Clarion®

Navigation Manual

NX706AU

ADVANCED NAVIGATION

English

Navigation

Table of contents

1 Warnings and safety information 5

2 Getting started 6

2.1 Initial set-up 6

2.2 Screen controls 7

2.2.1 Using the buttons and other controls 8

2.2.2 Using the cursor 8

2.2.3 Using the keyboard 8

2.2.4 Using touch gestures 9

2.2.5 Manipulating the map 10

2.3 Navigation view 12

2.3.1 Streets and roads 14

2.3.2 GPS position markers 14

2.3.3 The planned route 14

2.3.4 Turn preview and next street 15

2.3.5 Manoeuvre icons 15

2.3.6 Lane information and signposts 16

2.3.7 Junction view 17

2.3.8 Motorway services 17

2.3.9 3D object types 18

2.4 Navigation menu 18

3 Using the navigation 21

3.1 Selecting a destination 21

3.1.1 Using combined search 21

3.1.2 Selecting an address 24

3.1.2.1 Entering an address with states 24

3.1.2.2 Entering an address starting with the street name 27

3.1.2.3 Selecting a town centre 29

3.1.2.4 Selecting the midpoint of a street 30

3.1.2.5 Selecting an intersection in a town 31

3.1.2.6 Using the postcode to select a destination 32

3.1.3 Selecting a Place of Interest 32

3.1.3.1 Using Quick search categories 33

3.1.3.2 Searching by category 34

3.1.3.3 Searching by name 36

3.1.3.4 Finding help nearby 38

3.1.4 Selecting a Saved Location 39

3.1.5 Selecting a History item 40

3.1.6 Selecting a saved route 41

3.1.7 Entering coordinates 42

3.1.8 Selecting a location on the map 43

3.1.9 Planning a Multipoint Route 44
3.2 Checking Route Information and Alternatives *45*
3.3 Editing the route *46*
3.3.1 Setting a new starting point 47
3.3.2 Adding an additional destination 48
3.3.3 Modifying the list of destinations 48
3.3.4 Saving the planned route 49
3.3.5 Deleting the planned route 50
3.3.6 Selecting a route alternative when planning the route 50
3.3.7 Selecting a route alternative for an existing route 51
3.3.8 Pausing guidance 52
3.4 Saving a location *52*
3.4.1 Editing a saved location 53
3.5 Adding an Alert Point *54*
3.6 Running a Simulation *55*
3.7 Off-road navigation *56*
3.7.1 Switching to off-road navigation 56
3.7.2 Selecting the destination in off-road mode 56
3.7.3 Navigating in off-road mode 56
4 Reference guide 57
4.1 Concepts *57*
4.1.1 2D/3D GPS reception 57
4.1.2 Natural and TTS voices 57
4.1.3 Road safety cameras and other proximity Alert Points 57
4.1.4 Route calculation and recalculation 58
4.1.5 Smart Zoom 58
4.1.6 Speed limit warning 58
4.1.7 Intelligent navigation 59
4.1.7.1 Congestion detour on highways *59*
4.1.7.2 Real-time alternative routes *59*
4.1.7.3 Parking around destination *60*
4.1.7.4 Hints upon detour *60*
4.2 Useful Information menu *61*
4.2.1 Where Am I 61
4.2.2 Trip Monitor 62
4.3 Settings menu *63*
4.3.1 Route preferences settings 64
4.3.1.1 Route Planning Method types *64*
4.3.1.2 Navigation Mode *65*
4.3.1.3 Road types *65*
4.3.2 Sound settings 66

4.3.3 Warnings settings 67
4.3.4 Navigation View settings 68
4.3.5 Regional settings 70
4.3.6 Display settings 71
4.3.7 Trip Monitor settings 71
4.3.8 Usage Reports settings 71
5 Troubleshooting 72
5.1 GPS signal cannot be received 72
5.2 Address cannot be found 72
5.3 The calculated route is not optimal 72
5.4 Disabling the speed limit warning 73
5.5 Keyboard buttons are greyed out 73
5.6 The map is hidden behind an image of a junction 74
6 Index 75
7 Copyright note 77

1 Warnings and safety information

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

Clarion Navigation 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 71).

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, Clarion Navigation changes the instructions accordingly.

2 Getting started

Clarion Navigation is optimised for in-car use. You can use it easily by tapping the screen buttons and the map with your fingertips.

Free Map updates

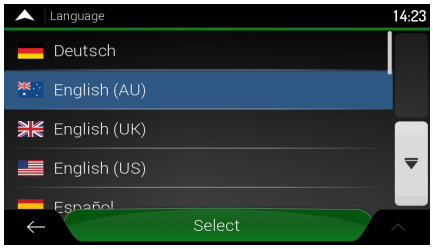
The NX706AU includes map updates for 3 years from first use.

Please visit clarion.naviextras.com

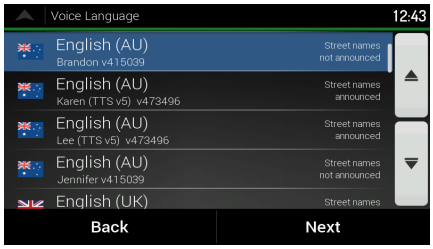
2.1 Initial set-up

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

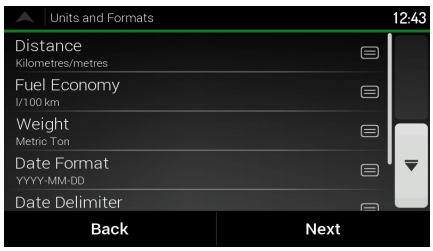
1. Select your preferred language, then tap Select to confirm your selection. Later you can change it in Regional settings (page 70).



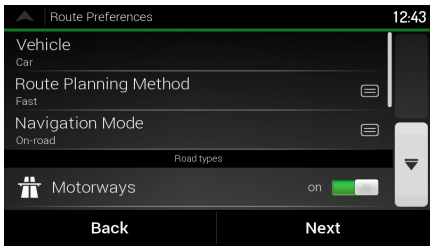
2. You are now asked whether you allow the software to collect usage information and GPS logs that may be used for improving the application and the quality of maps. Tap Yes to allow the anonymous statistics or disable this function. Later you can turn them on or off individually in Usage report settings (page 71).
3. The Configuration Wizard starts. Tap Next to continue.
4. Select the language and speaker used for voice guidance messages. Later you can change it in Regional settings (page 66). Tap Next to continue.



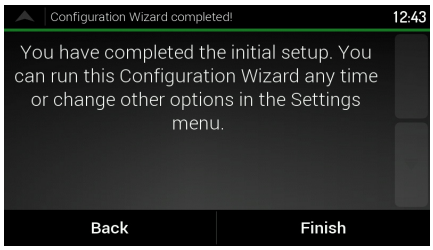
5. If needed, modify the time format and unit settings. Later you can change them in Regional settings (page 70). Tap Next to continue.



6. If needed, modify the default route planning options. Later you can change them in Route Preferences (page 64). Tap Next to continue.



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



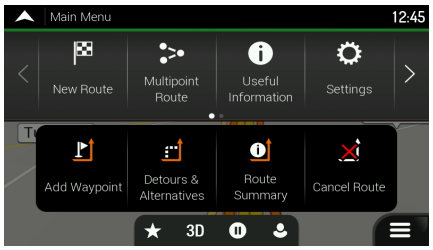
2.2 Screen controls

The following sections describe the functionality and use of buttons, sliders, and other screen controls in Clarion Navigation.

2.2.1 Using the buttons and other controls

To operate Clarion Navigation, tap the buttons on the touch screen.

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, Clarion Navigation saves your selections and applies the new settings without confirmation as soon as you use the controls.

2.2.2 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.

2.2.3 Using the keyboard

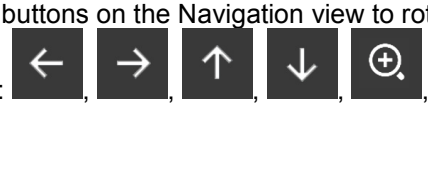
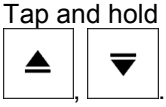
You can type with your fingertips on the screen keyboards and you can switch between various keyboard layouts, for example English, Greek or numerical. Only those keyboard buttons are active that can be used to type a name that is available on the map. The other keys are greyed out.

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	Tap to remove the unnecessary character(s). Tap and hold the button to delete several characters or the entire input string.

Entering a space, for example between a first name and a family name or in multi-word street names	Tap the Space button at the bottom centre of the screen.
Entering upper and lower case letters	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.
Entering numbers and symbols	Tap to switch to a keyboard offering numbers and symbols.
Finalising the keyboard entry	Tap .
Starting a search for a keyboard entry	Tap .
Hiding the keyboard	Tap .

2.2.4 Using touch gestures

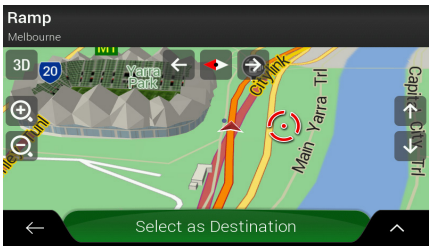
You usually need to tap the screen only once. However, some useful features can be accessed with other gestures. See the table below.

Action	Function
Tapping and holding the screen	Tap and keep pressing the following buttons to reach extra functions: • 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	Drag the screen in the following cases: • 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.

