



DIGITAL NAVIGATION SYSTEM

OWNER'S MANUAL



KIA MOTORS
The Power to Surprise™



KIA MOTORS

Read the following safety cautions for your safety.

Please read the following safety matters for your safety. This User's Manual describes circumstances that may inflict injury onto drivers and others with the following notations (Warning, Caution, Information, Notice).

Before using the product, read the contents of this user's manual carefully and use this product safely.

※ The design and specification of this product may change without prior notification for product improvement.

Notations used within this User's Manual

Safety Warnings

Failure to observe the safety instructions within this category could result in serious injury or death.

Safety Cautions

Failure to observe the safety instructions within this category could result in accident related injuries or damage to the vehicle.

CAUTION

- Information on matters that could potentially lead to injury or vehicle damage/malfunction
 - Information that could lead to higher user safety
-

Information

- Information and tips that provides additional user convenience in using the product
-

NOTICE

- Information on specific features that facilitate proper product use and functional understanding
 - Information on terminology used within this manual
-

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CAUTIONS upon Using SD Cards

Ejecting and Inserting SD Cards

- Ejecting and inserting SD cards while the Navigation system is operating may result in SD Card or System errors. To eject or insert the SD card, first turn off the Navigation system and the vehicle ignition.
- Eject/insert SD cards only to update the navigation system with a new version.
 - ※ When an SD Card with the new version is inserted, then system update will occur automatically

Usage of SD Cards

- The SD Card is formatted to include only MAP and new system update files.
- The SD Card cannot be used to save and play Music.
- Do not add, delete, or format files within the SD Card.

iPod®

iPod® is a registered trademark of Apple Inc.

***Bluetooth®* Wireless Technology**

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A *Bluetooth®* Wireless Technology enabled cell phone is required to use *Bluetooth®* Wireless Technology. *Bluetooth®* Wireless Technology phone compatibility can be checked by visiting www.hyundaiusa.com and under the SERVICE & PARTS–BLUETOOTH COMPATIBILITY menu.

- Areas that can be checked –9 areas, such as Pairing, Connection, Handsfree Calling, Streaming, etc.

HD Radio™ Technology

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1 Basic

- Warnings and Cautions
- Key Product Features
- Component Names and Functions
- Starting the System for the First Time

CAR AVN SYSTEM

Warnings and Cautions

Safety Warnings

- ❑ Even when receiving route guidance from the Navigation system, please abide by actual traffic and road regulations. Following only the Navigation route guidance may lead to violations of actual traffic and road regulations and lead to traffic accidents.
- ❑ Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.
- ❑ Do not operate the Navigation system while driving, such as entering POIs or conducting route searches. Such acts could lead to accidents, fire, or electric shock. Park the vehicle before operating the device.
- ❑ Do not disassemble, assemble, or modify the Navigation system. Such acts could result in accidents, fire, or electric shock.
- ❑ 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.
- ❑ For most Audio and multimedia modes, the display will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen. (The screen will operate when the parking brake is set to ON for manual transmission vehicles and when set to P or Parking Brake On state for auto transmission vehicles.)

Safety Cautions

Pay attention to traffic conditions while driving.

- ❑ In some instances, the navigation may provide guidance through restricted areas.
- ❑ Operating the device while driving could lead to accidents due to a lack of attention to external surroundings. First park the vehicle before operating the device. In addition, the touch screen may not work for some functions when the vehicle is in motion. The touch screen feature will be supported once the vehicle has stopped.
- ❑ Adjust the volume to levels that allow the driver to hear sounds from outside of the vehicle. Driving in a state where external sounds cannot be heard may lead to accidents.
- ❑ Pay attention to the volume setting when turning the device on. A sudden output of extreme volume upon turning the device on could lead to hearing impairment. (Adjust the volume to a suitable levels before turning off the device.)
- ❑ If you want to change the position of device installation, please inquire with your place of purchase or service maintenance center.
- ❑ Technical expertise is required to install or disassemble the device.
- ❑ Turn on the car ignition before using this device. Do not operate the Navigation system for long periods of time with the ignition turned off as such operations may lead to battery discharge.
- ❑ Upon using the Navigation system for more than 10 minutes with the car engine turned off, the following warning will be displayed. After 10 minutes, the warning will be displayed for 5 seconds every 1 minute.
- ❑ Do not subject the device to severe shock or impact. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch screen.
- ❑ When cleaning the device, make sure to turn off the device and use a dry and smooth cloth.
- ❑ Never use tough materials, chemical cloths, or solvents(alcohol, benzene, thinners, etc.) as such materials may damage the device panel or cause color/quality deterioration.
- ❑ When experiencing product malfunctions, inquire with your place of purchase or service maintenance center.

Key Product Features

This device is an Audio Navigation system equipped with a multifunctional disc player that supports Radio (FM1, FM2, AM), HD Radio technology, Audio CD, MP3, USB, iPod, and Audio, Aux, and My Music features. The WIDE VGA LCD provides a high quality resolution while the powerful and rich sound system adds to the driving enjoyment.

