

# Car Navigation System

OWNER'S MANUAL

## SORENTO

Please read this manual carefully before operating your set and retain it for future reference.  
Designs and specifications are subject to change without prior notice.






## **Thank you for purchasing this Car Navigation system.**

This user's manual explains how to use the KIA Motor Car Navigation system.  
Before using the product, read the contents of this user's manual carefully and use this product safely.

- The screens shown in this manual may differ from the actual screens of the product.
- The design and specification of this product may change without prior notification for product improvement.
- When transferring the vehicle to another individual, include this user's manual so that the next driver can continue its use.

# Precautions for safety

## Safety notes

|  |   |   |
|--|---|---|
|   | <b>CAUTION</b><br><b>RISK OF ELECTRIC SHOCK</b><br><b>DO NOT OPEN</b> |  |
| <b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. |   |   |



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user about the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Always operate the vehicle in a safe manner. Do not become distracted by the vehicle while driving and always be fully aware of all driving conditions. Do not change settings or any functions.

Pull over in a safe and legal manner before attempting such operations.

To promote safety, certain functions are disabled unless the hand brake is on.



To reduce the risk of electric shock, do not remove the cover or back of this product. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.



To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain or moisture.



When driving your vehicle, be sure to keep the volume of the unit low enough to allow you to hear sounds coming from the outside.



Do not drop it and avoid heavy impacts at anytime.



The driver should not watch the monitor while driving. If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.

## Precautions for safety

### WARNING:

- Don't use a cellular phone when you are driving. You must stop at a safe place to use a cellular phone.
- The use of the navigation radio by no means relieves the driver of his/her responsibilities. The highway code must always be observed. Always observe the current traffic situation.
- The applicable traffic regulations and the prevailing traffic situation always take precedence over the instructions issued by the navigation system if they contradict one another.
- For traffic safety reasons, use the navigation system menus only before starting a journey or when the vehicle is stationary.
- In certain areas, one-way streets and turn off and entry prohibitions (e.g. pedestrian zones) are not recorded. In areas such as these the navigation system will issue a warning. Pay particular attention to one-way streets and turn off and entry restrictions.

- The navigation system does not take the relative safety of the suggested routes into consideration. Road blocks, building sites, height or weight restrictions, traffic or weather conditions or other influences which affect the route safety or travel time are not taken into consideration for the suggested routes. Use your own discretion in order to decide on the suitability of the suggested routes.
- The current legal road traffic speed limit always takes priority over the values saved on the data. It is impossible to provide an assurance that the speed values of the navigation system will always match those of the current traffic regulations in every situation.
- Always observe the applicable legal speed limits the traffic regulations. The vehicle speedometer must always be given priority for display of the vehicle speed.
- Do not rely exclusively on the navigation system when attempting to locate an emergency service (hospital, fire service etc.). It cannot be guaranteed that all available emergency services in your vicinity are saved in the database. Use your own discretion and abilities to secure help in such situations.

### CAUTION:

- Do not keep the navigation system running with the engine stopped. Doing so may discharge the vehicle battery. When you use the navigation system, always keep the engine running.
- When the driver wants to operate the navigation system, first park the vehicle in a safe location and set the parking brake. Operating the system while driving can distract the driver and may result in a serious accident.
- Do not disassemble or modify this system. If you do, it may result in accidents, fire or electrical shock.
- Some states/provinces may have laws limiting the use of video screens while driving. Use the system only where it is legal to do so.
- Do not use your phone in private mode when you are driving. You must stop at a safe location to use it.

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EAC  R-NZ

# Table of contents



|   |           |   |           |  |           |
|---|-----------|---|-----------|--|-----------|
| <b>Precautions for safety</b>             | <b>3</b>  | <b>Radio operation (FM/AM)</b>                                | <b>13</b> | File info.....   | 19        |
| Safety notes .....                        | 3         | Listening to FM/AM radio.....                                 | 13        | Display settings.....  | 19        |
| <b>Table of contents</b>                  | <b>5</b>  | Opening the station list sorted in alpha-numerical order..... | 13        | Slideshow interval(sec).....                                       | 19        |
| <b>General information</b>                | <b>7</b>  | Autostore (AM only) .....                                     | 13        | <b>iPod Operation</b>  | <b>20</b> |
| About USB .....                           | 7         | Presetting FM/AM .....  | 14        | Playing iPod .....   | 20        |
| MP3 file Information.....                 | 8         | Saving FM/AM preset.....                                      | 14        | Pause.....   | 20        |
| Image file Information .....              | 8         | Deleting FM/AM preset.....                                    | 14        | Skip.....  | 20        |
| Using iPod Devices.....                   | 8         | <b>Setting the FM/AM options</b> .....                        | <b>14</b> | Search.....  | 20        |
| Precautions upon using iPod.....          | 8         | Scan .....  | 14        | Seek .....   | 20        |
| Supported iPod devices.....               | 8         | Sound settings.....   | 15        | List.....  | 20        |
| <b>Cautions upon using SD Cards</b> ..... | <b>8</b>  | <b>USB Operation</b> .....                                    | <b>16</b> | Setting audiobook playback speed.....                              | 20        |
| Ejecting and Inserting SD Cards.....      | 8         | <b>Playing USB music</b> .....                                | <b>16</b> | Repeat .....   | 21        |
| Usage of SD Cards.....                    | 8         | Pause.....  | 16        | Shuffle .....  | 21        |
| <b>Name of each component</b>             | <b>9</b>  | Skip.....   | 16        | Sound settings.....  | 21        |
| Head unit.....                            | 9         | Search.....   | 16        | <b>Auxiliary device operation</b>                                  | <b>22</b> |
| Steering wheel remote control .....       | 11        | Seek .....  | 16        | Playing an AUX source .....  | 22        |
| <b>Basic operation</b>                    | <b>12</b> | List.....   | 16        | Switching to menu screen or full screen during video playback..... | 22        |
| Starting the system for the first time..  | 12        | Scan .....  | 17        | Display settings.....  | 22        |
| Turning the system on .....               | 12        | Repeat .....  | 17        | Sound settings.....  | 22        |
| Turning the system off .....              | 12        | Shuffle .....   | 17        | <b>Bluetooth audio</b>   | <b>23</b> |
| Adjusting the volume .....                | 12        | Sound settings.....   | 17        | Playing Bluetooth audio .....                                      | 23        |
| Using the Touch screen.....               | 12        | <b>Viewing USB image</b> .....                                | <b>18</b> | Before playing the Bluetooth audio.....                            | 23        |
|   |           | Switching to menu screen or full screen.....                  | 18        | Starting the Bluetooth audio.....                                  | 23        |
|   |           | Skip.....   | 18        | Pause.....   | 23        |
|   |           | Zoom in/out.....  | 18        | Skip.....  | 23        |
|   |           | Rotating image.....   | 18        |  |           |
|   |           | List.....   | 19        |  |           |

## Table of contents

|  |           |   |           |
|--|-----------|---|-----------|
| Sound settings.....  | 23        |   |           |
| <b>Getting started with navigation 24</b>                                |           |   |           |
| Precautions for safe driving . . . . .                                   | 24        |   |           |
| What is GNSS? . . . . .  | 24        |   |           |
| About satellite signals. . . . .   | 24        |   |           |
| Acquiring satellite signals. . . . .                                     | 24        |   |           |
| Initial navigation screen . . . . .                                      | 24        |   |           |
| (Refer to the separate navigation manual<br>for more detailed operation) |           |   |           |
| <b>Bluetooth® Wireless Technology 25</b>                                 |           |   |           |
| Before Using the Bluetooth Handsfree 25                                  |           |   |           |
| What is Bluetooth Wireless<br>Technology?.....                           | 25        |   |           |
| Precautions for Safe Driving.....  | 25        |   |           |
| Cautions upon Connecting Bluetooth<br>Phone.....                         | 25        |   |           |
| Pairing and connecting the unit and a<br>Bluetooth phone . . . . .       | 26        |   |           |
| When no phones have been paired  | 26        |   |           |
| When a phone is already paired.....                                      | 26        |   |           |
| When pairing additional device.....                                      | 26        |   |           |
| Bluetooth help.....  | 27        |   |           |
| Disconnecting the connected phone..                                      | 28        |   |           |
| Deleting Bluetooth Devices.....  | 28        |   |           |
| Making a call by entering phone number                                   | 28        |   |           |
| Making a call by redialing . . . . .                                     | 28        |   |           |
| Answering/Rejecting a call. . . . .                                      | 29        |   |           |
| Switching call to the mobile phone . .                                   | 29        |   |           |
| Ending a call . . . . .  | 29        |   |           |
| Using the menu during a phone call . .                                   | 29        |   |           |
| Calling list . . . . .   | 30        |   |           |
|  |           | Making a call from calling list.....                    | 30        |
| <b>Contacts . . . . .</b>  | <b>30</b> |   |           |
| Making a call from contacts.....   | 30        |   |           |
| Updating mobile phone contacts....                                       | 30        |   |           |
| Searching for contacts.....  | 31        |   |           |
| <b>Favourites . . . . .</b>  | <b>31</b> |   |           |
| Calling Favourites.....  | 31        |   |           |
| Adding as a Favourite.....   | 31        |   |           |
| Deleting favourites.....   | 32        |   |           |
| Changing the favourites name.....  | 32        |   |           |
| <b>Bluetooth settings.....</b>   | <b>32</b> |   |           |
|  |           | <b>Settings 33</b>                                      |           |
|  |           | [Settings] menu overview . . . . .                      | 33        |
|  |           | Sound . . . . .   | 33        |
|  |           | Display . . . . .                                       | 34        |
|  |           | Bluetooth. . . . .                                      | 34        |
|  |           | Paired devices.....                                     | 34        |
|  |           | Ringtone.....   | 34        |
|  |           | Change passkey.....                                     | 35        |
|  |           | Rename device . . . . .                                 | 35        |
|  |           | <b>System. . . . .</b>                                  | <b>35</b> |
|  |           | Language.....   | 35        |
|  |           | Keyboard.....   | 36        |
|  |           | Clock.....  | 36        |
|  |           | Factory settings.....                                   | 36        |
|  |           | <b>Using rear camera - Option 37</b>                    |           |
|  |           | About Rear Camera . . . . .                             | 37        |
|  |           | Turning on the rear camera.....                         | 37        |
|  |           | <b>AVM (Around View Monitor)</b>                        |           |
|  |           | <b>- Option 38</b>                                      |           |
|  |           | About AVM (Around View Monitor) . . .                   | 38        |
|  |           | Operating front AVM . . . . .                           | 38        |
|  |           | Operating rear AVM . . . . .                            | 38        |
|  |           | AVM setting . . . . .                                   | 39        |
|  |           | Warning display. . . . .                                | 39        |
|  |           | Driver's door open indicator.....                       | 39        |
|  |           | Front passenger's door open indicator..                 | 39        |
|  |           | Trunk open indicator . . . . .                          | 39        |
|  |           | Side mirror folding indicator.....                      | 39        |
|  |           | <b>Before thinking there is a product<br/>defect 40</b> |           |
|  |           | <b>Troubleshooting 43</b>                               |           |
|  |           | <b>Trademarks and Licenses 45</b>                       |           |
|  |           | Bluetooth® Wireless Technology.....                     | 45        |
|  |           | iPod®.....  | 45        |
|  |           | OPEN SOURCE SOFTWARE                                    |           |
|  |           | NOTICE.....   | 45        |
|  |           | <b>Specification 46</b>                                 |           |

