INFOTAINMENT CENTER
Owner's Manual

Before using this product, please read this manual fully to ensure correct operation.
Keep the manual at hand for future reference.

THIS IS A DISCLAIMER OF LIABILITY AND DAMAGE RESPONSIBILITY AS REGARDS TO THE INFOTAINMENT CENTER MANUFACTURER AND YOUR USE OF THE PRODUCT.

YOU ASSUME TOTAL RESPONSIBILITY AND RISK FOR USING THIS SYSTEM.

Failure to properly focus on the operation of your motor vehicle can result in death, serious injury and property damage. The Infotainment Center should never be used at a time or in a manner that distracts you from properly focusing on operation of the motor vehicle in which it is installed.

Always operate the vehicle in a safe manner and in full compliance with speed limits, road safety signs and all other laws and devices which regulate operation of a motor vehicle.

Always remain aware of driving conditions at all times when using this system while operating a motor vehicle.

Operation of this unit, including its camera, navigation, audio and other features, can be distracting to your operation of the motor vehicle. While the system is intended to provide both entertainment and helpful vehicle and navigation information, it is not intended to, nor should you allow it to, distract you from properly focusing on operating the motor vehicle in which it is installed. It is up to you to minimize or prevent such distraction.

Learn how to use this system before placing the vehicle in operation. Minimize the amount of time spent viewing the screen of the unit while driving and use voice prompts whenever possible. Do not attempt to adjust settings of the system or resolve any malfunction with it while driving. Instead, pull off the road in a safe and legal manner, and then adjust its settings or deal with any malfunction.

In the event of serious malfunction, disable the unit (turn power off or remove power from the system) and contact a qualified service personnel.

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.

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

If your Infotainment Center includes optional navigation features please refer to your navigation user manual for further specific information regarding its features, warnings, instructions and disclaimers.

IMPORTANT SAFETY INFORMATION

Safety Information

Read the operating instructions for the Infotainment Center and all other components of the system carefully before using the system. **FAILURE TO OBSERVE THE INSTRUCTIONS GIVEN IN THIS MANUAL MAY CAUSE INJURY OR DAMAGE AND VOID THE WARRANTY**.

Warnings

Observe the following warnings when using this unit:

- **The driver should neither watch the display nor operate the system while driving.**
  Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system. While navigating please use voice prompts.
- **Use the proper power supply.**
  This product is designed for operation with a negative grounded 12 V DC battery system.
  Never operate this product with other battery systems, especially not with a 24 V DC battery system.
- **Protect the DVD loader mechanism.**
  Do not insert any foreign objects into the slot of this unit. Only insert appropriate CD or DVD products.
- **Do not disassemble or modify the unit.**
  Do not disassemble or modify the unit, or attempt to repair the product yourself. This may cause serious injury or damage and your warranty will be null and void. If the product needs repair, consult your dealer or contact technical support (see page 5).
- **Do not use the unit when it is out of order.**
  If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.
- **Refer installation to qualified personnel.**

USA-Federal Communications Commission (FCC)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: THIS DVD VIDEO RECORDER IS A CLASS 1 LASER PRODUCT. USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR THE PLAYER YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION: FOLLOW THE LAWS AND REGULATIONS OF YOUR STATE, PROVINCE OR COUNTRY FOR INSTALLATION.

Notes on Use: Video Sources and On-Screen Display

- Your Infotainment Center is designed to only display video when the parking brake is fully engaged.
- Never attempt to circumvent, defeat or bypass any of these safety features. These designs are intended to reduce driver distractions.
- Failure to use the safety features as designed could lead to serious injury, death and property damages. Your manufacturer and partners will not be liable for any injury or loss.

Notes on Use: Liquid Crystal Panel

- Do not cause impact to the liquid crystal panel. Only use your finger to gently touch the LCD panel.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from LCD contacts your body or clothing, wash it off with soap immediately.
- When the temperature is very cold or very hot, the image may appear unclear or may move slowly.
- In order to protect the liquid crystal panel, keep it out of direct sunlight while the unit is not in use.
- Sudden changes in the temperature inside the vehicle such as those which occur immediately after the vehicle's air conditioner or heater has been turned on may cause condensation (droplets of water) to form and, as a result, the panel may not work properly. Do not use the unit while these symptoms are in evidence but leave the unit standing for about an hour and then resume or start use.
- To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth or volatile solvents such as paint thinner and alcohol.

Customer Feedback

Your Infotainment Center has been designed specifically for use in Recreational Vehicles. This system has been designed to offer a rich and intuitive feature set that is simple to use and even easier to enjoy. We have engineered this system based off input from real RV'ers like you!

We want your feedback. Do you have comments on your Infotainment Center? Questions about operating the system, suggestions or concerns? Send us a note or talk to one of our Infotainment Specialists and give us your comments. You can find our contact information at the bottom of this page.

Product Registration

Please take a moment to fill out your Infotainment Center Registration Card and mail it to the address provided on it or contact us by phone or email at the address below.

By registering your product you will be kept up to date on any enhancements to the Infotainment Center. It will also help us expedite any service or support needs you may have.

River Park Inc.
21953 Protecta Drive
Elkhart, IN 46516
1-800-442-7717
www.riverparkinc.com

For Technical and Warranty questions please contact our Technical Department at the number above or email us at navi@riverparkinc.com

Contents

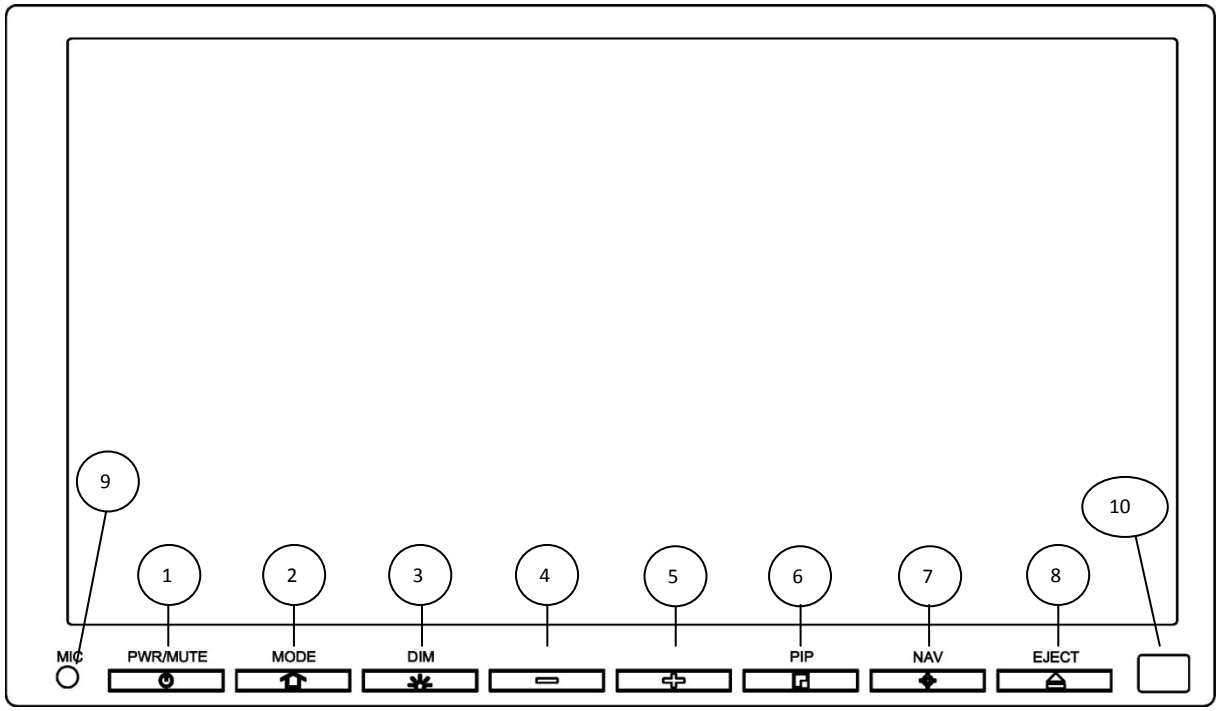
1 Features

- Motorized 6.95” Touch Screen LCD Display
- Picture in Picture (PIP) Display
- GPS Navigation (Optional)
- SIRIUS Satellite Radio Ready
- AM/FM/RDS Stereo Radio
- iPod/iPhone Interface and Control[1]
- DVD R/RW, CD R/RW, VCD Compatible
- MP3, WMA, MPEG Audio/Video File Compatible
- Bluetooth Hands-Free Calling and Streaming Audio Player (A2DP)[2]
- Rearview Camera Connectivity[3]
- Auxiliary Monitor Support[4]
- USB Input
- ESP-Electronic Shock Protection for DVD, MP3, CD
- High Power MOSFET Speaker Output 4 X 50W
- Steering Wheel Control Compatible
- Premium Remote Control (Optional Accessory)

[1] *iPod/iPhone device not included*
[2] *Compatible mobile phone required*
[3] *Will connect to vehicle camera system composite video/audio output*
[4] *Auxiliary monitor sold separately*

2 Main Unit Display

The buttons located on the Infotainment Center front display are assigned the same reference here below.



Main unit buttons

1	PWR (Power On/Off) or MUTE	6	PIP (Picture in Picture)
2	Mode (Main Menu)	7	Navigation
3	DIM	8	Eject
4	Volume Down	9	Bluetooth Microphone
5	Volume Up	10	IR Receiver

POWER

1. Turn on the ignition to power up the Infotainment Center. The buttons on the front of the unit light up. When the Infotainment Center is started up, it will immediately go to the last mode (memory on playback) before it was turned off.
2. In order to put the unit in standby mode, please press the Power button (PWR) for more than 2 seconds. During standby, the display will show your vehicle graphic or be off. Your preference can be set in the Settings menu (See page 10). Press the Power button again to start up again.
3. In order to turn the unit off completely remove ignition key and/or ensure any auxiliary battery power to the system is turned off.
4. Quickly pressing the Power button will mute the audio on your system. Press again or a volume button to resume audio.

MODE

1. Touch the Mode button to go to the Main Menu.
2. When in the Main Menu, use the touch screen to select the desired functionality.
3. You can also access the Main Menu from any screen by touching the function icon in the top left of the current screen.
   NOTE: When viewing video in full screen please touch the screen once to bring up the screen header which will display the function icon. Touch the icon to return to the Main Menu.

DIM

1. Press to manually adjust the brightness of the LCD.

-/+ VOLUME CONTROL

1. The volume level can be adjusted on the front of the Infotainment Center display by using the volume up and volume down buttons or by the steering wheel control buttons (optional).
2. The volume level can be muted completely by briefly pressing the PWR button on the front of the Infotainment Center. The MUTE logo will appear the display.

PIP (Picture in Picture)

1. Your Infotainment Center is equipped with PIP. This button will toggle between PIP and full screen of the active source (see page 11 for more details on this feature).

NAV

1. Press the NAV button to go to the navigation system.
2. While viewing your navigation press the NAV button to return to your active source. If you are running a navigational route, voice audio voice prompts will continue to be heard over your speakers according to the NAV audio settings you have selected in the settings menu (see page 10).

EJECT

1. By pushing the EJECT button, the LCD display will move to its lowest position. When a CD/DVD is in the player, it will be ejected automatically. When the display is in the lowest position, a CD/DVD can be inserted. Please note that the display will automatically go up again after a series of beep tones unless beep tone has been turned off (see page 11).

Main Menu

The Infotainment Center is designed for simple maneuvering throughout. The screen shown on the right is the **MAIN MENU** screen. From here you can choose which function to access by touching the appropriate icon on the LCD display. To return back to the Main Menu or change the active source touch the icon in the top left corner of any screen.
If the device is left idle on the Main Menu or on any system settings screen the video will revert back to the active source (radio, etc.) after 15 seconds.

3 Setup

3.1 General Settings

Access the System Settings by using the **Settings** icon in the Main Menu. The first screen shown is the first page of the system setup. The pages of the Settings menu can be changed by using the on-screen button in the top right corner. To exit the Settings menu at any time, press the Settings icon in the top left of the screen.

System Settings page one (1/2):

Tilt Position: This option allows the manual control of the tilt mechanism behind the LCD screen. Here you can set the angle of the LCD display.
Tilt Movement: The LCD panel will close during power down and return to its set position if Auto is selected.
AUX Zone: This option selects the AV source for a display connected to the AV output. The following sources can be selected: Current/DVD/CAM/NAV/AUX/OFF. Audio only sources of Radio/SIRIUS/iPod may be selected. Control of most functions must be done from the main screen.
AUX Zone Vol: Independent volume controls
Language: Here the language of the User Interface can be selected (English, Spanish, French).
Beep Tone: Turn ON/OFF audible sound when touching the LCD screen. The Beep Tone will also provide warning of LCD display closing.

System Settings page two (2/2):

Rear View: This option selects whether a rear view camera is connected. When ON the display will automatically switch to camera mode when the reverse gear is engaged or a trigger signal is received. When no camera is connected, select OFF.

NOTE: Please use all available safety features and procedures to ensure proper driving to avoid damage and/or injury.

Standby Screen: Selecting ON, the Infotainment Center will display your clock when the unit is powered off by pressing the PWR button while the vehicle remains on.
Auto Dim: Set to Auto, LCD will dim with your vehicle lighting, if equipped.
Touch Adjustment: This option allows the user to calibrate the touch screen accuracy. Follow the on-screen directions step by step to complete the procedure. This procedure is only necessary when the accuracy of the touch screen is not good.
Time Set: This option allows setting the time in the system displays.
Factory Set: With this option, the Infotainment Center can be reset to factory default.
Note: All stored settings, presets, SIRIUS lock code, etc., will be erased and return to original factory settings. Locked/Skipped channels in SIRIUS will remain unchanged.
Note: Loss of power due to battery disconnect will cause a factory reset to automatically be performed during the next start up of the Infotainment Center.

3.2 Video Setup

By touching the VIDEO button, the settings for the video part of the Infotainment Center can be changed.

Video Settings page one (1/1):

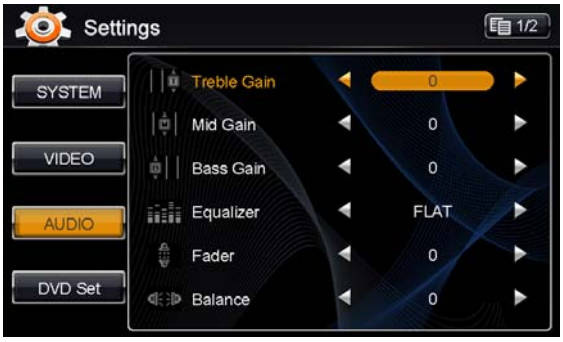
Brightness: Sets the brightness level (-10 – +10).
Contrast: Sets the contrast level (-10 – +10).
Tint: Sets the tint level (-10 – +10).
Color: Sets the color level (-10 – +10).
Sharpness: Sets the sharpness level (-10 – +10)
PIP: This option lets you choose your video display when in PIP (Picture in Picture) mode. Left side ALWAYS displays your navigation. The right side of the screen allows you to choose either: ACTIVE SOURCE (radio, etc), CAMERA (audio will still be from active source), or AUX source.

Note: The Infotainment Center has a factory default for optimal LCD settings, however the level can be adjusted to set the display according to individual taste.

3.3 Audio Setup

By touching the AUDIO button, the settings for the Audio part of the Infotainment Center can be changed.

Audio Settings page one (1/2):



Treble: Sets the treble level (-10 – +10).
Mid: Sets the mid level (-10 – +10).
Bass: Sets the bass level (-10 – +10).
Equalizer: Here a selection can be made for the equalizer to fit a music style. The following options are available:

- ROCK
- CLASSIC
- POP
- LIVE
- JAZZ
- FLAT (normal level)

Fader: Sets the fader level between front and rear (F10 – R10). 0 is the center level.
Balance: Sets the balance level between left and right (L10 – R10). 0 is the center level.

Audio Settings page two (2/2):

Center Volume: Sets the volume level for an optional center speaker when connected (MUTE – MAX).
Woofer Volume: Sets the volume level for a an optional subwoofer speaker when connected (MUTE – MAX).
NAV Volume: Sets the gain of navigation volume (-10 - +10). This feature will help balance the navigation audio prompts with the system volume level according to the individual user preference.
NAV Audio Mix: This option allows setting the way of navigation voice behavior in relation to the normal audio playback. The following options are available:

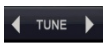
1. **OFF**: Navigation voice will not be audible.
2. **MIX**: Navigation voice will mix through normal audio.
3. **FULL**: Normal audio will be muted on the front speakers during navigation voice instructions.

4 Radio Operation

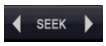
Radio mode can be selected from the Main Menu by pressing the **Radio** icon on the LCD display. The Radio mode can be left at any time by pressing the Radio icon at the top left of the Radio screen.

The radio interface contains several buttons that all have their specific purpose. Below is an explanation of each button and its functionality.

This button allows the selection between the FM and AM bands. There are 3 FM and 2 AM ranges available, all with 6 available presets.



This button allows fine tuning or manual searching for radio stations.

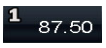


This button starts automatic searching for the next radio station.

A/S means Auto Store and will store received stations in the memory. Six stations will be stored per radio band.

P/S means Program Scan and will go through all the frequencies stored in the memory and pauses for 10 seconds. To stay at a specific station, press the Seek button.

DX is the default mode. When LO is selected, the sensitivity of the radio receiver is reduced so that only the strongest signals are found when searching. Press the button to switch between DX and LO.



These six buttons can be used to switch to a radio station in the memory by touching it once or storing a station by holding it for 2 seconds.

AF means Alternative Frequencies. When this function is activated, the radio will search for other frequencies on which the same station is present to offer the best reception. The AF button will blink when activated.

PTY means Program Type. Some radio stations broadcast their program type. When the PTY button is pressed, use the TUNE and SEEK buttons to select the program type to search and listen to.

POP M	ROCK M	EASY M	LIGHT M	CLASSICS	OTHER M
JAZZ	COUNTRY	NATION M	OLDIES	FOLK M	NEWS
AFFAIRS	INFO	SPORT	EDUCATE	DRAMA	CULTURE
SCIENCE	VARIED	WEATHER	FINANCE	CHILDREN	SOCIAL
RELIGION	PHONE IN	TRAVEL	LEISURE	DOCUMENT	

TA means Traffic Announcement and will interrupt any audio source when a traffic announcement message is relayed from a radio station supporting this functionality. When the volume is set lower then 10, a TA message will automatically raise the volume to 10.

