Car Navigation System

OWNER'S MANUAL

AVANTE

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.

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.



iPod®

iPod® is a registered trademark of Apple Inc.

Bluetooth®

The Bluetooth Wireless Technology word mark and logos are registered trademarks owned by Bluetooth Wireless Technology SIG, Inc.

DOLBY

Manufactured under license from Dolby Laboratories "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Cortex

Cortex is the name of the ARM Processor Architecture used in the AV System.

Windows Embedded Compact 7

Windows Embedded Compact 7 is an operating system used in the AV System.

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Precautions for safety

Safety notes



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO OUALIFIED 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 any-time



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:

- Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.
- Do not disassemble, assemble, or modify the navigation system. Such acts could result in accidents, fire, or electric shock.
- Using phone features while driving may distract drivers from paying attention to traffic conditions and result in traffic accidents.
- Use phone features only after the vehicle has been parked.
- Heed caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire, or product malfunction.
- Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction. Continued use in such conditions could lead to accidents (fires, electric shock) or product malfunctions.

- Do not touch the antenna during thunder or lightening as such acts may lead to lightning induced electric shock.
- Do not stop or park in parking-restricted areas to operate the product. Such acts could lead to traffic accidents
- The video screen will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen
- Some Non-video features may also not operate when the vehicle is in motion. These features will operate only when the vehicle has been parked.

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 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.

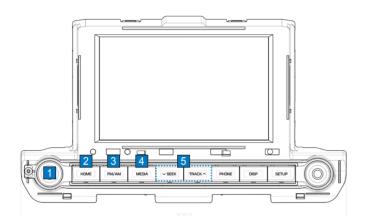
Key Product Features

Key Product Features

Button	Description		
Display	Wide TFT-LCD Display Provides high quality video through a Wide TFT-LCD Display using an LED Back Light		
Radio	Digital Tuner Feature Digital Tuner using PPL method that supports memory of 20 broadcast stations for each AM and FM modes. Radio broadcast station name Displays broadcast station names for key locations.		
Multimedia Player	Support for various Media Formats Support for various media formats, including Radio, MP3, USB, iPod, AUX and Bluetooth® Audio Streaming modes		
	Bluetooth® Wireless Technology Convenient use of Bluetooth® Handsfree by using buttons within the steering wheel remote controller		
	Digital Screen Control Features Easy control of features through touch screen options		
Miscellaneous	Steering Wheel Remote Controller Control over audio features, voice recognition and Bluetooth® through the steering wheel remote controller for maximum convenience		
	Car Link Screen mirroring program using Wi-Fi connection between AVN system and Android phone. The smart phone screen can be displayed in AVN system and controlled from AVN system screen. For details, visit the Car Link website (http://www.car-link.co.kr/motrex).		

Component Names and Functions

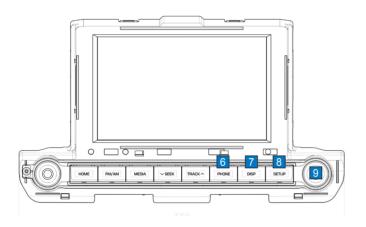
Head Unit



Button	Description
1 POWER/ VOL Knob	 Power on When power is off, press to turn power on Power off When power is on, press and hold to turn power off Audio off When power is on, press to turn Audio off Turn left/right to control volume
2 HOME	Press to move to the home menu screen.
3 FM/AM	Operates FM/AM mode
4 MEDIA	 Operates available media (USB, iPod, Bluetooth Audio) If the media is not connected, corresponding modes will be disabled
5 V SEEK TRACK A	When the SEEK, TRACK keys are pressed shortly In FM/AM mode, searches broadcast frequencies In Media modes, changes the track, file or chapter When the SEEK, TRACK keys are pressed and held FM/AM mode: automatically searches broadcast frequencies and channels. Once released, searches and begins playing the next broadcast frequency Media mode: rewinds or fast forwards the track or file (except Bluetooth Audio)

Component Names and Functions

Head Unit



Name	Description
6 PHONE	Takes user to phone screen
7 DISP	Turns off the screen
8 SETUP	Displays the Setup mode
9 TUNE/ ENTER	FM/AM mode : changes the frequency Media mode : changes the track, file or title (except AUX)
10 Reset	Resets the system

