



# Navigation menu

## Units & Time

You can specify units of measure and adjust the time as displayed on your Navigator.

1. Touch > **Setup** > .
2. Touch the desired items.



**Distance Unit** :

- : Displays and announces in kilometers.
- : Displays and announces in miles.

**Adjust Hour** :

Displays the current local time based on GPS time in the time zone selected on your device.

**Adjust for Daylight Savings** :

Automatically adjusts the time when daylight saving time is in use.

### **Note**

It is shown only in some time zones, which countries or regions adopt the daylight saving times.

## Language

1. Touch > **Setup** > .
2. Touch the desired items.



**Select Language Text** :

You can select the language text.

**Select Voice Guidance** :

You can select voice travel messages and driving directions. You can hear the voice of language through speakers while driving.

3. Touch .

## Guidance

You can select the types of voice and visual notifications that you would like to use while navigating as follows.

1. Touch > **Setup** > .
2. Touch the desired items.



**Speed Warning** :

Warns you when your car exceeds the speed limit. This prompt is not active by default.

**Route Recalculation** :

Activated when the Navigator recalculates a new route. This prompt is not active by default.

### **Note**

Languages noted with (Spoken Streets) are synthesized speeches, which have an extensive vocabulary and pronounce the street names as you approach turns, the pre recorded voices have a limited vocabulary.

**Unreliable GPS Signal** :

Warns that the GPS signal is too low and unreliable for navigation. This prompt is active by default.

**Travelling to...** :

Reminder at the start of each journey. This prompt is active by default.

**Say Road** :

You can set the type of the guidance name that you will use to navigate the route.

3. Touch .



## Navigation menu

### GPS Status

The Navigator uses the GPS receiver to pinpoint your location. GPS signals are automatically acquired and your vehicle's location and position are constantly updated. The GPS receiver may take a few minutes to find its initial location. For best results, ensure that the GPS receiver has a clear vertical view of the sky.

1. Touch  > Setup > .



The following GPS information is displayed:

**Longitude:** The angular distance east or west on the earth's surface.


**Latitude:** The location of a place north or south on the earth's surface.

**Speed:** The rate of movement, as expressed by kilometers or miles per hour.

**Altitude:** The height above sea level.

**Number of Satellites:** You can check reception signals from the GPS satellite.

#### **Note**

If GPS signal can not be detected for a long time, please restart whole navigation system by pressing .

### GPS not found

When you first start the navigator you will hear the message "Signal too low". This message means that your navigation device hasn't yet located a reliable GPS signal. Check that your device is connected to the cigarette lighter and has a clear view of the sky.

The "GPS not found" message means that there is no GPS antenna or the antenna is not properly installed.

Please check that:

- The GPS antenna has a clear view of the sky for uninterrupted GPS reception. The navigator cannot calculate the route if there is no GPS reception (for example, in a tunnel).
- The navigation device is charged or connected to the cigarette lighter.

### Map Setup

You can tap the "Map Setup" button to customize your map display.

1. Touch  > Setup > .

2. Touch the desired items.



#### **Use Automatic Zoom :**

When this option is selected, the zoom is speed dependent. The map zooms out at higher speeds, displaying a larger map area, and zooms in at slower speeds, displaying a smaller map area.

If you manually change the zoom, the Automatic Zoom returns to a system defined zoom level after several seconds of inactivity.

#### **Use Larger Labels :**

This option increases the size of street names to make the text easier to read.

3. Touch .



# Navigation menu

## Tutorial

When you first start the Navigator, a message box appears prompting you to open the Navigator Guided Tour program.

The Guided Tour is an excellent way of becoming familiar with the different navigation features available. You can also start the Navigator Guided Tour any time, by touching the "Tutorial" button from the "Extras" menu.

1. Touch > **Setup** > **More** > .
2. Touch the desired items.



## Help

You can display Navigator technical support information.

1. Touch > **Setup** > **More** > .



## Start Demo

This lets the Navigator display a simulated route. Many of the navigation features are disabled when the Demo is running.

1. Touch > **Setup** > **More** > .
2. Touch > to end the Demo.

### Note

The demo route is set, and depending on the current map data, the demo function may differ somewhat from the map data.

## Select Map

This feature lets you change the currently selected map to another map saved on built-in memory.

1. Touch > **Setup** > **More** > .



You can touch the "Select Map" button to display the maps saved on your built in memory. The Select Map screen displays map details and version numbers. The map currently used appears at the top of the list.

**Refresh**: Lets you refresh the screen when a new memory card is inserted into the device.

**Delete**: Lets you permanently remove a selected map.

### Note

You cannot delete the current map. Select lets you designate a selected map as the current map.

## Initialise

1. Touch > **Setup** > **More** > .



### Clear Memory :

You can delete all list from the memory.

### Factory Settings :

You can set all the function to their factory settings.