2.2.5 Manipulating the map

If you tap the map anywhere during navigation, the map stops following the current position (the red arrow 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:

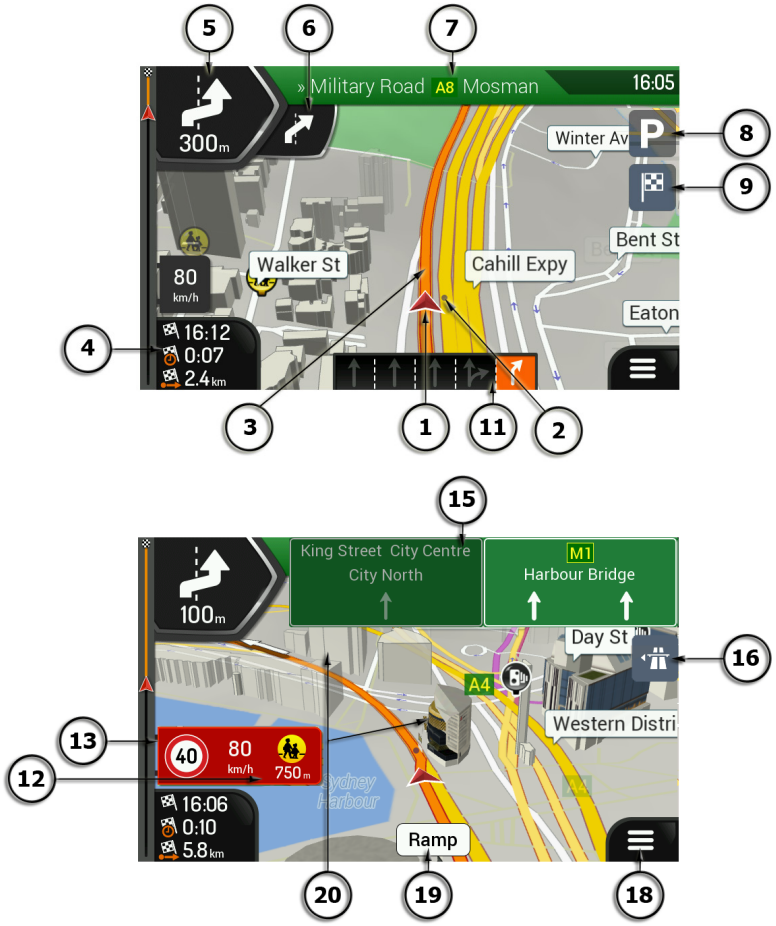
Action	Button(s)	Function
Checking location information	No buttons	The top section of the Navigation view shows information about the selected point (the cursor).
Moving the map by dragging	No buttons	Move the map in any direction: tap and hold the map and move your finger towards the direction you want to move the map.
Zooming in and out	,	Change how much of the map is displayed on the screen. Clarion Navigation 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. Map scaling has a limit in 3D map view mode. If you zoom out further, the map switches to 2D view mode. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.
Tilting up and down	,	Change the vertical view angle of the map in 3D mode. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.

Rotating left and right		Changes the horizontal view angle of the map. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.
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.
Returning to normal navigation		Move the map back to follow the current GPS position. Automatic map rotation is also re-enabled. The map manipulation buttons disappear and the navigation continues.
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.

2.3 Navigation view

The navigation view is the main screen of Clarion Navigation that shows the planned route on a map. Clarion Navigation 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 red arrow arrow by default. When there is no GPS position, the current position marker is transparent and it shows your last known position. See page 14.
2	**GPS position**	The dot near the arrow shows the GPS position as perceived by the GPS receiver. See page 14.
3	**Planned route**	The planned route is displayed as an orange line line.

4	**Data fields**	Three data fields show the following information: • The estimated time of the arrival at the destination • The remaining time of the trip • The remaining distance to the destination. By tapping it, you can access additional information about the current trip on a dashboard screen and in the Trip Summary. You can change the default values in Settings (page 68) or by tapping and holding the area where the data fields appear. If you have not selected a destination, you can see your heading instead of the three data fields.
5	**Next turn preview**	It shows the type of the next manoeuvre and its distance. See page 15.
6	**Second next turn preview**	It shows the type of the second next manoeuvre if it is near the first one. See page 15.
7	**Next street**	It displays the name of the next street. See page 15. If you have not selected a route destination, you can see nearby street numbers, if they are available.
8	**Parking around destination**	It appears near the destination. By tapping it, you can check the available parking facilities around your destination. See page 60.
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, or suspend the navigation.
12	**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 67.
13	**Speed limit warning**	It shows the current speed limit of the road. See page 67.
15	**Signpost**	It shows the available destinations and the road numbers. See page 16.
16	**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 17.
18	**Navigation menu**	By tapping it, you can open the Navigation menu, where you can reach other parts of Clarion Navigation.
19	**Street name**	It shows the current street name. By tapping it, you can open the Where Am I screen. See page 61.
20	**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 17.

2.3.1 Streets and roads

Clarion Navigation 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.

2.3.2 GPS position markers

When your GPS position is available, Clarion Navigation marks your current position. By default, this marker is a red arrow arrow. The dot near the arrow shows the GPS position as perceived by the GPS receiver.

When on-road navigation is selected, the current position marker may not show your exact GPS position and heading. If roads are near, it is aligned to the nearest road to eliminate GPS position errors, and the direction of the icon is aligned to the direction of the road.

If you select off-road navigation, the current position marker is at your exact GPS position. The direction of the icon shows your current heading.

2.3.3 The planned route

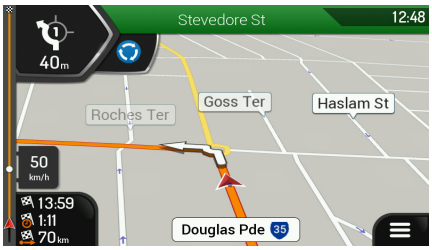
The planned route is the currently navigated route. Whenever the destination is set, the route is active until you delete it, reach your destination or suspend navigation. Clarion Navigation displays the route in the following ways:

Symbol	Name	Description
	Current GPS position and starting point	It is your current position displayed on the map. • 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. • The dot near the arrow shows the exact GPS position. Normally, if GPS position is available, the route starts from the current position. If there is no valid GPS position, Clarion Navigation 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 64). However, when Clarion Navigation cannot avoid such roads, the route includes them and shows them in a colour that is different from the route colour.

2.3.4 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.

2.3.5 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.

Icon	Function
	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.

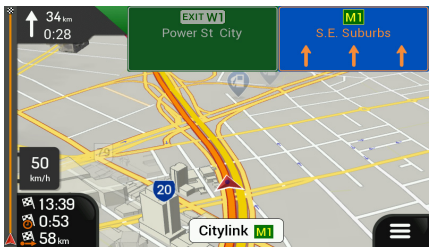
2.3.6 Lane information and signposts

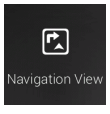
When navigating on multi-lane roads, it is important to take the appropriate lane in order to follow the planned route. If lane information is available in the map data, Clarion Navigation displays the lanes and their directions using small arrows at the bottom of the map. Highlighted arrows represent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

Where additional information is available, arrows are replaced by signposts. Signposts are displayed 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 

(page 68).

2.3.7 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.

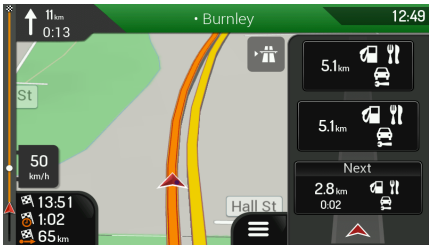
Where Provider Junction Views are not available but the necessary information exists, Generic Junction Views show a generic view of the junction, focusing on the number and layout of lanes only. The road signs are created from road shield, road number, and destination information received in the map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

Junction view can be turned off in

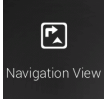
. See page 68.

2.3.8 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 68.

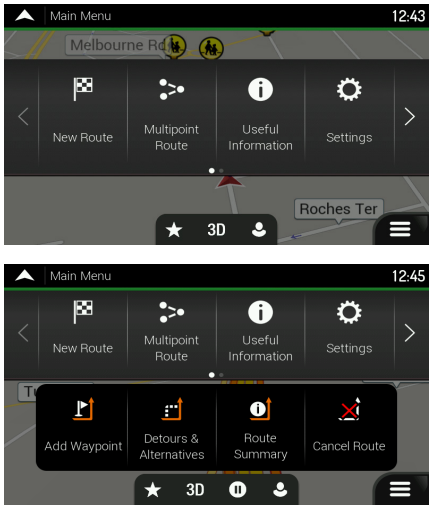
2.3.9 3D object types

Clarion Navigation supports the following 3D object types:

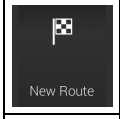
Type	Description
3D terrain	NX706AU displays 3D hills and mountains in the Navigation view, and illustrates them by colouring and shading on the 2D map.
Elevated roads	Elevated roads are complex intersections and vertically isolated roads (such as overpasses or bridges) displayed in 3D.
3D landmarks	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.

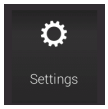
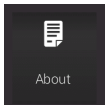
2.4 Navigation menu

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 coordinate, 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.
	See information about the navigation 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.

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.
	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.

The following options are also available on many of the menu screens:

Button	Function
	The Menu button appears when the Navigation view is displayed. Tap it to open the Navigation menu.
	The More button appears on the screen to display additional features. Tap it to open the list of additional features on certain screens.

	Tap it to return to the map from any menu screen.
	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.

3 Using the navigation

By default, Clarion Navigation 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 47.

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 44.

You can also use Clarion Navigation for off-road navigation. See page 56.

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 21
- Entering a full address or a part of an address, for example a street name without a street number, see page 24
- Selecting a Place as your destination, see page 32
- Selecting a previously saved location as your destination, see page 39
- Selecting a location from the History of previously used destinations, see page 40
- Selecting a previously saved route, see page 41
- Entering the coordinate of the destination, see page 42
- Selecting a location on the map, see page 43
- Planning a multipoint route, see page 44.

3.1.1 Using combined search

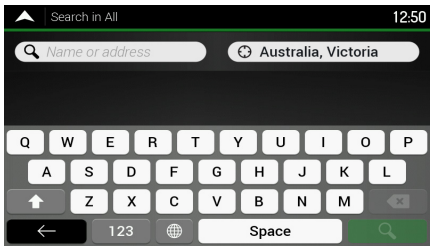
There are several ways to select your destination. You can initiate a separate search for addresses, Places, saved locations, or recent destinations, but the fastest way to search for any of these is to use combined search.

Perform the following steps to use combined search:

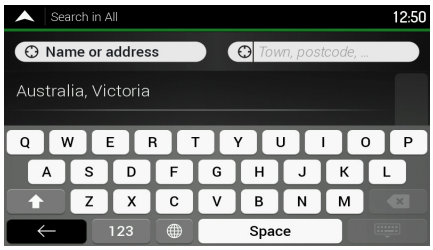
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

.

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.

