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How To Videos:

Use the QR codes below to watch our range of “How To” videos for Standard & Premium Navigation systems



Standard Navigation Videos



Premium Navigation Videos

1 Getting Started

This navigation box is optimised for in-car use.

Free Map Updates

When you start using the product you can download maps for free in the 1 next year.

Accessing and Switching between Street and Hema 4WD Nav

1. When you are in the navigation, you can exit the current nav by pressing the “Exit” button (shown below)



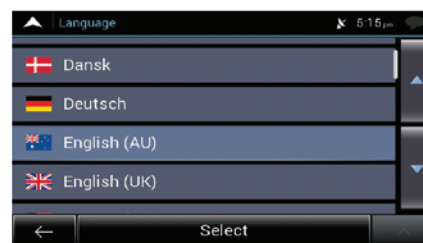
2. This will open the Navigation Selection screen. From here you can select which Navigation you would like to use



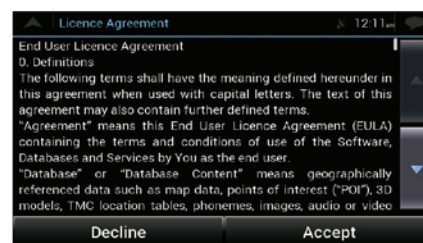
1.1 Initial set-up

When using the navigation software for the first time, an initial set-up process starts automatically.

1. Select your preferred language, then tap **Select** to confirm your selection. Later you can change it in Regional settings (page 80).



2. Read the end-user licence agreement, and tap **Accept** if you agree with the terms of use.



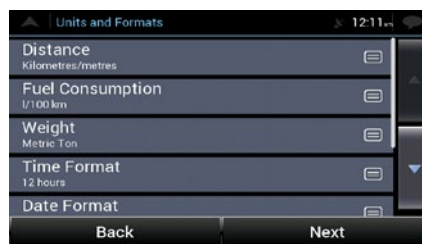
3. You are now asked whether you allow the software to collect usage information and GPS logs that may be used for improving the application and the quality of maps. Tap **Yes** to allow the anonymous statistics or disable this function. Later you can turn them on or off individually in Usage report settings (page 81).

4. The Configuration Wizard starts. Tap **Next** to continue.

5. Select the language and speaker used for voice guidance messages. Later you can change it in Regional settings (page 75). Tap **Next** to continue.



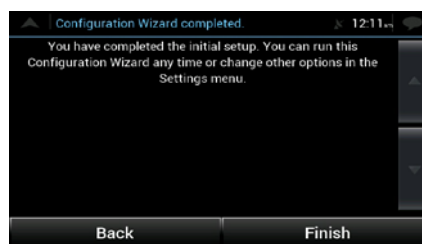
6. If needed, modify the time format and unit settings. Later you can change them in Regional settings (page 80). Tap **Next** to continue.



7. If needed, modify the default route planning options. Later you can change them in Route Preferences (page 71). Tap **Next** to continue.



8. The initial set-up is now complete, tap **Finish** to enter the Navigation view.

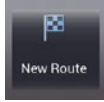


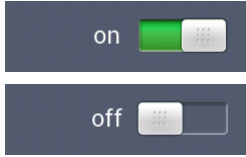




1.2 Screen controls

The following sections describe the functionality and use of buttons, sliders, and other screen controls in HD-G2 blackbox.

1.2.1 Using the buttons and other controls

To operate HD-G2 blackbox, tap the buttons on the touch screen.

Type	Example	Description	Function
Button		Opens a new screen where you can set a parameter.	Tap it once.
Button with value		Displays the current value of a field or setting where the value can be changed. After the change, the new value is shown on the button.	Tap it once.
List		Shows multiple options.	Grab the list anywhere and slide your finger up or down. Depending on the speed of sliding, the list scrolls fast or slow, only a bit or till the end. Alternatively, move between items in a list with the arrows and tap the value that you want to select.
Switch		Shows whether a feature is enabled when there are only two choices.	Tap it to turn the switch on or off.
Slider		When a feature can be set to different values in a range, HD-G2 blackbox shows an indicator on a gauge that displays and sets the value.	Drag the handle to move the slider to its new position. Tap the slider where you want the handle to appear.
Virtual keyboard		Used to enter text and numbers.	Each key is a touch screen button.

The Navigation menu may contain several menu items on one or more pages.



You need to confirm selections or changes only if the application needs to be restarted, if it needs to perform a major reconfiguration, or if you are about to lose some of your data or settings. Otherwise, HD-G2 blackbox saves your selections and applies the new settings without confirmation as soon as you use the controls.

1.2.2 Using the cursor

You can select a map location in the following ways:

- By tapping the map when navigating
- By tapping the map when you are asked to confirm the destination at the end of a search.




When a map location is selected, the cursor () appears at the selected point on the map.








The location of the cursor can be used as the destination of the route or a new Alert Point. You can also search for Places around it or add this location to your saved locations.

You can also select some of the objects on the map. If you tap the map at the icon of a Place or traffic event, the object is selected, and you can get information about this object or use it as a route point.

1.2.3 Using the keyboard











You can type with your fingertips on the screen keyboards and you can switch between various keyboard layouts, for example English, Greek or numerical. Only those keyboard buttons are active that can be used to type a name that is available on the map. The other keys are greyed out.

Action	Function
Switching to another keyboard layout, for example from an English keyboard to a Greek keyboard	Tap  and select the new keyboard layout from the list.

Correcting your entry on the keyboard	<p>Tap  to remove the unnecessary character(s).</p> <p>Tap and hold the button to delete several characters or the entire input string.</p>
Entering a space, for example between a first name and a family name or in multi-word street names	<p>Tap the  button at the bottom centre of the screen.</p>
Entering upper and lower case letters	<p>By default, when entering a text, the first character appears in upper case while the rest of the text is in lower case. Tap  to enter an upper case letter or tap it twice to turn on Caps Lock. Tap again to use lower case letters.</p>
Entering numbers and symbols	<p>Tap  to switch to a keyboard offering numbers and symbols.</p>
Finalising the keyboard entry	<p>Tap .</p>
Starting a search for a keyboard entry	<p>Tap .</p>
Hiding the keyboard	<p>Tap .</p>

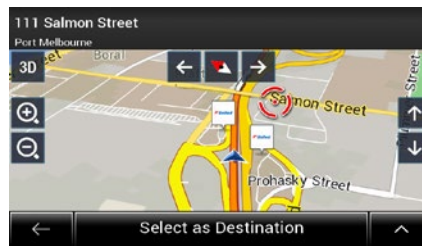
1.2.4 Using touch gestures

You usually need to tap the screen only once. However, some useful features can be accessed with other gestures. See the table below.








Action	Function
Tapping and holding the screen	<p>Tap and keep pressing the following buttons to reach extra functions:</p> <ul style="list-style-type: none">• Tap and hold the following button on list and menu screens to show the Navigation view: .• Tap and hold any of the following buttons on the Navigation view to rotate, tilt, or scale the map continuously: , , , , , .• Tap and hold the following button on keyboard screens to quickly delete several characters: .• Tap and hold the following buttons in long lists to scroll pages continuously: , .
Dragging	<p>Drag the screen in the following cases:</p> <ul style="list-style-type: none">• To move the handle on a slider.• To scroll a list: grab the list anywhere and slide your finger up or down. Depending on the speed of the sliding, the list scrolls faster or slower, only a bit or till the end.• To move the map in map browsing mode: grab the map, and move it in the desired direction.
Using pinch zoom	Use pinch zoom on the Navigation view to zoom in and out by moving two fingers in a pinch gesture.





1.2.5 Manipulating the map

If you tap the map anywhere during navigation, the map stops following the current position (the blue arrow is not locked in a fix position on the screen anymore) and control buttons appear to help you modify the map view.



You can perform the following actions on the map:

Action	Button(s)	Function
Checking location information	No buttons	The top section of the Navigation view shows information about the selected point (the cursor ).
Moving the map by dragging	No buttons	Move the map in any direction: tap and hold the map and move your finger towards the direction you want to move the map.
Zooming in and out	 , 	<p>Change how much of the map is displayed on the screen.</p> <p>HD-G2 blackbox uses maps that let you examine the locations at various zoom levels, always with optimised content. It always displays street names and other text with the same font size, never upside-down, and you only see the streets and objects that you need.</p> <p>Map scaling has a limit in 3D map view mode. If you zoom out further, the map switches to 2D view mode.</p> <p>Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.</p>
Tilting up and down	 , 	<p>Change the vertical view angle of the map in 3D mode.</p> <p>Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.</p>
Rotating left and right	 , 	<p>Changes the horizontal view angle of the map.</p> <p>Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.</p>

Changing 2D, 3D, or 2D North up views		Switch between the 3D perspective, 2D Heading up, and 2D North up map view modes. In Heading up mode the map is rotated so its top always points in the current driving direction. This is the default orientation in 3D map view mode. In North up mode, the map faces North.
Checking the compass		The direction of the compass shows North.
Selecting additional options		Open a list of additional features like saving a location, or searching for Places around the cursor.
Selecting a destination		Select the cursor location as a new destination. The route is automatically calculated.

1.3 Navigation view

The navigation view is the main screen of HD-G2 blackbox that shows the planned route on a map. HD-G2 blackbox works with digital maps which are not simply the computerised versions of traditional paper maps. Similarly to paper road maps, the 2D mode of digital maps shows you streets and roads. Elevation is also illustrated in colour.

The navigation view displays the following screen buttons, data fields, and route information on the map during navigation:



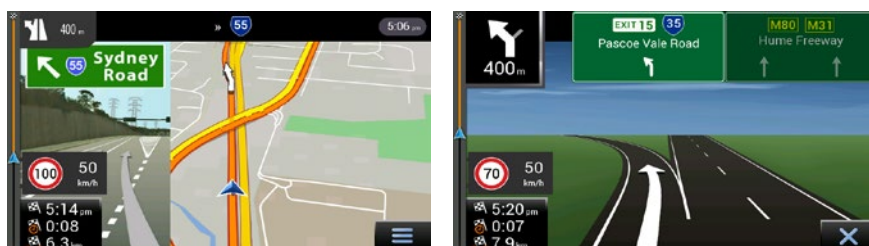
 **Note!** Some buttons, fields, or icons may not be available in your product version.

Number	Name	Description
1	Current position marker	The current position is displayed as a blue arrow by default. When there is no GPS position, the current position marker is transparent and it shows your last known position. See page 15.

2	GPS position	The dot near the arrow shows the GPS position as perceived by the GPS receiver. See page 15.
3	Planned route	The planned route is displayed as an orange line.
4	Data fields	<p>Three data fields show the following information:</p> <ul style="list-style-type: none"> • The estimated time of the arrival at the destination. • The remaining time of the trip. • The remaining distance to the destination. <p>Tap this area to access the Trip Computer screen with additional information about the current trip on a dashboard.</p> <p>You can change the default values in Settings (page 78) or by tapping and holding the area where the data fields appear.</p> <p>If you have not selected a destination, you can see your heading instead of the three data fields.</p>
5	Next turn preview	It shows the type of the next manoeuvre and its distance. See page 16.
6	Second next turn preview	It shows the type of the second next manoeuvre if it is near the first one. See page 16.
7	Next street	<p>It displays the name of the next street. See page 16.</p> <p>If you have not selected a route destination, you can see nearby house numbers, if they are available.</p>
8	Parking around destination	It appears near the destination. By tapping it, you can check the available parking facilities around your destination. See page 66.
9	Destination menu	It appears near the destination. By tapping it, you can check the trip summary, find Places around your final destination, save the current location, switch to pedestrian navigation or suspend the navigation.
10	Lane information	On multi-lane roads, it shows the lanes ahead and their directions. The highlighted arrows represent the lanes and direction you need to take. See page 18.
11	Alert point warning	It shows the type of the alert points when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it. See page 77.
12	Speed limit warning	It shows the current speed and the speed limit when speeding. See page 77.
13	Signpost	It shows the available destinations and the road numbers. See page 18.

14	Motorway services	By tapping it, you can check the details of the next few service stations (petrol stations, restaurants) when travelling on a motorway. See page 20.
15	Navigation menu	By tapping it, you can open the Navigation menu, where you can reach other parts of HD-G2 blackbox.
16	Street name	It shows the current street name. By tapping it, you can open the Where Am I screen. See page 67.
17	3D objects	They display hills, mountains, roads, landmarks, and buildings in 3D.

If you are approaching a motorway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. See page 19.



When entering a tunnel, the map is replaced with a generic tunnel image. See page 19.



1.3.1 Streets and roads

HD-G2 blackbox shows the streets similarly to paper road maps. Their width and colours correspond to their importance; you can easily tell a motorway from a small street.

1.3.2 GPS position markers

When your GPS position is available, HD-G2 blackbox marks your current position. By default, this marker is a blue arrow. The dot near the arrow shows the GPS position as perceived by the GPS receiver.

The exact location of the current position marker depends on the vehicle type used for route calculation and the navigation mode. Both can be set in Route preferences (page 71).

- If you choose pedestrian and/or off-road navigation, the position marker is at your exact GPS position. The direction of the icon shows your current heading.
- In all other cases, the position marker may not show your exact GPS position and heading. If roads are near, the GPS position is locked on the road and aligned to the

nearest road to suppress GPS position errors, and the direction of the icon is aligned to the direction of the road.

1.3.3 Turn preview and next street

When navigating a route, the top section of the Navigation view shows information about the next route event (manoeuvre) and the next street or the next town.






There is a field in the top left corner displaying the next manoeuvre. Both the type of the manoeuvre (turn, roundabout, exiting motorway, and so on) and its distance from the current position are displayed.

A smaller icon shows the type of the second next manoeuvre if it is near the first one. Otherwise, only the next manoeuvre is displayed. Tap the icon of the actual manoeuvre to open the Itinerary screen.

1.3.4 The planned route


The planned route is the currently navigated route. Whenever the destination is set, the route is active until you delete it, reach your destination or suspend navigation. HD-G2 blackbox displays the route in the following ways:





Symbol	Name	Description
	Current GPS position and starting point	It is your current position displayed on the map. <ul style="list-style-type: none">In pedestrian mode it is the GPS position.If a vehicle is selected for route calculation and roads are near, the arrow jumps to the nearest road.Normally, if GPS position is available, the route starts from the current position. If there is no valid GPS position, HD-G2 blackbox uses the last known position as the starting point.
	Waypoint (intermediate destination)	It is an intermediate destination of the route before reaching the final destination.
	Destination (end point)	It is the final destination of the route.

	Route colour	The route always stands out with its colour on the map, both in daytime and night colour modes.
	Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types (page 71). However, when HD-G2 blackbox cannot avoid such roads, the route includes them and shows them in a colour that is different from the route colour.

1.3.5 Manoeuvre icons

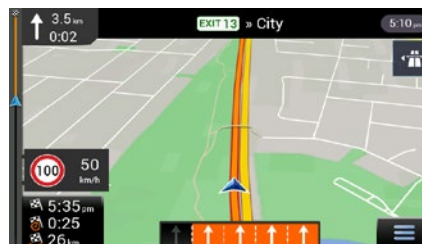
During navigation the next manoeuvre is displayed in the top left corner. Most of the manoeuvre icons are intuitive. The following table lists some of the frequently shown route events:

Icon	Function
	Turn left.
	Turn right.
	Turn back.
	Bear right.
	Turn sharp left.
	Keep left.
	Continue straight in the intersection.
	Enter the roundabout and take the first exit (next manoeuvre).
	Enter the roundabout (second next manoeuvre).
	Enter the motorway.
	Exit the motorway.

	Board the ferry.
	Leave the ferry.
	Approaching a waypoint on the right.
	Approaching the destination.

1.3.6 Lane information

When navigating on multi-lane roads, it is important to take the appropriate lane in order to follow the planned route. If lane information is available in the map data, HD-G2 blackbox displays the lanes and their directions using small arrows at the bottom of the map. Highlighted arrows represent the lanes and the direction you need to take.

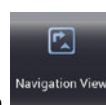


1.3.7 Signposts

If necessary information is available, HD-G2 blackbox displays signposts at the top of the map. The colour and style of the signposts are similar to the real ones you can see above roads or by roadsides. They show the available destinations and the road numbers.

All signposts look similar when cruising (when there is no planned route). During navigation only the signpost that points to the lane(s) to be taken is highlighted; all the others are darker.