2. Touch **Yes** .

# Music player

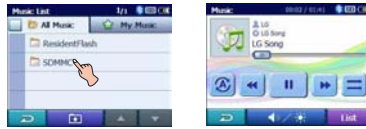
## Playing music

### Playing the files in "All Music" folder

1. Touch **Media Player** > **Music**.  
The "Music List" screen appears.  
There are two kinds of music list: All Music, My Music



2. Touch the folder or file you want to play.

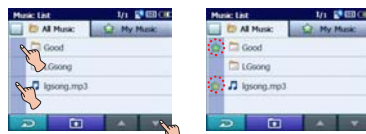


### Playing the files in "My Music" folder

1. Touch **List** during playback.  
The **Music** mark indicates playing music file.



2. Touch **Music** in the left position of the screen.  
The **Music** mark appears and the file you touch is stored in "My Music" folder.



To cancel it, touch **Music**.

3. Touch **My Music** and then touch the desired file to play music in "My Music" folder.



- Touch **Previous/Next** on the screen to move to the previous/next page.
- Touch **Up** on the screen to move to the upper folder.
- Touch **Back** on the screen to move to the previous screen.

### Note



If there is no supported file, an error message is displayed on the screen and the next music file will be played.






## Music player


### Pause

1. Touch  during playback.
2. To return to playback, touch  again.



### Skip the next music

Touch briefly  to move to the next music.



### Skip the previous music


Touch briefly  to move to the previous music.


### Search

Touch and hold the  or  during playback and then release at the point you want. You can use the slide bar to search for the music.


### Repeat


You can set the repeat playback mode by touching  or .


: Plays repeatedly the current selected file.

: Plays repeatedly all music files in your device.


### Shuffle

You can set the random playback mode by touching  or .


: Returns to the normal playback.

: Plays randomly all the files in your device.







### Viewing the information of music file

1. Touch  during playback.  
The information of music file appears.  
(If you touch the information screen, it moves to the previous screen.)





If there is no information of music file,  appears.

### Adjusting the Volume/Brightness

1. Touch  during playback.  
The "Handy Setup" screen appears.
2. Set the volume () and brightness () by touching  /  and then touch .

### Mute

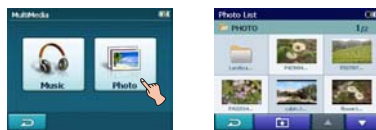
Touch  on the "Handy Setup" screen to mute the sound. To cancel it, touch  again.



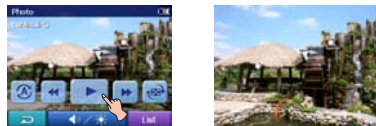
## Photo viewer

### Viewing photo

1. Turn the unit on.  
The map screen appears.
2. Touch > **Media Player** > .  
The "Photo List" screen appears.

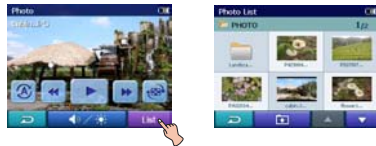


3. Touch the folder or file you want to play and then touch .  
The slide show starts automatically.



### Browse an image

1. Touch the screen during slide show and then touch .



2. Touch the folder icon to display its sub-folders and thumbnail images.



- Touch / on the screen to move to the previous/next page.

- Touch on the screen to move to the upper folder.
- Touch on the screen to move to the previous screen.

### Pause

1. Touch the screen during slide show.
2. Touch to pause slide show.
3. To return to slide show, touch again.

### Skip to the next photo

Touch to move to the next photo in the selected folder.

### Skip to the previous photo

Touch to move to the previous photo in the selected folder.

### Repeat

You can set the repeat playback mode by touching or .

: Plays repeatedly all photo files in your device.

: Plays repeatedly all the photos within folder.

### Rotation

Press repeatedly to rotate the photo clockwise.

### Adjusting the Volume/Brightness

1. Touch during playback.  
The "Handy Setup" screen appears.
2. Set the volume () and brightness () by touching / and then touch .



## Bluetooth (Optional)

### Bluetooth wireless technology

If you have a phone with *Bluetooth* wireless technology and it is compatible with your device (Please refer to the list of available phones on the [page 48-50](#)), you can use the following features in your device: Hands-free Calling, Audio streaming for mp3, and Phonebook sync and edit.

Hands free feature is to make or receive a phone call using microphone and speaker built in your device. Audio streaming feature is to enable to listen to music (especially, mp3 file) in your stereo headset and to enable to handle playing music such as play, pause, or skip. Lastly, phonebook sync and edit feature is to transfer your phonebook in your phone to your device, and to add and edit new phone numbers on your device. These features on your device are only available if your phone supports these features using *Bluetooth* wireless technology. To use these features, you must connect your phone with your device. You may initiate this connection from your phone or from your device. Please refer to phone's guidebook for more information.

### Connecting your unit and bluetooth phone

#### To connect using the unit settings

1. Press POWER (⏻) briefly in power on status. The "Handy Setup" screen appears.



Map/Photo mode



Music mode

2. Touch **Hands Free**.
3. Touch **Settings**.



4. Touch **Search**.  
The "Searching for available devices." pop-up screen appears on the screen.




It will take about 30-60 seconds, to continue the process.

To cancel, touch **Stop**.