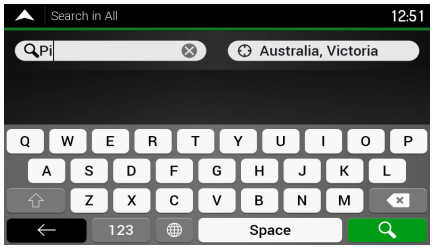


You only need to enter a few letters to get a result. The most likely result appears below the input field as you enter new letters.

   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 related 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

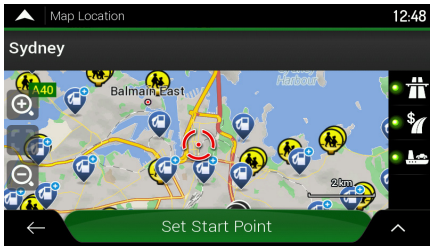
to see the list of matching Place category names. Scroll the list and select one of the categories. You get the list of Places in that category ordered by their distance from your current position.
   - Tap

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.

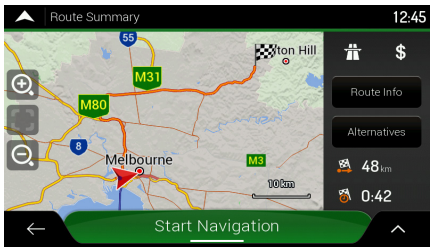


10. Tap

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 street number, see page 24
- The address starting with the street name, see page 27
- The centre of a town, see page 29
- The midpoint of a street, see page 30
- An intersection, see page 31
- Any of the above, starting the search with the postal code, see page 32.

3.1.2.1 Entering an address with states

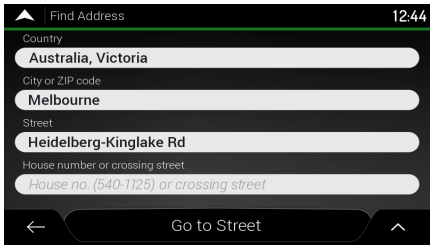
To enter an address as the destination, follow these steps:

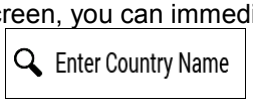
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and

.
3. By default, the Clarion Navigation 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 

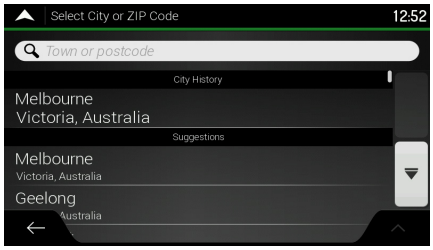
button and start entering the first few letters of the country on the keyboard. If you select a country without a state, you can search for a town in all its states.

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

4. If needed, select a new city.

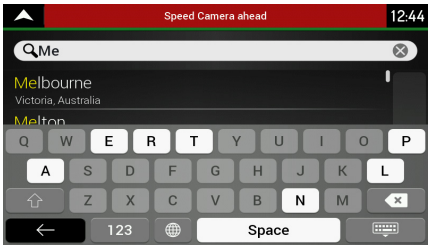
a. Tap the City or ZIP code field.

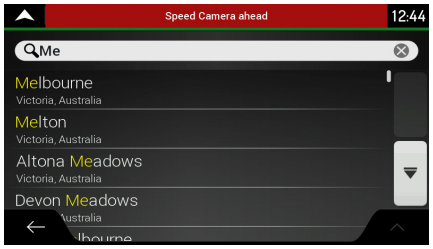
b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.



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.

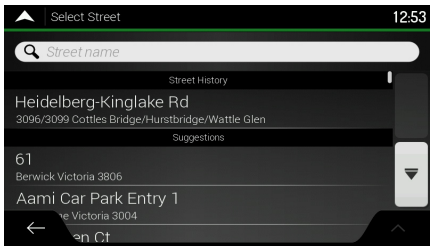




5. Enter the street name.

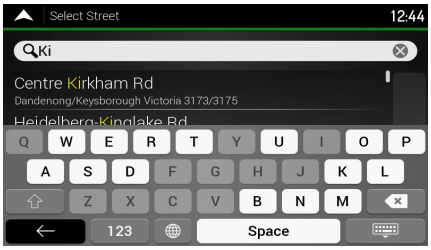
a. Tap the Street field.

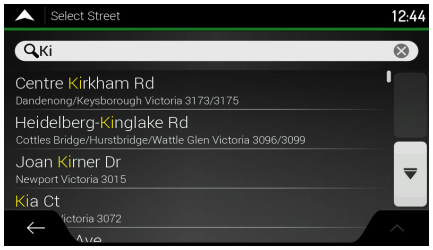
b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



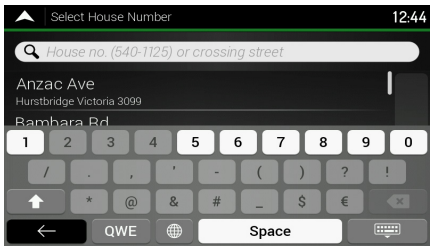
c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.

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

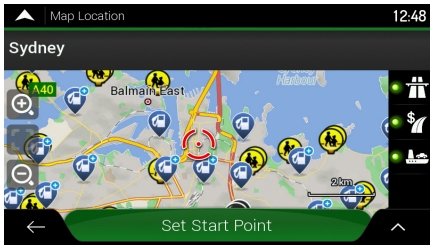




6. If available, enter the street number by performing the following steps:
   a. Tap the Street number or crossing street field.
   b. Enter the street number on the keyboard. (To enter letters, tap QWE.)
   c. Tap the selected address to finish the address search.



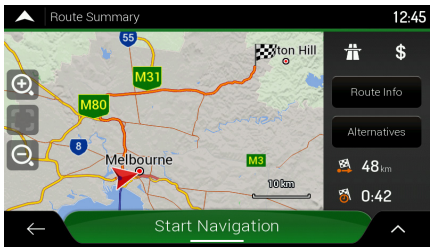
7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.
8. Check the settings for road types and change them if necessary.



9. Tap Select as Destination 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.



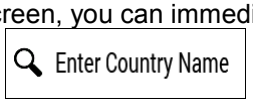
3.1.2.2 Entering an address starting with the street name

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.

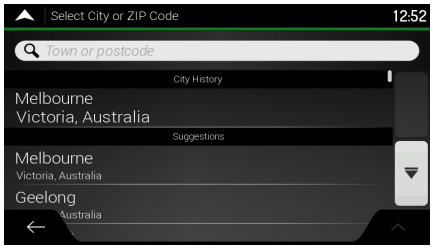
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

and

.
3. By default, Clarion Navigation proposes the country and state where you are. If needed, change the country. Tap

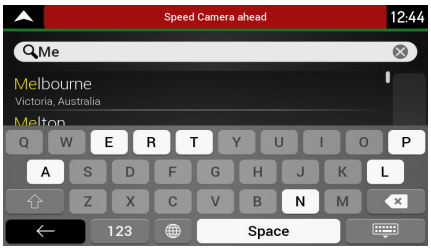
.
   a. In the Select Country screen, you can immediately select a country from the list below the input field or tap the 

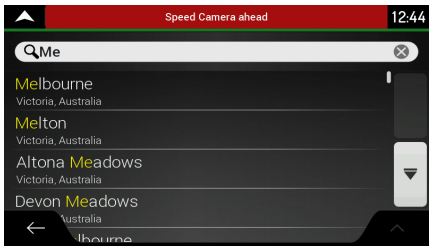
button and start entering the first few letters of the country on the keyboard.
   b. Tap to open the list of results and select one country from the list.
4. If needed, select a new city.
   a. Tap the City or ZIP code field.
   b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.



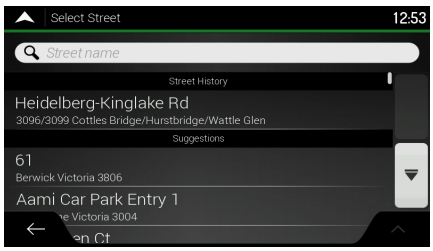
   c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.

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

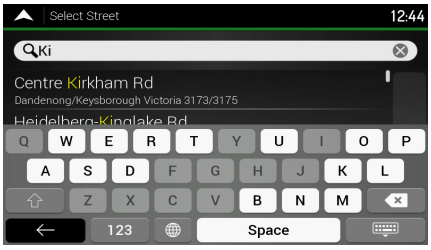


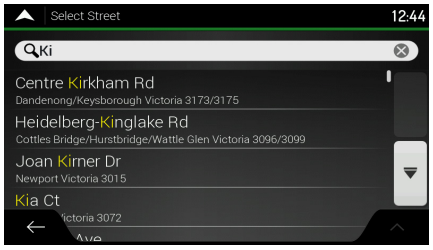


5. Enter the street name.
   a. Tap the Street field.
   b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.

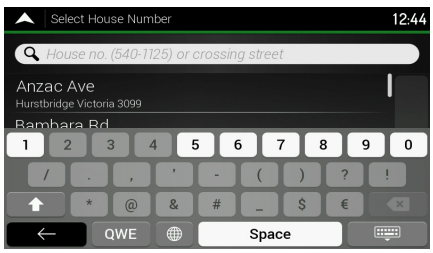


   c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.
   d. Tap to open the list of results. Select the street from the list.

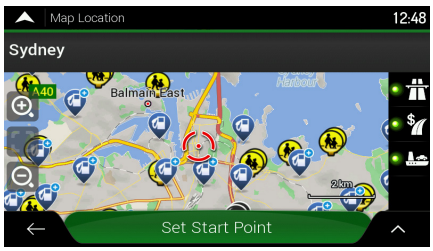




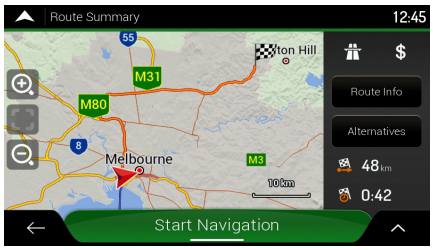
6. If available, enter the street number by performing the following steps:
   a. Tap the Street number or crossing street field.
   b. Enter the street number on the keyboard. (To enter letters, tap .)
   c. Tap the selected address to finish the address search.



7. 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.
8. Check the settings for road types and change them if necessary.