REG means Regional and this functionality will support the AF functionality by searching for local broadcasts to improve reception of local radio stations.

Note: The reception and audio quality is highly dependent on the strength of the incoming signal from the radio broadcasting. When experiencing difficulties with getting a good reception, moving the vehicle to a different location can improve the audio reception. When problems persist, please contact your dealer for a solution.

5 CD Player Operation

CD/DVD mode can be selected from the Main Menu by pressing the **DVD** icon on the LCD display. The CD/DVD mode can be left at any time by pressing the Disc icon at the top left of the CD/DVD screen.

Disc Insert/Eject

1. Press the EJECT button below the LCD display to get access to the CD/DVD player behind the LCD display.
2. Place the CD (label side up) into the CD/DVD slot. Push the disc in gently until the loader inserts the disc itself.
3. After inserting the disc, playback will start automatically and the CD mode's playback is shown on the display.

Functions

 This button can be used to pause or start playing a track from the CD.

 This button is used to stop playback. Press it once to pre-stop (resume when play is pressed again) and press twice to stop completely.

 Press once to skip to previous track. Press and hold to reverse within a track.

 Press once to skip to next track. Press and hold to fast forward within a track.

 This button can be used to set how the CD player should play back the available tracks. The available options are RPT ALL (normal playback), RPT 1 (repeat one track) or RPT OFF.

 This is the random option that will allow random playback of the available tracks. Press this button once to enable random playback, press again to return to normal playback.

 Pressing the magnifying glass will bring up a keypad where the user can directly enter the track number to listen to.

The track list displayed on the right side can be used to navigate through the available tracks on the CD. By using the arrows next to the list, you can scroll through all the tracks on the CD. By pressing a track on the LCD screen, playback of the selected track will start.

6 USB - MP3/WMA/MP4 Player Operation

USB mode can be selected from the Main Menu by pressing the **USB** icon on the LCD display. The USB mode can be left at any time by pressing the USB icon at the top left of the USB screen. To access and use the USB feature please connect your USB compatible device (USB stick, HD, etc.) first to the USB cable provided.

The MP3/WMA/MP4 files can be accessed from USB memory or from a CD/DVD disc.

The functions of play, pause, stop, track selection, fast forward, fast reverse, repeat play, random play, etc. are the same for MP3/WMA/MP4 and CD operation. Please see the CD player operation section for information about these functions (page 13). When a CD/DVD is inserted, the playback will start automatically. When a USB memory device is connected, the playback has to be manually started by selecting the appropriate mode in the Main Menu.

In the MP3/WMA mode the following additional functionalities are available:

Track list: The track list supports the possibility to browse through all the available data and folders. Press stop first and the arrows next to the track list will become available to browse through the data.

This is the icon for a folder. When a folder is selected, the track list will show the content of the selected folder. In the top of the track list the folder icon can be used to leave the current folder and return to the root.

This is the icon for a JPEG image. The Infotainment Center also has the ability to show JPEG images (please see safety instructions). When a JPEG is selected, a slideshow will automatically be created of all the available images within a folder.

This is the icon for a MP3 file. When a file is selected from the track list, the playback of this file will be started automatically.

This is the icon for a WMA file. When a file is selected from the track list, the playback of this file will be started automatically.

This is the icon for Movie files. When a movie file is selected, the playback will start automatically (please see safety instructions).

Note: If a file cannot be found by the Infotainment Center, please make sure that the extensions of your files are correct. For images, the only accepted format is JPEG. For music files, both MP3 and WMA files are compatible. The Infotainment Center does support the playback of MP4 movie files (with AVI extension). The compatibility and performance of the playback is highly dependent on the specifications of the source file.

7 DVD/VCD Player Operation

(Please refer to the safety instructions in regard to video playback on page 3)

CD/DVD mode can be selected from the Main Menu by pressing the **DVD** icon on the LCD display. The CD/DVD mode can be left at any time by pressing the Disc icon at the top left of the CD/DVD screen.

Disc Insert/Eject

1. Press the EJECT button below the LCD Display to get access to the CD/DVD player behind the LCD Display.
2. Place the DVD (label side up) into the CD/DVD slot. Push the disc in gently until the loader inserts the disc itself.
3. After inserting the disc, playback will start automatically and the DVD mode's playback is shown on the display.

While a DVD is playing full screen, press the display once to see the DVD control interface. The control interface allows all the settings for DVD playback. On the bottom all normal functions are available (as with CD player operation) with the added MENU, Audio, Sub Titles, Angle and Chapter Search buttons.

DVD Audio track selection can be made by pressing this icon and cycling through the audio tracks available on the DVD. *Note: when a DTS audio track is selected, no audio will be available.*

Some DVD's support multiple angle views. Pressing this icon will switch between each available angle.

DVD's will allow several subtitles to be blended into the video file. Press this icon to select subtitle.

Press to go to the DVD Main Menu

Press for Chapter Search. A keypad will be visible on the left side of the LCD screen. Enter the chapter number to jump to.

Note: The options for these functions are dependent on the contents of the DVD.

7.1 DVD System Settings

To access the DVD Settings in the System Settings Menu from the DVD Screen:

1. Touch the DVD icon in the top left corner of the screen to return to the Main Menu.
   a. If you are watching a video full screen please touch the screen once to bring up the Icon header then perform step 1 above.
2. Select Settings icon.
3. Select DVD Set on left side.

DVD Settings page one (1/2):

Audio Language: This option sets the default audio language the DVD should start in (when available on the DVD).
Menu Language: Choose the language for menu display.
Subtitle Language: This option sets the default subtitle language the DVD should start in (when available on the DVD).
DVD Aspect: The following options are available: Pan Scan–- Wide – Letterbox.
Video System: The following options are available: NTSC – PAL – AUTO.
DRC: This option turns the Dynamic Range Control ON or OFF.

DVD Settings page two (2/2):

Sound Mode: Here a selection can be made to set up the speaker system connected. When a full 5.1 system is connected, the sound mode can be set to 6CH. When a normal audio system is connected, 2CH has to be selected.

Speaker Set Up (available when 6CH is selected):
Front Speaker: Select the type of front speakers that are connected: Large– Small
Rear Speaker: Select the type of rear speakers that are connected: Large – Small – Off
Center Speaker: Select the type of center speaker that is connected: Large – Small – Off
Woofer Speaker: Select the type of front speakers that are connected: Large – Off

Note: When Large is selected, the speakers will receive the full frequency spectrum. When Small is selected, the speakers will only receive the mid and high frequency.

Speaker Test: This will test all the connected speakers independently. When this test is performed, the display will show the current speaker tested and the speaker itself will sound a testing tone to confirm.

8 Bluetooth Operation

Bluetooth mode can be selected from the Main Menu by pressing the **Bluetooth** icon on the LCD display. The Bluetooth mode can be left at any time by pressing the Bluetooth icon at the top left of the Bluetooth screen.

The Infotainment Center supports Bluetooth wireless connections. It can set up a wireless link with a Bluetooth mobile phone. The unit supports a hands-free profile and A2DP (Audio Advanced Distribution Profile).
Before using the Bluetooth functionality, please make sure your mobile phone is equipped with Bluetooth and turn it on in your phone menu. Please check your mobile phone user manual for instructions using Bluetooth.

8.1 Bluetooth Setup

To access the Bluetooth Setup, select the Bluetooth icon from the Main Menu and press  found in the bottom left corner of the Bluetooth Screen.

Bluetooth Settings page one (1/1):

Connecting Role: This is the profile setting for the connection role between the Infotainment Center and the mobile phone.

- ***HF/HS***: Connecting Hands-Free or Headset (Default setting)
- ***AV***: Connecting for only playing audio files from the mobile phone
- ***HF/HS + AV***: connecting both HF/HS and AV

Auto Connect: This enables the Infotainment Center to search and connect with any paired mobile phones after power up. You will see the  icon flashing in the top right hand corner while searching for devices when enabled.

Auto Reception: This sets the automatic incoming call answering.

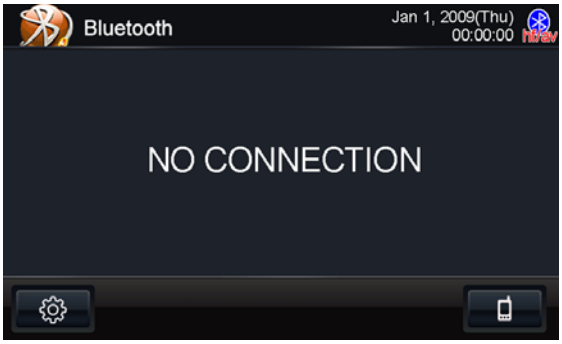
Bluetooth Gain: Setting the volume level of Bluetooth operation (-10 – +10).

MIC Gain: Setting the sensitivity level of the microphone (1–8).

PIN Code: Customizable PIN code for mobile phone connection.

8.2 Pairing your Phone

To pair your compatible mobile phone to the Infotainment Center please have your user manual for your mobile phone and follow the instructions below:



1. Go to the Bluetooth screen by selecting the Bluetooth icon from the Main Menu.
2. When Bluetooth is accessed for the first time, it will show NO CONNECTION on the screen. Touch  to access the device list.
3. Touch  to start pairing mode.
4. Follow the pairing instructions for your mobile phone.
5. If completed successfully your phone will be shown in the device list.
6. If your mobile phone supports phonebook transfer, touch  . If the system does not automatically begin transfer please see your mobile phone user manual for further instructions.

The phones are shown by their unique addresses and if the phone supports it, the mobile phone's name.

Notes on Pairing:

1. If **PAIR START** appears temporarily, the pairing cannot start due to an active connection. Please disconnect any active mobile phones.

2. Only when **PAIRING** is displayed, the Infotainment Center becomes visible for mobile phones. Use your mobile phone to search for the Infotainment Center to connect to your mobile phone.

3. When connecting, the Infotainment Center will identify itself to your phone as "XSG2". The mobile phone will ask for a PIN code. The factory default code is "**0 0 0 0"** (this code can be changed, see Bluetooth settings). Once the mobile phone confirms that it has established a new paired connection, authorize the Infotainment Center to make an automatic connecting.

4. When the pairing procedure is completed successfully, the display will show **PAIR OK**. When **PAIR FAIL** appears on the display, repeat the pairing procedure.

5. Once the Bluetooth pairing is completed between your mobile phone and the Infotainment Center, both will be automatically recognized and the connection can be made automatically from that moment on.

6. If there are more mobile phones paired to the Infotainment Center and within range, the connecting priority is given to the last paired mobile phone.

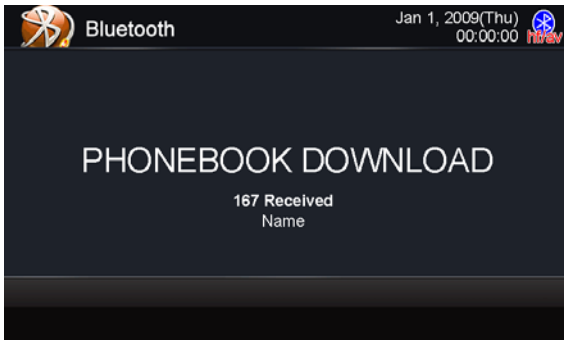
7. In case that pairing fails after each attempt, please turn off both your mobile phone and the Infotainment Center. Turn both on again and repeat the procedure as above.

Notes on Phonebook Feature:

1. Phonebook function is matched with OPP (Object Push Profile) in user's mobile phone.

2. To update changes to the phonebook of a paired mobile phone, you must perform the phonebook download step again.

3. The contents in incoming call list, outgoing call list, and missed call list will be only call lists when system and mobile phone are paired.



4. Number of paired devices: max. 4 sets

5. Number of phonebook lists: names - max. 500, phone numbers - max. 1900

6. Incoming call list, outgoing call list, missed call list: max. 20 numbers per category

7. Letters of name: max. 26 letters (English)

8. Length of numbers: max. 20 numbers

Note: Performance of Bluetooth is highly dependent on the capabilities of the mobile phone in use.
To maintain good connectivity ensure that your mobile phone's battery is adequately charged.

8.3 Incoming Calls

While the mobile phone is connected, incoming calls will be handled by the Infotainment Center. When an incoming call is present, the LCD display will switch to Bluetooth mode and show the phone number (when available) from the person calling. Under the phone number, the buttons Accept and Reject are present.

Press to accept the call. The Infotainment Center will accept the call and give the call audio over the normal car speakers.

Press to reject the call. The Infotainment Center will close the connection and return to the previous operation. (Some phones may not support the reject mode.)

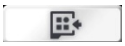
When a call is ended, the Infotainment Center will switch back to its last mode. This will be done automatically after 5 seconds or can be done manually by pressing the NOW button. If CANCEL is pressed, the Bluetooth mode will remain active.

8.4 Outgoing Calls

Direct Dialing

To place an outgoing call, the screen will show a numeric pad where the phone number can be entered manually.

Press the Backspace button if you have made a dialing error



Press the Redial button to redial the last number called with the mobile phone.

Voice Dialing

When the mobile phone also supports voice dialing, a Voice Dial button will also be available. The Infotainment Center will display Voice Dial on the screen and await a voice command when pressed.

Note: The Voice Dial functionality is highly dependent on the connected mobile phone. Please read the mobile phone's user manual for instructions.

Phonebook Dialing

Calls can be made by accessing your downloaded phonebook.

1. Press  to access your Phonebook.
2. Press the contact name on the right you wish to call.
3. Press the number you wish to call.
4. Press the green phone icon.

Note: Outgoing calls can also be made on the mobile phone itself. The Infotainment Center will still take over the outgoing call and switch to hands-free mode.

8.5 AV (A2DP Audio Playback over Bluetooth)

Some mobile phones also support the functionality of A2DP (Audio transfer protocol). The Infotainment Center uses this protocol to find audio files on the mobile phone and play the audio over the normal speakers.

Press AV in the standard Bluetooth screen. The screen will change to a normal playback screen with the standard functionality:

- play or pause
- stop
- previous track
- next track

Note: The A2DP functionality is highly dependent on the mobile phone used. For information on this protocol and its functions, please read the user manual of the mobile phone.

9 SIRIUS Satellite Radio

The Infotainment Center is compatible with an optional SIRIUS Satellite Radio Direct Connect device (please see your dealer for compatible devices). When a SIRIUS receiver is connected, press the SIRIUS icon in the main menu. The SIRIUS mode can be left any time by pressing the **SIRIUS** icon at the top left of the screen.

This section describes the features and functions of the SIRIUS Satellite Radio system. Before using the optional SIRIUS Satellite radio, you need to subscribe to the SIRIUS service either by phone or via the Internet (see Subscribing to SIRIUS Satellite Radio).

9.1 Subscribing to SIRIUS Satellite Radio

By phone: 1-888-539-7474.
By the Internet: http://www.sirius.com
Before activating your service, first:

1. Make sure your SIRIUS tuner is installed with the antenna facing skyward.
2. Tune to “Category – ALL” and to “Channel 184”.

Also have on-hand:

1. The System Identification number (SID) from your SIRIUS receiver. This number is located on the SIRIUS receiver. It can also be obtained from the **INFO** screen (Press **INFO** again to return to previously tuned channel) on the SIRIUS page or tuning to channel 000.
2. A major credit card.

9.2 Operating SIRIUS Satellite Radio

Press once to tune to the next/previous channel. Press and hold to rapid tune.

Press to go to the next channel category.

The Infotainment Center will store up to 18 preset stations of your choice. Press to go to the next series of preset channels (3 Bands X 6 Presets).

Press to display All Channel Mode or Category Search on channel list which is found on right side of screen. Category Search allows you to directly select a Category to enter by selecting it from the list.

Press to display SID and other SIRIUS system information. Press again to return display to channel list.

Press to bring up keypad to allow for Direct Channel Tuning.

1. Enter the channel number and press ↵

These buttons allow direct tuning to your favorite stored channels.

1. Press a preset button quickly to tune to a stored channel.
2. Press and hold a preset button for 2 seconds to store a new channel preset.

LOCK Channels can be locked to restrict access to certain channels.

To lock a channel:

1. Tune to the channel you wish to lock.
2. Press Lock to bring up keypad.
3. Enter a lock code. The first time you use the lock feature you can enter any 4 digits you choose to have as your lock code. You will need to remember this code every time you use the lock feature.
4. Press ↵
5. Tune to another channel.
6. Channel is now locked and removed from all channel lists.

To tune to a locked channel:

1. Direct tune to the specific locked channel.
2. Enter the lock code in the on screen keypad.
3. You can now listen to the locked channel. This Channel still remains locked. You will need to enter the lock code again if you return to it from another channel or on vehicle start up if this was the last channel selected for listening prior to turning off the Infotainment Center.

To unlock a locked channel:

1. Perform above actions to tune to a locked channel.
2. Press LOCK button.
3. Re-enter the lock code.
4. Channel is now unlocked.

SKIP Channels can be removed from the Channel List without locking by using the SKIP feature.

To Skip a channel:

1. Press SKIP when tuned to the specific channel.
2. Channel now has an “S” to the right of its name. While channel tuning, the system will skip over this channel. This skipped channel can only be accessed by direct tuning or selecting it by touching the LCD display.

To remove a skip command from a channel:

1. Direct tune to the skipped channel.
2. Press SKIP.
3. Channel is now returned to all channel lists and the “S” is now removed.

To see the complete channel list including all lock/skipped channels press and hold the LOCK button for 3 seconds. You will now see an “L” to the right of any locked channels as well as an “S” for skipped. You can use this list to select channels as you would normally.
Press and hold again to return to the normal channel lists.

To Reset all Lock/Skip Channels:

1. From the SIRIUS Satellite Radio screen press the Sirius logo in the top left hand corner to return to the main menu.
2. Select Setup.
3. Select the SIRIUS button bottom left.
4. Press reset.
5. You will need to confirm this action by selecting “reset” again.

Note: If you have forgotten your lock code you will need to perform a factory reset to reset the code. Please see page 11 System Settings. The status of any Channels currently locked or skipped will not be changed by the performing of the factory reset.