5. Touch a bluetooth phone you desire from the "Search Results" screen.  
The "Please enter the below PIN code in your phone" pop-up screen appears.



6. Input the PIN code (0000) in your phone when the pop-up screen is displayed on the screen.

When it is successfully connected, the  mark is displayed in the "Handsfree - available devices" screen.



When it is not connected, the connection failure message appears.

#### Note

Before connecting, check the PIN code settings. Refer to "Setting the Bluetooth" on the [page 36](#).



## Bluetooth (Optional)

### To connect using the phone settings

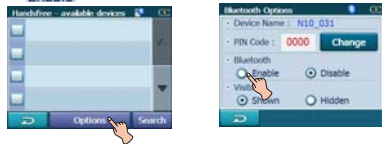
Your phone's Bluetooth feature may be set to off by default. To use the Bluetooth feature, Bluetooth must be turned on in your phone. Refer to your phone's user guide.

1. Enable the phone's Bluetooth component. This might be in a menu called Settings, Bluetooth, Connections, or Hands-free.
2. Initiate a search for Bluetooth devices. These settings might be located in a menu called Bluetooth, Connections, or Hands-free.
3. Select the your device from the list of phone.
4. Input the PIN code (0000) in your phone. When it is successfully connected, the  mark is displayed in the "Handsfree - available devices" screen.

### Setting the Bluetooth

You must select **Enable** to connect successfully your unit and bluetooth phone.

1. Touch **Options** in the "Handsfree - available devices" screen. And then touch **Enable**.



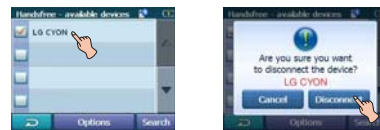
2. Check the PIN code. Change the PIN code using the number buttons if you want to change the PIN code. And then touch **OK**.



3. If the visibility option has set as **Hidden**. Other Bluetooth devices can't find your device.

### Disconnecting/Deleting/Connect-ing again the bluetooth phone

1. Touch the connected phone. And then touch **Disconnect**.



Touch **OK**. Your phone is disconnected and the  mark disappears.



2. Touch the disconnected phone again to connect again or delete your phone.



When you touch **Connect**, the disconnected phone is connected again to the unit. The  mark appears again.



When you touch **Delete**, the disconnected phone is deleted.



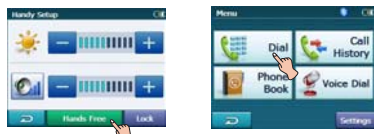


# Bluetooth (Optional)

## Making a call with phone number

Connect your unit and bluetooth phone before you make a call.

1. Press POWER (⏻) briefly. And then touch **Hands Free** > **Dial**.



2. Input the phone number you want to call, by touching the number buttons. And then touch **Send**.



### Note

- If you make a mistake while dialing, touch **←** to erase one digit at a time.
- Touch **Save** if you want to store the phone number. It is stored in the phone book.

3. Touch **End** to finish the telephone conversations.



If you want to store the phone number, touch **Save**, then input the name using key board. And then touch **OK** and it is stored in the phone book.

Touch **Redial** if you want to make a call again.

If there is not any touch for about 10 seconds, the screen moves to the "MENU" screen.

## Storing the phone number

1. Input the phone number in the "Dial" screen. And then touch **Save**.



2. Input the name. And then touch **OK**. It is stored in the phone book.



## Adjusting the Volume/Microphone level

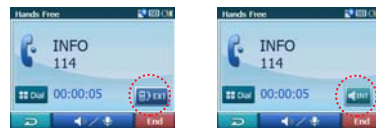
1. Touch **Volume** / **Microphone** during a call. The "Volume & Microphone" screen appears.
2. Set the volume (🔊) and microphone level (🎤) by touching **-** / **+** and then touch **OK**.

### Note

- Touch **🔊** to cut the microphone sound. To cancel it, touch **🎤** again.
- If there is not any touch for about 5 seconds, the screen moves to the previous screen.

## Switching the sound path during a call

You can hear sound through the speaker of unit or phone by touching **🔊** / **📞**.



### Note

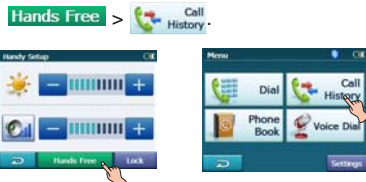
If you want to send the touch tones, touch **📞**.

# Bluetooth (Optional)

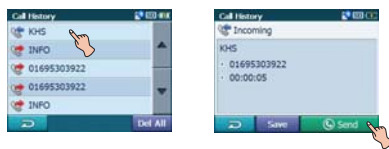
## Call History

Your unit keeps a record of your recently received and dialling calls.