Display	Wide TFT-LCD Display <ul style="list-style-type: none">• Provides high quality sound and video through a Wide TFT-LCD Display using an LED Back Light• Touch screen for maximum user convenience
Radio	Digital Tuner Feature <ul style="list-style-type: none">• Digital Tuner using PPL method that supports memory of 6 broadcast stations for each AM, FM1, and FM2 modes Integrated Antenna (RADIO+NAVI) <ul style="list-style-type: none">• Outstanding reception via integrated antenna with high sensitivity Radio broadcast station name <ul style="list-style-type: none">• Displays broadcast station names for key locations HD Radio/Satellite Radio feature <ul style="list-style-type: none">• Supports HD Radio reception and Satellite Radio (XM)
Multimedia Player	Support for various Media Formats <ul style="list-style-type: none">• Support for various media formats, including Radio, audio MP3 CD, USB, iPod and AUX• Supports USB, iPod, and Bluetooth® Audio Streaming modes My Music <ul style="list-style-type: none">• Supports copying of music stored within USB or iPod devices into My Music (internal memory) mode USB Image <ul style="list-style-type: none">• Copy to view and save images saved in USB devices

Navigation	<p>Voice Guidance</p> <ul style="list-style-type: none"> • Voice route guidance to safely and conveniently reach set destinations • Various map scales that enables drivers to accurately view map and surrounding areas <p>Automatic Correction for Current Location</p> <ul style="list-style-type: none"> • Automatically corrects current position using map matching and GPS information
Blue Link®	<p>Sync with Blue Link® Center</p> <ul style="list-style-type: none"> • Synchronization with the Blue Link® Center to provide various types of information <p>Vehicle Diagnostics/Maintenance</p> <ul style="list-style-type: none"> • Supports Vehicle Theft Protection, Parts Diagnostics and Recall Information <p>Eco Driving and Fuel Economy Management</p> <ul style="list-style-type: none"> • Supports Economic driving practices by providing driver/community fuel economy information and Eco Rewards
Miscellaneous	<p>Bluetooth® Wireless Technology</p> <ul style="list-style-type: none"> • Convenient use of Bluetooth® Handsfree by using buttons within the steering wheel remote controller <p>Digital Screen Control Features</p> <ul style="list-style-type: none"> • Easy control of features through touch screen options <p>Steering Wheel Remote Controller</p> <ul style="list-style-type: none"> • Control over audio features, voice recognition and Bluetooth® through the steering wheel remote controller for maximum convenience

Component Names and Functions

Head Unit



Name	Description
1 PHONE	Takes user to home phone screen
2 SEEK TRACK	<p>When key is pressed shortly. (under 0.8 seconds)</p> <ul style="list-style-type: none"> In FM/AM mode, plays previous/next frequency In XM mode, plays the previous/next channel In CD/MP3/USB/iPod/My Music modes, changes the track, file or chapter <p>When key is pressed and held. (over 0.8 seconds)</p> <ul style="list-style-type: none"> In FM/AM mode, continuously changes the frequency until the key is released and plays the current frequency In XM mode, continuously changes the channel until the key is released and plays the current channel In CD/MP3/USB/iPod/My Music modes, rewinds or fast-forwards the track or file
3 FM/AM	<ul style="list-style-type: none"> Converts to FM/AM mode Each time the key is pressed, the mode is changed in order of FM1 → FM2 → AM → FM1

4 INFO	<p>Displays the Info mode screen</p> <ul style="list-style-type: none"> Displays CD, MP3, USB, iPod, AUX, Bluetooth® Audio Streaming, My Music modes If the media is not connected or a disc is not inserted, corresponding modes will be disabled
5 MEDIA	
6 SAT	<p>Converts to XM mode</p> <ul style="list-style-type: none"> Each time the key is pressed, the mode is changed in order of XM1 → XM2 → XM3 → XM1



Name	Description
7 ● PWR key ● VOL Knob	<ul style="list-style-type: none"> • When power is off, press to turn power on • When power is on, press and hold (over 0.8 seconds) to turn power off • When power is on, press shortly (under 0.8 seconds) to turn Audio off • Turn left/right to control volume
8 ROUTE	Displays Route menu screen
9 SETUP	Displays the Setup mode
10 MAP VOICE	Displays the map for the current position
11 TUNE	<ul style="list-style-type: none"> • In FM/AM mode, changes the frequency • In XM mode, changes the channel • In CD, MP3, USB, iPod, My Music modes, changes the track, file or chapter

12 DEST	Displays the Destination setup menu
13	Press to insert or eject disc
14 DISP	Converts to DISP mode
15 RESET	Resets and restarts the system
16	SD Card insert slot




