush Camp
  - Camp
  - Caravan Park
- Facility
  - Dump Point
  - Picnic Area
  - Rest Area
  - Toilet
  - Water Points
- Service
  - Emergency Telephone
  - Mechanical Repairs
  - Medical Centre
  - Police Station
  - Post Office
  - Public Telephone
  - Tyre Repairs
- Information
  - Parks and Wildlife
  - Ranger Station
  - Visitor Centre
  - Visitor Centre - Accredited
- Supply
  - Fuel - 24 Hour
  - Fuel
  - General Stores
  - Roadhouse

A legend can be displayed showing all icons for POI categories and sub-categories.

See the [Legends topic](#) for details.

---

## POI Nametag

Tapping a POI icon will pop up the **POI Nametag** for the POI which you tapped on.



The POI nametag shows the name of the POI. Only ONE POI OR *Waypoint* nametag can be displayed on screen at once.

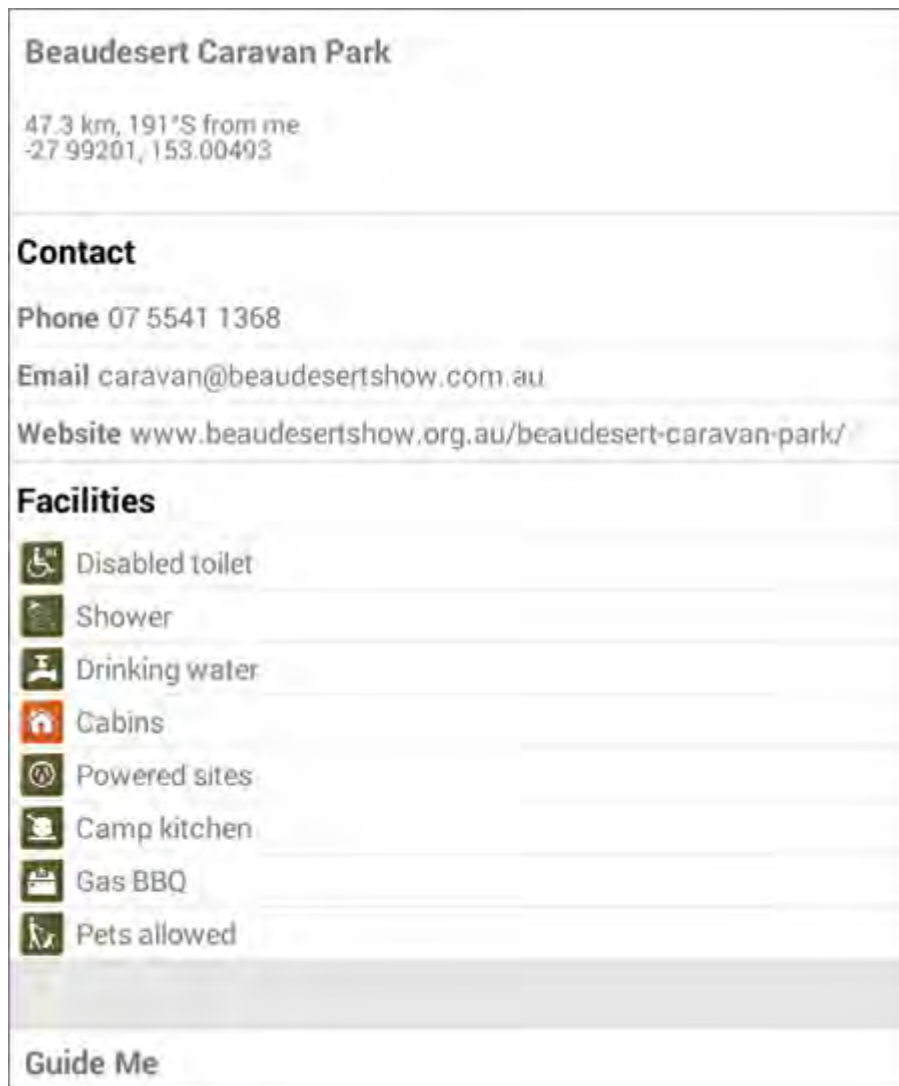
- Tapping the current POI icon again will close the nametag
- Tapping another POI while a different POI nametag is displayed will close the original nametag, and open the new nametag.

Tapping the POI nametag will open the **Point of Interest Details panel**.

---



## Point of Interest Details panel



The Point of Interest details panel displays information related to the selected POI, as well as providing actions which can be performed against the selected POI.

Tapping any of the detail headers shown below will expand the panel to show the relevant detail pane.

- Contact
- Facilities
- Fuel
- Activities

Each of these items is discussed in more detail below.

### Note!

Not all POIs contain data for all categories.

---

## POI Info panel

The top part of the Point of Interest details panel has a pane which displays the following information

### Name

The name of the selected POI

### Position Description

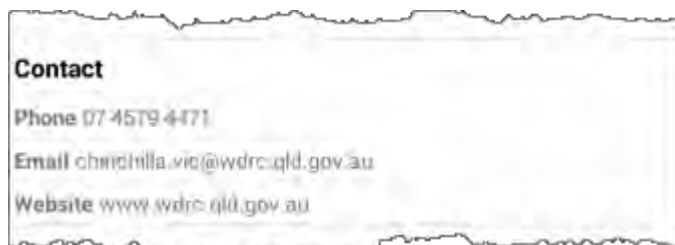
The panel displayed next to the POI Preview shows two lines of information as follows:

- The Distance and Bearing of the POI from your current location (as the crow flies)
- The Latitude and Longitude of the POI

---

## Contact panel

The Contact panel will expand when tapped to display contact information for the selected POI.



The contact information available will depend on the POI selected, but may include some or all of the following:

- **Address**
  - **Phone Number**
  - **Send Email** link (This feature can only be used via an active connection between your device and the internet)
  - **Open Website** link (This feature can only be used via an active connection between your device and the internet)
-

## Activities panel

The **Activities pane** shows activities which may be available at the selected POI. An example is shown below.

---

## Facilities panel

The Facilities panel shows facilities which are available at the selected POI. An example is shown below.



## Fuel panel

The Fuel pane will expand when tapped to display more detailed fuel information for the selected POI.

The pane provides information related to opening hours (if known), and which types of fuel are available at the selected POI. An example is shown below.



## POI Actions



The POI Info pane also contains an option allowing further interaction with the POI.

## Guide Me

The Guide Me option will create an as-the-crow-flies track to follow to get to the POI. This works in the same way as directions to a user-created waypoint.

As soon as you begin the Guide Me process, the active destination will appear in the data panel at the lower-left corner of the screen, as shown below.



The panel shows the following information:

- The distance to the selected POI / waypoint
- The bearing to the selected POI / waypoint
- The approximate travel time to the selected POI / waypoint (based on current speed)
- The name of the selected POI / waypoint

If you do NOT have a **GPS** fix, and you attempt to start a routing operation, the panel will not be able provide any guidance, as shown in the example below.



