User Manual

Xite Navigation and

Xite LV (Large Vehicle) Navigation

Navigation Software for the XSG2NA Infotainment System

US English

This manual contains detailed instruction on the operation of the new Xite Navigation and Xite LV (Large Vehicle) Navigation packages. To identify your package you can easily check the loading screen of the navigation during vehicle start up. The package name will be listed at the top of the display.

Both packages provide a comprehensive and powerful navigation solution that is simple and intuitive to operate while presented with best in class enhanced graphics. These integrated OEM navigation solutions are an industry first, offering you the ability to select an RV as a vehicle type with special considerations given to the vehicle.

The optional Xite LV Navigation also includes the ability for you to enter in your specific RV dimensions when you choose RV as your vehicle. In addition to the standard map data, this package contains comprehensive road hazard and restriction data normally reserved for the commercial industry. We have taking this information and tailored it to meet the needs of today's RV community.

Please take time to learn your user manual prior to driving to ensure you maximize your driving experience. If you are using the Xite LV Navigation please set your vehicle attributes prior to first use.

Drive safe and remember to obey all laws, road signs and warnings ahead of the navigation system.

For Support:

Map updates please visit www.naviextras.com.

To report map errors or change requests visit http://mapinsight.teleatlas.com/mapfeedback/index.php

If you have questions or require assistance please contact River Park Inc. at navi@riverparkinc.com.

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1 Warnings and Safety Information

Your optional navigation feature is intended to assist you with guidance to your destination. The navigation is NOT intended to replace, supersede or take precedence over any traffic signs, street signs, hazard signs, etc.

IT IS YOUR RESPONSIBILITY TO ENSURE THE ROADS YOU ARE TRAVELLING ARE APPROPRIATE FOR THE VEHICLE YOU ARE DRIVING. You MUST ensure that you obey all laws, traffic signs and road geometry.

Do not enter destinations, change settings or access any functions requiring prolonged use of the controls of the unit while operating your motor vehicle. Plan your route prior to your departure and for your safety, pull off the road and stop before making any adjustments to the system or resolving any navigation discrepancies or questions.

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

When you first start your Xite Navigation you will be prompted to allow the software to collect usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. The data is processed anonymously; no one will be able to track any personal information. If you change your mind later, you can enable or disable the log collection in Settings (page 53).

2 Getting Started

Xite Navigation is optimized for in-vehicle use. You can use it easily by tapping the screen buttons and the map with your fingertips.

When using the navigation software for the first time, an initial setup process starts automatically. Complete the following steps as prompted:

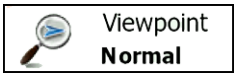
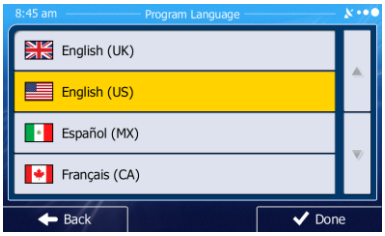
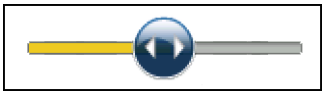
1. Select the user language. Options are English, Spanish and French. Tap Done.
2. Read the End User License Agreement. If you agree to the terms tap Accept to continue.
3. The Configuration Wizard starts. Tap Next to continue.
4. Select the language and spoken voice used for voice guidance messages. See Sound and Warnings settings (page 46).
5. If needed, modify the time format and unit settings. See Regional settings (page 45).
6. If needed, modify the default route planning options. See Route settings (page 48).
7. Adjust the vehicle profile parameters to match your vehicle. Later you can change them in Route Settings (page 48).
8. The initial setup is now complete. The Configuration Wizard can be restarted later from the Settings menu (page 45).
9. 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 and coverage of maps. Tap Yes to allow the anonymous statistics or disable this function. Later you can turn them on or off individually in Log Collection settings (page 53).

After the initial setup, the Main screen appears and you can start using Xite Navigation.

2.1 Buttons and other controls on the screen

When you are using Xite Navigation, you tap buttons on the touch screen.

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

Type	Example	Description	How to use it
Button		Tap it to initiate a function, to open a new screen, or to set a parameter.	Tap it once.
Button with value		Some buttons display the current value of a field or setting. Tap the button to change the value. After the change, the new value is shown on the button.	Tap it once.
Icon		Shows status information.	Some icons also function as a button. Tap them once.
List		When you need to select from several options, they appear in a list.	Grab the list anywhere and slide your finger up or down. Depending on the speed of the sliding, the list will scroll fast or slow, only a bit or till the end. Alternatively, move between pages with the and buttons and tap the value that you want.
Radio button		When there are only a few choices, radio buttons may be used instead of lists. Only one value can be selected.	Tap one of the buttons to select a new value.
Switch		When there are only two choices, a checkmark shows whether the feature is enabled.	Tap it to turn the switch on or off.
Slider		When a feature can be set to different values in a range, Xite Navigation shows an indicator on a gauge that displays and sets the value.	• Drag the handle to move the slider to its new position. • Tap the slider where you want the handle to appear; the thumb jumps there.
Virtual keyboard		Alphabetic and alphanumeric keyboards to enter text and numbers.	Each key is a touch screen button.

2.1.1 Using keyboards

You only need to enter letters or numbers when you cannot avoid it. You can type with your fingertips on the full-screen keyboards and you can switch between various keyboard layouts, for example English, Greek or numerical.

Task	Instruction
Switching to another keyboard layout, for example from an English keyboard to a Greek keyboard	Tap the More button and select the new keyboard layout from the list.
Deleting keyboard entry	Tap (or hold) to delete character(s).
Entering a space, for example between a first name and a family name or in multi-word street names	Tap the button at the bottom center of the keyboard.
Entering upper and lower case letters	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 twice to turn on Caps Lock. Tap again and lower case letters return.
Entering numbers and symbols	Tap 123 to switch to a keyboard offering numeric and symbol characters.
Finalizing the keyboard entry (or accepting the suggested search result)	Tap
Finalizing the keyboard entry (opening the list of search results)	Tap Results.
Finalizing the keyboard entry (saving your input)	Tap Done.
Canceling the keyboard entry (returning to the previous screen)	Tap Back.

2.1.2 Beyond single screen tap

You usually need to tap the screen only once. However, some useful features can be accessed with combined touch screen tapping. Those are the following:

Action	Details
Tapping and holding the screen	Tap and keep pressing the following buttons to reach extra functions: • Tap and hold Back on list and menu screens: the Map screen appears. • Tap and hold any of the, , , , , and buttons on the Map screen: you can rotate, tilt or scale the map continuously. • Tap and hold on keyboard screens: you can delete several characters quickly. • Tap and hold or in long lists: you can scroll pages continuously.
Gestures (drag & drop)	You need to drag and drop the screen only in cases like: • Moving the handle on a slider. • Scrolling the list: grab the list anywhere and slide your finger up or down. Depending on the speed of the sliding, the list will scroll fast or slow, only a bit or till the end. • Moving the map in map browsing mode: grab the map, and move it in the desired direction.

2.2 Map screen

2.2.1 Navigating on the map

The Map screen is the most frequently used screen of Xite Navigation.

A small live map is displayed on the Navigation menu, as a part of the Show Map button.

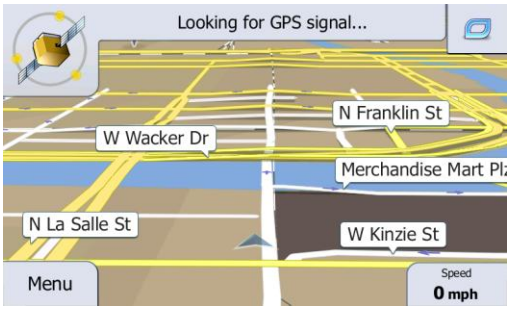
To enlarge this small map and open the Map screen, tap Show Map.

This map shows the current position (the Vehimarker, a blue arrow), the recommended route (an orange line), and the surrounding map area.

When GPS position is available, the Vehimarker is displayed in full color, now showing your current position.

When there is no GPS position, the Vehimarker is transparent. It shows your last known position.

You see colored dots circling around a satellite symbol in the top left corner. The more green dots you see, the closer you are to getting the valid GPS position.

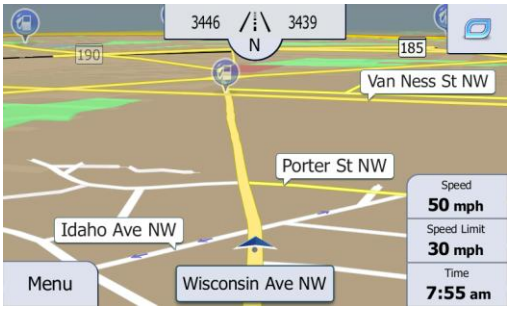


There are icon buttons and data fields on screen to help you navigate. During navigation, the screen shows required route information.

Data fields (3) can be shown in the bottom right hand corner of the map screen. By default, only one data field is displayed. Tap this field to see all (3) selected data fields. Tap any of the data fields to suppress others and display only the selected one.

Tap and hold any of the fields to change that specific field shown.

The data fields are different when you are navigating an active route and when you have no specified destination. You can customize which (3) fields to display in either mode.



2.2.2 Position markers

2.2.2.1 Vehimarker and Lock-on-Road

When your GPS position is available, Xite Navigation marks your current position with the Vehimarker.

When on-road navigation is selected, the Vehimarker may not show your exact GPS position and heading if your vehicle is not on a road (parking lot, campground etc). If roads are near, it is aligned to the nearest road to suppress GPS position errors, and the direction of the icon is aligned to the direction of the road.

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

2.2.2.2 Selected map location (Cursor) and selected map object

You can mark a map location in the following ways:

- Tap the map when navigating,
- Tap the map when you are asked to confirm the destination at the end of a search, or
- Tap the map in Find on Map (page 28)

When a map location is selected, the Cursor appears at the selected point on the map. The Cursor is displayed with a radiating red dot to make it visible at all zoom levels.

