HYUNDAI
KIA MOTORS
96554-?????
CLASS⑩
Navigation Map
Use only to save map
16GB

S MAP

DVD
V I D E O

DOLBY
DIGITAL

DIGITAL NAVIGATION SYSTEM
OWNER'S MANUAL

Bluetooth

dts
Digital Surround

DIVX

KIA KIA MOTORS

Thank you for purchasing this Audio Navigation System.

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

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

iPod®

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Bluetooth®

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A Bluetooth® enabled cell phone is required to use Bluetooth® wireless technology.

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

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Warnings and Cautions

⚠ Safety **Warnings**

01 ···· 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.

02 ···· Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.

03 ···· 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.

04 ···· Do not disassemble, assemble, or modify the AVN system. Such acts could result in accidents, fire, or electric shock.

05 ···· Heed caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire, or product malfunction.

06 ···· 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.

07 ···· Do not touch the antenna during thunder or lightening as such acts may lead to lightning induced electric shock.

08 ···· Do not stop or park in parking-restricted areas to operate the product. Such acts could lead to traffic accidents..

09 ···· 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. (The screen will operate when the parking brake is set to ON for manual transmission vehicles and when set to P or Parking Brake On state for auto transmission vehicles.)

10 ···· 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.

⚠ Safety **Cautions**

Pay attention to traffic conditions while driving.

01 ···· In some instances, the navigation may provide guidance through restricted areas.

02 ···· 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.

03 ···· 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.

04 ···· 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.)

05 ···· If you want to change the position of device installation, please inquire with your place of purchase or service maintenance center.

06 ···· Technical expertise is required to install or disassemble the device.

07 ···· 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.

08 ···· 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.

09 ···· 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.

10 ···· When cleaning the device, make sure to turn off the device and use a dry and smooth cloth.

11 ···· 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.

12 ···· When experiencing product malfunctions, inquire with your place of purchase or service maintenance center.

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 Player	**Auto Play Feature** • Auto play feature upon inserting Audio CD, MP3, or DVD disc
Others	**Digital Screen Control Features** • Easy control of screen brightness, contrast, color and saturation through touch screen options

Component Names and Functions

Head Unit

Notation	Description
1 PHONE	Converts to Bluetooth® Handsfree mode
2 DISP	Converts to DISP mode
3 SEEK / TRACK	**When** SEEK , TRACK **keys are pressed shortly (under 0.8 seconds)** • In FM/AM mode, plays previous/next frequency • In DVDP CD/MP3/DVD and USB/iPod modes, changes the track, file or chapter **When** SEEK , TRACK **keys are pressed and held (over 0.8 seconds)** • In FM/AM mode, continuously changes the frequency until the key is released and plays the current frequency • In DVDP CD/MP3/DVD and USB/iPod modes, rewinds or fast forwards the track or file
4 INFO SETUP	Displays Info and Setup mode
5 ROUTE	Displays Route menu Setup screen
6 FM/AM	Converts to Radio (FM/AM) mode
7 MEDIA	Displays CD, MP3, DVD, USB, iPod, or AUX Bluetooth® Audio Streaming If the media is not connected or a disc is not inserted, corresponding modes will be disabled

Component Names and Functions

Notation	Description
8 ● PWR Key ● VOL Knob	• These knob is used to turn the device on/off and control the 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 control volume
9 MAP VOICE	Displays the map for the current position
10 DEST	Displays the Destination setup menu
11 ● TUNE 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
12 ▲	Press to insert or eject disc
13	SD Card insert slot
14 RESET	Resets and restarts the system

Steering Remote Controller

Notation	Description
1 MODE	• Each time this key is pressed, the mode is changed in order of FM1 → FM2 → AM → DVDP → USB(Music Video) or iPod → AUX → Bluetooth® Audio • If the media is not connected or a disc is not inserted, corresponding modes will be disabled. • Press and hold the key (over 0.8 seconds) to turn the AV system on/off • When power is off, press the key to turn power back on
2 ◁+ ◁-	Controls CD, MP3, USB, iPod, DVD or Radio volume
3 ∧ ∨	**When ∧ , ∨ 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 ∧ , ∨ 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

Component Names and Functions

Component Names and Functions

Steering Remote Controller

Notation	Description
4 📞	**When pressed shortly (under 1.2 seconds)** • When pressed in the phone screen, displays call history screen • When pressed in the dial screen, makes a call • When pressed in the incoming call screen, answers the call • When pressed during call waiting, switches to waiting call (Call Waiting) **When pressed and held (over 1.2 seconds)** • When pressed in the Bluetooth® Handsfree wait mode, redials the last call • When pressed during a Bluetooth® Handsfree call, switches call back to mobile phone (Private) • When pressed while calling on the mobile phone, switches call back to Bluetooth® Handsfree • (Operates only when Bluetooth® Handsfree is connected)
5 📞	Ends phone call

2 AV

FM/AM Mode

Basic Mode Screen

Name	Description
1 Mode Display	Displays currently operating mode
2 Preset	Select saved broadcasts through Auto Store
3 Setting Display	Displays the operating function from Scan/Preset Scan/ Auto Store
4 Stereo Preception	Shows that the current broadcast is a stereo broadcast
5 Frequency	Currently playing frequency
6 Menu	Displays Preset Scan button
7 Scan	Plays frequencies with superior reception for 5 seconds each
8 Auto Store	Saves frequencies with superior reception to Preset buttons
9 Preset Scan	Plays preset frequencies for 5 seconds each

Starting Mode

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

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

Using Auto Store

Press the SEEK , TRACK keys to automatically search for frequencies.
- Shortly press the key (under 0.8 seconds): Plays previous/next frequency
- Press and hold the key (under 0.8 seconds): Changes the frequency while pressed and receives the next frequency upon release.

Using TUNE

Turn the ● TUNE knob left/right to select the frequency.
- FM1 / FM2: Increases/decreased by 100kHz
- AM: Increases/decreased by 9kHz

Scanning Presets

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

ℹ️ Information

- You can save up to 6 preset channels for each FM1, FM2 and AM.
- The station name and region is displayed by using GPS coordinates and are not displayed when the information cannot be received.
- The displayed station name and region is unrelated to radio sensitivity. The station name information may differ from the actual broadcast.

FM/AM Mode

Saving Radio Frequency

Saving Manually

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

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

Saving Automatically

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

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

🛈 Information

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

Scanning Radio Frequency

Press the ⊙Scan button to scan all radio frequencies.

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

Using the Menu Buttons

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

Preset Scan

After pressing the ⊞Menu button Press ⊙Preset Scan

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

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 fiberoptic 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.

Supported disc formats

This device supports the following disc formats.

Disc Type

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

Disc Format

Disc Type	Disc Format	Device Support
CD	CD-DA MP3 WMA MPEG4 AAC DTS-CD CD-RM CD-G CD-EXTRA CD-TEXT	x
DVD	MPEG4(VIDEO) DivX® (VIDEO) DVD DVD-VIDEO DVD-AUDIO DVD-RM DVD-VR CPRM	x x

Disc/Content format compatibility

By Format according to Disc Type

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

About Discs

Dual-layer DVD Video Disc

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.

DVD Region Code

The DVD Player and DVD discs are assigned region codes. The region code of this device is <2>.

Ordinary Disc Compatibility

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

DVD–Video   Audio–CD

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

CD-R/RW Compatibility

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

PC-created disc compatibility

• When burning a disc on 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

• If mp3/wma file extensions are changed, such could result in malfunctions.
• In the case of MP3/WMA, write using only English. (Other languages are not supported)
• Unauthorized use of copy-protected music files is prohibited by law.
• Prolonged use of CD-R/CD-RW products that do not satisfy related specifications may result in product malfunction.
• When writing CDs, low-speed writing is recommended.