10 iPod and iPhone AV Interface

The Infotainment Center can also be connected to your Apple iPod or iPhone. When the iPod is connected, press the **iPod** icon in the Main Menu. The iPod mode can be left any time by pressing the iPod icon at the top left of the screen. To access and use the iPod feature please connect your iPod/iPhone device first to the iPod cable provided.

FUNCTIONS

Play or pause current playback.

MENU Change the track list to find tracks based on categories. The following categories are available: Track, Playlist, Composer, Artist, Audio Book, Album, Podcast, Genre.

Go to previous track. Press and hold to fast rewind current track.

Go to next track. Press and hold to fast forward current track.

Off/Single Track/All Track repeat functions.

Off/Track/Album random playback order.

Access to all stored iPod video.

Note: iPod video playback requires optional iPod video cable. Please contact your dealer to inquire.

When a Podcaster or Audiobook has 2 or more chapters available, clicking the fast rewind or fast forward button during pause moves the current location to the beginning of the previous or next chapter. Hold the fast rewind or fast forward longer than 2 seconds to fast rewind or fast forward.

Note: All the functions are dependent on the version of iPod used.

11 Camera (Optional)

The Infotainment Center can be connected to an optional rearview camera or camera control box (for multiple cameras) to enhance viewing around your vehicle while performing maneuvers. When connected, the camera AV source can be displayed in two ways:

Manual Viewing:
By selecting the **Camera** icon from the Main Menu you can have full screen display of your rear camera. You can also manually view your rear camera and navigation simultaneously using the Picture in Picture (PIP) feature. (Please see page 11, Video Settings for more details)

Automatic Viewing:
The Infotainment Center can support automatic triggers to display cameras to assist you with reverse driving and side blind spot viewing. While driving, if a turn signal or reverse gear signal is seen by the system the display will change to full screen camera view, even from PIP function. If your rear camera is equipped with audio, you can press the Audio icon on the LCD display while the camera video is displayed to change the audio from the active source to the camera audio.

To turn off the camera audio press the icon again. Camera audio will also switch off once the trigger signal has ended and the Infotainment Center has returned to the active source.

Note: These features are for assistance only and are not intended to replace the use of mirrors and help from spotters. It is only a reference for you. Please use all available safety features and procedures to ensure proper driving to avoid serious injury/death and damage to property.

12 Navigation (Optional)

The Infotainment Center is capable of providing navigation. If you have purchased this option please see your Navigation Program User Manual for instructions on using the navigation software.

Your optional Navigation Program is stored on an SD card. This card is entered into the SD card slot found on the bottom of the LCD display housing. Press the Eject button to lower the screen. Here you will see the SD card slot.

If you have purchased your navigation SD Card please do not misplace it. This card also contains a unique license and registration required to operate your navigation. You will need to purchase another license and SD card if you lose it.

Do not attempt to put any other SD cards or objects into the SD card slot. This may cause a malfunction of your Infotainment Center and will void all warranties.

To access the navigation please select the **NAV** icon from the Main Menu or press the NAV button on the front bezel. To exit navigation press the NAV button again.

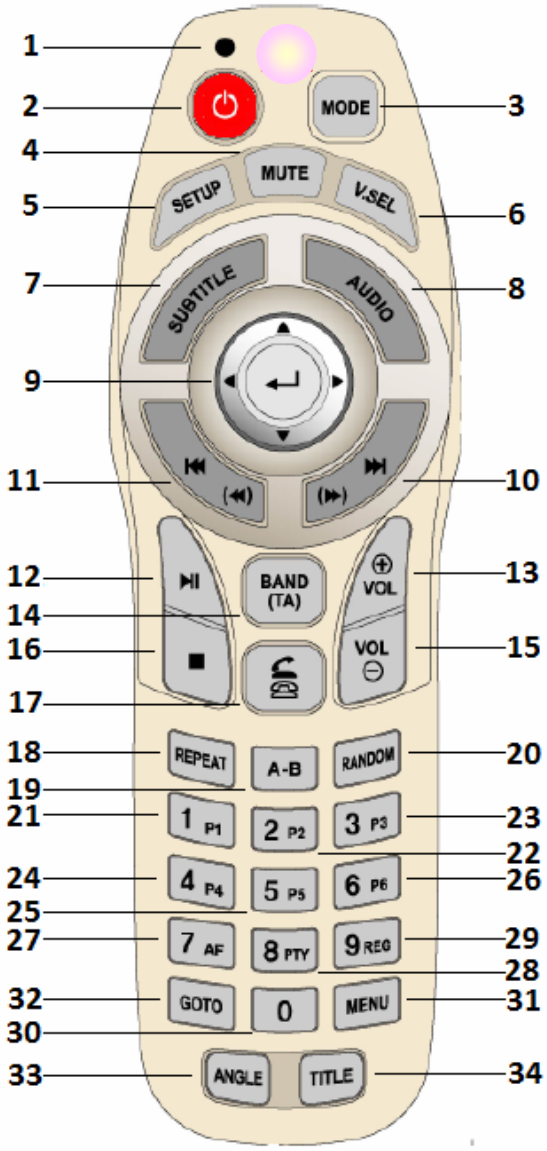
If you are using the Premium Remote Control accessory to operate your navigation please ensure that the Navigation is the current display (full screen) on the Infotainment Center. This is required even if the auxiliary monitor currently displays navigation as well.

NOTE: If there is an active navigation route running and you exit the navigation by pressing the NAV button, audio guidance will still be given.

13 Premium Remote Control Accessory (Optional)

The Infotainment Center is compatible with the Premium Remote Control accessory.

No.	Main
1	Activity LED
2	Power
3	Mode
4	Mute
5	Setup
6	V.Sel/Nav
7	Subtitle (DVD)
8	Audio (DVD)
9	Joystick Control
10	Next (hold for fast forward)
11	Previous (hold for rewind)
12	Play/Pause
13	Volume Up
14	Radio/SIRIUS Band (hold for TA function)
15	Volume Down
16	Stop
17	Pick up/Hang up/Redial (BT)
18	Repeat
19	A-B repeat
20	Random
21	Numeric 1 (Preset 1)
22	Numeric 2 (Preset 2)
23	Numeric 3 (Preset 3)
24	Numeric 4 (Preset 4)
25	Numeric 5 (Preset 5)
26	Numeric 6 (Preset 6)
27	Numeric 7 (Radio AF)
28	Numeric 8 (Radio PTY)
29	Numeric 9 (Radio REG)
30	Numeric 0
31	MENU
32	GO TO
33	Angle
34	Title



Note: The Premium Remote requires 2 AA batteries for use. Batteries not included.

To use the Premium Remote please reference the chart below view the functionality the remote will provide for each feature of your Infotainment Center. The remote will only control the current function on the main LCD display. **

System *(These functions are available with all features of the Infotainment Center)*

Key	Function	Description
2	Power	Turns Power ON/OFF to Infotainment Center
3	Mode	Return to Main Screen. Press repeatedly to cycle through options
4	Mute	Toggle Mute ON/OFF
5	Setup	Enter Setup Screens
6	V.Sel/NAV	Toggle Navigation Full Screen ON/OFF
13	Vol. up	System Volume Control
15	Vol. down	

SIRIUS

Key	Function	Description
9	Joystick control	UP/DOWN Search Channel Up/Down. LEFT/RIGHT Search Categories. Depress to select.
10	Next	Tune Channel Up/Down (hold for Rapid Tuning)
11	Previous	
14	Band	Go to next set of Preset Channels (3X6)
21	Numeric 1 (Preset 1)	Tune to saved Channel Preset
22	Numeric 2 (Preset 2)	Tune to saved Channel Preset
23	Numeric 3 (Preset 3)	Tune to saved Channel Preset
24	Numeric 4 (Preset 4)	Tune to saved Channel Preset
25	Numeric 5 (Preset 5)	Tune to saved Channel Preset
26	Numeric 6 (Preset 6)	Tune to saved Channel Preset
31	MENU	Press to see SIRIUS INFO
32	GO TO	Press to Direct Tune to a channel. Use Numeric keys to enter

iPod

Key	Function	Description
9	Joystick control	UP/DOWN Search Track list Up/Down. LEFT/RIGHT Track list page UP/DOWN . Depress to select.
10	Next (hold for fast forward)	Goto next Track
11	Previous (hold for rewind)	Goto previous Track
12	Play/Pause	Play/Pause track playback
16	Stop	Stop track playback
18	Repeat	Toggles repeat playback settings
20	Random	Toggles random playback settings
31	MENU	Go to iPod menu

Navigation

Key	Function	Description
9	Joystick Control	Pan Map
31	MENU	Main Menu
32	GO TO	Address search
33	Angle	Zoom In
34	Title	Zoom Out

Bluetooth

Key	Function	Description
10	Next	Skip to next
11	Previous	skip to previous
12	Play/Pause	Start/Pause playback
16	Stop	Stop Playback
17	Pick up/Hang up/Redial (BT)	Pick up/Hang up/Redial
21-30	Numeric	Dial phone numbers

Radio

Key	Function	Description
10	Next	Tune/ Hold for Seek
11	Previous	
14	Band	Go to next set of Preset Channels (3X6)
21-26	Numeric (Preset *)	Tune to saved Channel Preset 1-6
27	Numeric 7 (Radio AF)	Alternative Frequency ON/OFF
28	Numeric 8 (Radio PTY)	Activate Program Type Tuning
29	Numeric 9 (Radio REG)	Activate Regional Programming

USB/DVD/CD

Key	Function	Description
7	Subtitle (DVD)	Change Subtitle selection
8	Audio (DVD)	Change Audio track
9	Joystick control	DVD Menu navigation
10	Next (hold for fast forward)	Skip to next
11	Previous (hold for rewind)	skip to previous
12	Play/Pause	Start/Pause playback
16	Stop	Stop Playback
21-30	Numeric	Enter chapter number
31	MENU	Access DVD Menu
32	GO TO	Open chapter search keypad
33	Angle (DVD)	Change DVD angle
34	Title (DVD)	go to DVD Title menu

** Control of DVD Playback on the Auxiliary LCD Display is possible with the Premium Remote. Please change the switch position on the left side of the remote from Main to Aux. This will now control DVD features while viewing on an auxiliary display. Please remember to return the switch back to main when done.

This remote is IR. Please ensure there are no obstructions between the remote and the Infotainment Center. Please keep the front of the IR receiver cover clean.
Always point the remote directly to the front of Infotainment Center for best performance.

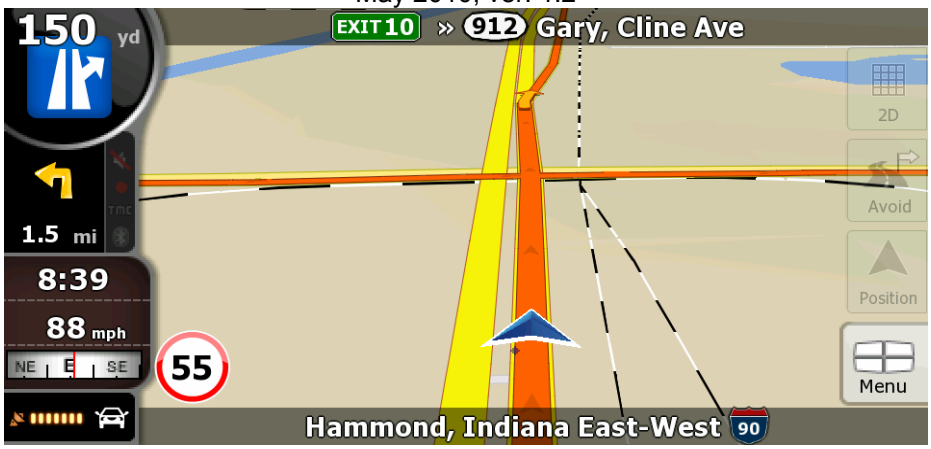
User Manual

XSG2 Infotainment Center

Navigation Software XSG2

English

May 2010, ver. 1.2



125G2NAVIMN01

Thank you for choosing the XSG2 as your door-to-door in-car navigator. Read the Quick Start Guide first and start using your XSG2 right away. This document is the detailed description of the software. Please do not operate your navigation while driving or allow it to dstract you. We recommend that you read this manual to understand the screens and the features of the XSG2 navigation.

For the latest in map updates please visit www.naivextras.com. If you have questions or require assistance please contact River Park Inc. at navi@riverparkinc.com.

Table of contents

1 Warnings and Safety information

XSG2 is a navigation system that helps you find your way to your destination with its built-in GPS receiver. XSG2 does not transmit your GPS position; others cannot track you.

It is important that you look at the display only when it is safe to do so. If you are the driver of the vehicle, we recommend that you operate XSG2 before you start your journey. Plan the route before your departure and stop if you need to change something in the route.

You must obey the traffic signs and follow the road geometry. If you deviate from the route that XSG2 recommended, XSG2 changes the instructions accordingly.

For more information, consult the End User License Agreement (page 56).

2 Getting started with XSG2

The XSG2 is optimized for in-vehicle use. You can use it easily by tapping the screen buttons and the map with your fingertips.

The XSG2 contains complete maps North America. The XSG2 can plan routes throughout the whole installed map set; you do not need to change maps or switch to a poorly detailed general map to navigate between map segments or countries.

Tasks	Instructions
Using a stylus	You do not need a stylus to use XSG2. Tap the buttons and the map with your fingertips.
Double tapping the screen	You do not need to tap the screen twice for any action. With buttons and controls, a single tap is enough.
Tapping and holding the screen	You do not need this to access the basic navigation functions. Tap and keep pressing the following buttons to reach extra functions: • Tap and hold  on the Map screen: you can set the minimum and maximum zoom level of Smart Zoom. • Tap and hold any of the  buttons on the Map screen: you can set or reset the zoom value of the button (2D map). • Tap and hold any of the  buttons on the Map screen: you can set or reset the tilt and zoom values of the button (3D map). • Tap and hold  on list and menu screens: the Navigation menu 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. • Tap and hold the buttons in the Quick menu to open screens related with the function of the button from the Manage menu or the Settings menu.
Gestures (drag&drop)	You do not need gestures to access the basic navigation features. You need to drag and drop the screen only in cases like: • Moving the handle on a slider. • Moving the map: grab the map, and move it in the desired direction. • Shortcut to open the Map screen: slide your finger from the bottom right corner to the bottom left corner on any screen. • Shortcut to open the Navigation menu: slide your finger from the top left corner to the bottom left corner on any screen.

Start using XSG2

When the XSG2 navigation is started the first time, you need to do the following:

1. Select the written language of the application interface. Later you can change it in Settings (page 52).
2. Select the language and speaker used for voice guidance messages. Later you can change it in Settings (page 52).
3. Read the warning message and tap Accept to continue.

After this, the Navigation menu appears and you can start using the XSG2 navigation.

The typical way of using the XSG2 navigation is to select a destination, and start navigating. You can select your destination in the following ways:

- Use the selected location on the map (the Cursor) (page 21).
- 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 22).
- Enter an address with ZIP code (page **Error! Bookmark not defined.**). This way you do not need to select the name of the city and the search for street names might be faster as well.
- Use a coordinate (page **Error! Bookmark not defined.**)
- Use a saved location:
  - a Favorite (page **Error! Bookmark not defined.**)
  - a POI (page **Error! Bookmark not defined.**)
  - the History of previously set destinations and waypoints (page **Error! Bookmark not defined.**)

2.1 Buttons and other controls on the screen

When you are using the XSG2, you usually tap buttons on the touch screen.

You only need to confirm selections or changes in the XSG2 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, the XSG2 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	Info	Tap it to initiate a function, to open a new screen, or to set a parameter.	Tap it once.
Icon		Shows GPS position quality.	Some icons also function as a button. Tap them once.
List		When you need to select from several options, they appear in a list.	Move between pages with the ◀ and ▶ buttons and tap the value that you want.
Slider		When a feature has several different unnamed values, XSG2 shows an indicator on a gauge that displays and sets a value from a range.	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.
Switch		When there are only two choices, a checkmark shows whether the feature is enabled.	Tap it to turn the switch on or off.
Virtual keyboard		Alphabetic and alphanumeric keyboards to enter text and numbers.	Each key is a touch screen button.

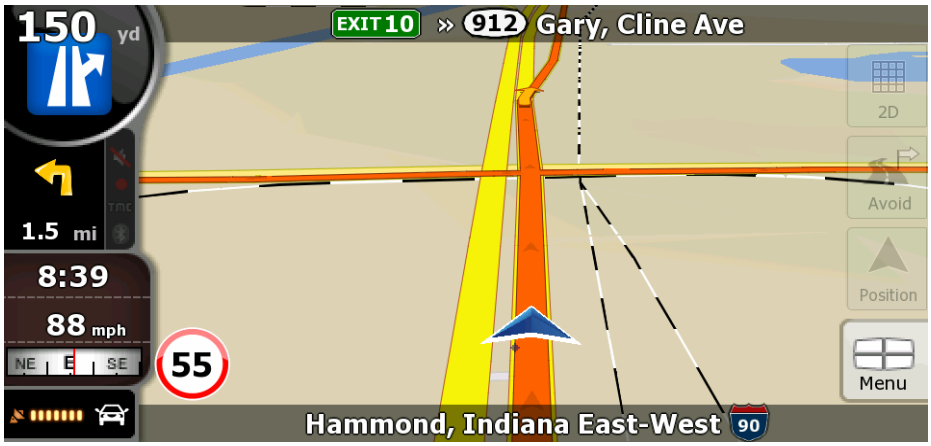
2.1.1 Using keyboards

You only need to enter letters or numbers in the XSG2 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 ABC, QWERTY, or numerical.

Task	Details
Switching to another keyboard layout, for example from an English QWERTY keyboard to a Greek keyboard	Tap Keys, and select from the list of available keyboard types.
	XSG2 remembers your last keyboard choice and offers it the next time you need to enter data.
Correcting your entry on the keyboard	Remove the unneeded character(s): tap ←. Tap and hold the button to delete the entire input string.
Entering a space, for example between a first name and a family name or in multi-word street names	Tap Space.
Entering symbols	Tap @/! to switch to a keyboard offering symbol characters.
Finalising the keyboard entry	Tap Done.

2.2 Using the map

The map screen is the most frequently used screen of the XSG2 navigation. It can be accessed from the Navigation menu by tapping **Map**.



For further information about the map screen, see page 34.