Component Names and Functions

Steering Wheel Remote Controller



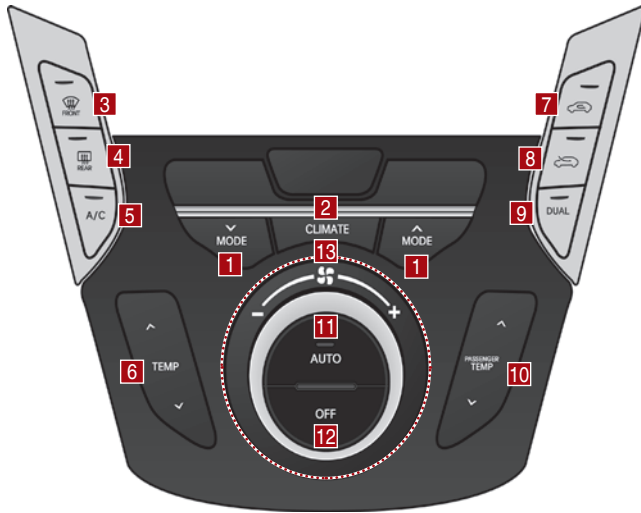
Name	Description
1 VOL+ VOL-	Controls the volume
2 MUTE	Mutes the sound
3 ^ v	When keys are pressed shortly. (under 0.8 seconds) <ul style="list-style-type: none">• In FM/AM mode, searches broadcast frequencies saved to Presets• In XM modes, searches broadcast channels saved to Presets• In CD/MP/USB/iPod/My Music modes, changes the track, file or chapter When keys are pressed and held. (over 0.8 seconds) <ul style="list-style-type: none">• In FM/AM mode, automatically searches broadcast frequencies and channels• In XM modes, automatically searches broadcast channels• In CD/MP3/USB/iPod/My Music modes, rewinds or fast forwards the track or file
4 MODE	<ul style="list-style-type: none">• Each time this key is pressed, the mode is changed in order of FM1 → FM2 → AM → XM1 → XM2 → XM3 → USB or iPod → AUX → Bluetooth® Audio → My Music• If the media is not connected or a disc is not inserted, corresponding modes will be disabled• Press and hold the key (over 0.8 seconds) to turn the Audio system on/off• When power is off, press the key to turn power back on








Name	Description
5 	<p>When pressed shortly. (under 0.8 seconds)</p> <ul style="list-style-type: none"> Activates voice recognition <p>When pressed and held. (over 0.8 seconds)</p> <ul style="list-style-type: none"> Ends voice recognition
6 	<p>When pressed shortly. (under 1.2 seconds)</p> <ul style="list-style-type: none"> When pressed in the phone screen, displays call history screen When pressed in the dial screen, makes a call When pressed in the incoming call screen, answers the call When pressed during call waiting, switches to waiting call (Call Waiting) <p>When pressed and held. (over 1.2 seconds)</p> <ul style="list-style-type: none"> When pressed in the Bluetooth® Handsfree wait mode, redials the last call 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)
7 	<p>When pressed during a call, ends the phone call</p> <p>When pressed in the incoming call screen, rejects the call</p>

Component Names and Functions

Climate System



Name	Description
1 MODE	Sets the fan direction
2 CLIMATE	Displays the climate info screen
3 	Removes humidity and frost by blowing fan towards the front window
4 	The side mirror and rear window defroster is turned on/off
5 A/C	Turns the air conditioner on/off
6 TEMP	Controls the driver-side temperature
7 	Switches the air intake mode to recirculation
8 	Switches the air intake mode to outside air
9 DUAL	Turns DUAL mode on/off Upon turning on DUAL, the driver-side and passenger-side temperature can be operated independently
10 Passenger Temp	Controls the passenger-side temperature
11 AUTO	Operates auto temperature mode to maintain cabin temperature at suitable levels relative to outside temperature
12 OFF	Turns the climate system off
13 	Sets the fan level

Room Mirror



Name	Description
1 Blue Link® Center	Connects to the Blue Link® Center to speak with consultants When pressed again during call, ends call
2 Blue Link® for POI	After connecting to the Blue Link® Center, used to request POI information through voice recognition When pressed again during call, ends call
3 Blue Link® for SOS	<ul style="list-style-type: none">• When an unforeseen emergency occurs, used to make call and request Blue Link® SOS service• When pressed again during call, ends call


Starting the System for the First Time


Turning the System On/Off

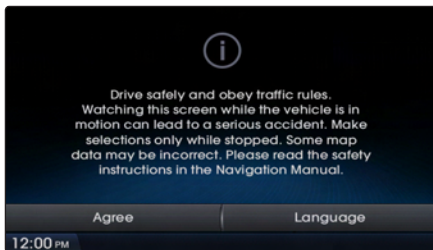
Turning the System On


If the engine start button is pressed without pressing the brakes, then the ACC and system will turn on.

Once the system is turned on, the booting process will start and the safety warning page is displayed.

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

Press the  button to display the most recent mode.



To change the system language between Korean, English, Français, and Español press the  button.


Information

- No operations are supported while the system is booting. Some time may be required until all features are ready for use.

CAUTION

- The safety warning page is displayed every time the ignition is turned on. The displayed warnings are related to safety, please closely read and comply with the safety warnings.

Turning the System Off

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

Information

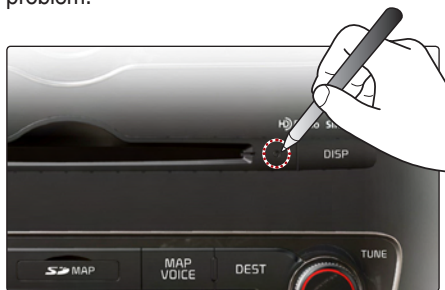
- If the system is turned off while the Handsfree is being used, then the call will automatically switch back to the mobile phone.
- ADM (Accessory Delay Mode) refers to a state in which the navigation system will remain turned on for continued use up to a certain amount of time even if the vehicle ignition is set to ACC OFF state.
- The navigation system will automatically turn off if more than 3 minutes has passed in ACC OFF state or the driver-side door is opened.
- While ADM is operating, it is possible to manually turn off the system power.