If you want to hide the currently displayed signposts, tap any of them and the normal Navigation view returns until new signpost information is received.



You can modify the signpost settings in [Navigation View](#) (page 78).

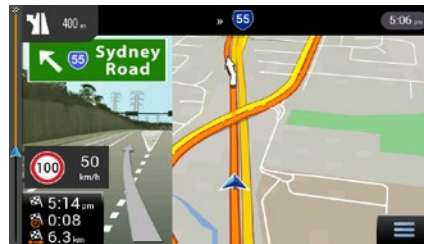
1.3.8 Junction view

If you are approaching a motorway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows. At the top of the screen, road signs show you additional information.

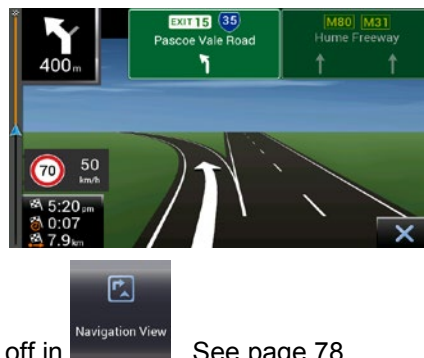
If you want to hide the currently displayed junction and return to the Navigation view, tap the picture.

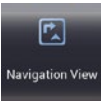
There are two kinds of Junction Views:

Provider Junction Views show a realistic view of the junction with realistic pictures of the road signs.



Where Provider Junction Views are not available but the necessary information exists, Generic Junction Views show a generic view of the junction, focusing on the number and layout of lanes only. The road signs are created from road shield, road number, and destination information received in the map data.



Junction view can be turned off in  . See page 78.

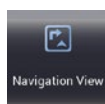
1.3.9 Tunnel view

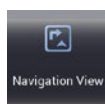
When entering a tunnel, the map is replaced with a generic tunnel image so that surface roads and buildings cannot distract you.



The top-down overview of the tunnel displayed in a separate window helps you orientate yourself. The remaining distance in the tunnel is also displayed.


After leaving the tunnel, the original map view returns.



Tunnel view can be turned off in  . See page 78.

1.3.10 Motorway services

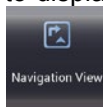


When you are driving on a motorway, the  button appears at the top right corner of the Navigation view. Tap it to open a panel with the details of the next few service stations (petrol stations, restaurants).



Tap any of them to display the exit area on the map. You can now easily add this service station as a waypoint to your route if necessary.

If you want to display other types of Places at the next few service stations, you can change



the icons in . See page 78.

1.3.11 3D object types

HD-G2 blackbox supports the following 3D object types:





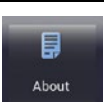
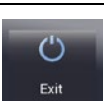
Type	Description
3D terrain	HD-G2 blackbox displays 3D hills and mountains in the Navigation view, and illustrates them by colouring and shading on the 2D map.
Elevated roads	Elevated roads are complex intersections and vertically isolated roads (such as overpasses or bridges) displayed in 3D.
3D landmarks	Landmarks are 3D representations of prominent or well-known objects.
3D buildings	3D buildings are block representations of full town building data containing actual building sizes and positions on the map.

1.4 Navigation menu

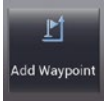
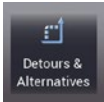
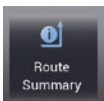

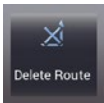

On the Navigation view, tap  to open the Navigation menu.












You can see the following menu options when you are navigating without a planned route:




Button	Function
	Select your destination by entering an address or its coordinates, or by selecting a Place, a Saved Location, or a Saved Route. You can also look up your recent destinations from the History.
	Build your route from one or more route points. You can also plan a route independently of your current GPS position by setting a new starting point.
	Access additional options and check navigation-related information.
	Customise the way the navigation software works.
	The About section provides you with product information. Read the Software and Database End User License Agreement, or check the map and other contents of the application. You can also access program usage statistics.
	Stop the navigation and exit the software.

With a planned route, the following menu options are also available:

Button	Function
	Add an intermediate destination to your route.
	See route alternatives to avoid parts of the route, or to avoid a specific road from your planned route.
	View the route in its full length on the map and check route parameters and route alternatives. Tap  to access additional options, like Simulation or Route Preferences.
	Delete your route.
	Delete the next waypoint or the whole route. It is displayed if there is a multipoint route.

In the navigation menu, you have the following additional options:

Button	Function
	Open the Saved Locations screen where you can save a location as a favourite destination or edit a saved location.
	Set the volume or mute the navigation.
	Switch to 2D () , 2D North up () view or back to 3D mode.
	Suspend navigation.
	Resume navigation.
	Access the User profiles menu where you can create new profiles or edit the existing ones. If several drivers are using the navigation system, they can create their own profiles with their own settings.
	Check those notifications that contain important information but do not require immediate action from the users. If there are no notifications, this icon is not displayed.

	<p>The Menu button appears when the Navigation view is displayed. Tap it to open the Navigation menu.</p>
	<p>The More button appears on the screen to display additional features. Tap it to open the list of additional features on certain screens.</p>
	<p>Tap the Back button to return to the previous screen. You can also press and hold this button to quickly return to the Navigation view from any other screen.</p>

2 Warnings and safety information

The navigation system helps you find your way to your destination with the built-in GPS receiver. HD-G2 blackbox does not transmit your GPS position; others cannot track you.

HD-G2 blackbox collects usage information and GPS logs that may be used for improving the application and the quality of maps if you accept it when first using the application. The data are processed anonymously; no one is able to track any personal information. If you change your mind later, you can enable or disable the log collection in Settings (page 81).

It is important to look at the display only when it is safe to do so. If you are the driver of the vehicle, we recommend that you plan and review your route before you start your journey. Plan the route before your departure and stop if you need to change the route.

You must follow the traffic rules. If you deviate from the planned route, HD-G2 blackbox changes the instructions accordingly.

3 Using the navigation

By default, HD-G2 blackbox calculates routes using the road network of the maps provided with the product.

You can select the destination and start navigating to it right away (normal navigation) if you need a route for immediate navigation.

You can also plan a route independently of your current GPS position even without GPS reception. To achieve this, you need to set a new starting point in the Multipoint Route menu. It also suspends guidance so that the route is not recalculated when a new position is received. See Page 51.

You can plan routes with multiple destinations by selecting a first and a second destination and adding it to your route. You can add as many destinations to your route as you like. See Page 48.

You can also use HD-G2 blackbox for off-road navigation. See page 61.

3.1 Selecting a destination

You can choose your destination by selecting one of the following options:


- Using combined search to search among different destination types at once, see page 25
- Entering a full address or a part of an address, for example a street name without a house number, see page 28
- Selecting a Place as your destination, see page 36
- Selecting a previously saved location as your destination, see page 42
- Selecting a location from the History of previously used destinations, see page 43
- Selecting a previously saved route, see page 45
- Entering the coordinate of the destination, see page 45
- Selecting a location on the map, see page 47
- Planning a multipoint route, see page 48.


3.1.1 Using combined search

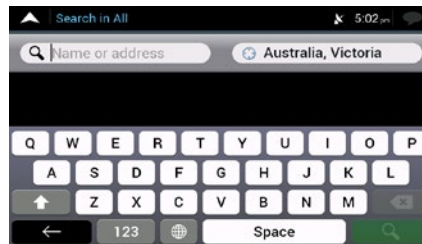
There are several ways to select your destination. You can initiate a separate search for addresses, Places, saved locations, or recent destinations, but the fastest way to search for any of these is to use combined search.

Perform the following steps to use combined search:

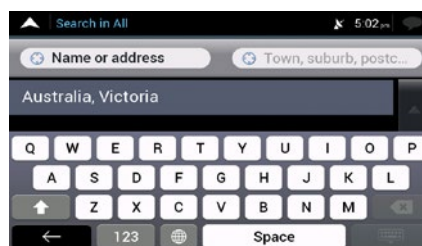
1. Tap  on the **Navigation view** to access the **Navigation menu**.

2. Tap  .

3. Tap  Search in All. You can see the input field at the top of the screen. Right next to it you can see the search area, the town around which the search is carried out. The default search area is the area where you are located. For a local search, skip the next step.




4. (optional) To search in a different area, tap the input field with the search area, and start entering the name of the new search area on the keyboard.

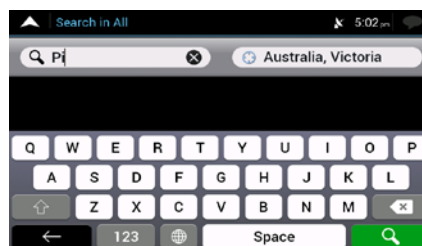



You only need to enter a few letters to get a result. The most likely result appears below the input field as you enter new letters.

- a. If the new search area is in a different country or state, start entering the country/state and the town.


- b. Tap  to see the whole list of the matching results.






5. With the proper search area displayed, start entering the name, address, or category of the destination you are looking for.





6. Tap  to switch to the result screen. You can see all the results in the list, regardless of their type. Addresses, Places, Place categories, Saved locations, and recent destinations are mixed in one list. You can immediately select the result you want to use as your destination or narrow the list of results for only one type (for example, Places).

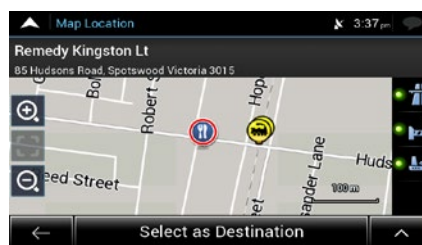




7. If necessary, tap  on the right side of the list and then tap the corresponding button to narrow the list of search results by type (the number on the related icon shows the number of the matching results):



- Tap  to see the list of recent destinations with a matching name or address.
- Tap  to see the list of your saved locations with a matching name.
- Tap  to see the list of matching addresses.
- Tap  to see the list of matching Place category names. Scroll the list and select one of the categories. You get the list of Places in that category ordered by their distance from your current position.
- Tap  to see the list of matching Places ordered by their distance from your current location.
- (optional) If your product contains Places from different data providers, you can further narrow the list by showing the results from one provider only. Look for the provider logos. Tap one of them to see Places from that provider.

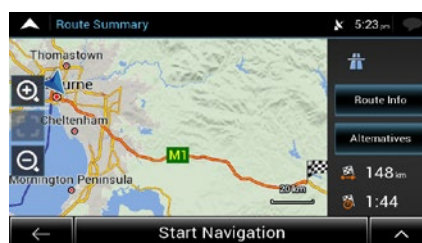
 **Tip!** To search for an intersection in the combined search, enter the names of the streets connected by the '&' sign. You do not need to use spaces before and after the separator character. For example you can find the intersection of Collins Street and Douglas Avenue by entering strings, like "Collins St & Douglas Ave", "Collins & Douglas", "Col&Doug", etc. The more precise the input string is, the fewer false results are expected. If you enter "Collins St&", you get all the intersections of Collins Street and you can select the appropriate one from the result list.

8. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor () appears in the new location.
9. Check the settings for road types and change them if necessary.



10. Tap  to confirm the destination, or tap  to select a different destination.

11. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.





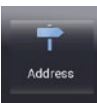

3.1.2 Selecting an address

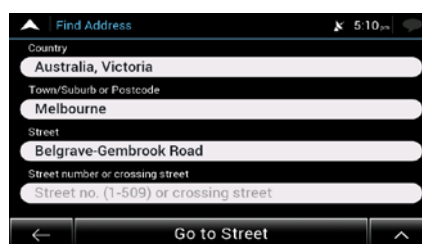
If you know at least a part of the address, this is the quickest way to select your destination. Using the same screen, you can find an address by entering the following information:

- The exact address, including the house number, see page 28
- The address starting with the street name, see page 30
- The centre of a town, see page 32
- The midpoint of a street, see page 33
- An intersection, see page 34
- Any of the above, starting the search with the postal code, see page 35.


3.1.2.1 Entering an address with states


To enter an address as the destination, follow these steps:

1. Tap  on the **Navigation view** to access the **Navigation menu**.
2. Tap  and .
3. By default, the HD-G2 blackbox proposes the country and state where you are or in case there is no valid GPS position, the country and state of the last known position. If needed, change the country. Tap .



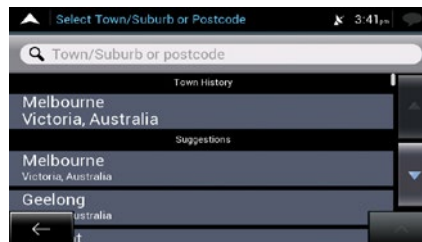
- a. In the Select Country screen, you can immediately select a country from the list

below the input field or tap the  Enter Country Name button and start entering the first few letters of the country on the keyboard. If you select a country without a state, you can search for a town in all its states.

- b. Tap  to open the list of results and select one country from the list.

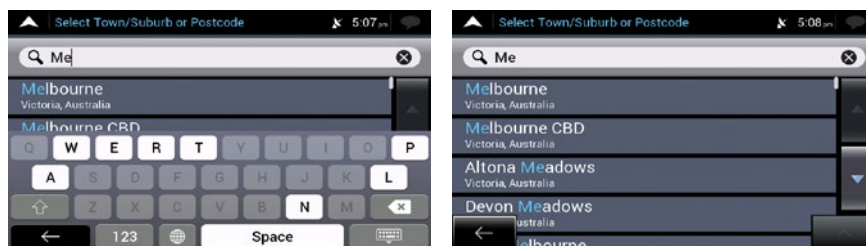
4. If needed, select a new city.

- a. Tap the City or ZIP code field.
- b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.



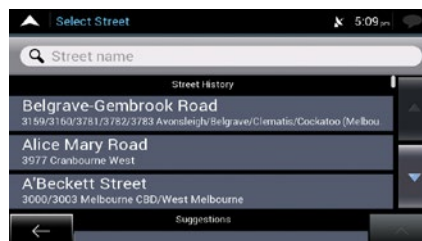
- c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.

- d. To open this list, tap  and select the city.




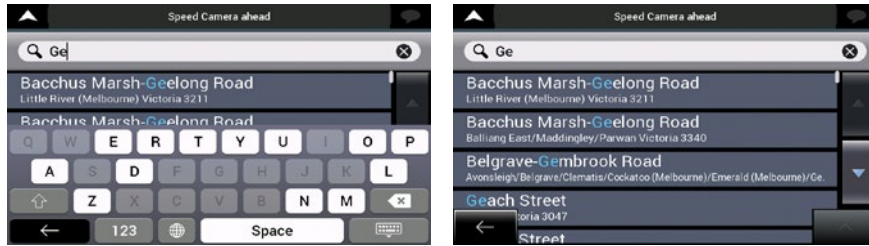
5. Enter the street name.


- a. Tap the Street field.
- b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.

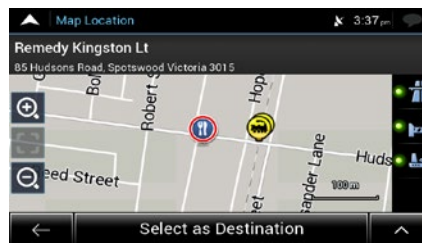






- c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.

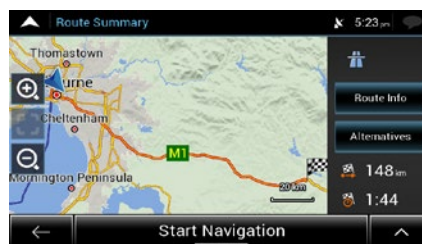
- d. Tap  to open the list of results. Select the street from the list.



6. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor () appears at the new location.
7. Check the settings for road types and change them if necessary.



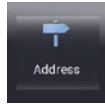
8. Tap  to confirm the destination. You can also select a nearby point on the map or tap  to select a different destination.
9. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.




3.1.2.2 Entering an address starting with the street name


After you have selected the country and state, you can leave the city or ZIP code field empty and start the search with the street name. This way you can search in all streets of a state. If you select the country without a state, this function cannot work.


1. Tap  on the **Navigation view** to access the **Navigation menu**.



2. Tap  and .

3. By default, HD-G2 blackbox proposes the country and state where you are. If needed, change the country. Tap .

a. In the Select Country screen, you can immediately select a country from the list below the input field or tap the  button and start entering the first few letters of the country on the keyboard.

b. Tap  to open the list of results and select one country from the list.