2.2.1 Checking the details of a map location

- If you are interested in the details of your current position during navigation:
  1. Check the bottom line of the map. It shows the current street and house number information.
  2. For further details, tap Position to open the Position menu.
  3. Tap **Info**. The address, the coordinate and the list of nearby POIs will be displayed.
- You can check the details of any other location by selecting it on the map:
  1. Tap the map anywhere to open the map control buttons.
  2. Tap the desired location on the map. The Cursor appears there. The address of the location is displayed at the bottom of the map.
  3. For further details, tap Cursor to open the Cursor menu.
  4. Tap **Info**. The address, the coordinate and the list of nearby POIs will be displayed.
- It is even easier if you select the desired point in the Find menu. Then the Cursor menu opens automatically. You only need to tap the **Info** button.

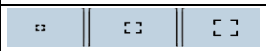
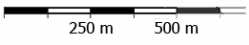
2.2.2 Manipulating the map

Position markers on the map:

- Current GPS position: (page 17)
- Selected location (Cursor): (page 17)

The following controls help you modify the map view to suit your actual needs the best. Most of these controls appear only if you tap the map once, and disappear after a few seconds of inactivity.

Action	Button(s)	Description
Moving the map with drag&drop	No buttons	You can move the map into any direction: tap and hold the map, and move your finger to the direction in which you want to move the map. If GPS position is available and you have moved the map, the button appears. Tap this button to return to the GPS position.
Opening/closing map control buttons		Tap this button to show or hide the following map control buttons: • Zoom in/out • Rotate left/right (3D map only) • Tilt up/down (3D map only) • Zoom preset buttons (2D map only) • Tilt and zoom preset buttons (3D map only) • Return to GPS position button • Smart Zoom button
Zooming in and out	,	Changes how much of the map is displayed on the screen. XSG2 uses high-quality vector maps that let you see 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 different limits in 2D and in 3D map view modes.
Tilting up and down	,	Changes the vertical view angle of the map in 3D mode.
Rotating left and right	,	Changes the horizontal view angle of the map in 3D mode. When GPS position is available, XSG2 always rotates the map so its top faces your direction of travel (Track-Up orientation). You can turn away from Track-Up with these buttons. If GPS position is available and you have rotated the map, the button appears. Tap this button to re-enable the automatic map rotation.
Viewing modes	,	Gives you the following map perspectives in XSG2: • classic top-down view (2D), the top of the map always faces North • perspective view (3D) the top of the map always points in the current driving direction The icon always shows the mode the button switches to: If you are in 3D mode, you can see the button and you need to tap it to switch to 2D mode.

Action	Button(s)	Description
Smart Zoom		XSG2 can automatically rotate, scale and tilt the map and give you the optimal view: • When you are approaching a turn, XSG2 zooms in and raises the view angle to let you easily recognize your maneuver at the next junction. • If the next turn is at a distance, XSG2 zooms out and lowers the view angle to show you the road in front of you. Tap this button once to enable Smart Zoom. Tap&hold the button to set the zoom limits of Smart Zoom.
Returning to normal navigation (back to the GPS position with automatic map rotation)		Tap this button to move the map back to the current GPS position. If the map has been rotated in 3D mode, automatic map rotation is also re-enabled.
Zoom preset buttons		Tap one of the preset buttons to set the zoom level to a fixed, predefined value. Smart Zoom is disabled. These buttons are available in 2D mode. Tap&hold any of the buttons to set its value to the current zoom level, or to reset it to its original value.
Tilt and zoom preset buttons		Tap one of the preset buttons to set the tilt and zoom levels to fixed, predefined values. Smart Zoom is disabled. These buttons are available in 3D mode. Tap&hold any of the buttons to set its value to the current tilt and zoom levels, or to reset it to its original value.
Map scale		XSG2 shows the scale of the map in 2D mode.

2.2.3 Lane information and Signposts

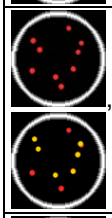
When navigating on multilane roads, it is important to take the appropriate lane in order to follow the recommended route. If lane information is available in the map data, XSG2 displays the lanes and their directions using small arrows either at the bottom or at the top of the map (the position of these arrows can be modified in Map Screen settings). Arrows in yellow color represent the lanes you need to take.

Where there is additional information available, signposts substitute arrows. Signposts are always 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 that signpost is displayed in vivid colors that points to the lane(s) to be taken; all others are darkened out.

2.2.4 Status information and hidden controls on the map

The following information appears in the rounded field in the top left corner, the Turn Preview field. When tapping this area, the result depends on the information currently shown.

Icon	Information	Details	Action
	There is no active route	If there is no route to be navigated, this icon appears in the Turn Preview field.	Tap this area to open Find.
	There is no valid GPS position.	If an active route exists, and there is no valid GPS position, the view of the sky above you is shown with colored dots for each satellite. Some dots need to turn green to be able to navigate.	Tap this area to open the Route Information screen.
	If the icon is a static picture, route calculation is needed	GPS position and an active route are available, but automatic off-route recalculation is switched off, and you deviated from the route.	Tap this area to make XSG2 recalculate the recommended route.
	If the icon is animated, route calculation is in progress	XSG2 is calculating or recalculating the route.	Nothing happens if you tap this area of the screen.
	Next route event (next maneuver)	GPS position and an active route are available, and you navigate the recommended route. This area gives you information about the type and distance of the next route event.	Tap this area to open the Route Information screen.

The following area appears next to the above described rounded area. When tapping this area, the result depends on the information currently shown.

Icon	Information	Details	Action
	There is no valid GPS position	If there is no valid GPS position, this symbol appears here.	Tap this area to open the GPS Data screen to check the signal status or the connection settings.
	Traffic restriction	When GPS position is available but there is no route to be navigated, the traffic restriction of the upcoming intersection is shown here if there is any.	Nothing happens if you tap this area of the screen.
	Second route event (maneuver after the next maneuver)	When GPS position and an active route are both available, this field shows the route event that follows the next route event shown in the above described area.	Tap this area to open the Itinerary screen with the turn by turn guidance instructions.
	Stops the running simulation	This icon appears during Route Simulation.	Tap this area to stop the simulation.
	Route recalculation progress	During route recalculation, this field shows the recalculation progress between 0% and 100%.	Nothing happens if you tap this area of the screen.

Icon	Information	Details	Action
	Indicator strip	 - sounds muted/enabled	Nothing happens if you tap this area of the screen.

The following symbols appear in the Indicator strip:

Icon	Description
	The sound output of XSG2 is muted.
	The sound output of XSG2 is enabled.

The following information can be seen in the three data fields shown on the map screen. Tap this area to open the Trip Information screen where you can select which values to be shown in these three fields.

When there is no active route, these fields show the following information: current speed, compass and the current time of day.

Icon	Type	More information
	Compass	Shows the direction of your heading both when the map is automatically rotated (3D) and when the map is always facing North (2D).
	Speed information	There are speed values that can be shown: • Current speed • Speed limit on the current road
	Time information	There are time values that can be shown: • Current GPS time • Time remaining to reach the destination • Time remaining to reach the next via point • Estimated arrival time at the destination • Estimated arrival time at the next via point
	Distance information	There are distance type values that can be shown: • Distance remaining to reach the destination • Distance remaining to reach the next via point • Current altitude

The next area is the GPS position quality indicator field. Tap this area to open the Quick menu (page **Error! Bookmark not defined.**).

Icon	Status for	More information
	GPS position quality	A higher number of lit bars indicates better GPS position accuracy.

2.2.5 Using the Cursor (the selected map location)

First, place the Cursor at the desired map location with one of the following options:

- Use the Find menu to select a location. The map returns with the selected point (the Cursor) in the middle, and the Cursor menu appears with the available options.
- Tap the screen and tap again to place the Cursor at the desired location. Now tap  to open the Cursor menu.

You can perform the following actions:

Button	Action
Set as Start	In the active route, uses the Cursor as the start point by replacing the current GPS position
Set as Destination	In the active route, uses the Cursor as the destination by replacing the previous destination
Insert as Via	In the active route, uses the Cursor as a via point (an intermediate destination) preceding the destination
Continue	In the active route, uses the Cursor as the destination while keeping the previous destination as a via point
Routing Methods	Shows the different routes calculated by the available routing methods. Choose the one that suits your needs the best
Save as POI	Saves the Cursor as a POI
Add to Favorites	Saves the Cursor as a Favorite location
Place Pin	Marks the map with a Pin at the Cursor
Info	Opens a screen with the name, address and coordinate information of the Cursor, and the list of POIs near it

2.3 XSG2 concepts

2.3.1 Smart Zoom

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

- **While following a route calculated by XSG2:** 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 in XSG2:** Smart Zoom will zoom in if you drive slowly and zoom out when you drive at high speed.

Enabling Smart Zoom

Tap the map to let the map control buttons appear, and then tap  to enable Smart Zoom.

Fine-tuning Smart Zoom

Tap the map to let the map control buttons appear, and then tap and hold  to open the Smart Zoom Settings window. Modify the zoom limits of Smart Zoom if necessary.

2.3.2 Position markers

2.3.2.1 Current GPS position and Lock-on-Road

When your GPS position is available, XSG2 marks your current position with the icon on the map.

The icon is aligned to the nearest road to suppress GPS position errors. The direction of the icon is one of the directions of the route.

To use the current GPS position, tap Position. The Position menu appears and you can save the GPS position as one of the following:

- a Favorite
- a POI
- a map marker Pin

2.3.2.2 Returning to normal navigation

When GPS position is available, and you have moved the map (the icon is moving or is not even visible), or you have rotated the map in 3D mode, the button appears. Tap it to move the map back to the GPS position and re-enable Track-up map orientation (automatic map rotation).

Note! Even if you move the map while you are driving, XSG2 continues navigating if there is an active route: it plays the voice instructions and displays the turn preview icons according to your current GPS position.

2.3.2.3 Selected location (Cursor)

If you select a location in the Find menu, or you tap the map when the map control buttons are visible, the Cursor appears at the selected point on the map. XSG2 displays the Cursor with a radiating red dot to make it visible at all zoom levels, even when it is in the background of a 3D map view.

When the Cursor is set, tap Cursor. The Cursor menu appears and you can use the Cursor as one of the following:

- the start point of a route
- a via point in a route
- the destination of a route

You can also search for POIs around the Cursor.

Or you can save the location of the Cursor as:

- a Favorite
- a POI
- a map marker Pin

2.3.2.4 Original position in the Cursor menu

When the Cursor menu is open, a special icon shows the Cursor position the menu was opened with.

You can move and zoom the map, and you can set the Cursor to a different place. The usual Cursor  appears, and the buttons of the Cursor menu initiate actions for this new location.

To return to the original Cursor position, tap  . The map jumps back to the position with which the Cursor menu was opened, and the  icon appears again.

2.3.3 Daytime and night color schemes

XSG2 uses different color schemes during the day and during the night.

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

XSG2 offers different daytime and night color schemes. It can also switch automatically between the daytime and the night scheme 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.

2.3.4 Color scheme in tunnels

When entering a tunnel, the colors of the map change. All buildings disappear, the large objects (such as surface waters or forests) and the empty areas between roads become black.

However roads and streets keep their original colors from the daytime or night color scheme currently used.

After leaving the tunnel, the original colors return.

2.3.5 Route calculation and recalculation

XSG2 calculates the route based on your preferences:

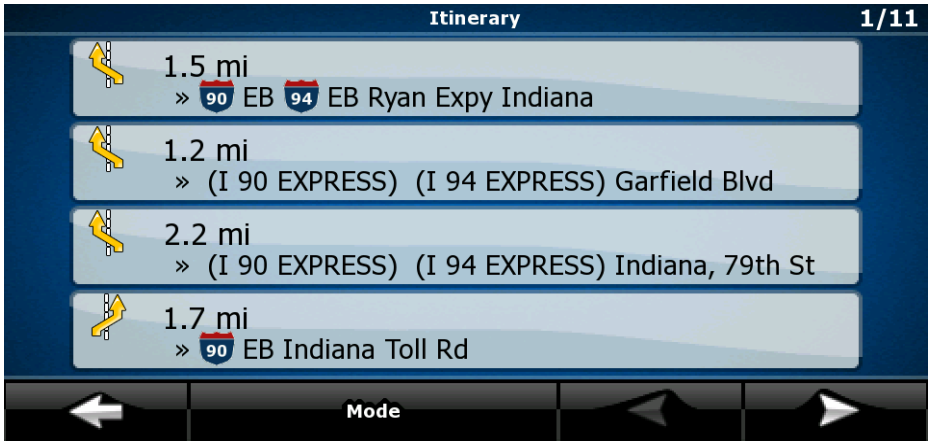
- Route calculation method:
  - Fast
  - Short
  - Economical
- Easy Vehicle types :
  - Car
  - Bus
- Road types
  - Unpaved Roads
  - Permit Needed
  - Freeways
  - Toll Roads
  - Charge Roads

- Ferries
- Cross-border Planning

XSG2 automatically recalculates the route if you deviate from the proposed itinerary.

2.3.6 Itinerary

The Itinerary is the list of the route events, that is, the driving instructions.



When you are on the Map screen, you can display the Itinerary in one of the following ways:

- Tap the area between the Turn preview and the Travel data fields where the symbol of the second next maneuver is displayed (for example 100m).
- Tap the following buttons: Menu, Route, Itinerary.

You have the following options on the Itinerary screen:

Button	Description
Any of the list items	Opens the map with the selected maneuver in the middle.
Mode	Changes the detail level of the Itinerary. The levels are as follows: • Detailed Instructions: all intersections are listed • Itinerary: only significant intersections (the ones announced in voice guidance) are listed • Road list: the list of the roads used while navigating the route
◀ , ▶	Moves between pages for additional list items.

When the map is open with a maneuver in the middle:

Button	Description
+	Zooms in the map.
−	Zooms out the map.
◀ , ▶	Moves the map to show the previous or next maneuver.
Avoid	Opens a screen where you can avoid a part of the route starting from the selected maneuver.

2.3.7 Route demonstration

A simulation drives you through the route, following the driving instructions (page 31).

You can use it, for example, to see which bridge XSG2 planned for the route; if you do not want to take that bridge, you can avoid it.

Route demonstration can be started from the Route menu by tapping the Simulate button.

2.3.8 POI (Points of Interest)

A point of interest (POI) is a location that someone might find useful or interesting. XSG2 is delivered with thousands of POIs and you can also create your own POIs in the application.

POI locations are marked on the map with special icons. POI icons are quite large so you can easily recognize the symbol. The icons are also semi-transparent: they do not cover the streets and intersections behind them.

POIs are grouped into several levels of categories and subcategories. The icon of a POI that comes with the map shows the symbol of the POI category. If you save your own POI, you can select an icon for it independently of the POI category you have put it in.

Saving POIs

To save a POI, place the Cursor at the desired location, then tap the following buttons: Cursor, More Options..., Save as POI.

Managing POIs

You can select which POI groups to show and which ones to hide on the map, and from which zoom levels POI icons are visible. At the same place you can manage your saved POIs. A saved POI can be renamed, moved to a different POI group, its icon can be changed, or a phone number and additional information can be added to it. Tap the following buttons: Menu, Manage, POI.

2.3.9 Speed limit warning

Maps sometimes contain information about the speed limits of the road segments. This information may not be available for your region (ask your local dealer) or may not be fully correct for all roads on the map.

You can configure XSG2 to warn you if you exceed the current limit. Tap the following buttons: Menu, Settings, Warnings, Warn When Speeding.

When you exceed the speed limit, the following happens:

- Visible Warning: A symbol with the speed limit appears in the corner of the map 50
- Audible Warning: A voice message is played using the selected voice guidance profile.

3 Navigating with XSG2

You can set up your route in the XSG2 in several ways:

- if you need a simple route (a route with only one destination, without any intermediate via points), you can select the destination and start navigating to it right away
- you can plan a multi-point route
- you can also plan a route independently of your current GPS position or even without GPS reception

3.1 Selecting the destination of a route

XSG2 offers you several ways of choosing your destination and via points (intermediate destinations):

- Use the selected location on the map (the Cursor) (page 21).
- 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 22).
- Enter an address with ZIP code (page **Error! Bookmark not defined.**). This way you do not need to select the name of the city and the search for street names might be faster as well.
- Use a coordinate (page **Error! Bookmark not defined.**)
- Use a saved location:
  - a Favorite (page **Error! Bookmark not defined.**)
  - a POI (page **Error! Bookmark not defined.**)
  - the History of previously set destinations and waypoints (page **Error! Bookmark not defined.**)

Tip!

If you are going to use a route later, save it before you start navigating. Tap the following buttons: 

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3.1.1 Selecting the Cursor as the destination

1. Locate your destination on the map: move and scale the map as needed (page **Error! Bookmark not defined.**).
2. Tap the location that you want to select as your destination. The Cursor  appears.
3. Tap 

to open the Cursor menu.
4. The map appears with the selected point in the middle. Tap 

from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Tip!

If you know that you will use a destination later, when the Cursor menu appears, save it as a POI, or put it on the list of your Favorites first. The Cursor menu returns automatically with the same point. Now you can use it as a route point.

3.1.2 Entering an address or part of an 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
- an intersection
- the midpoint of a street
- any of the above, starting the search with the ZIP code (page **Error! Bookmark not defined.**)

3.1.2.1 Entering an address

The parts of the address are shown on buttons. Start reading from the top, and if you want to change any of them, tap the button.

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: 

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2. By default, the XSG2 proposes the country, state and city where you are. If needed, tap the button with the name of the country, and select a different one from the list. If you select a new country, you also need to select the state, or tap <All states> to search for a city regardless of the state it is in.
3. If needed, change the city:
   - To select the city from the list of recently used ones, tap the  button.
   - To enter a new city:

1. Tap the button with the name of the city, or if you have changed the country/state, tap <City Name>.
2. Start entering the city name on the keyboard.
3. Get to the list of search results:
   - After entering a couple of characters, the names that match the string appear in a list.
   - Tap Done to open the list of results before it appears automatically.
4. Select the city from the list.

4. Enter the street name:
   1. Tap <Street Name>.
   2. Start entering the street name on the keyboard.
   3. Get to the list of results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap Done to open the list of results before it appears automatically.
   4. Select the street from the list.
5. Enter the house number:
   1. Tap <House Number>.
   2. Enter the house number on the keyboard. (To enter letters, tap Numbers and select an alphabetic keyboard layout. To enter symbols, tap 1/!).
   3. Tap Done to finish entering the address.
6. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.2.2 Entering an address if house numbering is restarted

There are long roads where house numbering is restarted at some point. This way the same house number can appear twice or even more times on the same road. If this is the case, after entering the house number, you need to select the appropriate address by the district/suburb information.