The location of the Cursor can be used as the destination of the route, a new Alert Point, you can search for Places around it, or you can save this location as one of your Favorite destinations.

You can also select some of the objects on the map. If you tap the map at the icon of a Place of Interest or an Alert Point, the object will be selected (you see a red circling border around the object), and you can get information about this object or use it as a route point.

2.2.3 Objects on the map

2.2.3.1 Streets and roads

Xite Navigation shows the streets in a way that is similar to how the paper road maps show them. Their width and colors correspond to their importance: you can easily tell a freeway from a small street.

2.2.3.2 Turn preview and next street

When navigating a route, the top section of the Map screen shows information about the next route event (maneuver) and the next street or the next city/town.

There is an icon in the top left corner that displays the next maneuver. Both the type of the event (turn, traffic circle, exiting freeway, etc.) and its distance from the current position are displayed.

A smaller icon shows the type of the second next maneuver if it is near the first one. Otherwise, only the next maneuver is displayed.

Most of these icons are very intuitive. The following table lists some of the frequently shown route events. The same symbols are used in both fields.

Icon	Description	Icon	Description
	Turn left.		Enter traffic circle (second next maneuver).
	Turn right.		Enter freeway.
	Turn back.		Exit freeway.
	Bear right.		Board ferry.
	Turn sharp left.		Leave ferry.
	Keep left.		Approaching a waypoint.
	Continue straight in the intersection.		Approaching the destination.
	Go left on the traffic circle, 3rd exit (next maneuver).		

2.2.3.3 Lane information and signposts

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

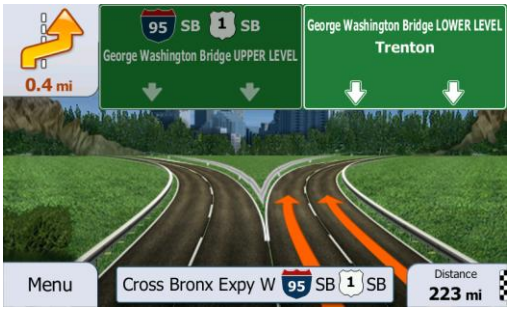
Where additional information is available, signposts substitute arrows. Signposts are displayed at the top of the map. The color and style of the signposts are similar to the real ones you can see above road or by the roadside. They show the available destinations and the number of the road the lane leads to.

All signposts look similar when cruising (when there is no recommended route). When navigating a route, only the signpost that points to the lane(s) to be taken is displayed in vivid colors; all others are darker.

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

2.2.3.4 Junction view

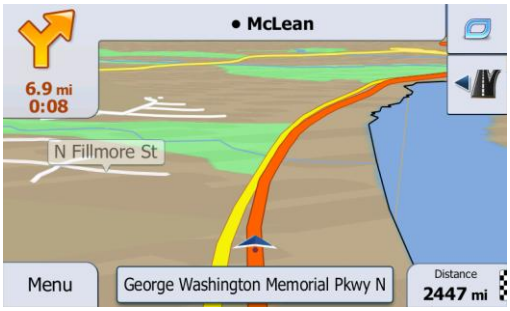
If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows. Signposts can also be present if information is available.



If you want to hide the currently displayed junction, tap the picture and the Map screen returns.

2.2.3.5 Freeway exit services

You may need a gas station or a restaurant during your journey. This feature displays a new button on the map when you are driving on freeways.



Tap to open a panel with the details of the next few exits or service stations.

Tap any of them to display it on the map and add it as a waypoint to your route if needed.

If you want to display other types of POIs for the exits, you can change the icons in Visual Guidance settings (page 51).

2.2.3.6 3D object types

Xite Navigation supports the following 3D object types:

Type	Description
3D terrain (Optional)	3D terrain map data shows changes in terrain, elevations or depressions in the land when you view the map in 2D, and use it to plot the route map in 3D when you navigate. Hills and mountains are shown in the background of the 3D map, and illustrated by color and shading on the 2D map.
Elevated roads (Optional)	Complex intersections and vertically isolated roads (such as overpasses or bridges) are displayed in 3D.
3D landmarks (Optional)	Landmarks are 3D artistic or block representations of prominent or well-known objects.
3D buildings (Optional)	3D block representation of full city building data containing actual building size and position on the map.

2.2.3.7 Elements of the active route

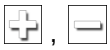
Xite Navigation shows the route in the following way:

Symbol	Name	Description
	Current GPS position and start point	Your current position displayed on the map. If roads are near, it is aligned to the nearest road. Normally if GPS position is available, the route starts from the current position. If there is no valid GPS position, Xite Navigation uses the last known position as the start point.
	Waypoint (intermediate destination)	An intermediate destination of the route before reaching the final destination.
	Destination (end point)	The final destination of the route.
	Route color	The route always stands out with its color on the map, both in daytime and in night color mode.
	Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types (page 48). However, when Xite Navigation cannot avoid such roads, the route will include them and it will show them in a color that is different from the route color.

2.2.3 Manipulating the map

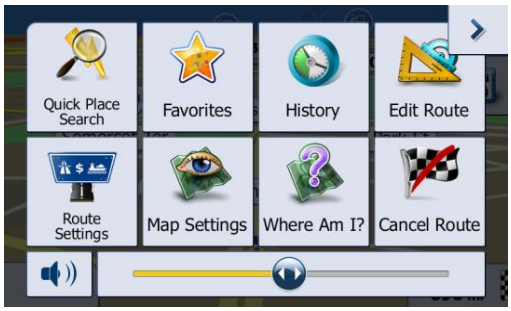
Tap the map anywhere to browse it during navigation. The map stops following the current position (the Vehimarker, a blue arrow by default, is not locked in a fix position on the screen any more) and control buttons appear to help you modify the map view.

Action	Button(s)	Description
Moving the map with drag & drop	No buttons	You can 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		Changes how much of the map is displayed on the screen. Xite Navigation uses high quality vector maps that let you examine the map at various zoom levels, always with optimized 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 the button once to modify the view in large steps, or tap and hold the button to modify it continuously and smoothly.
Tilting up and down		Changes the vertical view angle of the map in 3D mode. Tap the button once to modify the view in large steps, 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 the button once to modify the view in large steps, or tap and hold the button to modify it continuously and smoothly.
2D or 3D view		Tap this button to switch between the 3D perspective and 2D top-down map view modes.
Compass in 2D map view mode		The direction of the compass shows North. Tap the button to switch to North-up view, and then tap again to rotate the map in the previous direction.
Compass in 3D map view mode		The direction of the compass shows North. Tap the button to switch to North-up view, and then tap again to rotate the map in the previous direction.
Location information		Tap this button to open a new screen with information about the selected map point, the Cursor.
Return to normal navigation		Tap this button to move the map back to follow the current GPS position. Automatic map rotation is also re-enabled. The map manipulation buttons disappear and navigation continues.
Additional options		Tap this button to open a list of additional features like saving the Cursor as a Favorite destination, or searching for Places around the Cursor.
Select destination		Tap this button to select the Cursor as a new destination. The route is automatically calculated.

2.2.4 Quick Menu

The Quick Menu is a selection of controls and functions that are frequently needed during navigation. It can be opened directly from the Map screen by tapping .



The menu will close after a few seconds of inactivity or if you tap .
The menu will also close if you initiate simple controls like muting the device. In other cases tapping a button will open a new screen with options.
Most of these functions are shortcuts. They are accessible from the menu system.

There are more functions available than the number of buttons in the menu. In Settings, you can choose the function of each Icon (page 45). The following options are available:

Icon	Description	Shortcut for
Master Volume slider	This slider adjusts the sound volume of the device. All sounds of the application are affected.	More / Settings / Sound and Warnings / Volume / Master slider
,	This switch mutes all sounds of the device. Tap again to re-enable sounds.	More / Settings / Sound and Warnings / Volume / Master switch
Quick Place Search	This function lets you search for a Place along your route or around your current location if there is no route calculated.	Find / Find Places / Quick Search (page 25)
Favorites	This button opens the list of your Favorite destinations.	Find / Favorite (page 28)
History	This button opens the History list. You can select one of your previous destinations.	Find / History (page 29)
Edit Route	This button opens the route editing function.	My Route / Edit Route
Route Settings	This button opens the route related settings.	More / Settings / Route Settings (page 48)
Map Settings	This button opens the map related settings.	More / Settings / Map Settings (page 50)
Where Am I?	This button opens a special screen with information about the current position and a button to search for nearby emergency or roadside assistance. For details, see the next chapter.	Tap the Current Street field on the Map screen
Cancel Route	This button cancels the route and stops navigation. The button is replaced with the next one if waypoints are given.	My Route / Cancel Route (page 34)
Remove Next Waypoint	This button skips the next waypoint from the route.	n/a
Overview	This button opens a 2D map scaled and positioned to show the entire route.	My Route / Overview (page 30)

Icon	Description	Shortcut for
	This button opens the Visual Guidance settings screen.	More / Settings / Visual Guidance (page 51)
	This button lets you bypass parts of the recommended route.	My Route / Avoidances
	This button opens the Trip Monitor screen where you can manage your previously saved trip logs and track logs.	More / Trip Monitor
	This button opens the list of maneuvers (the Itinerary).	Tap the top of the Map screen during navigation.
	With this function you can save the active route for later use.	My Route / More / Save Route
	With this function you can replace the active route with a previously saved route.	My Route / More / Load Route
	With this function you can search for POIs in various different ways.	Find / Find Places (page 24)
	This button opens the Map screen and starts simulating the active route.	My Route / More / Simulate Navigation (page 38)
	This button opens the GPS Information screen with satellite position and signal strength information.	Tap the top of the Map screen when there is no GPS reception
	This button opens the parameters of the selected Vehicle profile.	More / Settings / Route (page 48)

2.2.5 Checking the details of the current position (Where Am I?)

This screen contains information about the current position (or about the last known position if GPS reception is not available) and a button to search for useful Places nearby.