4. If needed, select a new city.

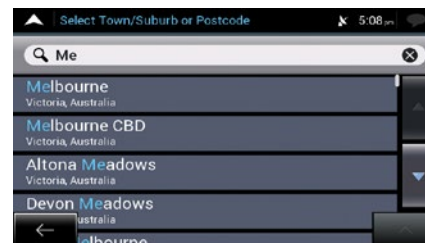
a. Tap the City or ZIP code field.

b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.



c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.

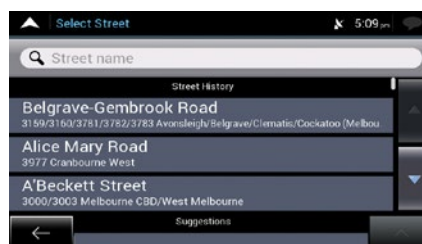
d. To open this list, tap  and select the city.



5. Enter the street name.


a. Tap the Street field.

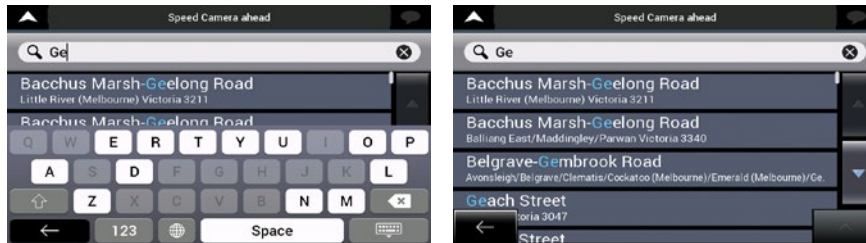
b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.





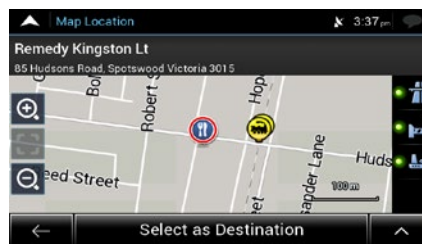
- c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.







- d. Tap  to open the list of results. Select the street from the list.



6. A full screen map appears with the selected point in the middle. If necessary, tap the  map somewhere else to modify the destination. The cursor () appears at the new location.
7. Check the settings for road types and change them if necessary.



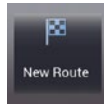
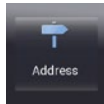
8. Tap  to confirm the destination. You can also select a nearby point on the map or tap  to select a different destination.
9. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.

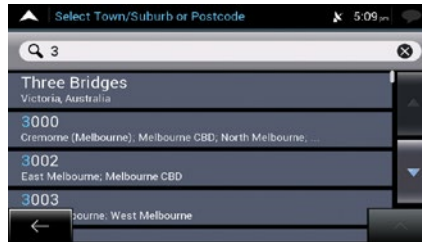


3.1.2.3 Selecting a town centre

The town centre is not the geometric centre of the town but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection and in larger towns, it is one of the important intersections.



1. Go to , , and modify the country and state as described earlier (page 28), if necessary.
2. If necessary, select a new town by performing the following steps:
 - a. Tap the Town or Postcode field.
 - b. (optional) On the Town or Postcode screen, you can select a town from the list of suggestions.




- c. Otherwise, start entering the first few letters of the town. The names that match the string appear in a list.



- d. To open the list, tap  and select the town.

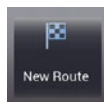
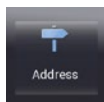


3. Tap . This way the centre of the displayed town becomes the destination of the route.

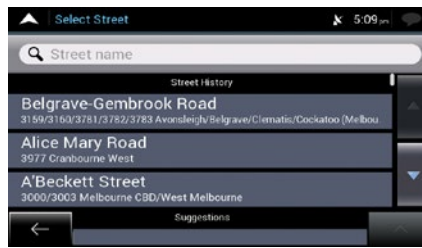
3.1.2.4 Selecting the midpoint of a street

To navigate to the midpoint of a street without entering the house number, perform the following steps:




1. Go to , , and select the country and town as described earlier. The Select Street screen appears.
2. Enter the street name by performing the following steps:
 - a. Tap the Street name field.

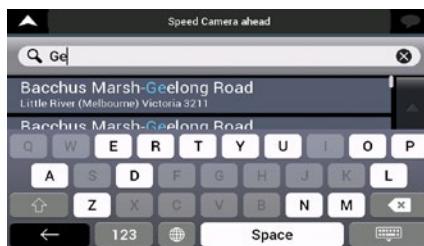
- b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



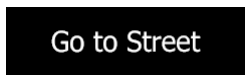
- c. Otherwise, start entering the street name on the keyboard. The names that match the string appear in a list.



- d. Tap  to open the list of results. Select the street from the list.



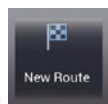

Go to Street

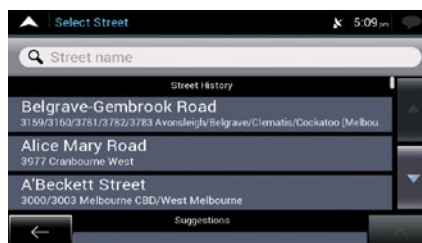
3. Instead of entering the house number, tap . The midpoint of the street is selected as the destination.

3.1.2.5 Selecting an intersection in a town


To navigate to an intersection, perform the following steps:

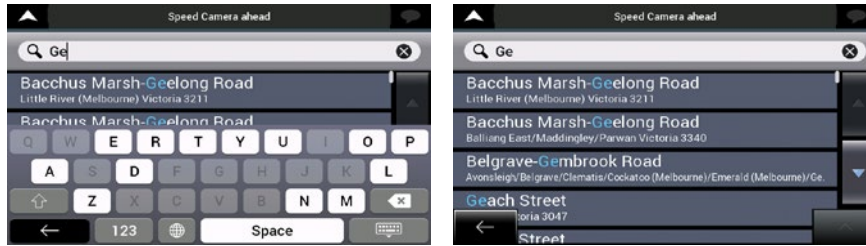


1. Go to , , and select the country and city as described earlier.
2. Enter the street name by performing the following steps:
 - a. Tap the Street name field.
 - b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



- c. Otherwise, start entering the street name on the keyboard. The names that match the string appear in a list.

- d. Tap  to open the list of results. Select the street from the list.







3. Tap the House number or crossing street field and browse the list of crossing streets or start entering the street name in the field. Select one from the list.

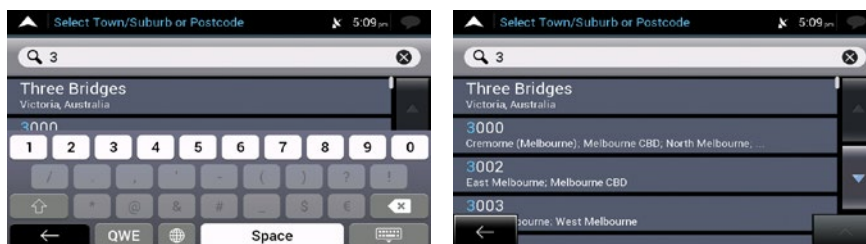


3.1.2.6 Using the postcode to select a destination

You can also select any kind of destination by entering the postal code instead of the city name. To select the postal code, perform the following steps:

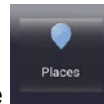
1. Go to  ,  , and modify the country and state as described earlier (page 28), if necessary.
2. Tap the Town or Postcode field.
3. Enter the postcode by performing the following steps:

- a. Tap  to open the numeric keypad.
- b. Start entering the postal code.
- c. Tap  to open the list of results.
- d. Find the place you need.



4. Continue the search as described previously (page 28).

3.1.3 Selecting a Place of Interest



You can search for Places of Interest (Places) in the menu.


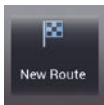
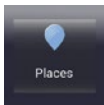
Using the same screen, you can find a Place by selecting one of the following options:

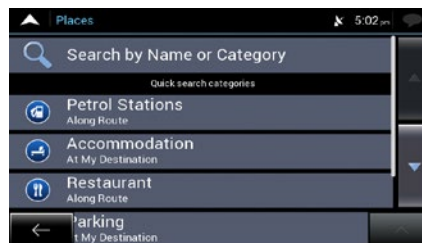
- Finding frequently searched types of Places with the Quick search categories, see page 36
- Searching for a Place by its name, see page 40
- Searching for a Place by its category, see page 38

In case of emergency, you can also find help nearby, see page 41





3.1.3.1 Using Quick search categories

The Quick search feature helps you quickly find the most frequently selected types of Places. Perform the following steps:

1. Tap  on the **Navigation view** to access the **Navigation menu**.
2. Tap  and .

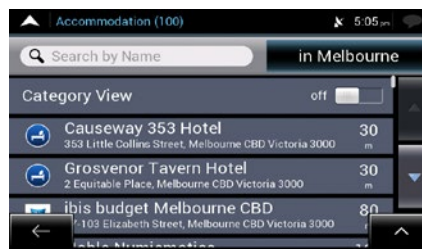




The following Quick search categories appear:

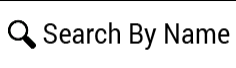
-  **Petrol Stations**
Along Route : If a planned route exists, petrol stations are searched along the route.
-  **Accommodation**
At My Destination : If a planned route exists, accommodation is searched around the destination.
-  **Restaurant**
Along Route : If a planned route exists, restaurants are searched along the route.
-  **Parking**
At My Destination : If a planned route exists, parking lots are searched around the destination.


If there is no planned route (destination is not selected), the search is carried out around the current position. If the current position is not available either (no GPS signal), places are searched around the last known position.


3. Tap any of the quick search buttons to get an instant list of Places.



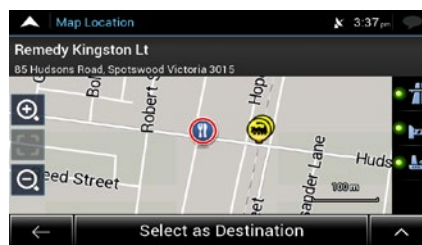
4. The Places in the list can be ordered by their distance from the current or last known position, from the destination, or by the length of the necessary detour. If you need to reorder the list, tap . To filter the list of results by providers, tap  and then the provider logo on the right side of the screen.



5. (optional) If needed, tap  to further filter the list of results.
6. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.



7. Tap  to see the details of the selected Place, or to save the location. If there is a telephone number saved for this Place, you can make a call to that number by tapping the green button at the bottom.

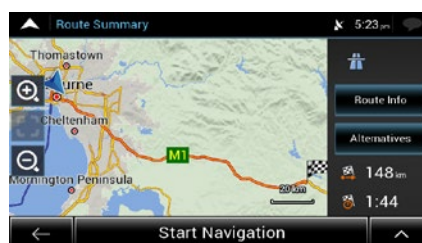
8. If necessary, tap the map somewhere else to modify the destination. The cursor () appears at the new location.

9. Check the settings for road types and change them if necessary.







10. Tap  to confirm the destination. You can also select a nearby point on the map or tap  to select a different destination.

- The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.



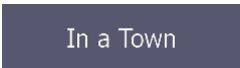


3.1.3.2 Searching by category

To search for Places by their categories and subcategories, perform the following steps:

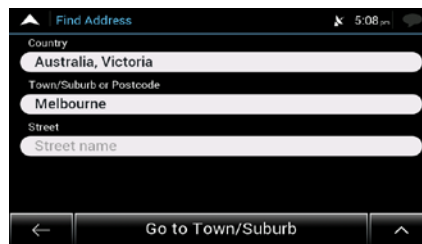
- Tap  on the **Navigation view** to access the **Navigation menu**.
- Tap  and .
- Tap .
- Select the area around which you would like to search for the Place by tapping

. By default, the search area is around the current position (or if it is not available, around the last known position). In this case, the following result list is ordered by the distance from this position.

- Tap  to search along the planned route, and not around a given point. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming petrol stations or restaurants. (The result list is ordered by the length of the necessary detour.)
- Tap  to search for a place around the destination of the planned route. (The result list is ordered by the distance from the destination.)
- Tap  to search for a place within a selected town. (The result list is ordered by the distance from the centre of the selected town.)



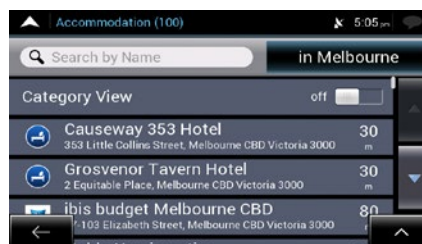
5. (optional) If you have selected , select the town to search in.



6. Select one of the main Place categories (for example, Accommodation), then browse the subcategories (for example, Hotel or Motel) to find your destination.



7. You can turn the Category View off at any level to list all Places around the selected location or along the route.



8. (optional) The Places in the list can be ordered by the following criteria:

- Name
- Their distance from the current or last known position
- Their distance from the selected town
- Their distance from the destination
- The length of the necessary detour.



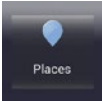


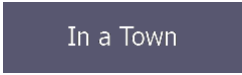


Tap  to reorder the list.

To filter the list of results by providers, tap  and then the provider logo on the right side of the screen.


9. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
10. The process continues the same way as in case of any other search for Places. See page 36.

3.1.3.3 Searching by name

To search for a Place by name, browse the various Place categories, or use the mixture of the two search types, perform the following steps:

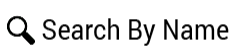
1. Tap  on the **Navigation view** to access the **Navigation menu**.
2. Tap  and .
3. Tap  to open the Search By Name or Category window.
4. Select the area around which you would like to search for the Place. By default, the search area is around the current position (or if it is not available, around the last known position). In this case, the result list is ordered by the distance from this position. Tap  to select one of the following search areas:
 - Tap  to search for a place within a selected town. (The result list is ordered by the distance from the centre of the selected town.)
 - Tap  to search for a place around the destination of the planned route. (The result list is ordered by the distance from the destination.)
 - Tap  to search along the planned route, and not around a given position. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming petrol stations or restaurants. (The result list is ordered by the length of the necessary detour.)

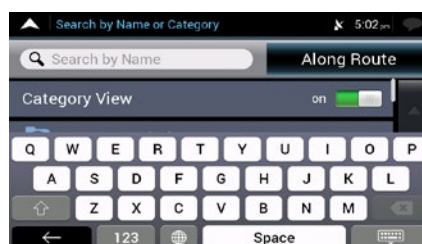


5. (optional) If you have selected , select the town to search in.

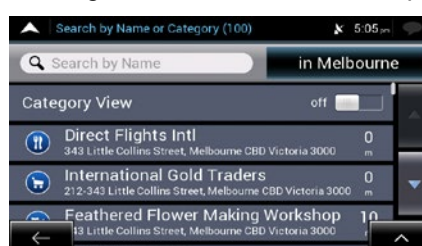


You can search for the name of a Place in all categories by performing the following steps:

1. Tap . Using the keyboard, start entering the name of the Place or browse in the categories.



2. After entering a few letters, tap  to open the list of Places or Place categories with names containing the entered character sequence.



3. Browse the list, if necessary, and tap the desired list item. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
4. The process continues the same way as in case of any other Places search. See page 36.

3.1.3.4 Finding help nearby


To quickly search for nearby assistance, perform the following steps:




1. Tap  on the **Navigation view** to access the **Navigation menu**.

2. Tap  and .



Places in the following pre-set search categories can be searched for around the current position (or around the last known position if the current position is not available):

-  **Car Repair**: Car repair and roadside assistance services

-  Health : Medical and emergency services
-  Police : Police stations
-  Petrol Stations : Petrol stations


3. Tap any of the quick search buttons to get an instant list of those types of Places.



4. (optional) The Places in the list can be ordered by the following criteria:

- By their distance from the current or last known position
- By name.



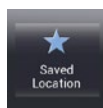
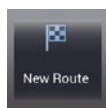
Tap  to reorder the list.

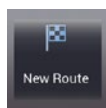
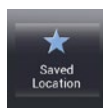
5. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
6. The process continues the same way as in case of any other Places search. See page 36.