Component Names and Functions

Steering Wheel



Button	Description
1 + VOL -	Controls the volume
2 ^	When keys are pressed shortly. FM/AM mode: plays previous/next preset channel if it is saved. Media mode: changes the track, file or chapter When keys are pressed and held. In FM/AM mode: changes frequencies while pressed. Upon release, scans and receives the next frequency Media mode: rewinds or fast forwards the track or file

Button	Description
3	Mutes the sound
4 Ø	 Operates FM ► AM ► Available Media (USB Music/USB Video/iPod/Bluetooth Audio/AUX) If the media is not connected, corresponding modes will be disabled. Press and hold the key to turn the Audio system on/off When power is off, press the key to turn power back on
5	When pressed shortly When pressed in the phone screen, displays the last call When pressed in the dial screen, makes a call When pressed in the incoming call screen, answers the call When pressed during single call, switches call back to mobile phone (Private). When pressed during 3way call, swap call When pressed twice, redials the last call When pressed and held When pressed during a Bluetooth® Handsfree call, switches call back to mobile phone (Private) When pressed while calling on the mobile phone, switches call back to Bluetooth® Handsfree (Operates only when Bluetooth® Handsfree is connected) When pressed, redials the last call
6	 When pressed during a call, ends the phone call When pressed in the incoming call screen, rejects the call

Using the System for the First Time

Turning the System On/Off

Turning the System ON

Press the engine start button. If the brakes are not pressed, then the ACC and system will turn on. If the brakes are pressed, then the IGN and system will turn on and the ignition will start. In both instances, the following safety warning will be displayed.





Pressing the PWR key on the head unit will display the safety warning page.

Press the Agree button to display the most recent mode.

Turning the System Off

Press the engine start button again or press and hold the power key on the head unit to turn the system off.

NOTE

 If the system is turned off while the Handsfree is being used, then the call will automatically switch back to the mobile phone.

AV ON/OFF

Press the PWR key on the head unit when the AV is on. Press the PWR key or press the menu key to turn on AV.

While AV is turned off, the SEEK TRACK A key and the TUNE / ENTER knob will be disabled.

Resetting the System

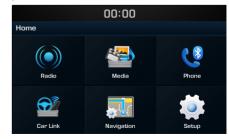
This feature is used to reset the system in the occurrence of an unforeseen error or problem.



Press and hold the RESET key for about 1 second. (The use of a clip or pin is recommended when resetting the system.)

Home Screen

Press the HOME key ▶ Press the menu icon you want to use.



FM/AM

Basic Screen





Button	Description
1 Mode tab	Press the tab to change between FM and AM mode
2 Preset button	Displays the Preset List
3 LIST button	Displays automatically updated lists
4 MENU button	Displays List, Preset, Scan, Preset scan and Sound settings menus
5 Back button	Moves to the previous screen
6 Frequency	Displays the current frequency
7 Preset No.	Displays the current preset number
8 Seek down	Single tap: seek down Long tap: fast seek down
9 Tune down	Single tap: tune down Long tap: tune down until the button is released and plays the current frequency
10 Tune up	Single tap: tune up Long tap: tune up until the button is released and plays the current frequency
11 Seek up	Single tap: seek up Long tap: fast seek up
12 Frequency bar	Use the tap to move to the desired frequency
13 List	Displays automatically updated lists
14 Preset	Displays saved presets for user selection
15 Scan	Plays frequencies with superior reception for 3 seconds each
16 Preset Scan	Plays frequencies saved to presets for 3 seconds and moves to the next saved frequency
17 Sound settings	Sets sound related settings

FM/AM

Listening to FM/AM radio

Press the FM/AM key to change the mode in order of FM ► AM ► FM.

Or Press the HOME key ► Press the Radio button ► Press FM or AM tab.



Auto tuning

Press the SEEK TRACK A key or press the SHEW SHEW automatically search for frequencies.

Manual tuning

Turn the TUNE / ENTER knob or press the substantial button to manually select the frequency.

The stations move up and down step by step.

Press or drag the frequency bar to search for frequencies that you want.