⚠ CAUTION

- Pay attention to the volume setting when turning the device on. Adjust the volume to a suitable levels before turning off the device.

Resetting the System

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



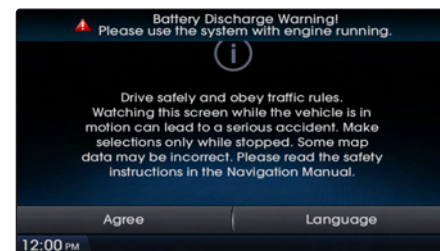
Press and hold the RESET key. (about 1 second)
(The use of a clip or pin is recommended when resetting the system.)

NOTICE

- Upon resetting the system, saved data and settings information (radio frequencies, volume and display settings) will be restored back to the default factory state. Such are not indications of malfunctions.

Battery Warning Message

Use the system only when the engine is running. If the system is turned on with the engine off, then the following warning will be displayed.



This message will automatically disappear once the engine is turned on.

⚠ CAUTION

- Using the system for prolonged periods of time without the engine running may result in battery discharge.

MEMO

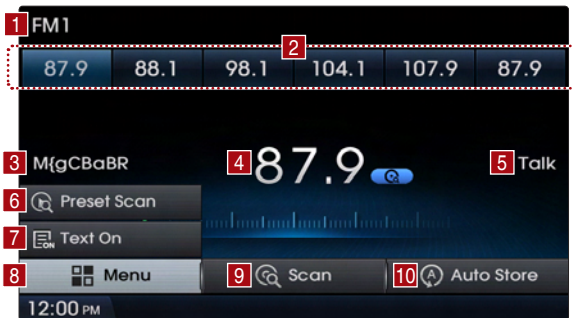
2 Audio

- FM/AM Mode
- HD Radio Mode
- XM Mode
- About DISC
- CD Mode
- MP3 CD Mode
- USB Mode
- iPod Mode
- AUX Mode
- Bluetooth® Audio Mode
- My Music Mode

CAR AVN SYSTEM

FM/AM Mode

Basic Mode Screen (HD Radio reception OFF)



Name	Description
1 Mode Display	Displays currently operating mode
2 Preset	Shows saved presets for user selection
3 Broadcast Station Name	Displays the current broadcast station name
4 Frequency	Displays the current frequency
5 Genre Display	Displays the current genre
6 Preset Scan	Plays preset frequencies for 5 seconds each
7 Text On (Text Off)	Turns the Radio Text information on and off
8 Menu	Displays Preset Scan and Text On (Text Off) menus
9 Scan	Plays frequencies with superior reception for 5 seconds each
10 Auto Store	Saves frequencies with superior reception to Preset buttons

Basic Mode Screen (HD Radio reception ON)



Name	Description
1 HD Radio Reception	Displays main HD Radio channels
2 Broadcast Station	Displays the current broadcast station
3 Genre	Displays the current broadcast genre
4 Broadcast Info	Displays detailed information about the current broadcast
5 Selection buttons	Used to select the previous/next HD Radio broadcast channel
6 Auto Store	Saves frequencies with superior reception to Preset buttons
7 Preset Scan	Plays preset frequencies for 5 seconds each
8 Scan	Plays frequencies with superior reception for 5 seconds each
9 Info On (Info Off)	<ul style="list-style-type: none"> When pressed, shows detailed information about the current broadcast When pressed again, detailed information is turned off
10 Tagging	<ul style="list-style-type: none"> Used to save song information for the currently playing broadcast Upon connecting an iPod, song information is transferred to the iPod and can be downloaded through iTunes

FM/AM Mode

Starting Mode

Press the **FM/AM** key to change the mode in order of FM1 → FM2 → AM.



When the power is OFF, pressing the **FM/AM** key will turn the power on and play a radio broadcast.

Using SEEK

Press the **SEEK TRACK** key to automatically search for frequencies.

- Shortly press the key (under 0.8 seconds) : Plays previous/next frequency.
- Press and hold the key (over 0.8 seconds) : Changes the frequency while pressed and receives the next frequency upon release.

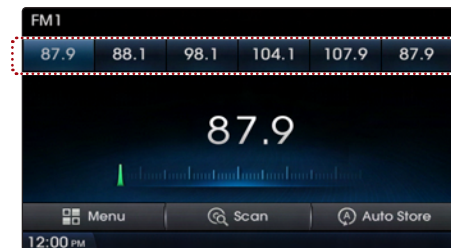
Using TUNE

Press the **TUNE** key to manually select the frequency.



- FM1/FM2 : Increases/decreases by 200kHz
- AM : Increases/decreases by 10kHz

Selecting Presets



From the 6 presets, select the frequency you want to listen to.

i Information

- You can save up to 6 preset channels each for FM1, FM2 and AM.

Saving Radio Frequency



Saving Manually

After selecting frequency ► Press and hold (over 0.8 seconds) the preset button.

A 'beep' will sound and the frequency is saved to the selected preset button.

Saving Automatically

Press the **Auto Store** to automatically save receivable frequencies to Preset buttons.

A total of 18 frequencies with six preset frequencies each for FM1/FM2/AM modes can be saved.

i Information

- While Auto Store is operating, pressing the **Auto Store** button again will cancel the function and play the previous frequency.