You can access this screen from the map in one of the following ways:

- If the current street is displayed below the Vehimarker (the current position on the map), tap it to open the Where Am I? screen.
- Open the Quick menu and tap the button.

Information on this screen:

- : Latitude and Longitude (coordinate of the current position in WGS84 format).
- : Altitude (elevation information coming from the GPS receiver - often inaccurate).
- : House number on the left.
- : House number on the right.
- In the middle of the screen you can see whether the position is current, or the time left since it was last updated.

- Address details (when available) of the current position are also displayed at the bottom.

You can also perform some actions on this screen:

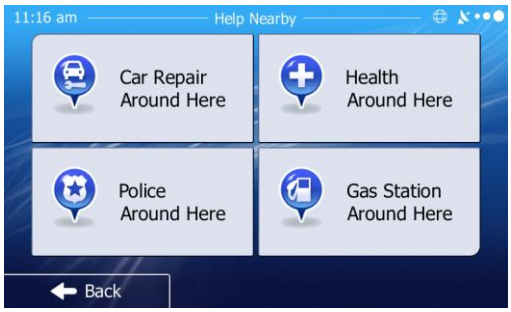
Tap

to save the current position as a Favorite destination.

You can also search for assistance near your current position.

Tap

to open a new screen for the Quick search: These services can be searched around the current position or the last known position:



-

: Car repair and roadside assistance services
-

: Police stations
-

: Medical and emergency services
-

: Gas stations

Tap any of the buttons, select a Place from the list, and navigate to it.

2.3 Navigation menu

You can reach all parts of Xite Navigation from the Navigation menu.

You have the following options:

- Tap

to select your destination by entering an address or selecting a place of interest, a location on the map or one of your Favorite destinations. You can also look up your recent destinations from the Smart History or enter a coordinate.
- Tap

to display the route parameters and the route in its full length on the map. You can also perform route-related actions such as editing or canceling your route, setting a start point for the route, picking route alternatives, avoiding parts of the route, simulating navigation or adding the destination to your Favorites.
- Tap

to customize the way the navigation software works.
- Tap

to start navigating on the map. The button itself is a miniature live map that shows your current position, the recommended route and the surrounding map area. Tap the button to enlarge the map to the full screen.

3 On-Road Navigation

When first started, Xite Navigation calculates routes using the road network of the high quality vector maps provided with the product.
You can set up your route in different ways:

- If you need a route for immediate navigation, you can select the destination and start navigating to it right away (normal navigation).
- You can also plan a route independently of your current GPS position or even without GPS reception (to achieve this, you need to turn off the GPS receiver and set a new starting point in My Route / Edit Route by tapping the flag icon at the current position).

You can plan routes with multiple destinations. Select the first destination. Then select a second destination and add it to your route to create a multi-point route. You can add as many destinations to your route as you like.
You can also use Xite Navigation for off-road navigation. For details, see page 39.

3.1 Selecting the destination of a route

Xite Navigation offers you several ways of choosing your destination:

- Enter a full address or a part of an address, for example a street name without a house number or the names of two intersecting streets (page 20).
- Enter an address with ZIP code (page 24). This way you do not need to select the name of the city/town and the search for street names might be faster as well.
- Use a built-in Place of Interest as your destination (page 24).
- Select a location on the map with the Find on Map feature (page 28).
- Use a previously saved Favorite destination (page 28).
- Select a location from the History of previously used destinations (page 29).
- Enter the coordinate of the destination (page 29).

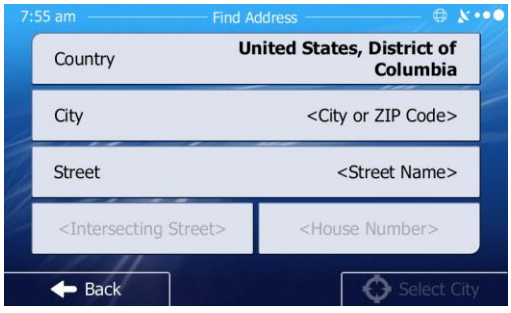
3.1.1 Entering an address or a part of the address

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

- The exact address, including house number
- The center of a city/town
- An intersection
- The midpoint of a street
- Any of the above, starting the search with the ZIP code (page 24)

3.1.1.1 Entering an address

To enter an address as the destination, do as follows:



1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap the following buttons: Find, Find Address.
3. By default, Xite Navigation proposes the country and state where you are. If needed, tap Country, enter the first few letters of the destination country or state/province on the keyboard, and select one from the list. If you select a country without a state/province, you can search for a city/town in all its states.

4. Select a new city/town:
   a. Tap City. The city/town of your current location is offered by default. For a local search, tap ✓ to accept it, otherwise continue with entering the destination city/town name.
   b. Start entering the name of the city/town on the keyboard.
   c. Find the city/town you need:
      - The most likely city/town name is always shown in the input field. To accept it, tap ✓.
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap Results). Select the city/town from the list.

5. Enter the street name:
   a. Tap Street.
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      - The most likely street name is always shown in the input field. To accept it, tap ✓.
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap Results). Select the street from the list.

6. Enter the house number:
   a. Tap <House Number>.
   b. Enter the house number on the keyboard. (To enter letters, tap QWE).
   c. Tap Done to finish entering the address. (If the entered house number cannot be found, the midpoint of the street is selected as the destination.)

7. A full screen map appears with the selected point in the middle. Tap Next to confirm selection. If necessary, tap the map somewhere else to modify the destination. The Cursor appears at the new location. Tap Next to confirm the destination, or tap Back to select a different destination.

8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap [More] to modify route parameters, or tap [Go!] and start your journey.

Tip!

If you know that you will use this destination frequently, before tapping [Next] to confirm the destination, put it on the list of your Favorites first: tap [More] then [Add to Favorites], give a name for the new Favorite, and tap [Done] to save the location. The map with the destination returns automatically. Now you can start your journey.

3.1.1.2 Entering an address starting with the street name

You can leave the city/town name empty and start the search with the street name. This way you can search in all streets of a state/province. Do as follows:

1. Follow steps 1-3 from the above section Entering an Address (page 20). (Note: If you select the country without a state/province, this function cannot work.)
2. Enter the street name:
   a. Tap [Street].
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      i. The most likely street name is always shown in the input field. To accept it, tap [✓].
      ii. If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap [Results]). Select the street from the list.
3. Enter the house number:
   a. Tap [<House Number>].
   b. Enter the house number on the keyboard. (To enter letters, tap [QWE]).
   c. Tap [Done] to finish entering the address. (If the entered house number cannot be found, the midpoint of the street is selected as the destination.)
4. A full screen map appears with the selected point in the middle. Tap [Next] to confirm the destination, or tap [Back] to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap [More] to modify route parameters, or tap [Go!] and start your journey.

3.1.1.3 Entering the midpoint of a street as the destination

You can navigate to the midpoint of a street if the house number is not available:

1. Select the country, state/province and city/town as described earlier (page 20).
2. Enter the street name.
3. Instead of entering the house number, tap Select Street. The midpoint of the street is selected as the destination.
4. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.1.4 Selecting an intersection as the destination

To enter an address as the destination, do as follows:

1. Select the country, state/province and city/town as described earlier (page 20).
2. Enter the street name.
3. Enter the intersecting street name:
   a. Tap <Intersecting Street>.
      i. If only a few intersecting streets exist, their list appears immediately.
      ii. In case of a longer street, the keyboard screen appears. Start entering the name of the intersecting street on the keyboard. As soon as the street names that match the entered string can be shown on one screen, their list appears automatically. Select from the list.
4. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.1.5 Selecting a city/town center as the destination

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

1. Select the country, state/province and city/town as described earlier (page 20).
2. Instead of entering the street name, tap Select City. This way the center of the displayed city/town becomes the destination of the route.
3. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
4. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.1.6 Entering an address with a ZIP code (US Only)

All of the above address searching possibilities can be performed with entering the ZIP code instead of the city/town name. Find below an example with a full address:

1. Select the country and state as described earlier (page 20).
2. Enter a new city/town using its ZIP code:
   a. Tap City.
   b. Tap 123 to open the numeric keypad.
   c. Start entering the ZIP code.
   d. Find the city/town you need:
      - The most likely ZIP code is always shown in the input field. To accept it, tap ✓.
      - If the desired number does not show up, open the list of results by tapping Results. Select the ZIP code from the list.
5. Enter the street name.
6. Enter the house number.
7. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.1.7 Tips on entering addresses quickly

- When you are entering the name of a city/town or a street:
  - Only those letters are offered on the keyboard that appear in possible search results. All other characters are grayed out.
  - As you are typing, the most likely result is always displayed in the input field. If the prediction is correct, tap ✓ to select it.
  - After entering a couple of letters, tap Results to list the items that contain the specified letters.
- You can speed up finding an intersection:
  - Search first for the street with a less common or less usual name; fewer letters are enough to find it.
  - If one of the streets is shorter, search for that one first. You can then find the second one faster.
- You can search for both the type and the name of a road. If the same word appears in several names, for example in the name of streets, roads and avenues, you can obtain the result faster if you enter the first letter of the street type: For example, enter 'PI A' to obtain Pine Avenue and skip all Pine Streets and Pickwick Roads.
- You can also search in ZIP codes. As ZIP codes consist of only a few characters, this is usually faster than entering the name of the city/town.

3.1.2 Selecting the destination from the Places of Interest (POI)

You can select your destination from the POIs included with Xite Navigation.
Using the same screen, you can find a POI in different ways:

- With the Quick Search feature, you can quickly find a nearby POI by its name

- With the preset search feature, you can find frequently searched types of POI with only a few screen taps
- You can search for a POI by its category
- You can search for a POI by its name

In addition, you can search for special services from the 'Where Am I?' screen.

3.1.2.1 Quick Search for a POI

The Quick Search feature lets you quickly find a POI by its name. The search is always carried out

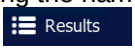
- along the recommended route if it exists or
- around your current location if there is no destination given.