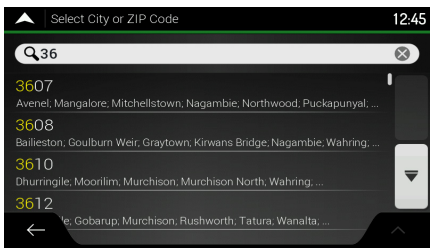
9. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap ← to select a different destination.
10. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap ^ to modify the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



3.1.2.3 Selecting a town centre

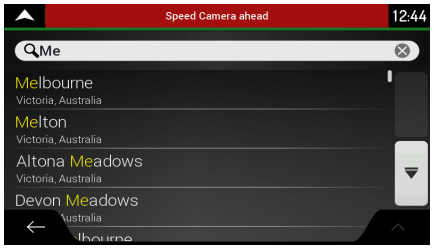
The town centre is not the geometric centre of the town but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection and in larger towns, it is one of the important intersections.

1. Go to New Route , Address , and modify the country and state as described earlier (page 24), 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 of 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.

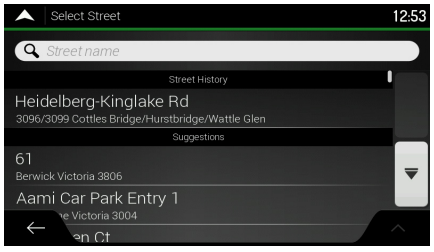
3.1.2.4 Selecting the midpoint of a street

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

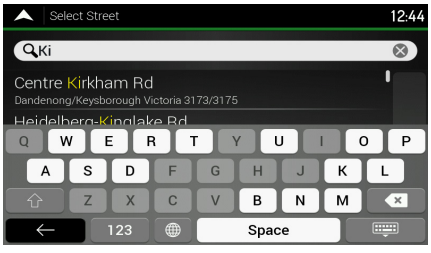
1. Go to

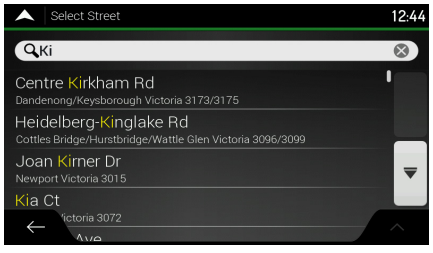
,

, 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.



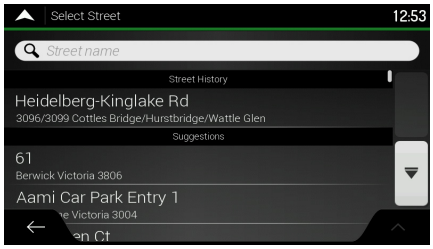


3. Instead of entering the street number, tap Go to Street. The midpoint of the street is selected as the destination.

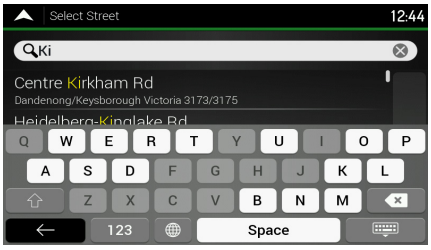
3.1.2.5 Selecting an intersection in a town

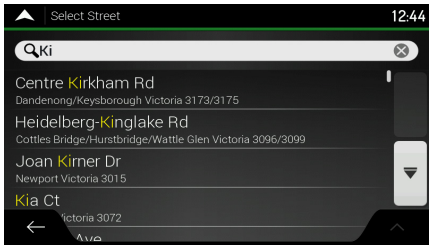
To navigate to an intersection, perform the following steps:

1. Go to New Route, Address, 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 Street 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

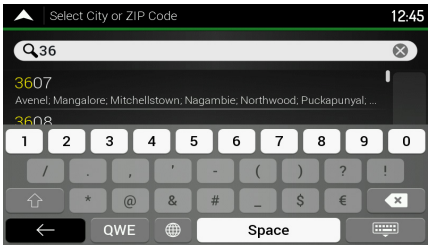
You can also select any kind of destination by entering the postal code instead of the city name. To select the postal code, perform the following steps:

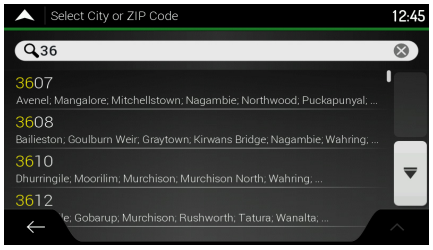
1. Go to

,

, and modify the country and state as described earlier (page 24), if necessary.
2. Tap the Town or Postcode field.
3. Enter the postcode by performing the following steps:
   a. Tap

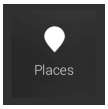
to open the numeric keypad.
   b. Start entering the postal code.
   c. Tap to open the list of results.
   d. Find the place you need.





4. Continue the search as described previously (page 24).

3.1.3 Selecting a Place of Interest

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

menu.

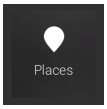
Using the same screen, you can find a Place by selecting one of the following options:

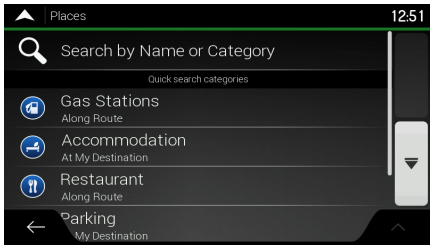
- Finding frequently searched types of Places with the Quick search categories, see page 33
- Searching for a Place by its name, see page 36
- Searching for a Place by its category, see page 34

In case of emergency, you can also find help nearby, see page 38

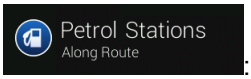
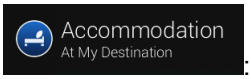
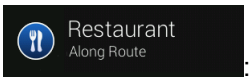
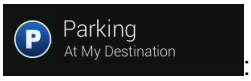
3.1.3.1 Using Quick search categories

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  .

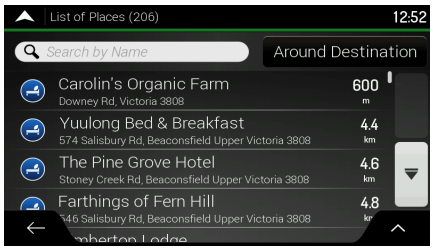


The following Quick search categories appear:

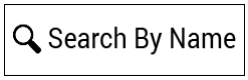
-  : If a planned route exists, petrol stations are searched along the route.
-  : If a planned route exists, accommodation is searched around the destination.
-  : If a planned route exists, restaurants are searched along the route.
-  : If a planned route exists, parking lots are searched around the 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.

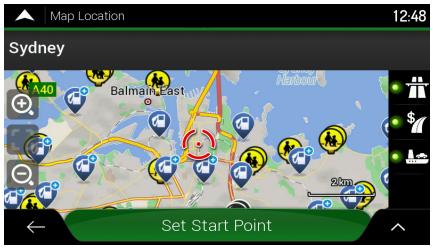


4. The Places in the list can be ordered by their distance from the current or last known position, from the destination, or by the length of the necessary detour. If you need to reorder the list, tap . To filter the list of results by providers, tap

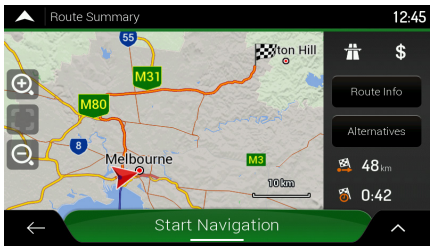
and then the provider logo on the right side of the screen.
5. (optional) If needed, tap 

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.
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.

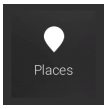
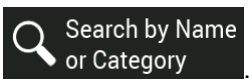


10. Tap to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.
11. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap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

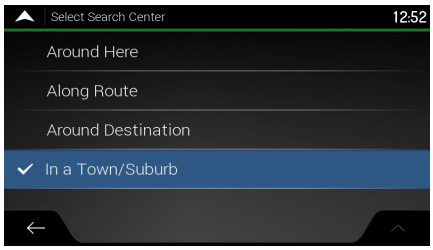


3.1.3.2 Searching by category

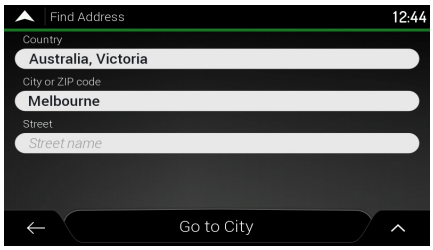
To search for Places by their categories and subcategories, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. Tap and  .
3. Tap  .
4. 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.

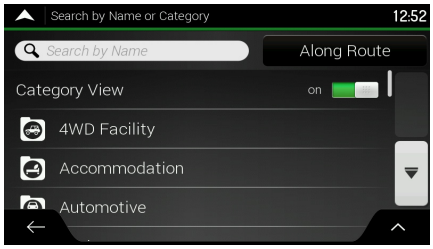
- Tap Along Route to search along the planned route, and not around a given point. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming petrol stations or restaurants. (The result list is ordered by the length of the necessary detour.)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



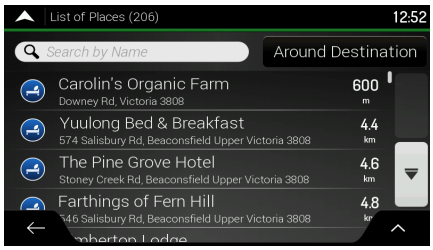
5. (optional) If you have selected Town/Suburb, select the town to search in.



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

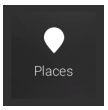
and then the provider logo on the right side of the screen.

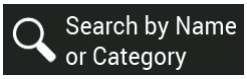
9. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle.
10. The process continues the same way as in case of any other search for Places. See page 33.

