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U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER

NOTE : This equipment has been tested and founded to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular Installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for assistance.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

IC Warning

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

1 Basic

- Warnings and Cautions
- Key Product Features
- Component Names and Functions

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 AVN 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 AV 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.

Driving while distracted can result in a loss of vehicle control, that may lead to an accident, severe personal injury, and death. The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any handheld devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vehicle or which are not permissible by law should never be used during operation of the vehicle.

Part 1. Basic

Warnings and Cautions

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 Audio Video Navigation system for long periods of time with the ignition turned off as such operations may lead to battery discharge.

Upon using the Audio Video 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.

Part 1. Basic

Key Product Features

This device is an Audio Video Navigation system equipped with a multifunctional disc player that supports Radio (FM1, FM2, AM), Audio CD, MP3, DVD, USB, iPod, and Audio/Video AUX features. The WIDE VGA LCD provides a high quality resolution to both driver and passengers while the powerful and rich sound system adds to driving enjoyment.

Display	Wide TFT-LCD Display • Provides high quality video and music through a Wide TFT-LCD Display using an LED Back Light • Touch screen for maximum user convenience
Radio	Digital Tuner Feature • Digital Tuner using PPL method that supports memory of 6 broadcast stations for each AM, FM1, and FM2 modes Integrated Antenna (RADIO+NAVI) • Outstanding reception via integrated antenna with high sensitivity Radio broadcast station name • Displays broadcast station names for key locations
DVD/VCD/CD Player	Auto Play Feature • Auto play feature upon inserting Audio CD, MP3, VCD or DVD discs • Supports PBC (Playback Control) • Information included within video CDs can be enjoyed by using the interactive menu encoded in MPEG1 version 2.0 VCD discs.
Miscellaneous	Digital Screen Control • Easy control of screen brightness, contrast, color and saturation Equipped with Central Controller • Possible to use all system features with one central controller

Part 1. Basic

Component Names and Functions

Head Unit

1. CD-IN LED	DISC LED
2. DISC IN/OUT	DISC insert/eject key
3. DISC Insert Slot	DISC insert/eject slot
4. DISP	Displays current date and time
5. Power/Volume knob	• Used to turn device power ON/OFF and control volume • 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 AV off • Turn left/right to adjust volume

6, 7. SEEK/ TRACK	When the [∧SEEK] [TRACK∨] keys are pressed shortly (under 0.8 seconds)
	  • In FM/AM mode, searches broadcast frequencies saved to presets
	  • In DVDP CD/MP3/DVD and USB/iPod modes, changes the track, file or chapter
	When the [∧SEEK] [TRACK∨] keys are pressed and held (over 0.8 seconds)
	  • In FM/AM mode, automatically searches broadcast frequencies and channels
	  • In DVDP CD/MP3/DVD and USB/iPod modes, rewinds or fast forwards the track or file

8. FM/AM	• Operates FM/AM mode • Each time the key is pressed, mode is changed in order of FM1→FM2→AM
9. SAT	• Operates XM mode
10. MEDIA	• Operates CD, MP3, DVD, VCD, USB, iPod, AU, Bluetooth Streaming Audio modes • If the media is not connected or a disc is not inserted, corresponding modes will be disabled
11. TUNE/FILE knob	• In FM/AM mode, turn to change broadcast frequencies • In CD, MP3, USB, and iPod modes, turn to search tracks/channels/files. When the desired channel or file name is displayed, press to operate the corresponding track/channel/file

Part 1. Basic

Component Names and Functions

Front Central Controller
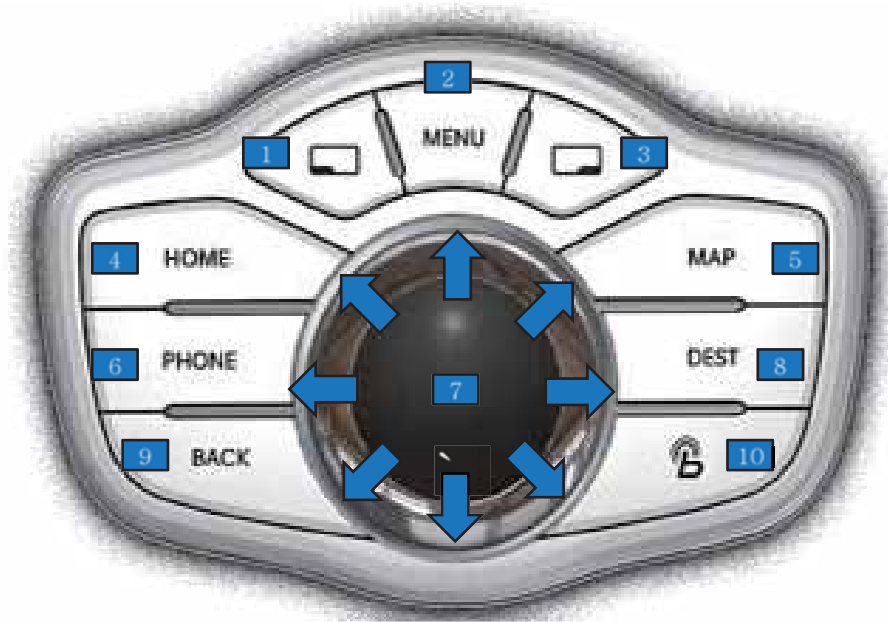
1. LFT	Left Soft Key
2. MENU	Displays MENU popup screen
3. RHT	Right Soft Key
4. HOME	Displays HOME screen
5. MAP	Displays the map for the current position
6. PHONE	Converts to Bluetooth® Handsfree mode
7. Controller (O)	All desired functions can be operated by turning, 8-directional pushing and pressing the controller.
8. DEST	Displays the Destination setup menu
9. Back	Displays the previous screen
10. Blue Link	Displays Blue Link mode

2 AV

- FM/AM
- XM
- Pandora
- CD
- MP3
- DVD
- VCD
- JUKEBOX
- USB
- iPod
- AUX
- Bluetooth Audio

Part 2. AV (FM/AM)

Basic Mode Screen

Name	Description
1. Mode Display	Displays currently operating mode
2. Frequency Range and Presets	Display the frequency range and saved presets
3. Frequency	Currently playing frequency
4. Station Name	Name of current broadcast station
5. Control Panel	Converts to frequency search function, and preset mode When turned in Ω directions: moves to previous/next preset station When pushed in ← or → directions: moves to previous/next frequency When pushed in ↑ or ↓ directions: converts to TUNE or PRESET mode
6. Auto Store	Saves frequencies with superior reception to Preset buttons
7. MENU	Displays Scan/Save Preset/Auto Store/Sound Settings/Display Settings related menu screens
8. Presets	Moves to saved preset list
9. FM1/FM2	Converts to FM1 or FM2 mode
10. Scan	Plays frequencies with superior reception for 5 seconds each
11. Radio Text	Sets radio text function On/Off
12. HD Radio	Sets HD radio On/Off
13. View Ch. Info	Displays information of current frequency
11. Save Frequency	Saves current frequency
15. Presets	Moves to saved preset list
12. Sound Settings	Displays sound setup menu
13. Screen Settings	Displays display setup menu

Using the Mode

Press the [HOME] key ▶ Select the desired FM or AM mode

Press the [FM/AM] key on the head unit to change the mode in order of FM1-> FM2-> AM.

Information
• Pressing the [FM/AM] key while the power is off will automatically turn the device on and start radio mode.

Using Autostore

Push the [○] in ↓ direction to enter Preset mode.

- When turning the controller in Ω direction: receives previous/next preset station
When pushed in ← or → directions: : Changes the frequency while pressed and receives the next frequency upon release.

-If the [SEEK/TRACK] keys are shortly pressed (under 0.8 seconds): Plays previous/next frequency
-If the [SEEK/TRACK] keys are pressed and held (over 0.8 seconds): changes the frequency while pressed and receives the next frequency upon release.

Using TUNE

Push the [○] in ↑ direction to enter Tune mode.

Push the [○] or turn the [TUNE/FILE] knob in Ω direction to select the desired frequency.

• FM1 / FM2: Increases/decreased by 100kHz
• AM: Increases/decreased by 9kHz

Saving Radio Frequencies

Saving Automatically (Autostore)

Press the [Soft1] and select the Autostore feature to automatically save receivable frequencies with superior reception to preset buttons

• A total of 36 frequencies with 12 preset frequencies each for FM1/FM2/AM modes can be saved.
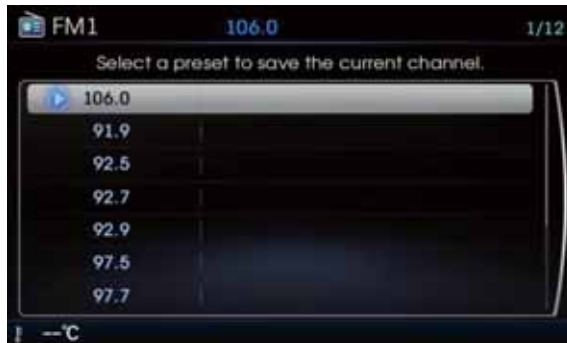
Information
While Autostore is operating, pressing the [○] will cancel the function and return to the previous frequency.

Selecting Stations Manually

Turn the [◯] in Ω direction and select the desired frequency ▶ Press and hold the [◯] ▶ Select position to save preset

After selecting the desired preset, press and hold (over 0.8 seconds) the [◯]. A 'beep' will sound and the frequency is saved to the selected preset button.

> **_Information_**
> Stations can also be saved manually by pressing the [MENU] key ▶ Pressing [Save Preset].

Scanning Radio Frequencies

Press the [MENU] key ▶ Press [Scan]

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

> **_Information_**
> While Scan is operating, pressing the [◯] will cancel the function and return to the previous frequency.

Basic Mode Screen

Name	Description
1. Mode Display	Displays currently operating mode
2. Channel Range and Presets	Display the frequency range and saved presets
3. XM Image	XM channel image
4. Category, Channel, Title, Artist Information	Shows category, channel, title, and artist information
5. Control Panel	Converts to Channel search function, and preset mode When turned in Ω directions: moves to previous/next preset station When pushed in ← or → directions: : moves to previous/next Channel When pushed in ↑ or ↓ directions: converts to TUNE or PRESET mode
6. Preset List	Moves to saved preset list
7. Channel list	Channel list screen by category
8. MENU	Displays the menu screens
9. Preset List	Moves to saved preset list
10. XM1/XM2	Converts to FM1 or FM2 mode
11. Search Channel	Searches XM channels..
12. Scan	• Plays channel with superior reception for 5 seconds each. • Within preset mode, scans previously saved presets.
13. Category Lock	When searching for channels with the category lock set, only the channels within the fixed category can be searched.
14. Save Channel	Saves current frequency
15. Preset List	Moves to saved preset list
16. Channel list	Channel list screen by category
17. Sound Settings	Displays sound setup menu
18. Screen Settings	Displays display setup menu

Using the Mode

Press the [HOME] key ▶ Select the XM mode
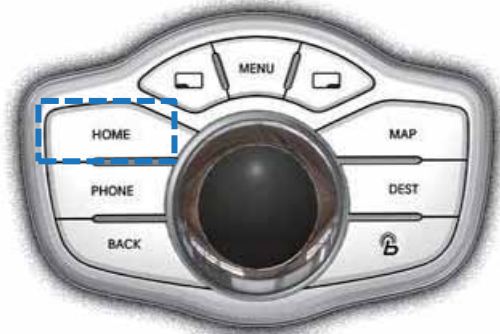
Press the [SAT] key on the head unit to change the mode in order of XM1-> XM2

Information
• Pressing the [XM] key while the power is off will automatically turn the device on and start radio mode.

Preset Mode

Push the [○] in ↓ direction to enter Preset mode.

- When turning the controller in Ω direction: receives previous/next preset channel
When pushed in ← or → directions: Changes the channel while pressed and receives the next channel upon release.

-If the [SEEK/TRACK] keys are shortly pressed (under 0.8 seconds): Plays previous/next channel.
-If the [SEEK/TRACK] keys are pressed and held (over 0.8 seconds): changes the channel while pressed and receives the next frequency upon release.

Channel Mode

Push the [○] in ↑ direction to enter channel mode.

Push the [○] in ↑ direction or turn the [TUNE/FILE] knob in Ω direction to select the desired channel.

Channel List

Press the [Soft1] key on the main screen or [Channel List] from the MENU.

-Once you select a category shown on the left column, lists of channels included within the selected category are displayed on the right column.
- Select the desired channel from the right column.

Presets

Press the [Soft2] key on the main screen or [Presets] from the MENU.

From the presets, select the desired channel.

Search Channel

from the MENU, press [Search Channel]..

- Turn the controller to enter the desired channel number.
- Press the [Soft2] or the [Back] key to return to the main screen.

Scan

from the MENU, press scan.

Channel Mode: Receives channels with good reception for 5 seconds each.
Preset Mode : Receives channels saved as presets for 5 seconds each.

Information
Pressing the controller during Scan will stop the scanning feature.

Category Lock

Press [Category Lock] from the MENU.

Once Category Lock is turned on, the Category Lock icon is displayed on the main screen. Upon operating seek with the Lock on, only channels within the category are searched.

Information

The Category Lock feature is turned off upon conducting the following operations.
- Selecting Category Lock from the Menu
- Selecting a Preset channel
- Manually changing channels
- Operating Scan
-Changing XM1,2
-Changing the AV mode

Save Channel

Press [CCP] or [Save Channel] from the MENU.
From the Preset list, select the position where you want to save.

- Upon saving a channel, the Preset list screen is displayed. Select the channel you want to delete from the Preset list.
- Delete a previously saved channel to save the current channel.

Part 2. AV (Pandora)

Basic Mode Screen

Name	Description
1. Mode Display	Displays currently operating mode
2. Album Image	Displays title album image
3. Station, Title, Artist Information	Station, Title, Artist
4. Control Panel	When turned in Ω directions: moves to previous/next station When pushed in → directions: Skip the now playing song
5. Thumb Down	Thumbs down the current song.
6. Menu	Displays the menu screens
7. Thumb Up	Thumbs up the current song.
8. Station	Enters the station list screen.
9. Why this track is playing	Enters the "Why this track is playing" screen.
10. Bookmark this track	Bookmarks the track.
11. Bookmark this Artist	Bookmarks the artist.

Using the Mode

Press the [HOME] key ▶ Select the Pandora mode
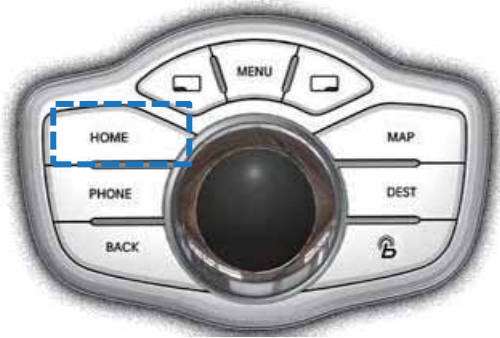
Information

-In order to operate Pandora Radio, the system must be connected to the related device through Bluetooth and Pandora Radio must be operating within the connected device.
- Features available within Pandora Radio Mode may differ depending on the Pandora Radio specification within the connected device.

Main Controller

- When turning the controller in Ω direction: Searches stations, press to listen to selected station.
When pushed in → directions: Skip the now playing song

-If the [SEEK/TRACK ▶] keys are shortly pressed (under 0.8 seconds): Skip the now playing song

Thumb Down

Press the [Soft1] key.

• You can thumb down the currently playing song to play the next song.

Part 2. AV (Pandora)

Thumb Up

Press the [Soft2] key.
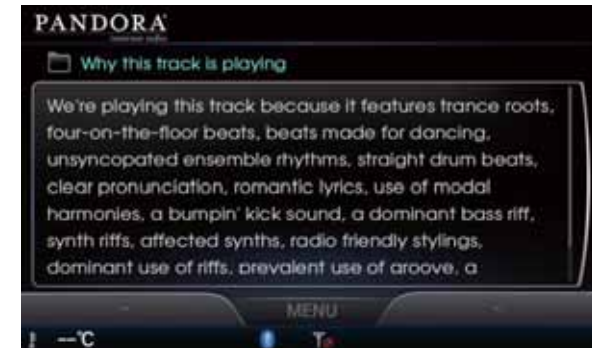

• Thumb up the currently playing song.

Station

Press [Station] from the MENU.

- Use the controller to select the desired
station.
- Use the [Soft1] key to sort station lists
by date or name.

Why this track is playing
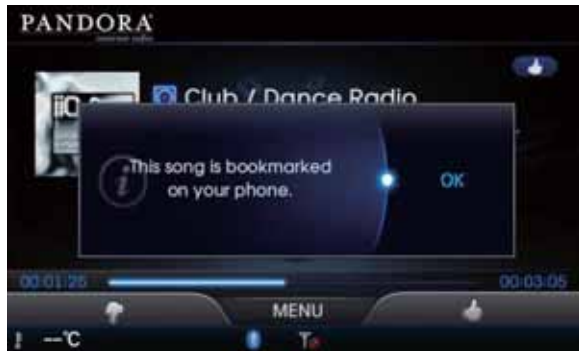
Press [Why this track is playing] from the
MENU.

This option is used to display information
about the currently playing song.

Bookmark this track

Press [Bookmark this track] from the MENU.

• This option is used to bookmark the current track.

Bookmark this Artist

Press [Bookmark this Artist] from the MENU.

• This option is used to bookmark the artist of the current song.

About Discs

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 and video 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: -10℃ ~ 65℃)

• 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 could be the cause of product malfunction. Remove the disc and wait until the moisture dries.

• Skipping may occur to the audio and video when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle. In case of severe shock, video and audio may not properly play.

• Do not attach stickers or labels on to discs. Stickers or labels could cause damage to the system.

• Do not insert more than one disc at once. Such acts could lead to product damage or malfunctions.

• Do not forcefully eject or pull on discs when a disc is being loaded into the disc player. Such acts could lead to product damage or malfunctions.

Part 2. AV (DISC)

Supported Disc Formatst

This device supports the following disc formats.

Disc Type

Disc Type	Disc Format	Device Support
CD	3" (8cm) 5" (12cm) CD CD-R CD-RW Multisession-CD	O O O O (Read Only) O (Read Only) O (Read Only)
DVD	DVD DVD±R DVD±RW DVD-RAM	O O (Read Only) O (Read Only) X
SACD	SACD (Single, SACD layer) SACD (Hybrid)	X O (Only CD layer)

Disc Formats

Disc Type	Disc Format	Device Support
CD	3CD-DA MP3 WMA MPEG4 AAC VIDE-CD DTS-CD CD-RM CD-G CD-EXTRA CD-TEXT	O O O X O O O O O O
DVD	MPEG4(VIDEO) DivX® (VIDEO) DVD DVD-VIDEO DVD-AUDI DVD-RM DVD-VR CPRM	X X O O O O O

Disc/Content Format Compatibility

By Format according to Disc Type

Disc Type	Disc Format	Device Support
DVD	LPCM Dolby Digital DTS MPEG	O O O O
CD	LPCM	O
MP3	MPEG1, Layer3 MPEG2, Layer3 MPEG2.5	O O O
WMA	Ver9	O

Dual-Layer DVD Video Discs

When playing a dual-layer disc, video/ sound lags may occur for up to several seconds. Such phenomena are not unusual when using a dual-layer disc and
do not signal a product malfunction. CD-R or CD-RW DISC without quality guarantees or discs over 650mb may not be properly recognized by the device. Inserting an abnormal disc may result in faulty operation/recognition.

Part 2. AV (DISC)

DVD Region Code

The DVD Player and DVD discs are assigned region codes. The region code of this device is <3>.

Discs that have region codes besides <3> or <ALL> cannot be played.

PBC (Play-Back Control)-Compatible Video CD

This device supports PBC-compatible Video CDs.

Ordinary Disc Compatibility

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

DVD-Video   Audio-CD   Video-CD

· This device supports the IEO Super VCD standard. Super VCD supports outstanding quality and supports 2 sound tracks upon recording.
· 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, Video 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 the 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 Korean or 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), 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), 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".

Part 2. AV (DISC)

· 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 a MP3 Disc

Supported MP3 File Specification

· Acceptable standard: MPEG1 AUDIO LAYER 33

· 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 /44.1kHz

Notice
· Supported ID3 tags : ID3v1 0, ID3v1 1, 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 700M may result in faulty disc recognition or errors upon play.