Scanning Radio Frequency

Press the **Scan** button to scan all radio frequencies.



Starting from the current frequency, frequencies with superior reception are scanned for 5 seconds and the previous frequency is restored.

FM/AM Mode

Using the Menu Buttons

Press the **Menu** button to use the Preset Scan menu.



Preset Scan

Press the **Menu** button ► Press **Preset Scan**.

Frequencies saved to the 6 preset buttons are each played for 5 seconds and the previous frequency is restored.

Text On/Text Off

Press the **Menu** button ► Press **Text On**.

The Text feature is turned on/off.

- If the **Text On** button is displayed (Text off state), information will not be displayed even if there is information being transmitted from the broadcast station.
- If the **Text Off** button is displayed (Text on state), then broadcast information will be displayed. Information may not be displayed if there is no information being transmitted from the broadcast station.

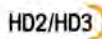
HD Radio Mode

About HD Radio™ Technology



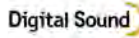
Program Service Data :

Contributes to the superior user experience of HD Radio Technology. Presents song name, artist, station IDs, HD2/HD3 Channel Guide, and other relevant data streams.



Adjacent traditional main stations are extra local FM channels.

These HD2/HD3 Channels provide new, original music as well as deep cuts into traditional genre.



Digital, CD-quality sound. HD Radio Technology enables local radio stations to broadcast a clean digital signal. AM sounds like today's FM and FM sounds like a CD.

Starting Mode

Press the **FM/AM** key to turn on Radio mode.



If an HD Radio broadcast is received, the radio mode will switch from analog broadcast to HD Radio broadcast.

i Information

- The HD Radio screen is displayed only when a HD Radio broadcast is being received.
- To ensure HD Radio stations are received, turn the feature on at **SETUP** key ▶



Operating HD Radio Mode

Selecting a Frequency



As HD Radio reception is included within Radio mode, the methods of moving between channels, saving presets, searching, or methods of searching frequencies are identical. However, while the HD Radio related icon display will become active when within regions where an HD Radio signal can be received.

HD Radio Mode

Using TUNE

Press the **▼ TUNE ▲** key to manually select the frequency.



Selecting through Preset



From the 6 presets, select the HD Radio broadcast you want to listen to.

i Information

- For HD Radio broadcast channels without sub channels, sub channels will be skipped and only main channels will be received.

Song-Tagging

The song tagging feature provides a way to capture broadcasted song information from the radio for future purchase in iTunes.

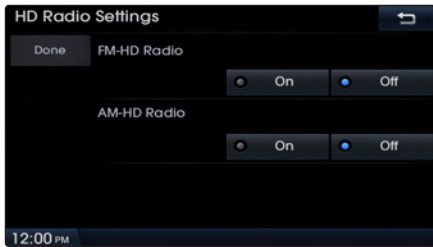
Upon connection of an Apple audio playback device, the "tagged songs" will be transferred to your iTunes account in your Tagged songs folder.

i Information

- Up to 50 songs can be saved if an iPod device is not connected.
- Song data can be transferred to an iPod only if there is available space within the device.

HD Radio Digital Broadcast On/Off

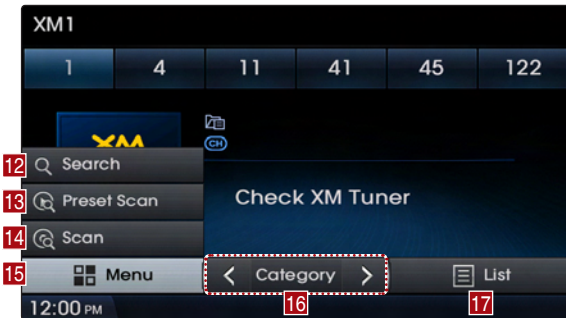
Press the **SETUP** key ▶ Press the ▶
 HD Radio ▶ Press  /  .



HD Radio Broadcasts can be turned On and Off for HD Radio FM and AM mode.

XM Mode

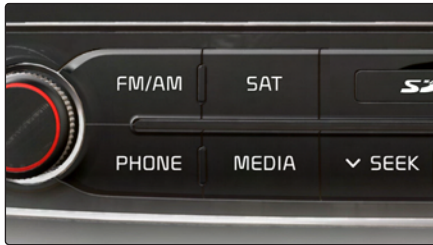
Basic Mode Screen



Name	Description
1 Mode Display	Displays currently operating mode
2 Preset	The desired frequency can be saved as a preset and selected
3 Channel Logo	Display the channel logo
4 Channel Number	Displays the current channel number
5 Category mode indicator	Displays the category mode in blue
6 Channel mode indicator	Displays the channel mode in blue
7 Setting Display	Displays the indicator if Scan/Preset Scan is operating
8 Category name	Displays the category name
9 Channel name	Displays the channel
10 Artist name	Displays the artist name
11 Title name	Displays the title name
12 Search	Used to search for channels by entering channel numbers
13 Preset Scan	Plays preset frequencies for 5 seconds each
14 Scan	Plays all receivable channels for 5 seconds each
15 Menu	Displays Search, Preset Scan and Scan menus
16 Category Selection Buttons	Used to select the previous/next channel
17 List	Displays XM Radio Categories/Channel Lists

Starting Mode

Press the **SAT** key to change the mode in order of XM1 → XM2 → XM3.