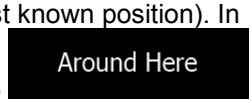
3.1.3.3 Searching by name

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 

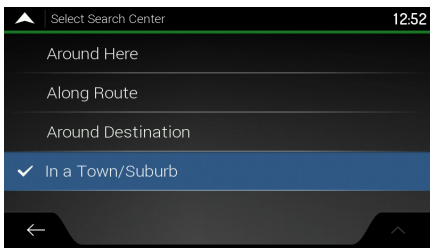
to select one of the following search areas:

   - Tap

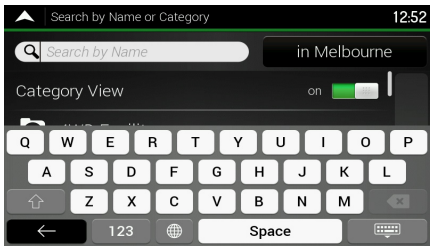
to search for a place within a selected town. (The result list is ordered by the distance from the centre of the selected town.)
   - Tap

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.)

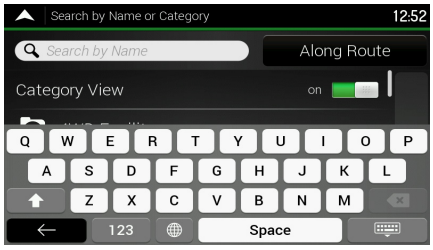


5. (optional) If you have selected Town/Suburb, select the town to search in.

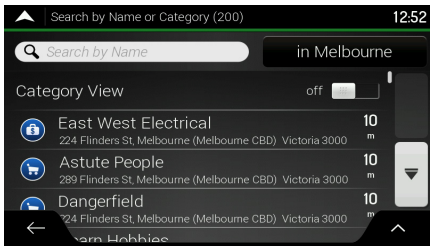


You can search for the name of a Place in all categories by performing the following steps:

1. Tap Search By Name. 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.

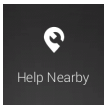


3. Browse the list, if necessary, and tap the desired list item. A full screen map appears with the selected point in the middle. The process continues the same way as in case of any other Places search. See page 33.

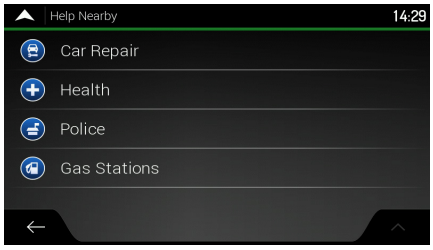
3.1.3.4 Finding help nearby

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

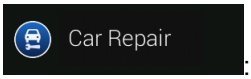
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

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):

- 

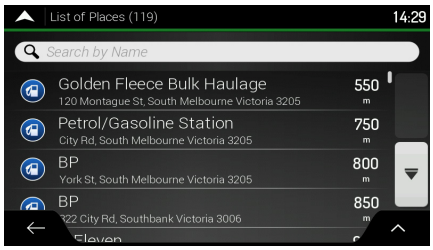
: Car repair and roadside assistance services
-

: Medical and emergency services
-

: Police stations
-

: Petrol stations

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



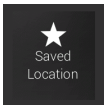
4. (optional) The Places in the list can be ordered by the following criteria:
   - By their distance from the current or last known position
   - By name.

   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.
6. The process continues the same way as in case of any other Places search. See page 33.

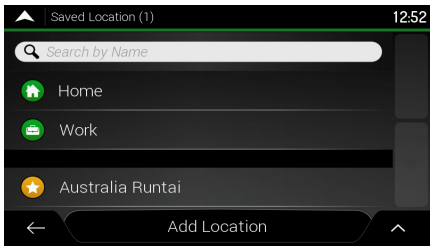
3.1.4 Selecting a Saved Location

To select a location that you have already saved (page 52), perform the following steps:

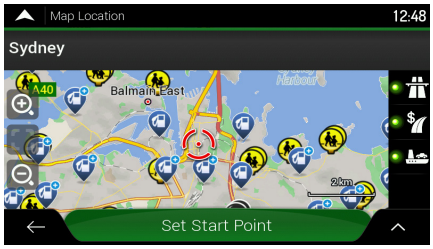
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

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.

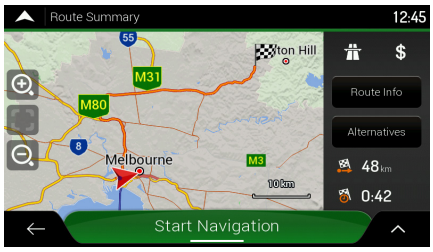


9. Tap

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.

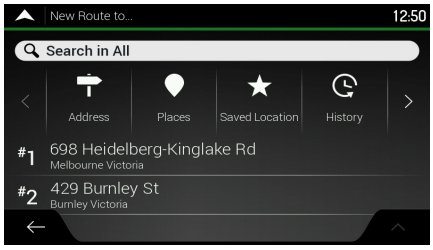


3.1.5 Selecting a History item

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

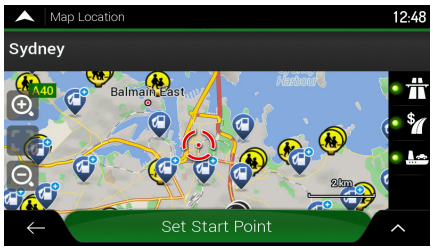
. Two of the Smart History Items are displayed in the New Route to... screen for easy access. You can select one of them as your destination.



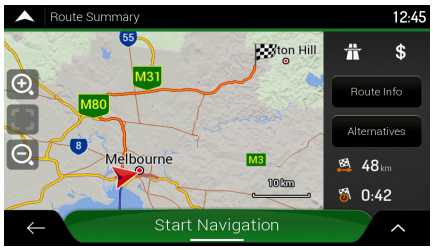
3. To open all the history items, tap

. 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.



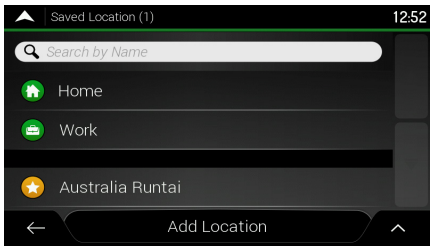
7. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap ← to select a different destination.
8. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap ^ to modify the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



3.1.6 Selecting a saved route

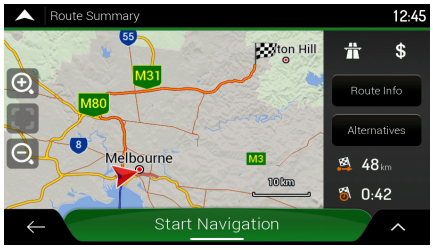
The routes that you have saved earlier appear in a list. To select a previous route, perform the following steps:

1. Tap ☰ on the Navigation view to access the Navigation menu.
2. Tap New Route and Saved Routes.



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 Calculate Route.

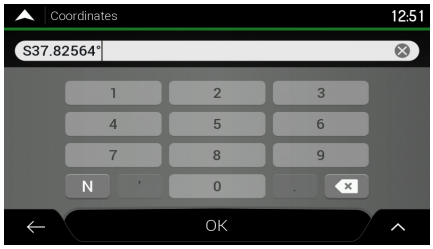
5. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap to modify the route parameters, or tap Start Navigation to start your journey.



3.1.7 Entering coordinates

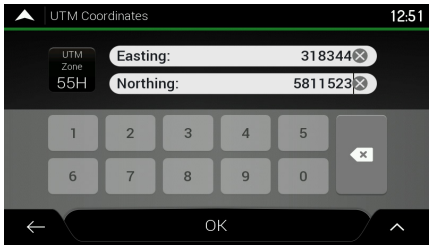
To select a destination by entering its coordinates, perform the following steps:

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



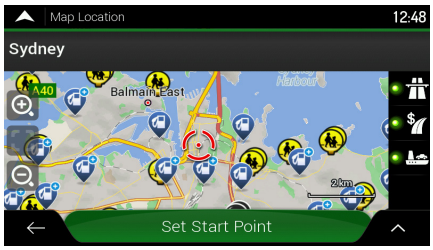
Tip!

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

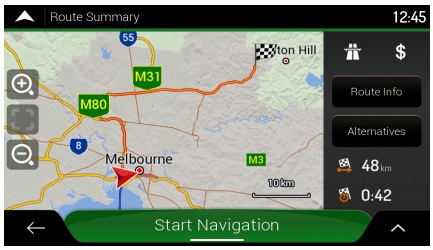


4. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor ( ) appears at the new location.

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



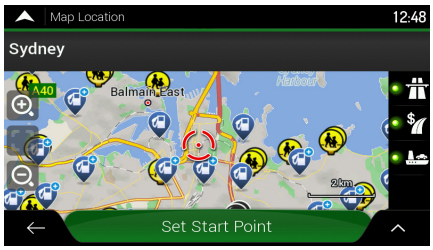
6. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map or tap ← to select a different destination.
7. The route is calculated and the map appears showing the entire route, where you can check route information and route alternatives. Tap ^ to modify the 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:

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

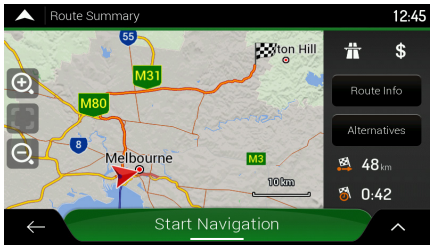


2. Tap the location that you want to select as your destination. The cursor ( ) appears there.
3. (optional) If needed, tap ^ to list the Places near the selected point or to save this location.

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

4. Tap Select as Destination to select the cursor as the destination.

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.

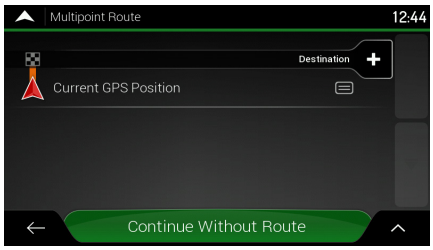


3.1.9 Planning a Multipoint Route

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

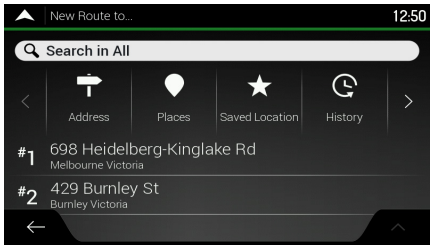
1. Tap on the Navigation view to access the Navigation menu.
2. Tap

.