Part 2. AV (DISC)

MP3 File Structure
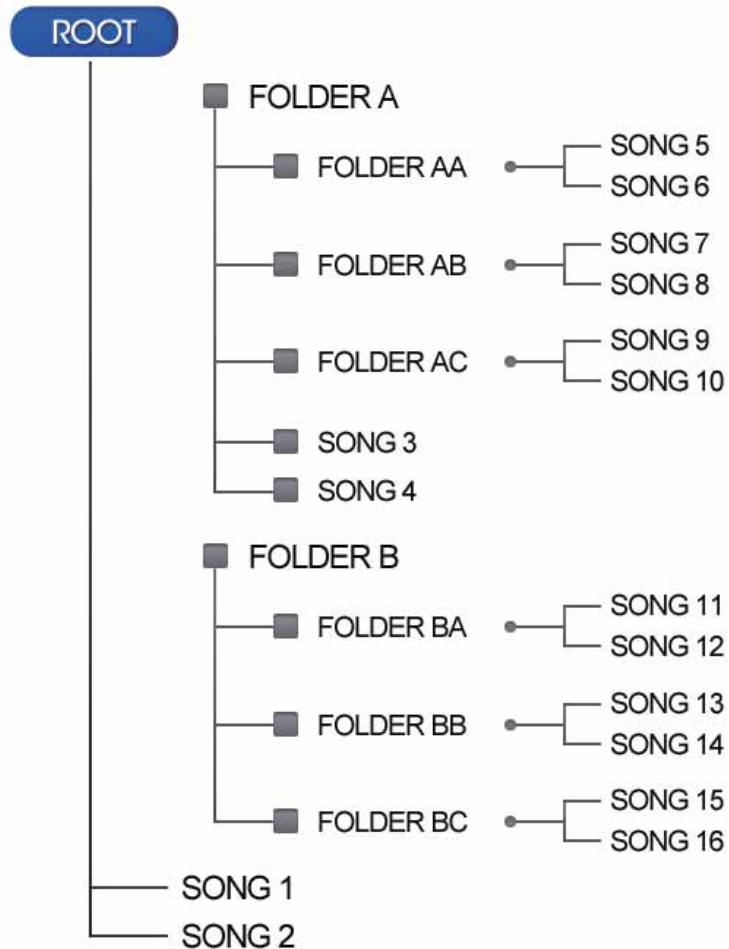
Folder structure as saved in CD-ROM
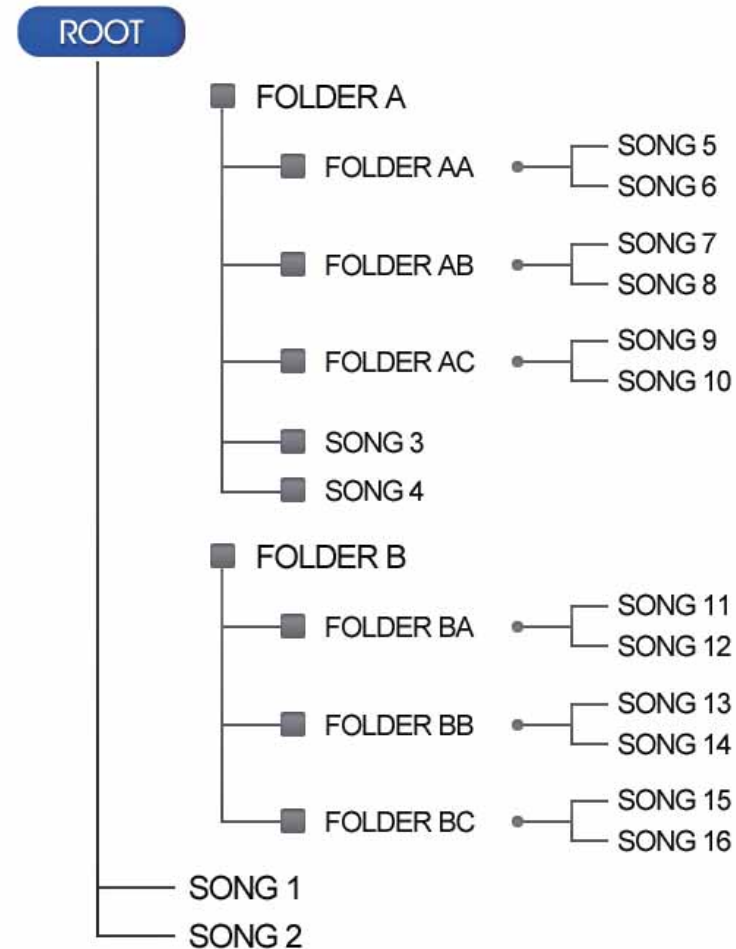
Folder structure recognized by the DVDP

About DVD Titles

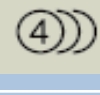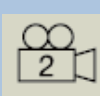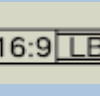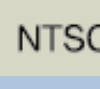### Understanding of the DVD Titles

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• Contents of DVD Titles
The video and sound recorded on a DVD are divided into titles and can be recognized by their title numbers. Each title is sub-divided into smaller units called chapters and each chapter can be recognized by the chapter number. The title number and chapter number of the currently playing DVD title is displayed on the upper side of the DVD operation menu screen.

• DVD Region Code
The DVD player and DVD discs are set with region codes and can be played in accordance to the sales region. If a disc besides "Region Code 3(Korea)" or "All region disc" is inserted, then a "Region Code Error" screen will be displayed and the disc will not normally play.
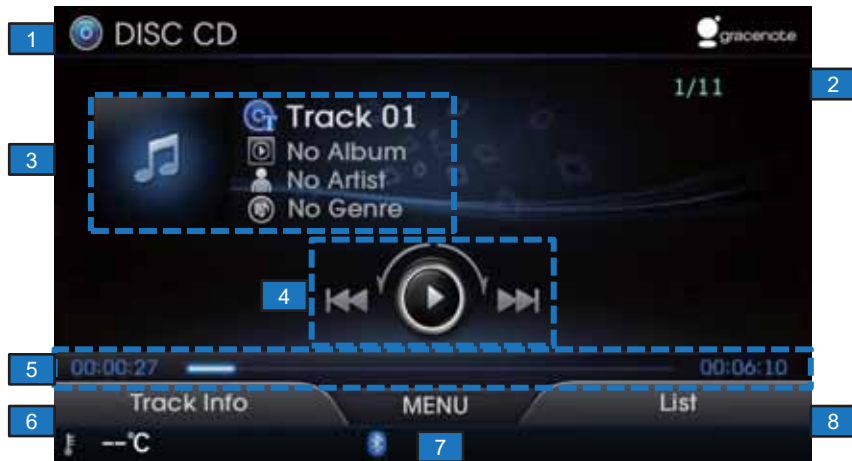
재생기능한 지역코드

Icon	Description
	Shows the supported region codes.
2	Up to 32 subtitles can be recorded within a DVD. The number within the icon indicates the number of subtitle languages recorded within the DVD.
4	Up to 8 voice languages can be recorded within a DVD. The number within the icon indicates the number of voices languages recorded within the DVD.
2	DVD allows viewing of filmed footage from up to 9 angles (multi-angle). The number within the icon indicates the number of screen angles.
16:9 LB	This icon the screen ratio and display method. "16:9" or "4:3" indicates the screen proportion (ratio) while "LB", "PS" and "WIDE" indicates the screen display method and stands for "Letter Box", "Pan-Scan" and "Wide Screen", respectively.
NTSC	NTSC: This is the color method as used in Korea, Japan and the United States.

Color TV Support

This device supports NTSC color encoding methods. Other methods besides NTSC may not be supported.

Part 2. AV (CD)

Basic Mode Screen

Name	Description
1. Mode	Displays currently operating mode
2. Track Index	Shows the current track/total tracks
3. Play File Info	Shows track number/album/artist/genre info
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Moves to previous/next track When pushed in ← or → directions: : Plays previous/next song When pressed :Plays or pauses
5. Play Time	Displays the current play time and total play time
6. Track Info	Shows track info
7. MENU	Displays Shuffle/Repeat/Scan/Auto Playlist/ Sound Setting/Display Setting
8. List	Moves to the track list screen
9. Shuffle	Plays disc tracks in random order
10. Repeat	Repeats the current track or entire tracks
11. Scan	Scans the beginning parts of disc tracks (approx 10 seconds per track)
12. Auto Playlist	Moves to list screen showing current song and similar songs
13. Sound Settings	Displays sound settings screen
14. Display Settings	Displays display settings screen

Starting Mode

Press the [HOME] Key ▶ Select [Disc] Menu
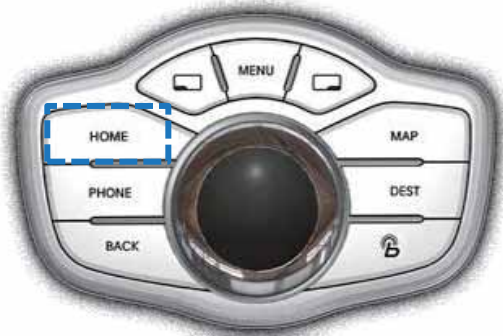
CD mode will automatically start once a CD is inserted

Playing a CD

CD will automatically play once a CD is inserted, press the [○] button to pause the track.

Selecting a Track

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next track.

Fast-forwarding or Rewinding CD Tracks

While playing ▶ Push and hold the [○] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the track.

While the [○] or [SEEK] [TRACK] key is being operated, the track will rewind or fast-forward at 20x speed. Once released, the track will begin playing at normal speed.

Searching CD Tracks

Turn the [○] or [TUNE/FILE] knob to search tracks

From the searched tracks, once the desired track name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding track.

Information
•When searching, the track info is displayed in blue.
•Pressing the [○] or [TUNE/FILE] knob will play the selected track and display the basic display specification.

Using the Menu Buttonst

Press the [Menu] button to set the Shuffle, Repeat, Scan, Auto Playlist options as well as Sound Settings and Display Settings.

Shuffle

Press the [MENU] key ▶ Select [Shuffle] ▶ Set Shuffle All to On.

Songs within the current playlist are played
in random order.

Information
Select the [Off] to turn the shuffle option off.

Repeat

Press the [MENU] key ▶ Select [Repeat] ▶ Set Repeat to On.

The current track is repeated.

Information
Select the [Off] button to turn off repeat.

Scan

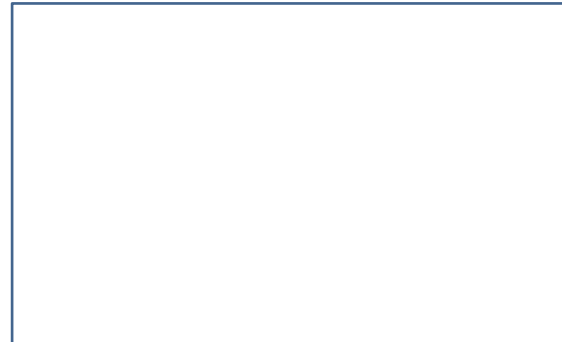Press the [MENU] key ▶ Press [Scan] ▶ Press [Scan All]

The beginning (approx 10 seconds) of all tracks within the CD are scanned.

Information
• Press the [Off] button again to turn the scan option off.

Auto Playlist

Press the [MENU] key ▶ Press [Auto Playlist]

List of songs within the CD similar with the current song is displayed.

Information
•For more information on Sound and Display settings, refer to the Info/Setup section.

Track Info/Play Information

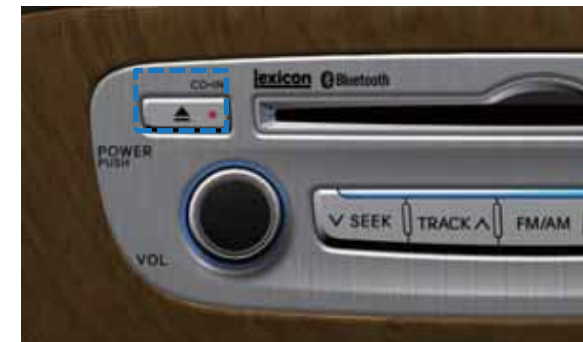Press the [LHT] to select Track Info to view track information, such as title, album, artist, genre, and track number.

Press [Play Info] to restore the previous display

Information
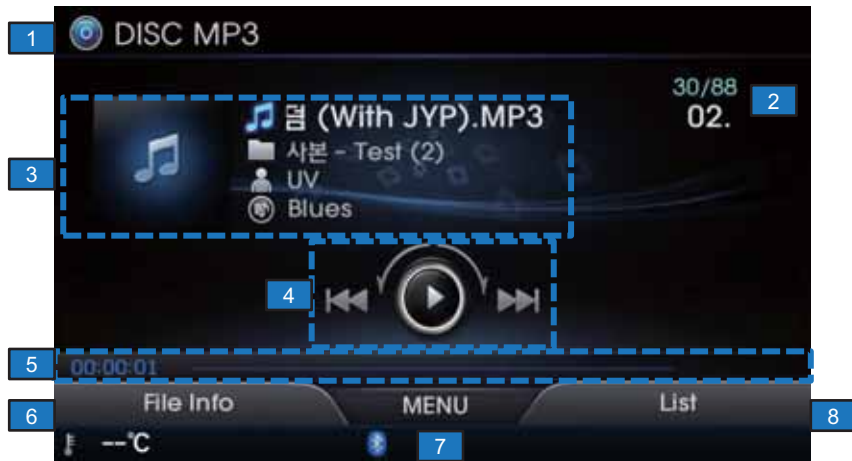• Artist/album info are supported within Text CDs.

Ejecting Disc

Press the [▲] key to eject the disc.

Part 2. AV (DISC MP3)

Basic Mode Screen

Name	Description
1. Mode	Displays currently operating mode
2. Track Index	Shows the current MP3 file/total number of MP3 files
3. Play File Info	Shows track number/album/artist/genre info
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Moves to previous/next track When pushed in ← or → directions: : Plays previous/next song When pressed :Plays or pauses
5. Play Time	Displays the current play time
6. Track Info.	Shows track info
7. MENU	Displays Shuffle/Repeat/Scan/Sound Settings/Display Settings menus
8. List	Moves to the track list screen
9. Shuffle	Plays disc tracks in random order
10. Repeat	Repeats the current track or entire tracks
11. Scan	Scans the beginning parts of disc tracks (approx 10 seconds per track)
12. Sound Setting	Moves to the sound setting screen
13. Display Setting	Moves to the display setting screen

Starting Mode

Press the [HOME] Key ▶ Select [Disc] Menu

MP3 mode automatically starts when an MP3 disc is inserted.

__Information__
• If there are numerous songs and folders within the disc, reading time could take more than 10 seconds and the list may not be displayed or song searches may not operate. Once loading is complete, try again.

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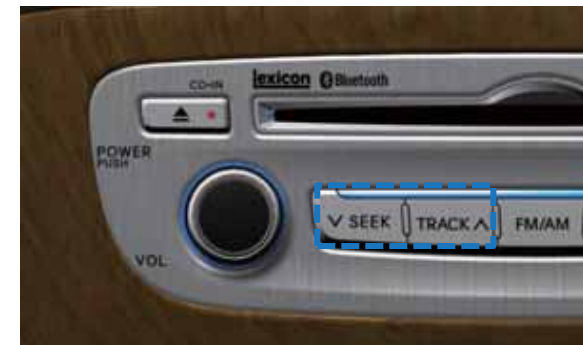

Playing DISC MP3

Once a CD is inserted, the DISC MP3 will automatically being playing. Pressing the [◯]again will pause the current song.

Selecting DISC MP3 files

While playing ▶ Shortly push the [◯] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next file.

Fast-forwarding or Rewinding DISC mp3 Tracks

While playing ▶ Push and hold the [◯] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the file.

While the [○] or [SEEK] [TRACK] key is being operated, the file will rewind or fast-forward at 20x speed. Once released, the track will begin playing at normal speed.

Searching DISC MP3

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for files.

From the searched files, once the desired file name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding file.

During search, the file name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected file and display the basic display info.

Searching DISC MP3 List

Press the [Soft2] to select the list and check the playlist.

Turn the [○] in Ω direction to select and play the desired file.

Using the Menu Buttons

Press the [MENU] key to use the Shuffle, Repeat, Scan, Sound Settings and Display Settings.

Shuffle

Press the [MENU] key ▶ select [Shuffle] ▶ Select [Shuffle Folder] or [Shuffle All]

All songs or songs within the current folder can be played in random order.

Name	Description
1. Shuffle Folder	Plays current folder in random order
2. Shuffle All	Plays all files in random order

Information
•Press [Off] to turn the Shuffle feature off.

Repeat

Press the [MENU] key ▶ Select [Repeat] ▶ Press [Repeat Song] or [Repeat Folder]

The current song or the all files within the folder can be repeated.

Name	Description
1. Repeat Song	Repeat current song
2. Repeat Folder	Repeat current folder

Information
•Press [Off] to turn the Repeat feature off.

Scan

Press the [MENU] key ▶ Press [Scan] ▶ [Scan All] or [Folder Scan]

The beginning part (approximately first 10 seconds) of all files within the current folder or the entire DISC MP3 are scanned.

Name	Description
1. Scan All	Scans the beginning parts (approx 10 seconds) of all files
2. Folder Scan	Scans the beginning parts (approx 10 seconds) of all files within the current folder

Information
•Press [Off] to turn the Scan feature off.

File Info/Play Info

Press the [Soft1] to select File Info to display file information, such as the title, album, artist, genre, file name, and folder location.
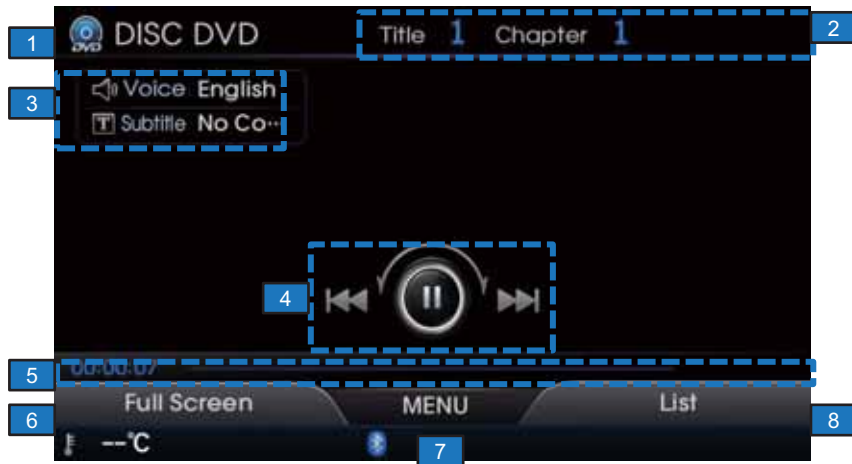

To return to the previous screen, press the [Soft1] to select Play Info.

Information

• No information are shown for MP3 files without file information.

• For more information on Sound and Display settings, refer to the Info/Setup section.

Part 2. AV (DVD)

Basic Mode Screen

Name	Description
1. Mode	Displays currently operating mode
2. Title/Chapter Index	Shows the current DVD title/chapter number of the DVD
3. Code Information	Shows information on voice and subtitle codes
4. Control Panel	Enables use of play/pause/search features When turned in Ω directions: Searches previous/next chapter When pushed in ← or → directions: Plays previous/next chapter When pressed :Plays or pauses
5. Play Time	Shows the current and total play time of current chapter
6. Full screen	Converts DVD into full screen
7. MENU	Displays Title Menu/DVD Menu/Subtitle Language/Voice Language/Sound Settings/Display Settings/DVD Default Language menus
8. List	Displays the List Screen
9. Title Menu	Moves to the title menu screen
10. DVD Menu	Moves to the DVD menu screen
11. Subtitle Language	Set Subtitle Language
12. Voice Language	Set Voice Language
13. Sound Setting	Moves to the sound setting screen
14. Display Setting	Moves to the display setting screen
15. DVD Default Language	Moves to the DVD default language setting screen

Starting Mode

Press the [HOME] Key ▶ Select [Disc] Menu
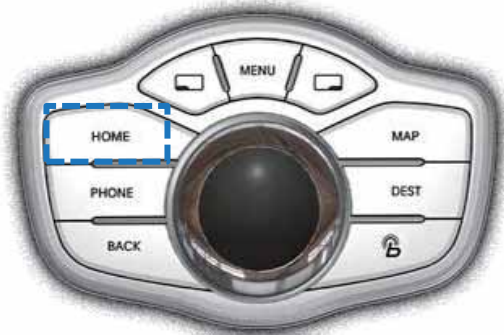
The mode will be disabled when a DVD disc has not been inserted.

Information
• Only genuine DVDs are supported. Other discs may result in recognition failure (e.g. copy DVD-R, DVDs with labels)

Playing a DVD

Once a DVD is inserted, the DVD will automatically begin playing. Pressing the [○] again will pause the DVD.

Selecting a Chapter

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next chapter.

Searching Chapter

While playing ▶ Push and hold the [○] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the current DVD.

While the [○] or [SEEK] [TRACK] key is being operated, the DVD will rewind or fast-forward at 20x speed. Once released, the DVD will begin playing at normal speed.

Searching Titles/Chapters

Press the [List] button to search DVD titles and chapters.

Searching Titles

Press the [Soft1] and [Soft2] to change to the previous or next title.

Searching Chapters

Turn the [○] in Ω direction or shortly press the [SEEK]TRACK] key (under 0.8 seconds) to select the previous/next chapter.

Information
• The 1 displays the total number of titles within the current DVD disc.

• The 2 displays the total number of chapters within the title.

• The title/chapter search feature can only be used while the DVD is playing. The feature will not operate during the initial DVD screen or when menus are being displayed.