1. Start the Quick Search function:
   - If you are on the Map screen, tap and then tap

   - If you are in the Navigation menu, tap

     ,

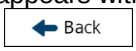
     and then tap

2. Using the keyboard, start entering the name of the Place.
3. After entering a few letters, tap 

   to open the list of Places with names containing the entered character sequence.
4. (Optional) The Places in the list are ordered by the length of the necessary detour (when navigating a route) or by their distance from the current position (when no destination is given). If you need to reorder the list, tap

   .
5. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
6. (Optional) Tap to see the details of the selected Place. Tap

   to return to the map.
7. A full screen map appears with the selected point in the middle. Tap

   to confirm the destination, or tap 

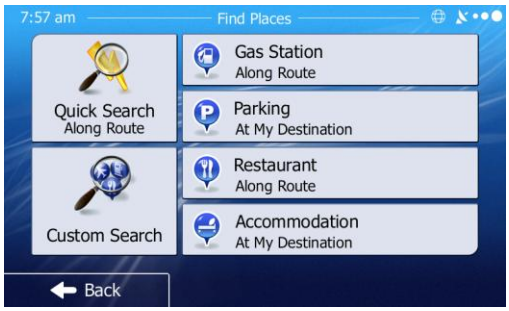
   to select a different destination.
8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap

   to modify route parameters, or tap

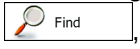
   and start your journey.

3.1.2.2 Searching for a POI using preset categories

The preset search feature lets you quickly find the most frequently selected types of POI.



1. If you are on the Map screen, tap

   to return to the Navigation menu.
2. In the Navigation menu, tap the following buttons: 

   ,

   .

3. The preset search categories appear:

If an active route exists, accommodation is searched around the destination of the route.
If there is no active route (destination is not selected), they are searched around the current position.
If the current position is not available either (no GPS signal), they are searched around the last known position.

4. Tap any of the quick search buttons to get an instant list of POIs.
5. Browse the list if necessary 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 POI is displayed at the top of the screen.
6. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
7. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

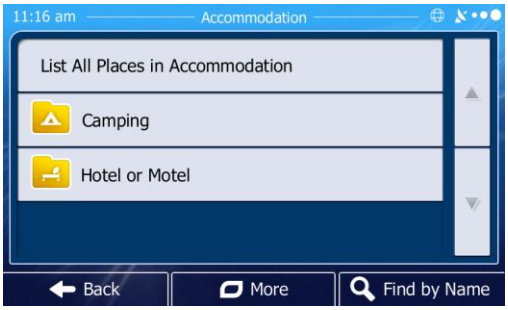
3.1.2.3 Searching for a POI by category

You can search for POI by their categories and subcategories.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap the following buttons: Find, Find Places.
3. Tap Custom Search.
4. Select the area around which the POI should be searched for:
   - Tap Around Here to search around the current position or if it is not available, around the last know position. (The result list will be ordered by the distance from this position.)
   - Tap In a City to search for a POI within a selected city/town. (The result list will be ordered by the distance from the center of the selected city/town.)
   - Tap Around Destination to search for a POI around the destination of the active route. (The result list will be ordered by the distance from the destination.)
   - Tap Along Route to search along the active 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 gas stations or restaurants. (The result list will be ordered by the length of the necessary detour.)

5. If you have selected In a City, select the city/town to search in.
6. Select one of the main POI categories (e.g. Accommodation) or tap List All Places to list all POIs around the selected location or along the route.

7. Select one of the POI subcategories (e.g. Hotel or Motel) or tap List All Places to list all Places in the selected main category around the selected location or along the route.
8. Sometimes the list of brands in the selected POI subcategory appears. Select one brand or tap List All Places to list all POIs in the selected subcategory around the selected location or along the route.
8. Finally, the results appear in a list.
9. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
10. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.



3.1.2.4 Searching for a POI by name

You can search for POIs by their names. You can search around different locations or along your route in the whole POI database or in one POI category or subcategory only.

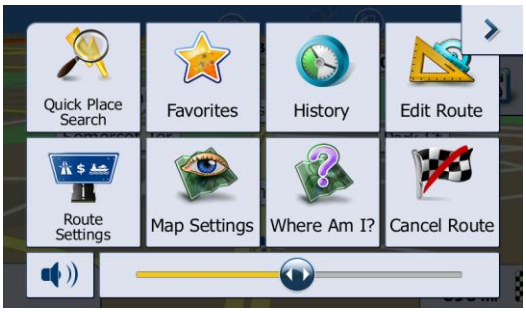
1. Follow Steps 1-5 from above
2. Select one of the main POI categories (e.g. Accommodation) to search in or tap Find by Name to search among all POIs.
3. Select one of the POI subcategories (e.g. Hotel or Motel) to search in or tap Find by Name to search in the selected Place category.
4. Using the keyboard, start entering the name of the POI.
5. After entering a few letters, tap Results to open the list of POIs with names containing the entered character sequence.
6. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
7. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.2.5 Selecting nearby assistance from 'Where Am I?'

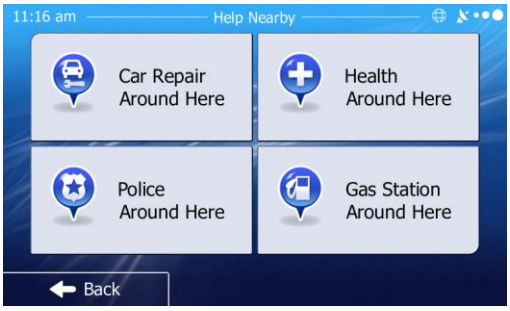
You can quickly search for nearby assistance from the 'Where Am I?' screen.

1. On the Map screen, tap to open the Quick menu.
2. Tap

, and then Help Nearby.



3. Preset search categories appear, all for searching around the current position (or around the last known position if the current position is not available):



4. Tap any of the quick search buttons to get an instant list of that type of POIs.
5. A full screen map appears with the selected point in the middle. Tap Next to confirm the destination, or tap Back to select a different destination.
6. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.3 Selecting a map location as the destination

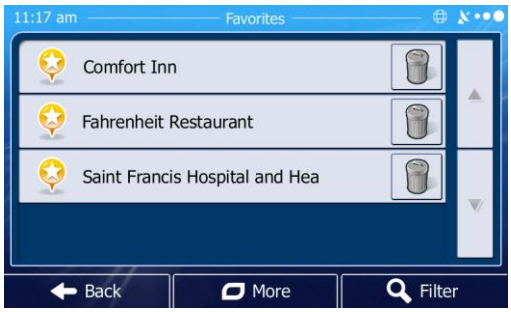
1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap the following buttons: Find, Find on Map.
3. Locate your destination on the map: move and scale the map as needed.

4. Tap the location that you want to select as your destination. The Cursor appears.
5. Tap Select to select the Cursor as the destination.
6. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go! and start your journey.

3.1.4 Selecting the destination from your Favorites

You can select a location that you have already saved as a Favorite to be your destination. Adding a location to the list of Favorite destinations is described on page 37.

1. Access the list of Favorites:
   - If you are on the Map screen, tap to open the Quick menu.
   - If you are in the Navigation menu, tap Find.
2. Tap Favorites. The list of Favorite destinations is displayed.

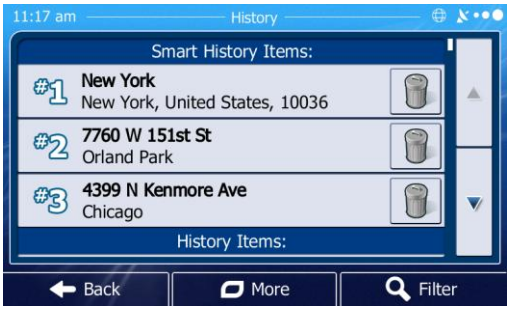


3.1.5 Selecting one of the most likely destinations (Smart History)

The destinations that you have set earlier appear in the History list. Two of those recent destinations are shown in the Destination menu for easy access. Smart History offers these locations based on your navigation habits, 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 predict your desired destination.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap Find.
3. Tap the #1 or the #2 destination in the History field.

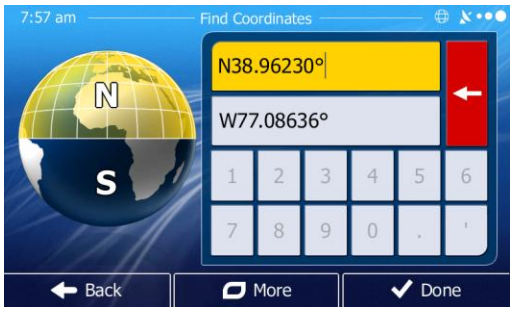
3.1.6 Selecting a recent destination from the History



The destinations that you have set earlier appear in the History.

1. Access the History:
   - If you are on the Map screen, tap and then tap History.
   - If you are in the Navigation menu, tap Find and then tap History.
2. The list of recent destinations appears. Smart History promotes three destinations to the first page based on your previous routes (most likely destinations). The rest of the destinations are ordered by time they were last selected. If necessary, scroll the list to see earlier destinations.
3. Select a destination from the list.

3.1.7 Entering the coordinate of the destination

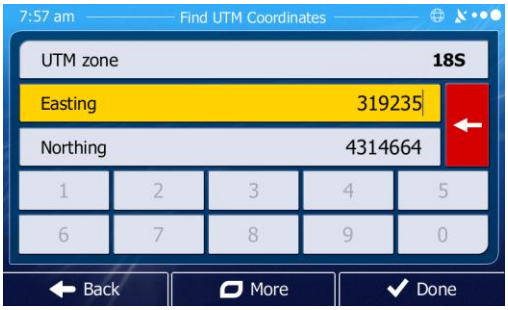


You can also select a destination by entering its coordinate.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap Find.
3. Open the More menu and tap Coordinate.
4. 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.