If you wish to cancel the currently active destination, tap the **Cancel Go To button** within the panel.

## Waypoints

### A note about Waypoints vs. POIs

While POIs (Points of Interest) and Waypoints are both used to mark a single specific location, there are some significant differences between Waypoints and POIs:

- POIs are normally supplied by the app developer (usually as part of a package of POIs)
- You cannot usually edit any of a POI's properties (such as position or name) as the properties are set by the creator.
- Waypoints are normally created by the user, or sourced from a friend, or the internet, etc.
- The properties of a waypoints can be edited to suit yourself.

You may occasionally hear of "Rich POIs". Rich POI is a term used to describe a POI which has more information associated with it. An example might be:

- A standard POI shows the location of a camping ground only
- A Rich POI of that same camping ground may show additional information related to the camping ground, such as (to show a few examples):
  - the phone number of the organisation responsible for the campground management
  - a list of facilities available at the campground (drinking water, mobile phone access, etc.)
  - links to the campground website (if available)

### Waypoints vs Route Waypoints

In a lot of GPS software (including **Explore Mode**), there are two differing types of waypoints.

1. Standalone waypoints
2. Route waypoints

Standalone waypoints are those created as single points which are not attached to any other entity within the software.

Route waypoints are those which are created during the course of creating a route, and are attached to the route in question.

## Introduction

Within the **Explore Mode** app, a waypoint is defined as marking a single specific location.

You can have many waypoints within **Explore Mode**, and you can switch waypoint visibility on and off globally within the app from the Points of Interest panel.

Waypoints can be synced with your Hema Cloud account.

### Tips on naming your data

It is recommended to give your data (Routes, AND Tracks & Waypoints) a sensible name for future reference, and to aid in identifying Tracks, Waypoints and Routes on your Cloud account, etc.

Here's some suggestions:

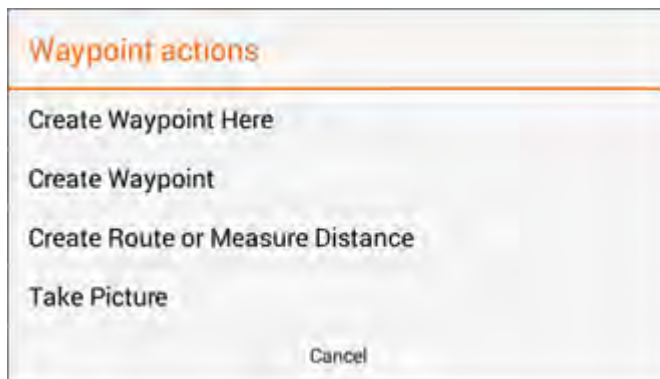
- **Routes & Tracks**
  - rt-Brisbane-to-Roma ("rt" - identifies it clearly as a route)
  - tr-CapeYorkTrip-2013 ("tr" - identifies it clearly as a track)
  - tr-WA-Odyssey
- **Waypoints**
  - Micks\_Secret\_Barra\_Spot
  - Perfect-Campground
  - Nice\_Sunset
  - RareBirdColony
  - 2014-CapeYorkTrip-001-Camp1
  - 2014-CapeYorkTrip-002-TrackJunction
  - 2014-CapeYorkTrip-003-CreekCrossing

You get the idea! It is a bit of effort to name your data initially, but it will be easier to find and use your data later if you give it a good recognisable name right from the get-go. Also, you may recognise the name quite easily, but if you are sharing the data with others, it may not be so obvious

## Adding Waypoints



To mark a waypoint, first tap the waypoint icon. This will popup the **Waypoints menu**.



The menu contains four options:

- [Create Waypoint Here](#)
- [Create Waypoint](#)
- [Take Picture](#)

These options are discussed further down this page.

- [Create Route or measure distance](#)

The create [route](#) option allows you to create a series of waypoints which are linked together in a sequence forming a path to follow.

See the [Routes section](#) for details on creating and using routes.

---

## Create Waypoint Here and Create Waypoint

### Create Waypoint Here

The **Create Waypoint Here** option creates a waypoint to mark your location. The location defaults to your current position. The Waypoint Details panel opens allowing you to enter a Name and / or Notes for your waypoint.

### Create Waypoint

The **Create Waypoint** option creates a waypoint to mark your location. The location defaults to the centre of the map panel (this might not necessarily be your current position), and the Waypoint details window pops up showing details of your waypoint. While the Waypoint Details window is open you can tap-and-drag the pin around to modify its position. Once you are satisfied that the position is correct, you use the buttons on the Waypoint Details window to save your changes.

---



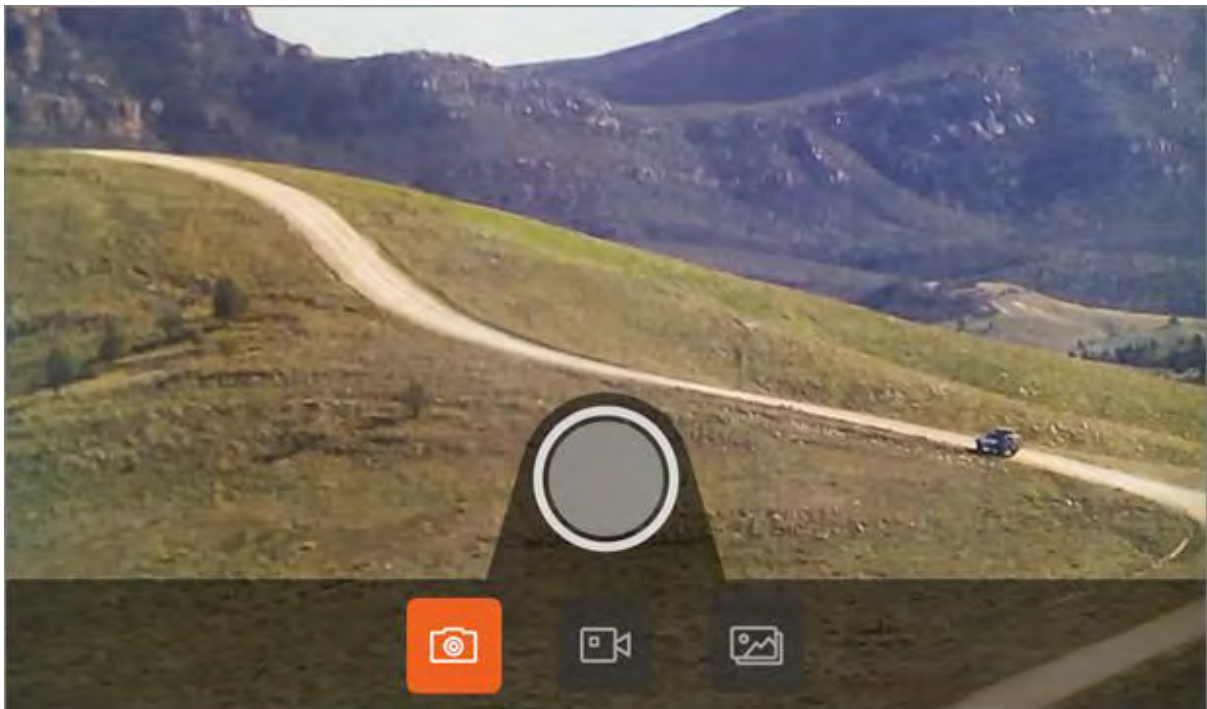
## Take Picture

This option allows you to mark the current location using an image, which is captured within the **Media Manager app**.