Using the Menu Buttons

Press the [MENU] key to use the Title Menu, DVD Menu, Subtitle Language, Voice Language, Sound Settings, Display Settings and DVD Default Language.

Information
• The DVD Menu and DVD Title options can only be used within DVDs that support these features. For DVD Menus, different DVD titles may have different menu organizations.

Part 2. AV (DVD)

Title/DVD Menu

Press the [MENU] key ▶ Select [Title Menu] or [DVD Menu]

Push the [○] in up/down/left/right directions to select the desired menu and press the
[OK] button.

> **_Information_**
> •This is supported only for DVD titles that support this feature.

Subtitle Language

Press the [MENU] key ▶ Select [Subtitle Language]

Select the desired language and press the [○] to change the subtitle language.

> **_Information_**
> •Supported languages may differ according to DVD title.

Voice Language

Press the [MENU] key ▶ Select [Voice Language]

Select the desired language and press the [○] to change the voice language.

> **_Information_**
> •Supported languages may differ according to DVD title.

DVD Default Language

Press the [MENU] key ▶ Select [DVD Default Language]

Viewing in Full Screen

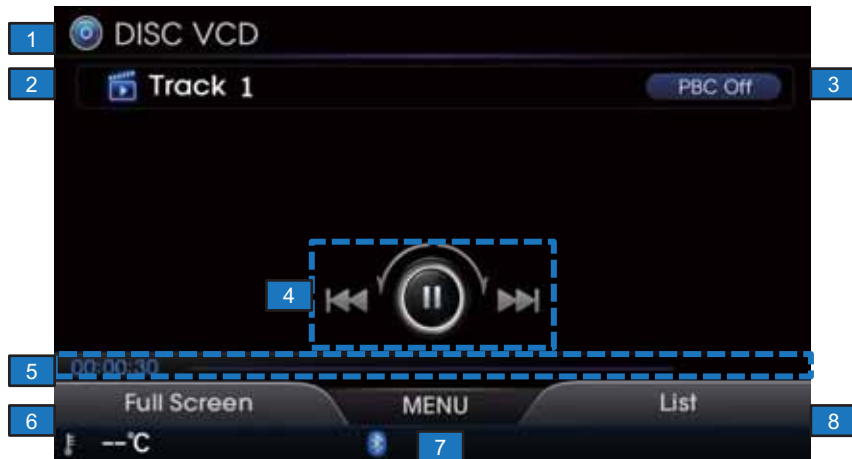Press the [Soft1] and select [Full Screen] to view the DVD in full screen.

Information
• If there are no operations for 10 seconds, the DVD menu will automatically disappear.
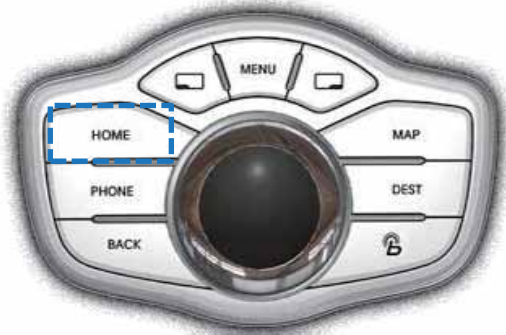•Press the [MENU] key or [○] to display the menu again.

Basic Mode Screen

Name	Description
1. Mode	Displays currently operating mode
2. Track Index	Shows the current track number
3. PBC	Displays PBC On/Off status
4. Control Panel	Enables use of play/pause/search features When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Plays previous/next file When pressed :Plays or pauses
5. Play Time	Displays the current play time/total play time
6. Full Screen	Converts VCD into full screen
7. MENU	Displays View PBC/PBC Menu/Repeat/Sound Settings/Display Settings menus
8. List	Moves to the list screen
9. View PBC	Turns PBC On/Off
10. PBC Menu	Moves to the PBC Menu screen
11. Repeat	Repeats the current VCD
12. Sound Setting	Moves to the sound setting screen
13. Display Setting	Moves to the display setting screen

Starting Mode

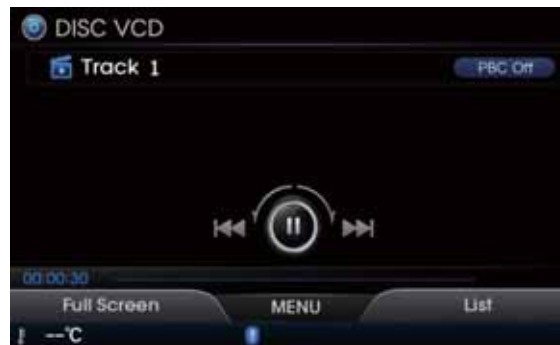Press the [HOME] Key ▶ Select [Disc] Menu

The mode will be disabled when a VCD disc has not been inserted.

Information
• Only genuine VCDs are supported. Other discs may result in recognition failure . (e.g. Copied CD-R, CDs with labels)
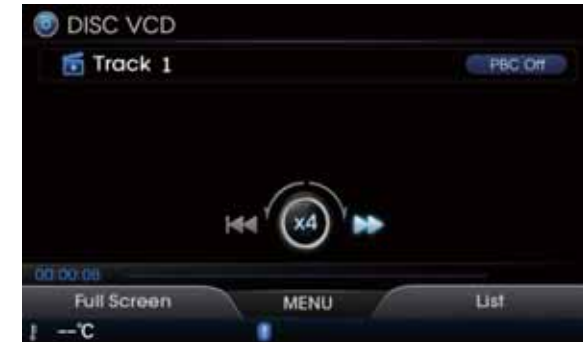

Playing a VCD

Once a VCD is inserted, the VCD will automatically begin playing. Pressing the [○] again will pause the VCD.

Fast-forwarding or Rewinding VCD tracks

While playing ▶ Push and hold the [○] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the current VCD.

While the [○] or [SEEK] [TRACK] key is being operated, the VCD will rewind or fast-forward at 20x speed. Once released, the VCD will begin playing at normal speed.

Selecting VCD tracks

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next track.

Searching VCD tracks

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for tracks. From the searched tracks, once the desired file name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding track.

During search, the track name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected track and display the basic display info.

Searching VCD List

Press the [List] button to view the play list.

Select track you want to play.

Using the Menu Buttons

Press the [MENU] key to use the View PBC, PBC Menu, Repeat, Sound Settings and Display Settings.

PBC

Press the [MENU] key ▶ Press [View PBC] Press the [0]~[9] buttons ▶ Set and press [Done]

Within PBC ON state, press the [PBC MENU] button to display the PBC menu screen.

Information
• Press the [PBC OFF] button to turn the PBC setting OFF. The play screen will be displayed and the first track is displayed.
• Press the [<<] [>>] buttons to move to the previous/next list menu page.
• While in PBC ON mode state, turning the power or ignition ON/OFF will return the VCD to PBC OFF state.

Repeat

Press the [MENU] key ▶ Press [Repeat]

The current track is repeated.

Information
•Press the [Repeat] button again to turn off shuffle.

Viewing in Full Screen

Press the [Soft1] and select [Full Screen] to view the VCD in full screen.
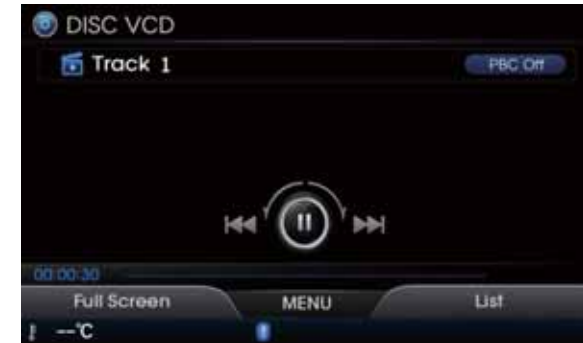
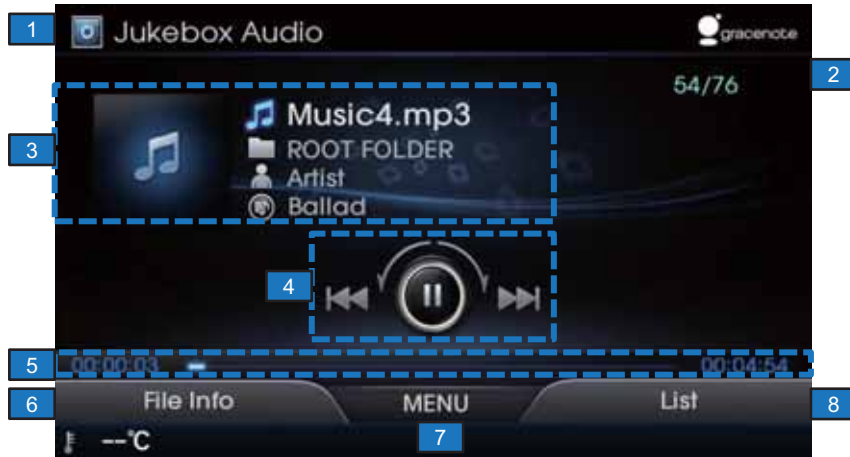
Information
•If there are no operations for 10 seconds, the VCD menu will automatically disappear.
•Press the [MENU] key or [○] to display the menu again.
•For more information on Sound and Display settings, refer to the Info/Setup section.
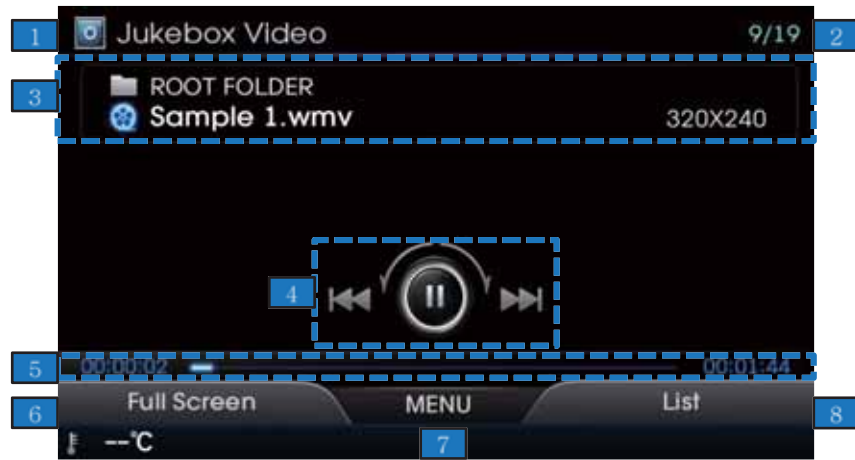
Part 2. AV (JUKEBOX)

Basic Mode Screen (Audio)

Name	Description
1. Mode	Displays currently operating mode
2. File Index	Shows the current files/total number of files
3. Play File Info	Shows file number/album/artist/genre information
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Plays previous/next file When pressed :Plays or pauses
5. Play Time	Displays the current play time and total time
6. File Info	Shows file information
7. MENU	Moves to Shuffle/Repeat/Scan/Auto Playlist/Jukebox Video/Jukebox Image/Sound Settings/Display Settings and other modes
8. List	Moves to the file list screen
9. Shuffle	Plays files in random order
10. Repeat	Repeats the current file or all files
11. Scan	Scans the beginning parts of files (approx 10 seconds per file)
12. Auto Playlist	Moves to list screen showing current song and similar songs
13. Jukebox Video	Moves to Jukebox video menu
14. Jukebox Image	Moves to Jukebox image menu
15. Sound Settings	Moves to the sound setting screen
16. Display Settings	Moves to the display setting screen

Part 2. AV (JUKEBOX)

Basic Mode Screen (Video)

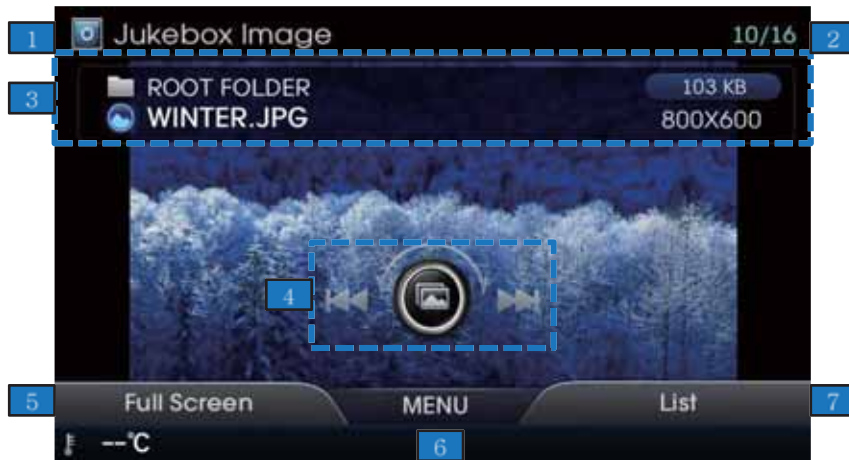| Name	Description
1. Mode	Displays currently operating mode
2. File Index	Shows the current files/total number of files
3. Play File Info	Shows the file name/folder path/resolution information
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Plays previous/next file When pressed :Plays or pauses
5. Play Time	Displays the current play time and total time
6. Full screen	Displays the video in full screen
7. MENU	Moves to Shuffle/Repeat/DivX Settings/Jukebox Image/Jukebox Audio/Sound Settings/Display Settings and other modes
8. List	Moves to the list screen
9. Shuffle	Plays files in random order
10. Repeat	Repeats the current file or all files
11. DivX Settings	Used to set DivX VOD related settings/subtitles and voice language settings
12. Jukebox Image	Moves to Jukebox image menu
13. Jukebox Audio	Moves to Jukebox audio menu
14. Sound Settings	Moves to the sound setting screen
15. Display Settings	Moves to the display setting screen

Part 2. AV (JUKEBOX)

Basic Mode Screen (Image)

Name	Description
1. Mode	Displays currently operating mode
2. File Index	Shows the current file/total files
3. Play File Info	Shows the file name/folder path/size/resolution information
4. Control Panel	Enables search/selection of previous/next files When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Shows previous/next file When pressed :Start/stops slideshow
5. Full Screen	Displays the image in full screen
6. MENU	Moves to Zoom in/Zoom out/Slideshow settings/Jukebox Audio/Jukebox Video/ Sound Settings/Display Settings and other modes
7. List	Moves to the list screen
8. Zoom In/Out	Enlarges/reduces image (zoom in/out)
9. Rotate	Rotates image
10. Slideshow	View images as slideshow
11. Jukebox Audio	Moves to Jukebox audio menu
12. Jukebox Video	Moves to Jukebox video menu
13. Sound Settings	Moves to the sound setting screen
14. Display Settings	Moves to the display setting screen

Starting Mode (Audio)

Press the [HOME] key ▶ Select [Jukebox]

Once [Jukebox] is selected, the most recently operated mode (Audio, Image, and Video) will operate.

Information
• If there are no files saved in the Jukebox, then the Jukebox button will be disabled.

Playing Jukebox Audio

Once Jukebox mode is selected, the Jukebox audio will automatically begin playing. Pressing the [○] again will pause the current file.

Information
• If the most recently operated mode was video or image mode, press [MENU] > [Jukebox Audio] to operate Audio mode.

Selecting Jukebox Audio Files

While playing ▶ Shortly press the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK/TRACK] key to select the previous/next file.
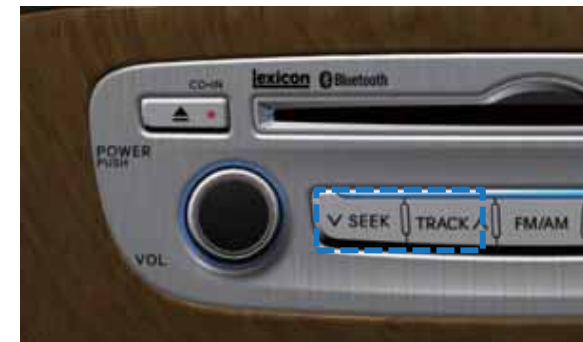
Searching Jukebox Audio Lists

Press the [List] button to check the play list.

Select the desired file you want to play.

Fast-forwarding or Rewinding Jukebox Audio Files

While playing ▶ Press and hold the [○] in ← or → direction (over 0.8 seconds) or press and hold the [SEEK/TRACK] key to fast-forward/rewind the current file.

While the [○] or [SEEK] [TRACK] key is being operated, the file will rewind or fast-forward at a high speed. Once released, the file will begin playing at normal speed.

Searching Jukebox Audio Files

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for files.

During search, the file name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected file and display the basic display info.

Using the Menu Buttons

Press the [MENU] key to use the Repeat, Shuffle, Scan, Auto Playlist, Sound Settings and Display Settings. This menu is also used to move to other Jukebox modes.

Part 2. AV (JUKEBOX)

Shuffle

Press the [MENU] key ▶ [Shuffle] ▶ [Shuffle]

This option is used to play audio files within the Jukebox in random order.

Information
•Press [Off] to turn the Shuffle feature off.

Repeat

Press the [MENU] key ▶ [Repeat] ▶ [Repeat]

The current song or the all files within the folder can be repeated.

Information
•Press [Off] to turn the Repeat feature off.

Scan

Press the [MENU] key ▶ [Scan] ▶ Select [Scan Playlist]

The beginning part (approximately first 10 seconds) of all files within the current folder or all Jukebox files are scanned.

Information
•Press [Off] to turn the Scan feature off.

Auto Playlist

Press the [MENU] key ▶ Select [Auto Playlist]

List of songs similar with the current song is displayed. The list can be used to select desired songs.

Moving to Jukebox Video

Press the [MENU] key ▶ [Jukebox Video]

Moving to Jukebox Image

Press the [MENU] key ▶ [Jukebox Image]

File Info/Play Info

Press the [Soft1] key to select File Info to view file information, such as title, album, artist, genre, fie name, and folder location.

To return to the previous screen, press the [Play Info] button.

Information
• Information will not be displayed for MP3 files without file information.
• For more information on Sound and Display settings, refer to the Info/Setup section.

Starting Mode (Video)

Press the [HOME] key ▶ [Jukebox]

Once [Jukebox] is selected, the most recently operated mode (Audio, Image, and Video) will operate.

Information
• If there are no files saved in the Jukebox, then the Jukebox button will be disabled.

Playing Jukebox Video

Once Jukebox mode is selected, the Jukebox video will automatically begin playing. Pressing the [◯] again will pause the current file.

Information
• If the most recently operated mode was audio or image mode, press [MENU] > [Jukebox Video] to operate Video mode.

Selecting Jukebox Video Files

While playing ▶ Shortly press the [◯] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK/TRACK] key to select the previous/next file.

Searching Jukebox Video Lists

Press the [List] button to check the play list.

Select the desired file you want to play.

Fast-forwarding or Rewinding Jukebox Video Files

While playing ▶ Press and hold the [○] in ← or → direction (over 0.8 seconds) or press and hold the [SEEK/TRACK] key to fast-forward/rewind the current file.

While the [○] or [SEEK] [TRACK] key is being operated, the file will rewind or fast-forward at a high speed. Once released, the file will begin playing at normal speed.

Searching Jukebox Video Files

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for files.

During search, the file name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected file and display the basic display info.

Using the Menu Buttons

Press the [MENU] key to use the Shuffle, Repeat, Shuffle, DivX Settings, Sound Settings and Display Settings. This menu is also used to move to other Jukebox

Shuffle

Press the [MENU] key ▶ [Shuffle] ▶ [Shuffle All]

This option is used to play video files within the Jukebox in random order.

> **_Information_**
> •Press [Off] to turn the Shuffle feature off.

Repeat

Press the [MENU] key ▶ [Repeat] ▶ [Repeat]

The current song or the all files within the folder can be repeated.

> **_Information_**
> •Press [Off] to turn the Repeat feature off.

DivX Settings

Press the [MENU] key ▶ [DivX Settings]

Upon first use of this feature, you must register your product through the DivX website.

Name	Description
1. DivX VOD	Set DivX VOD related options
2. Subtitle Language	Set Subtitle language
3. Voice Language	Set Voice language

Part 2. AV (JUKEBOX)

Moving to Jukebox Image

Press the [MENU] key ▶ [Jukebox Image]

Moving to Jukebox Audio

Press the [MENU] key ▶ [Jukebox Audio]

Viewing in Full Screen

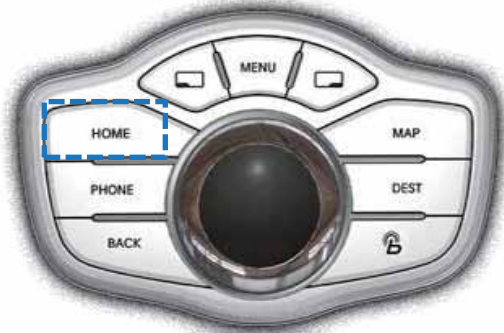Press the [Soft1] key and press [Full Screen] to view the USB in full screen.

Information

• For more information on Sound and Display settings, refer to the Info/Setup section.

Starting Mode (Image)

Press the [HOME] key ▶ [Jukebox]

Once [Jukebox] is selected, the most recently operated mode (Audio, Image, and Video) will operate.

> **Information**
> • If there are no files saved in the Jukebox, then the Jukebox button will be disabled.