When the power is OFF, pressing the **SAT** key will turn the power on and play an XM Radio broadcast.

Using SEEK

Press the **SEEK TRACK** key on the control panel for under 0.8 seconds.

The previous or next channel will be selected.

i Information

- Within category mode, channels within the current category will be played.
- Within channel mode, all channels in all categories will be played.
- If no operation for 5 seconds during category mode, it goes back to the channel mode automatically.

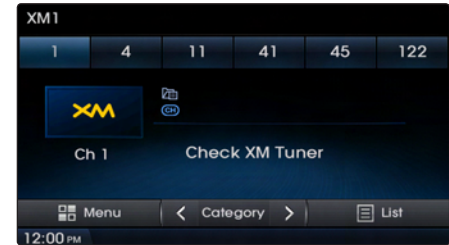
Using TUNE

Press the **TUNE** key to display the previous or next channel information.



After a brief moment, the selected channel will be displayed.

Selecting Presets

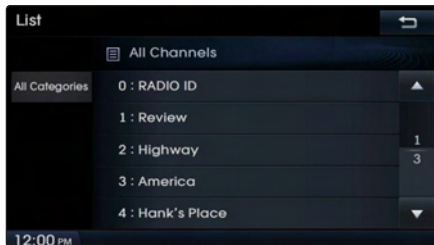
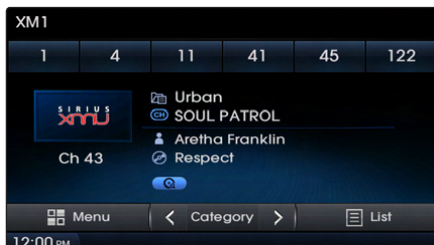


From the 6 presets, select the channel you want to listen to.

XM Mode

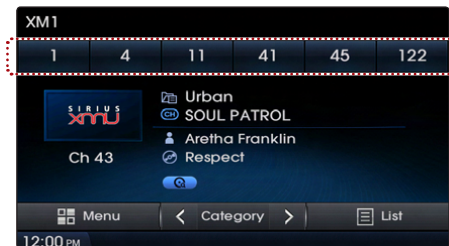
Selecting through Channel/Cat-egory List

Press the **List** button ► Select the desired category and channel.



Select the desired category and the channel. Once selected, the previous screen will be restored and the selected channel will begin playing.

Saving XM Channels



Saving Manually

After selecting channel ► Press and hold (over 0.8 seconds) the preset button.

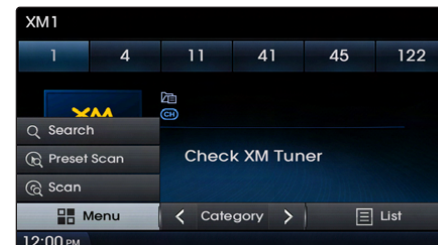
A confirmation 'beep' will be heard and the channel will be saved to the selected preset button.

i Information

- Six preset frequencies each for XM1/ XM2/XM3 modes can be stored using the above instructions.

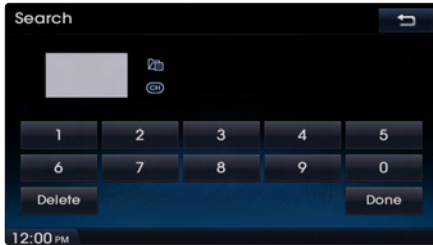
Using the Menu Buttons

Press the **Menu** button to use the Search, Preset Scan, and Scan menus.



Search

Press the **Menu** button ► Press **Search** ► Enter numbers and press **Done** .



Enter the number of the channel you want to receive.

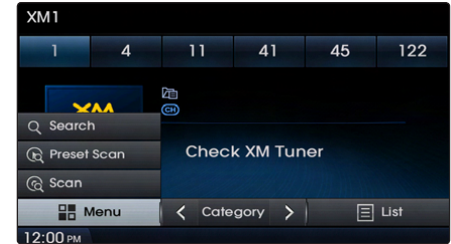
Preset Scan

Press the **Menu** button ► Press **Preset Scan** .

Channels saved to the 6 preset buttons are each played for 5 seconds and then the previous channel is restored.

Scan

Press the **Scan** button to scan all channels.



Starting from the current channel, channels with superior reception are scanned for 5 seconds and the previous channel is restored once scanning is complete.