Compressed audio compatibility

• Physical formats of CD: Model 1, Model 2 XA format 1.
• This device supports audio file compressed through MPEG-1 audio stream layer 3 (MP3) using 8kbps ~ 320kbps (CBR), 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".
• This device does not support multi-session 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

About Discs

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.

MP3 File Structure

Recognition occurs through the same folder structure used within the disc.
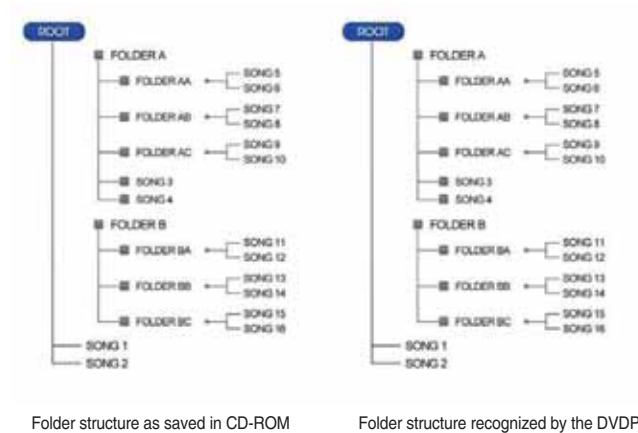
Folder structure as saved in CD-ROM   Folder structure recognized by the DVDP

About DVD Titles

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 2" or "All-region disc" is inserted, then a "Region Code Error" screen will be displayed and the disc will not normally play.

Supported DVD Region Code	

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"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	This device supports both NTSC and PAL color encoding methods.

Color TV Support

• This device supports both NTSC and PAL color encoding methods. Other methods besides NTSC and PAL may not be supported.

CD Mode

Basic Mode Screen
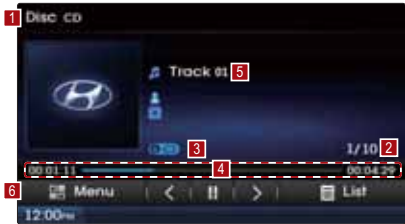
Name	description
1 Mode	Displays currently operating mode
2 Track Index	Shows the current track/total tracks
3 Repeat/ Shuffle/ Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Play Time	Displays the current play time and total play time
5 Track	Track number of current song
6 Menu	Displays Repeat, Shuffle, Scan, and Info On (Info Off) menus

Name	description
7 Repeat	Repeats the current track
8 Shuffle	Plays disc tracks in random order
9 Scan	Scans the beginning parts of disc tracks (approx 10 seconds per track)
10 Info Off (Info On)	Info Off: shows only track info Info On: shows track info, artist and album info
11 Previous Track	• When the play time is under 2 seconds: Moves to the previous track • When the play time is over 2 seconds: Plays the current song from the beginning
12 Play/ Pause	Plays/pauses the current track
13 Next Track	Moves to the next track
14 List	Moves to the track list screen
15 Artist Info	Displays artist info for current song (Will not be displayed if the information does not exist)
16 Album Info	Displays album info for current song (Will not be displayed if the information does not exist)

CD Mode

Starting Mode

Press the MEDIA Key   Press CD

ℹ Information

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

Playing a CD

• Press the ▶ button to play the track.
• Press the ❚❚ button to pause the track.

Fast-forwarding or Rewinding CD Tracks

While Playing   Press and hold the SEEK , TRACK key (over 0.8 seconds)

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

Searching CD Tracks

Turn the ● TUNE knob to search tracks. From the searched tracks, once the desired track name is displayed, press the ● TUNE knob to play the corresponding track.
Pressing the ● TUNE knob will play the selected track and display the basic display specification.

ℹ Information

• If the ● TUNE knob is not pressed within 5 seconds of searching a track, the track info for the current track is displayed.

Using the Menu Buttons

Press the Menu button to set the repeat, shuffle, scan and Info On/Info Off menus.

Repeat

Press the Menu button   Press Repeat
The current track is repeated.

ℹ Information

• Press the Repeat button again to turn off repeat. If nothing is selected, then all tracks will the shuffle option off.

CD Mode

Shuffle

Press the ⊞Menu button ➔ Press
⤨ Shuffle

> ℹ **Information**
> • Press the ⤨ Shuffle button again to turn the shuffle option off.

Scan

Press the ⊞Menu button ➔ Press
🔍Scan

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

> ℹ **Information**
> • Press the 🔍 Scan button again to turn the scan option off.

Info On/ Info Off

Press the ⊞Menu button ➔ Press
📄Info On The amount of information displayed on the screen can be selected. The title, artist, and album info are additionally displayed and the button will automatically change to 📄Info Off .
Press 📄Info Off to restore the previous information display setting.

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

MP3 CD Mode

Basic Mode Screen
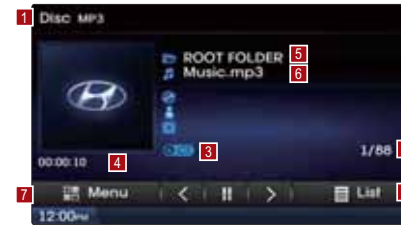
Name	Description
1 Mode	Displays currently operating mode
2 File Index	Shows the current MP3 file/total number of MP3 files
3 Repeat/ Shuffle/ Nomal Play	From Repeat All/Repeat One Song/Repeat Folder/Shuffle Folder/Shuffle All/Folder Scan/Scan All, displays the currently operating function
4 Play Time	Displays the current play time
5 Folder Name	Displays Folder Name for current file
6 File Name	Name of current file
7 Menu	Displays Repeat, Shuffle, Scan and Info On (Info Off) menus
8 List	Moves to the list screen

MP3 CD Mode

Basic Mode Screen

Name	Description
9 Repeat	Repeats the current file (each time the button is pressed, changes in order of Repeat Once Repeat Folder Off).
10 Shuffle	Plays files in random order (each time the button is pressed, changes option in order of Shuffle Folder Shuffle All Off)
11 Scan	Scans the beginning parts of MP3 files (approx. 10 seconds per file) (Each time the button is pressed, changes option in order of Folder Scan Scan All Off)
12 Info Off (Info On)	• Info Off: shows folder name/file name • Info On: shows folder name, file name, title, artist, and album info
13 Previous file	• When the play time is under 2 seconds: Moves to the previous file • When the play time is over 2 seconds: Plays the current file from the beginning
14 Play/Pause	Plays/pauses the current file
15 Next file	Moves to the next file

List Menu Screen

Name	Description
1 Folder Name	Folder name of current list
2 Current Song	Shows current file name highlighted
3 Back button	Converts to basic mode screen
4 Previous list	Moves to the previous list
5 Next list	Moves to the next list
6 List page	Shows current file list page/total number of pages
7 List Focus	Creates focus upon operating Tune
8 Home Folder	Moves to home folder
9 Parent Folder	Moves to the parent folder
10 Now Playing	When moving to a different list screen, moves to the list page where the current file is located Becomes disabled when the current list includes the current file

MP3 CD Mode

Starting Mode

Press the MEDIA Key ▶ Press MP3

Playing MP3

• Press the ▶ button to play the file.
• Press the ‖ button to pause the file.

Selecting MP3 files

Selecting from the Mode Screen
• Press the SEEK , TRACK keys to select the previous or next file.
• Pressing and holding the SEEK , TRACK keys will rewind or fast-forward the current file.

Using the Menu Buttons

Press the Menu button to set the repeat, shuffle, scan, and Info On/Off options.