5. If necessary, tap More then UTM and enter the coordinate in UTM format.

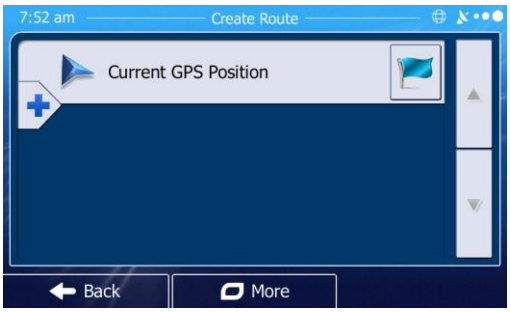
6. When finished, tap Done.



3.1.8 Building a route from the list of destinations (Create Route)

You can also build your route destination by destination from the My Route menu.

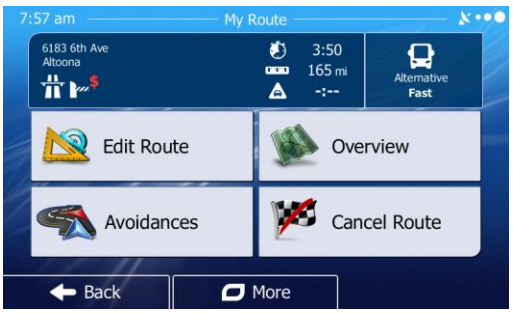
1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap Create Route.
4. There is only one line in the list of route points, the start point of the route, normally the current GPS position.
5. Tap ✚ to select the destination.
6. The Destination menu appears and you can select the destination of the route the same way as described in the previous sections.
7. When the new destination is selected, the list returns.
8. To add more destinations, tap ✚ where you want to insert the new route point in the list, and repeat the above procedure.
9. Select Go when finished



3.2 Viewing the entire route on the map

It is easy to get a map overview of the active route. Do as follows:

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap Overview. The active route is displayed in its full length on the map together with additional information and controls.



3.3 Checking route parameters and accessing route related functions

You can check different parameters of the route recommended by Xite Navigation.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. The following pieces of information are displayed:
   - The name and/or address of the destination.
   - Warning icons (if any). They provide extra information about your route (e.g. unpaved roads or toll roads to be taken).
   - The total time of the route.
   - The total length of the route.
   - The symbol of the vehicle type used in route calculation.
   - The route planning method (e.g. Fast).

4. You have the following options on this screen (for detailed instructions on how to use them, see the next chapter):
   - Tap Edit Route to edit the route: to add or remove destinations or change their sequence. You can also set a route start point other than your current location. This can be useful to plan and save a future trip.
   - Tap Overview to display the entire route on the map.
   - Tap Avoidances to bypass a part of the route.
   - Tap Cancel Route to delete the active route.
   - Tap More to open a list with more options like selecting from route alternatives, changing route parameters, simulating the route, saving the active route or loading a previously saved route.
   - Tap Back to return to the Navigation menu.

3.4 Modifying the route

When navigation is already started, there are several ways to modify the active route. The following sections show some of those options.

3.4.1 Selecting a new destination when already having a route: New Route, Waypoint or Final Destination

If you already have a recommended route and you select a new destination as described in the above sections, the application will ask you whether to start a new route, add a new waypoint (intermediate destination) to the route or append the newly selected destination at the end of the current route.

- Tap

to plan a new route to the newly selected location. The previous destination and waypoint(s) are deleted.
- Tap

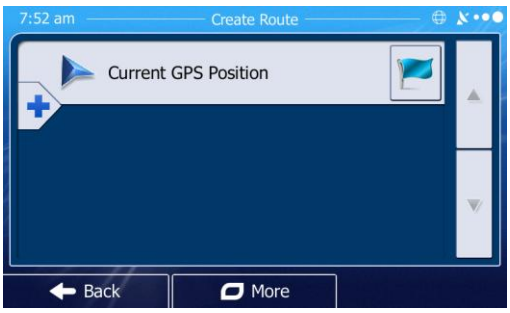
to add the newly selected location as an intermediate destination to your route. The other destinations of the route remain intact.
Note: the new waypoint is placed among destinations to keep the route optimal. To decide where a waypoint is to appear, use the Edit Route feature.
- Tap

to append the newly selected destination at the end of the route. The other destinations of the route remain intact. The previous final destination is now the last waypoint.

3.4.2 Setting a new starting position for the route

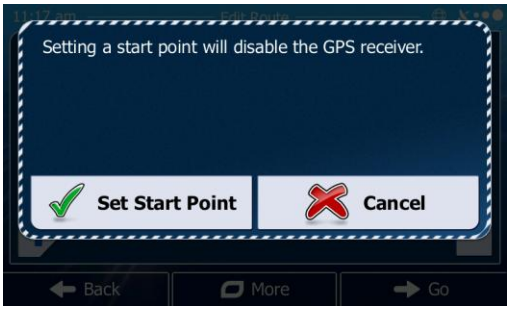
For normal navigation, all routes are planned from the current position. In order to check future routes, simulate them or see their length in time and distance, you can turn off the GPS receiver. Then you can set the starting point of the route to a different location than the current GPS position.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. If you already have a route, tap Edit Route. If you are starting a new route, tap Create Route.



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

5. The Destination menu appears and you can select the start point of the route the same way you select a destination.



6. When the new start point is set, tap Go.
7. The map returns with a transparent Vehimarker (showing that there is no GPS reception). If an active route already existed, it is now recalculated starting from the selected location.

8. To return to normal navigation, tap **Turn on GPS**.

3.4.3 Editing the list of destinations (Edit Route)

You can edit the route by modifying the list of destinations. You can add or remove destinations, modify the start position or reorder the list.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap Edit Route.
4. You have the following options:
   - Tap to add a new destination.
   - Tap to delete a destination.
   - Tap to modify the start point of the route.
   - Tap More to reorder the list. You can do it manually or you can let the application optimize the route for you.

3.4.4 Pausing the active route

You do not need to pause the active route. When you start driving again Xite Navigation restarts the voice instructions from your position.

3.4.5 Canceling the active route

To cancel the navigated route, do one of the following:

- If you are on the Map screen, tap and then tap

. (If you have a route with waypoints, you need to tap

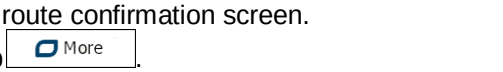
until all waypoints are deleted.)
- In the Navigation menu, tap

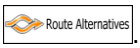
and then tap

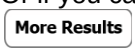
. The active route is deleted with all its waypoints.

3.4.6 Checking route alternatives when planning the route

You can select from different route alternatives or change the route planning method after you have selected a new destination. Do as follows:

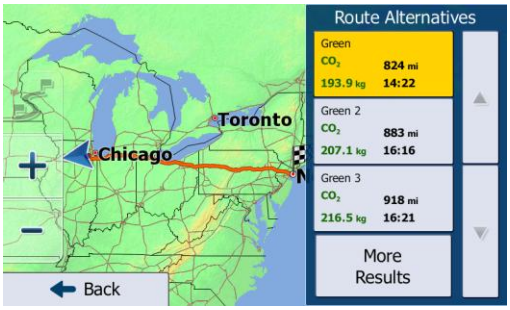
1. Select a destination as explained earlier, and get to the route confirmation screen.
2. Tap 

.
3. Tap 

.
4. You see the basic details of three route alternatives with the selected route planning method. Tap any of them to see it on the map.
5. Or if you cannot find a good alternative, tap 

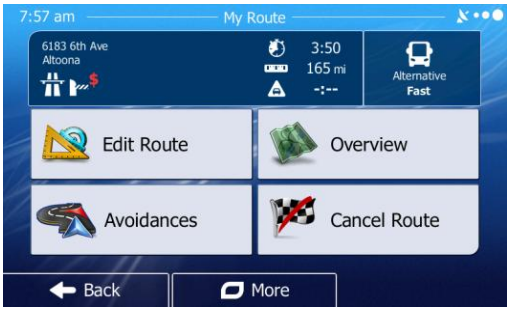
and scroll down for routes with different routing methods.
6. Select one of the route alternatives and tap

to return to the previous screen. Xite Navigation recalculates the route. The orange line now shows the new recommended route.

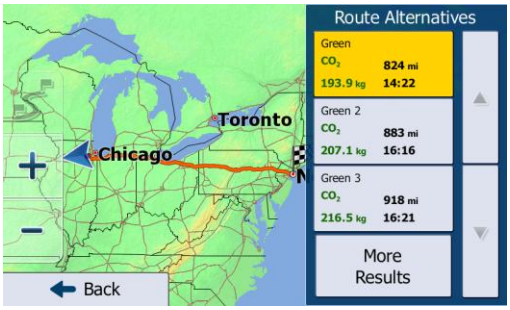


3.4.7 Checking route alternatives for an existing route

To recalculate the active route with a different route planning method, you can modify the Route settings (page 48). There is another way to do this and to compare different route alternatives with the same route planning method. Do as follows:



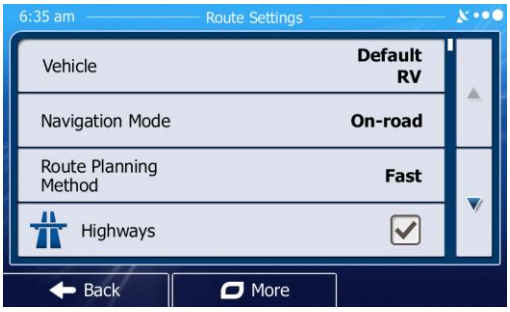
1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap More.
4. Tap Route Alternatives.



5. You see the basic details of three route alternatives with the selected route planning method. Tap any of them to see it on the map.
6. Or if you cannot find a good alternative, tap More Results and scroll down for routes with different routing methods.
7. Select one of the route alternatives then tap and hold Back for a few seconds to return to the Map screen. Xite Navigation recalculates the route. The orange line now shows the new recommended route.

3.4.8 Changing the vehicle used in route planning

To recalculate the active route for a different vehicle, do as follows. These changes can also be made in Settings (page 48).