### For Your Information

Whenever you use the Take Picture option, a waypoint is created to contain the captured image. An image does not exist in the app "standalone", but **MUST** have a waypoint to contain it.

If you just wish to capture an image outside of the app, use the **HX-1 Media Manager** outside the **Explore** app instead.

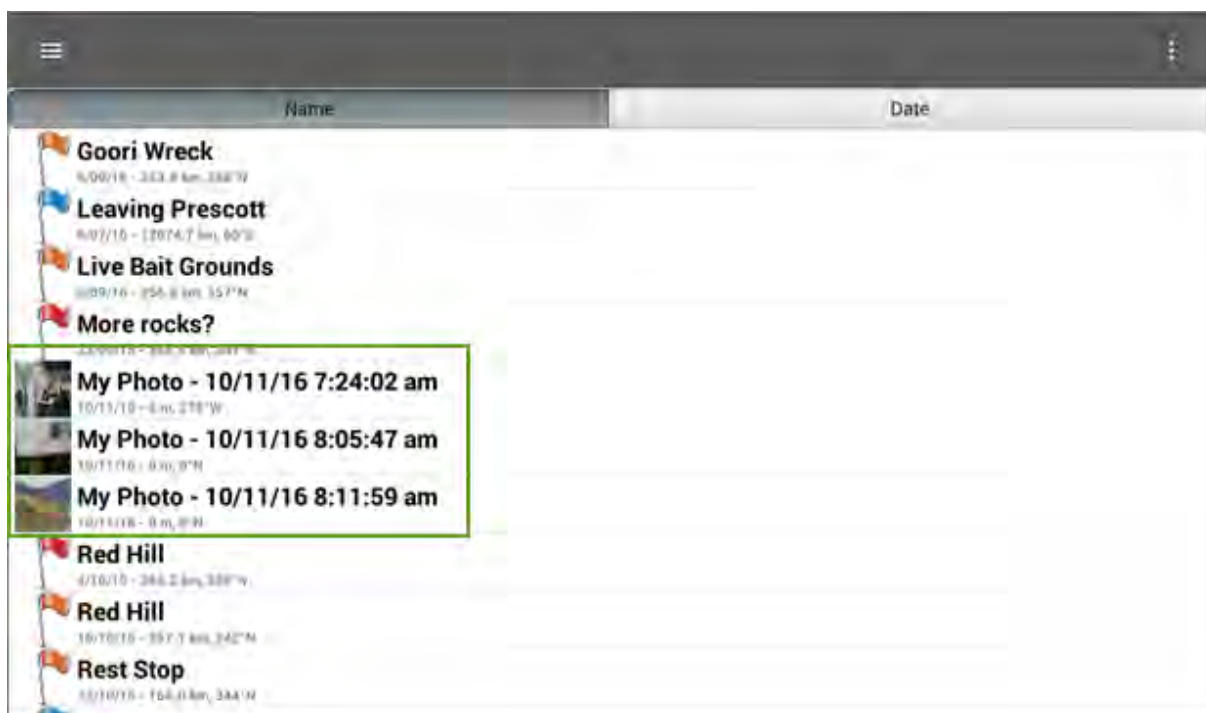


The buttons on the **Image Capture screen** allow you to control the image capture process.

---

Once you have captured an image, the screen will show the Photo Waypoint details panel, where you can enter a Name and / or notes for your Photo Waypoint.

The waypoint containing the captured image will sync to your Hema Cloud account.



Your image will now be accessible in your Waypoints list on the My Data panel. It behaves just like any other (non-image) waypoint. A thumbnail image will be shown instead of a waypoint icon within the Waypoint List panel

#### NOTE

Images captured within the app are stored only within the app. They are NOT available via the normal Media Gallery feature on your **HX-1** device.

## Sorting data

You can sort your data by tapping the desired header button on the list page of the items you wish to sort.

### Tracks list

### Routes list

### Waypoints list

### Maps list

All data displayed on their respective list panels can be sorted in the desired order by tapping the appropriate header button. You can sort items by:

- Name
  - Date
- 
- 

## Waypoint Details panel

You can view details of an existing waypoint at any time by first tapping the **Waypoint icon** (by default the waypoint icon is a **blue flag**).

### Note

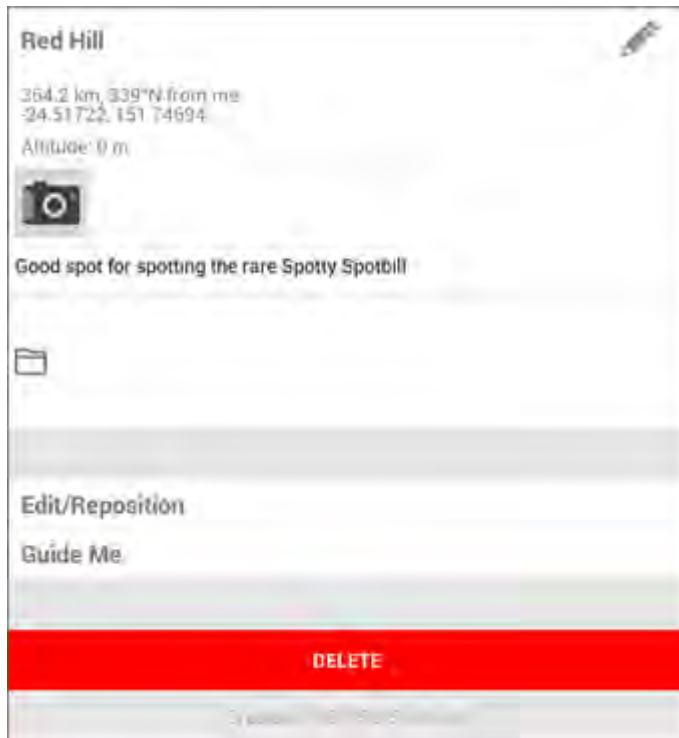
You can also view a Waypoint's details by tapping the waypoint within the **Waypoint panel** from the pull-out side panel.



The Waypoint nametag shows the name of the Waypoint, and the nametag handle. Only ONE POI OR Waypoint nametag can be displayed on screen at once.