About Disc

Precautions upon Handling Discs

- ❑ After using a disc, put the disc back in its original case to prevent disc scratches.
- ❑ Do not use abnormally shaped discs (8cm, heart-shaped, octagon-shaped) as such discs could lead to malfunctions.
- ❑ Do not clean discs with chemical solutions, such as record sprays, antistatic sprays, antistatic liquids, benzene, or thinners.
- ❑ Do not expose the disc to direct sunlight or high temperatures for prolonged periods of time. Such exposure may lead to disc deformation.
- ❑ Upon playing a disc contaminated by dirt or other substances, the sound quality may deteriorate and result in skipping sounds. Writing on either side of the disc could result in damage to disc surfaces.
- ❑ Clean fingerprints and dust off the disc surface (coated side) with a soft cloth.
- ❑ Copy-protected CDs, such as S-type CDs, may not properly operate in the device. DATA CDs cannot be played. (However, such discs may still abnormally operate.)
- ❑ Do not disassemble the device. Contact a designated service center in case of malfunction. (Complete after service assistance will not be provided if the user disassembles the device.)
- ❑ Do not use water to clean the device. Exposure to water could lead to product malfunction.
- ❑ Do not to introduce foreign substances into the disc insert/eject slot. Introducing foreign substances could damage the device interior.
- ❑ The device may fail to properly operate in extremely hot or cold temperatures. (The operating temperature range is : 14°F ~ 150°F)
- ❑ Steam can become condensed on the fiber-optic lens due to rain, wet conditions, or upon operating the heating system. In such cases, discs may not be properly recognized. Remove the disc and wait until the moisture dries.
- ❑ Skipping may occur during audio play when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle. In case of severe shock, audio may not properly play.

Supported Disc Formats

This device supports the following disc formats.

Disc Type

Disc Type	Disc Format	Device Support
CD	3inch (8cm)	X
	5inch (12cm)	○
	CD	○
	CD-R	○ (Read Only)
	CD-RW	○ (Read Only)
	Multisession-CD	○ (Read Only)
SACD	SACD	X
	(Single, SACD layer) SACD (Hybrid)	X (Only CD layer)

Disc Format

Disc Type	Disc Format	Device Support
CD	CD-DA	○
	MP3	○
	WMA	○
	MPEG4 AAC	X
	DTS-CD	○
	CD-ROM	○
	CD-G	X
	CD-EXTRA	○
	CD-TEXT	○

Disc/Content Format Compatibility

By Format according to Disc Type

Disc Type	Disc Format	Device Support
CD	LPCM	○
MP3	MPEG1, Layer3	○
	MPEG2, Layer3	○
	MPEG2.5	○
WMA	Ver9	○

Ordinary Disc Compatibility

This device has been designed/ manufactured to be compatible with software bearing the following logo marks.



Audio-CD

- CD-R/RW discs (Audio CD) created with CD recording devices or PCs may not properly operate in the device. This is a result of various causes, including disc format, recording method, and contamination to the disc or lens.

CD-R/RW Compatibility

- This device supports CD-R, CD-RW, and MP3 discs burned in Audio CD formats.
- The recording of CD-R and CD-RW discs with this device is not supported.
- CD-R/RW discs recorded as audio CDs that were not finalized are not supported by this device.

PC-created Disc Compatibility

- When burning a disc on a PC, the disc may not operate in this device depending on the software settings. In such cases, inquire with the software manufacturer.
- Additional information regarding compatibility is displayed on the CD-R/RW software disc box.
- DVD-R/W discs are not compatible with this device.

Cautions upon Writing CDs

- When a multi-session disc is being recorded, make sure to close the session before recording.
- If MP3/WMA file extensions are changed, such could result in malfunctions.
- In the case of MP3/WMA, write using only English. (Other languages are not supported)
- Unauthorized use of copy-protected music files is prohibited by law.
- Prolonged use of CD-R/CD-RW products that do not satisfy related specifications may result in product malfunction.
- When writing CDs, low-speed writing is recommended.

Compressed Audio Compatibility

- Physical formats of CD : Model 1, Model 2 XA format 1.
- This device supports audio file compressed through MPEG-1 audio stream layer 3 (MP3) using 8kbps ~ 320kbps. (CBR or VBR)
- For stable operation, the use of files in 95kbps~192kbps bit rate range and 44.1kHz SAMPLING frequency is recommended.
- This device supports WMA audio files using 20kbps ~ 320kbps. (CBR or VBR)
- Variable bit rate files may operate, but the play time information may not be properly displayed.
- This device only supports tracks with file extension of ".mp3" or ".wma".
- This device does not support multisession discs.
- This device supports only 8 layer folders.

- This device supports MP3 ID3 tag versions of Ver. 1.0, Ver. 1.1, Ver. 2.2, Ver. 2.3, Ver. 2.4. When using discs with other versions, the ID3 info will not be displayed.
- Although this device has been designated to be compatible with various bit rates, playing low bit rate MP3 tracks may result in low quality sound.

Before Playing an MP3 Disc

Supported MP3 File Specification

- Acceptable standard: MPEG1 Audio Layer 3.
- Acceptable sampling frequency : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48(KHz).
- Acceptable bit rate : 8 ~ 320 (Kbps).

Recommended Bit Rates and Frequency

- Sampling frequency : 96 ~ 192 Kbps fixed bit rate/4.1kHz.

NOTICE

- Supported ID3 tags : ID3v1.0, ID3v1.1, ID3v1.2, ID3v2.2, ID3v2.3, ID3v2.4.
 - Supported MP3 Media : CD-ROM.
 - Supported media formats : ISO9660 LEVEL1 and LEVEL2.
-

Detailed Specification

- Maximum directory layers : 8 layers.
- Maximum folder length : 64 bytes, file name length: 64 bytes.
- Supported characters for folder name/ file name: Alphanumeric characters, Korean standard character set 2350 characters, Simplified Chinese 4888 characters.
- Maximum number of folders per disc : 256 folders. (including ROOT)
- Maximum number of files per disc : 512 files.