1. Press POWER (⏻) briefly. And then touch

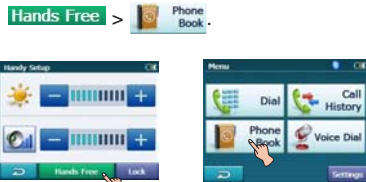


2. Touch the list you want to call. And then touch **Send**.

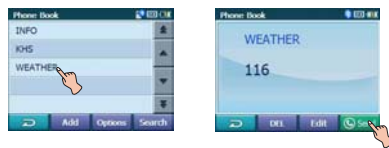


## Using your phone book

1. Press POWER (⏻) briefly. And then touch

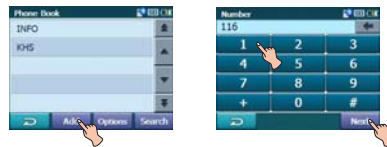


2. Touch the list you want to call. And then touch **Send**.



## Adding the phone number

1. Touch **Add** in the "Phone Book" screen. And then Touch **Next** after inputting the number buttons.



2. Touch **OK** after changing the name.



## Receiving all list in your phone

Touch **Options** in the "Phone Book" screen. And then touch **Receive**.



- Your device will receive the contact(s) via Bluetooth in your phone. If your phone is not connected, it needs to enter the PIN code in the phone.
- With receiving phone book from your phone, and the data will be stored in the resident memory of your device.



# Bluetooth (Optional)

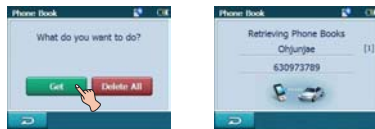
## Getting all list from you phone

If your phone supports the synchronization of phone book, you can get all list from the phone.

\* If the phone hasn't been registered to available list on your device, you will meet the below pop-up, "Do you want to get the phonebook from your phone?", after connecting your phone with the your device.



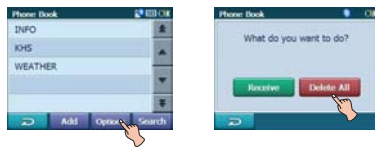
Touch **Options** in the "Phone Book" screen. And then touch **Get**.



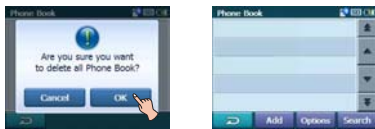
The synchronisation with your phone book will begin automatically, the data will be stored in the resident memory of your device. (It will takes a few minutes according to the number of phone book in your phone.)

## Deleting all list in the phone book

1. Touch **Options** in the "Phone Book" screen. And then touch **Delete All**.



2. Touch **OK**.



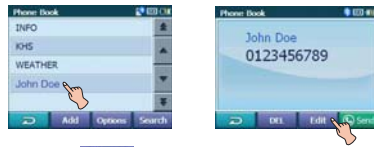
## Deleting the phone number

Touch the list to delete in the "Phone Book" screen. And then touch **DEL**.



## Editing the phone number

1. Touch the list to edit in the "Phone Book" screen. And then touch **Edit**.



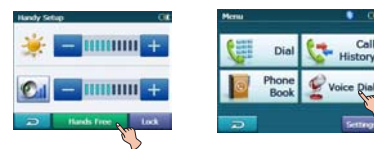
2. Touch **Next** after changing the number. And then touch **OK** after changing the name.



## Using voice Dial

You can make a call by speaking the contact's name.

1. Press **POWER** (⏻) briefly. And then touch **Hands Free** > **Voice Dial**.



# Bluetooth (Optional)

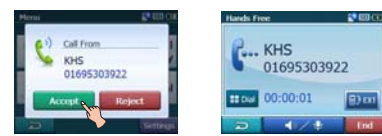
- Speak the contact name from your phone. And then speak name, number or command.



- Touch **End** to finish the telephone conversations.

### Incoming calls

- If there is an incoming call, your phone rings and the "Call from" pop-up screen is displayed on the screen.
- Touch **Accept** to answer the call.



If you want to reject a call, touch **Reject**.

### Ending calls

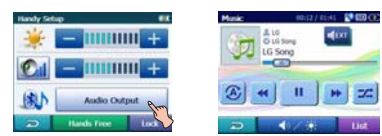
When you are calling on the map, music, or photo mode, **End** appears in the screen. Touch **End** to finish the telephone conversations.



### Listening to music files

You can control and hear the music (especially, mp3) files saved on your device via the your stereo headset with *Bluetooth* wireless technology.

Touch **Audio Output** in the "Hands Setup" screen.



### Notes

- You can hear the sound through the speaker of unit or Bluetooth stereo headsets by touching **EXT** / **EXT**.
- The sound quality depends on Radio Frequency (RF) conditions and the sampling rate of audio.
- Sampling rate of MP3 file that can hear the music using Bluetooth stereo headset
  - 16 KHz , 32 KHz , 44.1 KHz , and 48 KHz
  - The sound quality may be poor on the sampling rate of 16 KHz , 32 KHz.



## Installation

### Installing the Navigator “PC Portal”

Installation the Microsoft .Net Framework 2.0 for computer can be done by following the instructions.