- Tapping the current Waypoint nametag or the Waypoint icon again will close that the nametag
- Tapping another Waypoint or POI while a different Waypoint or POI nametag is displayed will close the original nametag, and open the new nametag.

The Waypoint nametag will open the **Waypoint panel** when tapped.



The Waypoint panel displays information related to the selected Waypoint, as well as providing actions which can be performed against the selected Waypoint. The waypoint creation date and time is also displayed at the bottom of the Waypoint panel.

All of these items are explained in the [Waypoints panel](#) section of this user guide.

## Routes

### Introduction

Within the **Explore Mode** app, a route is defined as a collection of Route Points in a sequence. Each route point is connected to the adjacent route point(s) by straight line connections ("as-the-crow-flies").

You can have multiple routes within **Explore Mode**, and you can switch any route between active and inactive states.

Routes can be synced with your Hema Cloud account.

---

### Creating Routes

#### A note about creating routes manually with the *Hema Explorer* app

You can start creating a route by tapping the Waypoint button as shown further down in this section of the eGuide.

You can also tap-and-hold on the map to start creating a route.

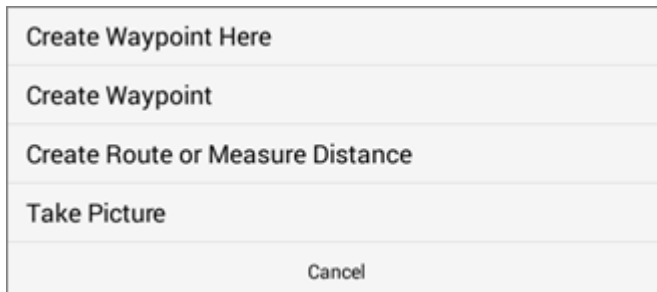
As a general guide, we find the following tips make for the fastest and simplest route creation experience.

- Zoom out a fair way so that you can see your start and end points if possible.
- Add points at the major course changes along the route. (As you add a new point to the route, the app automatically adds a new **mini-handle** halfway along the route segment which was just created.)
- Zoom in to see the detail of your course
- Fine-tune the route by using the mini handles to refine the accuracy of the route.
- You can make the route as detailed or as basic as you like, it's up to you.

The thing is to strike a balance between the time it takes to create the route, and the usefulness of the route as an aid to getting you to your end destination.



Tap the **Waypoint button** on the title bar. The **Waypoint menu** will pop up.



The options available are

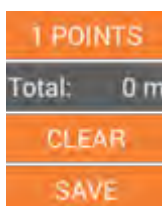
- Create Waypoint
- Create Waypoint Near Me
- **Create Route or Measure Distance**
- Take Picture

Tap the **Create Route or Measure Distance button** on the Waypoints menu to start creating a route.

### Tip!

You can also start route creation by using tap-and-hold on the main map panel.

Once you start creating a route, the **Route control** box opens at upper-right of the screen, as shown below.



The Route control box will always start with 1 point (as you start Route creation by creating a single route point).

The **Route control** is displayed while you are in either **Route Create** OR **Route Edit** mode. The Route control shows

- The number of points contained within the route
- The total distance of the route
- Buttons allowing you to **Clear** or **Save** the current route

By default, the app gives routes a standard name, when saving, of the form **Route (DD/MM/YYYY HH:MM:SS)**. You can leave the default name or change it to suit during the save operation.

### Tips on naming your data

It is recommended to give your data (Routes, AND Tracks & Waypoints) a sensible name for future reference, and to aid in identifying Tracks, Waypoints and Routes on your Cloud account, etc.

Here's some suggestions:

- **Routes & Tracks**
  - rt-Brisbane-to-Roma ("rt" - identifies it clearly as a route)
  - tr-CapeYorkTrip-2013 ("tr" - identifies it clearly as a track)
  - tr-WA-Odyssey
- **Waypoints**
  - Micks\_Secret\_Barra\_Spot
  - Perfect-Campground
  - Nice\_Sunset
  - RareBirdColony
  - 2014-CapeYorkTrip-001-Camp1
  - 2014-CapeYorkTrip-002-TrackJunction
  - 2014-CapeYorkTrip-003-CreekCrossing

You get the idea! It is a bit of effort to name your data initially, but it will be easier to find and use your data later if you give it a good recognisable name right from the get-go. Also, you may recognise the name quite easily, but if you are sharing the data with others, it may not be so obvious

Tap-and-hold on the map anywhere to place a point to start your route, and continue adding points until you are happy with your route.

## The Route Point handle



When you tap-and-hold in Route Edit or Create mode, a **Route Point handle** appears to show the point.

There are a number of parts to the Route Point handle as shown below



The **Point marker** marks the actual point. You can tap-and-drag on the point marker to move the point around on the map.



The **Delete Point button** will delete the active point from the route. If the active point is the only (first) point in the route, then the route creation mode is cancelled. If the active point is between two other points, when deleted, the route line will be drawn directly between the two adjacent points.



The **Point Info indicator** shows some information about the current point. If the point is the first in a route, the indicator will show the distance and *bearing* from your current *position*, as shown above.



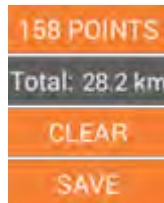
If the active point is the second or subsequent point within a route, an additional Point Info indicator will appear to the right of the other indicator. This extra indicator will show the distance of this point from the previous point, along with the total distance of the route at that point, as shown above.



The **Add Waypoint button** will add the current route point in the route as a waypoint.



Remember, a route is made up of a sequence of route points, which are not the same as "normal" waypoints. Tapping this button on a point leaves that point as a part of the route, but also adds a new waypoint to mark that spot, ***which differs from a normal waypoint in that it is attached to the route being created or edited.***



As you add points to the route, the **Route control** shows how many points make up your route, and the total length of the route.

Each time you add a point, the line joining the previous point to the new point has a mini-handle halfway along its length, as shown below.

If you tap the mini-handle, the point becomes a full blown route point, and is movable and editable in the same way as any other route point. Once a mini-handle is converted to a full point, a new mini-handle appears on the lines adjacent to the new point, where it links to the previous and next points. The new mini-handles can be converted to points as well.



Continue adding points, and refining your route until you are satisfied with the result.

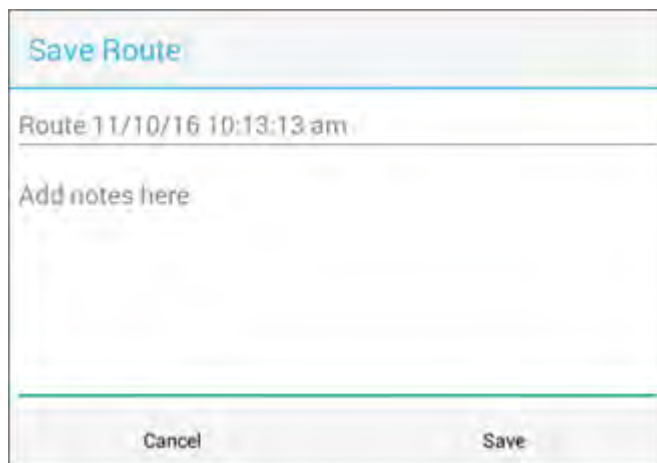
**SAVE**

Once you are satisfied with your creation, tap the **Save button** to save your route in the Route list under My Data.