Selecting Presets

Press the MENU button ▶ Press the Preset button. From the presets, select the frequency you want to listen to.



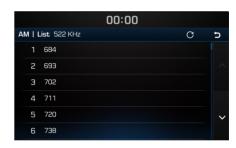
Selecting Lists

Press the MENU button ▶ Press the List button.

From the lists, select the frequency you want to listen to.

FM lists are automatically updated.

AM lists are manually updated by pressing ().



FM/AM

Saving Radio Frequency

Saving Manually

After selecting frequency ▶ Press the □ button ▶ Press the + Add to Preset .



Using Preset Menu

Press and hold the preset list you want to edit.



Button	Description
1 Tune	listens to frequency selected
2 Save	overwrites frequency listening to currently
3 Delete	deletes frequency

Press the □ button ➤ Press the MENU button ➤ Press the Doloto all to delete entire presets.



Scan

Scanning Radio Frequency

Press the MENU button ▶ Press the Scan .



Starting from the current frequency, frequencies with superior reception are scanned for 3 seconds and the previous frequency is restored.

Scanning Preset frequency

Press the MENU button ▶ Press the Preset Scan .

Plays frequencies saved to presets for 3 seconds and moves to the next saved frequency

NOTE

 When the scan is operating, pressing the controller will stop the function and return to the stopped station.

Sound settings

Press the MENU button ▶ Press the Sound settings .

For details, refer to the "Sound" on the page 38.

USB

About USB

Connect the USB device after turning on the engine. The USB device may become damaged if it is already connected when the ignition is turned on.

- 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 recognized when connected as an external device.
- When connecting an external USB device, the device may not properly recognize the USB is 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.
- Insert USB device after starting the car. If the car is started while USB device is inserted, it may damage USB device.
- The amount of time required to recognize 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 recognize 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 programs 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 rec ognized 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 CoverType 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 recognized.

USB Music

Playing USB Music

Once a USB is connected, USB Music mode will operate automatically.

Press the HOME key ▶ Press the Media button ▶ Press the USB Music button ▶ Press the Play button to play USB music.





NOTE

• If the USB is not connected, or there is no media file in USB then the USB media button will be disabled.

Searching USB Music Files

While playing ▶ Press the ▼ SEEK TRACK ^ key or the ≪ >>1 button to play the previous/next file.

- While the SEEK TRACK A key or the SHOPE button is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the USB Music will begin playing at normal speed.

NOTE

 Press the TUNE / ENTER knob allows you to select the previous/next file. This key will not rewind or fast-forward the file.

Repeat

Press the $\mathcal C$ button.

Each time the button is pressed, the option is changed from Repeat Folder(\bigcirc) \triangleright Repeat One(\bigcirc) \triangleright Off(Repeat All(\bigcirc)).

Shuffle

Press the 💸 button.

Each time the button is pressed, the option is changed from Shuffle All(\nearrow) \triangleright Shuffle Folder (\nearrow) \triangleright Off(\nearrow).

Scan All

Press the MENU button ▶ Press the Options
▶ Press the Scan All to scan files within the USB in random order.

Scan Folder

Press the MENU button ▶ Press the Options ▶
Press the Scan Folder to search files within the current folder

USB Music

Album Cover view

Press the button ▶ Press the button to search desired album.



List

Press the MENU button ▶ Press the List button to display USB Music list screen.



It is possible to search by Folder, Song, Album and Artist

Sound settings

Press the MENU button ▶ Press the Options
▶ Press the Sound settings .

For details, refer to the "Sound" on the page 38.

USB Video

Playing USB Video

Once a USB is connected, USB Video mode will operate automatically.

Press the HOME key ▶ Press the Media button ▶ Press the USB Video button ▶ Press the Play button to play USB Video.





NOTE

• If the USB is not connected, or there is no media file in USB then the USB media button will be disabled.

Searching USB Video Files

- Pressing and holding the SEEK TRACK ^
 key or
 >>1 button will rewind or fast forward the current file.
- While the SEEK TRACK A key or K

 >>I button is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the USB Video will begin playing at normal speed.

NOTE

 Press the TUNE / ENTER knob allows you to select the previous/next file. This key will not rewind or fastforward the file.