3.1.4 Selecting a Saved Location

To select a location that you have already saved (page 57), perform the following steps:



1. Tap  on the **Navigation view** to access the **Navigation menu**.

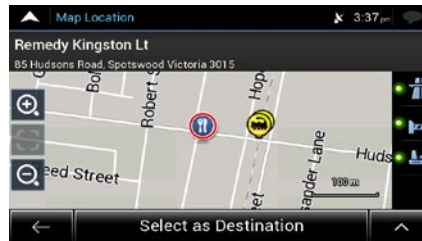






2. Tap  and .
3. The list of saved locations is displayed. It contains two pre-set categories: Home and Work.

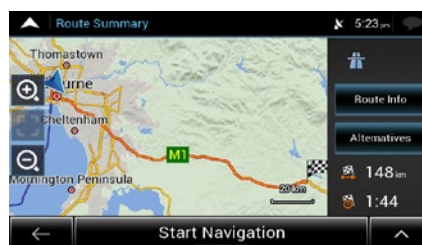


4. Tap the location that you want to set as your destination. If necessary, browse the list to see more results.

5. (optional) If needed, tap  to enable the editing option so that you can rename the saved locations or delete any of them.
6. After you have selected a saved location as the destination, a full screen map appears with the selected point in the middle.
7. If necessary, tap the map somewhere else to modify the destination. The cursor () appears in the new location.
8. Check the settings for road types and change them if necessary.



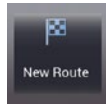
9. Tap  to confirm the destination. You can also select a nearby point on the map or tap  to select a different destination.
10. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.



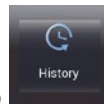
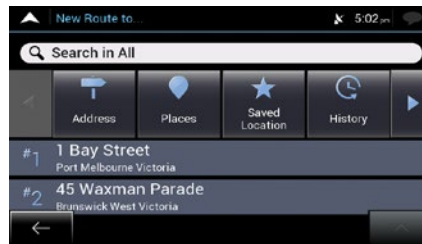
3.1.5 Selecting a History item

The destinations that you have used earlier appear in the History list. Smart History offers these locations from your previous destinations, using parameters like the current time of day, the day of week, and the current location. The more you use the navigation software, the better it can guess your desired destination. To select a History item, perform the following steps:

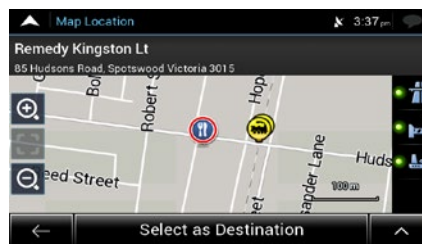
1. Tap  on the **Navigation view** to access the **Navigation menu**.



2. Tap . Two of the Smart History Items are displayed in the New Route to... screen for easy access. You can select one of them as your destination.

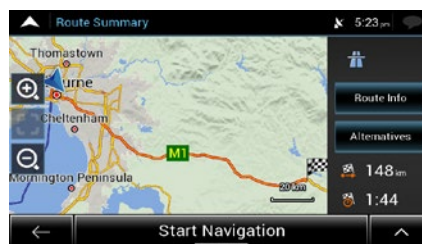


3. To open all the history items, tap . The list of recent destinations appears. The list begins with the three most likely destinations that are selected based on your previous routes (Smart History). The rest of the destinations are ordered by the time they were last selected. If necessary, scroll the list to see earlier destinations.
4. Select a destination from the list.
5. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor () appears at the new location.
6. Check the settings for road types and change them if necessary.



Select as Destination

7. Tap to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.
8. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap to start your journey.






3.1.6 Selecting a saved route

The routes that you have saved earlier appear in a list. To select a previous route, perform the following steps:

1. Tap  on the **Navigation view** to access the **Navigation menu**.

2. Tap  and .



3. The list of saved routes appears. If necessary, scroll the list to see earlier routes.
4. Select a route and the Multipoint Route screen appears. If necessary, modify the saved route. Otherwise, tap .
5. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.



3.1.7 Entering coordinates

To select a destination by entering its coordinates, perform the following steps:

1. Tap  on the **Navigation view** to access the **Navigation menu**.

2. Tap  and .


- You can enter the latitude and longitude values in any of the following formats: decimal degrees, degrees and decimal minutes, or degrees, minutes and decimal seconds.

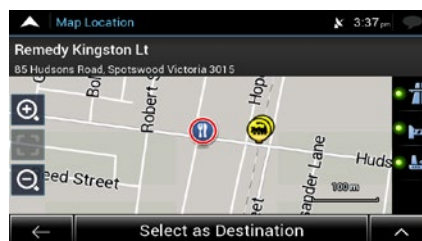
Tap .






(optional) If necessary, tap  then  and enter the coordinate in UTM format.

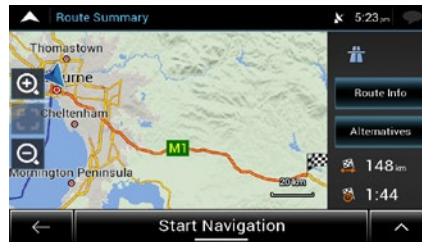


- A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor () appears at the new location.
- Check the settings for road types and change them if necessary.



- Tap  to confirm the destination. You can also select a nearby point on the map or tap  to select a different destination.

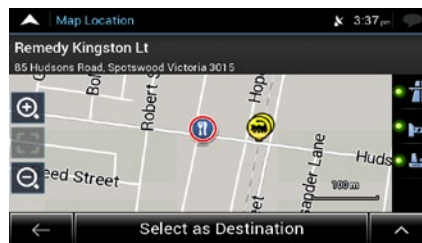
- The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap **Start Navigation** to start your journey.





3.1.8 Selecting a location on the map



To select a map location, perform the following steps:

- Locate your destination on the map. Move and scale the map as necessary.





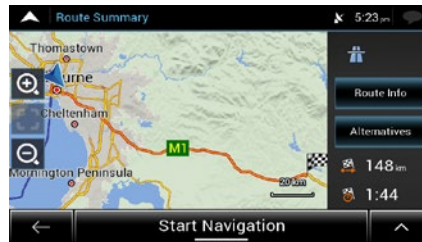
- Tap the location that you want to select as your destination. The cursor () appears there.

- (optional) If needed, tap  to list the Places near the selected point or to save this location.

 **Tip!** If you already have a planned route, tap  and **Select as Waypoint** to add the selected location to your route.



- Tap **Select as Destination** to select the cursor as the destination.

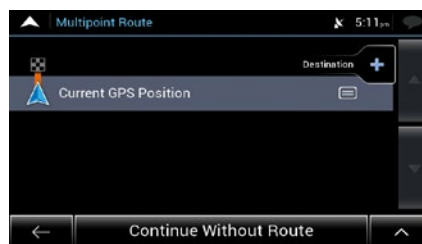
- The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap  to modify the route parameters, or tap  to start your journey.

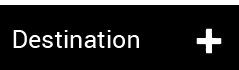


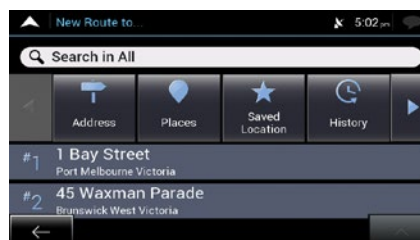
3.1.9 Planning a Multipoint Route

To build your route destination-by-destination, perform the following steps:

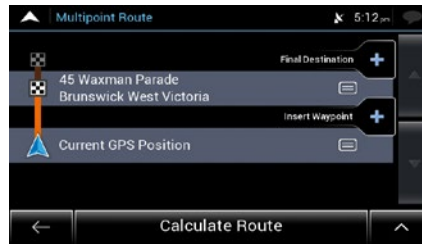
- Tap  on the **Navigation view** to access the **Navigation menu**.
- Tap  .




- There is only one line in the list of route points, the starting point of the route, which is normally the current GPS position.
- Tap  to select the destination.
- The New Route to... screen appears, where you can select the destination of the route the same way as described in the previous sections.



- When the selected location appears on the map, tap **Select as Destination** and the list returns. If needed, you can add further intermediate destinations.



- To add more route points, tap **Insert Waypoint +** or tap **Final Destination +** to change the final destination. The Add to Route... menu appears again, where you can select the new route point the same way as you have set the destination before.



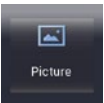
- (optional) Tap  to optimise the whole route or the order of waypoints. You can also delete all the destinations.

- When you have added all the route points, tap **Calculate Route** and the planned route is automatically calculated.

3.1.10 Selecting a destination using a picture

You can navigate to a destination using geotagged photos. If photos are taken while GPS is enabled on your phone or camera, they are saved with GPS coordinates and appear in HD-G2 blackbox automatically. You can use these photos to navigate to the place where the selected photo was taken.

To select a destination using a picture, perform the following steps:


- Tap , , and .
- Select the picture that was taken at the place where you want to go.
- Tap **Select as Destination**. HD-G2 blackbox now navigates you to the selected destination.

3.2 Checking route information and alternatives

To get a map overview of the planned route and check different parameters of the planned route, perform the following steps:

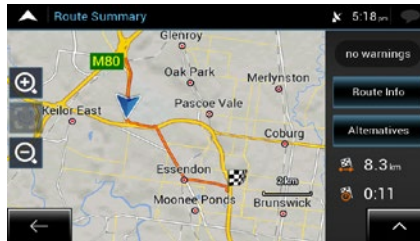
- Tap  on the **Navigation view** to access the **Navigation menu**.




2. In the Navigation menu, tap .


The planned route is displayed in its full length on the map with the following additional information:

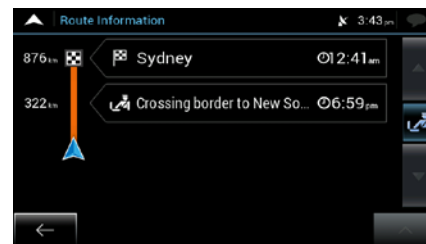
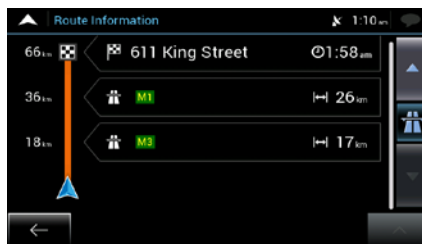
- The total length of route
- The total time of route.




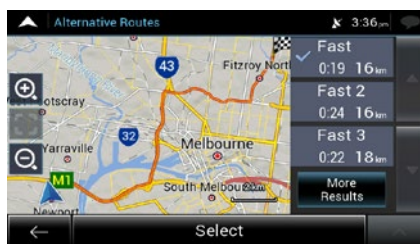
By tapping , you can check detailed information about the route. If




you tap  on the right side of the screen, you can narrow the route information, for example to show only motorway sections or toll roads.



By tapping , you can see a list of route alternatives and select the most suitable route.



3. Tap  on the Route Summary screen to carry out additional actions, for example edit your route preferences or display the itinerary.

3.3 Editing the route

When navigation has already started, there are several ways to modify the planned route. You have the following options:


- Setting a new starting point, see page 51
- Adding an additional destination, see page 52

- Modifying the list of destinations, see page 52
- Saving the planned route, see page 53
- Deleting the planned route, see page 54
- Selecting a route alternative when planning the route, see page 54
- Selecting a route alternative for an existing route, see page 55
- Pausing guidance, see page 57.



3.3.1 Setting a new starting point

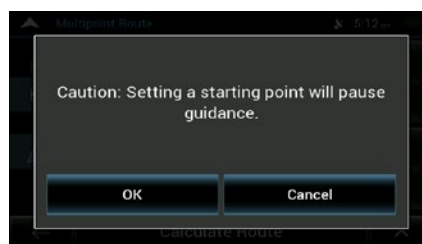
For normal navigation, all routes are calculated from the current position. You can pause navigation to check future routes, simulate them or see their length in time and distance. Then you can set the starting point of the route to a location other than the current GPS position.

1. Tap  on the **Navigation view** to access the **Navigation menu**.

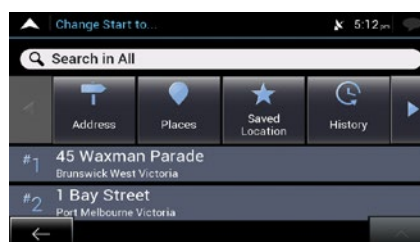
2. In the Navigation menu, tap .




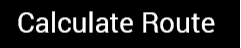
3. The first line from the bottom is the start of the route, normally the current GPS position. Tap , select , and confirm your action at the warning message.



4. The Change Start to... screen appears. Select the starting point of the route the same way you select a destination.



5. You can see the new starting point on the map. Tap  and the Multipoint Route screen appears where you can continue adding a destination to your route.

6. Tap  to continue. The map returns with a transparent position marker (showing that there is no GPS reception). If a planned route already exists, it is now recalculated starting from the selected location.







7. To return to normal navigation, tap .

3.3.2 Adding an additional destination

If you already have a planned route and you select a new destination as described in the above sections, the route to the previous destination is deleted and a new route is calculated.


To add a new intermediate destination to the planned route, perform one of the following actions:

- Tap the map anywhere to browse it. After selecting the location on the map, tap  and  to add the selected location to your route as an intermediate destination. The other destinations of the route remain intact.
- Tap  on the Navigation view and tap . Add a destination to your route as described on page 48.

3.3.3 Modifying the list of destinations


To edit your route, perform the following steps:


1. Tap  on the **Navigation view** to access the **Navigation menu**.

- In the Navigation menu, tap  .



You have the following options on this screen:

- Tap  to delete all the destinations, or optimise the waypoints or the route.
- Tap the name of the intermediate destination to move it up or down in the list, to save the location, or to delete it from the list.
- If you have a route with at least one intermediate destination, you can delete the

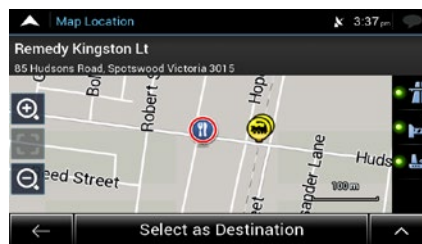
waypoint from the list right from the Main menu. Tap  , then confirm the deletion.

3.3.4 Saving the planned route

To save the planned route, perform the following steps:

- Select a destination as described earlier and tap





- Tap  and  .

- Type in a name and tap





4. The route is saved and it is available in ,



By selecting a previously saved route, HD-G2 blackbox recalculates the route using the saved destination and/or the waypoints.

3.3.5 Deleting the planned route

You have the following two options to delete the navigated route:

- If you already have a planned route and you select a new destination as described in the above sections, the route to the previous destination is automatically deleted and a new route is calculated.

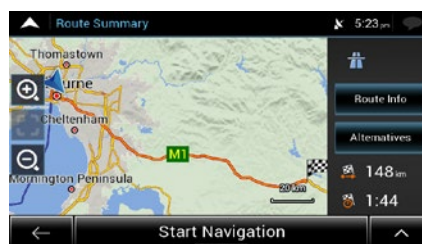


- In the Navigation menu, tap or . If there are no waypoints, the planned route is deleted after a confirmation. If you have waypoints, you can choose to delete the whole route, or only the next waypoint.

3.3.6 Selecting a route alternative when planning the route

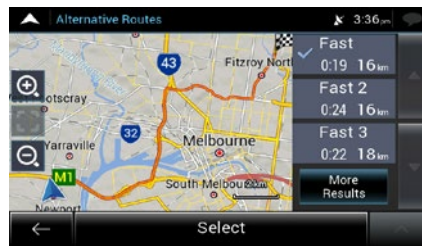
To select from different route alternatives or change the route planning method after you have selected a new destination, perform the following steps:

1. Select a destination as explained earlier, and go to the route confirmation screen.



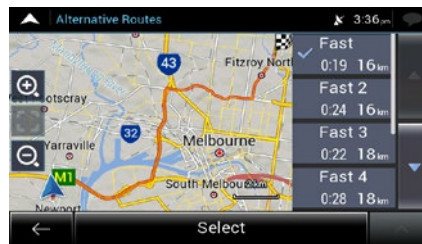
2. Tap .

3. You can see the basic details of route alternatives. Tap any of them to see it on the map.



More Results

4. To view more suggestions, tap **More Results** and scroll down for other alternative routes with different route planning methods.




Select

5. Select one of the route alternatives and tap **Select** to return to the previous screen. HD-G2 blackbox recalculates the route. Tap **Start Navigation** to start your journey. The orange line now shows the new planned route.