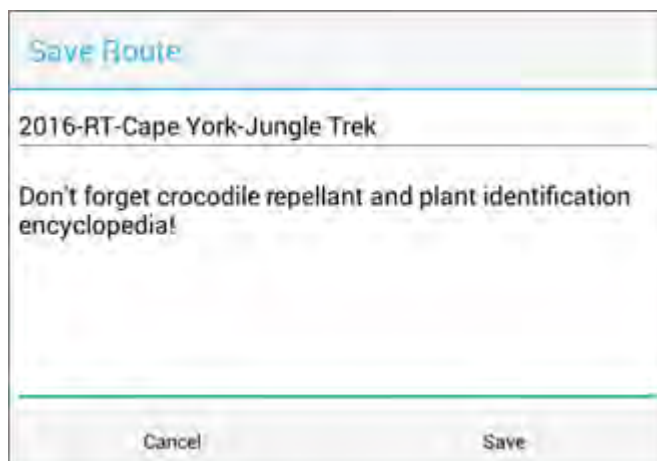
**CLEAR**

If you make a mistake or change your mind, simply tap the **Clear button** to *erase the entire route*, and start again.

Once you tap the **Save button**, you will be prompted to enter a name for your route, and you can add notes as well.



As mentioned earlier, it is good practice to give routes a recognisable name, to make finding them later easier. Add notes if you wish. Once you are satisfied with your entries, tap the **Save button**. An example is shown below.



## Summary

As you can see, creating a route involves a number of steps:

- Opening the create route panel
- Adding points to the route
- Moving points (if they are not in the right place)
- Deleting points (if they are surplus to the route requirements)
- Saving the route, giving the route a name and adding notes if required

---

See the [My Data section](#) of this user guide for further information related to routes in the app.

---

## Legends

### Introduction

Within the *Hema Explorer* app, various symbols are used to mark objects on maps. These may be specific locations (POIs), or things such as roads or demarcation areas on a map.

The app has a number of legends which show the meaning of specific symbols.



Tap the **Legend button** to display the **Legends panel**. The Legends button is located on the app titlebar at the top of the screen.

|                           |
|---------------------------|
| <b>Hema Explorer Map</b>  |
| <b>Points of interest</b> |
| <b>Gazetteer</b>          |
|                           |

There are different legends for different aspects of the app. You can click each legend name below to jump to specific information for that legend.

The legends can be long, but you can tap-and-drag to scroll up and down the legend while viewing it.

The legends available are

- **Hema Explorer Map**

Symbols which are used within the Hema Explorer map layer

- **Points of interest**

Symbols used to differentiate categories and sub-categories of POIs included with the app

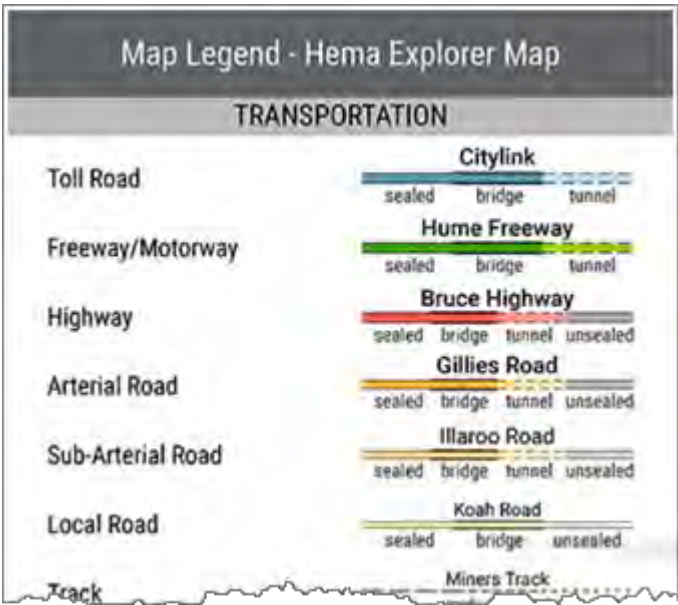
- **Gazetteer**

Standard symbols used to differentiate high-level features which form the searchable *gazetteer*.

Hema Explorer Map

Tap the **Hema Explorer Map label** on the Legends panel to display the **Hema Explorer map legend**.

This legend shows features visible on the *Hema Explorer* map layer.



## Points of interest

Tap the **Points of interest label** on the Legends panel to display the **Points of Interest legend**.

This legend shows all the sub-categories of POIs in the top section, and shows POI characteristics below that.

Characteristics may apply to a specific sub-category of POIs, or they may simply apply to a POI itself. ie. the POI characteristic "Activities" could apply to any POI, regardless of its sub-category.



## Gazetteer

Tap the **Gazetteer label** on the Legends panel to display the **Gazetteer legend**.

The Gazetteer is a standardised database of geographical place names, supplied and maintained by government agencies.

Geographic names include towns, suburbs and roads, plus geographical features such as hills, rivers, and lakes.

The Gazetteer data is imported into the POI database for use within the app.



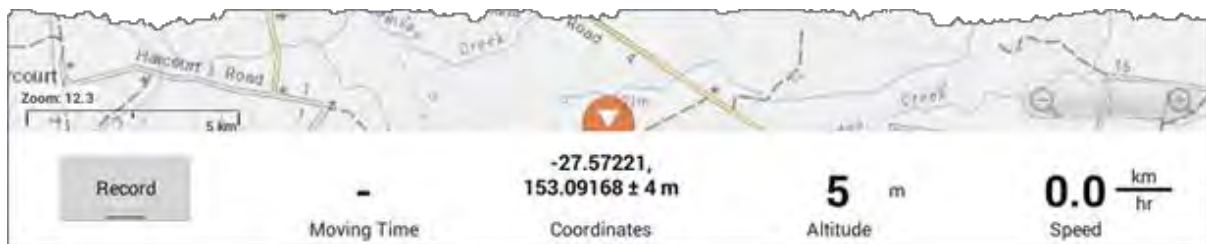
## Data panel

The data panel can display a number of pieces of navigation related data, and you can customise it to suit your needs.

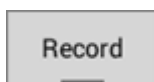


Tap the **Data Panel handle** to open the Data panel.

The Data panel appear along the bottom edge of the screen of the **HX-1**.