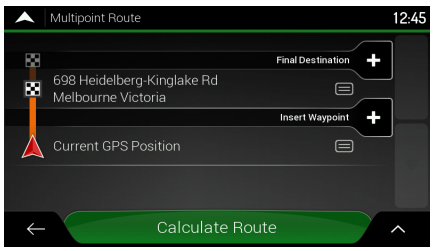


3. There is only one line in the list of route points, the starting point of the route, which is normally the current GPS position.
4. Tap

to select the destination.
5. The New Route to... screen appears, where you can select the destination of the route the same way as described in the previous sections.



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



7. 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.

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

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

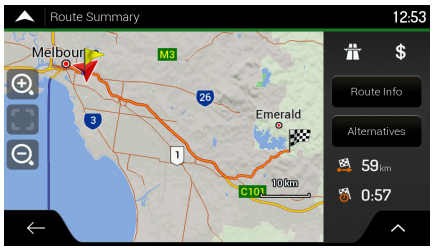
3.2 Checking Route Information and Alternatives

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

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

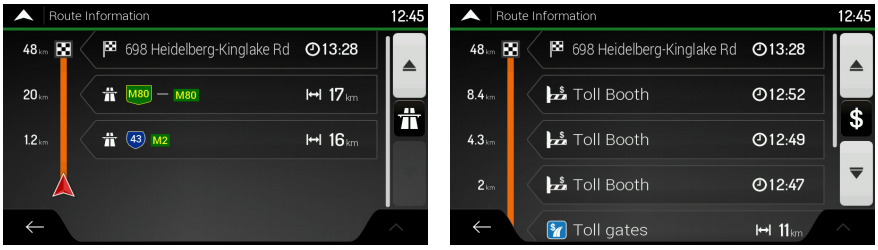
2. In the Navigation menu, tap Route Summary.

3. 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.



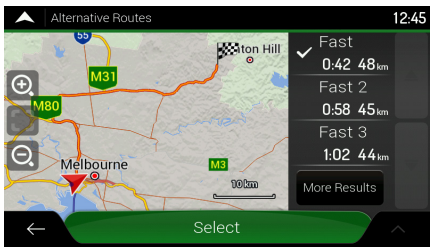
4. You have the following options on this screen:

- Tap Route Info to receive detailed information about the route.



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

- Tap Alternatives to list route alternatives and select the most suitable route for you.



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:

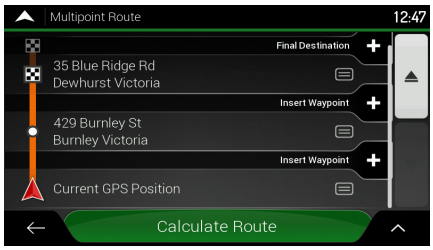
- Setting a new starting point, see page 47
- Adding an additional destination, see page 48
- Modifying the list of destinations, see page 48
- Saving the planned route, see page 49
- Deleting the planned route, see page 50
- Selecting a route alternative when planning the route, see page 50
- Selecting a route alternative for an existing route, see page 51
- Pausing guidance, see page 52.

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

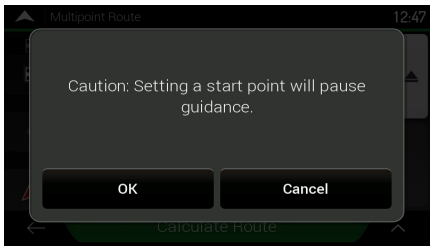
.



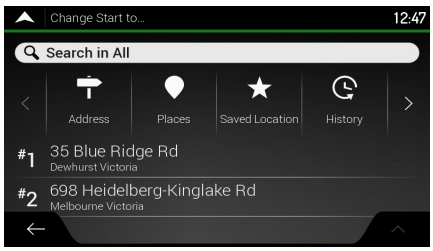
3. The first line from the bottom is the start of the route, normally the current GPS position. Tap

, select

, and confirm your action at the warning message.



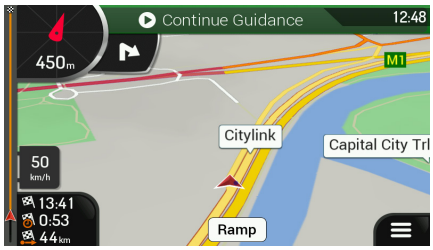
4. The Change Start to... screen appears. Select the starting point of the route the same way you select a destination.



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 Calculate Route 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 Continue Guidance.

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.

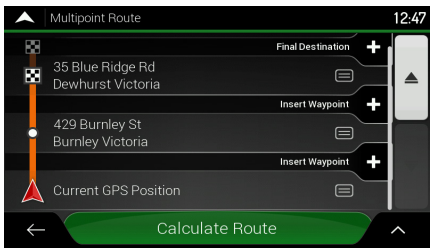
To add a new intermediate destination to the planned route, perform one of the following actions:

- Tap the map anywhere to browse it. After selecting the location on the map, tap and Select as Waypoint 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 Multipoint Route. Add a destination to your route as described on page 44.

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.
2. In the Navigation menu, tap Multipoint Route.



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

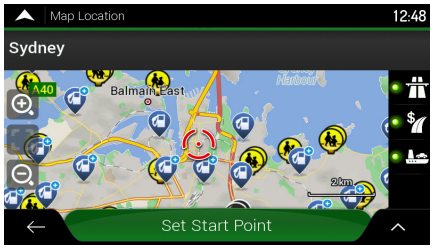
, then confirm the deletion.

3.3.4 Saving the planned route

To save the planned route, perform the following steps:

1. Select a destination as described earlier and tap

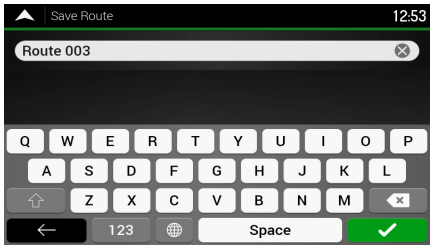
.



2. Tap and

.

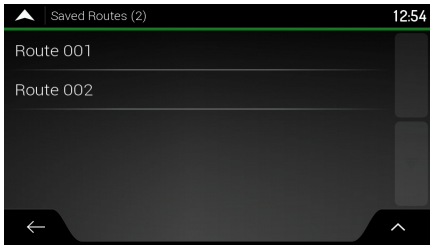
3. Type in a name and tap
.



4. The route is saved and it is available in

,

.



By selecting a previously saved route, Clarion Navigation 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

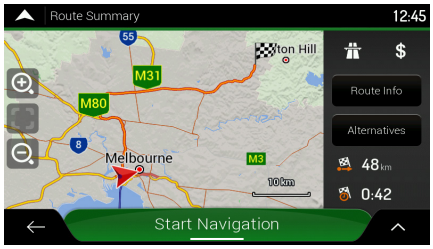
or

. 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

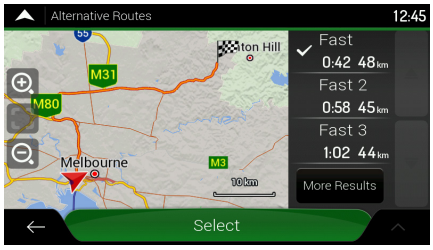
To select from different route alternatives or change the route planning method after you have selected a new destination, perform the following steps:

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



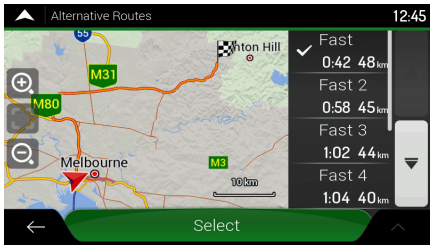
2. Tap

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



4. To view more suggestions, tap

and scroll down for other alternative routes with different route planning methods.

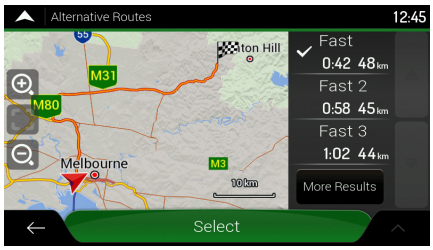


5. Select one of the route alternatives and tap Select to return to the previous screen. Clarion Navigation recalculates the route. Tap Start Navigation to start your journey. The orange line line now shows the new planned route.

3.3.7 Selecting a route alternative for an existing route

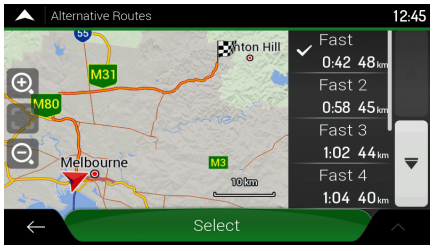
To recalculate the planned route with a different route planning method and to compare different route alternatives, perform the following steps:

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 Alternatives.
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 64), 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 More Results and scroll down for routes.

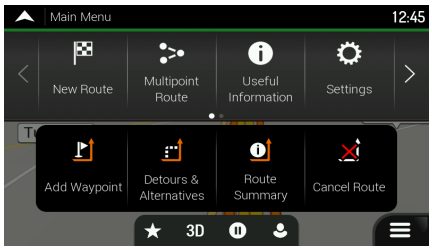


5. Select one of the route alternatives and tap Select to return to the previous screen. Clarion Navigation replaces the original route. Tap Start Navigation to start your journey. The orange line line now shows the new planned route.

3.3.8 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 to suspend guidance.

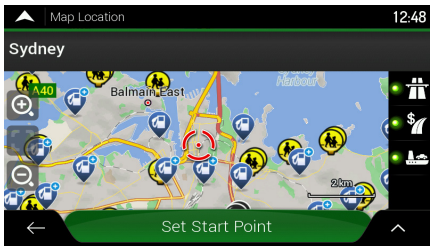


Tap to resume guidance.

3.4 Saving a location

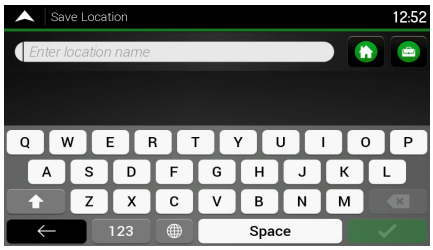
To add any location to the saved locations (the list of frequently used destinations), perform the following steps:

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 .