## General information

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### About USB

- Files that are not standard format files will not be played.
- For MP3/WMA files, only music files with compression rates between 8 Kbps ~ 320 Kbps can be played.
- Heed caution to static electricity when connecting/disconnecting external USB devices.
- Encoded MP3 Players will not be recognised when connected as an external device.
- When connecting an external USB device, the device may not properly recognise the USB in some states.
- Only USB devices formatted as FAT 12/16/32 are supported, and NTFS file system is not supported.
- Some USB devices may not be supported due to compatibility issues.
- Avoid contact between the USB connector with bodily parts/foreign objects.
- Repeated connecting/disconnecting of USB devices within short periods of time may result in product malfunction.
- The amount of time required to recognise the external USB device may differ depending on the type, size or file formats stored on the USB. Such differences in required time are not indications of malfunction.
- The device may not recognise the USB device if separately purchased USB hubs and extension cables are being used. Connect the USB directly with the multimedia terminal of the vehicle.
- When application programmes are installed to specific USBs, files may not properly play.
- The device may not operate normally if MP3 Players, cellular phones, digital cameras or other electronic devices (USB devices not recognised as portable disk drives) are connected with the device.
- Charging through the USB may not work for some mobile devices.
- The device may not support normal operation when using a USB memory type besides Metal Cover Type USB Memory.
- The device may not support normal operation when using formats such as HDD Type, CF or SD Memory.
- The device will not support files locked by DRM (Digital Rights Management).
- USB memory sticks used by connecting an Adaptor (SD Type or CF Type) may not be properly recognised.

## General information

### MP3 file Information

- Sampling frequency: 8 ~ 48 KHz (MP3), 22.5 ~ 48 KHz (WMA)
- Bit rate: 8 ~ 320 Kbps (MP3), 20 ~ 320 Kbps (WMA)
- Version: v2, v7, v8, v9
- Playable file format: ".mp3"/".wma"

### Image file Information

Playable file format: ".bmp", ".jpg", ".gif", ".png", ".tif"  
(Max 1.5MB)

### Using iPod Devices

#### Precautions upon using iPod

iPod® is a registered trademark of Apple Inc.

- Some iPods with unsupported communication protocols may not properly operate with the system.
- If the iPod malfunctions due to an iPod device defect, reset the iPod and try again. (To learn more, refer to your iPod manual.)

- During ACC ON state, connecting the iPod through the iPod cable (The cable that is supplied when purchasing iPod/iPhone product.) will charge the iPod through the system.
- The use of genuine iPod cables supplied by Apple is recommended. (The use of other products may result in noise or abnormal operation.)
- Within iPhones, streaming audio and iPod control may occasionally conflict. If problems persist, remove the iPhone and connect again.
- Use iPod with complete synchronisation to iTunes. Unauthorised song addition may cause abnormal operation.
- If iPod and Bluetooth are connected simultaneously with the same iPhone, you cannot use Bluetooth audio function.
- If iPod touch or iPhone is used, iOS4.2 or a later version is recommended.

#### Supported iPod devices

iPhone5C, iPhone5S, iPhone5  
iPhone4S, iPhone4  
iPhone3GS, iPhone3G, iPhone  
iPod Touch (1st through~ 5th generation)  
iPod Nano  
iPod Classic6.5G, iPod Classic6G  
iPod Classic5G (Video)

### Cautions upon using SD Cards

#### Ejecting and Inserting SD Cards

- Ejecting and inserting SD cards while the system is operating may result in SD Card or System errors. To eject or insert the SD card, first turn off the system and the vehicle should be off status.
- Eject/insert SD cards only to update the map with a new version.
- When a SD Card with the new version is inserted, then the system will reboot automatically.

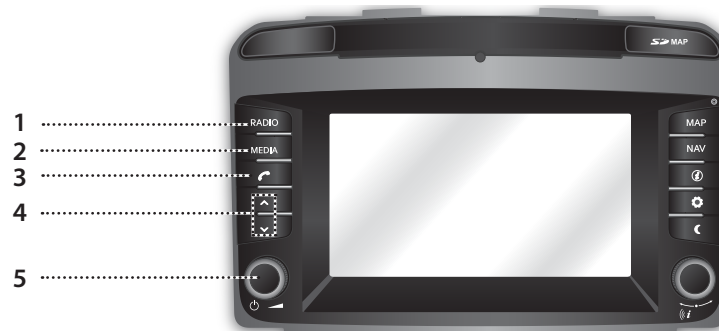
#### Usage of SD Cards

- The SD Card is formatted to include only Map and new Navi S/W.
- The SD Card cannot be used to save and play Music.
- Do not add, delete or format files within the SD Card.



# Name of each component

## Head unit



### 1. RADIO button

Converts to the last played radio mode (FM/AM).

When system is already displaying the radio screen then each time the button is pressed, the mode is changed in the order FM -> AM -> FM.

### 2. MEDIA button

Press to select a media source: [USB Music]/ [iPod]/ [Bluetooth Audio]/ [AUX]

### 3. button

Press to operate Bluetooth Hands-Free function.

### 4. V/Λ button

- When it is pressed shortly (less than 0.8 sec.)
  - FM/AM mode: plays previous/next station.
  - MEDIA mode: plays previous/next file.
- When it is pressed and held (0.8 sec. or longer)
  - FM/AM mode: tunes continuously along the band until the button is released. Then tuning is stopped at the next available station.
  - MEDIA mode: rewinds or fast forwards the file.

### 5. button

- Power on  
Press this button in system OFF status.
- Power off  
Press this button in system ON status.

### • Volume control knob ()

Turn counterclockwise or clockwise to control volume.

## Name of each component



### 6. button

- FM/AM mode: turn left/right to tune manually (FM/AM) or to search for a desired station and then press it.
- MEDIA mode: turn left/right to search for the desired file and press it.
- Navigation mode: turn left/right to change the map scale on the map screen.

### • button

Press to repeat the voice guidance on the map screen.

### 7. button

Press to turn the screen on or off.

### 8. button

- Press to move to the [Settings] menu.
- Press and hold to check Software version, Bluetooth version, Navigation version, Map database version, and Firmware version.

### 9. button

- Route Info
- Alternatives

### 10. NAV button

Press to move to the navigation menu screen.

### 11. MAP button

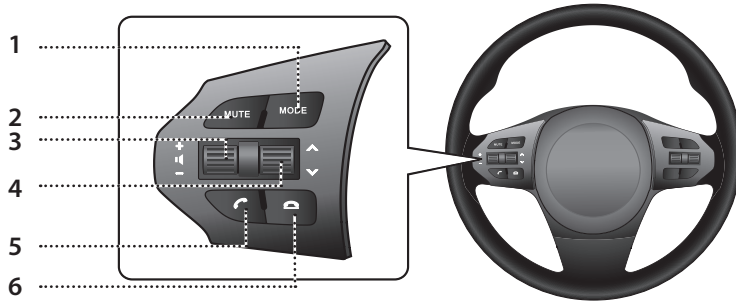
Press to display the map screen of the current location when in a different mode.

### 12. Cover for protecting SD card (SD card insert slot)

Insert the SD card into the slot.

# Name of each component

## Steering wheel remote control



### 1. MODE button

- Each time this button is pressed, the Radio or Media mode is changed.
- If the media is not connected, corresponding modes will be disabled.

### 2. MUTE button

Press to mute the sound.

### 3. Volume (+ -) button

Increases or decreases the volume level.

### 4. Seek up/down (^/v) button

- When it is pressed shortly (less than 0.8 sec.)
  - FM/AM mode: plays previous/next station.
  - MEDIA mode: plays previous/next file.
- When it is pressed and held (0.8 sec. or longer)
  - FM/AM mode: tunes continuously along the band until the button is released. Then tuning is stopped at the next available station.
  - MEDIA mode: rewinds or fast forwards the file.

### 5. button

Press to operate Bluetooth Hands-Free function.

- Press to accept a call.
- Press to make a call from last calls.
- Press and hold for redialing.

### 6. button

Press to hang up a call.

## Basic operation

### Starting the system for the first time

1. Press the engine start button or set the ignition key to On or ACC.



2. The system memorises the last mode that was played. The last mode is saved in the memory even if the ignition switch is placed in the OFF position. When the ignition switch is placed in the ACC or ON position, the mode is automatically recalled.

### Turning the system on

Press "⏻" on the head unit in system OFF status.

#### ! Note

Pay attention to the volume setting when turning the system on. A sudden output of extreme volume upon turning the system on could lead to hearing impairment. Adjust the volume to a suitable levels before turning off the system.

### Turning the system off

Press "⏻" on the head unit in system ON status.