Selecting Jukebox Image Files

While playing ▶ Shortly press the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK/TRACK] key to select the previous/next file.

Searching Jukebox Image Lists

Press the [List] button to check the image list.

Select the desired file you want to view.

Searching Jukebox Image Files

During search, the image name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected image and display the basic display info.

From the searched files, once the desired file name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding image.

Part 2. AV (JUKEBOX)

Press the [MENU] key to use the Zoom In/Out, Rotate, Slideshow, Copy, Sound Settings and Display Settings options. This menu is also used to move to other Jukebox modes.

Zoom In/Out

Press the [MENU] key ▶ [Zoom In/Out]

Turn the [○] in Ω direction to enlarge or reduce the image size. The scale can be changed to 1/4, 1/2, 1x, 2x, and 4x.

Information
• Press the [○] to restore the original image size.
• When images are not all displayed on the screen, pushing the [○] in up/down/left/right directions will display other images.

Rotate

Press the [MENU] key ▶ [Rotate]
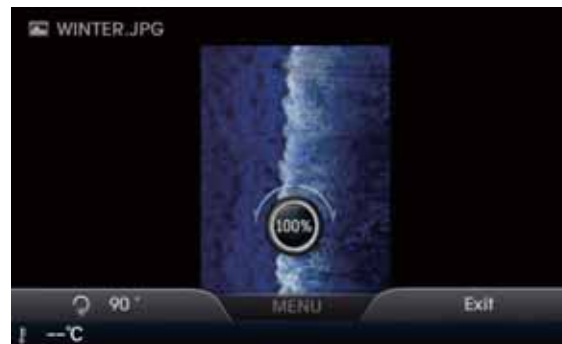
Each time the [○] is turned, the image is rotated from 0 → 90 → 180 → 270 degrees.

Information
•Press the [○] to restore the original image size.

Slideshow Setting

Press the [MENU] key ▶ [Slideshow]

Image slideshow intervals can be set at [5secs], [10secs], [20secs], [30secs] intervals.

Part 2. AV (JUKEBOX)

Moving to Jukebox Audio

Press the [MENU] key ▶ [Jukebox Audio]

Moving to Jukebox Video

Press the [MENU] key ▶ [Jukebox Video]

Viewing in Full Screen

Press the [Soft1] key and select [Full Screen] to view the USB in full screen.

Information
•For more information on Sound and Display settings, refer to the Info/Setup section.

Part 2. AV (USB)

About USB

Before playing a USB MP3

• 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 music/video/image files will not be played.

• For MP3/WMA files, only music files with compression rates between 8Kbps ~ 320Kbps 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 products formatted with byte/sectors under 64Kbyte will be recognized.

• This device recognizes USB devices formatted in FAT 12/16/32 as well as NTFS file systems.

• 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.

• Make sure to connect/disconnect external USB devices with the audio power turned off.

• 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.

• Please wait until the device fully recognizes the USB devices. The device supports only USB devices used to play music/video/image files.

• Do not use the USB I/F to charge batteries or USB accessories that generate heat. Such acts may lead to worsened performance or damage to the device.

• 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 using mass storage USB devices with separate logical drives, only files saved to the root drive can be played.

• When application programs are installed to specific USBs, files may not properly play.

Part 2. AV (USB)

• The device may not operate normally if MP3 Players, cellular phones, digital cameras, or other electronic devices (USB devices not recognized as portable disk drives) are connected with the device.

• Charging through the USB may not work for some mobile devices.

• The device may not support normal operation when using a USB memory type besides Metal Cover Type USB Memory.

• The device may not support normal operation when using formats such as HDD Type, CF, or SD Memory.

• Upon playing iPods, please use a dedicated iPod car cable. Normal operations cannot be guaranteed when other cables are being used.

• 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.

• Only use Plug type connector products, as shown in the figure below.

Plug 타임 커넥터

Product Name	Manufacturer
XTICK	LG
BMK	BMK Technology
SKY-DRV	Skydigital
TRANSCEND JetFlash	Transcend
Sandisk Cruzer	SanDisk
Micro ZyRUS	ZyRUS
NEXTIK	Digiworks

* Problems that occur through use of USB devices not listed within the above table are not covered by the product warranty.

• ABOUT DivX VIDEO:
• DivX is a digital video format created by DivX, LLC, a subsidiary of RoviCorporation. This is an official DivX Certified device that plays DivX video.
Visit divx.com for moreinformation and software tools to convert your files into DivX videos.
• ABOUT DivX VIDEO-ON-DEMAND:
• This DivX Certified device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.
• DivX Certified to play DivX video, including premium content.
• DivX , DivX Certified and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.
• Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

Part 2. AV (USB)

Information
• DivX Certified to play DivX video, including premium content.

• DivX , DivX Certified and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

• Covered by one or more of the following U.S. patents: :
7,295,673; 7,460,668; 7,515,710; 7,519,274

Caution
• In cases that are not fixed bit rates, the play time may not be properly displayed.

Information
• If a problem occurs while playing or when playing an unsupported video format file, use an up-to-date encoding software to change the format for use.

USB MP3 Information and Precautions

Information	Description
MP3 file Specification	Specification: MPEG1 AUDIO LAYER3
Recommended bit rates and sampling frequency	Acceptable sampling frequency:: 32, 44.1, 48 (KHz)
	Acceptable frequency: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (Kbps)
	96, 128, 192 Kbps fixed bit rate / 44.1KHz
ID3 Tag	Supports ID3v1.0 and ID3v1.1, ID3v2.2, ID3v2.3, ID3v2.4 ID3 tags
Detailed Specifications	Maximum directory layers: 20 layers Maximum length of folder name/file name: 255Bytes Supported characters for folder name/file name: Alphanumeric characters, Korean standard character set 2350 characters, Simplified Chinese 4888 characters Maximum number of folders which can be stored onto one USB: 2000 folders (including ROOT) Maximum number of files which can be stored onto one USB: 8000

Part 2. AV (USB)

Basic Mode Screen (Music)

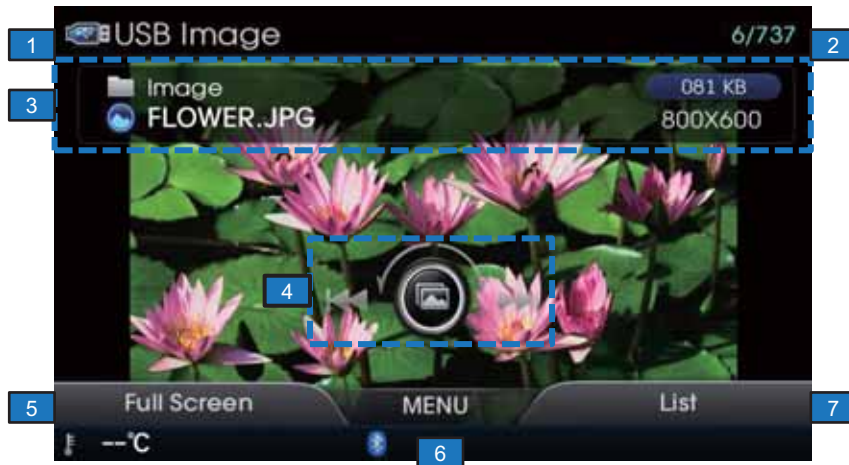| Name	Description
1. Mode	Displays currently operating mode
2. Track Index	Shows the current MP3 file/total number of MP3 files within the USB
3. Play File Info	Displays Track number/Album/Artist/Genre information
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Plays previous/next file When pressed :Plays or pauses
5. Play Time	Displays the current play time and total time
6. File Info	Shows file information
7. MENU	Moves to Shuffle/Repeat/Scan/Auto Playlist/Copy to Jukebox/Sound Setting/Display Setting and other modes
8. List	Moves to the track list screen
9. Shuffle	Plays disc tracks in random order
10. Repeat	Repeats the current track or entire tracks
11. Scan	Scans the beginning parts of disc tracks (approx 10 seconds per file)
12. Auto Playlist	Moves to list screen showing current song and similar songs
13. Copy	Copy USB MP3 file to Jukebox
14. USB Video	Moves to the USB Video
15. USB Image	Moves to the USB Image
16. Sound Settings	Moves to the sound setting screen
17. Display Settings	Moves to the display setting screen

Basic Mode Screen (Video)

Name	Description
1. Mode	Displays currently operating mode
2. File Index	Shows the current file/total number of files
3. Play File Info	Displays File name/Folder/Resolution information
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Plays previous/next file When pressed :Plays or pauses
5. Play Time	Displays the current play time/total play time of current USB video
6. File info	Shows file information
7. MENU	Moves to Shuffle/Repeat/Copy/DivX Setting/Sound Setting/Display Setting and other mode
8. List	Moves to the USB video list screen
9. Shuffle	Plays disc files in random order
10. Repeat	Repeats the current file or entire files
11. Copy	Copy USB Video file to Jukebox
12. USB Image	Moves to the USB image
13. USB Audio	Moves to the USB audio
14. Sound Settings	Moves to the sound setting screen
15. Display Settings	Moves to the display setting screen

# Part 2. AV (USB)

Basic Mode Screen(Image)

Name	Description
1. Mode	Displays currently operating mode
2. File Index	Shows the current image file/total image files within the USB
3. Play File Info	Displays File name/Folder/Size/Resolution information
4. Control Panel	Enables search/selection of previous/next files When turned in Ω directions : Searches previous/next file When pushed in ← or → directions: : Shows previous/next file When pressed :Start/stops slideshow
5. Full Screen	Viewing image in full screen
6. MENU	Moves to Zoom in/Zoom out/Slide show setting/Copy to Jukebox/Sound setting/Display Setting and other mode.
7. List	Moves to the USB image list screen
8. Zoom In/Out	Enlarges/reduces image (zoom in/out)
9. Rotate	Rotate image
10. Slideshow Setting	View images as slideshow
11. Copy	Copy USB image file to Jukebox
12. USB Audio	Moves to the USB Video
13. USB Video	Moves to the USB image
14. Sound Settings	Moves to the sound setting screen
15. Display Settings	Moves to the display setting screen

Starting Mode (Music Mode)

Press the [HOME] button ▶ Select [USB]
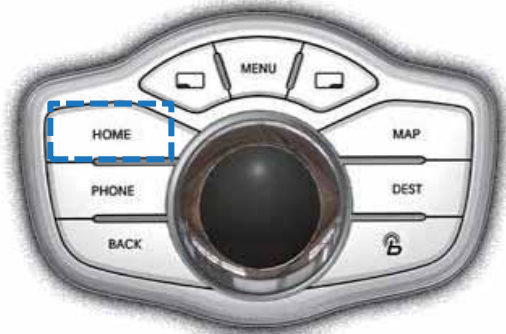
Once a USB is connected, USB Music mode will operate automatically.

Information
• If the USB is not connected, then the USB button will be disabled.

• If a previously played USB is reconnected, then the song after the most recently played song is played. However, if a different USB is connected or the file information within the USB was changed, then the USB file order information is deleted and will start playing from the first song within the USB.
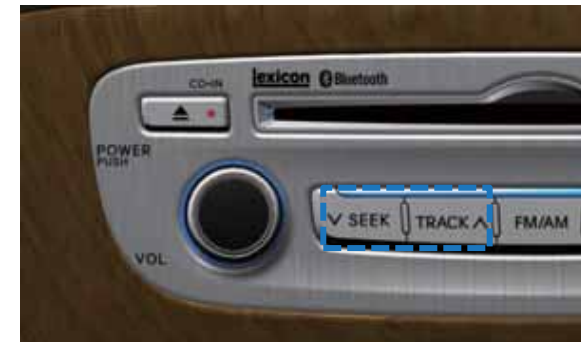
Playing USB Music

Once a USB is connected, the USB Music will automatically begin playing. Pressing the [○] again will pause USB Music.

Selecting USB Music Files

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next track.

Fast-forwarding or Rewinding USB Music Files

While playing ▶ Push and hold the [◯] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the current file.


While the [◯] or [SEEK] [TRACK] key is being operated, the file will rewind or fast-forward at 20x speed. Once released, the file will begin playing at normal speed.

Searching USB Music Files

Turn the [◯] or [TUNE/FILE] knob in Ω directions to search for tracks.

During search, the file name is displayed in blue. Press the [◯] or [TUNE/FILE] knob to play the selected file and display the basic display info.
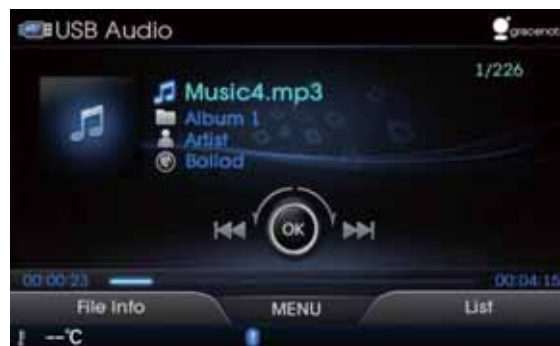
From the searched files, once the desired file name is displayed, press the [◯] or [TUNE/FILE] knob to play the corresponding file.

Using the Menu Buttons

Press the [MENU] key to use the Shuffle, Repeat, Scan, Auto Playlist, Copy, Sound Settings and Display Settings. This menu is also used to move to other USB play modes.

Shuffle

Press the [MENU] key ▶ Select [Shuffle] ▶ [Shuffle Folder] or [Shuffle All]

Part 2. AV (USB)

Name	Description
1. Shuffle Folder	Plays files within the current folder in random order.
2. Shuffle All	Plays files within the USB in random order.

Name	Description
1. Repeat Once	Repeats play of currently playing file.
2. Repeat Folder	Repeats the files in the current folder.

Name	Description
1. Scan All	Scans files within the USB in random order.
2. Folder Scan	Searches files within the current folder.

Information
•Press [Off] to turn the Shuffle feature off.

Information
•Press [Off] to turn the Repeat feature off.

Information
•Press [Off] to turn the Repeat feature off.

Repeat

Press the [MENU] key ▶ Select [Repeat] ▶ Select [Repeat] or [Repeat Folder]

The current song or the all files within the folder can be repeated.
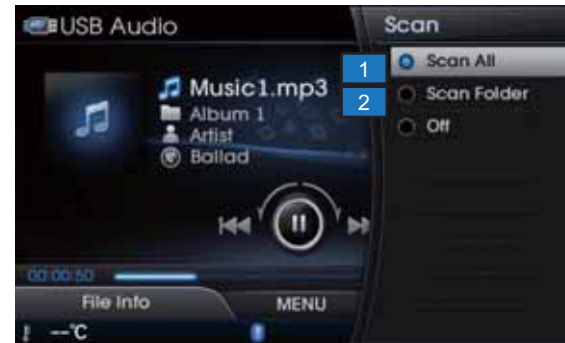
Scan

Press the [MENU] key ▶ Select [Scan] ▶ Select [Scan All] or [Scan Folder]

The beginning part (approximately first 10 seconds) of all files within the current folder or the entire USB are scanned.

Auto Playlist

Press the [MENU] key ▶ Select [Auto Playlist]
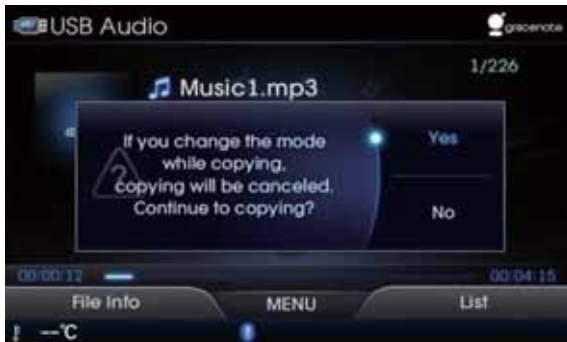

List of songs similar with the current song is displayed. The list can be used to select desired songs.

Copy to Jukebox

Press the [MENU] key ▶ Select [Copy] ▶ Set copy options

This feature is used to copy songs within the USB into the JUKEBOX.

Name	Description
1. Now Playing	Copy currently playing file into the Jukebox
2. Current Selection	Copy currently selected file into the Jukebox
3. Select Files	**Select files you want to copy**

Information
•Copying will be canceled if you move to a different mode while copying is in progress.

Move to the USB Video Mode

Press the [MENU] key ▶ Select [USB Video]

Move to the USB Image Mode

Press the [MENU] key ▶ Select [USB Image]

File Info/Play Info

Press the [LHT] to select File Info to view file information, such as title, album, artist, genre, fie name, and folder location.

To return to the previous screen, press the [Soft1] to select Play Info.

Information
• The title, artist and album info are displayed only when such information is recorded within the MP3 file ID3 tag.
•For more information on Sound and Display settings, refer to the Info/Setup section.

Starting Mode(Video Mode)

Press the [HOME] button ▶ Select [USB]

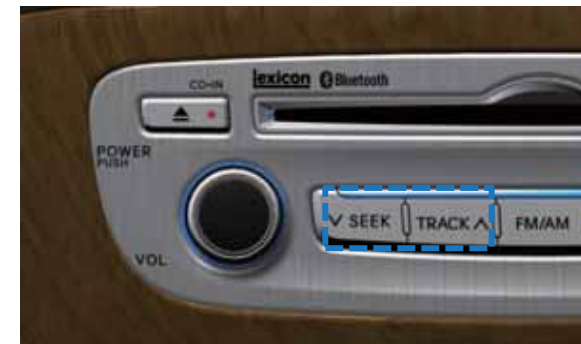Once a USB is connected, USB Video mode will operate automatically.

Playing USB Video

Once a USB is connected, the USB Video will automatically begin playing. Pressing the [○] again will pause USB Video.
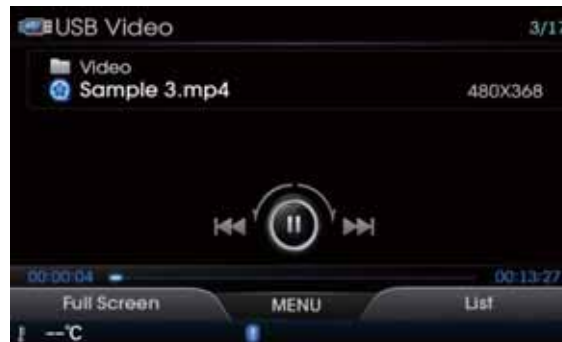
Selecting USB Video Files

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next file.

Fast-forwarding or Rewinding USB Video Files

While playing ▶ Push and hold the [○] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the current file.

While the [○] or [SEEK] [TRACK] key is being operated, the file will rewind or fast-forward at 20x speed. Once released, the file will begin playing at normal speed.

Searching USB Video Files

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for files.

During search, the file name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected file and display the basic display info.

From the searched files, once the desired file name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding file.

Using the Menu Buttons

Press the [MENU] key to use the Shuffle, Repeat, Copy, DivX, Sound Settings and Display Settings. This menu is also used to move to other USB play modes.

Shuffle

Press the [MENU] key ▶ Select [Shuffle] ▶ [Shuffle Folder] or [Shuffle All]

Name	Description
1. Shuffle Folder	Plays files within the current folder in random order.
2. Shuffle All	Plays files within the USB in random order.

Information
•Press [Off] to turn the Shuffle feature off.

Repeat

Press the [MENU] key ▶ Select [Repeat] ▶ Select [Repeat] or [Repeat Folder]

The current song or the all files within the folder can be repeated.

Name	Description
1. Repeat Once	Repeats play of currently playing file.
2. Repeat Folder	Repeats the files in the current folder.

Information
•Press [Off] to turn the Repeat feature off.

Copy to Jukebox

Press the [MENU] key ▶ Select [Copy] ▶ Set copy options

This option is used to copy video files within the USB to the JUKEBOX

Name	Description
1. Now Playing	Copy currently playing file into the Jukebox
2. Current Selection	Copy currently selected file into the Jukebox
3. Select Files	Select files to

Information
•Copying will be canceled if you move to a different mode while copying is in progress.

Part 2. AV (USB)

DivX Setting

Press the [MENU] key ▶ Select [DivX Setting]

When using DivX for the first time, you must register the product through the DivX website.

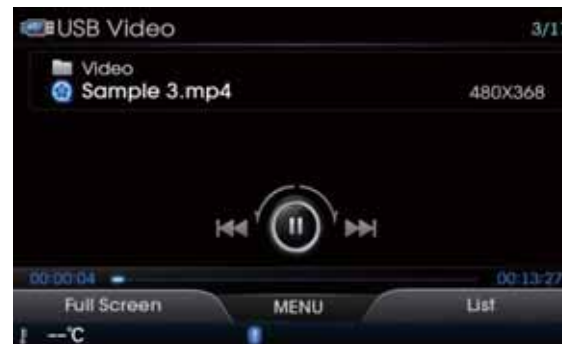| Name	Description
1. DivX VOD	Set DivX VOD features
2. Subtitle Language	Set subtitle language
3. Voice Language	Set Voice language

Move to the USB Image Mode

Press the [MENU] key ▶ Select [USB Image]

Move to the USB Audio Mode

Press the [MENU] key ▶ Select [USB Audio]

Viewing in Full Screen

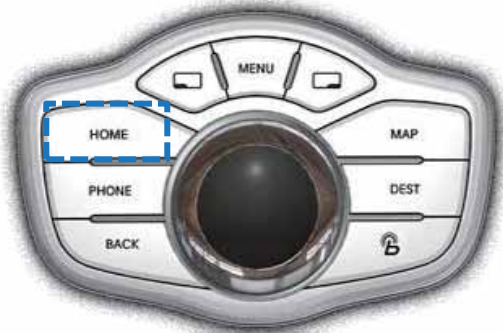Press the [Soft1] and select [Full Screen] to view the USB in full screen.