3. Tap Save Location.

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

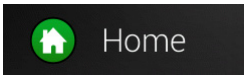


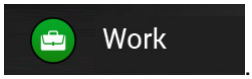
5. Tap to save the location.

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

1. On the Navigation view, tap ,

, and

.
2. Tap 

or 

. Tap

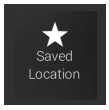
to confirm your selection.
3. You can search for the address as described on page 21.

Planning a route to one of the saved locations is described on page 39.

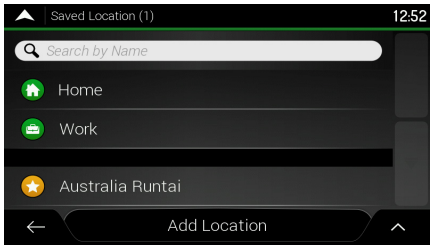
3.4.1 Editing a saved location

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

1. On the Navigation view, tap ,

, and 

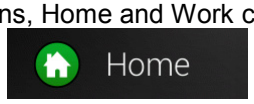
.
2. The list of Saved locations is displayed.

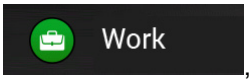


3. Tap and

.
4. Tap the location you want to edit, tap

and enter the name of the location on the keyboard, then tap .

Note! In Saved Locations, Home and Work cannot be renamed. To change your home or work location, tap 

or 

, and confirm the address change.

5. Tap Done.

Adding a location to the list of saved locations is described on page 52.

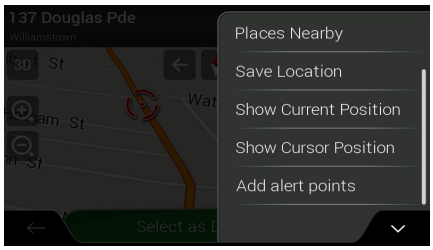
3.5 Adding an Alert Point

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

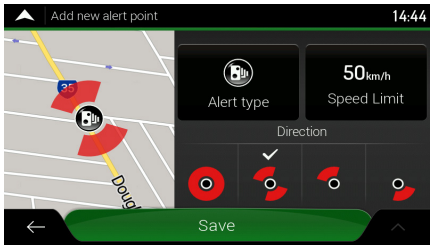
1. If you would like to save an Alert Point for the first time, switch on the Alert Point Warnings. In the Navigation menu, tap Settings, Warnings, then Alert Points. Switch on Alert Point Warnings and confirm your selection.

> 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 Add alert points.
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.



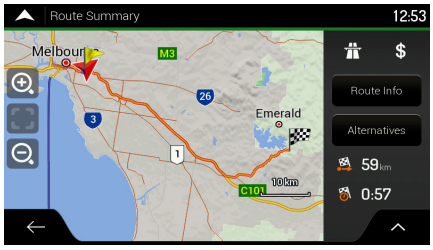
5. Tap Save to save the location as a new Alert Point.

3.6 Running a Simulation

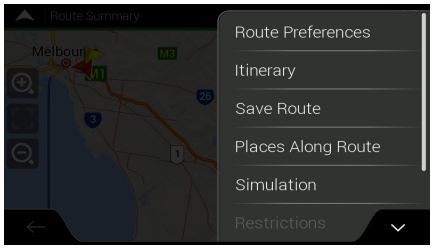
To run a simulated navigation that demonstrates the planned route, perform the following steps:

1. Tap on the Navigation view to access the Navigation menu.
2. In the Navigation menu, tap

.

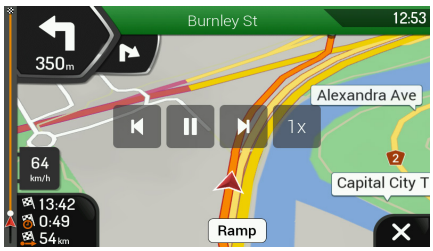


3. Tap .



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.

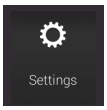
5. Tap to stop the simulation.

3.7 Off-road navigation

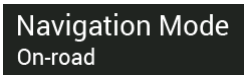
When first started, Clarion Navigation calculates routes using the road network of the maps provided with the product. If you want to disregard roads during navigation, you can switch to off-road mode, for example when driving in a desert.

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

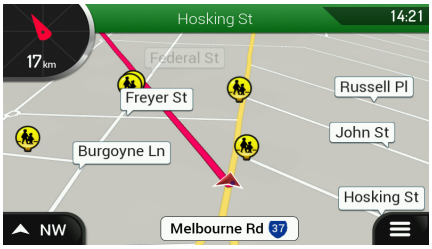
Selecting a destination (waypoint or final destination) is the same as described in the previous sections. The only difference is that route points are linked to form a route with straight lines regardless of the road network and traffic regulations.

3.7.3 Navigating in off-road mode

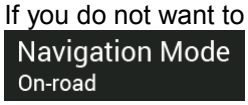
The real difference between on-road and off-road modes is the navigation itself. When you are on the Navigation view with an off-road route:

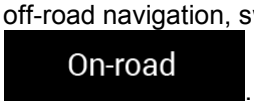
- Your position and heading is not aligned to the nearest road.
- There is no turn-by-turn navigation, just a recommended direction.

You can see an orange line 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 

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4 Reference guide

The following sections describe the different concepts and menu screens of Clarion Navigation.

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 Clarion Navigation.

You can add your own Alert Points. See page 54.

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 67.

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 47.

Once the destination has been selected, Clarion Navigation calculates the route based on your preferences. These preferences are the route planning method and the road types used or avoided when calculating the route. For detailed information on all the preferences, see Route preferences settings. See page 64.

Clarion Navigation 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. Clarion Navigation 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.

Speed warning can be fine-tuned in Warnings. See page 67.

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

).

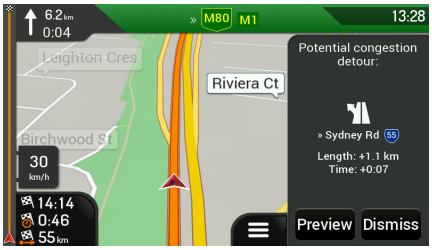
You can also choose to see the speed limit sign on the map all the time.

4.1.7 Intelligent navigation

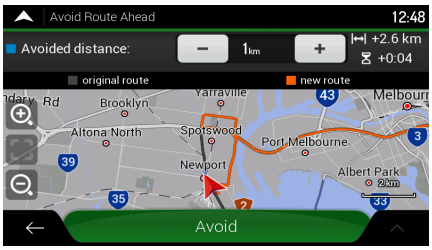
With the help of intelligent navigation, the planned route can adapt to traffic and other changes during navigation. The following sections describe these features.

4.1.7.1 Congestion detour on highways

Clarion Navigation 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**.

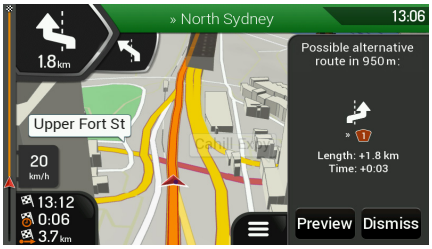


By tapping the plus/minus signs, you can increase or decrease the distance to avoid on the highway.

You can accept the recommended detour by tapping **Avoid**.

4.1.7.2 Real-time alternative routes

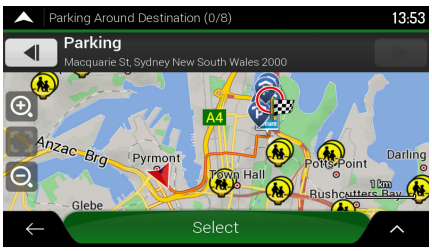
Clarion Navigation may offer an alternative route on normal roads in case of a traffic jam. The possible alternative route window appears and shows the length and duration of the detour.



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

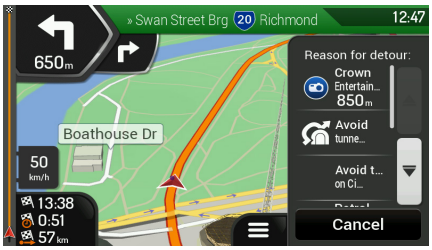
If you leave the planned route by exiting a motorway, Clarion Navigation tries to guess the reason for making a detour. By tapping P, you can open a top-down map with the recommended parking Places around the destination. By tapping the arrows on the sides, you can switch between the recommended parking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



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

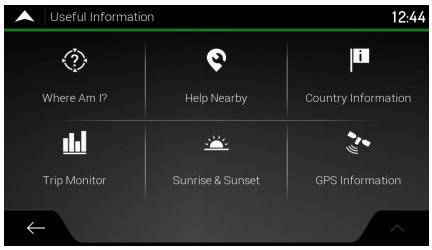
4.1.7.4 Hints upon detour

If you leave the planned route by exiting a motorway, Clarion Navigation 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, Clarion Navigation 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. You need an Internet connection via your mobile phone to access online services, like parking and weather information.

Button	Description
Where Am I?	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 61.
Help Nearby	Offers assistance near your current position. See page 38.
Country Information	Offers a list of countries with useful driving information about the selected country (for example speed limits, maximum blood alcohol level).
Trip Monitor	Shows statistical data of your trips, like the start time, end time and average speed, see page 62. 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.
Sunrise & Sunset	Shows a world map with the sunlit and dark areas of the world. Tap to check the exact sunrise and sunset times for all your route points.
GPS Information	Shows the GPS Information screen with satellite position and signal strength information.

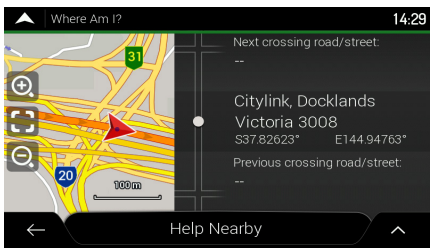
4.2.1 Where Am I

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:

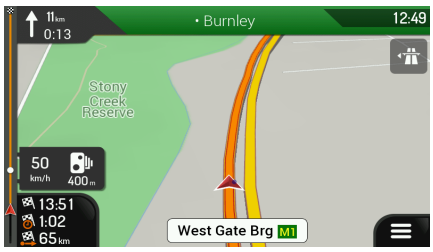
- By going to the Navigation menu and tapping

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 Save Location 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 Help Nearby to open a new screen for quick search and select a category. For detailed information, see page 38.