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: Find, Find Address.
2. By default, XSG2 proposes the country/state and city where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the city:
   - To select the city from the list of recently used ones, tap the button.
   - To enter a new city:
     1. Tap the button with the name of the city, or if you have changed the country/state, tap <City Name>.
     2. Start entering the city name on the keyboard.

3. Get to the list of search results:
    - After entering a couple of characters, the names that match the string appear in a list.
    - Tap Done to open the list of results before it appears automatically.
4. Select the city from the list.

4. Enter the street name:
    1. Tap <Street Name>.
    2. Start entering the street name on the keyboard.
    3. Get to the list of results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap Done to open the list of results before it appears automatically.
    4. Select the street from the list.
5. Enter the house number:
    1. Tap <House Number>.
    2. Enter the house number on the keyboard.
    3. Tap Done to finish entering the address.
6. A list appears with the matching addresses. Tap the desired one.
7. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.2.3 Entering an address without knowing the district/suburb

Long roads can run across several districts or suburbs. You may not know what particular house number is located where. In this case, follow the instructions below:

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: Find, Find Address.
2. By default, XSG2 proposes the country/state and city where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the city:
    - To select the city from the list of recently used ones, tap the button.
    - To enter a new city:
        1. Tap the button with the name of the city, or if you have changed the country/state, tap <City Name>.
        2. Start entering the city name on the keyboard.
        3. Get to the list of search results:
            - After entering a couple of characters, the names that match the string appear in a list.
            - Tap Done to open the list of results before it appears automatically.

4. Select the city from the list.

4. Enter the street name:
    1. Tap <Street Name>.
    2. Start entering the street name on the keyboard.
    3. Get to the list of results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap Done to open the list of results before it appears automatically.
    4. Instead of selecting one of the streets, tap Search in All.
5. Enter the house number:
    1. Tap <House Number>.
    2. Enter the house number on the keyboard.
    3. Tap Done to finish entering the address.
6. A list appears with the matching addresses. Tap the desired one.
7. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.2.4 Selecting an intersection as the destination

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: Find, Find Address.
2. By default, XSG2 proposes the country/state and city where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the city:
    - To select the city from the list of recently used ones, tap the button.
    - To enter a new city:
        1. Tap the button with the name of the city, or if you have changed the country/state, tap <City Name>.
        2. Start entering the city name on the keyboard.
        3. Get to the list of search results:
            - After entering a couple of characters, the names that match the string appear in a list.
            - Tap Done to open the list of results before it appears automatically.
        4. Select the city from the list.
4. Enter the street name:
    1. Tap <Street Name>.
    2. Start entering the street name on the keyboard.
    3. Get to the list of results:

- After entering a couple of characters, the names that match the string appear in a list.
- Tap Done to open the list of results before it appears automatically.

4. Select the street from the list.

5. Tap the Intersection button.
   - If only a few intersecting streets exist, their list appears immediately.
   - In case of a longer street, a keyboard screen appears. Start entering the name of the intersecting street on the keyboard. As you type, if the matching streets can be shown on one screen, their list appears automatically.
6. Tap the desired intersecting street in the list.
7. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.2.5 Selecting a city center as the destination

The City Center is not the geometric center of the city 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 an important intersection.

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: Find, Find Address.
2. By default, XSG2 proposes the country/state and city where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the city:
   - To select the city from the list of recently used ones, tap the button.
   - To enter a new city:
     1. Tap the button with the name of the city, or if you have changed the country/state, tap <City Name>.
     2. Start entering the city name on the keyboard.
     3. Get to the list of search results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap Done to open the list of results before it appears automatically.
     4. Select the city from the list.
4. Tap the City Center button.
5. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.2.6 Entering an address with a ZIP code

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

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: 

, 

.
2. By default, XSG2 proposes the country/state and city where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. Tap the button with the name of the city, and enter the ZIP code:
    1. Start entering the ZIP code on the keyboard.
    2. Get to the list of results:
        - After entering a couple of numbers, matching results appear in a list.
        - Tap **Done** to open the list of results before it appears automatically.
    3. Pick the city from the list.
4. Enter the street name:
    1. Tap <Street Name>.
    2. Start entering the street name on the keyboard.
    3. Get to the list of results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap **Done** to open the list of results before it appears automatically.
    4. Select the street from the list.
5. Enter the house number:
    1. Tap <House Number>.
    2. Enter the house number on the keyboard.
    3. Tap **Done** to finish entering the address.
6. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.2.7 Tips on entering addresses quickly

- When you are entering the name of a city or a street, XSG2 only displays those characters that appear in possible search results. The other characters are grayed out.
- When entering the city name or the street name, tap the **Done** button after a couple of letters; XSG2 lists 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. This is useful when a street name is common and it is used in several districts of a city.

3.1.3 Selecting the destination from your Favorites

You can select a location that you have already saved as a Favorite to be your destination.

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: 

, 

.
2. Tap the Favorite that you want to set as your destination.
3. The map appears with the selected point in the middle. Tap 

from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.4 Selecting the destination from the POIs

You can select your destination from the POIs included with XSG2 or from the ones you have previously created.

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: 

, 

.
2. Select the area around which the POI should be searched for:
   - 

: The POI will be searched for around a given address.
   - 

: The map appears with the Cursor in the middle. Modify the location of the Cursor if necessary, then tap 

. The POI will be searched for around the given location.
   - 

: The POI will be searched for around the current GPS position.
   - 

: The POI will be searched for around the destination of the active route.
   - 

: The POI will be searched for not around a given point, but by the size of the detour it adds to the active route. This can be useful if you search for a later stopover that causes only a minimal detour, for example upcoming gas stations or restaurants.
3. You can narrow the search with the following:
   - Select the POI group (e.g. Accommodation), and after that, if needed, select the POI subgroup (e.g. Hotel or Motel).
   - To find the POI by its name, tap 

, and use the keyboard to enter a part of the name.
   - To list all POIs in a given POI group, tap 

.
4. [optional] When finally the list of results appear, you can sort the list:
   - 

: sort the list alphabetically (available when you search around a single location)

- Order by Distance: sort the list by the distance from your current position in a straight line (available when you search around a single location)
- Order by Distance: sort the list by the distance to drive on route from your current position (available when you search along the active route)
- Order by Detour: sort the list by the size of the needed detour (available when you search along the active route)

5. Tap the desired POI in the list.
6. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.5 Selecting the destination from the History

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

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: Find, History.
2. If necessary, move between pages with  to see earlier destinations.
3. Tap the desired item.
4. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.1.6 Selecting the destination by entering its coordinates

The procedure is explained starting from the Navigation menu.

1. Tap the following buttons: Find, Find Coordinate.
2. [optional] Tap Coordinate Display Format to change the format of the displayed coordinates.
3. Tap the latitude or longitude value to change the coordinates.
4. Enter the coordinate values in WGS84 format on the keyboard: the latitude (N or S) and the longitude (E or W).
5. Tap Done.
6. The map appears with the selected point in the middle. Tap Set as Destination from the Cursor menu. The route is then automatically calculated, and you can start navigating.

3.2 Creating a multi-point route (inserting a via point)

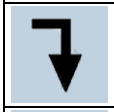
Multi-point routes are created from simple routes, so a route must be active first. One of the ways of expanding the route is to keep the destination, and to add via points (intermediate destinations).

1. Select a new location as you did in the previous sections. This will be the additional destination in the route.
2. The map appears with the selected point in the middle, and the Cursor menu opens automatically.
3. Tap 

to add the point as an intermediate destination preceding the final destination of the route.
4. [optional] To add more points to the route, repeat the above steps as many times as you like.

If you insert a via point in a route that is already a multi-point route, you will automatically be taken to the Edit Route screen where you can determine the position of the intermediate route point. When you enter the screen, the new via point is placed as the last via point before the final destination. The new point is the selected point in the list.

You have the following options:

Button	Action
	The selected point moves up in the list (becomes a via point to be reached earlier). Tap this button repeatedly, and the point becomes the start point of the route.
	The selected point moves down in the list (becomes a via point to be reached later). Tap this button repeatedly, and the point becomes the final destination of the route.
	The route is reversed. The start point becomes the destination, the destination becomes the start point, and all via points are to be reached in the opposite order than before.

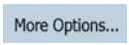
The route is optimized. The start point and the destination remain at their position, but the via points are reordered to make the shortest possible route.

The selected point is removed from the route. The route remains as it was before adding the new point.

Every time a new point is added, the route is recalculated automatically, and you can start navigating right away.

3.3 Creating a multi-point route (appending a new destination)

Multi-point routes are created from simple routes, so a route must be active first. One of the ways of expanding the route is to add a new destination. The previous destination becomes the last via point of the route.

1. Select a new location as you did in the previous sections. This will be the additional destination in the route.
2. The map appears with the selected point in the middle, and the Cursor menu opens automatically.
3. Tap 

to open the full Cursor menu with the additional functions.
4. Tap 

to add the point as a new final destination demoting the previous one to the last intermediate destination.
5. [optional] To add more points to the route, repeat the above steps as many times as you like.

Every time a new point is added, the route is recalculated automatically and you can start navigating right away.

3.4 Editing the route

Tap the following buttons: 

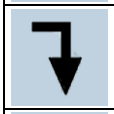
, 

, 

.

The list of route points appear with the start point at the top of the list and the final destination at the bottom. If several via points exist, you might need to scroll between pages.

Tap one of the route points in the list. You have the following options:

Button	Action
	The selected point moves up in the list (becomes a via point to be reached earlier). Tap this button repeatedly, and the point becomes the start point of the route.
	The selected point moves down in the list (becomes a via point to be reached later). Tap this button repeatedly, and the point becomes the final destination of the route.
	The route is reversed. The start point becomes the destination, the destination becomes the start point, and all via points are to be reached in the opposite order than before.

The route is optimized. The start point and the destination remain at their position, but the via points are reordered to make the shortest possible route.

The selected point is removed from the route.

As soon as you leave this screen, the route is recalculated automatically, and you can start navigating right away.

3.5 Watching the simulation of the route

The procedure is explained starting from the Map screen.

1. Tap the following buttons: 

, 

.
2. The Route menu appears.
3. Tap 

to run the simulation at normal speed and with voice guidance instructions announced.
4. The simulation can be aborted any time by tapping 

.

3.6 Enabling Safety Mode

Safety Mode disables the touch screen above 10 km/h (6 mph) to keep your attention on the road. While driving, you will not be able to set a new destination or to change settings. The only screen control that remains enabled is the gesture that puts you back on the Map screen.

The procedure is explained starting from the Map screen.

Tap the following buttons: 

, 

, 

, 

.

3.7 Pausing the active route

You do not need to pause the active route: when you start driving again, XSG2 restarts the voice instructions from your position.

3.8 Deleting the next via point from the route

The easiest way to delete the upcoming route point (the next via point) is to open the Route Information screen by tapping the Turn Preview field  on the Map screen, and then tapping Skip Next Via.

You have another option. Tap the following buttons: 

, 

, 

, Skip Next Via.

3.9 Deleting the active route

The easiest way to delete the active route is to open the Route Information screen by tapping the Turn Preview field  on the Map screen, and then tapping Delete Route.

You have another option. Tap the following buttons: 

, 

, 

.

Note!

If via points exist in the active route, you cannot delete the route immediately on the Route Information screen. Tap Skip Next Via repeatedly until all via points disappear and the Delete Route button appears. Tap it to cancel the whole route.

3.10 Saving a route

The procedure is explained starting from the Map screen.

1. Tap the following buttons: 

, 

, 

.
2. Enter a name for the saved route, and then tap Done.

When you save a route, XSG2 not only saves the route points but the whole itinerary:

- If you updated your map since you first saved the route, XSG2 recognizes the change, and recalculates the driving instructions according to the latest available map information.
- XSG2 deletes from the route any via points that you already left behind during navigation together with the road segments used to reach it. To avoid this, if you want to save the route, you need to save it before you start navigating.

3.11 Loading a saved route

The procedure is explained starting from the Map screen.

1. Tap the following buttons: 

, 

, 

.
2. Tap the route you wish to navigate.
3. In the very likely case when the start position of the saved route is different from the current GPS position, you need to confirm whether you want to stop navigating from the current GPS position to use the start point of the loaded route.
    - If you choose this option, automatic off-route recalculation will be disabled.
    - If you choose to keep the current GPS position as the start point, the route will be recalculated starting from your current position.
4. The map appears, and you can start navigating.

4 Reference Guide

On the following pages you will find the description of the different menu screens of XSG2.

The Navigation menu:

XSG2 starts with the Navigation menu. From there you can access the following screens:

Screen	Button	Description
Map	Map	The Map screen.
Find	Find	Selecting the destination (for example an address or a POI) or using the search engine of XSG2 for any other reason (for example to look for the phone number of a POI).
Route	Route	Managing the active route (obtaining information about it, changing or deleting it or parts of it) or planning a route without GPS reception.
Manage	Manage	Managing user data, such as saved locations (POIs, Favorites, Pins, and History items), and Saved Routes.
Settings	Settings	Managing the behavior of XSG2, for example the map layout during navigation, the used languages or the warnings.

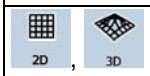
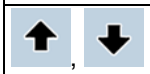
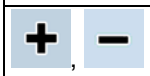
4.1 Map screen

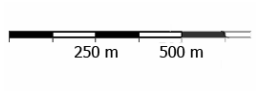
XSG2 is primarily intended for land navigation. That is why maps in XSG2 look similar to paper road maps. However, XSG2 provides much more than regular paper maps: you can customize the look and the content of the map.

The most important and most often used screen of XSG2 is the Map screen.

During navigation, the screen shows route information and trip data (left screenshot), but when you tap the map, additional buttons and controls appear for a few seconds (right screenshot). Most parts of the screen behave as buttons.

Symbol	Name	Action
	Turn Preview, that is, the next route event	Opens the Route Information screen
	Second upcoming route event	Opens the Itinerary
	Trip data	Opens the Trip Information screen
	GPS position quality	Opens the Quick menu
Top row	Next street	n/a
Bottom row	Current street and house numbers on left and right	n/a

Symbol	Name	Action
	Map view modes	Switches between 2D and 3D map modes: • 2D North-up • 3D rotated
	Menu	Opens the Navigation menu
	Avoid	Opens the Avoid screen, offering ways to avoid parts of the route
	Position menu (appears when navigating a route)	Opens the Position menu
	Cursor menu (appears when there is no GPS position or the Cursor is not at the current GPS position)	Opens the Cursor menu
	Open/Close Map control buttons	Tap this button to show or hide the following map control buttons: • Zoom in/out • Rotate left/right (3D map only) • Tilt up/down (3D map only) • Zoom preset buttons (2D map only) • Tilt and zoom preset buttons (3D map only) • Return to GPS position button • Smart Zoom button
	Rotate left, rotate right	Rotates the 3D map left or right
	Tilt up, tilt down	Tilts the 3D map
	Zoom in, zoom out	Scales the map
	Return to GPS position (appears when GPS position is available and you have moved the map)	Tap this button to move the map back to the current GPS position. If the map has been rotated in 3D mode, automatic map rotation is also re-enabled.
	Enable Smart Zoom (replaces the previous button if there is no GPS position or the map has not been moved)	Tap this button once to enable Smart Zoom. Tap&hold the button to set the zoom limits of Smart Zoom.
	Zoom preset buttons	Tap one of the preset buttons to set the zoom level to a fix, predefined value. Smart Zoom is disabled. These buttons are available in 2D mode. Tap&hold any of the buttons to set its value to the current zoom level, or to reset it to its original value.
	Tilt preset buttons	Tap one of the preset buttons to set the tilt and zoom levels to fix, predefined values. Smart Zoom is disabled. These buttons are

Symbol	Name	Action
		available in 3D mode. Tap&hold any of the buttons to set its value to the current tilt and zoom levels, or to reset it to its original value.
	Current GPS position (on nearest road)	n/a
	Cursor (selected map location)	n/a
	Lane information	n/a
	Signpost information	n/a
Blue line	Active route	n/a
	Map scale (2D map only)	n/a

4.1.1 Icons on the map

There are several status icons on the map. Most of them also function as a button. The information they provide is as follows:

- GPS position quality
- Sound status (muted or enabled)

4.1.1.1 GPS position quality indicator

This area is a status indicator, and also acts as a button that opens the Quick menu.

GPS reception quality shows the current accuracy of the position information.

Icon	Description
	XSG2 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.
	XSG2 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.

4.1.1.2 Status indicator strip

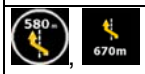
This is a multiple status indicator. It indicates the following status information on a single strip:

Icon	Description
	The sound output of XSG2 is muted.
	The sound output of XSG2 is enabled.

4.1.1.3 Next two route events (Turn Preview fields)

There are two fields reserved on the Map screen to display the next two maneuvers (route events that are listed in the Itinerary). Both the type of the event (turn, traffic circle, exiting freeway, etc.) and its distance from the current GPS position is displayed.

Most of these icons are very intuitive and you also know them as road signs. The following table lists some of the frequently shown route events. The same symbols are used in both fields:

Icon	Description
	Turn left.
	Turn right.
	Turn back.
	Bear right.
	Turn sharp left.
	Keep left.
	Continue straight in the intersection.
	Enter traffic circle. The number of the exit is shown in the circle, but only for the next turn.
	Enter freeway.
	Exit freeway.
	Board ferry.
	Leave ferry.
	Approaching the next via point.
	Approaching the destination.

These fields may show other useful pieces of information. Please see page 14.

4.1.2 Objects on the map

4.1.2.1 Streets and roads

XSG2 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.

Tip!

If you prefer not to see street names during navigation, turn them off (page **Error! Bookmark not defined.**).

4.1.2.2 3D object types

To enable or disable 3D visualization on the map, tap the following buttons: 

, 

, 

, 

.

