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 been 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 trans-

mission 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 land-scape, 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 42("Language").
- If there is no operation for 10 seconds in the caution screen the system automatically switches to the navigation screen.

Bluetooth® Wireless Technology

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 Multimedia 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 connecting 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 Connection

When no Phones Have Been Paired

Press the key on the steering wheel or press the key Press the ok.



Pairing from the Bluetooth® Device

Press the MENU button ▶ Press the Search from device





From the Bluetooth® device, search for the car name and pair the device. When searching from the Bluetooth® device, the car name is AVANTE and the default passkey is '0000'.

Pairing from the car

Press the MENU button ▶ Press the

Search from car ▶ Press the phone name to

pair ▶ Press the YES .





Bluetooth Connection

When a Phone is Already Paired

Press the key on the steering wheel or press the key Press the OK Press the phone name to pair Press the YES.



NOTE

 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.

When your phone is connected

Press the key on the steering wheel or press the key on the head unit to display the following screen.



NOTE

- 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.
- Some functions may not be supported due to limited Bluetooth compatibility between the car system and mobile phone.

Making/Answering Calls

Calling by Dialing a Number

Enter number on the Dial Pad ▶ Press the button or the key on the steering wheel.



NOTE

- If you press the wrong number, press to delete one digit of the entered number. Press and hold the dial pad 0 "+" to enter a "+".
- Press the button to search phone numbers.
 For detail, refer to the "Searching for contacts" on the page 33.

Making a Call from Speed Dial

Enter the 1 or 2 digit speed dial number with the Dial Pad ▶ Press and hold the last number.

Calling through Redial

Press and hold the button or Press the key on the steering wheel twice.

NOTE

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

Answering a Call

Incoming call notice Press the button or the key on the steering wheel.



Rejecting a Call

Incoming call notice Press the button or the key on the steering wheel.

Operating Menus during a Call



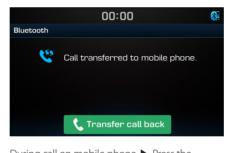


Ending a Call

While on a call ▶ Press the button or the key on the steering wheel.

Switching Call to Bluetooth® Phone

During handsfree call ▶ Press the ton or press and hold the key on the steering wheel



During call on mobile phone ▶ Press the

Call back button or press and hold the key on the steering wheel

Making 3 way call

While on a call ▶ Press the button. ▶

Press phone number you want to make a call ▶

Press the button.

Using the Menu Buttons

In Phone screen ▶ Press the MENU button to use Contacts , Calling list , Favorites , Bluetooth settings .



Contacts

Updating Mobile Phone Contacts

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



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

Making a call from contacts

In Contacts screen ▶ Press the MENU button ▶ Press the Contacts button ▶ Press the contact you want to call.



Searching for contacts





Calling list

Viewing Calling lists

In Phone screen ▶ Press the MENU button ▶
Press the Calling lists .



Press the MENU button on Calling list screen.

Button	Description	
1 All	Displays all calling list.	
2 Missed	Displays the missed calling list.	
3 Received	Displays the incoming calling list.	
4 Dialed	Displays the outgoing calling list.	

NOTE

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

Favourites

Calling Favourites

In Phone screen ▶ Press the MENU button ▶ Press the Favourites ▶ Press the Favourite you want to call.



Saving to Favourite

In Phone screen Press the Add to favourites button.



In Contacts screen or Calling list screen
Press and hold the contact you want to save
Press the Save to Favourites.



Deleting Favourites

In Favourites screen ▶ Press the MENU button ▶
Press the Delete all ▶ Press the OK .



In Favourites screen ▶ Press and hold the favourite you want to delete ▶ Press the Delete ▶ Press the OK .



Changing the Favourites name

In Favourites screen ▶ Press and hold the favourite you want to change ▶ Press the Rename ▶ Enter the name ▶ Press the OK.



Bluetooth settings

In Phone screen ▶ Press the MENU button ▶
Press the Bluetooth settings .



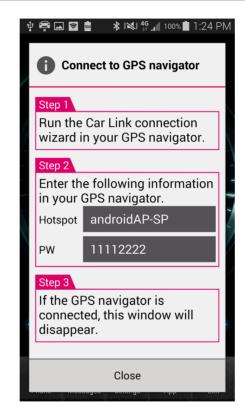
For details, refer to the "Bluetooth" on the page

Car Link

Before starting Car Link

Installing the Car Link Application

- Install the Car Link application into your mobile phone.
- Car Link application automatically turns on Wi-Fi Hotspot of Your mobile phone by pressing [Connection with navigation] button on connection setting screen of application.
- Following screen is displayed when Car Link is ready to connect.
- It is not possible to use Car Link feature and Bluetooth Audio at the same time. Bluetooth connection will be disconnected, when Car Link is connected.
- iPhone is not supported.
- For details, visit the Car Link website (http:// www.car-link.co.kr/motrex).