Information
•For more information on Sound and Display settings, refer to the Info/Setup section.

Starting Mode (Image Mode)

Press the [HOME] button ▶ Select [USB]

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

Information
• If the USB is not connected, then the USB button will be disabled.
• If a previously played USB is reconnected, then the image after the most recently played image is played. However, if a different USB is connected or the file information within the USB was changed, then the USB file order information is deleted and will start playing from the first image within the USB.

Selecting USB Image Files

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next file.

Searching USB Image Files

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for files.

During search, the image name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected image and display the basic display info.

From the searched files, once the desired file name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding image.

Using the Menu Buttons

Press the [MENU] key to use the Zoom In/Out, Rotate, Slideshow, Copy, Sound Settings and Display Settings options. This menu is also used to move to other USB play modes.

Zoom In/Out

Press the [MENU] key ▶ Select [Zoom In/Out]

Turn the [○] in Ω direction to enlarge or reduce the image size. The scale can be changed to 1/4, 1/2, 1x, 2x, and 4x.

Information
• Press the [○] to restore the original image size.
• When images are not all displayed on the screen, pushing the [○] in up/down/left/right directions will display other images.

Rotate

Press the [MENU] key ▶ Select [Rotate]

Each time the [○] is rotated, the image is rotated from 0 → 90 → 180 → 270 degrees.

Information
• Press the [○] to restore the original image size.

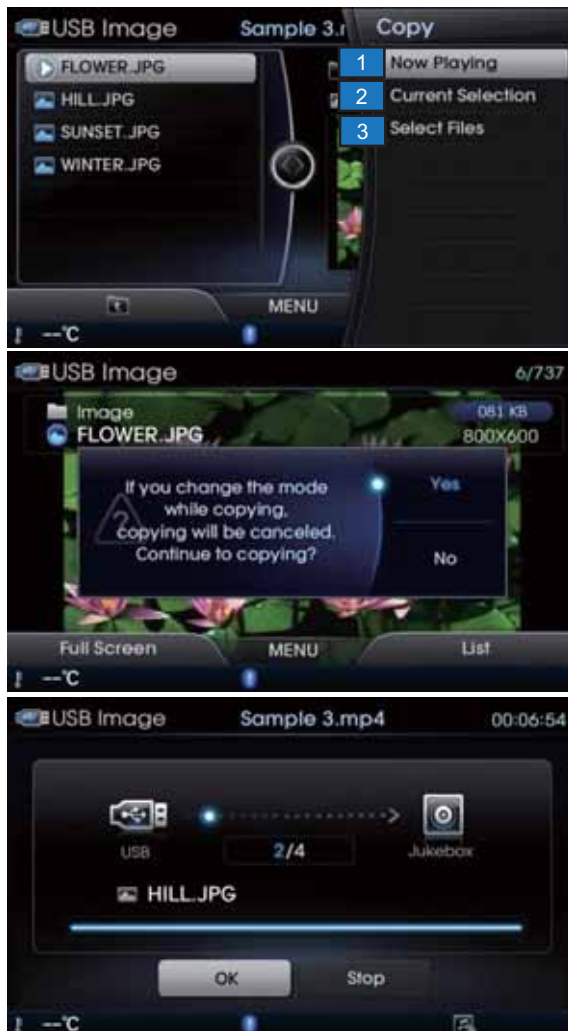---

Slideshow Setting

Press the [MENU] key ▶ Select [Slideshow]

Image slideshow intervals can be set at [5secs], [10secs], [20secs], [30secs] intervals.

Copy to Jukebox

Press the [MENU] key ▶ Select [Copy]
▶ Set copy options

This option is used to copy image files within the USB to the JUKEBOX

Name	Description
1. Now Playing	Copy currently playing file
2. Current Selection	Copy by selecting desired files from list
3. Select Files	Select files you want to copy

Information
•Copying will be canceled if you move to a different mode while copying is in progress.

Move to the USB Audio Mode

Press the [MENU] key ▶ Select [USB Image]

Move to the USB Video Mode

Press the [MENU] key ▶ Select [USB Audio]

Viewing in Full Screen

Press the [Soft1] and select [Full Screen] to view the file in full screen.

Information
•If there are no operations for 10 seconds, the menu will automatically disappear.
• Press the [MENU] key or [○] to display the menus again.
•For more information on Sound and Display settings, refer to the Info/Setup section.

Using iPod Devices

iPod is a registered trademark of Apple Inc. iPod mode will not operate if the connected iPod cannot be recognized due to operation of unsupported versions that do not support related protocols, iPod abnormalities, or iPod device defects.

Supported iPod devices

Device / Generation	First	Second	Third	Fourth	Fifth	Sixth
iPod classic	O	O	Not Released			
iPod nano	O	O	O	O	O	O
iPod mini	Not Supported					
iPod shuffle	Not Supported					
iPod touch	O	O	O	O	Not Released	
iPhone	Not Released		O	O	Not Released	
iPad	O	O	Not Released			

Information
 • Some iPods with unsupported communication protocols may not properly operate in the Audio Video Navigation system.

 • For fifth generation iPod Nano devices, the iPod may not be recognized when the battery level is low. Please charge the iPod for use.

 • Search/play orders shown within the iPod device may differ with the orders shown within the Audio Video Navigation 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)

 • For some iPod Touch and iPhone devices, connecting Bluetooth® while the iPod is operating may result in discontinued iPod sound. When such devices with Bluetooth® support is connected, this problem occurs as the sound source is changed from the Dock Connector (USB connector cable) to Bluebird (Audio Video Navigation Bluetooth® Module).

 • To listen to the iPod sound, re-connect the USB cable or exit then re-enter iPod mode.

Information
 • In order to use the iPod while operating the keys, you must use a dedicated iPod cable. (the cable that is supplied when purchasing iPod/iPhone products)
 ※ During ACC ON state, connecting the iPod through the iPod cable (the cable that is supplied when purchasing iPod/iPhone products), will charge the iPod through the head unit.

 • When connecting with the iPod cable, make sure to fully insert the jack to prevent communication interference. If the iPod is connected to the vehicle while it is playing, a high pitch tone may sound for about 1~2 seconds immediately after connection. If possible, connect the iPod to the vehicle with the iPod stopped/paused.

 • Within iPhones, streaming audio and iPod control may occasionally conflict. If problems persist, remove the iPhone and connect again.

 • Some iPod versions may not sync with the system. then the system may not properly restore the previously operated mode. (For iPads, battery charging is not supported.)

Part 2. AV (iPod)

Search Steps
(may differ depending on the type of iPod device.)

	1 Step	2 Step	3 Step	4 Step	5 Step
Playlist	Playlist	Play List name (category is same as iPod)			
Artist	Artist	Artist Name	Album Name	Song Name	
Album	Album	Album Name	Song Name		
Genre	Genre	Genre Name	Artist Name	Album Name	Song Name
Song	Song	Song Name			
Composer	Composer	Composer Name	Album Name	Song Name	

Part 2. AV (iPod)

Basic Mode Screen

| Name	Description
1. Mode	Displays currently operating mode
2. Track Index	Shows the current file/total files within the iPod
3. Play File Info	Displays File Name/Album/Artist/Genre
4. Control Panel	Enables use of play/pause/select/search features When turned in Ω directions : Moves to previous/next files When pushed in ← or → directions: : Plays previous/next file When pressed :Plays or pauses
5. Play Time	Displays the current play time and total play time
6. File Info	Shows file information
7. MENU	Moves to Shuffle/Repeat/Auto Playlist/Sound Setting/Display Setting and other modes
8. List	Moves to the track list screen
9. Shuffle	Plays iPod tracks in random order
10. Repeat	Repeats the current track or entire tracks
11. Auto Playlist	Moves to list screen showing current song and similar songs
12. Sound Settings	Moves to the sound setting screen
13. Display Settings	Moves to the display setting screen

Starting Mode

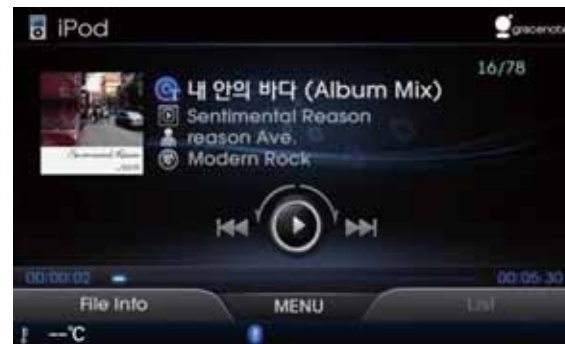Press the [HOME] button ▶ Select [iPod]
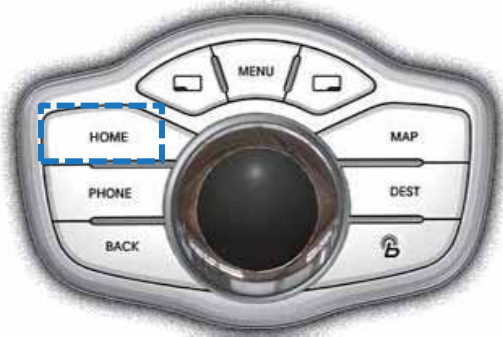
Once an iPod is connected, iPod mode will operate automatically.

> ### NOTICE
> • Some iPods with unsupported communication protocols may not properly operate in the Audio Video Navigation system.

Playing iPod

Once an iPod is connected, the iPod will automatically begin playing. Pressing the [○] again will pause the iPod.

Selecting iPod File

While playing ▶ Shortly push the [○] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next song.
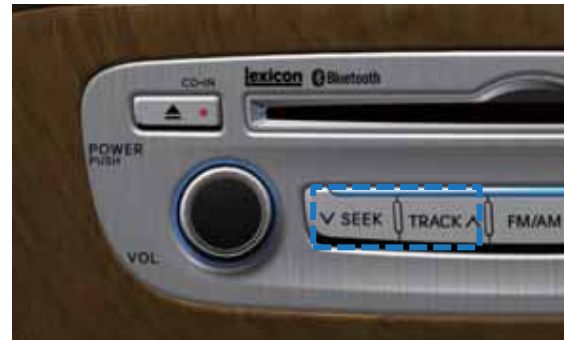
Fast-forwarding or Rewinding iPod Files

While playing ▶ Push and hold the [○] in ← or → direction (under 0.8 seconds) or press and hold the [SEEK]TRACK] key to fast-forward/rewind the current song.

While the [○] or [SEEK] [TRACK] key is being operated, the songs will rewind or fast-forward at 20x speed. Once released, the song will begin playing at normal speed.

Searching iPod Files

Turn the [○] or [TUNE/FILE] knob in Ω directions to search for songs.

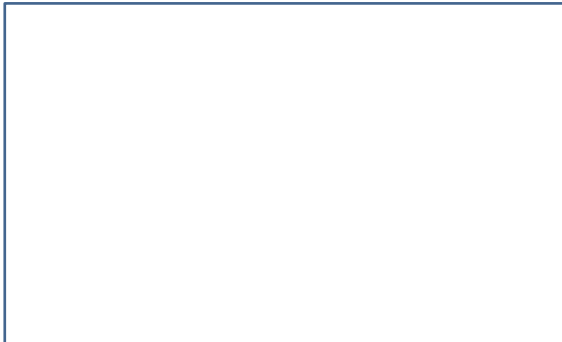During search, the song name is displayed in blue. Press the [○] or [TUNE/FILE] knob to play the selected song and display the basic display info.

From the searched songs, once the desired song name is displayed, press the [○] or [TUNE/FILE] knob to play the corresponding song.

Searching iPod List

Press the [List] button to display the initial iPod menu screen.

When searching iPod, it is possible to search by Play list, artist, album, song, genre, composer, audiobook, and Podcast.

Information
• If the search mode is accessed while playing a song, the most recently searched step will become displayed.
• Upon initial connection, the search steps may differ depending on the type of iPod device.
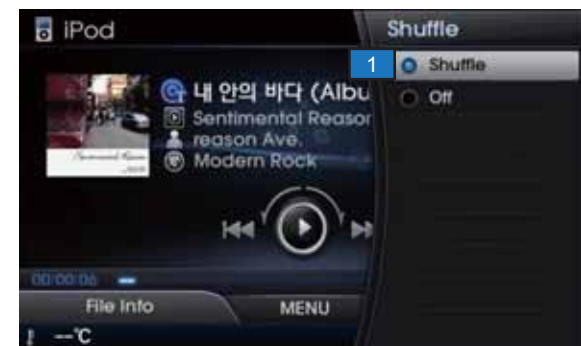
Using the Menu Buttons

Press the [MENU] key to use the Shuffle, Repeat, Auto Playlist, Sound Settings and Display Settings.

Shuffle

Press the [MENU] key ▶ Select [Shuffle] ▶ Select [Shuffle] or [Shuffle Album]

Name	Description
1. Shuffle	Plays songs within play list in random order

Information
•Press [Off] to turn the Shuffle feature off.

Name	Description
1. Repeat	Repeats play of currently playing file.

Information
•Press [Off] to turn the Repeat feature off.

File Info/Play Info

Press the [LHT] to select Play Info to view file information, such as title, album, artist, genre, and composer.

To return to the previous screen, select [Play Info].

Information
• No information are shown for MP3 files without file information.
• For more information on Sound and Display settings, refer to the Info/Setup section.

Repeat

Press the [MENU] key ▶ Select [Repeat] ▶ Select [Repeat]
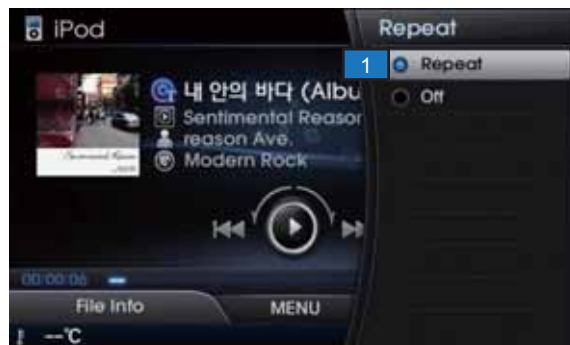
The current song or the all files within the folder can be repeated.

Auto Playlist

Press the [MENU] key ▶ Select [Auto Playlist]

List of songs similar with the current song is displayed. The list can be used to select desired songs.

Starting Mode

Press the [HOME] button ▶ Select [AUX]
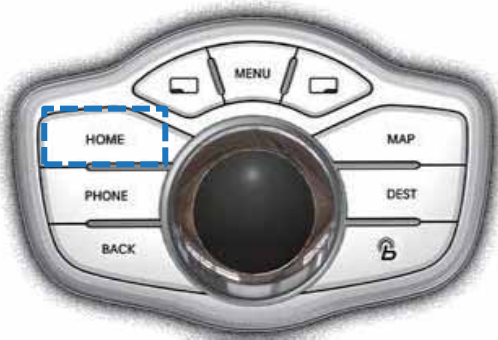
Information
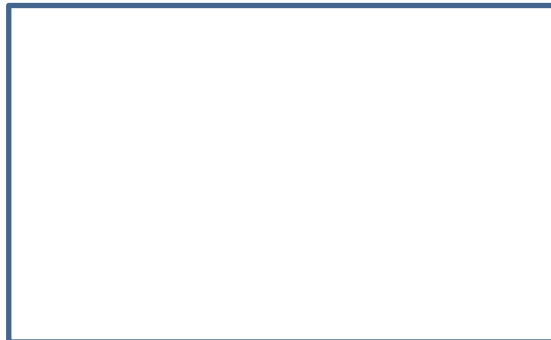• If an external device connector is connected with the AUX terminal, then AUX mode will automatically operate. Once the connector is disconnected, the previous mode will be restored.

• AUX mode can be used only when an external audio/video player (camcorder, car VCR, etc.) has been connected.

• The AUX volume can be controlled separately from other AV modes.

Information
• Connecting a connector jack to the AUX terminal without an external device will convert the system to AUX mode, but only output noise. When an external device is not being used, also remove the connector jack.

• When the external device power is connected to the power jack, playing the external device may output noise. In such cases, disconnect the power connection before use.

External AUDIO and VIDEO players (Camcorders, car VCR, etc.) can be played through a dedicated cable. The position of the AUX jack is at the top of the gear box located between the driver and passenger seats.

Information
• The color saturation option is not supported when using the PAL color system within this device.

About Using Bluetooth® Audio

• Bluetooth® Audio Mode can be used only when a Bluetooth® phone has been connected.

• While Bluetooth® Audio is playing, if the Bluetooth® phone is connected, then the music will also stop.

• Bluetooth® streaming audio may not be supported in some mobile phones.

•If you switch to the Bluetooth mode screen while playing streaming audio, then the streaming audio will stop and the previous AV mode will be restored.

Basic Mode Screen
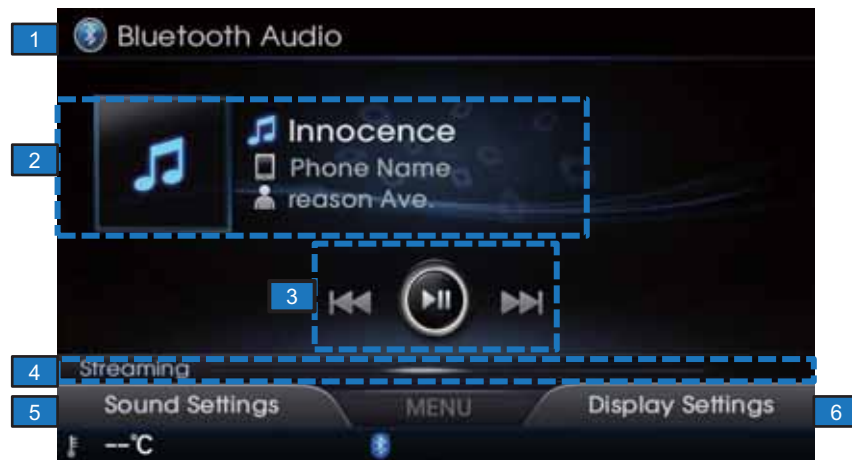
Name	Description
1. Mode	Displays currently playing mode
2. Play Info	Displays mobile phone name/title/artist
3. Control Panel	Enables use of Bluetooth audio play, pause, select and search features When pushed in ← or → directions: : Plays previous/next song When pressed :Plays or pauses
4. Connections	Displays the Connections screen
5. Sound Settings	Displays the sound setting screen
6. Display Settings	Displays the display setting screen

Information
• The title/artist info may not be supported in some mobile phones. When not supported, "No Title/No Artist" will be displayed.
• The play/pause feature may operate differently depending on the mobile phone.

Starting Mode

Press the [HOME] button ▶ Select [Bluetooth Audio]

Information
• If the Bluetooth® device is not connected, then the [Bluetooth Audio] button will be disabled.

Playing Bluetooth Audio

Press the [▶ ‖] button to begin playing Bluetooth Audio. Pressing the [◯] again will pause the Bluetooth Audio.

Selecting Bluetooth Audio

While playing ▶ Shortly push the [◯] in ← or → direction (under 0.8 seconds) or shortly press the [SEEK]TRACK] key to select the previous/next song.

Information
• The title/artist info may not be supported in some mobile phones.

• For more information on Sound and Display settings, refer to the Info/Setup section.

3 Navigation

- Before Use
- Starting Navigation
- Destination Search
- Route Menu
- NAVI Setup
- GPS Information

Before Use

Safety Cautions

• For safety, some functions will be inactive while the vehicle is in motion. Buttons that cannot be operated will be inactive.

• Roads names and POI information may not always be completely updated. Some places may not include up-to-date information.

• The route displayed for destination guidance is a reference that will take you to the vicinity of your destination.

• The navigation system uses GPS information, various sensors, road map data, and other related information to display the current position. Errors may occur if the satellite is transmitting inaccurate signals or if which can only two or less satellite signals can be received. Errors which occur in such conditions cannot be corrected.

• The current position may become displayed on at a place somewhat different from your actual location. The car position mark may differ from the actual location due to the state of the GPS satellites or the vehicle (driving location and conditions). In addition, the car position mark can become deleted from the actual position when driving on roads different from the map data, such as newly constructed roads. • Even if the car position mark on the map is different, map matching or GPS info are used to automatically update the current position. (In such cases, up to several minutes may be required.)

Operating the Navigation

• When a button function is operating, the color of the selected button will be displayed differently.
• To return to the previous screen, press the [Back] button.
• Press the [Back] button to cancel the functions that can be operated on the current screen.
 (Some functions may not be canceled.)

> *Information*
> • Buttons that cannot be operated will be inactive.