### Record button



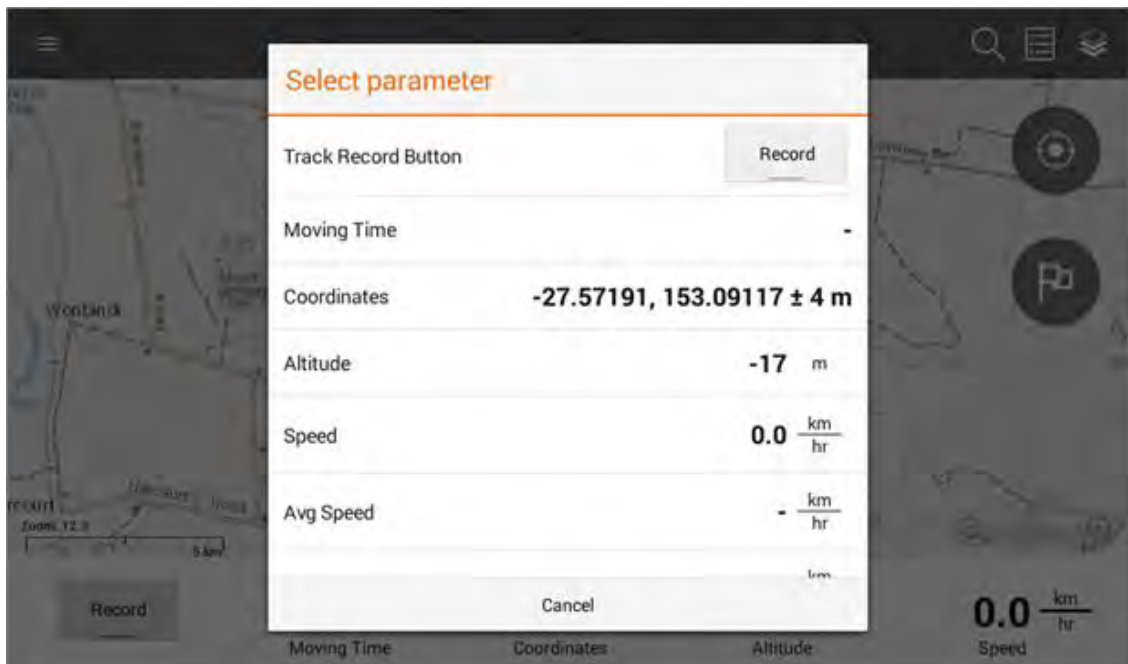
The Data panel has a Record button at left-hand end, which is used to start / pause and end trip recordings (see the [Trip Panel section](#) of this eGuide for more details).

### Customising the Data Fields

Each field position parameter on the Data panel can be changed.

Tap-and-hold on a specific field position, and a list of parameters will appear.





Tap-and-drag to choose the parameter you want from the list, and that field will now display the selected parameter.

Tap the **Cancel button** if you change your mind, and wish to exit without saving any changes.

The parameters available to choose from are:

- Record button
- Position (in the format specified with the **Select Coordinate Type** option under **Settings**).
- Altitude
- Speed
- Avg Speed
- Avg Moving Speed
- Max Speed
- Distance
- Ascent
- Max Altitude
- Min Altitude
- Max Grade
- Min Grade
- Average Pace
- Average Moving Pace
- Moving Time
- Stopped Time
- Total Time

Unit (speed, distance, etc.) will be displayed in whatever unit of measure is specified with the **Use Metric Units** option under **Settings**.

## Routing Sub-Panel

If a routing operation is in progress, either to a waypoint or to a route, an additional sub panel will be added to the data panel, as shown below.



To cancel or stop the Guide Me operation in progress tap the **Cancel button** on this panel.

---

## Searching



The **Search button** is located on the top toolbar of the *Hema Explorer* app.

To enter a search string, tap in the search field. A cursor will appear in the search field

When you enter text in the Search box at the top of the app, the app searches for the entered text within the POI and *Gazetteer* databases.

As you type, the search results are refined. The more characters you type, the more concise the search results which are displayed.



Each search result will display with an associated icon. The icon gives an indication of the source and type of entry.

The *Legends* built in to the app will give you an indication of the category of the search results items.

You can scroll the results list up and down by tap-and-drag.

Once you find the item you want in the list, tap it.

The map will center on the selected location. You may need to zoom in or out to view the area around the location.

An item which is displayed on the map with its nametag displayed behaves in exactly the same way as any other POI or *waypoint*, in that you can navigate to it etc.

---

# PC USB Connection

## Warning!

Be careful of removing content while browsing the **HX-1**'s storage.

Doing so may affect the device's normal operation.

If you are unsure of what you are doing, ask a friend or relative with some technical knowledge to assist you.

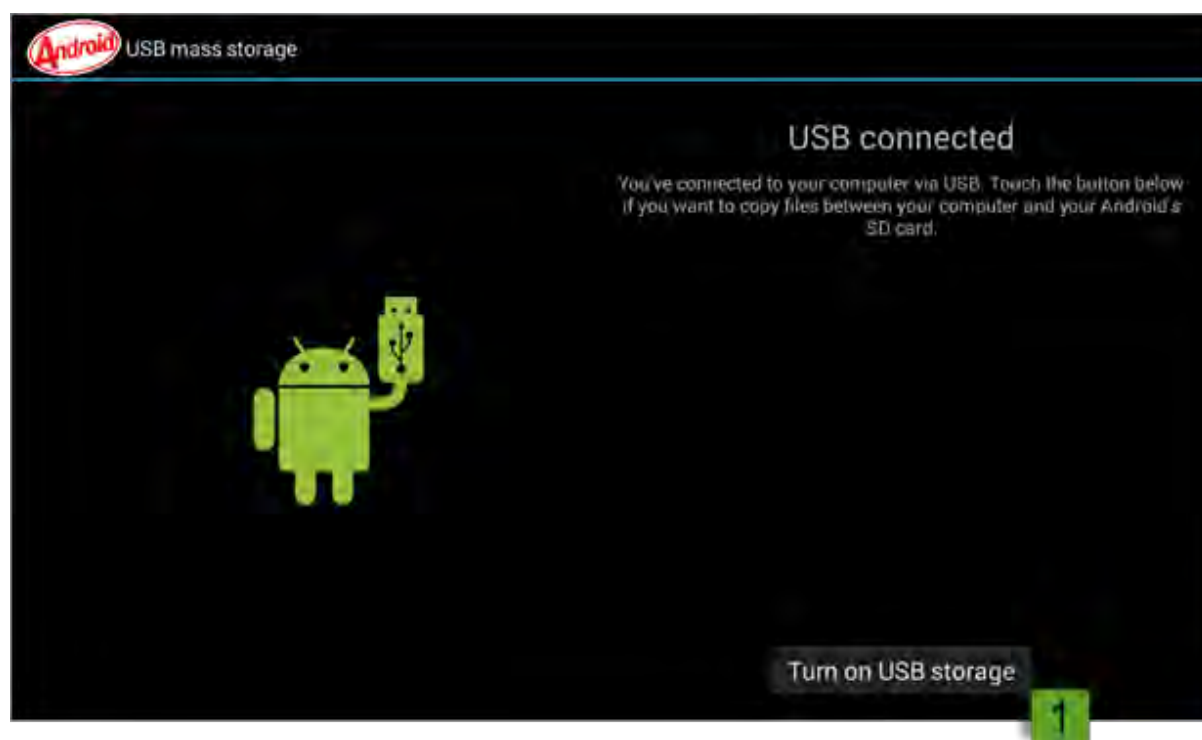
You can connect the **HX-1** to a PC via the USB port to browse the content on the device.