### Adjusting the volume

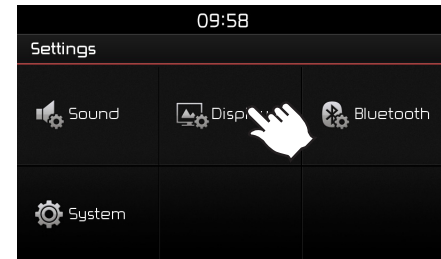
Rotate the volume control knob (▲) on the head unit.

#### ! Note

When you turn the system off, the current volume level is automatically memorised. Whenever you turn the system on, it operates at the memorised volume level.

### Using the Touch screen

Press the desired menu on the screen to select a menu.



# Radio operation (FM/AM)

## Listening to FM/AM radio

1. Press "RADIO" on the head unit.
2. Press [Radio▲] > [FM] or [AM] on the screen.  
The FM/AM screen of the most recent listened station is displayed.



### ! Note

Each time the "RADIO" button on the head unit is pressed, the mode is changed in the order FM -> AM -> FM.

3. **Auto tuning:**
  - Press [◀◀/▶▶] on the screen.
    - Plays previous/next station.
  - Press and hold [◀◀/▶▶] on the screen.
    - Changes continuously the station until the button is released.

## Manual tuning:

Turn "↻" (counter)clockwise.

- The frequency moves up and down accordingly.

## Preset tuning:

Press [Preset]. Press the preset numbers of the desired broadcast station.

## Opening the station list sorted in alphanumerical order

You can see station list with superior reception.

1. Select the band (FM, AM) you want.
2. Press [List].



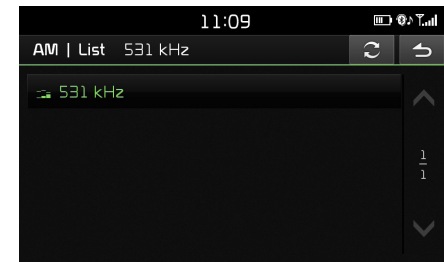
### ! Note

- Rotate "↻" to scroll up or down.
- Press [↶] to move to the previous screen.

## Autostore (AM only)

This function lets you automatically store the strong broadcast stations.

1. Select the AM band.
2. Press [List].



3. Press [↷].

### ! Note

- Rotate "↻" to scroll up or down.
- Press [↶] to move to the previous screen.

# Radio operation (FM/AM)

## Presetting FM/AM

### Saving FM/AM preset

20 preset stations each for FM/AM modes can be saved manually.

1. Select the band (FM, AM) you want to store a station into.
2. Select the desired station.
3. Press [Preset].
4. Press the desired preset number.

If you want to overwrite an existing preset, press and hold the respective preset number.



#### ! Note

- Rotate "↔" to scroll up or down.
- Press [←] to move to the previous screen.

## Deleting FM/AM preset

1. Select the band (FM, AM) you want.
2. Press [Preset] > [Delete].



3. Press [X] > [Yes].  
Press [Delete] > [Yes] to delete all presets.

#### ! Note

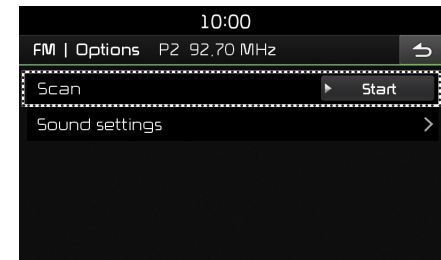
- Rotate "↔" to scroll up or down.
- Press [←] to move to the previous screen.

## Setting the FM/AM options

### Scan

This function scans all stations and plays only stations with sufficient signal strength for 5 seconds each.

1. Select the band (FM, AM) you want.
2. Press [Options].



3. Press [▶ Start].  
Press [■ Stop] to stop the scan function.

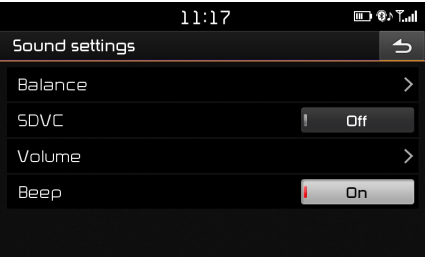


# Radio operation (FM/AM)

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## Sound settings

- 1. Press [Options] > [Sound settings] in the radio screen.



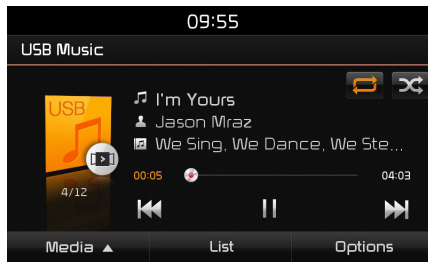
- 2. For details refer to page 33 ("Sound").

# USB Operation

## Playing USB music

You can play music files saved in a USB memory device.

Connect a USB device to the USB port and playback starts automatically.



### Note

To play USB music while a different source is playing, press [MEDIA] > [Media▲] > [USB Music].

## Pause

You can pause the playing file.

Press [II] during playback.

Press [▶] to play it again.

## Skip

You can play the previous or next file.

| Position  | Description  |
|-----------|--|
| Screen    | <ul style="list-style-type: none"><li>• Press [◀◀/▶▶].</li><li>• Pressing [◀◀] after 3 seconds of playback time plays the current file from the beginning.</li></ul> |
| Head unit | <ul style="list-style-type: none"><li>• Press "V/Λ".</li><li>• Pressing [V] after 3 seconds of playback time plays the current file from the beginning.</li></ul>    |

## Search

You can rewind/fastforward to a specific point of a file.

| Position  | Description  |
|-----------|--|
| Screen    | Press and hold [◀◀/▶▶] and then release at the point you want. |
| Head unit | Press and hold "V/Λ" and then release at the point you want.   |

## Seek

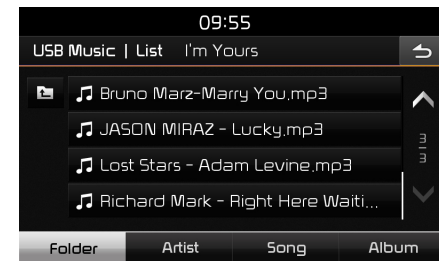
You can play the file directly by searching for the desired file.

1. Turn "↔" to search for a desired file.
2. If the desired file is displayed, press the "↔" to play the file.

## List

You can play the desired file by searching in the files list in the USB Menu.

1. Press [List].



2. Press the desired file name after searching in the files list. The list can be sorted by [Folder], [Artist], [Song] or [Album] by pressing the respective softkey on the lower bar.

### Note

- Rotate "↔" to scroll up or down.
- Press [←] to move to the previous screen.
- Press [↑] to move to upper folder.

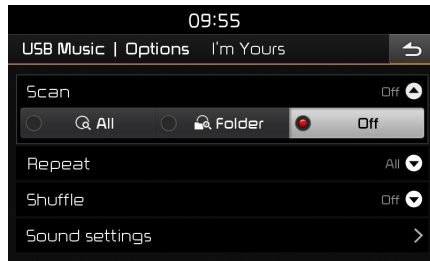


# USB Operation

## Scan

This function plays the first 10 seconds of the songs to provide a preview.

1. Press [Options] > [Scan].

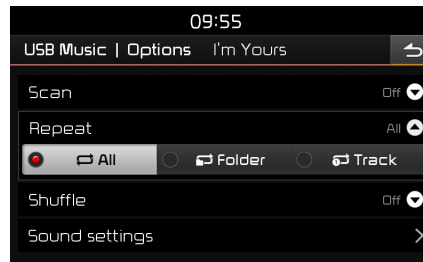


2. Press the desired item.
  - [All]: Plays the first 10 seconds of each song.
  - [Folder]: Plays the first 10 seconds of each song within the current folder.
  - [Off]: Cancels the scan function.

## Repeat

This function provides the possibility to play a set of files repeatedly.

1. Press [Options] > [Repeat].



2. Press the desired item.
  - [All]: Repeats the whole files list.
  - [Folder]: Repeats the files of the current folder.
  - [Track]: Repeats the current file, only.

### ! Note

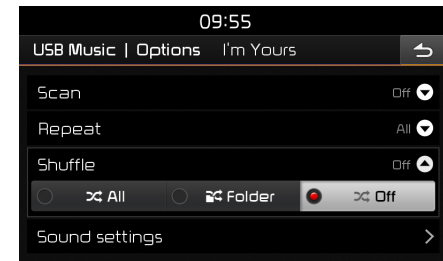
You can also set the Repeat functions by pressing [ / / ] on the playing screen.

: All, : Folder, : Track

## Shuffle

Playing files in random order.

1. Press [Options] > [Shuffle].



2. Press the desired item.
  - [All]: Plays all files randomly.
  - [Folder]: Plays all files within current folder randomly.
  - [Off]: Cancels the shuffle function.

### ! Note

You can set or cancel the Shuffle function by pressing [ / ] on the playing screen.

## Sound settings

1. Press [Options] > [Sound settings].
2. For details refer to page 33 ("Sound").

# USB Operation

## Viewing USB image

You can play image files saved in a USB memory device.

Connect a USB device to the USB port and playback starts automatically.

### **Note**

To display a USB image while a different source is playing, press [MEDIA] > [Media▲] > [USB Image].

## Switching to menu screen or full screen

Press the screen repeatedly.

## Skip

You can view the previous or next image.

| Position  | Description                    |
|-----------|--------------------------------|
| Screen    | Press [◀◀/▶▶].                 |
| Head unit | Turn "↺" to the left or right. |

## Zoom in/out

1. Press [🔍] in menu screen.



2. Press [-/+].
3. Press [↶/↷/⏪/⏩] to move the image.
4. Press [🖼️] to return to the original image.

### **Note**

Press [↶] to move to the previous screen.

## Rotating image

1. Press [🔄] in menu screen.



2. Press [🔄/🔄] to rotate the image.

### **Note**

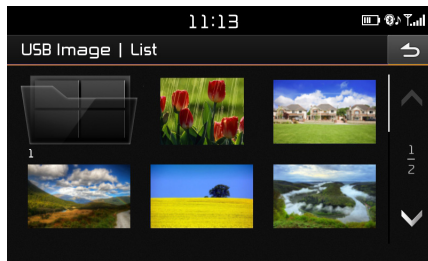
Press [↶] to move to the previous screen.