Repeat

Press the Menu button ▶ Press Repeat
Each time the button is pressed, the option is changed from Repeat Once ▶ Off.

ⓘ Information

• Repeat Once: repeats the current file
• Repeat Folder : repeats all files in current folder

Shuffle

Press the Menu button ▶ Press Shuffle
Each time the button is pressed, the option is changed from Shuffle Folder ▶ Shuffle All ▶ Off.

ⓘ Information

• Shuffle Folder : plays files in current folder in random order.
• Shuffle All : plays all files in DISC in random order.

MP3 CD Mode

Scan

Press the ▶❚ Menu button ▶ Press 🔍 Scan

Each time the button is pressed, the option is changed from Folder Scan ▶ Scan All ▶ Off. The beginning (approx. 10 seconds) of files are scanned.

ⓘ **Information**
- Folder Scan : scans files in current folder.
- Scan All: scans all files in the disc.

Info On/ Info Off

Press the ▶❚ Menu button ▶ Press 🗏 Info On

The amount of information displayed on the screen can be selected.
Press 🗏 Info Off to restore the previous information display setting.

⚠ **CAUTION**
- The title, artist and album info are displayed only when such information is recorded within the MP3 file ID3 tag.

Using Menus within List Screen

Moving between Lists

Press the 🗏 List button ▶ Press the < / > buttons
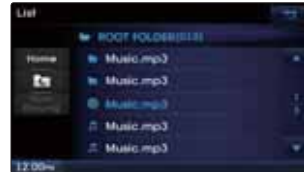
If five (5) or more files or folders exist the same folder, in the list will be displayed across two or more pages.
Press the ▲ / ▼ cursor buttons to quickly find the desired page.

ⓘ **Information**
- A lag may occur in displaying the previous/next list page depending on the file name or file size.

Moving between folders

Press the 🗀 button ▶ Select folder from the folder list
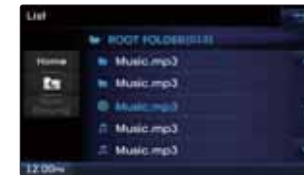
Pressing the 🗀 button will move to the folder one level above the current folder.
Pressing the Home button folder will move to the root folder.

ⓘ **Information**
- If there are no more parent folders, both Home , 🗀 buttons will be disabled.

Returning to current location

While searching files within other folders, press the Now Playing button to return to the currently playing file screen.
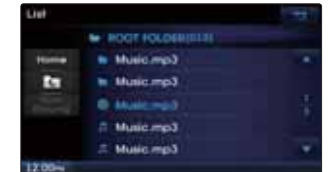
DVD Mode

Basic Mode Screen

Name	Description
1 Menu	Displays currently operating mode
2 Title/Chapter number	Displays the current title/chapter number
3 Play Time	Displays the current play time
4 Menu	Displays DVD Title, DVD Menu, Change Voice, Change Sub-title, and Change Angle menus
5 DVD Title	Depending on the DVD, there may be several initial setup menus. This button is used to return to the initial setup menu
6 DVD Menu	Used to return to setup menu screen while playing a DVD
7 Change Voice	Sets the voice language for DVD titles which support Multi-language
8 Change Subtitle	Sets the subtitle language for DVD titles which support Multi-subtitle
9 Change Angle	Sets the viewing angle for DVD titles which support Multi-Angle
10 Previous Chapter	Moves to the previous chapter
11 Play/Pause	Plays/pauses the DVD
12 Next Chapter	Moves to the next chapter
13 List	Through the title/chapter list, directly moves to the corresponding title/chapter Search is not possible during the initial DVD logo message screen. Search is only possible while the DVD is playing

Starting Mode

Press the MEDIA Key Press DVDP

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

Playing a DVD

- Press the ▶ button to play the DVD.
- Press the ‖ button to pause the DVD.

Selecting a Chapter

- Press the SEEK , TRACK keys to select the previous or next chapter.
- Press and hold the SEEK , TRACK keys (over 0.8 seconds) to rewind or fast-forward the current chapter.

- While the SEEK , TRACK key is being pressed, the chapter will rewind or fast-forward at high speeds. Once released, the DVD will begin playing at normal speed.

ⓘ Information

- While the SEEK , TRACK key is being pressed, the chapter will rewind/fast-forward at 20x speed. Once the key is released, the DVD again plays at normal speed.

DVD Mode

Searching Titles/Chapters

Press the List button to search DVD titles and chapters.

When Searching Titles :
Press the Title button Select the title number from the list

To exit from the list screen, press the button or press anywhere within the video area.

When Searching Chapters :
Press the Chapter button Select the chapter number from the list
To exist from the list screen, press the button or press anywhere within the video area.

i **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 Interactive Menu

Press the Menu button Select DVD Title , DVD Menu
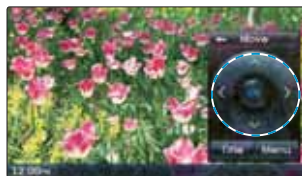
Use the top/down/left/right direction buttons to select the desired menu or press the Ok button.

i **Information** _____
• The menu screen will be displayed only when playing a DVD title encoded with an interactive menu.

Using the Menu Buttons

Press the Menu button to set the DVD Title, DVD Menu, Change Voice Language, Change Subtitle, and Change Angle menus.

i **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.

Changing Voice Language

Press the Menu button Press Change Voice

i **Information** _____
• Press the Change Voice button until you find the desired voice language.

Changing Subtitle Language

Press the Menu button Press T Subtitle Voice

i **Information** _____
• Press the T Subtitle Voice button until you find the desired subtitle language.

Changing Multi-Angle

Press the Menu button Press Change Angle

Multi-angle is a function which allows scenes to be viewed from various angles.

i **Information** _____
• Press the Change Angle button until you find the desired angle.

Viewing in Full Screen

While the menus are displayed, press any other area on the screen to hide the menus and view the DVD in full screen.

i **Information** _____
• If there are no operations for 10 seconds, the DVD menu will automatically disappear. Touching the screen in Full Screen mode will again display the menu.

DVD Mode

USB Mode

Before playing a USB MP3

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 bodilyparts/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 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.

▸ 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 Type Connector

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

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

USB Mode

i Information

• ABOUT DivX VIDEO:

• DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information 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

USB MP3 Information and Precautions

Name	Description
MP3 File Specification	Specification: MPEG1 AUDIO LAYER 3
Recommended bit rates and sampling frequency	Acceptable sampling frequency: 32, 44.1, 48 (KHz)
	Acceptable bit rate: 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

⚠ CAUTION

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

i 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 Mode

USB Mode

Basic Mode Screen

USB Music Mode
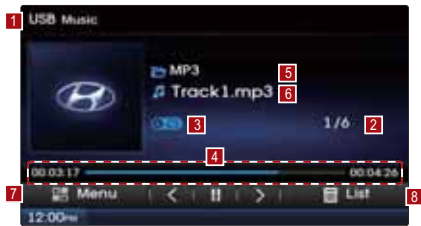
Name	Description
1 Mode	Displays currently operating mode
2 File Index	Shows the current file/total files within the USB
3 Repeat / Shuffle /Scan	From Repeat All/Repeat One Song/Repeat Folder/Shuffle Folder/Shuffle All/Folder Scan/Scan All, displays the currently operating function
4 Play Time	Displays the current play time/total play time
5 Folder Name	Displays folder name of current file
6 File Name	Name of current file
7 Menu	Displays Repeat, Shuffle, Scan and Info On (Info Off) menus
8 List	Moves to the list screen