1. Insert the Navigator CD into the PC's CD-ROM drive. The “PC Portal” Installation wizard prompts you to select the language used for the installation process. When you have selected a language, click “OK”.
2. Read the Welcome message and click “Next”.
3. From the Select Directory screen, either accept the recommended default directory or browse to a different directory to install the “PC Portal”. Click “Next”.
4. If you want to change the directory location before installing, click “Back”. When you are ready to install the “PC Portal”, click “Next”.  
The installation status box displays the progress of the installation process.
5. When the installation is complete, click the “Finish” button.
6. After finishing installing PC Portal, install the “Maps installer” program. This procedure is similar to PC Portal install.
7. When the installation is complete, click the “Finish” button, The Select Language box appears.
8. From the Select Language dialog box, you can select the display language for the “PC Portal”. Select the Launch “PC Portal” checkbox for “PC Portal” to immediately start and click “OK”. Alternatively, you can start the “PC Portal” from the Microsoft® Windows® Programs menu.

9. Select from up to two connected devices. (LN830/LN835/LN835R)

#### **Note**

Please pay close attention to all the programs before installing the CD to your personal computer.

Please pay close attention especially for anti-virus programs like spyware.

### Recommended PC System Requirements

Please review the following system requirements before installing “PC Portal”:

- CPU: AMD/Intel® Processor 300 MHz or faster
- Operating System: Windows® 2000/XP/Vista
- Memory: 128 MB RAM (minimum)
- Hard drive free space: 500 MB (minimum)
- CD-ROM: 4x drive or higher
- ActiveSync Version 3.8 to 4.2 supported under Windows 2000 and XP
- USB Version 1.1 or 2.0 connection (compatible 2.0)
- Microsoft .Net Framework 2.0





## Installation/Using software



### Starting the “PC Portal” Wizard

The first time you start the “PC Portal”, the “PC Portal” Wizard automatically starts, letting you install navigator software, supported languages and voice prompts, and maps.


For a complete description of the “PC Portal”, see Using the “PC Portal” on the [page 42-43](#).

1. Click the Microsoft® Windows® Start button.
2. Click the Programs > LGE > “PC Portal”. The “LGE PC Portal for (LN840/LN840R/LN845/LN845R/LN855/LN855R)” appears.
3. If this is your first time using “PC Portal”, the “PC Portal” wizard automatically starts and displays the Welcome screen.
4. Make sure that your device is connected by USB cable to a port on your PC. You will see Connected on the “PC Portal” screen.
5. Click the   buttons to move to the previous or next screen.
6. Select software components to install to your device.

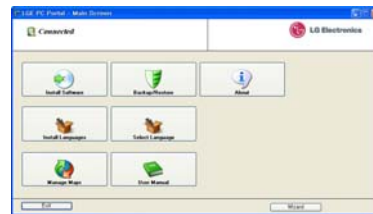
#### Note

- If you want to start the wizard, click  from the “PC Portal” Main screen.
- If you want to stop the wizard, click .

The “PC Portal” Main screen is displayed.

- If after selecting component, software, and voice options, you want to return to the original selections, click .

### Using the “PC Portal”



Click “Install Software” and select from the following components to install to your device:

- LGE: GPS navigation software
- Tutorial: Tutorial guide

To install navigator components:

1. From the Install Software screen, select from the list of components, as described above.
2. Click the Install button.
3. Navigator “PC Portal” installs the selected components to the device’s main memory.



Click “Manage Maps” to install or remove a map.

For more information, see “Installing Maps” on the [page 44](#).



Click the “User Manual” button to see a user manual.



Click the “Select Language” button to show a list of languages that you can choose from to display the “PC Portal”.



Click the “About” button to check software version.



## Using software



Click the "Backup/Restore" button to backup the following Navigator items:

- Favorites: All locations that are displayed in Navigator's Favorites screens.
- Trips: All locations that appear in Navigator's Multistops screens.
- LGE Settings: Setting configurations, such as map views (2D/3D and Day/Night), prompts, units of measurement, and map and route setting preferences.

When you select Backup, "PC Portal" makes a copy and stores the information to your computer.

To backup Navigator data to your PC:

1. From the Backup/Restore screen, select Backup.
2. Select the items that you want to make a copy of and save to your computer.
3. Click the "Backup" button.
4. "PC Portal" saves the selected items to your computer.

Click the Backup/Restore button to restore Favorites, Multistops, and My Navigator data to a navigation device. When you select Restore, "PC Portal" recovers the information stored on your computer.

To restore stored Navigator data to a navigation device:

1. From the Backup/Restore screen, select Restore.
2. Select the items that you want to restore.
3. Click the "Restore" button.
4. "PC Portal" restores the selected items.



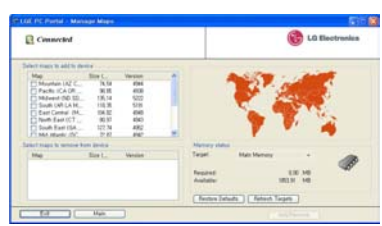
Click Install Languages to install a language to your device.

To install languages:

1. From the Install Languages screen, select the languages to be installed to the device.
2. Click the Install button.
3. Navigator PC Portal installs the selected languages to the device's main memory.
4. You can display the Navigator interface in the language of your choice by tapping the Language Settings button on the Setup menu and selecting the language in Navigator.

# Using software

## Installing Maps



## Removing Maps

You can remove a map by selecting a map in the Device Maps pane and clicking the "Add/Remove" button.