1. On the Map screen, tap and then tap Route Settings.
2. Tap Vehicle and then tap one of the following:
   - Car
   - Default RV
3. Xite Navigation recalculates the route optimized for the new vehicle type. The orange line now shows the new recommended route.

3.4.9 Changing the road types used in route planning

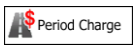
To recalculate the active route with different road type preferences, do as follows. These changes can also be made in Settings (page 48).

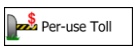
1. On the Map screen, tap and then tap

.

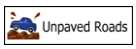
2. Tap any of the listed road types to modify the route. If needed, scroll the list for all road types. You have the following options (their order depends on the selected vehicle type):

   -

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

 - 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.
   - 

 - Xite Navigation includes toll roads (pay roads where there is a per-use charge) in the routes by default. If you disable toll roads, Xite Navigation plans the best toll-free route.
   -

 - Xite 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.
   - 

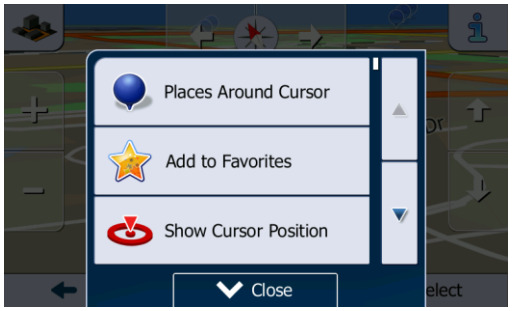
 - Xite Navigation excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.
   -

 - Carpool or HOV lanes can be used if a given number of passengers are traveling in the vehicle. You should check whether you are allowed to use carpool lanes before enabling this road type.

3. Tap

 to confirm the changes. Xite Navigation recalculates the route. The orange line now shows the new recommended route.

3.5 Saving a location as a Favorite destination



You can add any location to Favorites, the list of frequently used destinations. Planning a route to one of the Favorite destinations is described on page 28.

1. Select a destination as described before. It can be an address, a POI, any location on the map, a previously used destination from History, etc.
2. When the full screen map appears with the selected location in the middle, tap More.
3. Tap Add to Favorites.
4. (optional) Using the keyboard, you can change the name offered for the Favorite. Tap 123 to enter numbers or symbols.
5. Tap Done to save the location as a new Favorite destination.

3.6 Saving a location as an Alert Point

You can save any map location as an Alert Point (for example a speed camera or a railroad crossing).

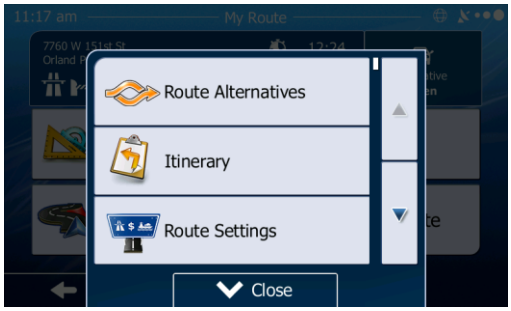
1. Browse the map and select a location. The red Cursor appears there.
2. Tap More.
3. Scroll down the list and tap Add Alert Point.
4. On the newly opened screen, select the type of the Alert Point, the direction from which you expect the alert, and (if applicable) the speed limit for this Alert Point.
5. Tap Save to save the location as a new Alert Point.

3.7 Editing an Alert Point

You can edit a previously saved or uploaded Alert Point (for example a speed camera or a railroad crossing).

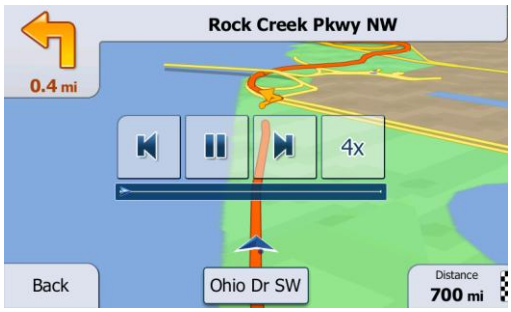
1. Browse the map and select the Alert Point to edit. The red circle appears around the Alert Point.
2. Tap More.
3. Scroll down the list and tap Edit Alert Point.
4. On the newly opened screen, modify the type of the Alert Point, the direction from which you expect the alert, or (if applicable) the speed limit for this Alert Point.
5. Tap Save to save the changes to the Alert Point.

3.8 Watching the simulation of the route



You can run a simulated navigation that demonstrates the active route. Do as follows:

1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap More.
4. Scroll down the list and tap Simulate Navigation. The simulation starts from the starting point of the route, and using a realistic speed, it leads you through the whole recommended route.



1. (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 (maneuver).
   - : Pause the simulation.
   - : Jump to the previous route event (maneuver).
   - : Tap to increase the speed of the simulation to 4, 8 or 16 times faster. Now tap again to return to the normal speed.
2. Tap Back to stop the simulation.

4 Off-Road Navigation

When first started, Xite Navigation calculates routes using the road network of the high quality vector maps provided with the product. You can switch the application to off-road mode in Navigation settings in one of the following ways:

- From the Main menu, tap,

,

and then

.
- From the Map screen, tap
,

and then

.

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 maneuvers, just route points and straight lines between them).

4.1 Selecting the destination of the route

Selecting the start point or a destination (waypoint or final destination) is the same as described at on-road navigation. The only difference is that route points are linked to form a route with straight lines regardless of the road network and traffic regulations.

4.2 Navigating in off-road mode

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

- your position and heading is not aligned with the nearest road and
- there is no turn by turn navigation, just a recommended direction.

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

When you reach a waypoint, the orange line will show the direction to the next destination. (Future legs of the route are shown with orange lines.)
When you reach the final destination, navigation ends.

5 LV (Large Vehicle) Navigation (optional)

The optional Xite LV Navigation software gives more options for RV drivers:

- You can enter the parameters of your vehicle and Xite LV Navigation calculates your routes with taking available weight, height, etc. restrictions into account.
- Based on the dimensions and other entered parameters of your vehicle, Xite LV Navigation warns you when you are approaching a restricted road segment or when potential hazards are possible while driving without a route entered and your infotainment system is on.
- During routing to a destination Xite LV Navigation will use your entered vehicle attributes and settings to calculate an efficient route that will avoid, when possible, known hazards based on the available map data.
- When selecting RV as the vehicle type in Xite Navigation, U-turns are disabled from routes as much as possible.

Warnings are both visual and audible. There are different kinds of warnings:

- When approaching a restricted road segment without a route, you are warned that there is a restricted area ahead and prompted to acknowledge.
- Restricted road segments are excluded from your routes but in some cases some restricted roads need to be used to reach the given destination. In this case you receive a warning and you must accept that you have restricted roads in your route or you can stop the navigation and continue without an active route.

Note!

Please note that Xite LV Navigation is only as accurate and comprehensive as the restrictions received with the map data. Restrictions may not cover lower priority roads and in most cases the coverage changes as you move around your map region. You are obligated to always obey the restrictions displayed on the road.
Please remember to check back to www.naviextras.com and ensure you have the most up-to-date map and hazard data available.

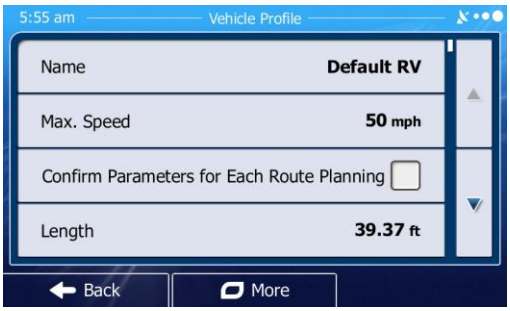
5.1 Setting up vehicle parameters

When you use Xite LV Navigation with a RV, you need to select a RV type vehicle profile in Route settings and enter the parameters of your vehicle. These parameters are used in route calculation to bypass roads that are restricted for your RV. Do as follows:

1. If you are on the Map screen, tap [Menu] to return to the Navigation menu.
2. In the Navigation menu, tap [Settings].
3. Tap [Route Settings].
4. Tap [Vehicle].

5. Tap the button at the Default RV profile.
6. The list of vehicle profile parameters appear. Scroll the list and tap any of the lines to change the parameters. The parameters are intuitive. In addition, you have the following option:

- Confirm Parameters for Each Route Planning: When enabled, the list of vehicle parameters always appears before route calculation. This helps you quickly adjust the parameters when some of them (the actual weight for instance) often change.



7. When finished with entering vehicle parameters tap Back

While this profile is selected, the parameters of your vehicle are taken into account when planning routes. Note that this leads to a safe route for your RV only if map data contains the weight, height, etc. restrictions of the road network in your area.

Tip!

Speed limits for RVs may not be available for all roads. It is advised to enter the maximum allowed speed in your area for your vehicle instead of the maximum speed your RV is capable of.

6 Reference Guide

On the following pages you will find the description of the different concepts and menu screens of Xite Navigation.

6.1 Concepts

6.1.1 Smart Zoom

Smart Zoom provides much more than just a usual automatic zoom feature:

- **While following a route:** when approaching a turn, it will zoom in and raise the view angle to let you easily recognize your maneuver at the next junction. If the next turn is at a distance, it will zoom out and lower the view angle to be flat so you can see the road in front of you.
- **While driving without an active route:** Smart Zoom will zoom in if you drive slowly and zoom out when you drive at high speed.

6.1.2 Daytime and night color themes

Xite Navigation uses different color themes during the day and during the night for both the map and the menu screens.

- Daytime colors are similar to paper road maps, and the menus are bright.
- The night color themes use dark colors for large objects to keep the average brightness of the screen low.

Xite Navigation offers different daytime and night color profiles. It can also switch automatically between the daytime and the night schemes based on the current time and GPS position a few minutes before sunrise, when the sky has already turned bright, and a few minutes after sunset, before it becomes dark.