Name	Description
9 Repeat	Repeats the current file (each time the button is pressed, changes in order of Repeat Once Repeat Folder Off)
10 Shuffle	Plays files in random order (each time the button is pressed, changes option in order of Shuffle Folder Shuffle All Off)
11 Scan	Scans the beginning parts of USB files (approx. 10 seconds per file) (Each time the button is pressed, changes option in order of Folder Scan Scan All Off)
12 Info Off (Info On)	• Info Off: shows folder name/file name • Info On: shows folder name, file name, title, artist, and album info
13 Previous File	• When the play time is under 2 seconds: Moves to the previous file • When the play time is over 2 seconds: Plays the current file from the beginning
14 Play/Pause	Plays/pauses the current file
15 Next File	Moves to the next file

USB Mode

USB Image Mode

Name	Description
1 Mode	Displays currently operating mode
2 Folder Name	Displays folder name where image is located
3 File Name	Name of image file
4 File Index	Shows the current image file/total image files within the USB
5 Menu	Displays Slideshow, Rotate Image, Adjust Image Size, Save Image, and Info menus (Press the button again to hide the buttons)
6 Previous Image	Shows previous image
7 Next Image	Shows next image
8 List	Moves to the list screen
9 Slideshow	View images as slideshow in 5, 10, 20, 30 second intervals
10 Rotate Image	Rotate image in clockwise direction
11 Adjust Image Size	Enlarge/reduce (zoom-in/zoom-out) image size
12 Save Image	Add image as frame screen displayed when the system power is turned off
13 Info	Shows the file name, resolution and file type of current image

USB Video Mode

Name	Description
1 Mode	Displays currently operating mode
2 Folder Name	Displays folder name where video is located
3 File Name	Name of video file
4 File Index	Shows the current video file/total video files within the USB
5 Repeat	Repeats the current file
6 Play Time	Displays the current play time/total play time of current USB video
7 Menu	Shows Repeat and Info buttons (Press the button again to hide the buttons)
8 Previous File	Moves to the previous file
9 Play/Pause	Plays/pauses the file
10 Next file	Moves to the next file
11 List	Moves to the USB Video list screen
12 Repeat	Repeats the current video
13 Info	Shows information on file name, resolution and total play time

USB Mode

Starting USB Music Mode

Press the MEDIA Key   Press
📷USB Music

If the USB is not connected, then the 📷USB Music button will be disabled.

ℹ️ Information

- Once a USB is connected, USB Music mode will operate automatically.
- If a previously played USB is re-connected, 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

- Press the ▶ button to play the USB Music.
- Press the ‖ button to pause USB Music.

Searching USB Music Files

Press the < , > buttons or the SEEK , TRACK keys to play the previous/next file.
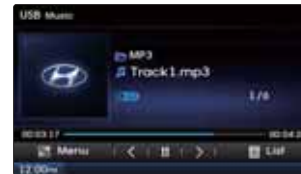
Pressing and holding the SEEK , TRACK keys (over 0.8 seconds) will rewind or fast-forward the current file. While the SEEK , TRACK key is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the USB Music will begin playing at normal speed.

ℹ️ Information

- The < , > buttons displayed on the screen allow you to select the previous/next file. These buttons will not rewind or fast-forward the file.

Using the Menu Buttons

Press the 🎵 Menu button to set the Repeat, Shuffle, Scan, Info On (Info Off) menus.

USB Mode

Repeat

Press the ⊞ Menu button ▶ Press
⟲ Repeat

Each time the button is pressed, the option is changed from Repeat Once ▶ Repeat Folder ▶ Off.

ℹ Information
• Repeat Once: Repeats play of currently playing file.
• Repeat Folder : Repeats the files in the current folder.

Shuffle

Press the ⊞ Menu button ▶ Press
⤮ Shuffle

Each time the button is pressed, the option is changed from Shuffle Folder ▶ Shuffle All ▶ Off.

ℹ Information
• Shuffle Folder : Plays files within the current folder in random order.
• Shuffle All : Plays files within the USB in random order.

Scan

Press the ⊞ Menu button ▶ Press
🔍 Scan

Each time the button is pressed, the option is changed from Folder Scan ▶ Scan All ▶ Off.

ℹ Information
• Folder Scan : Searches files within the current folder.
• Scan All: Scans files within the USB in random order.

Info On/ Info Off

Press the ⊞ Menu button ▶ Press
🗏 Info On

The screen display can be set differently depending on user selection.
The title, artist, and album info are additionally displayed and the button is changed to 🗏 Info Off .
Press 🗏 Info Off to restore the previous information display setting.

⚠ CAUTION
• The title, artist and album info are displayed only when such information is recorded within the MP3 file ID3 tag.

Starting USB Image Mode

Press the MEDIA Key ▶ Press
🖼 USB Image

Searching USB Image Files

Press the < , > buttons to select the previous/next image.

ℹ Information
• Pres the 🗏 List button to view the list of USB images.

Using the Menu Buttons

Press the ⊞ Menu button to set the Slideshow, Rotate Image, Adjust Image Size, Save Image and Info menus.

USB Mode

Slideshow Interval

Press the ⊞ Menu button Press
🖼 Slideshow

Image slideshow intervals can be set at
5sec , 10sec , 20sec , or 30sec intervals.

Rotating Image

Press the ⊞ Menu button Press
↻ Rotate Image

Each time the ↻ Rotate button is pressed,
the image is rotated from 0 90 180
270 degrees.

ⓘ **Information**
• Rotated images are not saved.
• The image will restore its original angle
  when returning to it after viewing a dif-
  ferent image.

Adjusting Image Size

Press the ⊞ Menu button Press
⊞ Adjust Image Size

Press the - , + buttons to enlarge or
reduce the image size. The scale can be
changed from 1/4, 1/2, 1x, 2x, to 4x.

ⓘ **Information**
• Enlarged or reduced images are not
  saved.
• The image will restore its original size
  when returning to it after viewing a dif-
  ferent image.
• If the image cannot be fully displayed
  on the screen, touch the image to move
  the screen.

Saving Image Frame

Press the ⊞ Menu button Press
🖼 Save Image

ⓘ **Information**
• For details on using the picture frame,
  refer to the Picture Frame Settings
  within Setup.

Viewing Info

Press the ⊞ Menu button Press
ⓘ Info
This menu is used to check image informa-
tion, such as the image resolution and file
type.

Starting USB Video Mode

Press the MEDIA Key Press
🎬 USB Video

If the USB is not connected or there are
no video files within the connected USB,
then the 🎬 USB Video button will be dis-
abled.

USB Mode

Playing USB Video

- Press the ▢ button to play the USB video.
- Press the ❚❚ button to pause the USB video.

Searching USB Videos

Press the `<` , `>` button or the `SEEK` , `TRACK` keys to select the previous/next file.

Pressing and holding the `SEEK` , `TRACK` keys (over 0.8 seconds) will rewind or fast-forward the current file. While the `SEEK` , `TRACK` key is being pressed, the file will rewind or fast-forward at high speeds. Once the key is released, the USB video will begin playing at normal speed.

ℹ Information _____

- The `<` , `>` buttons displayed on the screen allow you to select the previous/next file. These buttons will not rewind or fast-forward the file.

Using the Menu Buttons

Press the 🎛 Menu button to set the Repeat and Info menus.

Repeat

Press the 🎛 Menu Press ↻ Repeat
Each time the button is pressed, the option is changed from Repeat Once Repeat Folder Off

ℹ Information _____

- Repeat Once : Repeats the current file
- Repeat Folder : Repeats the files in the current folder.

Info

Press the 🎛 Menu Press ⓘ Info
This menu is used to check file information.

iPod Mode

iPod Mode

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			Not Released			
iPod Nano						
iPod Mini	Not Supported					
iPod Shuffle	Not Supported					
iPod Touch					Not Released	
iPhone	Not Released				Not Released	
ipad			Not Released			

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i 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.