1. From the Desktop Maps pane, select a map.
2. From the "Target" context box, select the main memory.
3. When you select a Target option (Storage Card, Main Memory) the "PC Portal" displays the following information:
  - Required: The amount of free space necessary to install the map on the selected Target option.
  - Available: The amount of free space available for the selected Target option.Note: If the free space required is equal or greater than the free space available, "PC Portal" will not install the selected map.
4. Select a map to add or remove.
5. Click the "Add/Remove" button.
6. The selected map is installed and displayed in the Device Maps panel.





## Using software

### General Warning Messages

The following warning messages can appear when you're working with navigator "PC Portal".

#### Lost connection transfer

If at any point during the installation or data transfer, the connection to the device is lost, the following message is displayed:  
"Connection to the device has been lost. Please check your connection."

#### Uninstalling Navigator Console

When a version of navigator programme (versions prior to the "PC Portal") is located on your computer, the following message is displayed:

"A previous version of "PC Portal" was found. Do you wish to uninstall?"

It is recommended to uninstall the previous program before installing "PC Portal".

#### Uninstalling "PC Portal"

When an earlier version of navigator "PC Portal" is located on your computer, the following message is displayed:

"A previous version of "PC Portal" was found. Do you wish to uninstall? "

It is recommended to uninstall a previous version of "PC Portal" before installing the current version.

#### Updates to "PC Portal"

If there are updates in navigator, you are prompted to download them in the following message:

"There are updates to "PC Portal", do you wish to download and install them?"

#### Previous maps

If maps from a previous version are located on your computer, the following message is displayed:

"Existing maps data found. Do you want to keep it?"

Clicking "Yes" lets you install maps from previous versions.

#### Remove maps

The following message appears when you have selected an installed map and clicked the Actions button:

"Selected maps shall be removed from your device. Are you sure you wish to continue?"

#### Data Transfer

If you close the PC Portal while install navigator software, a map, importing or exporting a Favorite location, or backing up data. the following message appears. : "if you will close the PC Portal now, the [process] shall not be completed. Are you sure you wish to close?".

#### Backup Data

If stored data is located on your computer, the following message appears:

"Navigator Backup data found. Do you want to keep it?" It is recommended to keep backup data.



## Troubleshooting

### Navigation program and map data protection

- If you want to operate this product properly, navigation program and map data provided by LGE should be in LGE folder on your navigation device.
- Don't erase or modify any contents in the LGE folder using USB mass storage connection. (All contents are important to operate navigation. Deleting this data may cause navigation to lead to malfunction.)

### Audio streaming

To enjoy high quality music using Bluetooth stereo headsets, we recommend over 16-bit audio with sampling rates of 48 KHz and 44.1 KHz. (The sound quality depends on sampling rates of audio and your headset.)

### Picture format

JPG: Image file size should be less than 1600 MP (megapixels).

### Cannot identify the current location. (GPS not receiving)

GPS cannot be used indoors and must be connected to the power with ACC to a vehicle in a location where the sky can be seen well. When initially connecting the GPS, it usually takes about 10 minutes to operate normally, but the connection speed can differ depending on the weather condition, and surrounding obstacles.

If the GPS connection is unstable for a long period of time, try the following.

- Check if the power is connected to the product.
- Check if the back of the GPS product is in a location where the sky can be seen well.
- If there are high buildings or if you are under a tree, move to a location where there aren't any obstacles.
- Check the GPS receiving condition from the GPS menu.

### Cannot hear the voice guide.

You can hear the voice guide when you select

"Guidance" in "Setup".

But during actual driving, the voice guide is provided.

If the volume is too low, adjust the volume on the right unit.

### Cannot see the map.

This is when you cannot see the map even when you have executed the navigation menu.

This happens when the data within the memory is damaged. Delete all the data within the memory and reinstall the data. If the problem persists after the installation, contact the Customer Service Center.

### Map data and dangerous area information are not updated.

You must periodically update the map data. Refer to the homepage for details on how to update the data.

### The path guide can be different from the actual path. (Path guide error)

- When the road is closely parallel.
- When the splitting road angle is very small.
- When there is an adjacent road when turning.
- When driving on a road that is narrowing fast.
- When driving through the mountain or where the road is too curvy.
- When the starting, passing and arriving locations are too close within 10 km.
- When you have set the starting, passing or arriving location more than 1 km away from the road.
- When driving through the tunnel.
- When driving through high buildings.



## Troubleshooting

### There is a difference between the driving road and the road on the map in the product.

Even though GPS is usually very accurate, it has an error range. When GPS receiver is installed, there can be an error of about 5 to 15m. But for newly constructed roads, the problem could be from the data update to the map.

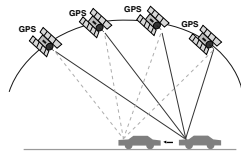
### What is GPS?

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of 24 satellites placed into orbit by the U.S.

Department of Defence. GPS was originally intended for military applications, but in the 1980s, the government made the system available for civilian use.