6.1.3 Route calculation and recalculation

Xite Navigation calculates the route based on your preferences:

- Route planning methods:
  - Fast: Gives a quick route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.
  - Short: Gives a route that has the smallest total distance of all possible routes. It can be practical for slow vehicles.
  - Green: Gives a quick but fuel efficient route based on the fuel consumption data given in Route settings (page 48). Travel cost and CO_2 emission calculations are estimations only. They cannot take elevations, curves and traffic conditions into account.
  - Economical: For vehicle types where Green routing is not available, this method combines the benefits of Fast and Short: Xite Navigation calculates as if it were calculating the Fast route, but it takes other roads as well to save fuel.
  - Easy: Results in a route with fewer turns and no difficult maneuvers. With this option, you can make Xite Navigation to take, for example, the freeway instead of a series of smaller roads or streets.
- Vehicle types:

  When creating a new vehicle profile, select one of the below vehicle types. Besides the below mentioned conditions, vehicle dimensions, weight and other attribute restrictions can also be taken into account when planning a route by selecting RV in the optional Xite LV Navigation package.
  - Car.
    - Maneuver restrictions and directional constraints are taken into account when planning a route.
    - Roads are used only if access for cars is allowed.

    - Private roads and resident-only roads are used only if they are inevitable to reach the destination.
    - Walkways are excluded from routes.
- Default RV
    - Maneuver restrictions and directional constraints are taken into account when planning a route.
    - Roads are used only if access for RVs is allowed.
    - Private roads, resident-only roads and walkways are excluded from routes.
    - U-turns are excluded when possible from routes (turning back on a divided road is not considered as a U-turn).
- Road types used or avoided in route calculation:
    - Highways
    - Period Charge
    - Per-use Toll
    - Ferries
    - Unpaved Roads
    - Carpool

For further information about Route settings, see page 48.

6.1.4 Green routing

Route calculation is not only about finding the quickest or shortest route. For the CAR vehicle type, you can also check the fuel consumption and CO_2 emission when planning a route and you can create cost effective routes with less effect on the environment.

In Route settings, you can edit the parameters of the selected vehicle. Enter the fuel consumption values and the price of the fuel. You can also select whether you want to see the difference between your route and the green route even if the selected routing method is not Green.

After the above parameters are set, select Green as route planning method to get a fast but also fuel efficient route. Note that travel cost and CO_2 emission calculations are estimations only. They cannot take elevations, turns, curves and traffic conditions into account. Also, this routing is not meant to give you the "greenest" route of all. It is still important to travel quickly so the result is a fast route with low fuel consumption and CO_2 emission.

With the CAR vehicle type, whichever route planning method is selected, the Green details are also shown when you confirm the route:

If the selected route planning method is not Green, and you have allowed the application to show the green alternative, the price, fuel consumption and CO_2 emission differences between your selected route and the Green route are also shown on this screen:

Tap the field with these details to switch the route to Green immediately.

6.1.5 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 not part of Xite Navigation. You can download them from www.naviextras.com or you can upload points in a specific text file if needed.

You can also add your own Alert Points or edit the previously uploaded points. See page 37 for details.
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 Sound and Warning settings (page 46).

The following alert types are available:

- Audio warning: beeps can be played while you are approaching one of these points, or extra alert sounds 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 Map screen while you are approaching one of these cameras.

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 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 can is different when you exceed the speed limit.

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 ensure on your own liability that using this feature is legal in the country where you intend to use it.

6.1.6 Speed limit warning

Maps may contain information about the speed limits of the road segments. Xite Navigation is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer), or may not be fully correct for all roads in the map.
The maximum speed set in the vehicle profile is also used for this warning. Xite Navigation alerts you if you exceed the preset value even if the legal speed limit is higher.
Speed warning can be fine-tuned in Sound and Warning settings (page 46).
You can set the relative speed above which the application initiates the warning.
The following alert 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.

6.1.7 GPS position quality indicator and current time

You can find useful information in the top corners of menu screens.

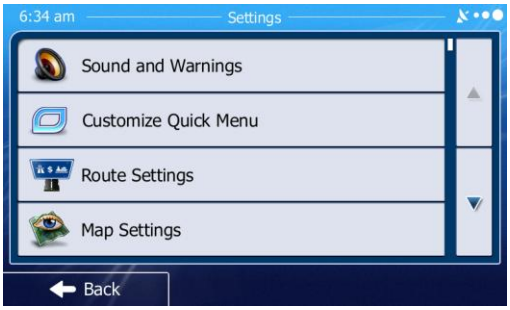
The current time is displayed in the top left corner.
In the top right corner, the GPS reception quality icon shows the current accuracy of the position information. Please see chart on following page:

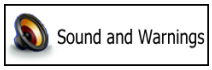
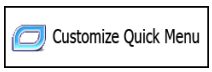
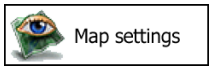
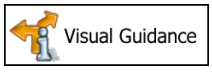
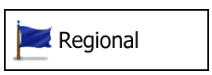
Icon	Description
	Xite Navigation has no connection to the GPS receiver: GPS navigation is not possible. Devices with a built-in GPS receiver are permanently connected. On such devices, the icon does not appear in normal circumstances.
	Xite Navigation is connected to the GPS receiver, but the signal is too weak and the receiver cannot determine the GPS position. GPS navigation is not possible.
	Only a few satellites are received. Position information is available, but elevation (altitude) cannot be calculated. GPS navigation is possible, but the position error may be significant.
	Altitude information is available; the position is a 3D position. GPS navigation is possible.

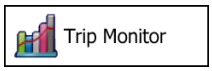
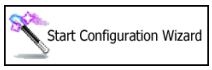
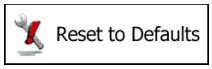
6.2 Settings menu

You can configure the program settings, and modify the behavior of Xite Navigation. Tap the following buttons: Menu, Settings.

The Settings menu has several options. Tap or scroll with your finger to see the full list.

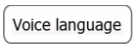
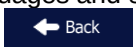
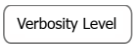


Button	Description
	Adjust the sound volume, mute your device or change the voice guidance language. In addition, you can enable and set up different warnings and alerts.
	The content of the Quick menu (page 16) is fully customizable. Tap the button you want to change, and select its new function from the list.
	These settings determine how routes will be calculated. Select the type of vehicle you are driving, the road types used in route planning, and the route planning method.
	You can fine-tune the appearance of the Map screen. Adjust the map view to your needs, choose suitable color themes from the list for both daytime and night use, change the blue arrow to a 3D car model, show or suppress 3D buildings, turn track logging on or off, and manage you Place visibility sets (which Places to show on the map).
	Adjust how the software helps you navigate with different kinds of route related information on the Map screen.
	Display related settings include menu animations and separate skins for daytime and night use.
	These settings allow you to customize the application for your local language, measurement units, time and date settings and formats, as well as to choose the time zone.

	Trip logs and track logs contain useful information about your trips. Trip logs can be saved manually when you reach your destination or you can turn on the automatic saving here.
	The application collects usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. Here you can enable or disable collecting these logs.
	Modify the basic software parameters set during the initial setup process. For details, see page 7.
	Delete all saved data and reset all settings to their factory defaults.

6.2.1 Sound and Warnings

Adjust the sound volume, mute your device or change the voice guidance language. In addition, you can enable and set up different warnings and alerts.

Button	Description
	Tap this button to adjust the volume of the different sounds in the application. A new screen shows the different sound types and their controls. See below for details.
	This button shows the current voice guidance profile. By tapping the button, you can 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.
	Tap this button to set the verbosity of the voice instructions: how much they tell and how often they speak.
	Maps may contain information about the speed limits of the road segments. Xite Navigation is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer), or may not be fully correct for all roads in the map. The maximum speed set in the vehicle profile is also used for this warning. Xite Navigation alerts you if you exceed the preset value even if the legal speed limit is higher. This setting lets you decide whether you wish to receive visible and/or audible warnings. Adjust the slider to set the relative speed above which the application initiates the warning. The following alert 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. If you prefer to see the speed limit sign on the map all the time (normally it is shown only if your speed exceeds it), you can set it here.

Button	Description
Alert Point Settings	This feature allows you to receive a warning when approaching a Road Safety Camera or other Alert Points like school zones or railroad crossings. You must ensure on your own liability that using this feature is legal in the country where you intend to use it. You can set the alert for the different Alert Point categories individually. The following alert types are available: • Audio warning: beeps can be played while you are approaching one of these points, or extra alert sounds 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 Map screen while you are approaching one of these cameras. 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 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.
Warning Sign Alerts	Maps may contain driver alert information. Tap this button to turn on or off these warnings and to set the distance from the hazard to receive the warning at. These can be set individually for the different warning types.

You can control the volume of the following sound types:

Button	Description
Master	This is the main volume control for Xite Navigation. These controls affect all below sounds. It is recommended that the Master volume setting be set at 100% and use the NAV Volume settings from the XSG2NA Infotainment System to set the desired audio level. Please see your user manual for your Infotainment System.
Guidance	These controls affect the volume of the guidance sounds (verbal instructions).
Alerts	These controls affect the volume of the non verbal alert sounds (beeps).
Key Sounds	Key sounds provide audible confirmation of tapping the touch screen. These controls affect key sounds.

Controls for each sound type:

Button	Description
Volume slider	Adjusts the volume of the related sound.
	Use the switch to mute the related sound. The slider becomes inactive. Tap again to re-enable.

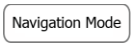
6.2.2 Customize Quick Menu

The content of the Quick Menu (page 16) is fully customizable. Tap the button you want to change, and select its new function from the list.

The list of available functions and their descriptions are on page 16.

6.2.3 Route settings

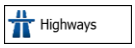
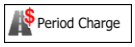
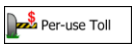
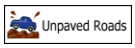
These settings determine how routes will be calculated.

Button	Description
	You can set the type of vehicle you will use to navigate the route. Based upon this setting, some of the road types can be excluded from the route, or some of the restrictions may not be taken into account in route calculation. You can edit the parameters of the selected vehicle profile.
	On-road navigation creates a turn by turn itinerary using the road network on the map. Switch to off-road navigation to navigate between destinations in a straight line.
	The route calculation can be optimized for different situations and vehicle types by changing the planning method. See below for details.
	If the selected routing method is not Green, you can have your route compared to the best green alternative on the screen when confirming the route. If this alternative is much better than the selected method, you can quickly switch to Green mode.