4.2.2 Trip Monitor

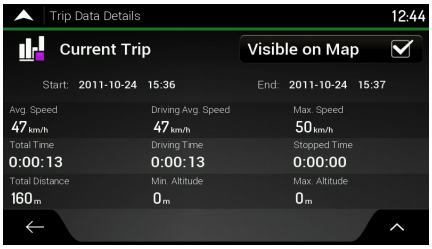
Trip Monitor logs information about your route.

You can record a new trip by tapping Start New Recording and stop it by tapping Stop Recording .

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

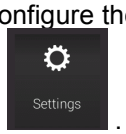
Button	Function
Edit	By selecting a recorded trip, you can delete, rename, or change the colour of the recorded route.
Export All	You can export all logs into the **sdmmc** folder.
Trip Monitor	You can access the Trip Monitor Settings, where you can enable saving the trip logs automatically or you can save the trip logs manually. See page 71.

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 Clarion Navigation, by tapping and 

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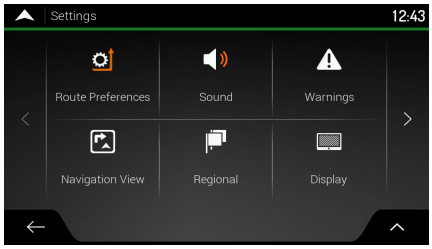
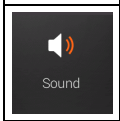
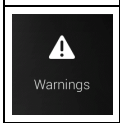
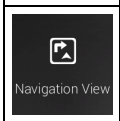
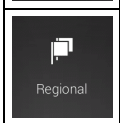
Tap the arrows to view the content of other pages.



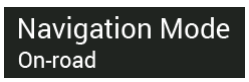
The Settings menu provides the following options:

Button	Function
	Select 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, and 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 6.
	These settings determine how user data is managed. There are three options: • Backup User Data: All user data and the current settings are saved on the inserted microSD card, and each backup is stored in a new file. • Restore User Data: All user data and the settings are overwritten with the information stored in the latest backup file. • Delete User Data: All the user backup files are deleted.

4.3.1 Route preferences settings

The following settings determine how routes are calculated:

Button	Function
	Optimise the route calculation for different situations and vehicle types by changing the planning method. See page 64.
	Select on-road or off-road navigation. See page 56.
	Select your preferred road types for the route. See page 65.

4.3.1.1 Route Planning Method types

You can select from the following route planning method types:

Button	Description
	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.
	Results in a route with fewer turns and no difficult manoeuvres. With this option, you can make Clarion Navigation take, for example, the motorway instead of a series of smaller roads or streets.

Short	Gives a short route to minimise the travel distance. It can be optimal for slow vehicles. Searching for a short route regardless of the speed, this route type is rarely optimal for normal vehicles.
Green	Gives a quick but fuel-efficient route based on the fuel consumption data. Travel cost and CO_2 emission calculations are estimations only. They cannot take elevations, curves and traffic conditions into consideration.

4.3.1.2 Navigation Mode

You can switch between on-road and off-road navigation by tapping Navigation Mode On-road and selecting On-road or Off-road (page 56).

4.3.1.3 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.
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.
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, Clarion Navigation plans the best toll-free route.
Ferries	Clarion Navigation 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	Clarion Navigation excludes unsealed roads by default. Unsealed 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. Clarion Navigation excludes 4WD tracks by default.

4.3.2 Sound settings

You can modify the following settings:

Button	Function
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.
Say Road Names in Native Language Area	Choose from the following options: • Announce the street names in the native language area of the selected voice guidance language. • Announce the road numbers only. • Announce the manoeuvres only.
Say Road Names in Foreign Language Area	Street names sound correct only if you use a native voice profile for the country. Choose from the following options: • Try to read the street names in a foreign country. • Announce the road numbers only. • Announce the manoeuvre only.
Early Indication of Manouevres	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.

Verbosity Level	Set the verbosity of the voice instructions, that is how much they tell and how often they speak. • 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	Allow reading out a quick summary of the route whenever a route is calculated.
Announce Country Info	Allow reading out information about the country you have entered, when you cross country borders.
Announce Traffic Info	Allow reading out real-time traffic messages.
Announce System Messages	Allow announcing system messages.

4.3.3 Warnings settings

You can enable and modify the following settings:

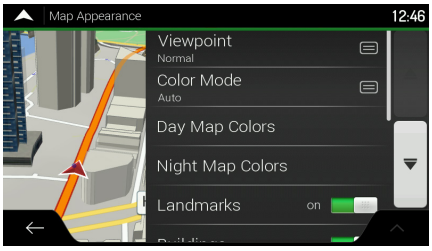
Button	Description
Speed Limit	Clarion Navigation is able to warn you if you exceed the current speed limit. This information may not be available in your region, or may not be fully correct for all roads on the map. This setting lets you decide whether you wish to receive visible and/or audible warnings. The following warning types are available: • 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. 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. 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.

Alert Points	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. You can set the warning type for the different Alert Point categories (alert types) individually. The following warning types are available: • 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. 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. • 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 line is displayed on the side of the screen, and a red arrow 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.
Offer Congestion Detour on Highways	In certain situations, Clarion Navigation offers a detour when there is a traffic jam on a highway. See page 59.
Offer Real Time Alternative Routes	In certain situations, Clarion Navigation offers an alternative route when there is a traffic jam on the road. See page 59.
Offer Parking Around Destination	In certain situations, Clarion Navigation offers parking Places when you approach your destination. See page 60.
Offer Hints Upon Detour	In certain situations, Clarion Navigation offers different route alternatives when you leave the planned route and suddenly exit the motorway. See page 60.

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	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. Different voice profiles are capable of different levels of service: • 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. Clarion Navigation 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.
GPS Tracks	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.

5 Troubleshooting

This section offers possible solutions to issues that may occur during the operation of Clarion Navigation.

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 Clarion Navigation, 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: Clarion Navigation cannot find the address you entered.

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

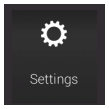
Solution 1: If the street number is not known or Clarion Navigation cannot find it, select only the street name. This way, Clarion Navigation will navigate you to the midpoint of the street, where you can find the exact address more easily.

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 

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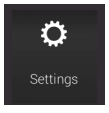
the route planning method is not set to the optimal parameter.

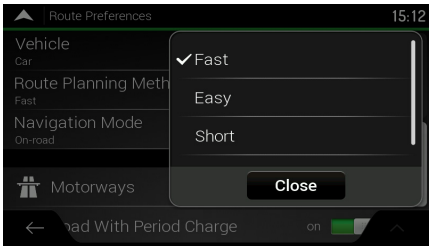
Solution: Select your preferred route planning method by performing the following steps:

1. Tap , 

, and

.

2. Tap Route Planning Method and select your preferred route, for example Fast or Easy. See Page 64.



5.4 Disabling the speed limit warning

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

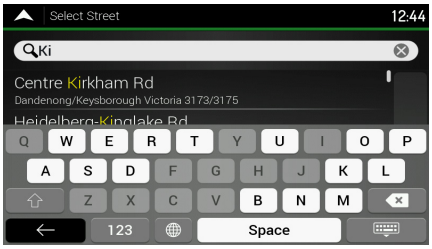
Cause: The speed limit in the digital map data might differ from the actual speed limit of your current location.

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

1. Tap , Settings, and . Warnings .
2. Tap Speed Limit, Warn When Speeding Audio and Visual and Disabled.

5.5 Keyboard buttons are greyed out

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



Cause: Clarion Navigation 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.

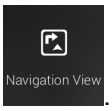
5.6 The map is hidden behind an image of a junction

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:

- Tap ,

, and 

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6 Index

2

2D/3D map views, 19

3

3D objects, 18

A

About, 19
Adding a Waypoint, 19, 48
Address Search, 24, 72
Alert Point, 54, 68, 73
Alternative routes, 45, 50, 51

C

Changing the route, 46
Combined search, 21
Coordinates, 42
Country Information, 61
Cursor, 8

D

Delete Route, 19
Delete Waypoint, 19
Detours and Alternatives, 19
Display settings, 71

E

Easy route, 64
Editing the route, 46

F

Fast route, 64
Favourites (Saved Locations), 39, 52, 53

G

GPS Information, 61
Green route, 65

H

Help Nearby, 38
History, 40
Home address, 39, 52

I

Intelligent navigation, 59
Intersection, 31

J

Junction view, 14, 17

K

Keyboard, 8

L

Language settings, 66, 70

M

Map colours, 69
Map location, 43
Multipoint Route, 18, 44

N

Natural voice, 57
Navigation mode, 56, 64, 65
Navigation view, 12
Navigation view settings, 68
New Route, 18, 21

O

Off-road navigation, 56, 65

P

Parking, 60
Places of Interest, 32
POI (Places), 32
Possible alternative route, 59

Postcode, 32
Potential congestion detour, 59

R

Reason for detour, 60
Regional settings, 70
Road signs, 68
Road types, 64
Route alternative, 46, 50, 51
Route Information and Alternatives, 45
Route Planning Method, 64
Route Preferences, 64
Route Summary, 19

S

Safety camera, 57, 68
Saved Locations, 39, 52, 53
Saved routes, 41, 49
Search in All, 21
Settings, 19, 63
  Display settings, 71
  Navigation View settings, 68
  Regional settings, 70
  Route Preferences settings, 64
  Sound settings, 66
  Trip Monitor settings, 71
  Usage Reports settings, 71
  Warning settings, 67
Short route, 65
Simulation, 55
Smart zoom, 58
Sound settings, 66
Speed camera, 57, 68, 73
Speed limit, 67, 73
Speed limit warning, 58, 73
Starting point, 47
Street midpoint, 30
Sunrise and Sunset, 61

T

Touch gestures, 9
Town centre, 29
Traffic
  Historical traffic, 57
Trip Monitor, 62
Trip Monitor settings, 71
TTS voice, 57

U

Usage Reports, 71
Useful Information, 18, 61
User profiles, 19

V

Voice
  Natural voice, 57
  TTS voice, 57
Voice Guidance, 66

W

Warning settings, 67
Waypoint, 19, 48
Where Am I, 61
Work address, 39, 52

Z

Zooming, 10, 58

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