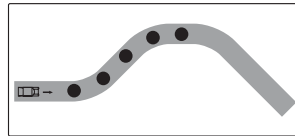
GPS works in any weather conditions, anywhere in the world, 24 hours a day.

There are no subscription fees or setup charges to use GPS.

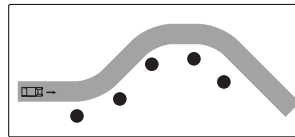


### Map matching

The GPS used by this Mobile Navigation System is susceptible to certain errors. Their calculations may on occasion place you in a location on the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and is able to correct your position by adjusting it to a near road. This is called map matching.



With map matching.



With no map matching.

### Basic operation tips

1. After charging or connecting to a power source, turn the unit on.
2. Make sure you are stopped (not moving) in a location with a clear view of the sky.
3. You will see your current location within a few minutes and then you can start navigating.
4. If the correct location is not found within 6 minutes, restart the unit using the ON/OFF button on the side of the unit.



## Bluetooth phone compatibility list

- If even a phone as described in this list meets requirements of Bluetooth Hand-free Profile 1.5 and Object Push Profile 1.1, it can operate. However, it is noted that we cannot assure for operation by function.
- As difference in functional operation by model is mainly resulted from feature of a hand-free phone, consult manufacturer of a phone if you have any question.
- There may be restrictions on using Bluetooth technology depending on some locations or wireless environment. Due to the variety of Bluetooth phones and their firmware version, your device may respond differently when performing over Bluetooth.

Manufacturer	Model	Year	Hansfree Calling	Display Caller ID	Voice Dial	Phone Book Sync	Object Push (vCard)
BLACK BERRY	8100	2007	YES	YES	YES	NO	NO
BLACK BERRY	8800	2007	YES	YES	YES	NO	NO
HP	HW6915	2005	YES	YES	NO	YES	YES
HP	H6315	2007	YES	YES	NO	NO	YES
LG	KE970	2007	YES	YES	NO	NO	YES
LG	KE850	2007	YES	NO	NO	YES	NO
LG	CU500	2007	YES	YES	NO	NO	YES
LG	ME970	2007	YES	YES	NO	YES	NO
LG	MG320	2007	YES	YES	NO	NO	YES
LG	MG280	2007	YES	NO	NO	NO	YES
LG	KE500	2007	YES	YES	NO	NO	YES
LG	KG290	2007	YES	YES	NO	NO	YES
LG	KU380	2007	YES	YES	NO	NO	YES
LG	CU575	2007	YES	YES	YES	NO	YES
LG	KU580	2007	YES	YES	NO	NO	YES
LG	KU970	2007	YES	YES	NO	NO	NO
LG	KG245	2006	YES	YES	NO	NO	YES
LG	KG800	2006	YES	YES	NO	NO	YES
LG	M4410	2006	YES	YES	NO	NO	YES
LG	U890	2006	YES	YES	NO	NO	NO
MOTOROLA	U6	2006	YES	YES	YES	YES	NO
MOTOROLA	RIZR Z80	2007	YES	YES	NO	NO	YES
MOTOROLA	ROKR E6	2007	YES	YES	NO	NO	YES
MOTOROLA	RAZR V3i	2006	YES	YES	YES	YES	YES
MOTOROLA	V360	2006	YES	YES	YES	YES	YES
MOTOROLA	KRZR K1	2006	YES	YES	YES	YES	YES
MOTOROLA	ROKR E2	2006	YES	YES	YES	NO	YES
MOTOROLA	SLVR L7	2006	YES	YES	YES	YES	YES
MOTOROLA	V195	2006	YES	YES	YES	YES	YES
MOTOROLA	V600	2006	YES	YES	YES	YES	YES
MOTOROLA	RAZR V3X	2006	YES	YES	YES	YES	YES
MOTOROLA	E1000	2005	YES	YES	YES	YES	YES
MOTOROLA	A1000	2004	YES	YES	YES	NO	YES
MOTOROLA	E550	2004	YES	YES	YES	YES	YES
MOTOROLA	V525	2004	YES	YES	YES	YES	YES
MOTOROLA	V600	2004	YES	YES	YES	YES	YES
NOKIA	6230i	2005	YES	YES	YES	YES	YES
NOKIA	6230	2004	YES	YES	YES	NO	YES
NOKIA	8910i	2004	YES	YES	NO	YES	YES
NOKIA	N77	2007	YES	YES	YES	NO	YES