# USB Operation

## List

You can search for a desired image using the images list.

1. Press [List].



2. Press the desired image.

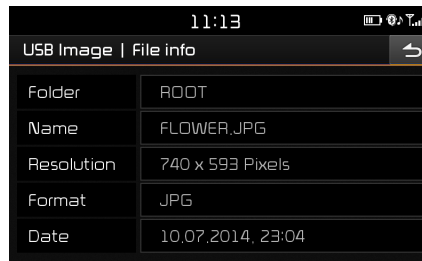
### Note

- Rotate “↔” to scroll up or down.
- Press [←] to move to the previous screen.
- Press [⏪] to move to upper folder.

## File info

This menu shows the folder name, file name, resolution, format and date of the current image.

1. Press [Options] > [File info].



### Note

Press [←] to move to the previous screen.

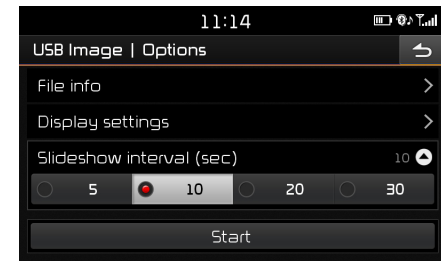
## Display settings

1. Press [Options] > [Display settings].
2. For details refer to page 34 ("Display").

## Slideshow interval(sec)

You can set the slideshow interval. The slideshow is played according to the time interval.


1. Press [Options] > [Slideshow interval(sec)].



2. Select the slideshow interval.
3. Press [Start].

### Note

- Press the screen once to stop the slideshow.
- Slideshow is not available while driving. (Because of traffic regulations, image is only available when your vehicle is parked.)

 Slideshow is not allowed while vehicle is moving.

# iPod Operation

## Playing iPod

Connect an iPod to the USB port by using the iPod cable and playback starts automatically.

### Note

To play iPod while a different source is playing, press [MEDIA] > [Media▲] > [iPod].

## Pause

You can pause the playing file. For details refer to page 16 ("Pause").

## Skip

You can play the previous or next file. For details refer to page 16 ("Skip").

## Search

You can rewind/fastforward to a specific point of a file. For details refer to page 16 ("Search").

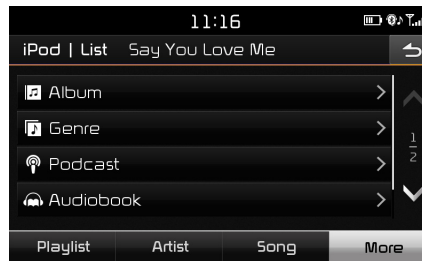
## Seek

You can play the file directly by searching for the desired file. For details refer to page 16 ("Seek").

## List

You can play the desired file by searching in the files list in the iPod Menu.

1. Press [List].



2. Press the desired file after searching for [Playlist], [Artist], [Song] or [More].

### Note

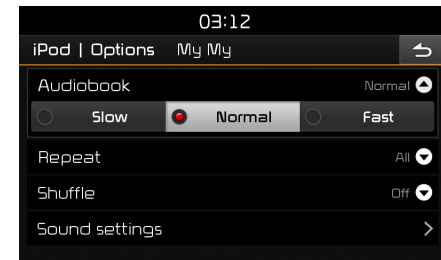
- Rotate "↶" to scroll up or down.
- Press [←] to move to the previous screen.

## Setting audiobook playback speed

Setting the playback speed only affects audio books purchased from the iTunes store or audible.com.

For details about iPod, refer to the iPod User Guide.

1. Press [Options] > [Audiobook].



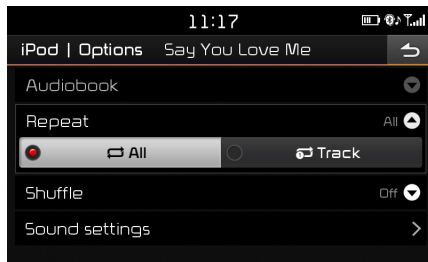
2. Select the desired items.
  - [Slow]: Plays the audiobook with slow speed.
  - [Normal]: Plays the audiobook with original speed.
  - [Fast]: Plays the audiobook with fast speed.

# iPod Operation

## Repeat

This function provides the possibility to play a set of files repeatedly.

1. Press [Options] > [Repeat].



2. Press the desired item.
  - [All]: Repeats the whole files list.
  - [Track]: Repeats the current file, only.

### Note

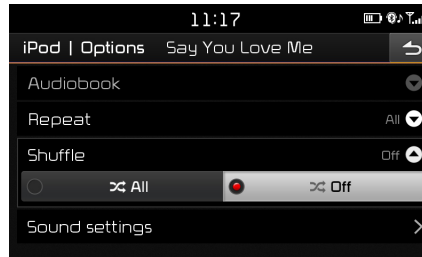
You can also set the Repeat functions by pressing [⏮/⏭] on the playing screen.

⏮: All, ⏭: Track.

## Shuffle

Playing files in random order:

1. Press [Options] > [Shuffle].



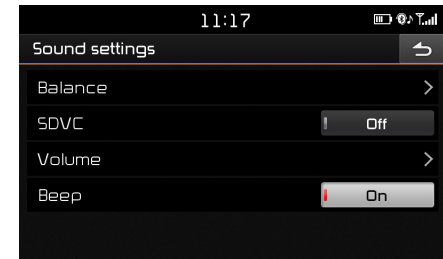
2. Press the desired item.
  - [All]: Plays all files randomly.
  - [Off]: Cancels the shuffle function.

### Note

You can set or cancel the Shuffle function by pressing [⏮/⏭] on the playing screen.

## Sound settings

1. Press [Options] > [Sound settings].

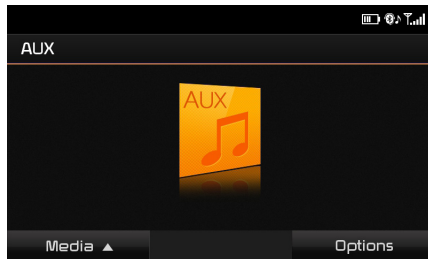


2. For details refer to page 33 ("Sound").

# Auxiliary device operation

## Playing an AUX source

1. Connect an auxiliary device to the AUX terminal.



2. Play the auxiliary device.

### Note

- Some auxiliary devices that do not have the video source may not produce output to the video screen.
- To play auxiliary device while a different source is playing, press [MEDIA] > [Media▲] > [AUX].
- Video is not available while driving. (Because of traffic regulations, Aux Video is only available when your vehicle is parked.)

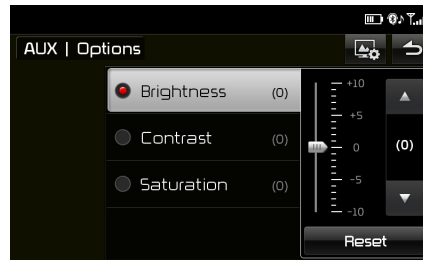


## Switching to menu screen or full screen during video playback

Press the screen repeatedly during video playback.

## Display settings

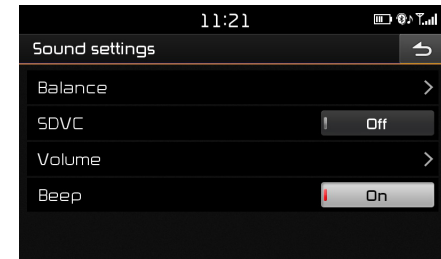
1. Press [Options] during video playback.



2. Press the desired item.
3. Adjust [Brightness], [Contrast] or [Saturation] by pressing [▲/▼]. Press [Reset] to initialise the settings.

## Sound settings

1. Press [Options] during audio playback.



2. For details refer to page 33 ("Sound").

# Bluetooth audio

## Playing Bluetooth audio

### Before playing the Bluetooth audio

- Music saved in the mobile phone can be played in the car through Bluetooth audio streaming.
- Bluetooth audio can be played only when a Bluetooth phone or Bluetooth audio device has been connected. To play Bluetooth audio, connect the Bluetooth phone to the car system. For more information on connecting Bluetooth, please refer to the user's manual [Pairing and connecting the unit and a Bluetooth phone] on page 48.
- If Bluetooth is disconnected while playing Bluetooth audio, the audio stream will be interrupted.
- The audio streaming function may not be supported in some mobile phones. Only one function can be used at a time, either the Bluetooth handsfree or the Bluetooth audio function. For example, if you convert to the Bluetooth handsfree while playing Bluetooth audio, the music stream is interrupted.
- Playing music from the car is not possible when there are no music files saved in the mobile phone.

### Starting the Bluetooth audio

1. Press [MEDIA] > [Media▲] > [Bluetooth Audio].
2. The Bluetooth audio screen is displayed.



#### ! Note

To play bluetooth audio while a different source is playing, press [MEDIA] > [Media▲] > [Bluetooth Audio].

### Pause

Press [||] during playback.  
Press [▶] to play it again.

#### ! Note

This feature may not be supported in some Bluetooth devices.

### Skip

You can play the previous or next file.  
For details refer to page 16 ("Skip").

#### ! Note

This feature may not be supported in some Bluetooth devices.

### Sound settings

1. Press [Options] > [Sound settings].
2. For details refer to page 33 ("Sound").

# Getting started with navigation

## Precautions for safe driving

Please observe and comply with local traffic rules and regulations.

- For your safety, some features cannot be operated while driving. Features that cannot be operated will be disabled.
- The route displayed for destination guidance is a reference and the route guidance will take you to the vicinity of your destination. The highlighted route is not always the shortest distance, the least congested, and in some cases might, not be the fastest route.
- Road, name, and POI information may not always be completely updated. It might happen that road names and POI information is not up to date.
- The car position mark does not always indicate your exact location. This system uses GNSS information, various sensors, and road map data to display the current position. However, errors in displaying your location may occur if the satellite is transmitting inaccurate signals or two or less satellite signals can be received. Errors that occur in such conditions cannot be corrected.