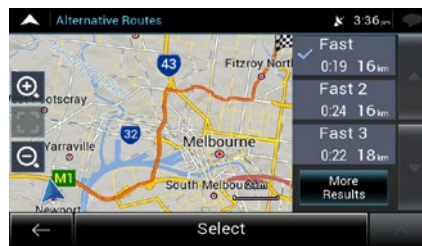
3.3.7 Selecting a route alternative for an existing route

To recalculate the planned route with a different route planning method and to compare different route alternatives, perform the following steps:


1. Tap  on the **Navigation view** to access the **Navigation menu**.
2. You can access the list of route alternatives from the Navigation menu in one of the following ways:

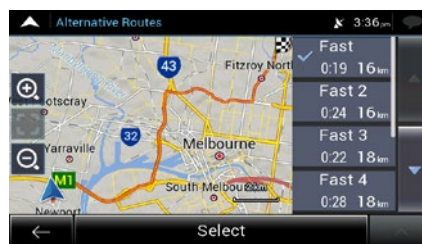
- Tap  and .
- Tap  and .



3. You can see the basic details of a few route alternatives. Tap any of them to see it on the map.



If there are suitable alternatives calculated with the route planning method that is selected in Route preferences (page 71), they are shown on top of the list. Routes with other route planning methods are shown at the bottom of the list.


4. If there are more than a few suggestions, you can tap  and scroll down for routes.




5. Select one of the route alternatives and tap  to return to the  previous screen. HD-G2 blackbox replaces the original route. Tap to start your journey. The orange line now shows the new planned route.


3.3.8 Setting a detour

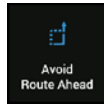
1. Tap  on the Navigation view to access the Navigation menu.

2. In the Navigation menu, tap  .

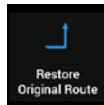
You can set up a detour for your route in the following ways:

- Tap  to open a list of special sections of the planned route such as stretches of motorway, toll road or ferry trips. Tap any of these items on the itinerary to avoid a special section.

- Tap  to open the full list of roads on the planned route. Tap any of these items on the itinerary to avoid that specific road.



- Tap **Avoid Route Ahead** to avoid a part of the planned route that is right ahead of you on the itinerary. You can set the distance for which you want to avoid the road ahead.



- Tap **Restore Original Route** to delete all detours that you have set up for the planned route,

3.3.9 Pausing guidance

When you are driving a planned route but you do not need guidance for a certain part of the route, you can suspend it and continue when it is needed again.



In the Navigation menu, tap **Pause** to suspend guidance.



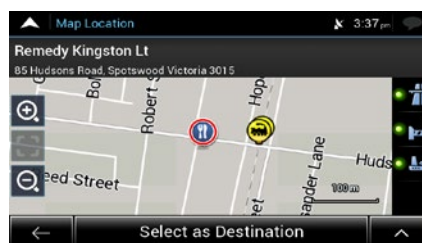
Tap **Play** to resume guidance.

3.4 Saving a location

To add any location to the saved locations (the list of frequently used destinations), perform the following steps:

1. Select a destination as described before. It can be an address, a Place, any location on the map, a previously used destination from History, and so on.

2. When the map appears with the selected location in the middle, tap **Up Arrow**.



Save Location


3. Tap **Save Location**.

- (optional) Using the keyboard, you can change the name offered for the Saved Location.



- Tap  to save the location.

To add your home and work address to the saved locations, perform the following steps:

- On the Navigation view, tap , , and .
- Tap  or . Tap  to confirm your selection.
- You can search for the address as described on page 25.





Planning a route to one of the saved locations is described on page 42.

3.4.1 Editing a saved location

To edit a location that you have already added as a Saved Location, perform the following steps:

- On the Navigation view, tap , , and .
- The list of Saved locations is displayed.





- Tap  and .
- Tap the location you want to edit, tap , and enter the name of the location on the keyboard, then tap .

In Saved Locations, Home and Work cannot be renamed. To change your



Note!

home or work location, tap  or , and confirm the address change.

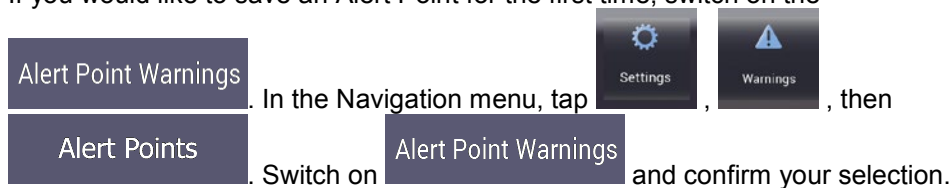
5. Tap .

Adding a location to the list of saved locations is described on page 57.

3.5 Adding an Alert Point


You can save any map location as an Alert Point, for example a speed camera or a school zone.


1. If you would like to save an Alert Point for the first time, switch on the



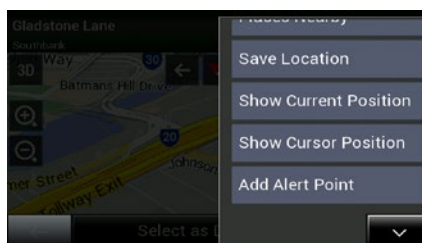
. In the Navigation menu, tap , then


. Switch on  and confirm your selection.

 **Note!** The warning for road safety cameras is disabled when you are in a country where road safety camera warning is prohibited. However, you must make sure that using this feature is legal in the country where you intend to use it.

1. Return to the Navigation view, and select the Alert Point. The red cursor () appears there.

2. Tap .



3. Scroll down the list and tap .
4. Select the type of the Alert Point, the direction from which you expect the alert, and (if applicable) the speed limit for this Alert Point.

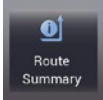


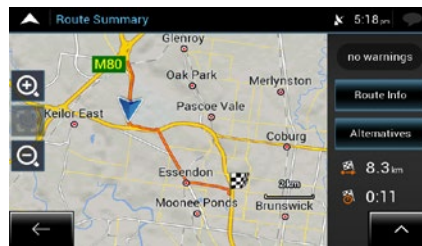
5. Tap  to save the location as a new Alert Point.

3.6 Running a Simulation

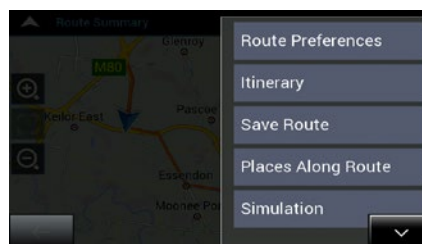
To run a simulated navigation that demonstrates the planned route, perform the following steps:


1. Tap  on the **Navigation view** to access the **Navigation menu**.

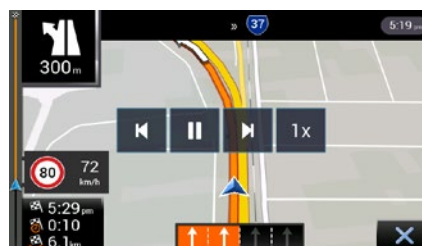
2. In the Navigation menu, tap .







3. Tap .




4. Tap . The simulation starts from the starting point of the route and leads you through the whole planned route using a realistic speed.



(optional) You have the following controls during the simulation (the control buttons disappear after a few seconds but you can open them again if you tap the map):

- : Jump to the next route event (manoeuvre).
- : Pause the simulation.
- : Jump to the previous route event (manoeuvre).
- : Tap to increase the speed of the simulation to 4, 8 or 16 times faster. Tap again to return to normal speed.






5. Tap  to stop the simulation.

3.7 Off-road navigation

When first started, HD-G2 blackbox calculates routes using the road network of the maps provided with the product. If you want to disregard roads during navigation, you can switch to off-road mode, for example when driving in a desert.

3.7.1 Switching to off-road navigation

To switch to off-road navigation, perform the following steps:

1. On the Navigation view, tap , , and .
2. Tap  and select .

Most of the procedures described for on-road navigation also apply to off-road navigation. However, there are some that are not available in this navigation mode. For example:

- You cannot open the itinerary as you have no manoeuvres just route points and straight lines between them.
- There are no route alternatives and route planning method.
- Vehicle settings are disabled.

3.7.2 Selecting the destination in off-road mode

Selecting a destination (waypoint or final destination) is the same as described in the previous sections. The only difference is that route points are linked to form a route with straight lines regardless of the road network and traffic regulations.

3.7.3 Navigating in off-road mode




The real difference between on-road and off-road modes is the navigation itself. When you are on the Navigation view with an off-road route:

- Your position and heading is not aligned to the nearest road.
- There is no turn-by-turn navigation, just a recommended direction.

You can see an orange line drawn between your current position and the next destination to reach. The Turn Preview field in the top left corner shows a compass with your bearing and the distance of the next destination.



When you reach the final destination, the navigation ends.

 **Note!** If you do not want to use off-road navigation, switch back to on-road navigation by tapping  and .

4 Reference guide

The following sections describe the different concepts and menu screens of HD-G2 blackbox.

4.1 Concepts

The following sections describe and explain navigation-related concepts.

4.1.1 2D/3D GPS reception

The GPS receiver uses satellite signals to calculate its (your) position and needs at least four signals to give a three-dimensional position, including elevation. Because the satellites are moving and because objects can block the signals, your GPS device might not receive four signals. If three satellites are available, the receiver can calculate the horizontal GPS position but the accuracy is lower and the GPS device does not give you elevation data; only 2D reception is possible.

Several factors have an impact on the deviation between your real position and the one given by the GPS device. For example, signal delay in the ionosphere or reflecting objects near the GPS device have a different and varying impact on how accurately the GPS device can calculate your position.

4.1.2 Natural and TTS voices

Natural voices are the traditional type of voice instructions. Every phrase that occurs in voice guidance messages is recorded in a studio with a real person. The advantage of pre-recorded voice is that it sounds really natural, but the range of instructions that can be given this way is limited. Location-specific information such as street names cannot be announced.

TTS technology provides a machine-generated way to give voice instructions. The advantage of TTS is that it can announce street names, traffic events, route summary, and traffic rules.

4.1.3 Road safety cameras and other proximity Alert Points

There is a special proximity warning for road safety cameras (like speed or red light cameras) and other proximity Alert Points (like schools or railroad crossings). These Alert Points are preloaded in HD-G2 blackbox.

You can add your own Alert Points. See page 59.

The application can warn you when you approach road safety cameras like speed cameras or dangerous areas like school zones or railroad crossings. You can set up the different alert types individually in the Warnings settings, see page 77.

The following warning types are available:

- Audio warning: beeps are played (if the voice guidance language that you selected is a natural voice) or the type of the alert can be announced (TTS voice) while you are approaching one of these points, and an extra alert warns you if you exceed the given speed limit while approaching.

- Visual warning: the type of the Alert Point, its distance and the related speed limit appear on the Navigation view while you are approaching one of these locations.

For some of the Alert Points, either the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.

- Only when speeding: The audio alert is only played when you exceed the given speed limit.
- When approaching: The audio alert is always played when approaching one of these Alert Points. In order to draw your attention, the alert is different when you exceed the speed limit.



Note!

The warning for road safety cameras is usually disabled when you are in a country where road safety camera warnings are prohibited. Make sure that using this feature is legal in the country where you intend to operate. Use it on your own responsibility.

4.1.4 Route calculation and recalculation

A route is a sequence of route events, that is, manoeuvres (for example, turns and roundabouts) to reach the destination. The route contains one starting point and one or more destinations. The starting point is the current (or last known) position by default. If you need to see a future route, the starting point can be replaced with any other given point. See page 51.

Once the destination has been selected, HD-G2 blackbox calculates the route based on your preferences. These preferences are the route planning method, the vehicle type, and the road types used or avoided when calculating the route. For detailed information on all the preferences, see Route preferences settings, page 71.

HD-G2 blackbox automatically recalculates the route if you deviate from the proposed itinerary.

4.1.5 Smart Zoom

Smart Zoom provides the following features:

- **While following a route:** When approaching a turn, it zooms in and raises the view angle to let you easily recognise your next manoeuvre. If the next turn is at a distance, it zooms out and lowers the view angle to be flat so you can see the road in front of you.
- **While driving without a planned route:** Smart Zoom zooms in if you drive slowly and zooms out when you drive at a high speed.

4.1.6 Speed limit warning


Maps may contain information about the speed limits of the road segments. HD-G2 blackbox is able to warn you if you exceed the current limit. This information may not be available for your region, or may not be fully correct for all roads on the map.

The maximum speed set in the vehicle profile (page 71) is also used for this warning. HD-G2 blackbox alerts you if you exceed the pre-set value even if the legal speed limit is higher.

Speed warning can be fine-tuned in Warnings. See page 77.

You can also set the relative speed tolerance above which the application initiates the warning.

The following warning types are available:

- Audio warning: You receive a verbal warning when you exceed the speed limit with the given percentage.
- Visual warning: The current speed limit is shown on the map when you exceed it (for example ).

You can also choose to see the speed limit sign on the map all the time.

4.1.7 Intelligent navigation

With the help of intelligent navigation, the planned route can adapt to traffic and other changes during navigation. The following sections describe these features.

4.1.7.1 Congestion detour on highways

HD-G2 blackbox may offer a detour when you slow down on a highway due to a traffic jam. The Potential congestion detour window appears and shows the length and duration of the detour.



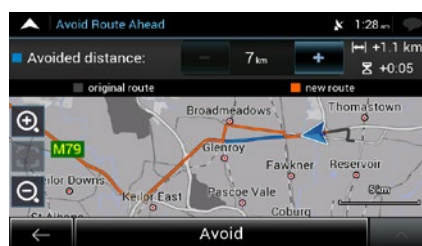
You can ignore this message and keep the original route by tapping

Dismiss

or

you can check the suggested route by tapping

Preview



By tapping the plus/minus signs, you can increase or decrease the distance to avoid on the highway.

You can accept the recommended detour by tapping

Avoid

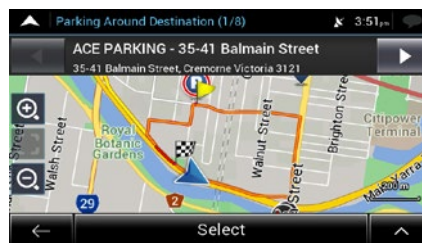
4.1.7.2 Real-time alternative routes

HD-G2 blackbox may offer an alternative route on normal roads in case of a traffic jam. The possible alternative route window appears and shows the length and duration of the detour.

You can ignore this message and keep the original route by tapping **Dismiss** or you can check the suggested route by tapping **Preview**. You can accept the recommended detour by tapping **Accept**.

4.1.7.3 Parking around destination

If you leave the planned route by exiting a motorway, HD-G2 blackbox tries to guess the reason for making a detour. By tapping **P**, you can open a top-down map with the recommended parking Places around the destination. By tapping the arrows on the sides, you can switch between the recommended parking facilities.



By tapping **Select** and **Park Here**, the selected parking place becomes your destination.

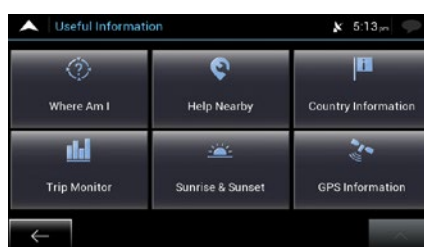
4.1.7.4 Hints upon detour

If you leave the planned route by exiting a motorway, HD-G2 blackbox tries to guess the reason for making a detour. The Reason for detour window appears and shows available petrol stations, restaurants or other Places around the current position. Also, if there are avoidable parts of the original route ahead (like a tunnel, a toll road or a ferry), you can find them in the list, in case you want to bypass them.

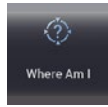
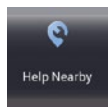
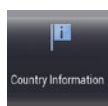
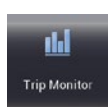




By tapping one of the Places, HD-G2 blackbox creates a waypoint and navigates you to the selected place. You can ignore them by tapping **Cancel**.

4.2 Useful Information menu

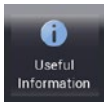
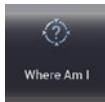


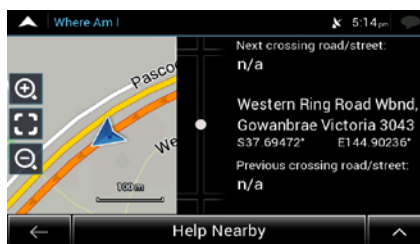
The Useful Information menu provides various additional functions. It can be found in the Navigation menu.