⚠ CAUTION

• 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.)

Steps upon Initial Connection

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

	1 Step	2 Step	3 Step	4 Step	5 Step
Play List	Play List	Play List name (category is same as iPod)			
Artist	Artist	Artist	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	

iPod Mode

Basic Mode Screen

Name	Description
1 Mode	Displays currently operating mode
2 File Index	Shows the current file/total files within the iPod
3 Repeat / Shuffle	From Repeat Once/Shuffle Category/Shuffle Random, displays the currently operating function
4 Play Time	Displays the current play time/total play time
5 Title	Displays name of current title
6 Artist Info	Artist name
7 Album Info	Album name
8 Menu	Displays Repeat, Shuffle, and Info On (Info Off) menus
9 Previous File	Moves to the previous file
10 Play/Pause	Plays/pauses the current file
11 Next file	Moves to the next file
12 List	Moves to the list screen
13 Repeat	Repeats the currently playing file.
14 Shuffle	Plays files in random order (each time the button is pressed, changes option in order of Shuffle Category ▶ Shuffle Album ▶ Off)
15 Info Off (Info On)	• Info Off: Shows title, artist, and album Info • Info On: Shows title, artist, album, genre, and composer info

Starting Mode

Press the MEDIA Key ▶ Press ♪ iPod

If the iPod is not connected, then the ♪ iPod button will be disabled.

• 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

• Press the ▶ button to play the iPod.
• Press the ‖ button to pause the iPod.

Searching iPod

Press the ☰ List button to display the initial iPod list screen.

When searching an iPod, it is possible to search by playlists, artists, albums, songs, genres, composers, audiobooks, and Podcasts.

iPod Mode

iPod Mode

ℹ Information

- If the search mode is accessed while playing a song, the most recently searched step is displayed.
- Search steps upon initial connection may differ depending on the type of iPod device.

Selecting iPod file

Press the `<` , `>` buttons or the `SEEK` , `TRACK` keys to select the previous/next file.

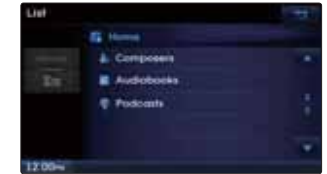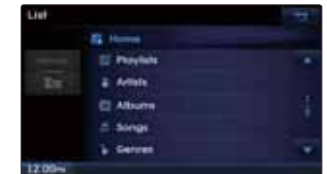Pressing and holding the `SEEK` , `TRACK` keys (over 0.8 seconds) will rewind or fast-forward the current song.

ℹ Information

- While the `SEEK` , `TRACK` key is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the iPod will begin playing at normal speed.

Searching iPod Files

Turn the ● TUNE knob to search files. From the searched files, once the desired file name is displayed, press the ● TUNE knob to play the corresponding file.
(During Search, the file name is displayed is red. If the knob is pressed, then the selected file is played and the basic mode screen is displayed.)

ℹ Information

- If there are no operations within 5 seconds, info on the current song will be re-displayed.

Using the Menu Buttons

Press the ▦ Menu button to set the Repeat, Shuffle, and Info On (Info Off) menus.

Repeat

Press the ▦ Menu button → Press ↺ Repeat
Repeats the currently playing file.

ℹ Information

- Press the ↺ Repeat button again to turn off repeat.

Shuffle

Press the ▦ Menu button → Press ⤨ Shuffle
Each time the ⤨ Shuffle button is pressed, the option is changed from Shuffle Category → Shuffle Album → Off.

ℹ Information

- Shuffle Category : Plays files within the current category in random order.
- Shuffle Album : Plays files within the current category in random order.

Info On/ Info Off

Press the ▦ Menu button → Press ▤ Info On
The screen display can be set differently depending on user selection.
The title, artist, and album info are additionally displayed and the button is changed to ▤ Info Off .
Press ▤ Info Off to restore the previous display setting.

AUX Mode

Starting Mode

Press the ⟨MEDIA⟩ Key ▶ Press
🄽 AUX

An external device is connected.

ℹ 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.

⚠ CAUTION

• 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.

Connecting an External Device

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.

ℹ Information

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

Bluetooth® Audio Mode

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.

Basic Mode Screen

Name	Description
1 Mode	Displays currently playing mode
2 Phone Name	Displays name of connected phone
3 Title	Name of current song
4 Artist Info	Name of current artist
5 Play	Plays Bluetooth® Audio
6 Pause	Pauses Bluetooth® audio
7 Connections	Displays the Connections screen.

🛈 *Information*

• The title/artist info may not be supported in some mobile phones.
  When not supported, a symbol will be displayed.

• The play/pause feature may operate differently depending on the
  mobile phone.

Bluetooth® Audio Mode

Starting Mode

Press the MEDIA Key   Press
🎵 Bluetooth Audio

If the Bluetooth® device is not connected, then the 🎵 Bluetooth Audio button will be disabled.

- Press the ▶ button to play files saved within the Bluetooth® phone.
- Press the ‖ button to pause the file.

Press the SEEK , TRACK keys to select the previous or next file.

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

Press the Connections button to add a new Bluetooth® phone, connect/disconnect, delete, delete all, or view the Help section.

Name	Description
1 Help	Displays Bluetooth® Help screen
2 Add New	Pair a new Bluetooth® device
3 Connect/ Disconnect	Connect or disconnect a Bluetooth® device
4 Delete	Delete a paired Bluetooth® device
5 Delete All	Delete all paired Bluetooth® devices
6 Auto Connection	Set Bluetooth® phone Auto Connection upon starting car ignition

ℹ️ Information _____
- If the Bluetooth® audio does not play, go to Setup   Bluetooth   Streaming Audio Setting .
- If the option is set to Off , change to On and try again.

- If music is not yet playing from your mobile device after converting to streaming audio (Bluetooth® Audio) mode , pressing the ▶ button once may begin mode play. Check to see whether music is playing from the Bluetooth® device after converting to streaming audio mode.
- The Streaming audio feature may not be supported in some mobile phones.

MEMO

3 Navigation

- Before Use
- Starting Navigation
- Using the Navigation
- Map Landmarks and Logos

Before Use

⚠ Precautions for safe driving

Please observe and comply with local traffic rules and regulations.

01 ⋯⋯ The route displayed for destination guidance is a reference that will take you to the vicinity of your destination. This does not always refer to the shortest distance route, route with the least traffic or the fastest route.

⋯⋯ Road, name, and POI information may not always been completely updated. Some places may not include up to date information.

03 ⋯⋯ There could be places where information on roads, territory names, and facilities are not completely up-to-date or are missing.

04 ⋯⋯ The car position mark does not always indicate your exact location. This system uses GPS information, various sensors, and road map data to display the current position. However, errors in displaying your location may occur if the satellite is transmitting inaccurate signals or two or less satellite signals can be received. Errors that occur in such conditions cannot be corrected.

05 ⋯⋯ The position of the vehicle within the navigation may differ from your actual location depending on various reasons, including the satellite transmission state, vehicle state (driving location and conditions), etc. Additionally, the car position mark may differ from the actual position if the map data is different from the actual road landscape, such as changes due to the construction of new roads.

If such differences occur, driving for a short period of time will automatically correct the position of the vehicle through map matching or GPS information (several minutes may be necessary in certain cases).

Operating the Navigation

↘ The navigation can be operated via touch. Touch the corresponding button on the screen to operate.

↘ If the button does not respond, take your finger off the screen and try again.

↘ When a button function is operating, the color of the selected button will be displayed differently.