- The position of the vehicle within the navigation may differ from your actual location depending on various reasons, including the satellite transmission state, vehicle state (driving location and conditions), etc. Additionally, the car position mark may differ from the actual position if the map data is different from the actual road landscape, such as changes due to the construction of new roads. If such differences occur, driving for a short period of time will automatically correct the position of the vehicle through map matching or GNSS information.

## What is GNSS?

The GNSS(Global Navigation Satellite System) is a satellite-based navigation system made up of a network of 32 satellites placed into orbit by the Global Positioning System (GPS) of U.S.A, GLONASS of RUSSIA, etc.

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

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

## About satellite signals

Your unit must acquire satellite signals to operate. If you are indoors, near tall buildings or trees or in a parking garage, the unit cannot acquire satellite signals.

## Acquiring satellite signals

Before the unit can determine your current position and navigate a route, you must do the following steps:

1. Go outside to an area free from tall obstructions.
2. Turn on the unit.

Acquiring satellite signals can take a few minutes.

## Initial navigation screen

When you enter a navigation mode for the first time, the caution screen is displayed on the screen. Read the caution carefully and then press [Agree].

- If you want to change the system language, press [Language]. For details refer to page 35 ("Language").
- If there is no operation for 10 seconds in the caution screen the system automatically switches to the navigation screen.



# Bluetooth® Wireless Technology

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## Before Using the Bluetooth Handsfree

### What is Bluetooth Wireless Technology?

- Bluetooth Wireless Technology refers to a short-distance wireless networking technology which uses a 2.45GHz frequency to connect various devices within a certain distance.
- Supported within PCs, external devices, Bluetooth phones, PDAs, various electronic devices, and automotive environments, Bluetooth Wireless Technology to be transmitted at high speeds without having to use a connector cable.
- Bluetooth Handsfree refers to a device which allows the user to conveniently make phone calls with Bluetooth mobile phones through the system.
- The Bluetooth Handsfree feature may not be supported in some mobile phones.

### Precautions for Safe Driving

- Bluetooth Handsfree is a feature that enables drivers to practice safe driving. Connecting the head unit with a Bluetooth phone allows the user to conveniently make calls, receive calls, and manage the phone book. Before using Bluetooth Wireless Technology, carefully read the contents of this user's manual.
- Excessive use or operations while driving may lead to negligent driving practices and be the cause of accidents. Do not operate the device excessively while driving.
- Viewing the screen for prolonged periods of time is dangerous and may lead to accidents. When driving, view the screen only for short periods of time.

### Cautions upon Connecting Bluetooth Phone

- Before connecting the head unit with the mobile phone, check to see that the mobile phone supports Bluetooth features.
- If you do not want automatic connection with your Bluetooth device, turn the Bluetooth feature off of the Bluetooth device.

- Park the vehicle when pairing the head unit with the mobile phone.
- Some Bluetooth features may occasionally not operate properly depending on the firmware version of your mobile phone. If such features can be operated after receiving a S/W upgrade from your mobile phone manufacturer, unpair all devices and pair again before use.

# Bluetooth® Wireless Technology

## Pairing and connecting the unit and a Bluetooth phone

To use the Bluetooth feature, make sure the Bluetooth on your phone is turned on. Refer to your phone's user guide.

### When no phones have been paired

1. Press "☘" on the head unit or the steering wheel remote control.
2. Press [Yes] to search for Bluetooth phones.
  - [No]: Cancels Bluetooth connection.
  - [Help]: Moves to the [Bluetooth help] menu.
3. In your phone, initiate a search for Bluetooth devices. (The default device name is KIA MOTORS.)
4.
  - 1) If the SSP (Secure Simple Pairing) is not supported, enter the passkey on your Bluetooth device. (The default passkey is 0000.)
  - 2) If the SSP (Secure Simple Pairing) is supported, press [Yes] on the pop-up screen of your Bluetooth device. (The pop-up screen may differ from the actual information of the Bluetooth device.)

5. Bluetooth becomes connected.

The mobile phone contacts and the calling list are downloaded.

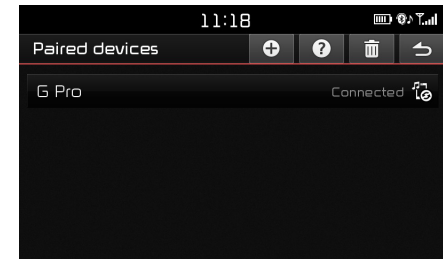
When the connection fails, failure message is displayed on the screen.

### When a phone is already paired

1. Press "☘" on the head unit or the steering wheel remote control.
2. Press the device from the Bluetooth device list pop-up screen.
3. Press [Yes] to activate the selected device. If you want to pair additional device, press [Add new]. Follow the steps 3-5 of "When no phones have been paired".

### When pairing additional device

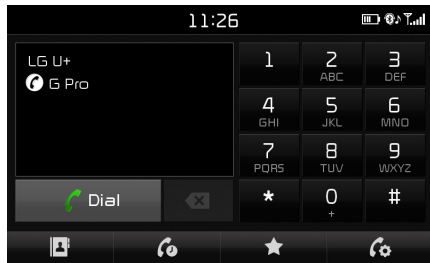
1. Press [⚙️] > [Bluetooth] > [Paired devices].



2.
  - 1) Select the device you want to connect.
  - 2) If there is no device you want to connect, press [⊕].
3. In your phone, initiate a search for Bluetooth devices. (The default device name is KIA MOTORS.)
4.
  - 1) If the SSP (Secure Simple Pairing) is not supported, enter the passkey on your Bluetooth device. (The default passkey is 0000.)
  - 2) If the SSP (Secure Simple Pairing) is supported, press [Yes] on the pop-up screen of your Bluetooth device. (The pop-up screen may differ from the actual information of the Bluetooth device.)

# Bluetooth® Wireless Technology

- When your phone is successfully connected, the phone menu is displayed on the screen. When the connection fails, failure message is displayed on the screen.



<Phone screen>

Once Bluetooth connection is successful, the name of the connected mobile phone will be displayed on the phone screen and Bluetooth handsfree functions will be ready to be operated.

### ! Note

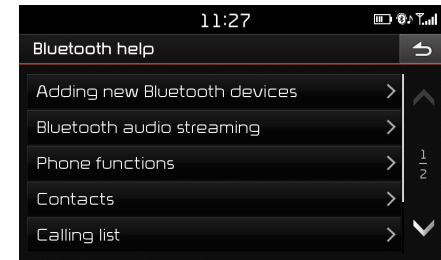
- For safety reasons, pairing a Bluetooth phone is not possible when the vehicle is in motion. Park the vehicle in a safe location to pair a Bluetooth phone. It is possible to pair up to 5 mobile phones. In order to pair a new phone when there are already 5 mobile phones paired, you must first delete one of the previously paired phones.

- Some functions may not be supported due to limited Bluetooth compatibility between the car system and mobile phone.
- When a Bluetooth device is connected, a new device cannot be paired. If you want to pair a new phone, first disconnect the connected Bluetooth device.

### Bluetooth help

This menu provides help concerning the usage of Bluetooth functions.

- Press [🔧] on the phone screen.
- Press [Paired devices] > [?].

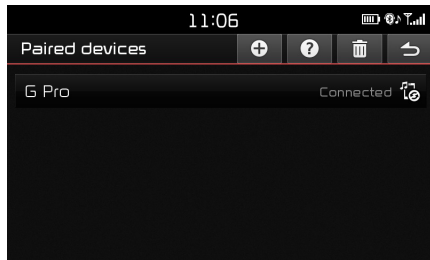


- Select the desired items.

# Bluetooth® Wireless Technology

## Disconnecting the connected phone

1. Press [Settings] > [Bluetooth] > [Paired devices].



2. Select the connected phone.



3. Press [Yes].

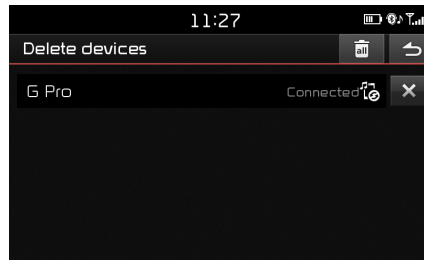
### Note

If you want to connect the disconnected phone again, select the disconnected phone.

## Deleting Bluetooth Devices

If you do not need to use a phone any longer, you can delete it. Note that deleting a Bluetooth device will delete all calling list and contact entries.

1. Press [Settings] > [Bluetooth] > [Paired devices] > [Delete].



2. Press [X] > [Yes].  
Press [Delete] > [Yes] to delete all devices.

## Making a call by entering phone number

Connect your unit and Bluetooth phone before making a call.

1. Enter the phone number using the keypad on the phone screen.
2. Press [Dial] on the phone screen or "↶" on the steering wheel remote control.

### Note

If you press the wrong number, press [X] to delete one digit of the entered number.

## Making a call by redialing

Press and hold [Dial] on the phone screen or "↶" on the steering wheel remote control.

### Note

Redialing is not possible when there is no dialled calls list.

# Bluetooth® Wireless Technology

## Answering/Rejecting a call

1. If there is an incoming call, a popup message will appear.
2. Press [Accept] to answer the call.  
To reject a call, select [Reject].

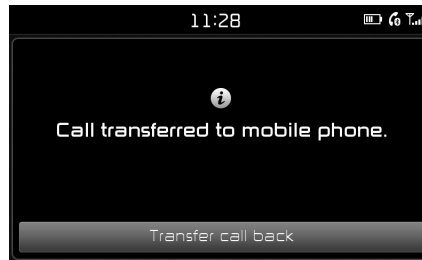
### ! Note

- If the Call-ID service is available, the caller's phone number is displayed.
- If caller's phone number is saved in the phone book, the caller's name is displayed on the unit.
- Upon receiving a call, the [Reject] function may not be supported in some mobile phones.

## Switching call to the mobile phone

1. If you want to switch the call to the mobile phone while talking on the car handsfree, press [↶].

As shown below, the call is switched to the mobile phone.