When in USB connected mode, your **HX-1** storage will appear in Windows Explorer or MAC Finder.

The internal storage is an emulated SD card, and will appear in Windows Explorer as a drive letter.

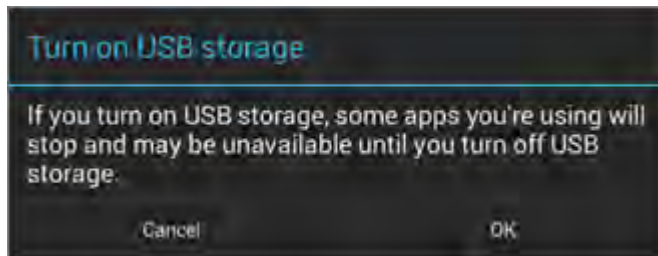
If you have an SD card installed in your **HX-1**, it will also appear under Windows Explorer, with it's own separate drive letter.

When you first plug the **HX-1** into a PC's USB port, the screen below will display,



Tap the **Turn on USB storage button** to make the USB connection active.

You may see a prompt as shown below, warning that you may find apps stop working while connected to the USB port.



Tapping OK will continue turning on USB storage.

The screen will change to indicate that USB storage is now active, and drive letter(s) will appear on a Windows PC showing the content in

- the **HX-1** internal storage
- the SD card (if one is inserted in the **HX-1** SD card slot)



Tap the **Turn off USB storage button** to disconnect the **HX-1** storage device(s) from the PC.

**Warning!**

When you connect the **HX-1** to a PC USB port, the storage compartments within the device are mounted on your PC as drive letters, visible in Windows Explorer.

Any storage devices mounted on your PC are NOT accessible to the **HX-1** or any apps which are running on the **HX-1**.

You should be mindful of this when performing operations like saving or deleting maps from the **Explore Mode** app for example. If you attempt to save or delete a downloaded map segment for example, the operation will not be completed successfully.

The app will not be able to remove the entry for the download under the My Data Maps panel, but the actual map data (which exists on the internal storage will not be deleted, as the app cannot access it while connected to a PC USB port.





# Glossary

## A

**Almanac:** Information about satellite positions (which satellites are where and when). This information is broadcast by all satellites, and contains information for all satellites. It is usually valid for a period of a few months. The information facilitates quicker acquisition of position.

**Altitude:** Height above ground

## B

**Backtrack:** Retracing a previously recorded track in the reverse direction to that originally travelled. Useful if you want to retrace your path to a given destination.

**Bearing:** The direction from your current position to your objective - usually shown in degrees. eg. A bearing of 330 degrees means you should be travelling in a north-westerly direction.

## C

**Calibration (map):** When producing a digital map, an image of the map has specific points defined which correspond to coordinates (latitude / longitude), allowing a position to be plotted on the map.

**Cardinal Points:** The major points of a compass - North, South, East & West. Intercardinal Points are the points between the cardinal points - North-East, South-West, etc.

**Cold Start:** When a GPS is first started after it has not been used for some time, it does not have the current ephemeris data, so is unable to use the satellites until the data is loaded.

**Constellation (Satellite):** The Satellite Constellation refers to the current satellite coverage. ie. the number of satellites in view, which satellites, and where they are in the sky.

**Contour Line:** A line that joins places of equal elevation on a map. The closer together the contour lines shown, the steeper the terrain that they represent.

**Control Segment:** A world-wide network of GPS monitoring and telemetry stations operated by, or on behalf of, the US Department of Defense. The tracking data is used by the Master Control Station at Colorado Springs to calculate satellites' positions (or "broadcast ephemerides") and their clock biases.

## D

**Dead Reckoning:** Navigating by noting the distance, direction and speed of travel, without using any external reference points.

**Degrees:** A circle contains 360 of them! Can be used to specify direction - West is 270 Degrees. Can also be used to specify position - The equator is at 0 Degrees North and South. Brisbane is approx. 27.4679 degrees South.

**DGPS:** DIFFERENTIAL GLOBAL POSITIONING SYSTEM. Uses a fixed station to broadcast correction information in an effort to reduce various errors to increase accuracy of position.

**Digital Map:** A map which is electronic, as opposed to a paper map. Usually means a file containing a map image which has been calibrated.

**DOP:** DILUTION OF PRECISION. Errors arising from satellite geometry. A small number of satellites grouped close together in the sky gives poor accuracy (high DOP), while many satellites more evenly spread provides better accuracy (low DOP).

## E

**Easting:** UTM. Refers to how far East or West you are. In UTM references, it is specified before the Northing. (Horizontally on a map).

**EGNOS:** EUROPEAN GEOSTATIONARY NAVIGATION OVERLAY SYSTEM. A European WAAS system.

**Elevation:** Height above a given reference point; usually mean sea level.

**EPE:** ESTIMATED POSITION ERROR. GPS receivers are never completely accurate. The EPE gives an estimate of how far out the position given may be.

**Ephemeris (correction):** Data which can be used to correct small deviations in satellite orbits. This data is required by GPS receivers before they can access satellites for navigation purposes. See also Almanac.

**Equator:** The imaginary line which divides the northern and southern hemispheres of the Earth. 0 degrees Latitude.

**ETA:** ESTIMATED TIME OF ARRIVAL. GPS works out what time you are likely to reach your destination based on how far you have left before reaching it, and your average progress towards it (VMG). More accurate if the conditions ahead are similar to those already travelled. See also ETE.

**ETE:** ESTIMATED TIME EN ROUTE. Specifies how much time before reaching your destination. See also ETA.

## G

**Gazetteer:** The Gazetteer of Australia provides map-makers and the public with authoritative information on the location and spelling of approved place names. Data is provided by Geoscience Australia (<http://www.ga.gov.au/>)

**GDA94:** GEODETIC DATUM of AUSTRALIA, 1994. Replaced the AGD. GDA is similar to WGS84 for most navigation purposes.

**GDOP:** GEOMETRIC DILUTION OF PRECISION. See DOP.

**GeoStationary Satellite:** A satellite which stays in the same position relative to the Earth.

**GLONASS:** GLOBAL ORBITING NAVIGATION SATELLITE SYSTEM. The Russian navigation satellite system. Consists of 24 satellites, and is optimised for use in the northern hemisphere.