XSG2 (Premium optional package only) supports the following 3D object types:

Type	Description
3D landmarks	Landmarks are 3D artistic or block representations of prominent or well-known objects. 3D landmarks are only available in selected cities and countries.
Elevated roads	Complex intersections and vertically isolated roads (such as overpasses or underground tunnels) are displayed in 3D.
Building Visibility	Full 3D city building data that represents actual building size and position on the map. Building data is limited to the city centers of major cities in the US and Europe.
Terrain Detail Level	3D terrain map data shows changes in terrain, elevations or depressions in the land when you view the map, and use it to plot the route map in 3D when you navigate.

4.1.2.3 Elements of the active route

XSG2 shows the route in the following way:

Symbol	Name	Description
	Current GPS position	Your current position displayed on the map. This is not the exact GPS position. The arrow is put on the nearest road.
	Cursor (selected map location)	The location selected in the Find menu, or a map point selected by tapping the map.
	Start point	The first point of the route. Normally if GPS position is available, it is the start point of the route. If there is no valid GPS position, XSG2 uses the last known GPS position as the start point. When you are using a saved route, XSG2 asks you if you want to use your GPS position or the first point in the saved route as the start point. You can also modify the start point in the Cursor menu. If you do so, automatic off-route recalculation needs to be turned off to keep the selected point as the start point. If automatic off-route recalculation is disabled for any of the above, tapping the  icon in the Turn Preview field not only initiates route recalculation from the current GPS position, but it will re-enable the automatic off-route recalculation as well.
	Via point	A via point is an intermediate destination. You can place as many via points as you want.
	Destination (end point)	The last point of the route, the final destination.
	Route color	The route always stands out with its color on the map, both in daytime and in night color mode. The active leg of the route is always displayed in a brighter shade than the inactive (upcoming) legs.
	Active leg of the route	The section of the route on which you are driving. If you have not added any via points (only a

Symbol	Name	Description
		destination), the entire route is the active leg. If you have added via points, the active leg is the part of the route from your current location to the next route point (the next via point, or the destination if there are no more via points to reach).
	Inactive legs of the route	The future sections of the route; each of them becomes active when you reach the via point at its beginning.
	Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types (page **Error! Bookmark not defined.**). However, when XSG2 cannot avoid such roads, the route will include them and it will show them in a color that is different from the route color.

4.1.3 Avoid menu

This screen contains quick detour possibilities during navigation. It can be opened directly from the Map screen by tapping Detour.

You have the following options:

- Tap any of the distance buttons if you want to bypass a part of the route starting from the next intersection.
- Delete Avoids: If you have used the above function before, tap this button to clear the restrictions from the map.

4.1.4 Cursor menu

As soon as you select one point in the Find menu, the map appears with the Cursor menu, a menu with possible actions for the selected point.

Alternatively when you tap the map, control buttons appear. Tap again to place the Cursor, a radiating red dot. Now tap Cursor, and the Cursor menu opens with a list of options.

In order to show a part of the map with the Cursor menu, it contains only a few buttons first. Tap More Options... to get all the options.

Button	Description
	Closes the Cursor menu, and returns to the previous screen.
	Zooms out the map.
	Zooms in the map.
	With the Cursor menu open, you can still move or scale the map, and tap the map anywhere to place the Cursor to a new location, but when you use this button, the Cursor jumps back to the place where it was at the time when you opened the Cursor menu.
	Displayed at the Cursor if it is at the same location with which the Cursor menu was opened.
	Displayed at the Cursor if it has been relocated since the Cursor menu was opened.
Info	Opens a new screen with the address and coordinate of the Cursor, and

Button	Description
	the list of nearby POIs.
More Options...	Opens the full-screen Cursor menu with all the possible options.
Set as Destination	A new route is calculated with the Cursor as the destination. The previous route is deleted.
Remove Destination	If the Cursor is at or near the destination, this button replaces the previous one, and deletes the current destination from the route. The last via point is promoted as destination, or if there are no via points, the route is deleted.
Insert as Via	The Cursor is added to the active route as an intermediate route point, a point to be reached before the destination. If there is already a via point in the route, the Edit Route screen opens to let you decide where the new via point is to appear in the route.
Remove Via	If the Cursor is at or near one of the via points, this button replaces the previous one, and deletes the selected via point from the route. The route is recalculated without the deleted point.
Continue	The Cursor is appended at the end of the route as the new destination. The previous destination is demoted, and becomes the last via point.
Routing Methods	This button is similar to the Set as Destination button, but a new screen opens, and the route is calculated with all the possible route calculation methods (Fast, Short, Economical and Easy). Observe the results, and choose one of the routes to navigate.
Set as Start	The Cursor becomes the start point of the route. This means that the route is not started from the current GPS position, and Automatic Off-route Recalculation needs to be turned off to keep the selected point as the start point.
Remove Start	If the Cursor is at or near the selected start point, this button replaces the previous one and deletes the start point from the route. The current GPS position is used again as the start point, and Automatic Off-route Recalculation is re-enabled.
Save as POI	The Cursor is saved as a user POI. Select the POI group and give a name for the POI, then select a suitable icon, enter a phone number, and additional information if you like.
Place Pin	Map locations can be marked with Pins. Unlike POIs, a Pin has no name and other details, only a color to let you tell one from another on the map.
Remove Pin	If the Cursor is at or near a Pin, this button replaces the previous one, and deletes the Pin the Cursor is near to.
Add to Favorites	The location of the Cursor is added to the list of frequently visited destinations, the so called Favorites. You can give a name for the Favorite.

4.1.5 Position menu

When you follow the recommended route on the map (the Cursor is the current GPS position), the Position menu replaces the Cursor menu. It does not contain buttons that modify the current route, as the GPS position is not useful as a route point.

To open the Position menu, tap Position.

4.1.6 Route Information screen

The Route Information screen has all the data and some of the functions you need while you navigate. There are two ways to open this screen:

- It can be opened directly from the Map screen by tapping the Turn Preview field  .
- From the Navigation menu, tap the following buttons:  ,  .

In the top section of the screen you see information about the current route. The fields on this screen are continuously updated while you keep the screen open.

When you open the screen, all fields contain information about reaching your final destination. Tap any of the fields to see data on the via points starting from the first one through the final destination again.

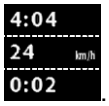
You have the following data and functions on this screen:

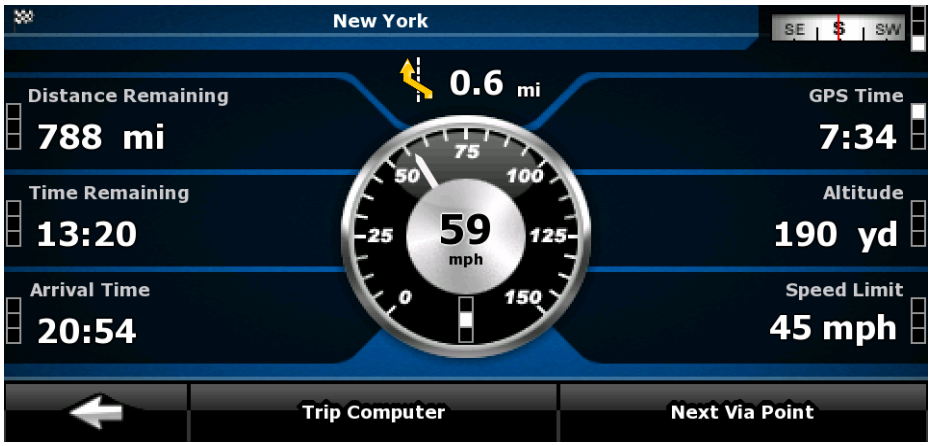
Name	Description	Function
Route Line	The upper part of this screen shows your planned route as a horizontal line. Its leftmost point is the start of the route, the rightmost one is the final destination, and you can see your via point flags along the line, spaced in proportion to their distance.	Tap this field to change the content of all data fields to via point information.
Estimated Arrival	Shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to change the content of all data fields to via point information.
Distance Left	Shows the distance you need to travel on the route before reaching your final destination.	Tap this field to change the content of all data fields to via point information.
Time Left	Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to change the content of all data fields to via point information.
Method	This field shows how the route was calculated. It displays the Route Calculation Method: Fast, Short, Easy or Economical.	Tap this field to change the content of all data fields to via point information.
Warning icons	In these square fields graphical symbols are displayed in case warnings are attached to the planned route. These are warnings, so icons always show information for the whole route,	Tap any of the icons for an explanation.

Name	Description	Function
	even if the data fields display values from your current position to a via point only.	
Settings		Opens the Route Planning options screen from the Settings menu.
Skip Next Via	Appears only if at least one via point exists.	Deletes the next via point from the route.
Delete Route	Appears only if there are no via points in the route.	Deletes the active route.

4.1.7 Trip Information screen

The Trip Information screen has both route and travel data you might need during your journey. It can be opened directly from the Map screen by tapping the Trip Data field





The fields on this screen are continuously updated while you keep the screen open.

When you open the screen, all route data fields contain information about reaching your final destination. Tap Next Via Point and the fields concerning your route display data for the next via point. Tap the button repeatedly to toggle between the two options.

You have the following data and functions on this screen:

Name	Description	Function
or	Shows whether the route data fields show information about the final destination (checkered flag) or about the next via point (yellow flag) .	
Field next to the flag	Shows the name or number of the current street or road.	
Turn Preview	Shows the type and distance of the next route event.	
Compass	Shows the current heading.	Tap this field to show it on the map screen in one of the Trip Data fields.
Speedometer	Shows the current speed both graphically and as a number.	Tap this field to show it on the map screen in one of the Trip

Name	Description	Function
		Data fields.
Distance Remaining	Shows the distance you need to travel on the route before reaching your final destination.	Tap this field to show it on the map screen in one of the Trip Data fields.
Time Remaining	Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to show it on the map screen in one of the Trip Data fields.
Arrival Time	Shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to show it on the map screen in one of the Trip Data fields.
GPS Time	Shows the current time corrected with time zone offset. The accurate time comes from the GPS satellites, and the time zone information comes from the map or it can be set manually in Regional settings.	Tap this field to show it on the map screen in one of the Trip Data fields.
Altitude	Shows the elevation if it is provided by the GPS receiver.	Tap this field to show it on the map screen in one of the Trip Data fields.
Speed Limit	Shows the speed limit of the current road if the map contains it.	Tap this field to show it on the map screen in one of the Trip Data fields.
Trip Computer		Opens a new screen with three resettable Trip Computers.
Next Via Point		Tap this button to change the content of the Route Data fields to show information about the next via point.
Destination	If you tap the previous button, this one replaces it.	Tap this button and the Route Data fields show information about the final destination again.

Most of the fields on this screen have a  symbol next to them. This symbol shows whether the field it is attached to is shown on the map as a Trip Data. It also shows the position of the data as follows:

Symbol	Description
	This value is not shown on the map screen.
	This value appears on the map screen in the Trip Data area. This is the value at the top.
	This value appears on the map screen in the Trip Data area. This is the value in the middle.
	This value appears on the map screen in the Trip Data area. This is the value at the bottom.

4.1.7.1 Trip Computer screen

The Trip Computer screen provides collected trip data. It can be opened from the Trip Information screen by tapping Trip Computer.

The fields on this screen are continuously updated while you keep the screen open.

You can switch between the trips, pause then resume them, or reset their data.

You have the following functions on this screen:

Name	Description
Pause	Pauses the trip currently shown on the screen. Values on the screen stop changing.
Resume	This button replaces the previous one if it has been activated. Tap it to resume collecting trip data.
Reset	Resets all counters of the currently shown trip. Collecting trip data is restarted only when XSG2 receives a position from the GPS.
◄ , ►	Cycles through all trips.

4.1.8 Quick menu

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

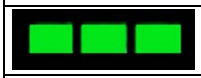
If you tap any of the switches in the Quick menu, the Map screen immediately returns.

Name	Main function (single tap)	Function (tap and hold)
◄	If you only adjust the volume, you need to use this button to return to the Map screen.	Opens the Navigation menu.
	Mutes all sounds of XSG2.	Opens Sound settings.
	Switches between the daytime and night color schemes manually. This will not disable the automatic switching between the two schemes: the other color scheme returns at the next scheduled time.	Opens Color Profiles settings.
	3D buildings can be displayed on the map. Use this switch to suppress them temporarily.	Opens 3D Settings.
GPS	Opens the GPS Data screen with satellite information, data coming from the GPS receiver.	No action.

4.1.9 GPS Data screen

Tap the following buttons:  , and then 

to open the GPS Data screen and to see the status of GPS reception.

Icon	Color	Name	Description
	Green	GPS position quality indicator	XSG2 has a connection to the GPS receiver and GPS position information is available in 3D: XSG2 can calculate both your horizontal and vertical GPS position.
	Yellow		XSG2 has a connection to the GPS receiver and GPS position information is available in 2D: only the horizontal position is calculated, XSG2 cannot calculate your vertical GPS position.
	Gray		XSG2 has a connection to the GPS receiver but GPS position information is not available.
	Red		XSG2 has no connection to the GPS receiver. Since the device has a built-in GPS receiver, this status should not appear under normal circumstances.
	Green, blinking	GPS connection quality indicator	XSG2 is connected to the GPS receiver.
	Yellow, blinking		XSG2 has no connection to the GPS receiver but it is still trying to establish a connection.
	Red, blinking		XSG2 has no connection to the GPS receiver and is not trying to establish a connection.
Sky view circle			The virtual sky shows the visible part of the sky above you, with your position as the center. The satellites are shown at their current positions. The GPS receives data from both the green and yellow satellites.
n/a	Coordinates		Your current GPS position in WGS84 format.
n/a	Status bar for the satellites		Dark bars are for the yellow and lit bars are for the green satellites. The more satellites your GPS tracks (the green ones), the better is your calculated position.

4.2 Find menu

Select the destination of your route. Tap the following buttons: 

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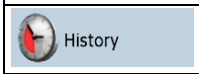
Button	Description	Reference
	If you know at least a part of the address, this is the quickest way to find the location.	page 22
	You can select your destination from the thousands of POIs included with XSG2 or from the ones you have previously created.	page **Error! Bookmark not defined.**
	The destinations that you have already entered in XSG2 are available in the History list.	page 29
	You can select your destination by entering its coordinates.	page 29
	You can select as your destination a location that you have already saved as a Favorite.	page **Error! Bookmark not defined.**

4.3 Route menu

Save, load and edit your routes. Tap the following buttons: 

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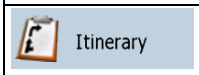
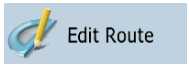
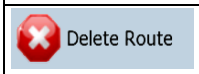
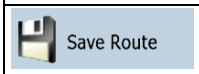
Button	Description	Reference
	Opens a screen with useful route data.	page **Error! Bookmark not defined.**
	You can browse the driving instructions that XSG2 follows during navigation. You can exclude maneuvers or streets to adjust the route to your preferences.	page **Error! Bookmark not defined.**
	You can modify the route: remove route points or change their order.	page **Error! Bookmark not defined.**
	Erase the active route with all its route points (start point, via points and destination).	page **Error! Bookmark not defined.**
	You can save the active route for later use.	page **Error! Bookmark not defined.**
	You can load a previously saved route for navigation.	page 33
	Opens the Route settings screen with controls to modify the vehicle, the road types used for route calculation, or the route calculation method.	page **Error! Bookmark not defined.**
	You can run a demonstration of the route at normal speed.	

4.4 Manage menu

You can manage the content that XSG2 stores. Tap the following buttons: 

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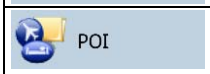
Button	Description	Reference
	Renaming or deleting saved routes	page **Error! Bookmark not**

Button	Description	Reference
		defined.
	Deleting History items	page **Error! Bookmark not defined.**
	Renaming or deleting Favorites	page 49
	Creating, updating or deleting POIs and POI Groups Modifying POI visibility settings	page **Error! Bookmark not defined.**

4.4.1 Manage Saved Routes

You can manage the previously saved routes. Tap the following buttons:  ,  ,  .

Button	Description
Button with the name of the saved route	Opens the selected route for editing.
	Deletes the selected route.
	Clears the list of saved routes.
	Moves between pages for additional list items.

4.4.2 Manage History

You can manage the list of locations you used lately. Tap the following buttons:  ,  , 
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Button	Description
	Deletes the selected item in the History.
	Deletes the entire History.
	Moves between pages for additional list items.

4.4.3 Manage POIs

You can manage your POIs, and set POI visibility for both your POIs and the ones that came with the product. Tap the following buttons:  ,  ,  .

Button / Icon	Description
Button with the name of the	Opens the list of the subgroups of this POI group. The new list

Button / Icon	Description
POI group	behaves the same as this one.
Button with the name and address of a POI item	Opens the selected POI for editing. Only the POIs you have created appear in this list.
Edit	Opens the selected POI group for editing.
My POI	Tap to filter the list to contain only the POIs that you saved.
All	Tap to see all POIs in the list.
New Group	Creates a new POI group at the given group level.
,	Moves between pages for additional list items.
	This POI group is not shown on the map.
	This POI group and all its subgroups are shown on the map.
	This POI group and some of its subgroups are shown on the map.
	This POI group contains POIs that you saved.

When a POI group is open for editing:

Button	Description
Off	Items in the POI group will not be shown on the map.
Close , Medium , ...	The distance buttons set the zoom level from which the items in the POI group will be shown on the map.
Same Visibility in Subgroups	Subgroups under the edited POI group will inherit the visibility settings of the POI group.
Button with the icon of the POI group	Tap this button to select a new icon for the POI group.
Remove	Deletes the edited POI group. You are only allowed to remove POI groups that you have created.

When a POI item is open for editing:

Button	Description
Button with the name of the POI	Tap this button to rename the POI.
Button with the icon of the POI	Tap this button to select a new icon for the POI.
	Tap this button to enter a telephone number for the POI.
	Tap this button to enter additional information for the POI.
Delete	Tap this button to delete the selected POI.
Change Group	Tap this button to move the POI to another POI group or subgroup.

4.4.4 Manage Favorites

You can manage the list of your Favorites. Tap the following buttons: 

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Button	Description
Button with the name of the Favorite	Opens the selected Favorite for editing.
	Deletes the selected item in the list of Favorites.
Clear All	Clears the list of Favorites.
 , 	Moves between pages for additional list items.

4.4.5 User Data Management

You can manage the data you have saved (Pins, POIs, Favorites, and History) and the settings you have made in the program. Tap the following buttons: 

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, User Data Management.