Button	Description
	Shows information on the current position (latitude, longitude, nearest town, next crossing street, and so on) or the last known position if GPS reception is not available. See page 67.
	Offers assistance near your current position. See page 41.
	Offers a list of countries with useful driving information about the selected country (for example speed limits, maximum blood alcohol level).
	Shows statistical data of your trips, like the start time, end time and average speed, see page 68. Track logs, the sequence of the positions given by the GPS receiver, can be saved together with the trip logs. They can later be displayed on the map.
	Shows the exact sunrise and sunset times for all your route points.
	Shows the GPS Information screen with satellite position and signal strength information.

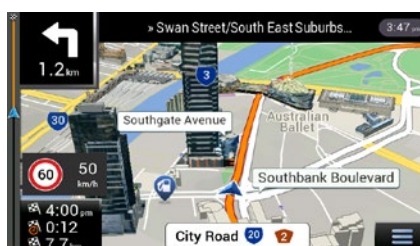
4.2.1 Where Am I

This screen contains information about the current position (or about the last known position if GPS reception is not available). You can access it the following two ways:

- By going to the Navigation menu and tapping  and .





- By tapping the current street name if it is displayed below the current position marker on the map.

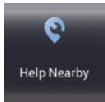


The following information is shown on the Where Am I screen:

- Address details (when available) of the current position
- Latitude and Longitude (coordinate of the current position in WGS84 format)
- The nearest town
- Next crossing road/street
- Previous crossing road/street.



You can also perform some actions on this screen.


Tap  and  to add the current position to the saved locations and to check the country information.




You can also search for assistance near your current position. Tap  to open a new screen for quick search and select a category. For detailed information, see page 41.

4.2.2 Trip Monitor

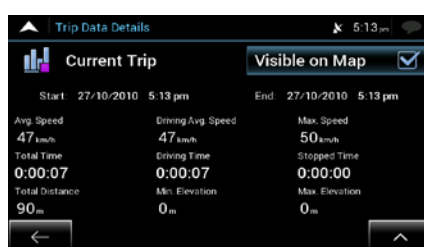
Trip Monitor logs information about your route.


You can record a new trip by tapping  and stop it by tapping .

By tapping  on the Trip Monitor screen, you can select the following options:

Button	Function
	By selecting a recorded trip, you can delete, rename, or change the colour of the recorded route.
	You can export all logs into the sdmmc folder.
	You can access the Trip Monitor Settings, where you can enable saving the trip logs automatically or you can save the trip logs manually. See page 81.


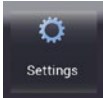
By tapping your recorded trip on the Trip Monitor screen, you can check information such as time, speed, altitude and distance.



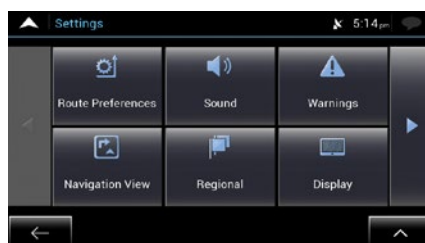
By tapping  on the Trip Data Details screen, you can view the trip on the map, export track logs, and check the elevation and speed profiles.


4.3 Settings menu

You can configure the navigation settings, and modify the behaviour of HD-G2 blackbox, by

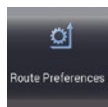
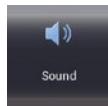
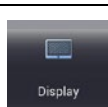
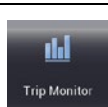
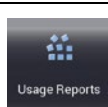
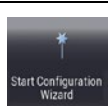
tapping  and .

Tap the arrows to view the content of other pages.






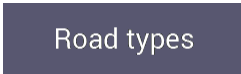
 **Note!** Changing some of these settings may not have an effect in your current region if the map data do not contain the required information.

The Settings menu provides the following options:

Button	Function
	Select the type of vehicle you are driving, the road types used in route planning, and the route planning method.
	Adjust the different sound volumes.
	Enable and set up warnings for speed limit, Alert Points (such as speed cameras), and road signs.
	Fine-tune the appearance of the Navigation view or adjust how the software helps you navigate with different kinds of route-related information on the Navigation view.
	Change the voice guidance language, set the time zone, the measurement units, the time and date formats, and customise the application for your local language.
	Enable or disable menu animations.
	Turn the automatic trip log saving on or off and check the current size of the trip database.
	Collects usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. Tap this button to enable or disable collecting these data.
	Modify the basic software parameters set during the initial set-up process. See page 5.



4.3.1 Route preferences settings






The following settings determine how routes are calculated:

Button	Function
 Vehicle	Set the type of vehicle you want to use to navigate the route. Based on this setting, some of the road types can be excluded from the route, or some of the restrictions may not be taken into account in route calculation. See page 71. Edit the parameters of the vehicle profile. See page 71.
 Route Planning Method	Optimise the route calculation for different situations and vehicle types by changing the planning method. See page 73.
 Navigation Mode On-road	Select on-road or off-road navigation. See page 61.
 Road types	Select your preferred road types for the route. See page 74.

4.3.1.1 Vehicle profile



You can select the following vehicle types:

Button	Description
 Car	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 if they are inevitable to reach 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 for 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 walking speed is used when calculating the estimated time of arrival.

 Bicycle	<p>Manoeuvre restrictions and directional constraints (if they are applied to bicycles in the map data) are taken into account when planning a route.</p> <p>Roads are used only if access for bicycles or pedestrians is allowed.</p> <p>Controlled-access roads are excluded from routes.</p> <p>A private road is used only if the destination is there.</p> <p>Speed limits are not used in route calculation and an average cycling speed is used when calculating the estimated time of arrival.</p>
 Emergency	<p>All manoeuvres are available in intersections.</p> <p>One-way streets are taken into account so that driving in the opposite direction is allowed at low speed.</p> <p>A private road is used only if the destination is there.</p> <p>Walkways are excluded from routes.</p>
 Bus	<p>Manoeuvre restrictions and one-way streets are taken into account when planning a route.</p> <p>Roads are used only if access for buses is allowed.</p> <p>Private roads, resident-only roads and walkways are excluded from routes.</p>
 Taxi	<p>Manoeuvre restrictions and one-way streets are taken into account when planning a route.</p> <p>Roads are used only if access for taxis is allowed.</p> <p>Private roads, resident-only roads and walkways are excluded from routes.</p>
 Truck	<p>Manoeuvre restrictions and one-way streets are taken into account when planning a route.</p> <p>Roads are used only if access for lorries is allowed.</p> <p>Private roads, resident-only roads and walkways are excluded from routes.</p> <p>U-turns are excluded from routes (turning back on a divided road is not considered as a U-turn).</p> <p>If the map contains data on dimension, weight and freight restrictions, they can also be taken into account when planning a route.</p>




Creating a profile makes it possible to set up vehicle parameters used in route planning. You can have several profiles for the same vehicle.

To add a new vehicle profile, perform the following steps:

1. Tap , browse the list of vehicles, and tap .
2. Select the vehicle type and set the parameters below. Depending on the vehicle type, some parameters may not be available in the list.

You can set the following parameters:

Button	Function
Name	Rename the profile for something meaningful, for example John's car.
Max. Speed	Set the maximum speed you travel at.
Fuel Consumption Urban	Enter the average consumption of your vehicle in built-up areas. The unit for consumption can be set in Regional Settings.
Fuel Consumption Rural	Enter the average consumption of your vehicle on highways. The unit for consumption can be set in Regional Settings.
Engine Type	Select the engine and fuel type of your vehicle. It helps estimate the CO ₂ emission.

To reset all vehicle profiles to their default settings, tap , , and .



4.3.1.2 Route Planning Method types

You can select from the following route planning method types:

Button	Description
Fast	Gives a quick route if you can travel at or near the speed limit on all roads. Usually, the best selection for fast and normal cars.
Easy	Results in a route with fewer turns and no difficult manoeuvres. With this option, you can make HD-G2 blackbox take, for example, the motorway instead of a series of smaller roads or streets.
Short	Gives a short route to minimise the travel distance. Usually optimal for pedestrians, cyclists or slow vehicles. Searching for a short route regardless of the speed, this route type is rarely optimal for normal vehicles.
Economical	For vehicle types where Green routing is not available, this method combines the benefits of Fast and Short. HD-G2 blackbox calculates as if it were calculating the Fast route, but it takes other roads as well to save fuel.

 **Note!** Depending on the vehicle type, some methods may not be available.

4.3.1.3 Navigation Mode








You can switch between on-road and off-road navigation by tapping  and selecting  or  (page 61).

4.3.1.4 Road types

To let the route fit your needs, you can also set which road types are to be considered for or to be excluded from the route.

Excluding a road type is a preference. It does not necessarily mean total prohibition. If your destination can only be accessed using some of the excluded road types, they are used only as much as necessary. In this case, a warning icon is shown on the Route information screen, and the part of the route not matching your preference is displayed in a different colour on the map.

The following road types are available:


Button	Description
 Motorways	You might need to avoid motorways when you are driving a slow car or you are towing another vehicle.
 Road With Period Charge	Charge roads are pay roads where you can purchase a pass or vignette 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	Per-use toll roads are pay roads where there is a per-use charge in the routes by default. If you disable toll roads, HD-G2 blackbox plans the best toll-free route.
 Ferries	HD-G2 blackbox includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.
 Car Shuttle Trains	Car shuttle trains are used to transport vehicles for a relatively short distance and they usually connect places that are not easily accessible on a road, for example, in Switzerland.
 Unsealed Roads	HD-G2 blackbox excludes unpaved roads by default. Unpaved roads can be in a bad condition and you usually cannot reach the speed limit on them.
 4WD Tracks	4WD tracks are dirt roads of very poor condition. They can only be driven by 4WD vehicles. HD-G2 blackbox Excludes 4WD tracks by default.

4.3.2 Sound settings

You can modify the following settings:

Button	Function
Master	This is the main volume control. Adjust all the sound types below or mute them.
Voice	Adjust the volume of the guidance sounds (verbal instructions) or mute it.
Alerts	Adjust the volume of the non-verbal alert sounds (beeps) or mute it.
Ding	Turn off the attention tone preceding verbal instructions or adjust its volume.
Keys	Adjust the volume or mute the sound played when pressing the button.

You have the following options for each sound type:

Button	Function
Volume slider	Adjust the volume of the related sound.
	Mute the related sound. The slider becomes inactive. Tap again to re-enable it.

Button	Function
Voice guidance	Disable verbal instructions. This function is enabled by default.
Announce Streets and Roads in Native Language Area	Choose from the following options: <ul style="list-style-type: none">• Announce the street names in the native language area of the selected voice guidance language.• Announce the road numbers only.• Announce the manoeuvres only.

Announce Streets and Roads in Foreign Language Area	<p>Street names sound correct only if you use a native voice profile for the country. Choose from the following options:</p> <ul style="list-style-type: none"> • Try to read the street names in a foreign country. • Announce the road numbers only. • Announce the manoeuvre only.
Early Indication of Manoeuvres	<p>Set whether you want an immediate announcement for the next manoeuvre after each turn, or it is enough to receive the information when the turn is near.</p>
Verbosity Level	<p>Set the verbosity of the voice instructions, that is how much they tell and how often they speak.</p> <ul style="list-style-type: none"> • Minimal: the voice instruction is given once right before the next manoeuvre. • Medium: the voice instruction is given when approaching the next manoeuvre and it is repeated right before the manoeuvre. • Verbose: the voice instruction is given first relatively far from the next manoeuvre, it is repeated when approaching the next turn, and it is repeated again right before the actual manoeuvre.
Announce Route Summary	<p>Allow reading out a quick summary of the route whenever a route is calculated.</p>
Announce Country Info	<p>Allow reading out information about the country you have entered, when you cross country borders.</p>
Announce System Messages	<p>Allow announcing system messages.</p>

4.3.3 Warnings settings

You can enable and modify the following settings:

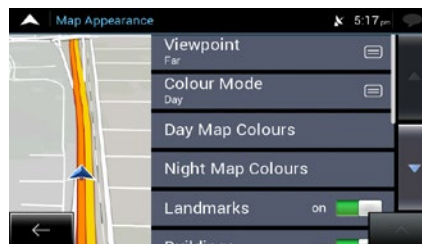
Button	Description
Speed Limit	<p>HD-G2 blackbox is able to warn you if you exceed the current speed limit. This information may not be available in your region, or may not be fully correct for all roads on the map.</p> <p>The maximum speed set in the vehicle profile is also used for this warning. HD-G2 blackbox alerts you if you exceed the pre-set value even if the legal speed limit is higher.</p> <p>This setting lets you decide whether you wish to receive visible and/or audible warnings.</p> <p>The following warning types are available:</p> <ul style="list-style-type: none">• Visual warning: the current speed limit is shown on the map when you exceed it.• Audio and Visual warning: besides the current speed limit being shown on the map, you also receive a verbal warning when you exceed the speed limit with the set percentage. <p>If you prefer to see the speed limit sign on the map all the time (normally, it is shown only if you exceed the limit), you can set it here.</p> <p>You can also set the relative speed above which the application initiates the warning by adjusting a slider. The value can be different within and outside towns.</p>
Alert Points	<p>Tap it to receive a warning when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it.</p> <p>You can set the warning type for the different Alert Point categories (alert types) individually. The following warning types are available:</p> <ul style="list-style-type: none">• Visual warning: the type of the Alert Point, its distance, and the related speed limit appear on the Navigation view while you are approaching one of these locations.• Audio and Visual warning: besides the visual alert, beeps are played (when using a natural voice) or the type of the alert is announced (in case of a TTS voice) while you are approaching one of these points, and an extra alert warns you if you exceed the given speed limit while approaching. <p>For some of the Alert Points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.</p> <ul style="list-style-type: none">• Only when speeding: The audio warning is only played when you exceed the given speed limit.• When approaching: The audio warning is always played when approaching one of these Alert Points. In order to draw your attention, the audio alert is different when you exceed the speed limit.

Road Signs	Maps may contain driver alert information that can be shown on the Navigation view in a similar way as real-life road signs. Tap it to enable or disable the warning for these road segments (for example, dangers and sharp curves). For each category of warning signs, set the warning type (visual or audio and visual) and the distance from the hazard to receive the warning at.
------------	---

4.3.4 Navigation View settings

These settings allow you to fine-tune the appearance of the Navigation view. You can also adjust how the software helps you navigate with different kinds of route-related information on the Navigation view.

Tap **Map Appearance** to adjust the navigation view to your needs, choose suitable colour themes from the list for both daytime and nighttime use, show or hide 3D buildings, landmarks, and manage your Place visibility sets (which Places to show on the map).



You can modify the following settings:

Button	Function
Viewpoint Normal	Adjust the basic zoom and tilt levels to your needs. Three levels are available.
Colour Mode Auto	Switch between daytime and night colour modes or let the software switch between the two modes automatically a few minutes before sunrise and a few minutes after sunset.
Day Map Colours	Select the colour scheme used in daytime mode. Daytime colours are bright and similar to paper road maps.
Night Map Colours	Select the colour scheme used in night mode. Night colours are darker to keep the average brightness of the screen low.
Landmarks	Show or hide 3D landmarks (3D representations of prominent or well-known objects).
Buildings	Show or hide 3D city models (3D block representation of full city building data containing actual building size and position on the map).

3D terrain	Show or hide the 3D elevation of the terrain.
Track Logs	Turn on Track Logs to show them on the map or turn them off.
Place Markers	Select which Places to show on the map while navigating. Too many Places make the map crowded so it is a good idea to keep as few of them on the map as possible. Tap the name of the Place category to show/hide it or to open the list of its subcategories.


You can modify the following additional settings on the Navigation View screen:

Data Fields	If you are navigating with a planned route, you can set three data fields to be displayed on the Navigation view. You can choose from the time of arrival at destination, distance to destination, time to destination, time of arrival at waypoint, distance to waypoint, time to waypoint, heading, or altitude. Without a planned route, there is only one data field that can be set to show the heading or the altitude.
Route Progress Bar	Turn the Route Progress Bar on or off. If turned on, an orange line is displayed on the side of the screen, and a blue arrow on it shows your progress.
Offer Motorway Services	Turn it on to get motorway service information (for example petrol stations, restaurants) or turn it off if you do not need it.
Services Displayed	Select the service types displayed for the motorway exits. Choose from the Places categories.
Automatic Overview	Zoom out and show an overview of the surrounding area if the next manoeuvre is far and you are driving on a motorway. When you get close to the event, the normal map view returns.
Signposts	Whenever adequate information is available, lane information similar to the real ones on road signs above the road is displayed at the top of the map. Tap it to turn this feature on or off.
Junction View	If you are approaching a motorway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. Tap it to turn this feature on or let the map be displayed for the whole route.
Tunnel View	When entering tunnels, the surface roads and buildings can be disturbing. Tap it to show a generic picture of a tunnel instead of the map. A top-down overview of the tunnel and the remaining distance are also displayed.