Precautions upon Burning MP3 Files

- The use of ISO 9660 LEVEL 2 JOLIET format is recommended.
- Up to 32 characters in Korean/Chinese are supported for file names and up to 20 characters in Korean/Chinese are supported for folder names.
- The use of CDs exceeding 700MB may result in faulty disc recognition or errors upon play.

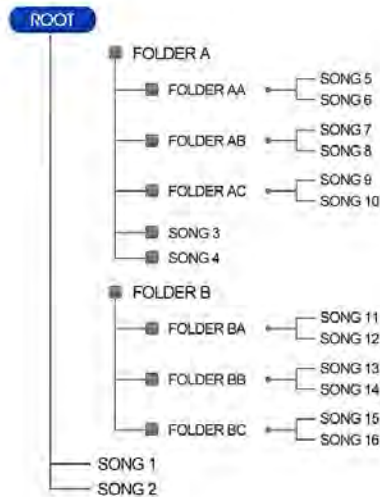
Disc

MP3 File Structure

Recognition occurs through the same folder structure used within the disc.



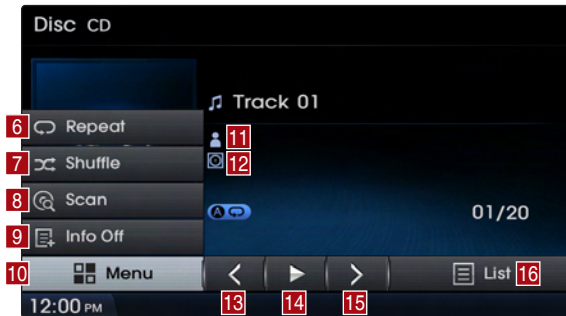
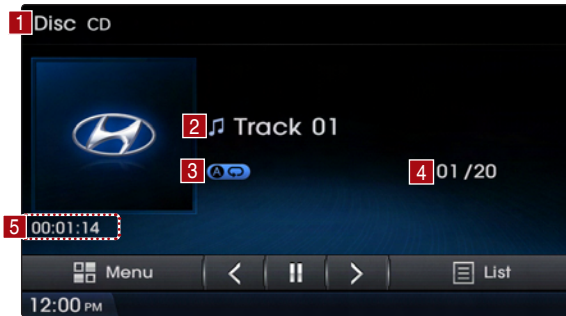
Folder structure as saved in CD-ROM



Folder structure as saved in the system

CD Mode

Basic Mode Screen

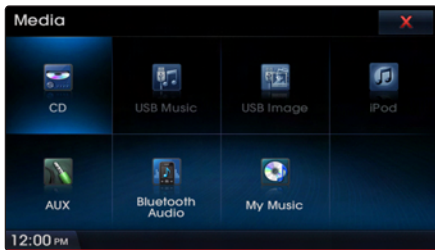


Name	description
1 Mode	Displays currently operating mode
2 Track	Track number of current song
3 Repeat/Shuffle/Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Track Index	Shows the current track/total tracks
5 Play Time	Displays the current play time
6 Repeat	Repeats the current track
7 Shuffle	Plays disc tracks in random order
8 Scan	Scans the beginning parts of disc tracks (approx. 10 seconds per track)
9 Info Off (Info On)	<ul style="list-style-type: none"> Info Off : shows only track info Info On : shows track info, artist and album info ※ Empty when there is no corresponding information
10 Menu	Displays Repeat, Shuffle, Scan, and Info On (Info Off) menus
11 Artist Info	Displays artist info for current song (Will not be displayed if the information does not exist)
12 Album Info	Displays album info for current song (Will not be displayed if the information does not exist)
13 Previous Track	<ul style="list-style-type: none"> When the play time is under 2 seconds : Moves to the previous track When the play time is over 2 seconds : Plays the current song from the beginning
14 Play/Pause	Plays/pauses the current track
15 Next Track	Moves to the next track
16 List	Moves to the track list screen

CD Mode

Starting Mode

Press the **MEDIA** key ▶ Press **CD**.



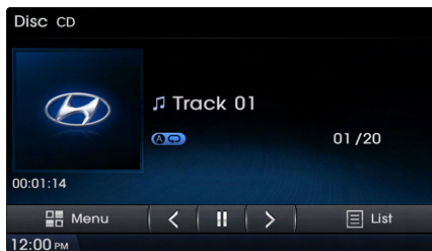
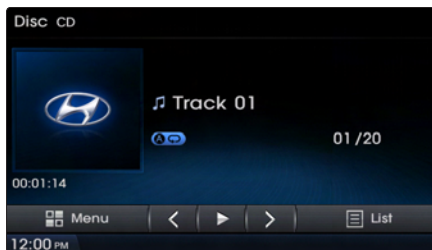
NOTICE

- Only genuine audio CDs are supported. Other discs may result in recognition failure. (e.g. copy CD-R, CDs with labels)

i Information

- CD mode will automatically start once a CD is inserted.

Playing a CD



- Press the **▶** button to play the track.
- Press the **||** button to pause the track.

Fast-forwarding or Rewinding CD Tracks

While playing ▶ Press and hold the **SEEK TRACK** key. (over 0.8 seconds)



This will rewind or fast-forward the track. While the **SEEK TRACK** key is being pressed, the track will rewind or fast-forward at 20x speed. Once released, the track will begin playing at normal speed.