↘ To return to the previous screen, press the [⇇] button.

↘ Press the [⇇] button to cancel functions that can operate on the current screen. (Some functions may not be canceled.)

ℹ *Information*

• Buttons that cannot be operated will be disabled.

Before Use

About the Map

Some roads, site names and facility information may have changed after map data update 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.
- For more information on Changing Map Scale, refer to the 'Changing Map Scale' section.

Scale Display	Scale	Scale Display	Scale
50m	1/5,000	6.4km	1/640,000
100m	1/10,000	12km	1/1,280,000
200m	1/20,000	25km	1/2,560,000
400m	1/40,000	50km	1/5,120,000
800m	1/80,000	100km	1/10,240,000
1.6km	1/160,000	200km	1/20,480,000
3.2km	1/320,000	400km	1/40,960,000

About Map Icons

Icons displayed on the map may differ from actual conditions. Multiple icons may also be displayed as one mark.

About Map Database

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

About GPS

GPS (Global Position System) :
GPS is a system developed and operated by the United States which determines the current location of the user (Longitude / Latitude, Coordinates, etc.) by generally using 4 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. For more information on GPS, refer to Part 5 'GPS Information'.

Starting Navigation

Map Screen

Name	Description
1 Car Direction	Used to set split map and shows map display mode and GPS status
2 Map Scale	Shows current map scale
3 Function/ Info Window	Shows map function buttons or current position info
4 Current Position Info Window	Shows current road name and destination name in 5 second intervals
5 Route Guidance Mode Conversion	Switches route guidance mode between preliminary guidance mode, motorway mode and TBT mode
6 Quick Menu	Allows users to easily and quickly access desired menus
7 Current Time	Shows the time
8 ETA/Remaining Time	Shows the ETA (Estimated time of arrival), remaining time and distance from current position to the destination
9 Preliminary Guidance	Provides distance, direction guidance at turn points and directions within the set route
10 Destination Direction	Shows the direction to the destination from the current position through the dotted line
11 Lane Info	Shows recommended lanes for use by considering upcoming intersections and expected routes
12 Car Position Mark	Displays current car position

Starting Navigation

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.

ℹ Information

- Once the vehicle ignition is turned on, the User Warning screen will always be displayed. Make sure to carefully read the warning page as it contains important information related to system operations while driving.

Current Position

Press the [MAP] key or the Ⓐ button displayed at the upper right side in some map conditions to display the map of the current position and the neighboring area.

ℹ Information

- When riding in a new car or after replacing the battery terminal, the car position mark may at first appear at a different location.
- Even if the car position mark on the map is different, map matching and GPS coordinates are utilized to automatically update the current position. It may take up to several minutes to find your current position.

Map Display Settings

Press the [MAP] Key   Press the 🖼

This button is used to set map screen related options, such as Split screen, 2D/3D, 3D directions, and Altitude adjustment.

Name	Description
1 Split Screen / Single Screen	Select between Split Screen or Single Screen Map.
2 Heading-Up/ North-Up	Display Map in Vehicle Traveling Direction (Heading-Up) or North-Up direction
3 2D/3D	Select between 2D or 3D map display
4 Map Altitude	Adjust altitude during 3D map display

ℹ Information

- The Heading-Up/North-Up, 2D/3D, and map scale adjustments can be used when using Split Screen map.

Changing Map Scale

Press the [MAP] Key   Press [100m]
Set the desired map scale
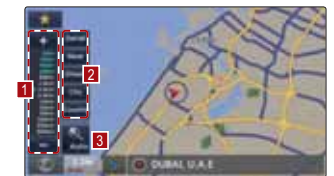
Press the [100m] button to display the map scale menu and change the map to the desired scale.

Starting Navigation

Name	Description
1 Adjust Map Scale	Use the [+] / [-] buttons to display the scale bar
2 Administrative District Scale	Shows map scales in categories of detail (50m), near (200m), street (800m), city (3.2km), country (100km)
3 Auto Scale	When [Auto] is enabled, automatically adjust map scale according to driving situation

ⓘ Information
• The [+] will be disabled when set to max scale (1/400km) and the [-] button will be disabled when set to min scale (1/50m).

Map Menu

Press the [>] button   Press the [Menu] button

Features frequently used within the map screen, such as [Set as Destination] , [Add Waypoint] , [View Destination] , [Cancel Route] , [Call] Call are displayed.

ⓘ Information
• If the screen is scrolled, then the top menu is changed to the [Set as Destination] button.

• If you have already set a destination, then the top button will change to the [Recalculate] button.

Setting Navigation Volume

Press the [>] button ▶ press the [⚙] button
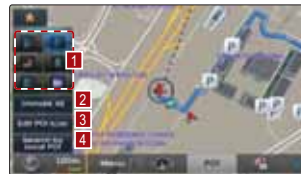
Press the [>] button and then the [⚙] button. The volume menu is displayed and allows you to adjust the navigation voice guidance volume.

The volume can be adjusted from 0~45 through the [+] / [-] button. Press the [Mute] button to turn off the sound.

POI Display

Press the [>] button   Press [POI]

When POI menus are displayed, pressing one of the 6 POI icon buttons will display the corresponding POI icons when the scale is under 400m.

Name	Description
1 POI Icon	Shows/hides corresponding POIs
2 Unmark All	Unmarks selected POI icons
3 Edit POI Icon	Edit the 6 POI icons shown within the menu
4 Search by local POI	Searches selected POI

Editing POI Icons

Press the [Edit POI Icon] button   Select the POI   Press [Done]

Select the desired facility type from the list.

Select the main category from the list.

Press the [Edit POI Icon] button to select the desired facility from the various facility types. Up to six favorite facilities can be set.
Press the [Default] button to reset the displayed POI icons.

Starting Navigation

Searching POIs

Press the `Search by local POI` button
Select the search criteria (Near current position, Near scroll mark, Near destination)
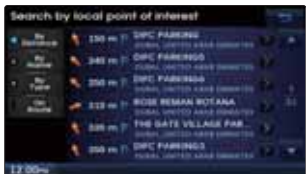
The POI mark is displayed according to the selected criteria.

Name	Description

1	Near Current Position	Within the 'Search by POI' menu, searches facilities based on the current vehicle position
2	Near Scroll Mark	Within the 'Search by POI' menu, searches facilities based on the current scrolled position
3	Near Destination	Within the 'Search by POI' menu, searches facilities based on the location of the destination

ⓘ *Information*
- When searching POIs, you can only search POIs within selected categories.
- The 'Near scroll mark' menu is enabled only when the map has been scrolled.

Adding a My Place

Press the 🗺 button   Select the desired group

This feature is used to save the current position or the scrolled position as a My Place or Speed Alert.

ⓘ *Information*
- My Places are saved without distinction for the driving or scrolled state.
- The Speed Alert button is displayed when a point is saved with the speed limit of the road while driving on the road.

Using the Navigation

Destination Search

Press the `DEST` key to display the Destination Search menu screen.

The Destination Search screen includes various search menus as well as shortcuts to Favorites to allow convenient searches to frequented destinations. By selecting the Favorite Places at the bottom of the screen, you can easily set previous locations as destinations.