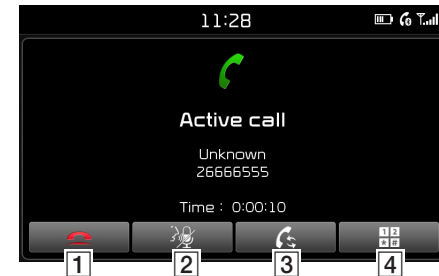
2. If you want to switch the call to the car handsfree while talking on the mobile phone, press [Transfer call back].  
The call is switched to the car handsfree.





## Ending a call

1. To end a call, press [End call] on the phone screen or "⏏" on the steering wheel remote control.
2. The call is ended.

## Using the menu during a phone call

When making a call, you can use the following menu items.



| Position   | Description   |
|--|---|
| 1   | Ends a call.  |
| 2   | Turns the Mic On/Off.   |
| 3   | Switches a voice call from the car handsfree to the mobile phone. |
| 4  | Moves to a screen for entering ARS numbers.                       |

# Bluetooth® Wireless Technology

## Calling list

### Making a call from calling list

1. Press  on the phone screen.



2. Press [All], [Missed], [Received] or [Dialled].
  - [All]: Displays all calling list.
  - [Missed]: Displays the missed calling list.
  - [Received]: Displays the incoming calling list.
  - [Dialled]: Displays the outgoing calling list.
3. Press the entry you want to call.

#### Note

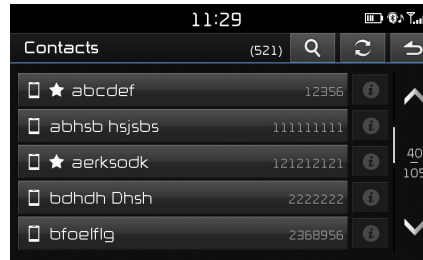
The calling list may not be saved in some mobile phones.

## Contacts

### Making a call from contacts

1. Press  on the phone screen.

The contacts are displayed on the screen.



<Contacts screen>

2. Select the contact you want to call from the list of contacts.

## Updating mobile phone contacts

Up to 5,000 mobile phone contacts can be updated.

1. Press  on the contacts screen.

The contacts are deleted and the contacts of the connected phone is duplicated.

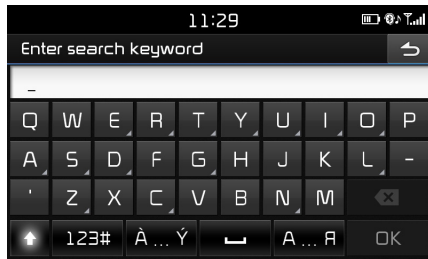
#### Note

- Upon updating mobile phone contacts, the previous data is deleted.
- This feature may not be supported in some mobile phones.

# Bluetooth® Wireless Technology

## Searching for contacts

1. Press [C] on the contacts screen.



2. Enter the name, press [OK].
3. Select the contact you want to call.

## Favourites

### Calling Favourites

If the phone number has already been stored in the Favourites, it can be easily called by tapping on it.

First of all, add the phone number in the Favourites. Refer to the “Adding as a Favourite” on page 53.

1. Press [★] on the phone screen.



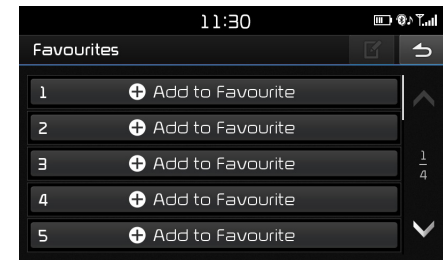
<Favourite screen>

2. Select the desired favourite.

## Adding as a Favourite

Up to 20 contacts can be added to [Favourites] menu.

1. Press [★] on the phone screen.



2. Press [Add to Favourite].

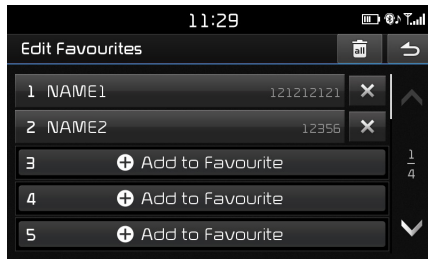


3. Select the desired items.
4. Select one of the contacts.
5. Enter favourite name, then, press [OK].

# Bluetooth® Wireless Technology

## Deleting favourites

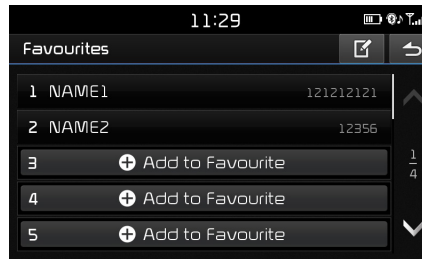
1. Press [★] > [📄] on the phone screen.



2. Press [X] > [Yes].  
Press [🗑️] > [Yes] to delete all favourites.

## Changing the favourites name

1. Press [★] > [📄] on the phone screen.



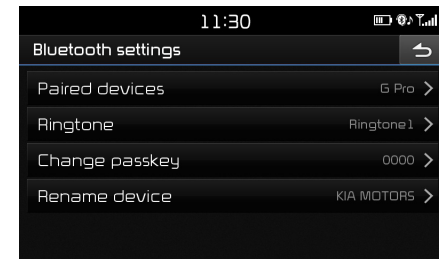
2. Press the desired contact.



3. Enter new name, then press [OK].

## Bluetooth settings

1. Press [⚙️] on the phone screen.

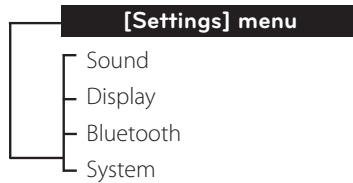


2. For details refer to page 34 ("Bluetooth").



# Settings

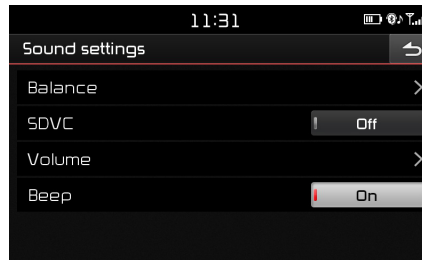
## [Settings] menu overview



## Sound

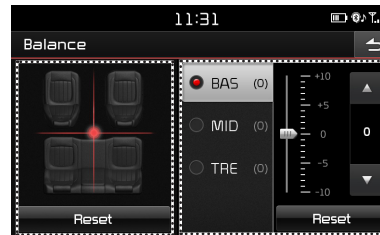
This menu is used to adjust the sound effects for the whole system.

1. Press [⚙️] > [Sound].



2. Select the desired items.

- [Balance]: Shows the sound control options for Position and Bass/Mid/Treble.



↑  
Position

↑  
Bass/Mid/Treble

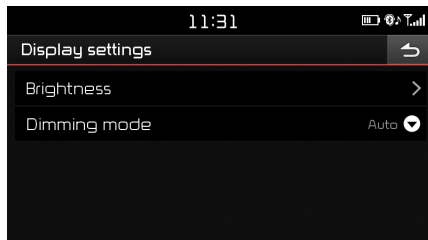
- [Position]: Select the position of sound focus. Press [Reset] to concentrate the sound in the centre of the vehicle.
- [BAS/MID/TRE]: Press [▲]/[▼] to control bass/mid/treble settings. Press [Reset] to initialise the settings.
- [SDVC]: This menu allows you to control automatically the audio volume according to the speed of the vehicle. Select [On] or [Off].
- [Volume]: Shows the volume control for each option.
  - [Phone]: Controls the volume related to phone. Press [▲]/[▼].
  - [Start up]: Controls the audio volume when starting the system. Press [▲]/[▼].
  - [Info]: Controls the volume related to pop-up information. Press [▲]/[▼].
  - Press [Reset] to initialise the settings.
- [Beep]: This menu allows you to play a beep sound whenever you operate the touch screen. Select [On] or [Off].

# Settings

## Display

This menu is used to adjust the brightness and set the dimming mode for the whole system.

1. Press [⚙️] > [Display].



2. Select the desired items.
  - [Brightness]: Select [Daylight] or [Night], then Press [▲/▼] to control the brightness. Press [Reset] to initialise the settings. (Daytime brightness default is "10". Night time brightness default is "5".)
  - [Dimming mode]: Sets the display brightness according to mode changes.
    - [Auto]: Adjusts the brightness automatically according to surrounding brightness.
    - [Daylight]: Always keeps the brightness high regardless of surrounding brightness.

- [Night]: Always keeps the brightness low regardless of surrounding brightness.

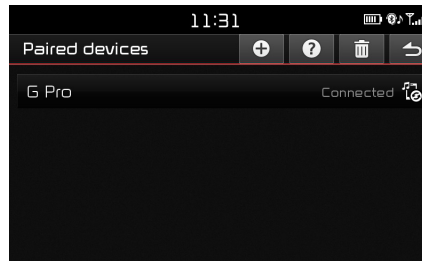
## Bluetooth

This menu describes Bluetooth settings.

### Paired devices

This menu is used to pair and connect the head unit and a Bluetooth phone.

1. Press [⚙️] > [Bluetooth] > [Paired devices].



2. Follow the steps 2-5 of the "When pairing additional device" on page 26.

## Ringtone

The configured ringtone is played through the vehicle speakers when you receive a call.

1. Press [⚙️] > [Bluetooth] > [Ringtone].



2. Select the desired ringtone.

# Settings

## Change passkey

You can change the passkey used for Bluetooth device authentication.

1. Press [⚙️] > [Bluetooth] > [Change passkey].



2. Enter the passkey using the keypad.

### ! Note

The passkey is a 4-digit authentication code used for a Bluetooth connection between the mobile phone and car system. The default passkey is set to 0000.

## Rename device

You can change the Bluetooth device name of the vehicle.

1. Press [⚙️] > [Bluetooth] > [Rename device].



2. Enter the desired name using the keypad, then press [OK].

### ! Note

The default device name is set to KIA MOTORS.

## System

### Language

This menu is used to set the language of the system.