Starting mode



Car Link

Car Link Connection wizard

Car Link Connection wizard will start automatically and search Wi-Fi hotspots.



Press the Hotspot name.



Enter the Password ▶ Press the OK.



When your phone is successfully connected, the Phone screen is displayed on the screen of device.

You can use the Car Link features by adjusting both your mobile phone and the device.

Using the Quick Menu

Press the screen to display the Quick Menu of the device on the left on the screen.



Button	Description
1 MENU	Activates the Quick menu with on/ off button.
2 номе	Moves to the home screen of your smart phone.
3 5	Moves to the previous screen.
4	Displays the HOME screen of the device (HOME key)
<u>5</u>	Displays the options window.

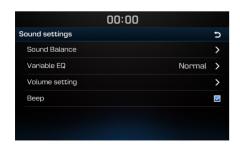
Starting mode

Press the key to display the Setup screen.



Sound

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



Sound Balance

In Sound settings screen ▶ Press the

Sound Balance ▶ Set the desired sound balance.



Use the ▲, ▼, ▶, and ♦ buttons to adjust settings.

Press the Reset to restore sound to the center position.

Variable EQ

In Sound settings screen ▶ Press the

Variable EQ ▶ Set the desired mode.



Volume setting

In Sound settings screen ▶ Press the

Volume setting ▶ Set the desired volume.



Button	Description	
1 Phone	Controls the volume related to phone.	
2 Start up	Controls the audio volume when starting the system.	

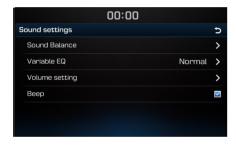
Use the \triangle , \checkmark and \spadesuit buttons to adjust settings.

Press the Rosot to initialize the settings.

Beep

This menu allows you to play a beep sound whenever you operate the touch screen.

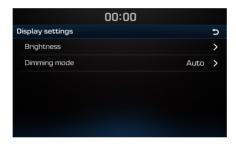
In Sound settings screen ▶ Press the Boop to turn on/off.



Display

This menu allows you to adjust the brightness and set the dimming mode for the whole system.

Press the ⊗ key ▶ Press the Display



Brightness

In Display settings screen ▶ Press the

Brightness ▶ Set the desired brightness.



Press the Reset to initialize the settings.

Dimming mode

This menu allows you to set the brightness according to mode changes.

In Display settings screen ▶ Press the

Dimming mode ▶ Set the desired mode.



Button	Description	
1 Auto	Adjusts the brightness automatically according to surrounding brightness.	
2 Day	Brightness level always set on high.	
3 Night	Brightness level always set on low.	

Bluetooth settings



Bluetooth connection

This menu allow you to manage the Bluetooth device list, such as pairing, connecting or deleting Bluetooth devices.

In Bluetooth settings screen ▶ Press the

Bluetooth connection ▶ Set the desired settings.



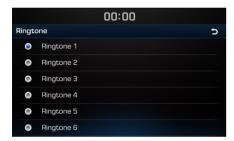


Press and hold the phone name to disconnect/delete the device.

Ringtone

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

In Bluetooth settings screen ▶ Press the Ringtone ▶ Set the desired ringtone.



Change passkey

This feature allows you to change the passkey used for Bluetooth device authentication.

In Bluetooth settings screen ▶ Press the Change passkey ▶ Enter the passkey.



NOTE

· The default passkey is 0000.

Changing device name

In Bluetooth settings screen ▶ Press the Change device name ▶ Enter the name.



NOTE

The default device name is AVANTE.

Auto Connection

The Bluetooth® device will automatically be connected according to the option set when the car ignition is turned on.

In Bluetooth settings screen ▶ Press the

Auto Connection to turn on/off.



System



Language

This menu allows you to set the language of the system.

In System settings screen ▶ Press the

Language ▶ Press the desired language.



Keyboard

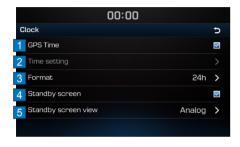
This option allows you to change the type of keyboard used within the system.