Repeat

Press the ${\mathcal C}$ button.

Each time the button is pressed, the option is changed from Repeat Folder(\bigcirc) \triangleright Repeat One(\bigcirc) \triangleright Off(Repeat All(\bigcirc).

Shuffle

Press the 🔀 button.

Each time the button is pressed, the option is changed from Shuffle All($\stackrel{\checkmark}{\times}$) $\stackrel{\triangleright}{\triangleright}$ Shuffle Folder ($\stackrel{\checkmark}{\times}$) $\stackrel{\triangleright}{\triangleright}$ Off($\stackrel{\checkmark}{\times}$).

USB Video

List

Press the MENU button ▶ Press the List button to display USB Video list screen.



It is possible to search by Folder and Videos.

Caption

Press the MENU button ▶ Press the Caption button to display caption on USB Video screen.



Display settings

Press the MENU button

Press the Display settings



Press the Reset button to initialize the settings.

Press the button to set "Brightness" and "Dimming mode".

For details, refer to the "Display" on the page 39.

Sound settings

Press the MENU button

Press the Sound settings

For details, refer to the "Sound" on the page 38.

NOTE

USB Video is not available while driving.
(Because of traffic regulations, videos is only available when your vehicle is parked.)



USB Photo

Viewing USB Photo

Press the HOME key ▶ Press the Media button ▶ Press the USB Photo button ▶ Press the desired photo in List screen.





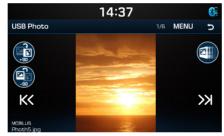
NOTE

• If the USB is not connected, or there is no media file in USB then the USB media button will be disabled.

Switching to menu screen or full screen

Press the photo to view with full screen.

Press the photo once more to return to the menu screen.





NOTE

- In full screen, images can be zoomed in/out by up to 300%.
- Press to move to the List screen.

Searching USB Image Files

Press to view the list of USB photos.

Rotating / Slide show

Press the buttons to rotate image.

Press the button to view slide show.



NOTE

Press to move to the previous screen.

USB Photo

Using the Menu Buttons

Press the MENU button to set Slide show, Slide time and Display settings menus.



Slideshow interval

Press the MENU button

▶ Press the Slide time button.



Slide show intervals can be set at 5 sec 10 sec , 20 sec , or 30 sec intervals.

NOTE

 Slideshow is not available while driving. (Because of traffic regulations, image is only available when your vehicle is parked.)



Display settings

Press the MENU button

Press the Display settings button.

For details, refer to the "Display" on the page 39.

iPod Music

About 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 synchronization to iTunes. Unauthorized 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.

iPod Music

Playing iPod Music

Once a iPod is connected, iPod Music mode will operate automatically.





- Press the button to play files saved within the iPod device.
- Press the button to pause the file.

NOTE

 If the iPod is not connected, or there is no media file in iPod then the iPod Music button will be disabled.

Searching iPod Music Files

You can play the previous or next file. For details, refer to the page 17.

Using the Menu Buttons

Press the MENU button to set List and options menus.



For details, refer to the "List" on the page 18.

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.





Sound settings



For details, refer to the "Sound" on the page 38.

AUX

Playing an AUX source

If an external device connector is connected with the AUX terminal, then AUX mode will automatically operate.

Press the HOME key ▶ Press the Media button ▶ Press the AUX button to play auxiliary device while a different source is playing.





NOTE

- · Video can be played with video connectors.
- Video is not available while driving. (Because of traffic regulations, Aux Video is only available when your vehicle is parked.)



Using the Menu Buttons

Press the MENU button to set Sound or Display.





For details, refer to the "Sound" on the page 38 and "Display" on the page 39.

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 Bluetooth Connection on page 29.
- 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.

Playing Bluetooth audio





- Press the button to play files saved within the Bluetooth phone.
- Press the **II** button to pause the file.

Searching Bluetooth audio Files

You can play the previous or next file. For details, refer to the page 17.

NOTE

- The title/artist info may not be supported in some mobile phones. When it is not supported, only the symbol will be displayed.
- The play/pause feature may operate differently depending on the mobile phone.

Using the Menu Buttons

Press the MENU button to set Sound settings menus.



For details, refer to the "Sound" on the page 38.