## Bluetooth phone compatibility list

Manufacturer	Model	Year	Hansfree Calling	Display Caller ID	Voice Dial	Phone Book Sync	Object Push (vCard)
NOKIA	N95	2007	YES	YES	YES	NO	YES
NOKIA	N91	2007	YES	YES	YES	NO	YES
NOKIA	8600	2007	YES	YES	YES	YES	YES
NOKIA	N91	2007	YES	YES	YES	NO	YES
NOKIA	N91	2007	YES	YES	YES	NO	YES
NOKIA	6103	2006	YES	YES	YES	YES	YES
NOKIA	6131	2006	YES	YES	YES	YES	YES
NOKIA	7370	2006	YES	YES	YES	YES	YES
NOKIA	7380	2006	YES	YES	YES	YES	YES
NOKIA	6280	2006	YES	YES	YES	YES	YES
NOKIA	E60	2006	YES	YES	YES	NO	YES
NOKIA	E61	2006	YES	YES	YES	NO	YES
NOKIA	N70	2006	YES	YES	YES	NO	YES
NOKIA	5300	2006	YES	YES	YES	YES	YES
NOKIA	5500	2006	YES	YES	YES	NO	YES
NOKIA	6670	2006	YES	YES	YES	NO	YES
NOKIA	E50	2006	YES	YES	YES	NO	YES
NOKIA	E62	2006	YES	YES	YES	NO	YES
NOKIA	E70	2006	YES	YES	YES	NO	YES
NOKIA	N73	2006	YES	YES	YES	NO	YES
NOKIA	N80	2006	YES	YES	YES	NO	YES
NOKIA	N92	2006	YES	YES	YES	NO	YES
NOKIA	6670	2005	YES	YES	YES	NO	YES
NOKIA	3230	2005	YES	YES	YES	NO	YES
NOKIA	6680	2005	YES	YES	YES	NO	YES
NOKIA	7610	2004	YES	YES	YES	NO	YES
NOKIA	9500	2004	YES	YES	NO	NO	NO
NOKIA	3650	2004	YES	NO	YES	NO	YES
NOKIA	6600	2004	YES	YES	YES	NO	YES
NOKIA	6820a	2004	YES	YES	YES	NO	YES
NOKIA	N-GAGE	2004	YES	YES	YES	NO	YES
NOKIA	6650	2004	YES	YES	YES	YES	YES
PALM	TREO750V	2007	YES	YES	NO	NO	YES
PALM	TREO750V	2007	YES	YES	NO	NO	YES
PANTECH	PG6200	2006	YES	YES	NO	NO	YES
SAMSUNG	D900	2007	YES	YES	NO	YES	YES
SAMSUNG	i600	2007	YES	YES	YES	NO	NO
SAMSUNG	A707	2007	YES	YES	NO	NO	NO
SAMSUNG	D600	2006	YES	YES	NO	NO	YES
SAMSUNG	D820	2006	YES	YES	NO	NO	YES
SAMSUNG	Z540V	2006	YES	YES	NO	NO	NO
SAMSUNG	T509	2006	YES	YES	NO	NO	YES
SHARP	GX15	2004	YES	NO	NO	NO	YES
SIEMENS	SL75	2006	YES	YES	NO	YES	YES
SIEMENS	SK65	2004	YES	YES	NO	YES	YES
SIEMENS	SX1	2004	YES	YES	YES	NO	YES
SIEMENS	S65	2004	YES	YES	NO	YES	YES



## Bluetooth phone compatibility list

Manufacturer	Model	Year	Hansfree Calling	Display Caller ID	Voice Dial	Phone Book Sync	Object Push (vCard)
SONY	V800	2005	YES	YES	YES	YES	YES
SONY	M600i	2007	YES	YES	YES	YES	YES
SONY	K750i	2006	YES	YES	YES	YES	YES
SONY	W810i	2006	YES	YES	NO	YES	YES
SONY	V600i	2006	YES	YES	YES	YES	YES
SONY	W710i	2006	YES	YES	YES	YES	YES
SONY	W850i	2006	YES	YES	YES	YES	YES
SONY	K800i	2006	YES	YES	NO	YES	YES
SONY	K700i	2005	YES	YES	YES	YES	YES
SONY	S700i	2005	YES	YES	YES	YES	YES
SONY	T610	2004	YES	YES	YES	YES	YES
SONY	Z600	2004	YES	YES	YES	YES	YES



## Specifications

ITEM	SPECIFICATION	REMARK
<b>OS CPU MEMORY</b>	Win CE 5.0 ARM9 400 MHz 2GB	Built-in Memory
<b>DISPLAY</b>	4.3 inch TFT LCD Resolution 480 X 272 LED type Backlight Touch Screen	Analog resistive type
<b>AUDIO</b>	Mono, Internal Speaker	Typical 1.0W (1EA)
<b>GPS</b>	SiRF star III, Internal Antenna	
<b>NAVI</b>	North America [TMC: FM Traffic Receiver (Optional)]	Voice Guidance
<b>MAP</b>	Navteq	
<b>POWER</b>	DC 5V/1A	Vehicle Power Cigar-jack Input (12-24V)
<b>TEMPERATURE</b>	Operating : -10 °C to 60 °C Storing : -30 °C to 80 °C	
<b>Built-in BATTERY</b>	DC 3.7 V (Li-Ion), 1100mAh - MP3: 4 hours [Brightness: Minimum, Volume: 5 (Center)] - Navigation: 3.5 hours [Brightness: 5 (Center) , Volume: 5 (Center)] - Photo: 4 hours [Brightness: 5 (Center) , Volume: 5 (Center)]	
<b>INTERFACE</b>	Mini-USB Port External GPS Jack	USB 2.0
<b>Multimedia</b>	Image Audio	JPG MP3



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