**GMT:** GREENWICH MEAN TIME. A worldwide time standard. Close to UTC

**GoTo:** Basic navigation to a waypoint. The receiver generally shows the direction to, distance and probably ETA to the specified waypoint.

**GPS:** GLOBAL POSITIONING SYSTEM. A system which provides precise location based on data transmitted from a constellation of 24 satellites. It consists of three segments: (1) Control Segment, (2) Space Segment, and (3) User Segment.

**GPS Receiver:** An electronic circuit which receives signals from GPS satellites and calculates information such as the receiver's location.

**GPS Software:** Software which runs on a PC, phone, tablet or other computing device which allows management of things such as waypoints, routes, tracks, digital maps, etc.

**GPX:** GPX (for GP's eXchange) format is a type of file which can be used as a common format for storage of GPS data (such as Waypoints, Tracklogs, and Routes). See [http://en.wikipedia.org/wiki/GPS\\_eXchange\\_Format](http://en.wikipedia.org/wiki/GPS_eXchange_Format)

**Grid Zone (UTM):** An area of the UTM Grid, eg. 55H 10J

## H

**HDOP:** HORIZONTAL DOP

**Heading:** The direction in which you are travelling. Usually specified in Degrees.

## L

**L1 & L2:** The GPS system uses two frequencies for satellite signal broadcasts. L1 is for civilian use. L2 is more accurate, and for military use.

**Lat/Long:** Latitude and Longitude. a grid system which represents your position on the surface of the Earth by angles from the Earth's center.

**Latitude:** Defines how far North or South of the Equator you are. See also Parallels.

**Longitude:** Defines how far East or West you are relative to the imaginary line (the Prime Meridian) which runs through Greenwich, England.

## M

**Mercator:** A way of projecting a spherical Earth onto a flat surface (such as a map).

**Meridian:** A line of Longitude. Half circles which join North Pole to South Pole.

**MGA:** MAP GRID of AUSTRALIA. For most GPS navigation purposes, equivalent to UTM.

**MGRS:** MILITARY GRID REFERENCE SYSTEM. An extended version of the UTM system used by military forces.

**Mil:** A way of measuring angles (like Degrees). There are 6400 mils in a circle, whereas there are 360 Degrees in a circle.

**Minutes:** 60 minutes subdivide a Degree. The actual distance covered by a minute depends upon where you are in the world (not related to the time unit).

**Moving Map:** A Digital Map which has been calibrated, showing your position in real time as you change location.

**MSL:** MEAN SEA LEVEL. The average level of the sea. Not the same world wide.

**Multipath:** Interference caused by reflected GPS signals arriving at the receiver, typically as a result of nearby structures or other reflective surfaces. Errors caused by multipath interference reduce the accuracy of the receiver.

## N

**North (Grid):** North according to your map's UTM gridlines.

**North (Magnetic):** North according to a compass.

**North (True):** North according to where the North Pole is.

**Northing:** UTM. Refers to how far North or South you are. In UTM references, it is specified after the Easting. (Vertically on a map).

## O

**Odometer:** Records distance as you move. Most cars have one. Similar to a Trip Computer.

**Outage:** A loss of satellite availability, due to (a) there not being enough satellites visible to calculate a position, or (b) the value of the DOP indicator is greater than some predefined value (which implies that the accuracy of the position is unreliable).

## P

**Parallels:** Lines of Latitude.

**PDOP:** POSITIONAL DOP. (same as GDOP)

**Position:** The 3D coordinates of a point, usually given as Latitude, Longitude, and Altitude.

## R

**Re-Radiating Antenna:** A type of GPS antenna which receives the signal, transmits it along a wire connection, then re-transmits the signal via another antenna attached to the end of the wire.

**Regional Denial:** The term refers to where a GPS signal's coverage can be reduced or eliminated over a specific geographic area.

**Road Lock:** This term refers to GPS software which "snaps" the vehicle position to the nearest road even if the computed position shows the vehicle as not being on that road.

**Route:** A collection of waypoints linked together which are followed in sequence.

## S

**Scale:** The ratio of a unit on a map to reality. eg. 1:25000 (1:25k), means one centimetre on the map equates to 25000 centimetres (250 metres) in reality. Small-scale maps are 1:1M, 1:250k, 1:100k etc. Large-scale are 1:25k etc.

**Seconds:** Subdivision of a minute (Lat/long) into smaller units. There are 60 seconds in a minute.

**Space Segment:** The part of the GPS system in space, including the orbiting satellites and their signal transmissions.

**SSID:** SSID is simply the technical term for a Wireless network name. When you set up a wireless home network, you give it a name to distinguish it from other networks in your neighbourhood. You'll see this name when you connect your computer to your wireless network. It is wise to create your own SSID on your home WiFi, rather than leaving the default name which your Wireless Router / Modem chooses for you.

## T

**Turn-by-Turn:** Turn-by-Turn navigation generally refers to a navigation system where the software is capable of creating a route for you showing every step of the path between two points. The software usually provides voice guidance, prompts and warnings along the generated route. This type of software has been popularised by hardware devices, such as Garmin, Tom Tom and Navman in-car GPS Navigation devices.

## U

**User Segment:** The part of the GPS system which includes the user equipment, applications and operational procedures.

**UTC:** UNIVERSAL TIME, COORDINATED. The world standard for time, adjusted for different timezones. For all practical purposes, it is the same as GMT.

**UTM:** UNIVERSAL TRANSVERSE MERCATOR. An international standard for describing map coordinates. It is a grid coordinate system that projects global sections onto a flat surface to measure position in specific zones. These zones are 6 Degrees wide and are stepped along the equator such that each zone corresponds to a north-south strip of the earth.

## V

**Velocity:** Speed and direction.

**VMG:** VELOCITY MADE GOOD. Shows how quickly you are travelling toward your objective. This usually less than your current speed, unless you are heading directly towards your objective.

## W

**WAAS:** WIDE AREA AUGMENTATION SYSTEM. A system which is similar to DGPS, although more advanced. It is also a system used to help reduce the number of GPS errors, and thus the accuracy.

**Warm Start:** When a GPS receiver starts up after having been used a relatively short time ago (within a few hours), it still has valid ephemeris data, and thus know exactly where the satellites are. A warm start generally means the GPS will find it's location quicker.

**Waypoint:** A coordinate that represents a position that a vessel, aircraft, vehicle or person has to navigate to, with the aid of GPS.

**WGS:** WORLD GEODETIC SYSTEM

**WMS:** WAAS MASTER STATION. Works out signal error, and broadcasts it back to satellites.

## X

**XTE:** CROSS TRACK ERROR. Specifies how far you are off course by distance when heading towards an objective.

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