Button	Description
Remove Pins	Map locations can be marked with Pins using the  button in the Cursor menu. Tap this button to remove all your Pins from the map.
Back up User Data	All user data and the current settings will be saved on the inserted memory card. There is always one backup file. If you perform a backup later, the previous backup will be overwritten with the new information.
Restore User Data	All user data and settings will be overwritten with the information stored in the backup file. Data and settings created after the latest backup will be lost.
Delete User Data	All user data will be deleted, and settings will return to their factory defaults.
Reset All Settings	All settings will return to their factory defaults, but no user data will be deleted.

4.5 Settings menu

You can configure the program settings, and modify the behavior of XSG2. Tap the following buttons: 

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.The Settings menu has two pages of submenus. Tap  to access the other options.

Button	Description	Reference
	You can select the appearance and content of the Map screen.	page **Error! Bookmark not defined.**

Button	Description	Reference
	These settings determine how routes will be calculated.	page **Error! Bookmark not defined.**
	You can adjust the volume of application sounds.	
	You can control how XSG2 behaves during navigation.	page 51
	These settings allow you to select local language, measurement units, time and date settings and formats, as well as to choose the voice guidance profile you prefer.	page 52
	You can modify the look and behavior of the Menu screens.	page **Error! Bookmark not defined.**
	You can enable speed warning.	page 53
	This screen has no navigation feature. It contains licensing, safety, map revisions and customer support information	

4.5.1 Map Screen settings

You can fine-tune the appearance and content of the Map screen. Tap the following buttons:  ,  ,  .

Button	Description
3D Settings (Premium Option)	Use 3D settings to determine which of the present 3D objects are shown on the map, and adjust the level of 3D visual detail. The options are as follows: • Landmarks: Landmarks are 3D artistic or block representations of prominent or well-known objects. 3D landmarks are only available in selected cities and countries. • Elevated Roads: Complex intersections and vertically isolated roads (such as overpasses or underground tunnels) are displayed in 3D. • Building Visibility: Full 3D city building data that represents actual building size and position on the map. Building data is limited to the city centers of major cities in the US and Europe. • Terrain Detail Level: 3D terrain map data shows changes in terrain, elevations or depressions in the land when you view the map, and use it to plot the route map in 3D when you navigate.
Color Profiles	XSG2 is able to show the map and the menus in different colors during the day and during the night. Select the color profiles to be used in each mode, and select the automatic or manual switching between the daytime and night color profiles.
Elevation on 2D Map	2D maps can also display 3D information. These top-down maps can display elevation by colors and shading.
Street Names During Navigation	Street names and POI icons can be disturbing on the map during navigation. With this switch you can suppress these map elements when XSG2 is following your position on the map. If you move the map, both the street names and POI icons reappear immediately.
Lane Information	Some maps contain lane information to help you position your car in the upcoming intersection. This setting tells XSG2 whether to display

Button	Description
	this information at the top or at the bottom of the map.

4.5.2 Navigation settings

To control how XSG2 behaves during navigation. Tap the following buttons: 

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Button	Description
Keep Position on Road	This feature allows car drivers to always correct GPS position errors by matching the vehicle position to the road network. By turning off this feature you also turn off the GPS position error filtering. The position shown on the map will be subject to all position errors and position fluctuations.
Off-route Recalculation	This switch tells XSG2 whether to automatically recalculate the route when you deviate from it. If this feature is turned off, you need to initiate route recalculation manually otherwise navigation will be stopped until you return to the originally recommended route. Setting a point other than the current GPS position as the start point of the active route will automatically disable this feature.
Restore Lock-to-Position	If you have moved or rotated the map during navigation, this feature moves the map back to your current GPS position and re-enables automatic map rotation after the given period of inactivity.
Automatic Overview	This feature switches the map view to Overview mode when the next route event is at a distance. Overview is a zoomed out 2D view to let you see the surrounding area. You have the following controls for Automatic Overview: • Turn Distance for Overview: The map view will be switched to Overview mode if the next route event is at least as far as this value. • Default Zoom Level: Overview mode will appear with this zoom level. You can scale the map in Overview mode but next time Overview appears again, this zoom level will be applied.

4.5.3 Route Planning options

These settings determine how routes will be calculated. Tap the following buttons: 

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Button	Description
Road Types Used for Route Planning	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 Route Information screen, and the part of the route not matching your preference will be displayed in a different color on the map.
Route Calculation Method	You can choose from different route types. The routing method can also be chosen while creating the route: when the destination is selected, tap 

in the Cursor menu. |

Road Types Used for Route Planning:

Type	Description
Freeways	You might need to avoid freeways when you are driving a slow car or you are

Type	Description
	towing another vehicle.
Unpaved roads	XSG2 excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.
Toll roads	By default XSG2 includes toll roads (pay roads where there is a per-use charge) in the routes. If you disable toll roads, XSG2 plans the best toll-free route.
Charge roads	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.
Permit needed	You might need a permit or permission from the owners to use certain roads or to enter certain areas. XSG2 excludes these roads from the route calculation by default.
Ferries	XSG2 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.
Cross-border planning	In some cases the route calculated according to your other navigation and route preferences would lead through another country. If you wish to always stay within the same country, turn this option off.

Route Calculation Method types:

Option	Description
Fast	Gives the quickest possible 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 between the route points. Usually practical for slow vehicles.
Economical	Combines the benefits of Fast and Short: XSG2 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. With this option, you can make XSG2 to take, for example, the freeway instead of series of smaller roads or streets.

4.5.4 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 voice guidance profile you prefer. Tap the following buttons: 

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Button	Description
Program Language	This button displays the current written language of the XSG2 user interface. By tapping the button, you can select a new language from the list of available languages. The application will restart if you change this setting; you are asked to confirm this.
Voice Profile	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 OK when you have selected the new spoken language.
Units	You can set the distance units to be used by the program. XSG2 may not support all the listed units in some voice guidance languages. If you select a measurement unit not supported by the chosen voice guidance language, a warning message will appear.
Set Date & Time Format	You can set the date and time format. Various international formats

Button	Description
	are available.
Time and Time Zone Settings	You can access time and time zone settings. XSG2 helps you with correcting the device time to the ever accurate GPS time. XSG2 can also help you set the time zone based on your current GPS position.

Time and Time Zone Settings:

Button	Description
Auto Time Correction to GPS	Use this feature to synchronize the clock of your device to the highly accurate time provided by the GPS receiver.
Use Auto Time Zone	Use this feature to synchronize the time zone of the clock of your device to the time zone based on your current GPS position. This is useful if you travel abroad.
Set Time Zone	Set time zone manually if you do not want to synchronize the time zone automatically. This allows you to use Auto Time Correction and apply a time zone offset to obtain the desired time.
Compare GPS and device times	The current time of the GPS receiver and the device clock are displayed. Please note that the GPS clock is only available with GPS reception. This allows you to check whether any correction is needed.

4.5.5 Menu settings

You can modify the look and behavior of the Menu screens. Tap the following buttons: 

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Button	Description
Background	You can choose the image to be used as the menu background image.

4.5.7 Warning settings

You can enable speed warning. Tap the following buttons: 

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Button	Description
Warn When Speeding	Maps may contain information about the speed limits of the road segments. XSG2 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. This setting lets you decide whether you wish to receive the warnings. You can set the relative speeding level at which the application warns you (100% represents the current speed limit): • In Built-up Areas: in cities and towns • Elsewhere: at all other locations There are two types of warnings. You can turn them on or off independently: • Audible Warning: A voice message is played using the selected voice guidance profile. • Visible Warning: 

5 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. You can save and load routes in XSG2, but only one route can be active at any given time, and it is always active until you delete it, reach your destination or you quit XSG2. See also: Route.

City Center

The City Center is not the geometric center of the city 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 an important intersection.

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

XSG2 works with digital maps which are not simply the computerized versions of traditional paper maps.

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 turn 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 in 2D map view mode and in Overview mode. See also: Track-up map orientation.

Overview mode

You can instruct XSG2 to automatically switch to Overview mode if the next route event is in a distance. In Overview mode the map is shown in 2D but scaled down to a predefined zoom level. When you approach the next route event, the previous 2D or 3D map view returns automatically.

Route

A series of destinations to be reached one after the other. A simple route contains one start point and only one destination. Multi-point routes contain one or more via points (intermediate destinations). The last route point is the final destination and the route is cut into different legs (from one destination to the next).

Scheme

XSG2 comes with different color schemes for the map for daytime or night use. Schemes are custom graphic settings for the map 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. XSG2 uses them when it switches from day to night and back.

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. See also: North-up map orientation.

6 End User License Agreement

1 The contracting parties

1.1 This Agreement has been entered into by and between Nav N Go Kft. (registered seat: 23 Bérc utca, H-1016 Budapest, Hungary; Company reg.no.: 01-09-891838) as Licensor (hereinafter: Licensor) and You as the User (hereinafter: User; the User and the Licensor jointly referred to as: Parties) in subject of the use of the software product specified in this Agreement.

2 Conclusion of the Agreement

2.1 The Parties hereby acknowledge that this Agreement shall be concluded by implicit conduct of the Parties without signing the Agreement.

2.2 The User hereby acknowledges that following the lawful acquisition of the software product constituting the object of this Agreement (Section 4), any degree of use, installation into a computer or other hardware, installation of such hardware into a vehicle, pressing of the “Accept” button displayed by the software during installation or use (hereinafter referred to as Use) shall mean that the User has accepted the terms and conditions of this Agreement as legally binding.

2.3 This Agreement shall by no means authorise use of the software product by those persons having unlawfully acquired the software product or having unlawfully installed it on a computer or in a vehicle.

3 Relevant laws and regulations

3.1 To all issues not regulated by this Agreement, the laws of the Republic of Hungary, with specific reference to Act IV of 1959 on the Civil Code and to Act LXXVI of 1999 on Copyrights shall apply.

3.2 The original language version of this Agreement is the Hungarian version. This Agreement has versions in other languages as well. In case of dispute the Hungarian version shall prevail.

4 Object of the Agreement

4.1 The object of this Agreement shall be the navigation guidance software product of Licensor (hereinafter referred to as the Software Product).

4.2 The Software Product shall include the operating computer program, its complete documentation, the map database pertaining thereto and any third-party content and XSG2 accessible through the Software Product (hereinafter: Database).

4.3 Any form of display, storage, coding, including printed, electronic or graphic display, storage, source or object code, or any other as yet undefined form of display, storage, or coding, or any medium thereof shall be deemed parts of the Software Product.

4.4 Error corrections, additions, updates used by the User following the conclusion of this Agreement shall also be deemed parts of the Software Product.

5 Rights under copyright

5.1 Unless otherwise provided by law or contractual provisions, the Licensor is the sole and exclusive owner of all material copyrights vested in the Software Product.

5.2 Copyrights extend to the whole Software Product and to its parts separately as well.

5.3 The owner(s) of the copyrights of the Database forming part of the Software Product is (are) the natural person(s) or corporate entity(ies) listed in the Appendix to this Agreement or in the “About” menu item of the operating computer program (hereinafter referred to as Database Owner). The user's manual of the Software Product includes the name of the menu option where all the owners of the Database items are listed. The Licensor hereby states that it has obtained sufficient usage and representation rights from the Database owners in order to utilize the Database, to offer it for utilization and to transfer it for utilization as set forth in this Agreement.

5.4 Pursuant to this Agreement, all rights vested in the Software Product shall remain in the ownership of the Licensor, except for those to which the User is entitled under law or by virtue of this Agreement.

6 Rights of the User

6.1 The User is entitled to install the Software Product into one hardware device (desktop, handheld, portable computer, navigation device), and to run and use one copy of the Software Product or a preinstalled copy of the Software Product thereon.

6.2 The User is entitled to make one backup copy of the Software Product. However, if the Software Product operates after installation without the use of the original media copy, then the original media copy shall be deemed to be a backup copy. In all other cases, the User is only entitled to use the backup copy if the original media copy of the Software Product has been ascertainably and unequivocally rendered unsuitable for its lawful and intended use.

7 Limitations of use

7.1 The User is not entitled

7.1.1 to duplicate the Software Product (to make a copy thereof);

7.1.2 to lease, rent or lend it or to transfer it to a third person for any reason;

7.1.3 to translate the Software Product (including translation (compilation) to other programming languages);

7.1.4 to decompile the Software Product;

7.1.5 to evade the protection of the Software Product or to modify, circumvent or obviate such protection through technological or by any other means;

7.1.6 to modify, extend, transform the Software Product (in whole or in part), to separate it into parts, combine it with other products, install it in other products, utilize it in other products, not even for the purpose of achieving interoperability with other devices;

7.1.7 apart from using the computer program, to obtain information from the Database as a part of the Software Product, to decompile the Database, to use, copy, modify, extend, transform the Database in whole or in part or the group of data stored therein, or to install it in other products or otherwise, utilize it in other products or to transfer it, not even with the aim of achieving interoperability with other products.

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9.1.1 seek judicial recognition of this breach;

9.1.2 demand that the breach cease and order the person in breach to refrain from continuing such actions;

9.1.3 demand that the person under breach give proper compensation (even by way of publicity at the expense of the person in breach);

9.1.4 claim the return of the increase of assets due to the breach;

9.1.5 demand the cease of the wrongful action and, demand restitution to its state before the breach was committed at the expense of the person in breach, and may demand the destruction of instruments and materials used to commit the breach as well as of the products created by the breach;

9.1.6 claim for damages.

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9.5 The parties hereby agree that - depending on the nature of the dispute - either the Pest Central District Court (Pesti Központi Kerületi Bíróság) or the Metropolitan Court of Budapest (Fővárosi Bíróság) will have exclusive jurisdiction to rule on any disputes arising in connection with this Agreement.

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.

Table of Contents

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:

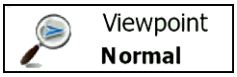
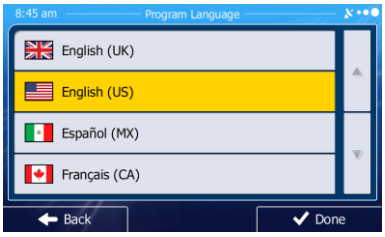
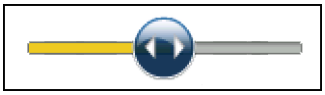
1. Select the user language. Options are English, Spanish and French. Tap Done.
2. Read the End User License Agreement. If you agree to the terms tap Accept to continue.
3. The Configuration Wizard starts. Tap Next to continue.
4. Select the language and spoken voice used for voice guidance messages. 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.

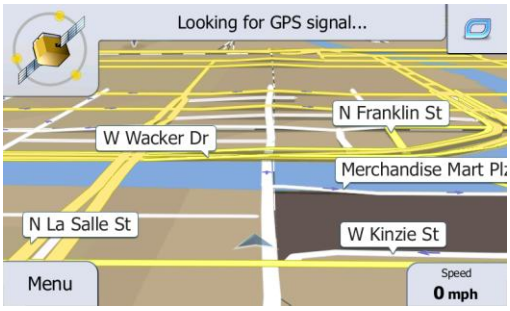
To enlarge this small map and open the Map screen, tap Show Map.

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.

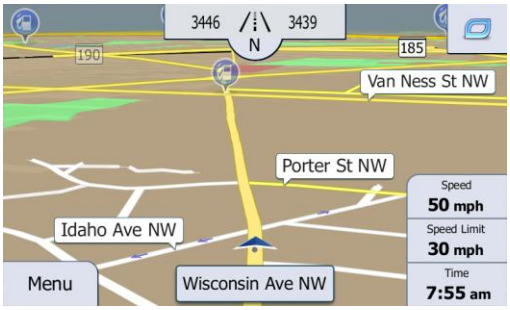


There are icon buttons and data fields on screen to help you navigate. During navigation, the screen shows required route information.

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.

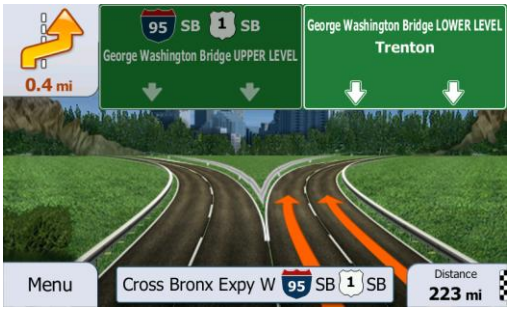
Where additional information is available, signposts substitute arrows. Signposts are displayed at the top of the map. The color and style of the signposts are similar to the real ones you can see above road or by the roadside. They show the available destinations and the number of the road the lane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

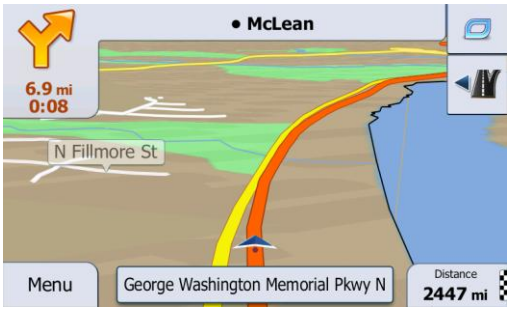
If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows. Signposts can also be present if information is available.



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

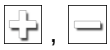
Xite Navigation shows the route in the following way:

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

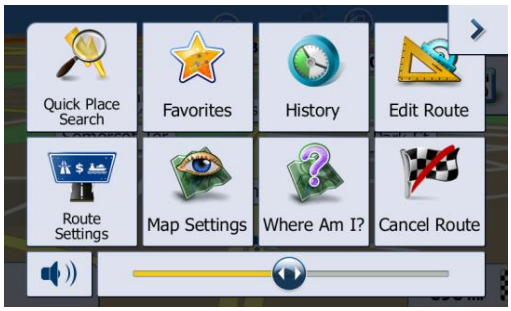
Tap the map anywhere to browse it during navigation. The map stops following the current position (the Vehimarker, a blue arrow by default, is not locked in a fix position on the screen any more) and control buttons appear to help you modify the map view.

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:

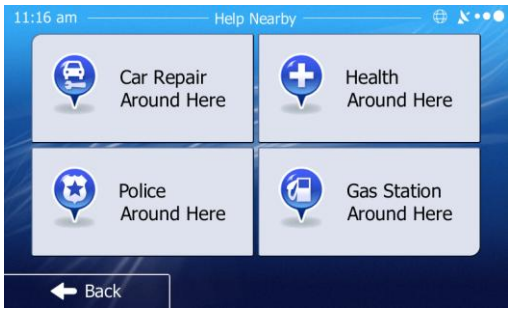
Tap 

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).