1. Press [⚙️] > [System] > [Language].



2. Select the desired language.

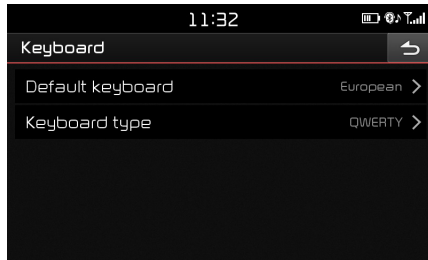
# Settings

## Keyboard

This menu is used to configure the keyboard layout for each language.

Configured keyboard layouts are applied to all input modes.

1. Press [⚙️] > [System] > [Keyboard].

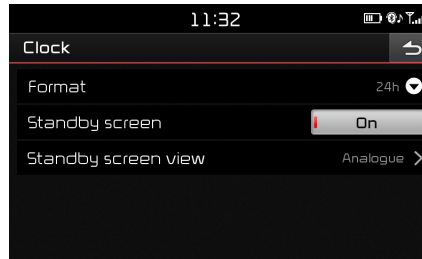


2. Select the keyboard type.

## Clock

This menu describes clock settings.

1. Press [⚙️] > [System] > [Clock].

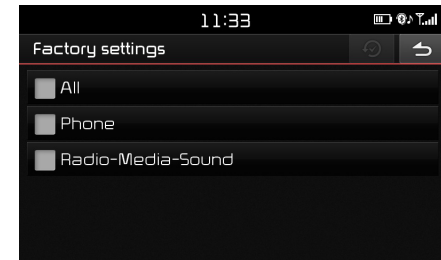


2. Press the desired item.
  - [Format]: This function is used to convert the digital clock display between 12 hour/24 hour systems. Select [12h] or [24h].
  - [Standby screen]: This menu is used to select the screen displayed when the system power is turned off. Select [On] or [Off].
  - [Standby screen view]: This menu is used to set the type of clock displayed when the system power is turned off. Select [Analogue] or [Digital].

## Factory settings

This menu is used to reset all settings specified by the user.

1. Press [⚙️] > [System] > [Factory settings].



2. Press the desired items.
  - Press [All] to select all above mentioned menus.
  - [Phone]: Resets all settings related to [Phone] menu.
  - [Radio-Media-Sound]: Resets all settings related to [Radio-Media-Sound] menu.
3. Press [↺].



# Using rear camera - Option

## About Rear Camera

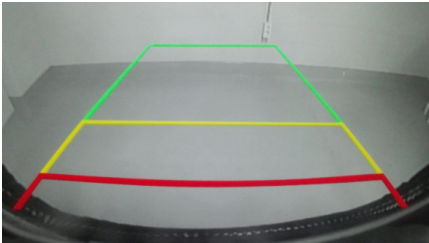
- Rear camera is an option for the customers who selected the option.
- In this instrument, for the safety of the user, a rear camera that can secure the rear view during the backward driving is connected.
- After the vehicle is started, if the transmission lever is put to R, the rear camera power is automatically turned on, and the rear camera starts to operate.
- If you change the transmission lever location from R to another position, rear camera stops.

**! Note**

Rear camera has an optical lens to secure wide view, so there is a little difference in the distance shown on the screen. For safety, make sure to check the rear, left, and right view by yourself.

## Turning on the rear camera

1. When the vehicle is started, put the transmission lever to R position.



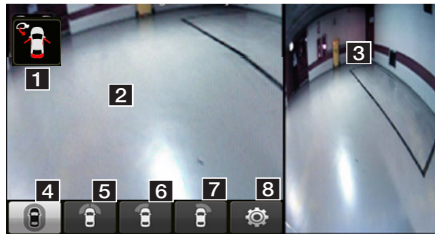
## AVM (Around View Monitor) - Option

### About AVM (Around View Monitor)

- AVM (Around View Monitor) is an option that is provided to the customers who selected the option.
- Through the 4 cameras installed in the vehicle, it provides the front, rear, left and right views of the vehicle.
- While vehicle is started, if gear is put to R position, it automatically starts AVM (Around View Monitor).
- If gear is changed from R to P position, AVM (Around View Monitor) operation stops.

### Operating front AVM

After starting the vehicle, if you press [AVM] after putting gear to N or D, front AVM starts.



- 1 Warning display: driver seat/front passenger seat door and side mirror, and trunk open status are displayed.

- 2 Front camera screen: screen of the front of the vehicle is displayed through camera.
- 3 AVM side camera screen: According to the selected display contents, it displays AVM or left or right side screen.
- 4 (Front + AVM display): It displays vehicle's front screen and all direction (AVM) screens at the same time.
- 5 (Front display): It only displays vehicle's front screen.
- 6 (Front + left side display): It displays the vehicle's front screen and left front screen at the same time.
- 7 (Front + right side display): It displays the vehicle's front screen and right side screen at the same time.
- 8 (AVM setting): It displays AVM setting menu.

#### ! Note

While front AVM is running, if you drive at about 20 km/h or more, AVM is turned off. At this state, even if you drive at about 20 km/h or less, AVM is remained at OFF state.


### Operating rear AVM


After starting the vehicle, if you put gear at R position, rear AVM starts.




- 1 Warning display: driver seat/front passenger seat door and side mirror, and trunk open status are displayed.
- 2 Rear camera screen: screen of the rear of the vehicle is displayed through camera.
- 3 AVM side camera screen: According to the selected display contents, it displays AVM or left or right side screen.
- 4 (Rear + AVM display): It displays vehicle's rear screen and all direction (AVM) screens at the same time.
- 5 (Rear display): It only displays vehicle's rear screen.

## AVM (Around View Monitor) - Option

6  (Rear + left side display): It displays the vehicle's rear screen and left rear screen at the same time.


7  (Rear + right side display): It displays the vehicle's rear screen and right rear screen at the same time.

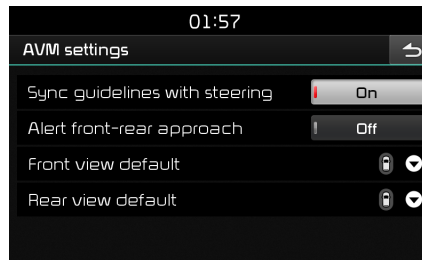
8  (AVM setting): It displays AVM setting menu.

### Note

AVM (Around View Monitor) camera has an optical lens to secure wide view, so there is a little difference in the distance shown on the screen. For safety, make sure to check the rear, left, and right view by yourself.

### AVM setting

By pressing , you can adjust AVM settings.




- [Sync guidelines with steering]: Sets the guide line steering interface on/off.
- [Alert front-rear approach]: Sets the warning for approaching an obstacle on/off.
- [Front view default]: Sets the front camera's screen as initial view. (Around view, front view, driver seat side front, and front passenger seat side front)
- [Rear view default]: Sets the rear camera's screen as initial view. (Around view, rear view, driver seat side rear, and front passenger seat side rear)


### Warning display




#### Driver's door open indicator

When the driver's door is open,  (red colour on left door) indicator is displayed on the top left of the screen.


#### Front passenger's door open indicator

When the front passenger's door is open,  (red colour on right door) indicator is displayed on the top left of the screen.

#### Trunk open indicator

When trunk is open,  (red colour on trunk) indicator is displayed on the top left of the screen.

#### Side mirror folding indicator

When the side mirror is folded,  (side mirror) indicator is displayed on the top left of the screen.

## Before thinking there is a product defect

### **The current car position as shown on the navigation may differ from the actual position under the following conditions.**

- When driving on Y-shaped roads with narrow angles, the current position may be displayed in the opposite direction.
- Within city streets, the current position may be displayed on the opposite side or on an off-road position.
- When changing the zoom level from maximum to a different level, the current position may become displayed on a different road.
- If the vehicle is loaded onto a ferry or a car transport vehicle, the current position may become stalled on the last position prior to loading.
- When entering a road after passing an underground parking structure, building parking structure or roads with many rotations.

- When driving in heavy traffic with frequent starts and stops.
- When driving under slippery conditions, such as heavy sand, snow, etc..
- When the tires have recently been replaced (Especially upon use of spare or studless tires).
- When using tires of improper size.
- When the tire pressure for the 4 tires are different.
- When the replacement tire is worn or used (Especially studless tires having passed a second season).
- When driving near high-rise buildings.
- When a roof carrier has been installed.
- When a long distance route is calculated while driving on an expressway, in such cases, continued driving will automatically enable the system to conduct map matching or use updated GNSS information to provide the current position (In such cases, up to several minutes may be required).

### **Correct route guidance may not occur due to search conditions or driving position. The following occurrences are not malfunctions:**

- Guidance to go straight may be given while driving on a straight road.
- Guidance may not be given even when having turned at an intersection.
- There are certain intersections in which guidance may not occur.
- A route guidance signaling for a u-turn may occur in some No u-turn intersections.
- Route guidance signaling entrance into a No-entry zone may occur (No-entry zone, road under construction, etc.).
- Guidance may be given to a position that is not the actual destination if roads to reach the actual destination do not exist or are too narrow.
- Faulty voice guidance may be given if the vehicle breaks away from the designated route. (e.g. if a turn is made at an intersection while the navigation provided guidance to go straight.)





## Before thinking there is a product defect

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**These situations may occur after conducting route calculation. The following occurrences are not malfunctions:**

- Guidance may be given to a position differing from the current position when turning at an intersection.
- When driving in high speeds, route recalculation may take a longer period of time.