Offer Congestion Detour on Highways	In certain situations, HD-G2 blackbox offers a detour when there is a traffic jam on a highway. See page 65.
Offer Real Time Alternative Routes	In certain situations, HD-G2 blackbox offers an alternative route when there is a traffic jam on the road. See page 65.
Offer Parking Around Destination	In certain situations, HD-G2 blackbox offers parking Places when you approach your destination. See page 66.
Offer Hints Upon Detour	In certain situations, HD-G2 blackbox offers different route alternatives when you leave the planned route and suddenly exit the motorway. See page 66.

4.3.5 Regional settings

You can modify the following settings:

Button	Description
Language	It displays the current written language of the user interface. Tap it to select a new language from the list of available languages. The application restarts after you change this setting and confirm it.
Voice Language	<p>It shows the current voice guidance profile. Tap it to select a new profile from the list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap  when you have selected the new spoken language.</p> <p>Different voice profiles are capable of different levels of service:</p> <ul style="list-style-type: none"> • Natural Voice (street names not announced): These pre-recorded sounds can only tell you basic information about turns and distances. • TTS Voice (street names announced): These computed voices can read out complex instructions, street names or system messages.
Units and Formats	You can set the measurement units and time/date format to be used. HD-G2 blackbox may not support all the listed units in some voice guidance languages.
Time Zone	By default, the time zone is taken from the map information and adjusted by your current location. Here you can manually set the time zone and the daylight saving time.

4.3.6 Display settings

You can modify the following settings:

Button	Function
Menu Animation	When animation is turned on, buttons on menus and keyboard screens, and screen transitions are animated.

4.3.7 Trip Monitor settings

Trip logs contain useful information about your recorded trips. You can enable and modify the following settings:

Button	Description
Enable auto-saving	Trip monitor can record statistical data of your trips. If you need these logs later, you can let the application save them automatically for you.
Save track log	Track logs, the sequence of the positions given by the GPS receiver, can be saved together with trip logs. They can later be displayed on the map. You can let the application save track logs whenever it saves a trip.
Trip database size	This is not a button. This line shows the current size of the trip database, the sum of all trip and track logs saved.

4.3.8 Usage Reports settings

If you enable it when first using the application, it collects usage information and GPS track logs that may be used for improving the application and the quality and coverage of maps. Data are processed anonymously; no one is able to track any personal information.

You can enable or disable collecting the following logs:

Button	Description
Application Usage Information	Anonymous statistical information on using the navigation software is collected for later development purposes. Understanding how different people use the application can help us improve the user interface and the program workflow.

<p>GPS Tracks</p>	<p>Anonymous track logs are sometimes used for providing real-time information service. Your trips can also help us improve the quality and coverage of maps.</p>
-------------------	---

5 Troubleshooting

This section offers possible solutions to issues that may occur during the operation of HD-G2 blackbox.

5.1 GPS signal cannot be received

Issue: The current location is not available, because GPS signal cannot be received.

Cause 1: GPS signal is weak or may not be available if you are between tall buildings, in garages or tunnels as the signal weakens or distorts as it travels through solid material.

Solution 1: Go to a place where there is a clear sight of the sky or at least a bigger part of the sky is visible.

Cause 2: It may take several minutes to receive GPS signals when first using HD-G2 blackbox, or when your last known position is farther away from your current position.

Solution 2: Wait a few minutes for the GPS signal.

5.2 Address cannot be found

Issue: HD-G2 blackbox cannot find the address you entered.

Cause: The digital map data may not include every single address.

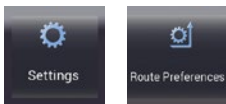
Solution 1: If the house number is not known or HD-G2 blackbox cannot find it, select only the street name. This way, HD-G2 blackbox will navigate you to the midpoint of the street, where you can find the exact address more easily.

Solution 2: Search for another address that is close to the destination.

Solution 3: Search for the coordinates or a nearby Place of Interest.


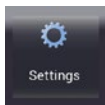

5.3 The calculated route is not optimal




Issue: The planned route is too long or includes several minor roads.



Cause: In ,  the route planning method is not set to the optimal parameter.

Solution: Select your preferred route planning method by performing the following steps:

1. Tap , , and .

2. Tap  and select your preferred route, for example  or . See Page 73.


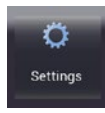
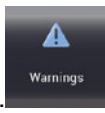





5.4 Disabling the speed limit warning

Issue: The speed limit warning is signalling even when the actual speed limit is kept.

Cause: The speed limit in the digital map data might differ from the actual speed limit of your current location.

Solution: Disable the speed warning by performing the following steps:

1. Tap , , and .
2. Tap ,  and .

5.5 Keyboard buttons are greyed out

Issue: Some keyboard buttons are greyed out and cannot be used.



Cause: HD-G2 blackbox has a smart keyboard for address search, which means that only those buttons are active that can be used to type a name that is available on the map.

Solution: Check if you entered the name correctly. If the name is correct, then the address you are looking for is not available in the digital map data.

5.6 The map is hidden behind an image of a junction

Issue: The map is not visible because it is hidden behind an image of a junction.



Cause: If you are approaching a motorway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows.

Solution: If you want to hide the currently displayed junction and return to the Navigation view, tap the picture. To turn off this feature, perform the following steps:

1. Tap ,  Settings, and  Navigation View.
2. Tap  Junction View. Now the junction view will not appear again.

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7 Copyright note

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Advanced ICE Hema 4WD Navigation Manual



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Safety Notes

Safety while Operating the Device

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

- Never 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.
- The route calculated by the navigation device is a suggested route and used for reference 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

While the Advanced ICE Hema 4WD Nav is a valuable aid for navigation, it is only that - an aid - and as such 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 wise to pay attention to road signs, particularly where those signs advise of serious hazards, such as local flooding etc.

Backing Up Your Data

During use, the 4WD Nav will accumulate some data automatically (such as 4WD track logs), and you may also create data yourself (such as OziExplorer waypoints).

Examples of this data could be:

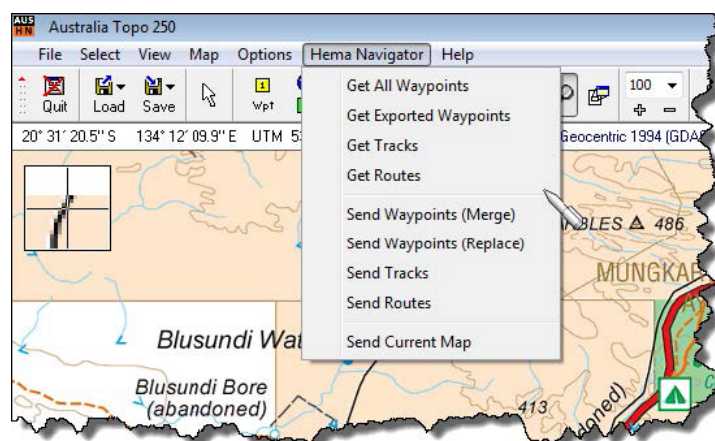
- Waypoints in OziExplorer
- Track logs in OziExplorer

Where is the data stored, and how can I make a copy of it?

OziExplorer stores user data in on the SD card

The OziExplorer program for PC, which you can install from www.ozieplorer.com (you may be required to purchase the full version), allows you to transfer OziExplorer data from your SD card to your Windows PC. The following options available from the File/Load from File menu allow transfer of data from your unit to your PC:

- Waypoints
- Tracks
- Routes



The OziExplorer application contains detailed in-built help covering these functions.

4WD Nav

Introduction

The 4WD Nav function uses the OziExplorer application to provide an exceptional user experience during offroad navigation.

The OziExplorer interface has been customised using the OziExplorer Screen Designer tool, in an effort to make the software more accessible and enjoyable during use.

To begin 4WD Nav, tap the 4WD Nav button **A** from the Navigation Menu pictured below. **Note:** Your device will automatically boot into iGo Primo (Street) mapping as this controls both the time and brightness of your device. To access the below options screen, you must exit the Street Navigation using the power button on the bottom left of the screen.



OziExplorer will display a splash screen during start-up, as shown below. Status messages are displayed in the lower left corner of the screen during start-up.



Getting to Know OziExplorer

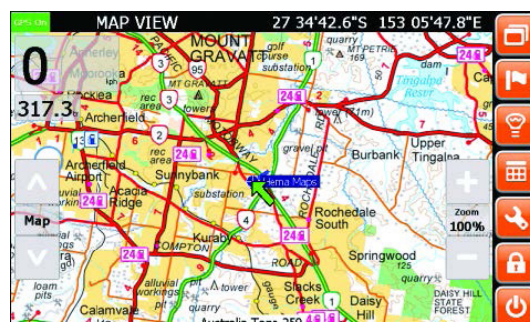
A typical OziExplorer screen is shown here (in this case the Map View page).

It is possible that OziExplorer will display the GPS Status page prior to this screen. It will display the GPS Status screen while it is waiting to get a GPS Satellite fix.

Once OziExplorer has got a GPS fix on your position, it will show your current position indicated by the central Arrow you see in the image above. As you drive around, OziExplorer will move the map under the pointer indicating your position. This is known as "moving map" display.

As you drive, OziExplorer will leave a blue line behind the pointer. This is the Track Tail. The track tail shows you where you have been. Information such as current speed, coordinates of current location, zoom level and map title are displayed over the map. It also has buttons which you can tap to perform various functions.

This image below shows some of the key features of the OziExplorer display.



- A Status Bar:**
Shows the current GPS status, the name of the currently displayed page, and the current latitude and longitude.
- B Standard Toolbar:**
Contains buttons for commonly used functions
- C Page Specific Toolbar:**
Contains buttons specific to the current page



Map Overlay Information & Buttons

In addition to the standard tool bar, the following buttons and information panels are displayed along with the map.

- A GPS Status Indicator:**
Shows whether the GPS is ON or OFF.
- B Page Title:**
The name of the currently displayed page
- C Latitude/Longitude:**
Current Position
- D Speed Indicator:**
The current speed (by default in Kilometres per hour)
- E Heading Indicator:**
The current heading (by default in true degrees)
- F Map Select Up Button:**
Select next map up in found maps list (generally, change to more detailed map)
- G Map Select Button:**
Open the Maps Found window, showing maps loaded on device for the current location
- H Map Select Down Button:**
Select next map down in found maps list (generally, change to less detailed map)
- I Zoom + Button:**
Increase zoom (magnification) of current map
- J Current Zoom Level:**
Current zoom (or magnification) level of displayed map
- K Zoom - Button:**
The map name of currently loaded / displayed map
- L Map Name:**
Select next map down in found maps list (generally, change to less detailed map)
- M Position Pointer / Cursor:**
The current GPS position or cursor position (pointer changes to cursor when GPS is OFF).



Standard Toolbar

The OziExplorer Standard Toolbar consists of the following elements:



Select Page Button:

Used to change pages within OziExplorer.



Add Waypoint Button

Add a waypoint at the current location on any map display page



Home Button:

Press this button to go straight to the Map View page.



Popup Toolbar Button:

Alternately shows / hides the popup toolbar



Settings Button

Opens the Settings page allowing modification of program settings



GPS OFF/ON Button:

Alternately turns OFF and ON GPS tracking

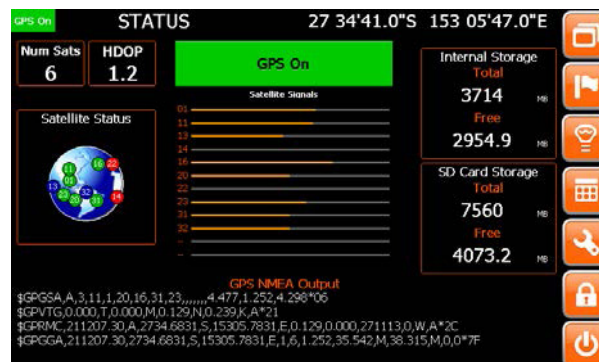


Exit Button:

Exits the program back to the Navigator Main Menu

As well as the Standard Toolbar, the program may display a toolbar located along the bottom of the screen. The contents of these toolbars will vary depending on the currently selected / displayed page.

Acquiring a GPS Satellite Fix



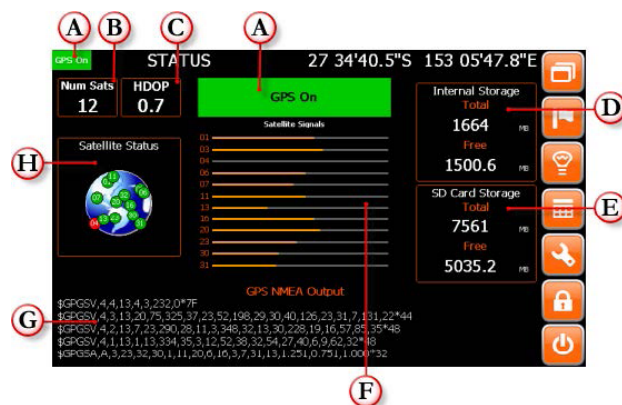
In order for the Navigator to find your current location, it requires a GPS satellite fix. To acquire a GPS fix, it is important that you are in area open to the sky (not inside an enclosed building) and away from tall buildings and trees. The initial fix may take anywhere from 2 to 5 minutes.

The length of time to obtain a fix will be reduced the next time the navigation software is started in a similar location. The screen above shows the Status Page when there is no satellite fix present.

When OziExplorer starts, the Status page will appear, displaying the GPS status and the number of currently visible satellites. Once a fix is acquired, OziExplorer will bring up a map of your location. It is then possible to select a more or less detailed map as required.

GPS

- A GPS Status Indicator:**
Shows whether the internal GPS is currently active.
- B Num Stats:**
The name of the currently displayed page
- C HDOP:**
Horizontal Dilution of Precision - An indication of horizontal positioning accuracy
- D Internal Storage:**
As the Advanced ICE Hema 4WD Nav uses only the SD card, this will also show the total / free space on the SD card
- E SD Card Storage:**
Shows total / free space on the SD card
- F Satellite Signals:**
Shows numbered satellites and relative signal strengths for visible satellites
- G NMEA Output:**
Shows raw NMEA GPS data coming directly from the GPS
- H Satellite Status:**
Shows sky map with visible satellites



Page Selection

Within OziExplorer, there are multiple pages (or screens) which you can access which provide specific views and /or functions while using OziExplorer.

Every page has the standard toolbar located on the right-hand side of the screen, but different pages may have a page-specific toolbar located at the bottom of the screen.

 Every page has the standard toolbar located on the right-hand side of the screen, but different pages may have a page-specific toolbar located at the bottom of the screen.



NOTE: The buttons shown in the Select Page window will vary depending on your particular configuration. Pages can be turned on or off using the Display Pages option on the settings page.

Pages and Their Functions

Map View

The main view within OziExplorer which gives the most amount of screen real estate to the actual map.

Maps

Display similar to Map View, but has a bottom toolbar allowing access to functions related to Maps.

Waypoints

Similar to Map View, but has a bottom toolbar allowing access to functions related to Waypoints.

Waypoint Nav

Similar to Map View, but has information about the next Waypoint at the bottom of the screen for use during Waypoint navigation.

Tracks

Similar to Map View, but has a bottom toolbar allowing access to functions related to Tracks.

Routes

Similar to Map View, but has a bottom toolbar allowing access to functions related to Routes.

Route Nav

Similar to Map View, but has Next Waypoint data fields at the lower border of the map panel for use during Route navigation.

Altitude

Similar to Map View page, but contains Altitude data fields at the lower border of the map panel.

Meters

Contains trip meter, multiple odometers, and altitude information.

Note: This page is turned off in the default configuration.

Statistics

Contains some additional parameters related to Time, Speed and Acceleration.

Note: This page is turned off in the default configuration.

Profiles

Contains graphs showing Speed and Altitude over time.

Note: This page is turned off in the default configuration.

Status

Displays the current status of the GPS and satellites, along with information on internal and SD card storage usage.

Settings

Contains buttons allowing the customisation of OziExplorer.