Part 3. Navigation

About the Map

Some roads, site names, facility information and fare rates may have changed after map data development and may differ with actual road conditions.

About Map Scale

If [100m] is displayed on the left side of the map, this represents a map scale of 1/10,000.

Display	Scale	Display	Scale
150m	1 /15,000	4ml	1 /4ml
300m	1 /30,000	8ml	1 /8ml
700m	1 /70,000	16ml	1 /16ml
0.25ml	1 /0.25ml	32ml	1 /32ml
0.5ml	1 /0.5ml	64ml	1 /64ml
1ml	1 /1ml	130ml	1 /130ml
2ml	1 /2ml	250ml	1 /250ml

Information
• Turn the [◯] left/right to change the scale.

About Map Icons

Icons displayed on the map may be different with actual conditions. Also, display of multiple icons may be displayed under one mark.

About Map DB

Unlicensed copying of the map in any form, in full or in part, is strictly prohibited.

About Map Updates

For up-to-date maps and software, visit the site (blu.hyundai.com) and download related files to an SD card. To learn more, refer to the 'System Update' section of this user's manual.

About Voice Guidance

During destination guidance, voice guidance will be provided when reaching an intersection or you are nearby the destination.

Voice guidance is provided in the following situations.

Example of voice guidance during destination guidance

-In front of an intersection

Turn right in about 700m. Right turn ahead.

-Upon entering a toll road

Right turn ahead. You are entering a motorway. Toll gate ahead.

※ Please use voice guidance only as a reference to assist in your driving.

Example of voice guidance when arriving at the destination

-In front of the destination

You are near your destination. Voice guidance will end.

Information
• The above voice guidance examples are normal cases. However, the actual voice guidance may differ depending on the road type.
• If the car position is not accurately measured, then voice guidance may not be given, or may be given later or improperly.
• It is possible to adjust the Navigation guidance volume.

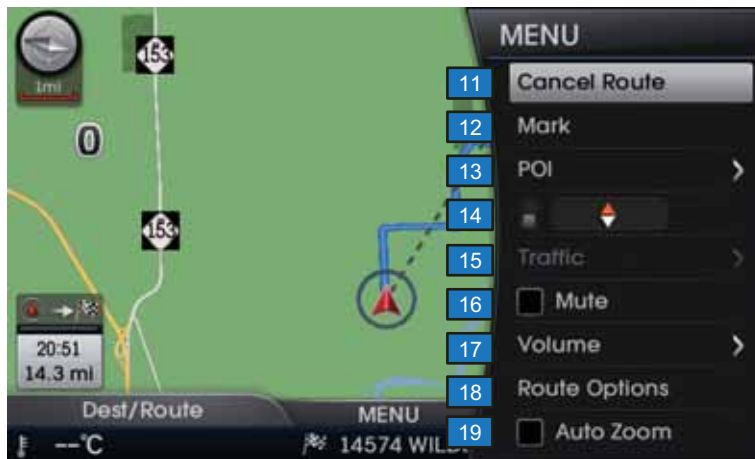## Guidance when using other modes

Voice guidance will continue even when converting from the navigation screen to a different mode screen.

Information
Even when voice guidance has been muted, destination guidance will continued to be provided.
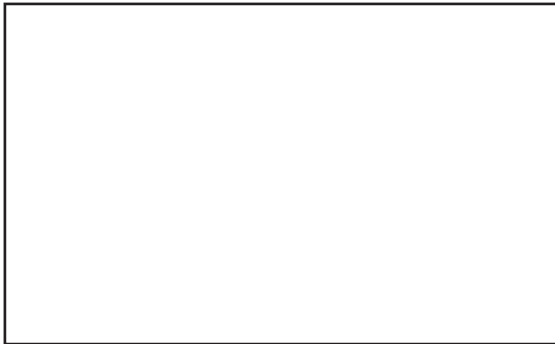
Starting Navigation

Name	Details
1. Car direction and Scale	Map direction and GPS reception state and scale display
2. Lane Info	Recommended lanes taking the following intersection and expected route into consideration
3. Preliminary Guidance	Displays direction, ETA, remaining time and distance from current position to the destination
4. Current speed and camera info	Displays current vehicle speed and camera information
5. ETA and Remaining distance	Displays the estimated arrival time and remaining distance to the destination
6. Car Position Mark	Displays the current vehicle position and direction
7. Remaining Distance	Remaining distance until next turn
8. Navi Menu	Displays the Navi menu screen
9. MENU	Displays the MENU list
10. Right screen mode	Changes the right Navi screen mode
11. Cancel Route	Cancels the currently set route
12. Mark	Add my places and user cameras to the current position
13. POI	Displays POI list
14. Map Mode	Sets map display mode
15. Traffic	Displays traffic information on map
16. Mute	Mute navi voice guidance
17. Volume	Controls navi voice guidance volume
18. Route Options	Used to recalculate route to the destination
19. Auto Zoom	Sets whether to use the Auto Zoom feature while the vehicle is in motion

Initial Screen

Press the [Agree] button to display the most recently used mode

If AV mode is used with the navigation turned on, navigation guidance will be provided in the background. If you turn the ignition on, then the most recently played mode will restart.

Information
• If you turn the vehicle ignition is turned on, the User Warning screen will always be displayed. Make sure to carefully read the page as it contains important information related to system operations while driving.

Displaying the Current Position
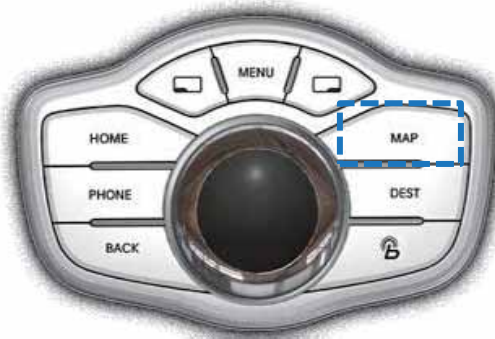
Press the [MAP] key to display the map of the current position and the neighboring area.

Information
• When riding in a new car or after replacing the battery terminal, the car position mark may appear at a location different from your actual current position.

• Even if the car position mark on the map is different, map matching or GPS info are used to automatically update the current position.

Mark

Press the [MAP] key ▶ Press [MENU] ▶ [Mark]
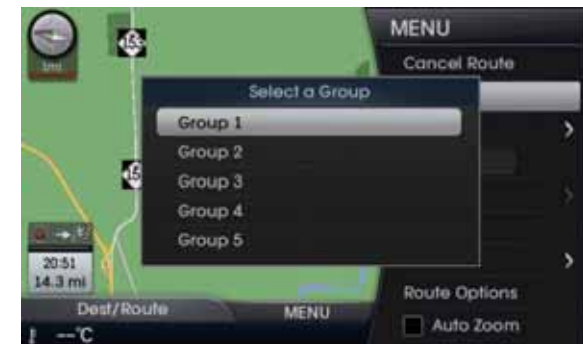
This feature is used to save the current position or the scrolled position as a My Place.
To save the position, press the [○] after selecting the desired group.

Information
• My Places are saved without distinction for the driving state or the scrolled state.

• To edit or delete registered mark, refer to the 'My places' section.
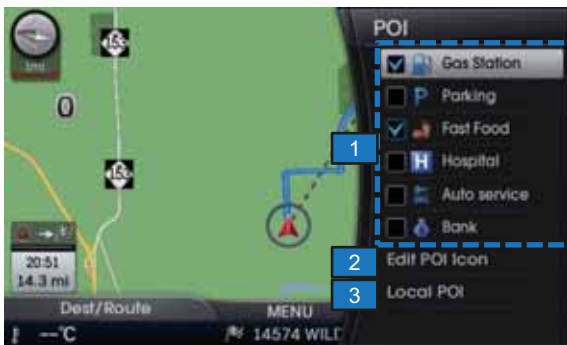
POI

Press the [MAP] key ▶ Press [MENU] ▶ Press [POI]

Within the screen when the POI menus are displayed, pressing one of the 6 facility icon buttons will display the corresponding facilities.

Name	Details
1. POI Icons	Sets POI facilities
2. Edit POI Icon	Sets the 6 POI icons to the desired genre through user editing
3. Local POI	Moves to Search by POI screen

Map Settings

Press the [MAP] key ▶ Press [MENU]

Map Mode
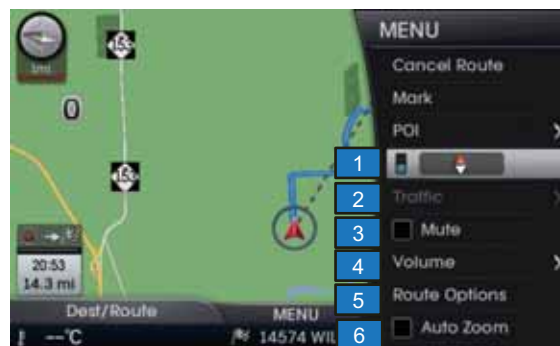
Name	Details
1. Heading Up/North Up	Displays map in Vehicle Traveling Direction(Heading Up) or the North-Up direction
2. Traffic	Provides traffic information on the screen or by voice
3. Mute	Mute route guidance sound
4. Volume	Adjust outgoing volume of route guidance
5. Route Option	Displays a menu to change route settings and conditions
6. Auto Zoom	Sets whether to automatically adjust the map scale when the vehicle is in motion

Sets map related options, such as map direction, traffic information and sound/volume adjustment.

Information
• If the map scale is above 16mi, the map display mode will be changed automatically to 2D North-Up.

Destination Search

Name	Details
1. Address Search	Searches by address
2. Search by POI	POI searches for current position/scroll position/destination/region
3. Previous Destinations	Destination guidance for recently set locations
4. Previous Start Position	Destination guidance for recently set start position
5. Previous Searches	Destination guidance for recently searched locations
6. Emergency	Used to make emergency related searches
7. My Places	Destination guidance for recently added My Places
8. Quick	Used to edit Quick menu
9. Favorites	Displays Home/Office/Favorites list
10. Intersection	Used to search destinations by entering the intersection name
11. Phone Number	• Destination search by entering the phone number • POI search by entering the phone number
12. Coordinates	Destination search by entering latitude and longitude
13. Previous Map	Moves to previous map screen

Quick

Press the [DEST] key ▶ Press [Quick]
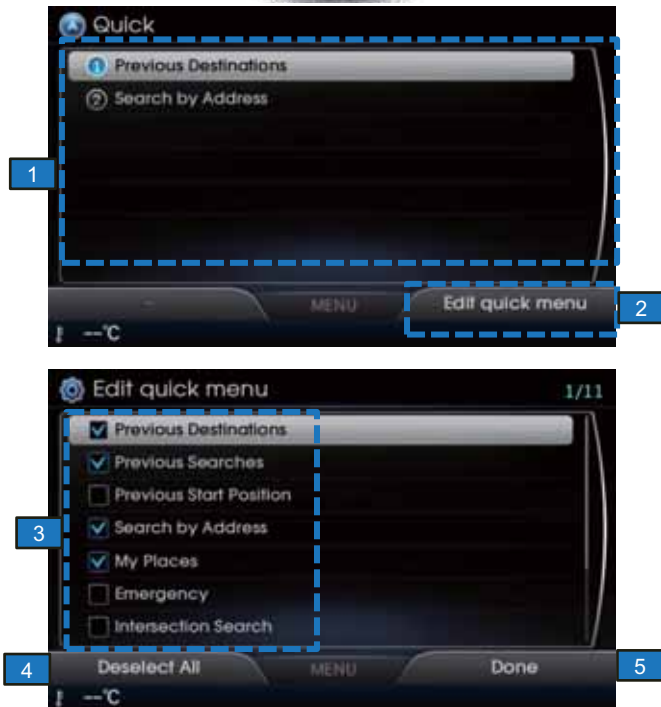
These menus allow you to set frequently used menu to Quick List.
To add or delete Quick list, press the [Edit Quick Menu] button.

Name	Details
1. Quick Lists	Registered Quick menu lists
2. Edit Quick Menu	Add and delete Quick menu lists
3. Menu Lists	Editable Quick menu lists
4. Deselect All	Unmark all selected Quick menu
5. Done	Finishes editing Quick menu

Information
• Among 11 quick menus, Up to 7 quick menu can be added to Quick menu.

Favorites

Press the [DEST] key ▶ Press [Favorites]

This feature is used to register frequently visited positions to favorites.
Press the [Edit Favorite Place] to add or delete favorites.

Name	Details
1. Favorites lists	Registered Favorites lists
2. Edit Favorites	Adds edit, and deletes Favorites
3. Menu Lists	Editable Quick Menu lists

Information
• Up to 7 positions can be added to Favorites.

Address Search

Press the [DEST] key ▶ Press [Search by Address]

This search feature is used to search destinations by addresses through street/ tower/city/country names..

Name	Details
1. Street	Destination search by entering the street address
2. Select City	Destination search by entering the city name
3. State	Selects state

POI Search

Press the [DEST] key ▶ Press [Search by POI] ▶ Select the desired Category
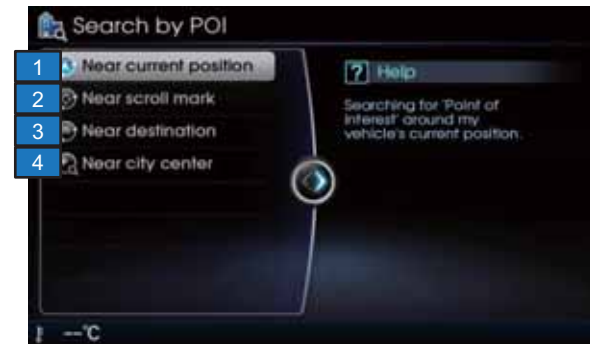
This search feature is used to search destinations by criteria (Near current position, Near scroll mark, Near destination)

| Name	Details
1. Near Current Position	Searches POI around the vehicle's current position
2. Near Scroll Mark	searches facilities based on the current scrolled position
3. Near Destination	searches facilities based on the location of the destination
4. Near city centre	searches facilities based on the selected location
5. Category	Selects POI categories
6. POI Mark	Selects POI marks

Previous Destinations

Press the [DEST] key ▶ Press [Previous Destinations]
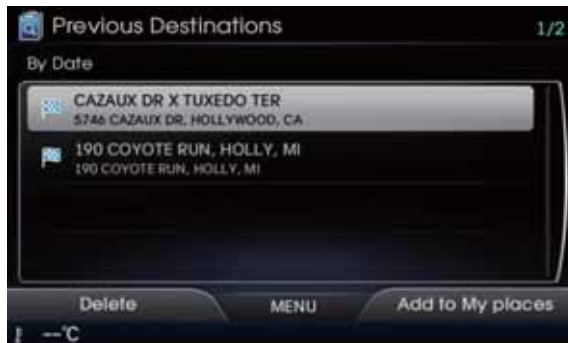
These search features allow you to search previous routes and set as destinations or waypoint.

Previous Start Position

Press the [DEST] key ▶ Press [Previous Start Position]

These search features allow you to search previous start points and set as destinations or waypoint..
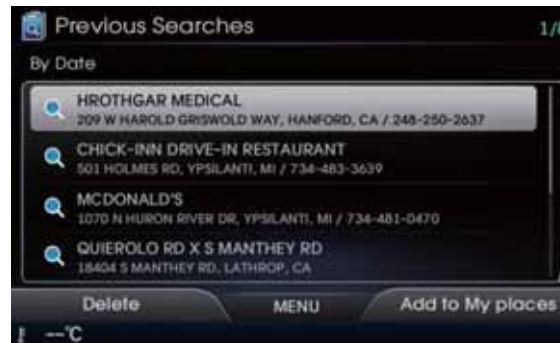
Previous Searches

Press the [DEST] key ▶ Press [Previous Searches]

These search features allow you to search previous searches and set as destinations or waypoint.

Emergency

Press the [DEST] key ▶ Press [Emergency]
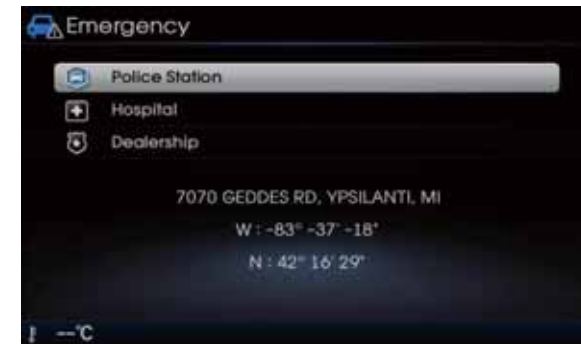
This menu is used to search nearby police stations, hospitals, dealer shops.

My Places

Press the [DEST] key ▶ Press [My Places]
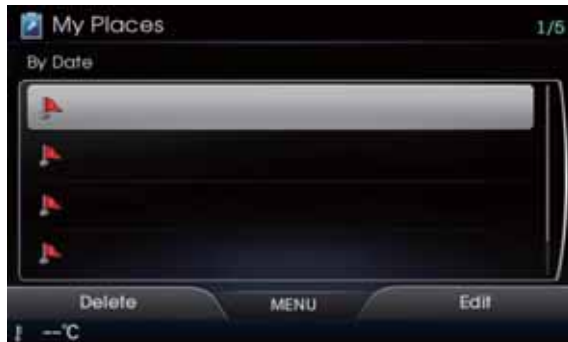
This search feature is used to search destinations by selecting previously saved My Places from the list to set as Destinations.

Name	Details
1. Sort	Sort POIs and locations by name/symbol/date
2. Add	Adds a new place to My Place group
3. Edit	Edits selected place
4. Delete	Deletes selected place
5. Delete All	Deletes all registered places
6. Edit group name	Edits My Places group name

Intersection

Press the [DEST] key ▶ Press [Intersection]

This search feature is used to search destinations by streets and intersections through road/city/country.

Phone Number

Press the [DEST] key ▶ Press [Phone Number]

This feature is used to search the locations of POIs by entering the phone number of the facility you wish to search.
When entering the phone number, the area code must be included.

Information
• The telephone number and location may not the same for some POIs. In addition, the following types of facilities may be more frequently located in other locations.

• Locations of department stores, museums, and amusement parks may somewhat differ from the set destination. Check the exact address when trying to reach such destinations.

▪ Within general information newspapers, there are cases when phone numbers of concert halls list the numbers of managing companies. In such cases, searches will be to the managing company.

• The telephone number and addresses may change at any time.

Coordinates

Press the [DEST] key ▶ Press [Coordinates]

This feature is used to search the locations by entering longitude and latitude.

Information
• When entering one digit number, 0(zero) should be entered first.

Previous Map

Press the [DEST] key ▶ Press [Previous Map]

The previously displayed position is displayed by scrolling the map.

Name	Details
1. Set as Destination	Sets the facility or position where the cursor is positioned as the new destination
2. Add Waypoint	Sets the facility or position where the cursor is positioned as a waypoint
3. Mark	Marks the facility or position where the cursor is positioned
4. POI	Sets destination by searching POI
5. Call	Makeing a phone call to the facility or position where the cursor is positioned

Set as Destination

Press the [DEST] key ▶ Press [Search by Address] ▶ Search destination and press [Set as Destination]

After searching for the destination according to the map search method, select the desired destination from the list.
(For more information on destination search methods, refer to the Destination Search section.)

After verifying the location of the searched position, select the [Set as Destination] button to calculate the route. The Route Overview or Multipath screen will be the displayed.

<Alternative Route>

<Route Overview>
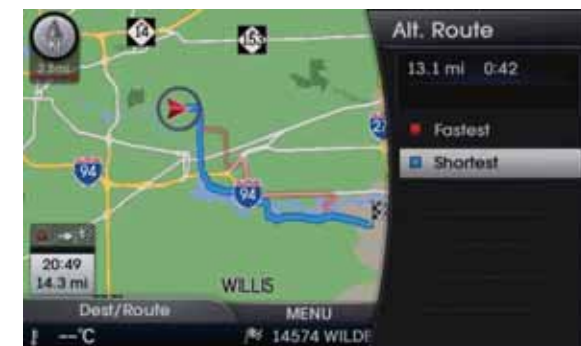
Within the Route Overview or Alternative Route screen, press the [Map] key or the [Start Guidance] button to begin guidance. To add a destination, press the [Add Waypoint] button.

Simulation

Once route calculation is complete, Press the [Simulation] button to view a demo of the route guidance.

During Simulation, pressing the [Map] key will end the Simulation and display the current map position. If you start driving the vehicle while viewing the route Simulation, demo will end and route guidance will start.

Add Waypoint

Press the [MENU] Key ▶ Press [Add Waypoint]

Searching for the destination according to the map search method after searching for waypoints within the map screen, press the [Add Waypoint] key to add the waypoint to the current route.