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 if possible.

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 will be used but only as much as necessary. In this case a warning icon will be shown on the My Route screen, and the part of the route not matching your preference will be displayed in a different color on the map.

In the list of road types you can see in how many segments and what total length of the road type is used in the current route.

Button	Description
	You might need to avoid freeways when you are driving a slow car or you are towing another vehicle.
	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.
	Xite Navigation includes toll roads (pay roads where there is a per-use charge) in the routes by default. If you disable toll roads, Xite Navigation plans the best toll-free route.
	Xite 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.
	Xite Navigation excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.
	Carpool or HOV lanes can be used if a given number of passengers are traveling in the vehicle. You should check whether you are allowed to use carpool lanes before enabling this road type.

Vehicle profiles:

When you first tap , you see the list of default vehicle profiles. You have the following options:

Button	Description
	You can edit the parameters of the vehicle profile.
	Tap this button to reveal the below options.
	Tap this button to reset all vehicle profiles to their default settings.

Vehicle types:

When creating a new vehicle profile, select one of the below vehicle types. Besides the below mentioned conditions, dimension, weight etc. can also be taken into account when planning a route if your vehicle is equipped with the optional Xite LV (Large Vehicle) Navigation.

- Car:
  - Maneuver restrictions and directional constraints are taken into account when planning a route.
  - Roads are used only if access for cars is allowed.
  - Private roads and resident-only roads are used only they are inevitable to reach the destination.
  - Walkways are excluded from routes.
- Default RV:
  - Maneuver restrictions and directional constraints are taken into account when planning a route.
  - Roads are used only if access for RVs is allowed.
  - Private roads, resident-only roads and walkways are excluded from routes.
  - U-turns are excluded from routes (turning back on a divided road is not considered as a U-turn).

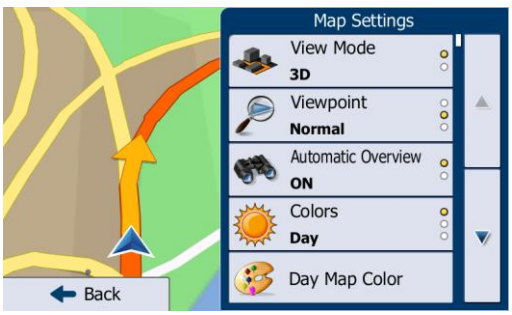
Route Planning Method types:

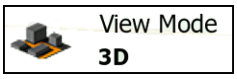
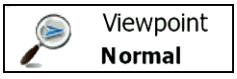
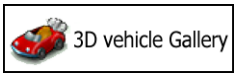
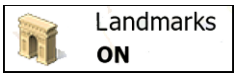
Button	Description
Fast	Gives a quick route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.
Short	Gives a short route to minimize the distance to travel. It can be practical for slow vehicles. Searching for a short route regardless of the speed, this route type is rarely practical for normal vehicles.
Green	Gives a quick but fuel efficient route based on the fuel consumption data given in Route settings (page 48). Travel cost and CO_2 emission calculations are estimations only. They cannot take elevations, curves and traffic conditions into account.
Economical	For vehicle types where Green routing is not available, this method combines the benefits of Fast and Short: Xite Navigation calculates as if it was calculating the Fast route, but it takes other roads as well to save fuel.
Easy	Results in a route with fewer turns and no difficult maneuvers. With this option, you can make Xite Navigation to take, for example, the freeway instead of a series of smaller roads or streets.

6.2.4 Map settings

You can fine-tune the appearance of the Map screen. Adjust the map view to your needs, choose suitable color themes from the list for both daytime and night use, show or hide optional 3D buildings, turn track logging on or off, and manage you POI visibility sets (which POIs to show on the map).

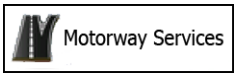
The map is always shown on the screen so that you can see the effect when you change a setting.



Button	Description
	Switch the map view between a 3D perspective view and a 2D top-down view.
	Adjust the basic zoom and tilt levels to your needs. Three levels are available.
	When selected, the map zooms out to show an overview of the surrounding area if the next route event (maneuver) is far. When you get close to the event, the normal map view returns.
	Switch between daytime and night color modes or let the software switch between the two modes automatically a few minutes before sunrise and a few minutes after sunset.
	Select the color scheme used in daytime mode.
	Select the color scheme used in night mode.
	Replace the default position marker to one of the 3D vehicle models. You can select separate icons for different vehicle types selected for route planning. Separate icons can be used for car, pedestrian and the other vehicles.
	Show or suppress 3D landmarks, 3D artistic or block representations of prominent or well-known objects. (optional)
	Show or suppress 3D city models, 3D artistic or block representation of full city building data containing actual building size and position on the map. (optional)
	Show or suppress the 3D elevation of the surrounding terrain. (optional)
	Turn on or off track log saving, that is, saving the sequence of the locations your journeys go through.
	Select which POIs to show on the map while navigating. Too many POIs make the map crowded so it is a good idea to keep as few of them on the map as possible. For this, you have the possibility to save different POI visibility sets. You have the following possibilities: • Tap the checkbox to show or hide the POI category. • Tap the name of the POI category to open the list of its subcategories. • Tap to save the current POI visibility set or to load a previously saved one. Here you can also revert to the default visibility settings.

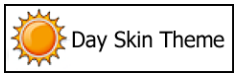
6.2.5 Visual guidance settings

Adjust how the software helps you navigate with different kinds of route related information on the Map screen.

	The data fields in the corner of the Map screen can be customized. Tap this button and select the values you want to see. The values can be different when you navigate a route from when you are just cruising without a given destination. You can select general trip data like your current speed or the altitude, or route data related to your final destination or the next waypoint on your route.
	You may need a gas station or a restaurant during your journey. This feature displays a new button on the map when you are driving on freeways. Tap this button to open a panel with the details of the next few exits or service stations. Tap any of them to display it on the map and add it as a waypoint to your route if needed.
	Select the service types displayed for the freeway exits. Choose from the POI categories.
	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. You can turn this feature on or off.
	If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. You can turn this feature on or let the map be displayed for the whole route.
	Turn on the route progress bar to see your route as a straight line on the left side of the map. The blue arrow represents your current position and moves up as you travel. Waypoints are also displayed on the line.

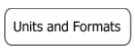
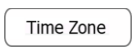
6.2.6 Display settings

Display related settings include menu animations, separate skins for daytime and night use and the brightness of the display.

	When animation is turned on, buttons on menus and keyboard screens appear in an animated way. Screen transitions are also animated.
	Select the style and colors of the application used in daytime mode.
	Select the style and colors of the application used in night mode.

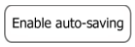
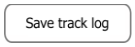
6.2.7 Regional settings

These settings allow you to customize the application for your local language, measurement units, time and date settings and formats, as well as to choose the time zone.

Button	Description
	You can set the distance units to be used by the program. Xite Navigation may not support all the listed units in some voice guidance languages. Select between 12 and 24 hours time display and the various international date display formats. You can also set other country specific units used to display different values in the application.
	By default, time zone is taken from the map information and adjusted by your current location. Here you can set time zone and daylight saving manually.

6.2.8 Trip monitor settings

Trip logs contain useful information about your trips. Trip logs can be saved manually when you reach your destination or you can turn on the automatic saving here. You can access these logs in the Trip monitor. Trip monitor is available from the More menu.

	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.
	This is not a button. This line shows the current size of the trip database, the sum of all trip and track logs saved.
	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 the track log whenever it saves a trip.

6.2.9 Log collection settings

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

Here you can enable or disable collecting these logs.

	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.
	Anonymous track logs are collected for later development purposes. Your trips can help us improve the quality and coverage of maps.

7 Glossary

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.

Active Route

The currently navigated route. Whenever the destination is set, the route is active until you delete it, reach your destination or you quit Xite Navigation. See also: Route.

City Center

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

Color theme

Xite Navigation comes with different color themes for daytime or night use of the map and menu screens. Themes are custom graphic settings and they can have different colors for streets, blocks or surface waters in 2D and 3D modes, and they display shades or shadows in different ways in 3D mode.
One daytime scheme and one night scheme is always selected for the map and for the menus. Xite Navigation uses them when it switches from day to night and back.

GPS accuracy

Several factors have 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.

Map

Xite Navigation works with digital maps which are not simply the computerized versions of traditional paper maps. Similarly to the paper road maps, the 2D mode of digital maps show you streets, roads, and elevation is also shown by colors.
In 3D mode, you can see the altitude differences, for example valleys and mountains, elevated roads, and in selected cities optional 3D landmarks and 3D buildings are also displayed.
You can use digital maps interactively: you can zoom in and out (increase or decrease the scale); you can tilt them up and down, and rotate them left and right. In GPS-supported navigation, digital maps facilitate route planning.

North-up map orientation

In North-up mode the map is rotated so its top always faces north. This is the orientation for example in Find on Map.

Road Safety Camera

Special Alert Points for speed, red light or bus lane cameras. Different data sources are available. You can configure Xite Navigation to warn you when you approach one of these cameras.
Detecting the location of Road Safety Cameras is prohibited in certain countries. It is the sole responsibility of the driver to check whether this feature can be used during the trip.
The software is capable of showing and warning for more than just cameras. Various other types of optional proximity Alert Points like school zones and railroad crossings are also available.

Route

A sequence of route events, i.e. maneuvers (for example, turns and traffic circles) to reach the destination. The route contains one start point and one or more destinations. The start point is the current (or last known) position by default. If you need to see a future route, the start point can be replaced with any other given point.

Track-up map orientation

In Track-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.

Vehimarker

The current position is shown with a blue arrow on the map by default. The direction of the blue arrow shows the current heading.

8 Copyright notes

The product and the information contained herein are subject to change without prior notification.

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