Opening a Map



NOTE: Before attempting to open a map, it is necessary to switch off GPS reception by tapping the GPS Lock button on the right-hand toolbar.



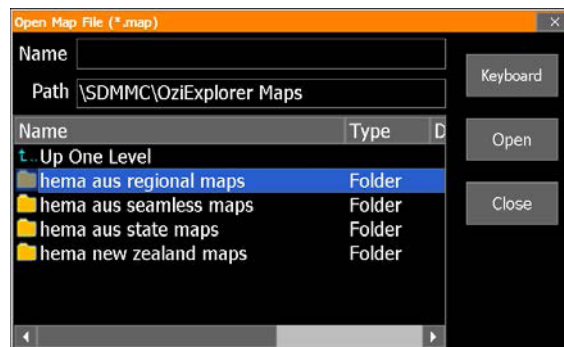
To switch to the **Maps** page, tap Select **Page**



Tap **Maps**



Map files may be opened by selecting the **Open Map** button on the bottom toolbar from the Maps page.



The **Open Map File window** will appear. Drill down to the required map by navigating the directory/file structure until the required map is found. Double-tap to open the required folder or alternatively, tap the folder and tap the Open button.

Note: Some folders may contain sub-folders with maps.

OziExplorer Menus feature the following “finger control” buttons:

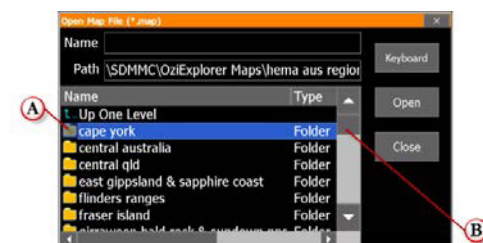


Close: Tap to **X** exit a menu.

Keyboard: Tap to launch the keyboard and tap to close the Keyboard. Used to name waypoints, routes and tracks and for name search.

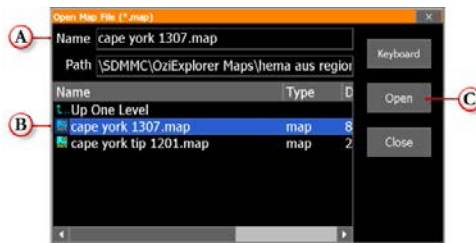
Open: Tap to Open a map or data such as waypoints, routes and tracks.

Close: Tap to exit a menu (the same function as **X**)



A - Double-tap to open the sub-folder:

B - Scroll up and down the list of maps using the scrollbar.



- A** - Name of currently selected map.
- B** - Double-tap to open the selected map file. *Alternatively,* single-tap to highlight the map, then tap the Open button **C**.

The view you see in the Open Map File window will depend on which maps you have installed on your 4WD Nav. You may see files, folders or a combination of both.

Adding Waypoints

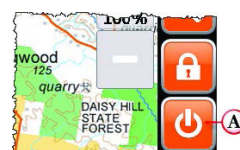


The **Add Waypoint button** is accessible from any page within OziExplorer. The Add Waypoint button will instantly add a waypoint at the current cursor position on the map. Note that the Add Waypoint button will not have any effect when the current page does not contain the map panel. The cursor position is either the arrow showing your current position if you have a GPS fix, or the crosshair cursor if either GPS tracking is switched off or you do not have a GPS fix.

Exiting 4WD Nav

Tap the **Exit button** on the Standard Toolbar

- A** To Exit OziExplorer and return to the Advanced ICE Navigation Option Menu.



Important Information

One of the goals of the Advanced ICE Hema 4WD Nav is to provide customers with the most complete and accurate cartography that is available to us at reasonable cost. Along with Hema's extensive field work, Hema uses a combination of governmental and private data sources, which we identify in product literature and copyright messages displayed to the consumer. Virtually all data sources contain some inaccurate or incomplete data. In some areas, complete and accurate map information is either not available or is prohibitively expensive.

How to Add Your Own Maps

Important Information

- **Please ensure that any maps that are added are *OZICE compatible*.**
- **Please note:- Advanced ICE cannot provide any technical support or advice as to how to ensure compatibility of third party maps.**
- ***If you add maps that are not compatible, this will void all warranty for the MicroSD Card. In the event that adding third party maps affects other hardware which then needs to be returned to Advanced ICE for assessment, testing, repair or replacement, this will not be covered under warranty and services charges will apply.***
- **Each Navigation license is tied to a specific MicroSD card. Please do not attempt to modify or add anything to the Street Navigation content on the MicroSD card. Modified MicroSD cards may be unrecoverable, in which case a replacement MicroSD card with a new navigation license will need to be purchased by the end user.**

What You Need

- **PC or Notebook** with Windows XP (Service Pack 2) or higher and equipped with an SD Card Port or an SD to USB adapter (*for more information on adapter, see page 100*).

Instructions

- Read “Important Information” at the top of this page before proceeding.
- Follow the instructions on page 100 for locating the NAV card and connecting it to your computer.
- Once connected to your computer, open Windows Explorer and locate the MicroSD Card folder in the root directory.
- All the provided Hema Maps are located in the “OziExplorer Maps” folder on the root directory of the MicroSD Card.
- We recommend any third party maps are added to the above folder so they can be easily found when using your device. Please note:- Extra sub-folders can be created within the “OziExplorer Maps” folder for you to add third party maps if desired.

Advanced ICE Hema 4WD Nav License Agreement

The following is the Licence Agreement for the Hema 4WD Nav Solution. Please read this agreement carefully before proceeding. The Hema 4WD Nav Solution ("Hema 4WD Nav") is licensed, not sold, to You for use only under the terms of this license. It contains warranty and liability disclaimers which you should read.

1. Scope of Licence granted

- 1.1 Subject to the usage rules and restrictions in clauses 2 and 3, we grant you a non-exclusive, non-transferable license to:
- a) Use the Hema 4WD Nav on the Advanced ICE device that You own or control for Your own fair and reasonable personal or business use;
 - b) Backup the Hema 4WD Nav and Your Data from any device that you own, to any personal computer that you use, to keep for your use. You must not give the backup or copy to anyone else and any such backup or copy is governed by the terms and conditions of this License Agreement.

2. Usage Rules

- 2.1 Always be prepared, drive carefully and travel responsibly. Location data and road conditions are constantly changing, and the Hema 4WD Nav may contain errors, omissions or inaccuracies. Location data or navigational information is provided as a general guide only and is not intended to be relied upon as a sole means of navigation or in situations where precise location information is needed, or where erroneous, inaccurate or incomplete data may lead to death, personal injury, property or environmental damage. You must make your own enquiries in relation to conditions and the availability of fuel, drinking water, supplies and services. Depiction of a road or track in the Hema 4WD Nav is not an assurance of safety or manner of passage or public right of way and information contained in the Hema 4WD Nav does not replace traffic signs, lights, road markings, speed limits and other road rules.
- 2.2 You must take care of your own personal safety, and (if applicable) obey the road rules, at all times. Do not operate the Hema 4WD Nav while driving. Do not use or operate any mode of transport or attempt any journey while under the influence of alcohol or other substances.
- 2.3 You acknowledge that the Content within the Hema 4WD Nav is for planning purposes only and you should make your own enquiries or exercise your own judgment in relation to weather conditions, construction, road closures or other events that may impact on the journey you are undertaking.
- 2.4 You acknowledge that all content within the Hema 4WD Nav is protected by applicable intellectual property and other laws, including but not limited to copyright, and that You will not use such proprietary content in any way whatsoever except for permitted use under these terms and conditions. You also acknowledge that some content may be provided under licence from third party providers and this content is subject to the same intellectual property laws.
- 2.5 The Hema 4WD Nav may enable access to Hema Maps and other third party services. If these are provided, they are done so solely as a convenience to you and may be withdrawn at any time. Access to these services may require internet access, which you will need to arrange and pay for. Internet services may not be available at your location or may be very expensive. Because of the nature of the internet, it is possible that these sites may contain computer viruses or material which you may find offensive. Hema Maps does not warrant or endorse, and disclaims liability to You or any other person, for any third-party services, third-party materials or web sites.

3. Services Provided by Hema Maps

- 3.1 Hema Maps reserves the right to outsource the provision of services to third-parties where it is necessary.
- 3.2 You agree that the form and nature of the Hema 4WD Nav may change from time to time without prior notice being given to You.
- 3.3 Hema Maps reserves the right to change, suspend, remove or disable access to any of the services contained in Hema 4WD Nav at any time without written notice.

4. License restrictions

- 4.1 This license does not permit you, and you agree that you will not (except where we give our express written consent or you are expressly permitted by law) to:
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 - b) use the Hema 4WD Nav on any device other than an Advanced ICE device that is owned or controlled by you. You will not distribute or make the Hema 4WD Nav available over a network where it could be used by multiple devices at the same time;
 - c) digitise or edit the Hema 4WD Nav or take a digital or analogue image, photograph or screenshot of the Hema 4WD Nav, other than for the purpose of seeking technical support from Advanced ICE;
 - d) remove, obscure or interfere with any copyright notice, trademark, warning or disclaimer contained in the Hema 4WD Nav;
 - e) transfer, give, assign, rent, lease, sell, charge, exchange, adapt, decompile, disassemble, create a derivative product or otherwise deal with the Hema 4WD Nav other than in the normal course of use, and subject to this to this Agreement.
 - f) reproduce in any way, copy or extract the Hema 4WD Nav and give, sell, rent, market or distribute it to anyone else;
 - g) copy the Hema 4WD Nav or any data stored onto another storage device other than as expressly permitted by clause 1.1(b);
 - h) without limiting any of the paragraphs (e) to (g) above, copy, or attempt to copy, the location data, names, places, symbols, road markings, layout or other geographical information 25 contained in the Hema 4WD Nav, or use such information or data as a reference to make any other product, or otherwise extract, reverse engineer, decompile, modify, disassemble, attempt to derive the source code of, modify, or create or attempt to create a new or derivative works of or from the Hema 4WD Nav;
 - i) use the Hema 4WD Nav in a manner contrary to any agreement You have with any third party;
 - j) sublicense or assign your rights under this license to anyone.
- 4.2 You acknowledge that the Hema 4WD Nav and its contents (including any data you have stored) contain valuable intellectual property. We may impose further restrictions on your use of the Hema 4WD Nav or the Data at any time, as we deem to be reasonably necessary to protect our intellectual property rights, by the giving of written notice to you.
- 4.3 The Hema 4WD Nav is protected by copyright law and international treaties. Unauthorised reproduction or distribution of this App, or any portion of it, may result in severe criminal and civil penalties and will be prosecuted to the maximum extent possible under law.

5. Ownership

- 5.1 Hema Maps expressly reserves all copyright and any other intellectual property rights to the Hema 4WD Nav and the Hema Explorer Cloud and only grants You a licence to use the Hema 4WD Nav as provided in this Agreement.
- 5.2 Other than as specified herein, You agree that Hema Maps owns the intellectual property rights to the Data, whether in its original form or as modified, printed and/or copied by you.
- 5.3 D&L Software Pty Ltd (ACN 096 504 951) is the developer of the OziExplorer Map Viewing Software and is the owner of the intellectual property rights therein, which are used in the Hema 4WD Nav under licence.
- 5.4 Commonwealth of Australia, Geoscience Australia is the publisher of the base data used under license in the Australia 250K topo map and Australia IM map and is the owner of the intellectual property rights within, which are used in the product under license.
- 5.5 Hema Maps owns the intellectual property rights of and to the additional content contained in the Australia 250K topo map

- 5.6 You acknowledge that Hema is the sole owner and user of the name or words Hema, Hema Maps, Hema Navigator, Hema GPS, Hema 4WD Explorer, Hema Navigator Explorer, Hema Explorer, "Hema Maps will get you there", and "Prepared to Explore." the Hema corporate logo and the Hema "H" icon and You must not use our names or trademarks without our express written permission.

6. Limited warranties

Save to the extent prohibited by law:

- a) while the Hema 4WD Nav has been produced and supplied in good faith, Hema Maps makes no warranty or representation about the availability, accuracy, completeness, reliability or currency of the Hema 4WD Nav or the location data contained therein;
- b) the Hema 4WD Nav and the Data is provided "as is" and "as available", with all faults and without warranty of any kind. Hema Maps disclaims all other warranties, either express or implied, including warranties of merchantability, fitness for purpose or for a particular purpose and non-infringement of third party rights unless such warranties cannot be excluded by law. Hema Maps does not warrant against interference with Your enjoyment of the Hema 4WD Nav, that the Hema 4WD Nav will meet your requirements or that the operations of the Hema 4WD Nav itself or in conjunction with other products will be uninterrupted or error free.
- c) you expressly acknowledge and agree that use of App is at your sole risk and that the entire risk as to suitability, satisfactory quality, reliability, performance, accuracy and effort is with you;
- d) although a third party may provide technical support, Hema Maps does not warrant that technical support will be provided for the Hema 4WD Nav;
- e) no oral or written information or advice given by Hema Maps, agents or employees shall create nor extend existing warranties. You must not rely on any such information or advice unless in writing and signed by an authorised representative of Hema Maps.

7. Limitation of liability

- 7.1 The Hema 4WD Nav displays, includes or makes available content, data, information, applications collected by or supplied by third parties, which may contain errors, omissions, inaccuracies or faults. By using the Hema 4WD Nav, you acknowledge and agree that Hema Maps is not responsible for examining or evaluating the content, quality, currency, accuracy, completeness, legality, or any other aspect of such third party data.
- 7.2 You use and rely on the Hema 4WD Nav entirely at your own risk and should not solely rely on the results or information obtained from the Hema 4WD Nav for any purpose, including navigation.
- 7.3 To the extent not prohibited by law, the liability of Hema Maps for any breach of an express, statutory or implied warranty shall be limited, at its option, to the cost of replacement of the Hema 4WD Nav or a refund of the price paid by You.
- 7.4 To the extent not prohibited by law, Hema Maps shall not be liable for any loss or damage to person or property, or any incidental, special, indirect or consequential damages whatsoever; including without limitation, loss of income, loss of revenue, trade, business, information or profits or any other loss arising from the installation or use of the Hema 4WD Nav or reliance upon any Data (irrespective of whether or not the Data is used in any navigation system or for the purposes of navigation) whether based on breach of contract, tort (including negligence), product liability or otherwise.
- 7.5 Hema Maps shall not be liable for any loss or damage caused as a result of the use of the Australia 250K topo map and Australia IM map however caused.
- 7.6 Hema Maps shall not be liable for any information, advice or technical support given by a third party unless in writing and signed by an authorised representative of Hema Maps.

8. Collection of information and privacy policy

You agree that we may collect and use technical data and related information, including information about your device, system or application software to facilitate the provision of App support, software updates and other services (if any) in connection with the Hema 4WD Nav. We may use this information so long as it is in a form that does not personally identify You, to improve our products or services and so long as our use is in accordance with our Privacy Statement, as available on our website (<http://www.hemamaps.com>) from time to time.

9. General

- 9.1 This Agreement shall be governed by and interpreted in accordance with the laws of the State of Queensland, Australia. You agree to be subject to the legal jurisdiction of the State of Queensland, Australia.
- 9.2 It otherwise contains the final, complete and exclusive agreement between You and Hema Maps and supersedes all prior or contemporaneous agreements, whether written or oral.
- 9.3 A construction of this agreement that results in all provisions being enforceable is to be preferred to a construction that does not so result. If a provision of this agreement remains illegal or unenforceable, and (i) if the provision would not be illegal or unenforceable if a word or words were omitted, that word or those words are severed; and (ii) in any other case, the whole provision is severed; and the remainder of this agreement continues in force.

10. Termination

- 10.1 This agreement remains in force until your rights under this license are terminated by You or us. We may terminate Your license at any time if you fail to comply with any term(s) of this license.
- 10.2 Upon termination of the license, You must cease to use the Hema 4WD Nav and the Data and destroy all copies of the Hema 4WD Nav and the Data.

11. Definitions

- a) "Hema Maps", "we" or "us" means Hema Maps Pty Ltd ACN 010 601 911, whose principal place of business is 25 McKechnie Drive Eight Mile Plains, Queensland, 4113 and the licensor of the Product for the purpose of this agreement.
- b) "You" or "Your" means the individual or organisation purchasing the Product, and the licensee for the purpose of this agreement.
- c) "Data" means the information and materials embodied in machine-readable media on the Hema 4WD Nav including, but not limited to, maps, location data, artwork, illustrations, photographs, images and text.