Route Options

Press the [MENU] Key ▶ Press [Route Options]
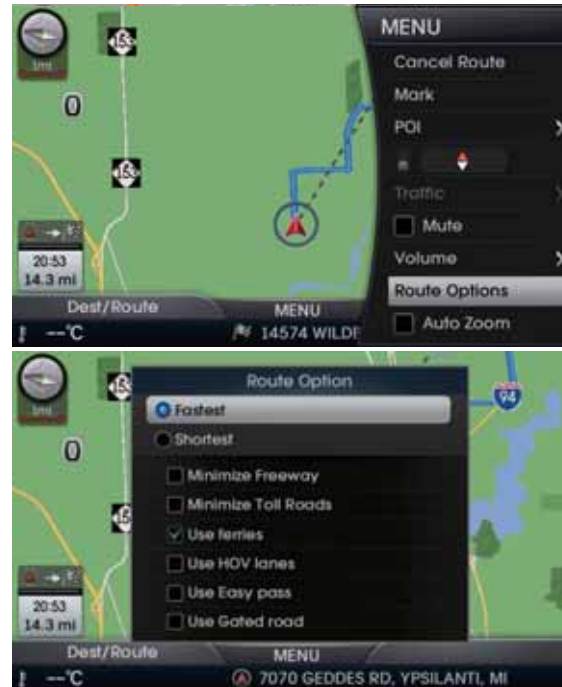
Selecting the [Route Options] will display a pop up that allows you to change route settings and conditions. Once the settings are changed, the route will be recalculated by reflecting the changes.

> **_Information_**
> • For more information on Fastest, Shortest, and other calculating options, refer to the "Route Option" section.

Cancel Route

Press the [MENU] Key ▶ Press [Cancel Route] ▶ Press [Yes]

Cancels and deletes the currently designated destination.

Route Guidance

The preliminary guidance, intersection guidance, turn list guidance, motorway mode screen are displayed depending on the current road condition.

Within the destination guidance map screen, if the current position is on route, then intersection guidance will be provided when nearby an intersection. In addition, when nearby an intersection, the intersection zoom screen is displayed.

Information
• Within all guidance mode screens, selecting the button at the bottom right side of the screen will change the route guidance mode.

• Each time the button is selected, the guidance mode will change in order of single screen → motorway guidance → turn list mode.

• Motorway and intersection zoom guidance are displayed on when receiving guidance at corresponding roads.

Preliminary Guidance Mode

At the top right side of the screen, the first and second turn info, remaining distance, direction and other information are displayed.

Intersection Zoom Mode

This mode provides detailed guidance nearby intersections before an expected turn. This mode will start displaying before the intersection.

Turn List Mode

This mode shows turn information on the route.

Motorway Mode

<All>

<Summary>

<Rest Area>

Upon entering a motorway during route guidance, the motorway mode will automatically be displayed. This mode is displayed when driving on an expected route and display mainly motorway related POIs.

Selecting [All], [Summary], [Rest Area] at the bottom right side of the screen will change the route guidance mode.
Press the [○] left/right to switch display mode and check POI info list.

> *Information*
> • Some POIs may not be displayed if seven(7) or more POIs exist within the position.

Route Menu

Name	Details
1. Cancel Route	Cancels the currently set route
2. Route Overview	View route overview for the route to the current destination
3. Route Option	Route calculation features that include various route calculation options and settings
4. Edit Waypoint	Add/delete/change order of destinations/waypoints
5. Destination Info	Shows the estimated arrival time and remaining distance to the destination
6. Route Info	Detailed info on the route to the current destination and provides detour routing options
7. Avoid Area	Edit route by adding Avoid Areas/Editing Avoid Areas and Deleting Avoid Areas

Cancel Route

Press the [NAVI] key ▶ Press [Route] ▶ Press [Cancel Route] ▶ Press [Yes]

Guidance to the current route is canceled.

Route Overview

[Press the [NAVI] key ▶ Press [Route] ▶ Press [Route Overview]

Name	Details
1. Start Guidance	Starts route guidance to the destination
2. Edit Waypoint	Add/delete/change order of destinations/waypoints
3. Route Info/Detour	Route guidance information to the set destination and calculate detours
4. Alternative Route	Displays various alternative route options to select the desired route calculation method
5. Simulation	Route simulation to the set destination

Within the Route Overview screen, pressing the [Alt. Route] button or setting 'Calculate Alternative Routes upon Calculation' within Navigation Setup will display alternative routes on the screen.
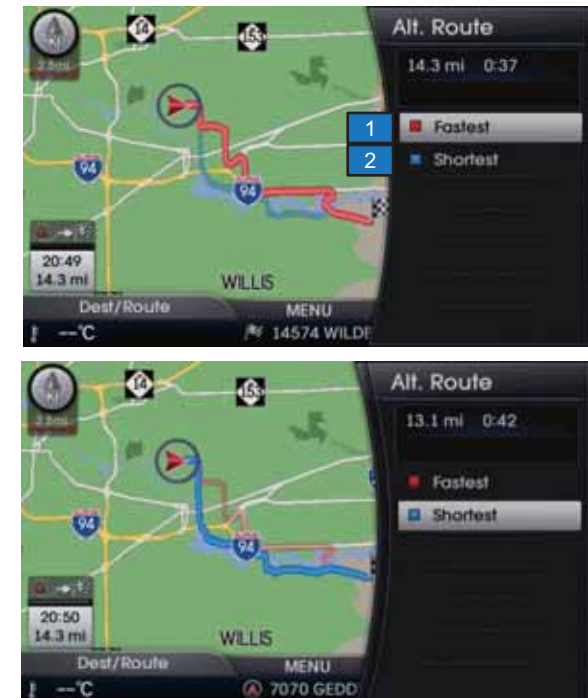
Name	Details
1. Fastest	Recommended route that reflects distance and traffic conditions
2. Shortest	The shortest distance from start point to destination

Route Option

Press the [NAVI] key ▶ Press [Route] ▶ Press [Route Options]

Fastest

This option provides calculates routes by reflecting the average speed of streets and roads to the destination.

Shortest

This option provides guidance by calculating the shortest distance route to the destination.

Advanced Settings

Advanced settings allow you to set whether to include motorways, toll roads or ferries within route calculation.

Name	Details
1. Minimise Motorway	Route calculation with minimal use of motorways
2. Minimise Toll Roads	Route calculation with minimal use of toll roads
3. Use Ferries	Route calculation by including/not including ferries
4. Use HOV lanes	Route calculation by including use of HOV lanes
5. Use Easy pass	Route calculation by including use of Easy pass
6. Use Gated Roads	Route calculation by including use of Gated roads

Edit Waypoint

Press the [NAVI] key ▶ Press [Route] ▶ Press [Edit Waypoint]

This feature displays the start point, waypoints and thee destination in list format and is used to edit corresponding positions or edit the order of the destinations included within the route.

Destination Info

Press the [NAVI] key ▶ Press [Route] ▶ Press [Destination Info]

Shows the estimated arrival time, remaining distance, waypoint information, and map of the destination.

Route Info

Press the [NAVI] key ▶ Press [Route] ▶ Press [Route Info]

This feature is used to check the key routes and re-set the route by setting detours for a fixed distance from the current position

Information
• If you press the [Detour] button, you can set an area to detour in 1/2/5/10km units for route calculation.

Avoid Area

Press the [NAVI] key ▶ Press [Route] ▶
Press [Avoid Area]
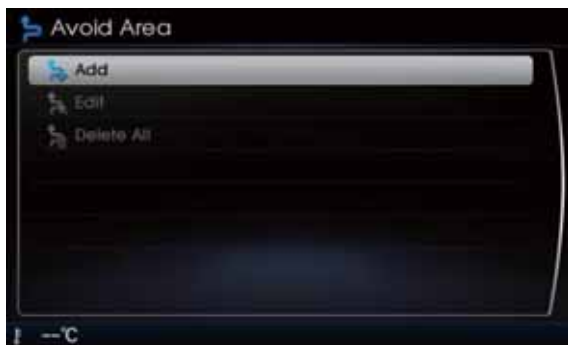
Name	Details
1. Edit Name	Edit name of Avoid Area
2. Edit	Edit size and area of Avoid Area
3. Delete	Delete set Avoid Area
4. Avoid	Avoid the set area
5. Done	Finalize setting

It is possible to add/edit/delete avoid areas.
Use the [controller] to set the range of the
area you wish to avoid.

NAVI Setup

Name	Details
1. Main	Displays options related to Units display/Estimated time of/Distance and Time to/Fuel Type/Select Voice/Driving Speed/Previous Destination Display/Auto Zoom
2. Display	Displays options related to route indicator line color/map font size/map color and trace features
3. Route Search	Displays route calculation options related to calculating alternative routes and upon route recalculation
4. Guidance	Displays options related to camera alert guidance/driver alert guidance
5. Initialize Settings	Displays options used to initialize settings/initialize saved information

Main

Press the [NAVI] key ▶ Press [NAVI Setup] ▶ Press [Main]

Estimated Time of

This option is used to set the estimated arrival time or the remaining time to the destination.

Fuel Type

This option is used to set the fuel type.

Unit

This option is used to set the unit when displaying the vehicle speed

Distance and Time to

This option is used to set the distance and time to the destination or waypoint

Select a Voice

This option is used to set the navigation voice.

Part 3. Navigation

Driving Speed Setting

This option is used to set the estimated travel speeds within normal roads and motorways.

Auto Zoom
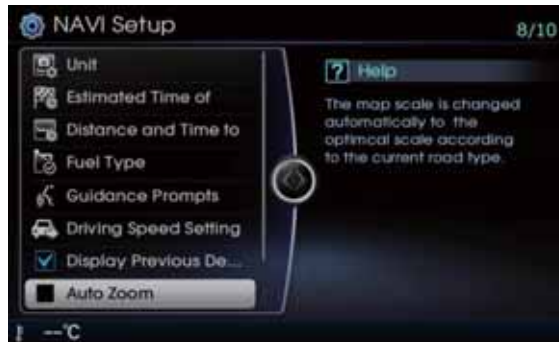
This option is used to set whether to automatically scale the map while driving.

Time restricted road
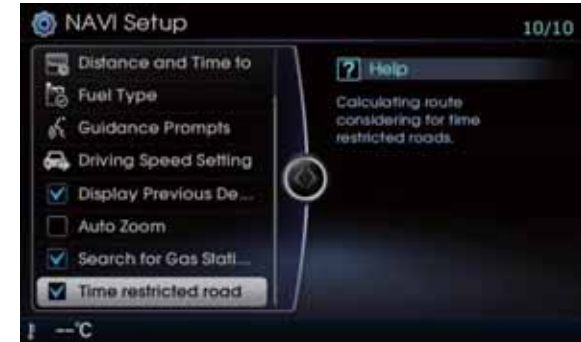
This option is used to calculate routes by considering for times of restricted roads.

Display Previous Destinations
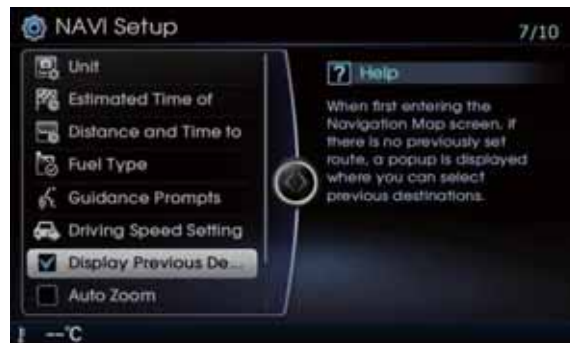
This option is used to set whether to display previous destinations upon starting the Navigation

Search for Gas Stations
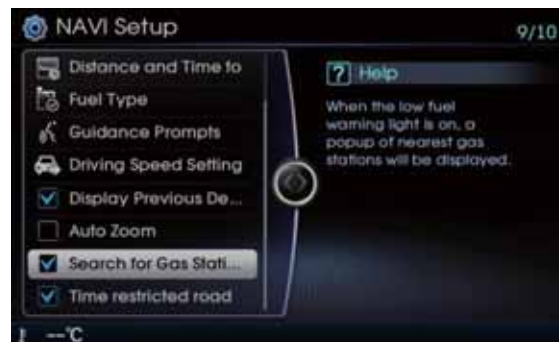
This option is used to set whether to automatically search for gas stations when fuel is low.

Display

Press the [NAVI] key ▶ Press [NAVI Setup] ▶ Press [Display]

Route Indicator Line

This feature is used to set the color of the route indicator line.

Map Font Size

This option is used to set the size of the font shown in the map between 3 levels.

Map Color

The map color can be set according to Day/Night/Auto modes.

Trace

This option is used to set whether to display the trace on the map

Route Search

Press the [NAVI] key ▶ Press [NAVI Setup]
▶ Press [Route Search]

Name	Details
1. Use Alternative Route Search	Search for alternative routes when calculating routes
2. Upon recalculation, display routing options	Sets whether to display routing options upon recalculating routes

Guidance

Press the [NAVI] key ▶ Press [NAVI Setup]
▶ Press [Guidance]

Camera Alert Guidance

This option is used to set whether provide guidance in various conditions.

Distance Setup

고속도로 및 일반도로의 카메라 안내 거리를 설정할 수 있습니다.

Driver Alert Guidance

This option is used to set whether provide guidance in various driving conditions.

Default

Press the [NAVI] key ▶ Press [NAVI Setup] ▶ Press [Default]

Initialize Settings

This option is used to initialize previous set navigation settings back to the default state.

Name	Details
1. Initialize Settings	used to initialize previous set navigation settings back to the default state
2. Memory Points	used to initialize all searched lists, memory points and saved navigation information

Traffic

Press the [NAVI] key ▶ Press [NAVI Setup] ▶ Press [Traffic]

지도상에 교통정보 표시 여부를 설정할 수 있습니다.

GPS Info

About GPS

GPS (Global Positioning System) is a system developed and operated by the United States which determines the current location of the user (longitude · latitude, etc) by generally using 3 or more satellites.
This system is used with related GPS information, various sensors, road map data, and other related information for the purposes of navigation

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Information
• For continued map updates, information collection and surveys are continuously being conducted to check for changes to roads and new road construction. Nonetheless, roads, facilities, and fares are under constant change. Consequently, it is impossible to completely delete any errors, including road updates, names, facilities, and fares. Keep such matters in mind when using GPS.

• In principle, roads with widths less than 3m are not included within the map data. Roads including sections with widths less than 3m may be deleted upon updating the map data

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● When GPS information cannot be used
GPS information may not operate under the following conditions.

- When buildings, tunnels, or other obstructions block satellite signals
- When materials are placed above the GPS antenna and block satellite signals
- When the satellite is not transmitting
- When a digital cellular phone (1.5GHz) is placed near the GPS antenna

● Errors unavoidable due to system characteristics

The navigation system uses GPS information, various sensors, road map data, and other related information to display the current position.
Errors may occur if the satellite is transmitting inaccurate signals or if which can only two or less satellite signals can be received.
Errors which occur in such conditions cannot be corrected.

GPS Info

Press the [MENU] key ▶ Select [GPS Info]

This option is used to display the GPS satellite reception state, car speed and position.

4 Bluetooth

- Before Use
- Pairing and Connecting a Phone
- Starting Mode

Before Use

Before using the Bluetooth Handsfree

What is Bluetooth?

• Bluetooth 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 allows data 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 AV/Navigation system.

• Bluetooth Hands-free may not be supported in some mobile phones. Supported mobile phones can be checked at blu.hyundai.com.

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 the Bluetooth, 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.

Even if the phone supports Bluetooth, the phone will not be found during device searches if the phone has been set to hidden state or the Bluetooth power is turned off. Disable the hidden state or turn on the Bluetooth power prior to searching/connecting with the Head unit.

If Auto Connection is used, the Bluetooth phone is automatically connected when the ignition is turned on, making it unnecessary to have to connect the phone with the head unit every time.

If you do not want automatic connection with your Bluetooth device, turn the Bluetooth power off.

The handsfree call volume and quality may differ depending on the mobile phone.

To set Auto Connection, go to PHONE ▶ Settings ▶ Auto Connection.

The car name can be set at PHONE ▶ Settings ▶ Device Information.

The passkey needed to connect the mobile phone can be verified/changed at PHONE ▶ Settings ▶ Change Passkey.

If the Bluetooth audio does not play, go to PHONE ▶ Settings ▶ Bluetooth Audio. If the feature is set to Off , turn On and try again.

Park the vehicle when connecting the head unit with the mobile phone.

Bluetooth connection may become intermittently disconnected in some mobile phones. Follow these steps to try again.
1. Turn the Bluetooth function within the mobile phone off/on and try again.
2. Turn the mobile phone power Off/On and try again.
3. Completely remove the mobile phone battery, reboot, and then again.
4. Reboot the Audio Video Navigation System and try again.
5. Delete all paired devices, pair and try again.

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 devices cannot be paired when the vehicle is in motion. For your safety, first park the vehicle to pair a Bluetooth device.

Pairing and Connecting a Phone

When no phones have been paired

Press the [PHONE] button ▶ Select [Connections] ▶ Select [Add New] ▶ Enter passkey from the Bluetooth device

When the 'Waiting to Pair' screen is displayed, search for your mobile device and enter the passkey. The default passkey is set to '0000'.

Information
• Press the [Help] button within the pop-up to view the help section with information related to pairing and connecting Bluetooth devices, and using Handsfree related features.
• To learn more about searching from Bluetooth devices and pairing, refer to the user's manual for your Bluetooth device. If the system becomes unstable or the authentication popup is not displayed due to some communication error, please wait or reset the Bluetooth device and try again.

When a phone is already paired

Press the [PHONE] button ▶ Select [Connections] ▶ Select the device from the device list ▶ Select Connect

Select the device you want to connect and press the [Connect] button.

If the phone you want to connect does not exist, press the [Add New] button to pair a new Bluetooth device.

Information
• Bluetooth features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth device.
- Answering and making Bluetooth Handsfree calls
- Menu operation during a call (Switch to Private, Switch to call waiting, Outgoing volume)
- Download Call History
- Download Mobile Contacts
- Download USIM Contacts
- Download contacts to vehicle
- Contacts/ Call History Auto Download
- Bluetooth device auto connection
 Bluetooth Audio Streaming
• It is possible to pair up to five Bluetooth devices to the car system.
• Only one Bluetooth device can be connected at a time.
• Other devices cannot be paired while a Bluetooth device is connected.
• While connecting a Bluetooth device, the cancel operation is not supported.
• Only Bluetooth Handsfree and Bluetooth audio related features are supported.

Information
• Normal operation is possible only within devices that support Handsfree or audio features, such as a Bluetooth mobile phone or a Bluetooth audio device.
• Only one function can be used at a time between the Bluetooth Handsfree and Bluetooth audio. (While playing Bluetooth audio, streaming will end upon entering the Bluetooth phone screen.)
• If a connected Bluetooth device becomes disconnected due to being out of communication range, turning the device OFF, or a Bluetooth communication error, corresponding Bluetooth devices are automatically searched and connected.
• If the system becomes unstable due to communication errors between the vehicle and the Bluetooth device, reset the Bluetooth and try again. Upon resetting Bluetooth, the system is restored to its factory release state.

Pairing Additional Devices

Press the [Add New] button to pair a new Bluetooth device.

For more information on pairing, refer to the 'When no phones have been paired' section.

Information
• 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.

Disconnecting a Device

Select the device you want to disconnect ▶
Press [Disconnect] ▶ Press [Yes]

Deleting Device

Press the [MENU] key ▶ Press [Delete] ▶
Press [Yes]

A device cannot be deleted when it is connected.
To delete a paired device, first disconnect the Bluetooth connection.
Press [Delete All] to delete all paired Bluetooth devices.

Information
•If a paired phone is deleted, the call history and phone book lists will also be deleted.

Basic Mode Screen

<Not on a call>

<During a call>

Name	Description
1. Number Window	Shows entered numbers
2. Send	Calls the number
3. End	Ends the current call
4. Contacts	Displays contacts list screen
5. Dial Pad	Used to enter/delete numbers
6. MENU	Displays menu screen
7. Call Connection Info	Displays the other party's name/number, call time, battery strength/reception level
8. Private	During a handsfree call, this functions is used to switch the call to the mobile phone Upon switching the call to Private, the vehicle mic and speaker will turn off to allow a private conversation through the mobile phone
9. MIC Off	**Adjusts outgoing volume during calls** Sets call volume as heard by the other party (Levels 0~5) The outgoing volume may be heard differently depending on the connected Bluetooth?device0

Information
- The mobile phone battery and signal strength icons may not be supported in some mobile phones.
- The remaining battery level displayed on your mobile phone battery icon may slightly differ with the device display.
- The speed dial feature may not be supported in some mobile phones.
- The name of the other party is displayed if the other party's number is saved within your contacts. If not, only the phone number is displayed..

Starting Mode

Making/Answering Calls

Calling by dialing a number

Enter number on the dial pad ▶ Press the [Send] button or the [ ] key on the steering remote controller.

If you press the Send button without entering a number, the Call History screen is displayed.

Press and hold the dial pad 0 + (over 0.8 seconds) to enter a "+".

> *Information*
> Most functions within AV mode and INFO will not operate during a Bluetooth Handsfree call. Only the call volume and Navigation screens can be operated.