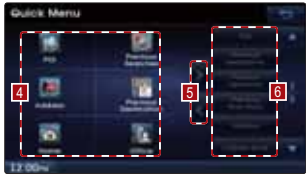|	Name	Description
1	POI (Point of Interest)	Used to search destinations by entering the POI name according to category/name
2	Previous Destination	Used for route guidance to recently set destinations
3	Previous Searches	Used for route guidance to recently searched locations
4	Previous Start Point	Used for route guidance to recent start positions
5	Address	Used to search addresses
6	My Place	Destination guidance for recently added My Places
7	Intersection Search	Used to search destinations by entering the intersection name
8	Map	Moves to the map screen
9	Emergency	Used to make emergency related searches
10	Coordinates	Used to search destinations by entering the coordinates
11	Phone Number	Used to search destinations by entering the phone number

ⓘ *Information*
- You can edit Favorite Places by pressing `i ⚙` key `🖥 Setup` button `🏠 Edit My Place` button to set `Home`, `Office` and four Favorite Places.

Using the Navigation

Quick Menu

Press the ⭐ button on the left side of the map screen Press Edit

Within the Quick Menu screen displayed after pressing the Edit button, up to six (6) quick menus can be selected.

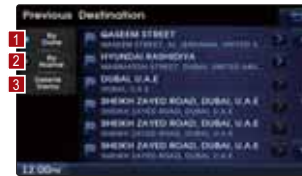| Name	Description
1 Quick Menu ( )	Display/hide Quick Menus
2 Quick Menu Bar	Menus added to the Quick Menu (possible to set up to 6 menus)
3 Edit	Edit current Quick Menus
4 Current Quick Menus	Shows list of current Quick Menus
5 Add/Remove	Add or remove Quick Menus
6 Quick Menu Categories	List of categories that can be added to Quick Menus

Point of Interest (POI) Search
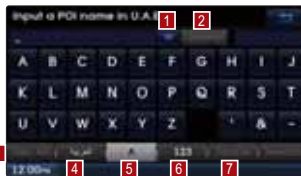
POI Search is a feature that allows you to search by entering the names of desired POIs.

Name	Description
1 Previous Destination	Shows list of previously searched destinations
2 Delete	Deletes letters one at a time
3 Del. All	Deletes all letters
4 Arabic	Switches to the Arabic keypad
5 English	Switches to the English keypad
6 Number	Switches to the Number keypad
7 Space	Adds a space
8 Search	Searches the entry

Previous Destination, Previous Searches, Previous Start Point

Press the DEST Key Press the button Previous Destination

Press the DEST Key Press the button Previous Searches

Press the DEST Key Press the button Previous Start Point

These search features allow you to search previous routes, previous searches and start points.

Name	Description
1 By Date	Sorts POIs and locations by added date
2 By Name	Sorts POIs and locations by name
3 Delete Items	From various entries, items can be selected and deleted all at once.

ℹ Information

• If the POI or region name is too long and cannot be displayed within one screen, pressing the > button will move the name to the left to display the full name.

Using the Navigation

Address

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

My Places

This search feature is used to search destinations by selecting previously saved My Places from the list to set as destinations.

Name	Description
1 By Name	Sort POIs and locations by name
2 By Symbol	Sort POIs and locations by symbol
3 By Date	Sort POIs and locations by date

ⓘ **Information**

• If the POI or region name is too long and cannot be displayed within one screen, pressing the > button will move the name to the left.
• It is possible to save up to 100 My Places per Group (total 500 My Places).

Intersection Search

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

Map

The map screen can be scrolled to set the destination.

Name	Description
1 Set as Destination	Sets the POI or region where the cursor is positioned as the new destination
2 Add Waypoint	Sets the POI or region where the cursor is positioned as a waypoint
3 View Destination	Displays information for the set destination
4 Cancel Route	Cancels the currently set route

Phone Number Search

This search feature is used to search the locations of POIs by entering the phone number of the desired POI destination. Press the Country button to enter the country code.

Using the Navigation

ⓘ Information

- The phone number and location may differ 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 actually list the numbers of management companies. In such cases, destination searches will be made to the management companies.
- The telephone number and addresses may change at any time.

Setting a Destination

Press the `DEST` Key   Search for the Destination   Press `Set as Destination`


- Conducting a destination search through the desired search method, select the desired destination from the list. (For more information on destination search methods, refer to the 'Destination Search' section.)

Alternative Route

Route Overview

- After verifying the location of the searched destination, press the `Set as Destination` button to calculate the route. The Route Overview or Alternative Route screen will be the displayed.
- Within the Route Overview or Alternative Route scren, press the `MAP` key or the `Start Guidance` button or just drive for over 5km/h or approximately 5 seconds to start route guidance.
- Press the `Add Waypoint` button to add a waypoint destination.

Detail Route Settings

Press the `Detailed Route Settings` button to change route calculation options until reaching the destination.
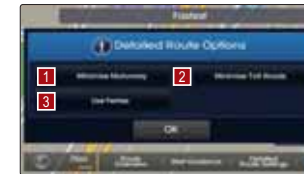
Name	Description
1 Minimise Motorway	Minimises use of motorways in calculating route to the destination
2 Minimise Toll Roads	Minimises use of toll roads in calculating route to the destination
3 Use Ferries	Includes ferries in calculating route to the destination

ⓘ Information

- If you press the `Set as Destination` button while a previous destination has already been set, the pop-up 'Do you want to change the destination?' will be displayed.
- If you press `Yes`, then the previous destination is deleted and the new destination will be set. Pressing the `Add Waypoint` button will add a waypoint destination. Within the Add Waypoint menu, up to three (3) waypoints can be added. Waypoints can be deleted and editing options, such as deleting passed waypoints, can also be set.

One Touch Scroll Setting

The destination can be set to the current map display.

- Scroll to the desired location on the map and press the `Set as Destination` button.

Using the Navigation

Route Calculation

- Once you have set a destination, calculate the route. The route overview and route option menus will be displayed.
- After checking the Route Overview, press the MAP key or the Start Guidance button or just drive for over 5km/h or approximately 5 seconds to begin guidance.

ℹ Information
- To learn more about 'Alternative Route', 'Route Overview' or 'Detailed Route Settings', refer to the 'Route Menu' section.

Demo

Within the Route Overview screen, press the Demo button.

- During Demo, press the MAP key to end the demo and display the current map position. If you start driving while viewing the route demo, demo will end and route guidance will start.
- During demo, press the > button and then the Menu button to change the demo speed from Fast/General/Auto. Press << or >> to skip over parts of demo guidance.

ℹ Information
- Demo will not operate after starting route guidance. To use the Demo feature, use after route calculation but prior to starting route guidance.

Add Waypoint

After searching for waypoints, press the Add Waypoint button to add the waypoint to the current route.

After adding a waypoint, you can delete the waypoint by pressing the Delete button or press the View Map button to check the map to the corresponding waypoint.

Route Recalculation

Once a route has been set, the Recalculate button is displayed at the top of the menus.

Using the Navigation

Pressing the Recalculate button will display a pop-up that allows you to change route options. Once the settings are changed, the route is recalculated by reflecting the changes.

> **ℹ Information**
> • For more information on Fastest, Shortest, and other route calculation options, refer to the route calculation section.

Cancel Route

In the map menu screen, press the Cancel Route button to cancel the current route.

> **ℹ Information**
> • You can cancel the route by pressing the Cancel Route button that is displayed after pressing the Menu button.

Route Guidance

Preliminary guidance, motorway mode, turn list guidance and other guidance screens are displayed according to the current road condition.

Within the guidance map screen, if the current position is on route, then intersection guidance will be provided once you are nearby an intersection.
Also, the intersection zoom screen is displayed when nearby an intersection.

> **ℹ Information**
> • Within all guidance mode screens, pressing the button at the bottom right side of the screen will change the route guidance mode.
> • Each time the button is pressed, the guidance mode will change in order of preliminary guidance   turn list   motorway guidance mode. (The icon within the button indicates the mode that will be displayed upon next press.)
> • Motorway and intersection zoom guidance are displayed on during guidance at corresponding roads.