## Before thinking there is a product defect

1. Errors which occur during the operation or installation of the device may be mistaken as a malfunction of the actual device.
2. If you are having problems with the device, try the suggestions listed below.
3. If the problems persist, contact your dealer.

| Problem  | Possible Cause  |
|--|---|
| There are small red, blue or green dots on the screen.               | Because the LCD is manufactured with technology requiring high point density, a pixel or lighting deficiency may occur within 0.01% of total pixels.  |
| The sound or image is not working.                                   | <ul style="list-style-type: none"><li>• Has the Switch for the vehicle been turned to [ACC] or [ON]?</li><li>• Has the SYSTEM been turned OFF?</li></ul>  |
| The screen is being displayed but sound is not working.              | <ul style="list-style-type: none"><li>• Has the volume been set to a low level?</li><li>• Has the volume been muted?</li></ul>  |
| When the power is turned on, the corners of the screen are dark.     | <ul style="list-style-type: none"><li>• The display appearing somewhat dark after prolonged periods of use is normal with LCD panels. It is not a malfunction.</li><li>• If the screen is very dark, contact your nearest dealer for assistance.</li></ul>  |
| Sound is working from only one speaker.                              | Are the positions of Fader or Balance sound controls adjusted to only one side?   |
| Sound does not work in AUX mode.                                     | Are the audio connector jacks fully inserted into the AUX terminal?   |
| The external device is not working.                                  | Is the external device connected with a standard connector cable?   |
| When turning power on, the most recent mode screen is not displayed. | <p>Within modes that play files by reading external sources, such as USB, iPod or Bluetooth® streaming mode, the most recently played mode screen prior to turning off power may not properly load.</p> <ul style="list-style-type: none"><li>• If the corresponding device is not connected, the mode operated prior to the most recent mode will operate.</li><li>• If the previous mode still cannot be properly played, the mode operated prior to that will operate.</li></ul> |



# Troubleshooting

| Problem                                | Possible Cause  | Countermeasure  |
|--|---|---|
| The power does not turn on.            | The fuse is disconnected.   | <ul style="list-style-type: none"><li>• Replace with a suitable fuse.</li><li>• If the fuse is disconnected again, please contact your point of purchase or service center.</li></ul> |
|  | Device is not properly connected.   | Check to see that the device has been properly connected.   |
| The system does not play.              | The vehicle battery is low.   | Charge the battery if the problem persists, contact your point of purchase or service center.   |
| The image colour/ tone quality is low. | The brightness, saturation, and contrast levels are not set properly.                 | Properly adjust the brightness, saturation, and contrast levels through Display Setup.  |
| Sound does not work.                   | The volume level is set to the lowest level.  | Adjust the volume level.  |
|  | The connection is not proper.   | Check to see that the device has been properly connected.   |
|  | The device is currently fast-forwarding, rewinding, scanning or playing in slow mode. | The sound will not work when the device is fast-forwarding, rewinding, scanning or playing in slow mode.  |

## Troubleshooting

| Problem   | Possible Cause  | Countermeasure  |
|---|---|---|
| The sound or image quality is low.                            | Vibration is occurring from where the conversion switch has been installed. | The sound may be short circuited and the image distorted if the device vibrates.                |
|   | Image colour/tone quality is low.   | The device will return to normal once vibrations stop.  |
| The USB does not work.  | USB memory is damaged.  | Please use after formatting the USB into FAT 12/16/32 format.                                   |
|   | USB memory has been contaminated.   | Remove any foreign substances on the contact surface of the USB memory and multimedia terminal. |
|   | A separately purchased USB HUB is being used.                               | Directly connect the USB memory with the multimedia terminal on the vehicle.                    |
|   | A USB extension cable is being used.  | Directly connect the USB memory with the multimedia terminal on the vehicle.                    |
|   | A USB which is not a Metal Cover Type USB Memory is being used.             | Use standard USB Memory.  |
|   | An HDD type, CF, SD Memory is being used.                                   | Use standard USB Memory.  |
|   | There are no music files which can be played.                               | Only MP3, WMA file formats are supported. Please use only the supported music file formats.     |
| The iPod is not recognised even though it has been connected. | There are no titles which can be played.                                    | Use iTunes to download and save MP3 files into the iPod.  |
|   | The iPod firmware version has not been properly updated.                    | Use iTunes to update the firmware version and reconnect the iPod with the device.               |
|   | The iPod device does not recognise downloads.                               | Reset the iPod and reconnect with the device.   |



# Trademarks and Licenses

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## iPod®

iPod® is a registered trademark of Apple Inc.

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LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for three (3) years from the date on which you purchased the product.

## Specification

|           |                                   |  |
|-----------|-----------------------------------|--|
| Common    | Power Supply                      | DC 14.4V   |
|           | Operating Power                   | DC 9V ~ DC 16V   |
|           | Current Consumption               | Maximum 14 A   |
|           | Dark Current                      | Maximum 1 mA   |
|           | Operating Temperature             | -20 °C ~ +70 °C  |
|           | Storage Temperature               | -40 °C ~ +85 °C  |
|           | Dimensions (Head unit)            | 261.4 (W) X 173.4 (H) X 203.5 (D)  |
|           | Weight (Head unit)                | 2.2 kg   |
| Bluetooth | Supported Profile                 | A2DP 1.3, AVCTP 1.4, AVDTP 1.3, AVRCP 1.5, GAP 4.0, GAVDP 1.3, HFP 1.6, HSP 1.2, PBAP 1.2, SDP 4.0, RF 4.0, RF-PHY 4.0 |
|           | Supported Bluetooth Specification | 3.0  |
|           | Frequency Range                   | 2402 MHz ~ 2480 MHz  |
|           | Number of Channels                | 79   |

|         |                       |  |
|---------|-----------------------|--|
| Radio   | AM                    |  |
|         | Tuning range          | 531 kHz ~ 1602 kHz   |
|         | Usable Sensitivity    | 35 dBuV  |
|         | Signal-to-noise ratio | Minimum 45 dB  |
|         | FM                    |  |
|         | Tuning range          | 87.50 MHz ~ 108.00 MHz   |
|         | Usable Sensitivity    | 10 dBuV  |
|         | Signal-to-noise ratio | Minimum 50 dB  |
| TFT-LCD | Screen Size           | 177.73mm (7 inches)<br>152.4 (W) x 91.44 (H) mm<br>(Active area) |
|         | Resolution            | 384,000 pixel  |
|         | Operating Method      | TFT (Thin Film Transistor)                                       |
|         | Viewing Angle         | R/L 65/65 (Min), U/D 55/45 (MIN)                                 |
|         | Internal Lighting     | LED  |

- Designs and specifications are subject to change without prior notice.

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# **LIMITED WARRANTY**

## **ORIGINAL NAVIGATION HEAD UNIT SUPPLIED BY VEHICLE DEALER**

Product :

Product No. :

### **WHAT THIS WARRANTY COVERS**

1. Vehicle Dealer Shop ("Dealer") warrants to you that the Hardware will be free from defects in workmanship and materials under normal use ("Defects") for a period of three (3) years/60,000km from the date that the Hardware was first installed by DEALER ("Warranty Period"). During the Warranty Period the Hardware will be repaired or replaced at DEALER's choice ("Limited Warranty") without charge to you for either parts or labor. This Limited Warranty covers the replacement of the head unit including of the Hardware only.

### **WHAT THIS WARRANTY DOES NOT COVER**

2. The Limited Warranty does not apply to normal wear and tear, does not apply when the Hardware is opened or repaired by someone not authorized by DEALER and does not cover repair or replacement of any Hardware or part thereof damaged by: misuse, moisture liquids, proximity or exposure to heat and accident, abuse, non-compliance with the instructions supplied with the Hardware, neglect or misapplication. The Limited Warranty does not cover physical damage to the surface of the Hardware. This Limited Warranty does not cover any software that may accompany or be installed on the Hardware. The Limited Warranty does not cover the installation, removal or maintenance of the Hardware or any costs related herewith.

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## HOW TO MAKE A WARRANTY CLAIM

3. In order to make a claim of a Defect, you must contact DEALER. If a defect arises and a valid claim under this Limited Warranty is received by DEALER after the first 3yrs/60,000km of the Warranty Period, DEALER is entitled to charge you for any reasonable shipping and handling costs made in connection with the repair or replacement of the Hardware. You must comply with any other return procedures stipulated by DEALER, if any.

## DEALER LIMITED WARRANTY

### *YOUR LEGAL RIGHTS*

4. Some countries may not allow the exclusion or limitation of damages. If any part of this Limited Warranty is held to be invalid or unenforceable, the remainder of the Limited Warranty shall nonetheless remain in full force and effect.
5. This Limited Warranty is the only express warranty made to you and is provided in place of any other express warranties or similar obligations (if any) created by any advertising, documentation, packaging, or other communications.
6. Except for the Limited Warranty and to the maximum extent permitted by applicable law, DEALER and its suppliers provide the Hardware "AS IS AND WITH ALL FAULTS", and hereby disclaim all other warranties and conditions, whether express, implied or statutory, including, but not limited to, any (if any) implied warranties, duties or conditions of satisfactory quality, of fitness for a particular purpose, of reliability or availability, of accuracy or completeness of responses, of results, of workmanlike effort, of lack of viruses, and of reasonable care and skill, all with regard to the Hardware, and the provision of or failure to provide support or other services, information, software, and related content through the Hardware or otherwise arising out of the use of the Hardware. Also, there is no warranty or condition of quiet enjoyment, quiet possession, or non-infringement with regard to the Hardware.
7. This Limited Warranty does not affect any legal rights under applicable national legislation governing the sale of consumer goods.
8. This Limited Warranty cannot be transferred to any other person.



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## **LIMITATION OF LIABILITY**

9. Neither DEALER nor its suppliers shall be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise (including in each case, but not limited to, damages for the inability to use the equipment or access data, loss of data, loss of business, loss of profits, business interruption or the like) arising out of the use of or inability to use the Hardware even if DEALER has been advised of the possibility of such damages.
10. Notwithstanding any damages that you might incur for any reason whatsoever, the entire liability of DEALER and any of its suppliers shall be limited to the amount actually paid by you for the Hardware.
11. DEALER shall not be liable for
  - (l) any fraud on the part of its employees and/or agents; or
  - (l) any fraudulent misrepresentation on the part of its employees and/or agents.
12. Notwithstanding the above, neither party's liability for death or personal injury resulting from its own negligence shall be limited.

## **(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 the 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 and, if not installed and used in accordance with the instructions, 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 turn-ing the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an 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 in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

This equipment should be installed and operated with minimum 20 cm between the radiator and your body

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## **Support - HOTLINE**

Motrex Brazil Ltd  
E-mail : [survice@motrex.co.kr](mailto:survice@motrex.co.kr)