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.
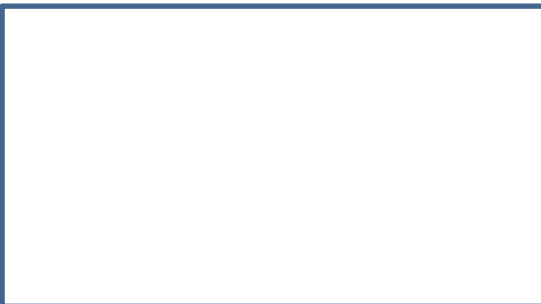
> *Information*
> • For speed dials saved within mobile phones, up to 2 digits are supported.
> • Saving or changing speed dial numbers through the head unit.

Calling through Redial

Press the hold (over 0.8 seconds) the [Send] button or the key on the steering remote controller.

> *Information*
> Redialing is not possible when there is no call history or the Bluetooth phone has not been connected.

Making a call from Call history

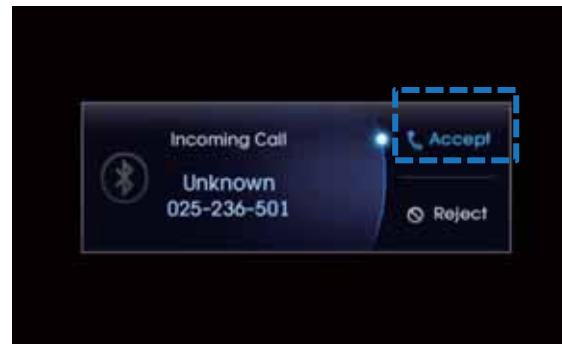**Press the [Send] button or the Key on the steering remote controller ▶ Select the call list ▶ Press [Call]**

Answering a call

Incoming call notice ▶ Press the [Accept] button or the [ ] key on the steering remote controller.

When a call is received on the connected phone, the bell will sound and the phone number of the other party will be displayed on the incoming call pop-up, as shown here.

Information
• When the incoming call pop-up is displayed, most functions within AV mode and SETUP will not operate. Only the call volume and Navigation screens can be operated.
• The telephone number may not be displayed in some mobile phones.

Rejecting a call

Incoming call notice ▶ Press the [Reject] button or the [ ] key on the steering remote controller.

Information
• The reject call function may not be supported in some mobile phones.

Operating Menus during a Call

Switching Call to the Bluetooth phone

During Handsfree call ▶ Press the [Private] button or press and hold the [ ] key (over 0.8 seconds) on the steering remote controller.

The call will be switched from the Handsfree to the Bluetooth mobile phone.

Information
The Private function may not be supported in some mobile phones.

Switching Call to the Handsfree

During call on mobile phone ▶ Press the [Use Handsfree] button or press and hold the [ ] key (over 0.8 seconds) on the steering remote controller.

The call will be switched from the Bluetooth mobile phone to the car handsfree.

Ending a call

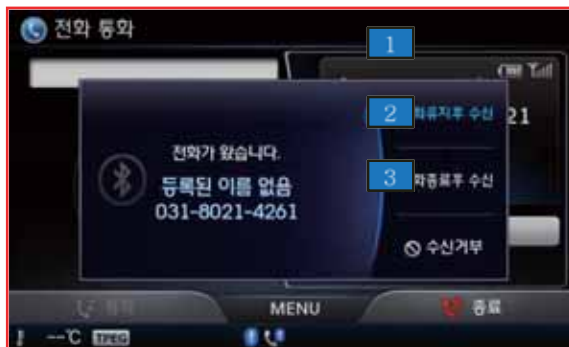While on a call ▶ Press the [End] button or the [ ] Key on the steering remote controller.

The Bluetooth handsfree call will end.

Switching to Call Waiting

If another person calls while you are already on a call, the current call must be placed on hold or ended to answer the new call.

If there is waiting call, press the [ ] key on the steering remote controller (under 0.8 seconds) or press the [Switch] button on the Phone screen.

Name	Description
1. Hold 1st call	Places current call on call waiting and answer new call
2. End 1st call	Ends current call and answer new call
3. Reject	Rejects new call and maintains current call
4. Switch	If there is a call waiting, switches to the waiting call waiting call

Information
• Call waiting is a feature that allows the caller to answer a second call while already on a call. When call waiting is used, the first call is placed on waiting mode.

• The Private function may not be supported in some mobile phones.

Setting Mic Off

While on a call ▶ Select [Mute]

If you press the [Mute] button, The outgoing volume is muted and blocked to the other party.

Information
The volume heard by the other party may differ depending on the mobile phone. If call volume heard by the other party is too low or too high, first adjust the volume setting.

Adjusting the Ring/Call Volume

While on a call ▶ Use the [VOL] knob on the head unit or the [+], [-] keys on the steering remote controller to adjust the ring/call volume.
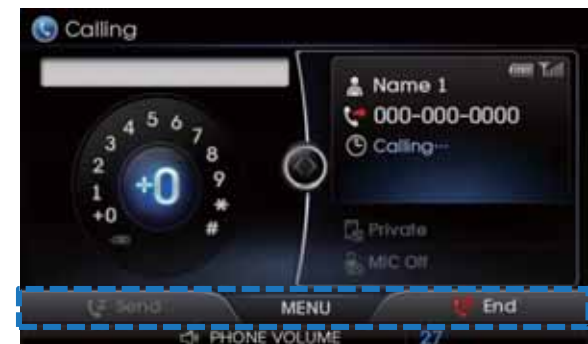
Contacts

Press [PHONE] button ▶ Select [Contacts]

Name	Description
1. Send	Calls the corresponding number
2. Search	Search contacts by name or number
3. Download	Download contacts from Bluetooth device
4. Contacts List	Downloaded Contacts
5. MENU	Displays menu screen

Information
• Mobile phone contacts can only be searched when a Bluetooth device is connected.

• Up to 5,000 contacts saved in your Bluetooth phone or USIM can be downloaded into the car contacts. Contacts that have been downloaded to the car cannot be edited or deleted.

• Mobile phone contacts are managed separately for each paired Bluetooth device (max 5 devices x 5,000 contacts each). Previously downloaded data is maintained even if the Bluetooth device has been disconnected. (However, the contacts and call history saved to the phone will be deleted if a paired phone is deleted.)

Information
• If there are numerous list entries, selecting the list page area will move to the corresponding list page.
• It is possible to download contacts even during a call or during Bluetooth streaming audio.
• When downloading call histories, the icon will be displayed within the status bar.
• It is not possible to commence download when the contacts download feature has been turned of within the Bluetooth device. In addition, some devices may require device authorization upon attempting to download contacts. If downloading does not normally occur, check the Bluetooth device settings or the screen state.
• The download feature may not be supported in some mobile phones. Check to see that the Bluetooth device supports the download feature. **For more information of supported Bluetooth devices and function support, visit the BLUmembers website (blu.hyundai.com)**
• Mobile and car contacts data could be lost depending on the state of the head unit. Please back up important data within a safe location.

Download Mobile Phone Contacts

Press the [MENU] key ▶ Press [Download] ▶ Press [Yes]

Information
• Upon downloading mobile phone contacts, the previous corresponding data is deleted.
• This feature may not be supported in some mobile phones.
• Upon downloading, contacts saved in your USIM and mobile phone are simultaneously downloaded.
• When using **Contacts Sync**, the contacts and call histories within your mobile phone are automatically downloaded upon connecting Bluetooth. If you do not wish to use this feature, turn **Contacts Sync Setting** off.

Entering Call History Screen

Press the [PHONE] Key ▶ Select [Call History]

Name	Description
1. Received	Displays the incoming call history list
2. Dialed	Displays the outgoing call history list
3. Missed	Displays the missed call history list
4. Send	Dial to selected number
5. Delete All	Delete entire call history

Information
• The call history may not become saved in the call history list in some mobile phones.

• Calls received with hidden caller ID will not become saved in the call history list.

Searching Contacts (By Name)

Press the [Search] Key ▶ Select [Search by Name]

After inputting is complete, press the [Done] button to save.

> **Information**
> Upon search, initial search and intermedial search is supported.

Searching Contacts (By Number)

Press the [Search] Key ▶ Select [Search by Number]

After inputting is complete, press the [Done] button to save to search saved numbers.

> **Information**
> When searching a number, it is possible to search by entering a part of the entire number. (ex: if you enter "1544", all numbers with "1544" will be searched.)

Bluetooth Settings

Auto Connection

Press the [Settings] key ▶ Select [Auto Connection]

If auto connection is turned on, a Bluetooth device will automatically be connected according to the option setting when the car ignition is turned on.

Name	Description
1. Off	Disables auto connection
2. Previous Phone	Auto connection with the previously connected Bluetooth phone
3. User Selected Phone	Displays the outgoing call history list
4. Connect by Priority	Automatically connects according to the set Bluetooth phone priority

Ringtones

Press the [Settings] Key ▶ Select [Ringtones]

This option is used to select ringtones for the connected phone.

Contacts Sync

Press the [Settings] key ▶ Select [Contacts Sync]

When connecting a Bluetooth device, it is possible to automatically download new contacts.

SMS

Press the [Settings] Key ▶ Select [SMS]

This option is used to check messages (SMS) through the vehicle handsfree.

Bluetooth Audio
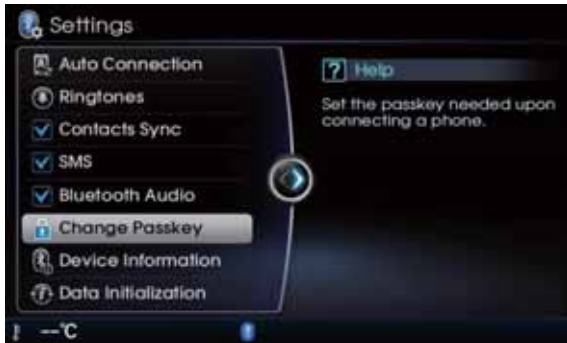
Press the [Settings] key ▶ Select [Bluetooth Audio]

You can play music files saved in your Bluetooth device from the car.

Change Passkey

Press the [Settings] key ▶ Select [Change Passkey]

This option is used to change the passkey needed upon connecting a Bluetooth phone.

> *Information*
> The default pin code is ˚0000˚.
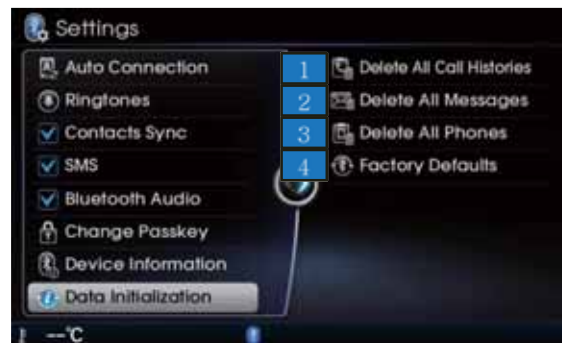
Device Information

Press the [Settings] Key ▶ Select [Device Information]

This option is used to check information about the connected device, such as device name, address, and type.

Data Initialization

Press the [Settings] Key ▶ Select [Data Initialization]

When connecting a Bluetooth device, it is possible to automatically download new contacts.

| Name	Description
1. Delete all call history	Delete all dialed / received / missed call lists
2. Delete All Messages	Delete all received messages
3. Delete All Phones	Delete all registered phones
4. Factory Defaults	Reset Bluetooth settings and data to factory state

6 INFO

- XM Data
- Car Settings
- System Settings
- Sound Settings
- Display Settings

Starting Mode

Press the [HOME] Key ▶ Press [INFO]
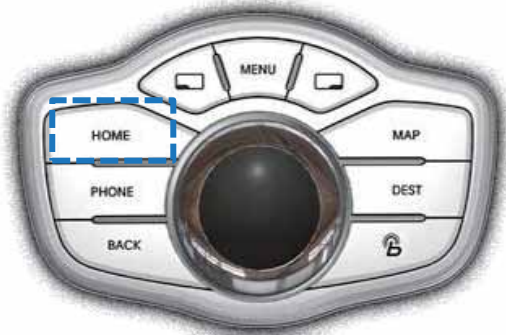
XM Data

Weather

Press the [XM Data] button ▶ Press
[Weather]

Traffic

Press the [XM Data] button ▶ Press [Traffic]

Stocks

Press the [XM Data] button ▶ Press [Stocks]
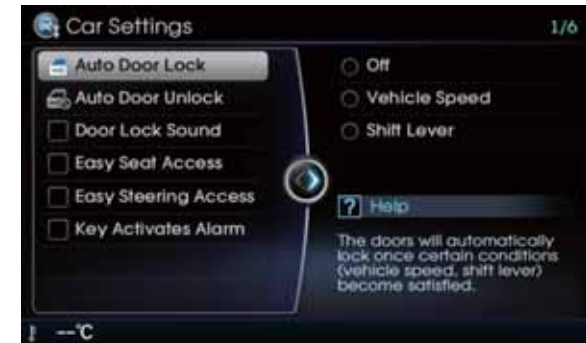

Sports

Press the [XM Data] button ▶ Press [Sports]

Car Settings

Auto Door Lock

Press the [Car Settings] button ▶ Press [Auto Door Lock]

This option enables doors to be automatically locked in certain conditions (vehicle speed, shift lever).

Auto Door Unlock

Press the [Car Settings] button ▶ Press [Auto Door Unlock]

Turning on this option enables doors to be automatically unlocked in certain conditions (vehicle speed, shift lever).

Door Lock Sound

Press the [Car Settings] button ▶ Press [Door Lock Sound]

Turning on this option will sound a signal when the car is locked/unlocked when using a remote control.
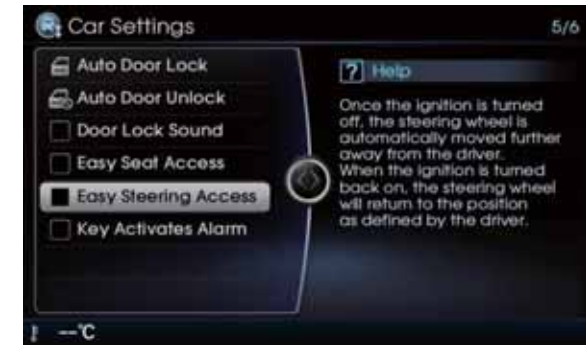
Easy Seat Access

Press the [Car Settings] button ▶ Press [Easy Seat Access]

Turning on this option will automatically move the driver-side seat when the ignition is turned off and re-position it when the ignition is turned on again.

Easy Steering Access

Press the [Car Settings] button ▶ Press [Easy Steering Access]

Turning on this option will automatically move the steering wheel when the ignition is turned off and re-position it when the ignition is turned on again.

Key Activated Alarm

Press the [Car Settings] button ▶ Press [Key Activated Alarm]

Turning on this option will activate the car alarm when the vehicle is locked by either the remote key or the actual key. 니다.

System Setting

Voice Recognition

Press [System Settings ▶ Press [Voice Recognition]

This option enables you to set Voice Recognition mode to either Normal or Expert mode.

Name	Description
1. Normal	Provides detailed prompts for beginner users
2. Expert	Provides simple prompts for experienced users

Setting Power Off Setting (Frame Image)

Press [System Settings] ▶ Press [Power Off Settings]

Name	Description
1. Image	Display screen as image
2. Find Image	Used to select a different image
3. None	Turns Frame off

Language

Press [System Settings] ▶ Press [Language]

This option is used to change the language of the system display. It is possible to set to Korean, English, and other languages.

Information
• **If the language is set to English or another language, then voice recognition may not be supported.**

Part 6. INFO

Keyboard

Press [System Settings] ▶ Press [Keyboard]

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

Name	Description
1. ABC	Keyboard with characters arranged in order
2. QWERTY	Keyboard similar to the one used within a computer

> **_Information_**
> The set keyboard will be applied to all input modes across the entire system.

Interactive Guide

Press [System Settings] ▶ Press [Interactive Guide]

This option is used to turn on the Interactive Guide that provides explanations and simple examples of ways to use the Controller.

Help

Press [System Settings] ▶ Press [Help]

This option provides Help sections for key features found within the system.

System Update

Press [System Settings] ▶ Press [System Update]

After inserting the SD card where the updated file is downloaded, press [USB Update] to start the update. Once updating is complete, the system will automatically restart.

Information

• This product requires regular updates for software corrections, new functions and map updates. Updating may require up to 1 hour depending on the data size.

• Turning off the power or ejecting the SD card during the update process may result in data loss. Make sure to keep the ignition on and wait until updating is complete.

• For up-to-date maps and software, visit the site **(blu.hyundai.com)** and download related files to an SD card.

Sound Settings

Fader/Balance
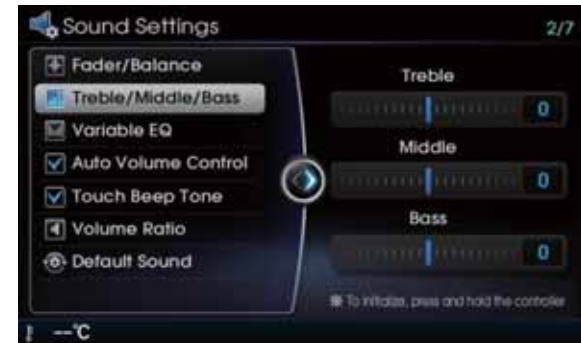
Press [Sound Settings] ▶ Press [Fader/Balance]

Use the top/down/left/right buttons on the [○] to move the cursor on the control screen to the desired position.
Press and hold the [○] for approx 3 seconds to restore sound to the center position.

Information

▪ The Balance/Fader settings allow the position of the sound to be set. For example, the sound can be set towards the driver seat so that the volume relatively lower in the passenger seat or back seats.

Treble/Middle/Bass

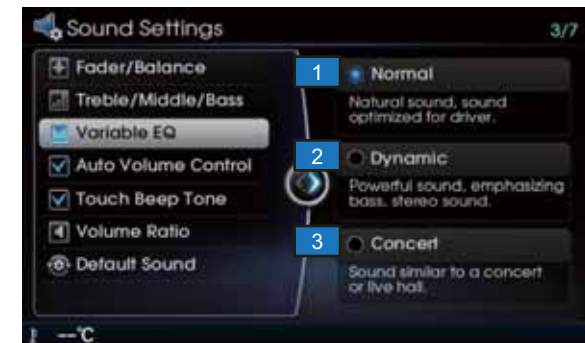**Press [Sound Settings] ▶ Press [Treble/Middle/Bass]**

Use the [<] or [>] cursors to adjust the bass/mid/treble settings.

Press and hold the controller for approx 3 seconds to restore all settings back to 0.

Variable EQ

Press [Sound Settings] ▶ Press [Variable EQ]

This option allows users to set the sound mode according to one's preferences.

Name	Description
1. Normal	Natural sound, sound optimized for driver
2. Dynamic	Powerful sound, emphasizing bass, stereo sound
3. Concert	Sound similar to a concert or live hall

Auto Volume Control (AVC)

Press [Sound Settings] ▶ Press [Auto Volume Control]

The volume level is automatically controlled according to the vehicle speed.

Touch Beep Tone

Press [Sound Settings] ▶ Press [Touch Beep Tone]

Each press of this setting with turn the BEEP tone ON/OFF.

Volume Ratio

Press [Sound Settings] ▶ Press [Volume Ratio]

These options are used to set the volume ratio by selecting from Navigation Priority/ Audio Priority/Same Ratio.

Name	Description
1. Navigation Priority	Navigation guidance is output louder than audio volume
2. Audio Priority	Audio volume is output louder than the navigation guidance
3. Same Ratio	Audio volume and navigation guidance are output in identical volume

> *Information*
> The rear seat speaker will maintain its audio volume regardless of which volume ratio is selected.

Default Sound

Press [Sound Settings] ▶ Press [Default Sound]

This option is used to restore all Sound settings back to the default state.

Part 6. INFO

Display Settings

Adjust Screen

Press [Display Settings] ▶ Press [Brightness/Saturation/Contrast/Color]

This option is used to set the screen brightness and color.

LCD Brightness

Press [Display Settings] ▶ Press [LCD Brightness]

This option is used to change the LCD brightness. Press and hold the [○] for approx 3 seconds to restore brightness to the default setting

Illumination

Press [Display Settings] ▶ Press [Illumination]

Name	Description
1. Automatic	Adjusts the brightness automatically according to surrounding brightness
2. Daylight	Always maintains the brightness on high
3. Night	Always maintains the brightness on low

Information
When set to Automatic, the screen brightness and color will automatically be adjusted according to the surrounding brightness.

Ratio

Press [Display Settings] ▶ Press [Ratio]

This option is used to set the screen ratio in video modes, such as VCD/DVD/USB Video/AUX.

Name	Description
1. Normal (4:3)	4:3 screen display
2. Wide (16:9)	16:9 wide screen display
3. Full Screen	Full screen display

Information
If a DVD is created with a defined ratio (example: 16:9), the screen will not change even if a different screen ratio (example: Normal) is selected.

Default Display

Press [Display Settings] ▶ Press [Default Display]

This option is used to restore all Display settings back to the default state.

MAP DATABASE HOTLINE

M & SOFT AMERICA MAP CENTER

TEL : 888-757-0010

WEBSITE : www.mapnsoft.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum 20 cm between the radiator and your body.
This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

IC Warning
 This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions: (1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et
 (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi,
 même si le brouillage est susceptible d'en compromettre le fonctionnement.

APPENDIX