In System settings screen ▶ Press the Keyboard ▶
Press the desired language.



Clock

In System settings screen ▶ Press the Clock ▶ Set the desired settings.

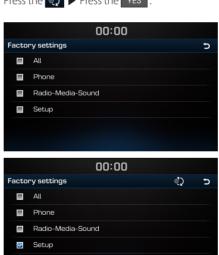


Button	Description	
1 GPS Time	Displays time according to the received GPS time.	
2 Time set- ting	Sets the current time.	
3 Format	Converts the digital clock display to 12 or 24 hours.	
4 Standby screen	Turns on/off the screen displayed when the system power is turned off.	
5 Standby screen view	Sets the type of Standby screen.	

Factory settings

This menu allows you to reset settings specified by the user.





Specification

USB MP3 Specification

Category	Description	
MP3 File Specification	Response Specification: MPEG1 AUDIO LAYER3	
Recommended Bitrate and	Response Sampling Frequency : 32, 44.1, 48 (KHz)	
Sampling Frequency	Response Bitrate: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (Kbps)	
ID3 TAG	ID3 v1.1 and ID3 v2.x TAG	
Detailed Specification	 Max Directory Layers: 15 layers Max length of folder names and file names: 255Bytes Characters supported for folder/file names: English, Arabic and numbers Max number of files recognized from one USB device: 5000 	

Video and Image Specification

Category	Description	
File Format	AVI(DivX), MPEG	
Image Format	jpg, gif, bmp, png	
Extensions	avi, divx, mpg, mpeg, mp4, wmv	
Supported Image Resolution	Max 4000x3000	
Supported Image File Size	Max 4 Mbytes	
Supported image zoom in/out	Max 300%	
Video Codec	H.263, MPEG 1/2, MPEG4-ASP, MPEG4- AVC(H.264), VC-1, AVS, VP8	
Video Resolution	1920 x 1080 (WMV 9: Max 8Mbps, 1280x720, WMV 8: 640x480)	
Audio Codec	MP3, OGG, WMA	
Subtitles	SMI	
Unsupported files	Transformed files (example: AVI files encoded with WMV video codec) Files not compatible with supported specifications Modified files (files with modified file formats) Transformed files (example: AVI files encoded with WMV video codec) Files without indexes	

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 Noentry 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.)

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.

Trouble shooting

- 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	Has the Switch for the vehicle been turned to [ACC] or [ON]?Has the SYSTEM been turned OFF?	
The screen is being displayed but sound is not working	 Has the volume been set to a low level? Has the volume been muted?	
When the power is turned on, the corners of the screen are dark	 The display appearing somewhat dark after prolonged periods of use is normal with LCD panels. It is not a malfunction. If the screen is very dark, contact your nearest dealer for assistance. 	
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	Within modes that play files by reading external sources, such as USB, iPod, or Bluetooth® streaming mode, most recently played mode screen prior to turning off power may not properly load. • If the corresponding device is not connected, the mode operated prior to the most recent mode will operate.	

Trouble shooting

Problem	Possible Cause	Countermeasure
The power does not	The fuse is disconnected.	Replace with a suitable fuse.If the fuse is disconnected again, please contact your point of purchase or service center.
turn on.	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, and contrast levels are not set properly.	Properly adjust the brightness, and contrast levels through Display Setup.
	The volume level is set to the lowest level.	Adjust the volume level.
Sound does not work.	The connection is not proper.	Check to see that the device has been properly connected.
T	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.

Trouble shooting

Problem	Possible Cause	Countermeasure
The sound or image	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.
quality is low.	Image colour/tone quality is low.	The device will return to normal once vibrations stop.
	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.
The USB does not work	A USB extension cable is being used.	Directly connect the USB memory with the multimedia terminal on the vehicle.
THE OSB GOES HOT WORK	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.
	There are no titles which can be played.	Use iTunes to download and save MP3 files into the iPod.
The iPod is not recognised even though it has been connected	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.

Limited Warranty

LIMITED WARRANTY ORIGINAL NAVIGATION HEAD UNIT

Product:

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") from the original date of the registration of the motor vehicle ("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.

Period Warranty	Mileage Warranty	
3years	60,000 Km	
*Whichever Occurs earlier.		

^{*}The term of the warranty shall commence from the date of delivery of the new vehicle to the first purchaser.

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 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.

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/60,000 km 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.

Limited Warranty

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.

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
 - (I) any fraud on the part of its employees and/or agents; or
 - (I) 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.

<FCC 15C Statement>

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

This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.