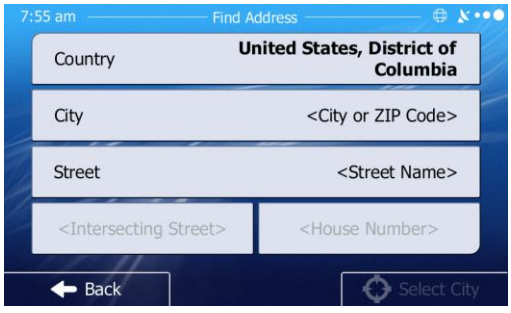
3.1.1 Entering an address or a part of the address

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

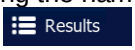
- along the recommended route if it exists or
- around your current location if there is no destination given.

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 

     , 

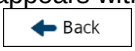
     and then tap 

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 

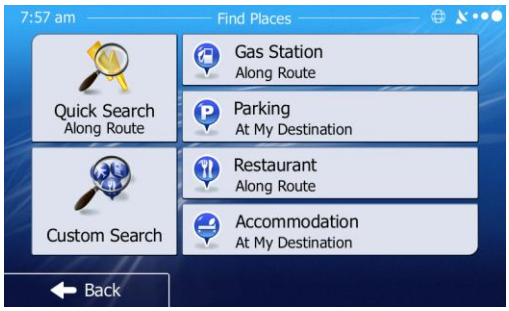
   to select a different destination.
8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap 

   to modify route parameters, or tap 

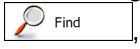
   and start your journey.

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.

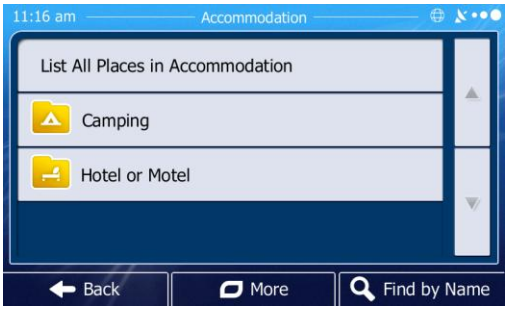
3.1.2.3 Searching for a POI by category

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.

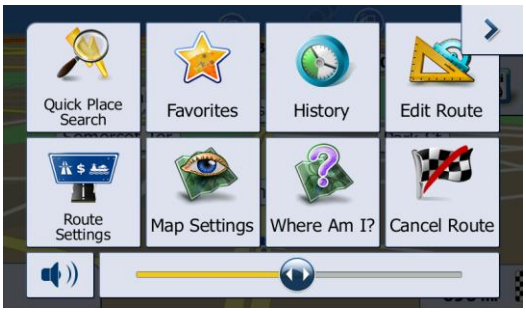
1. Follow Steps 1-5 from above
2. Select one of the main POI categories (e.g. Accommodation) to search in or tap Find by Name to search among all POIs.
3. Select one of the POI subcategories (e.g. Hotel or Motel) to search in or tap Find by Name to search in the selected Place category.
4. Using the 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?'

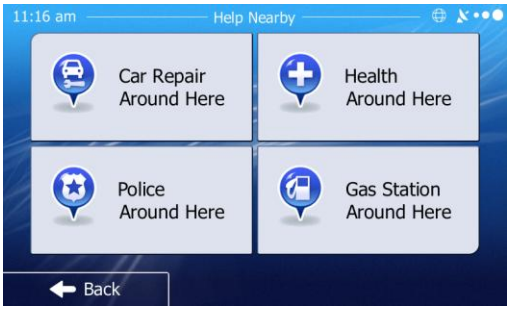
You can quickly search for nearby assistance from the 'Where Am I?' screen.

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.

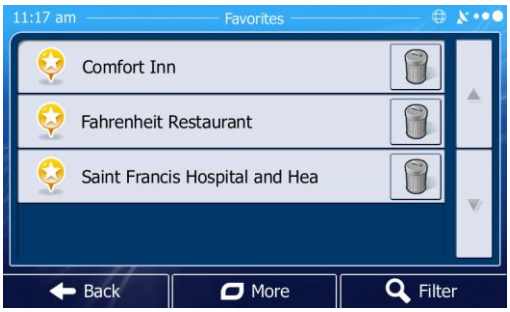
3.1.3 Selecting a map location as the destination

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.

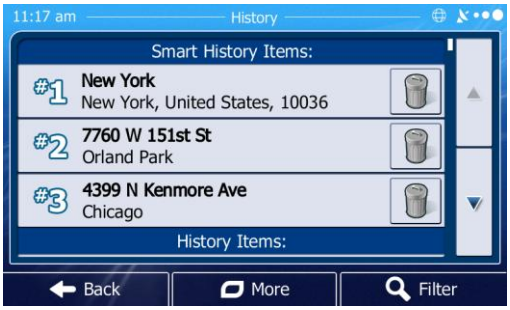


3.1.5 Selecting one of the most likely destinations (Smart History)

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.

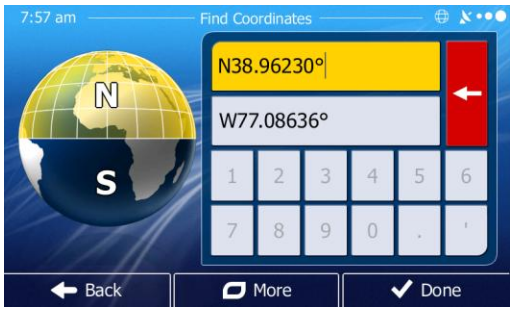
3.1.6 Selecting a recent destination from the History



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

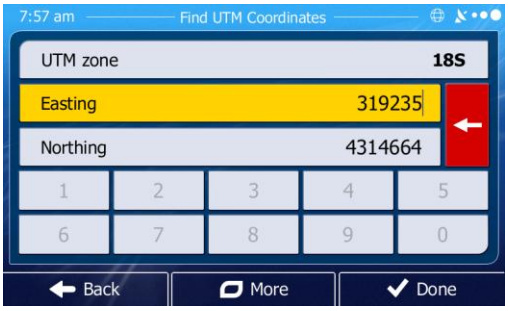


You can also select a destination by entering its coordinate.

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.

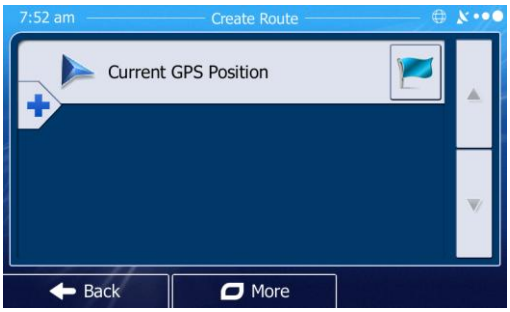
6. When finished, tap Done.



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.

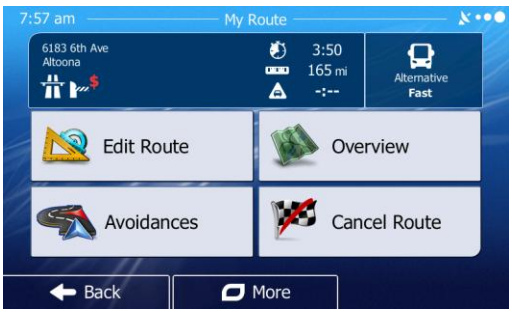
1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap Create Route.
4. There is only one line in the list of route points, the start point of the route, normally the current GPS position.
5. Tap ✚ to select the destination.
6. The 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 

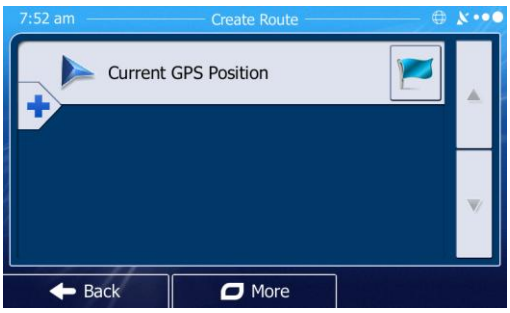
to add the newly selected location as an intermediate destination to your route. The other destinations of the route remain intact.
Note: the new waypoint is placed among destinations to keep the route optimal. To decide where a waypoint is to appear, use the Edit Route feature.
- Tap 

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

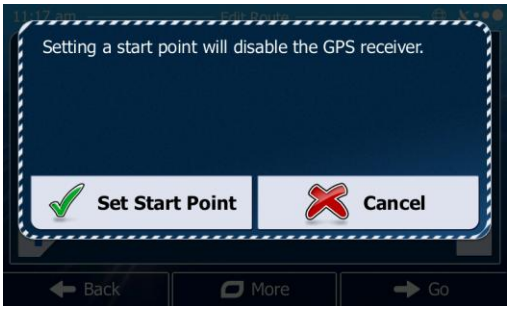
For normal navigation, all routes are planned from the current position. In order to check future routes, simulate them or see their length in time and distance, you can turn off the GPS receiver. Then you can set the starting point of the route to a different location than the current GPS position.

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 

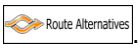
and then tap 

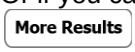
. The active route is deleted with all its waypoints.

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:

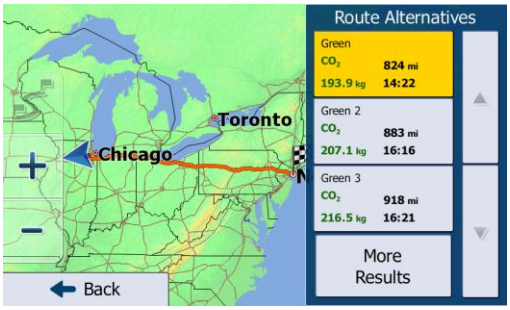
1. Select a destination as explained earlier, and get to the route confirmation screen.
2. Tap 

.
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 

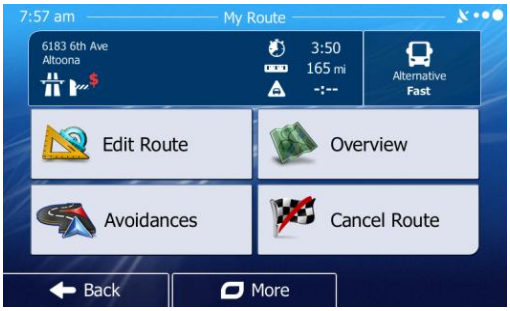
and scroll down for routes with different routing methods.
6. Select one of the route alternatives and tap 

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

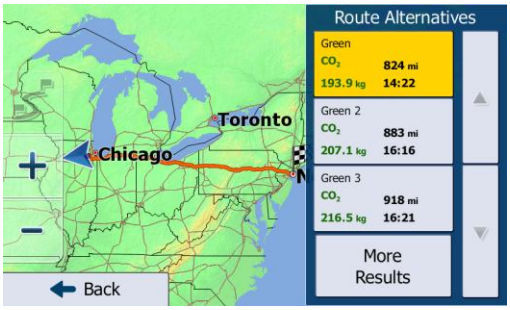


3.4.7 Checking route alternatives for an existing route

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:



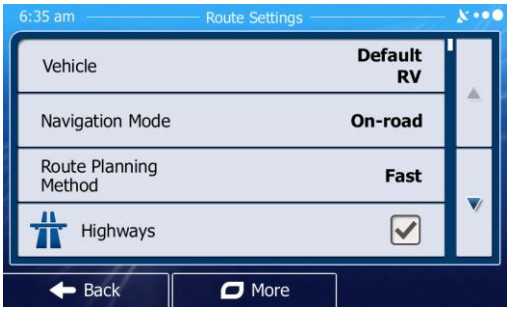
1. If you are on the Map screen, tap Menu to return to the Navigation menu.
2. In the Navigation menu, tap My Route.
3. Tap More.
4. Tap Route Alternatives.



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

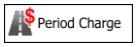
To recalculate the active route with different road type preferences, do as follows. These changes can also be made in Settings (page 48).

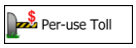
1. On the Map screen, tap  and then tap 

.

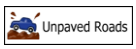
2. Tap any of the listed road types to modify the route. If needed, scroll the list for all road types. You have the following options (their order depends on the selected vehicle type):

   - 

 - 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.
   - 

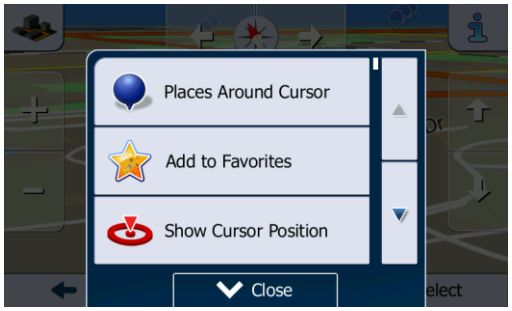
 - Xite Navigation excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.
   - 

 - 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).

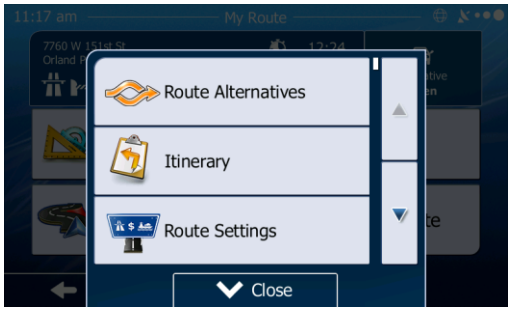
1. Browse the map and select a location. The red Cursor appears there.
2. Tap More.
3. Scroll down the list and tap Add Alert Point.
4. On the newly opened screen, select the type of the Alert Point, the direction from which you expect the alert, and (if applicable) the speed limit for this Alert Point.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

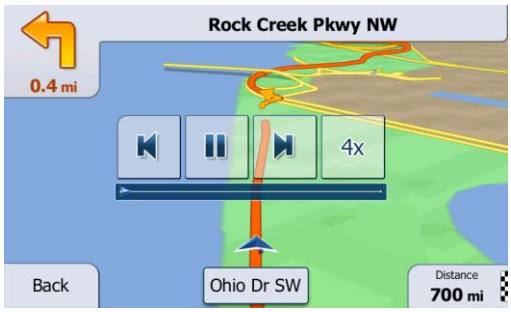
1. Browse the map and select the Alert Point to edit. The red circle appears around the Alert Point.
2. Tap More.
3. Scroll down the list and tap Edit Alert Point.
4. On the newly opened screen, modify the type of the Alert Point, the direction from which you expect the alert, or (if applicable) the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

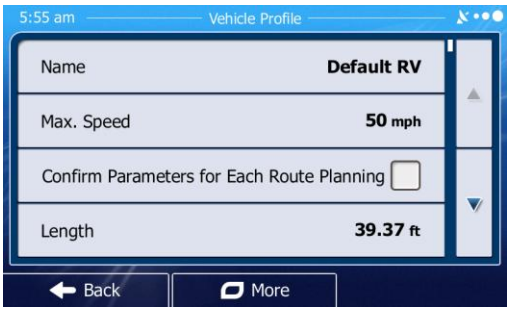
5.1 Setting up vehicle parameters

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.

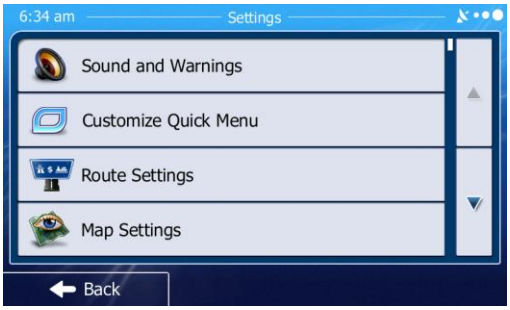
The current time is displayed in the top left corner.
In the top right corner, the GPS reception quality icon shows the current accuracy of the position information. Please see chart on following page:

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.

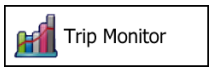
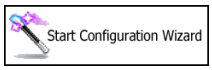
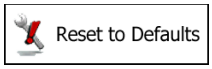
6.2 Settings menu

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.

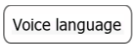
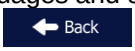
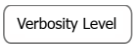


Button	Description
Sound and Warnings	Adjust the sound volume, mute your device or change the voice guidance language. In addition, you can enable and set up different warnings and alerts.
Customize Quick Menu	The content of the Quick menu (page 16) is fully customizable. Tap the button you want to change, and select its new function from the list.
Route Settings	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.
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, 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).
Visual Guidance	Adjust how the software helps you navigate with different kinds of route related information on the Map screen.
Display	Display related settings include menu animations and separate skins for daytime and night use.
Regional	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.

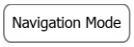
6.2.2 Customize Quick Menu

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

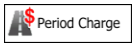
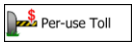
These settings determine how routes will be calculated.

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).

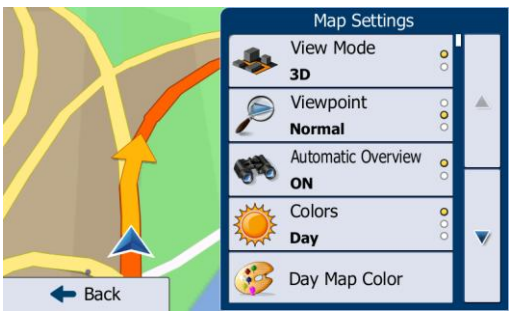
Route Planning Method types:

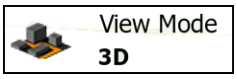
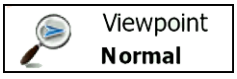
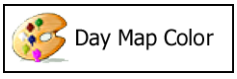
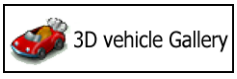
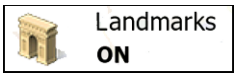
Button	Description
Fast	Gives a quick route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.
Short	Gives a short route to minimize the distance to travel. It can be practical for slow vehicles. Searching for a short route regardless of the 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.

Data Fields	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.
Motorway 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 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.
Facility Types	Select the service types displayed for the freeway exits. Choose from the POI categories.
Signpost	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.
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. You can turn this feature on or let the map be displayed for the whole route.
Route Progress Bar	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.

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

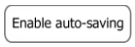
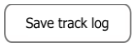
6.2.7 Regional settings

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
Units and Formats	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.
Time Zone	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.