Preliminary Guidance Mode

At the top right side of the screen, the next/after next turn info, remaining distance, direction and other information are displayed.

Intersection Zoom Mode

This mode provides detailed guidance nearby intersections before the next turn. This mode is displayed starting from 300m before the intersection on normal roads and 1km before the intersection on motorways.

Using the Navigation

Motorway Mode

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

You can check information for various POIs by using the View All , Summary and Rest Area buttons.

When scrolling through POIs by using the ▲ , ▼ buttons, pressing the ◉ button will select the POI closest to the current position.

Name	Description
1 View All	Guidance for all POIs on the motorway
2 Summary	Shows List of turn points and other directional route guidances while driving within motor ways
3 Rest Area	Guidance for only the rest areas on the motorway

Turn List Mode

Turn list mode shows turn information on the current route.

Route Menu

Pres the ROUTE key to use, edit, or optimize various route options.

Name	Description
1 Cancel Route	Cancels the currently set route
2 Route Overview	Shows the route overview to the set destination
3 Route Info	Shows detailed info for the current route
4 Route Option	Route calculation features with various route calculation options and settings
5 Detour	Used to set route detours
6 Avoid Streets	Used to edit the route by selecting avoid streets
7 Edit Route	Used to add /delete/change the order of destinations/ waypoints
8 Avoid Area	Used to edit route by adding Avoid Areas/Editing Avoid Areas and Deleting Avoid Areas

Using the Navigation

Cancel Route

Press the `ROUTE` key and then press the `⊗ Cancel Route` button to cancel the currently set route.

Route Overview

Press the `ROUTE` key ▶ Press `⊞ Route Overview`

Within the Route Overview screen, press the `Alternative Route` button to display other potential routes to the set destination. From the alternative route options, select the desired route.

Name	Description
1 Start Guidance	Starts guidance to the set route
2 Edit Route	Used to add/delete/change order of destinations/waypoints
3 Route Info	Shows route info to the set destination
4 Alternative Route	Displays various alternative route options for route calculation
5 Demo	Starts demo to the set destination

ℹ Information

- Even if the "Use Alternative Route Search" option is turned `On` within `⊞ Setup` ▶ `⊙ Navigation` ▶ `Route Search`, the "Route Overview" screen is displayed and the Alternative Route will still be disabled if the searched route includes a waypoint.
- After route calculation, the `Demo` button will operate within the "Route Overview" screen. However, if you have entered the Route Screen after route calculation, both the `Demo` and `Alternative Route` buttons will be disabled.

At the top right side of the screen, you can check various information, such as total distance, motorway distance, toll road distance and ferry distance.

Name	Description
1 Fastest	Fastest route that reflects distance and traffic conditions
2 Shortest	The shortest distance from start point to destination

Route Info

Press the `ROUTE` Key ▶ Press `⊞ Route Info`

The turn points and distance information by key roads within the set route are displayed. Press the `MAP` button next to each road name to display the map position for the corresponding location.

Route Option

Press the `ROUTE` Key ▶ Press `⊞ Route Option` ▶ Set and press `Done`

Route Options refer to conditions used to calculate the route to the destination. The route is automatically recalculated if the route options and detailed route settings are changed.

Using the Navigation

Name	Description
1 Fastest	Optimal route as determined by the system upon consideration of various route conditions
2 Shortest	The shortest distance from start point to the destination
3 Minimise Motorway	Route calculation with minimal use of motorways
4 Minimise Toll Roads	Route calculation with minimal use of toll roads
5 Use Ferries	Route calculation by including the use of ferries

Detour

Press the `ROUTE` Key   Press `Detour`

The Detour menu is used to re-define the route by setting a detour to a certain distance from the current position.

Avoid Streets

Press the `ROUTE` Key   Press `Avoid Streets`   Select the streets you want to avoid and press `Done`
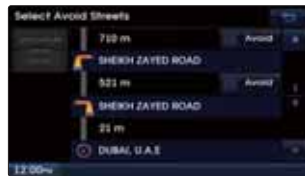
The Avoid Streets menu is used to avoid certain regions/streets within the road and turn list within the current route.

Edit Route

Press the `ROUTE` Key   Press `Edit Route`   Set and press `Done`

The Edit Route menu displays the start point, waypoints and the destination in list format and is used to edit corresponding positions or the order of destinations within the route. Within the screen, press the `Add Waypoint` button to add a waypoint. After a waypoint has been added, press the `Delete` button to delete the added waypoint. Press the `Delete Passed Waypoints` button to delete passed waypoints.

Avoid Area

Press the `ROUTE` Key   Press `Avoid Area`   Press the `Add new avoid area`   Select the desired avoid area and press `Done`

Step 1: Select the first order of the avoid area you wish to set and press `Next`

Step 2: Select the second order of the avoid area you wish to set and press `Next`

Step 3: Check the created avoid area and press the `Done` button to finalize the avoid area and recalculate the route to the destination.

This feature is used by creating a rectangle over the area to avoid.
An area set as an avoid area is excluded from the calculated route. If a route had been calculated prior to creating an avoid area, the route will automatically be recalculated.

ℹ Information
- Press the `Edit avoid area` button to edit a set avoid area.
- Press the `Delete all avoid area` button to delete all set avoid areas.

Map Landmarks and Logos

Logo/Landmark

These are landmark and logo icons that display facilities within 2D map mode. The size of the symbol may be displayed differently according to the map scale. Symbols may change without prior notice during map updates. Symbols shown within the manual represent a portion of all symbols and should only be used as a reference.

Logo

Category	Sub-category	Icon
Restaurant	Fast Food	
	Middle Eastern Food	
	Italian Food	
	French Food	
	Continental Food	
	Turkish Food	
	American Food	
	Mexican Food	
	Indian Food	
	Chinese Food	
	Japanese Food	
	Korean Food	
	Asian Food	
	African Food	

Category	Sub-category	Icon
Restaurant	Vegetarian Food	
	Seafood	
	Coffee Shop	
	Other	
Automotive	Automotive	
	Hyundai Auto Service	
	Kia Auto Service	
	Hyundai Dealership	
	Kia Dealership	
	Auto Service	
	Automobile Dealership	
	Parking	P
	ADNOC FOD	
	AL DREES	
	BAPCO	
	CALTEX	

Category	Sub-category	Icon
Automotive	EMARAT	
	EMIRATES	
	ENOC	
	EPPCO	
	KNPC	
	MOBIL	
	NAFT	
	PETROL	
	SHELL	
	Petrol Station	
	Rest Area	
	Frontier Crossing	
	Motorcycle Dealership	
Travel	Travel	
	Airport	
	Hotels	
	AMBASSADOR	

Category	Sub-category	Icon
Travel	BEST WESTERN	
	CARLTON	
	COURTYARD BY MARRIOTT	
	CROWNE PLAZA HOTEL	
	FOUR SEASONS	
	GOLDEN TULIP	
	HILTON	
	HOLIDAY INN	
	HOWARD JOHNSON	
	HYATT REGENCY	
	IBIS	
	IMA	
	INTERCONTINENTAL	
	KEMPINSKI	
	MARRIOTT	
	MERCURE	
	MERIDIEN	
	METROPOLITAN	

Category	Sub-category	Icon
Travel	MÖVENPICK	
	NOVOTEL	
	PLAZA HOTEL	
	RADISSON	
	RAMADA	
	RITZ-CARLTON	
	SHERATON	
	SOFITEL	
	TULIP INN	
	WESTIN	
	Other accommodation	
	Tourist Office	
	Tourist Attraction	
	Historical Monument	
	Camp Ground	
	City Centre	
	Rent A Car Facility	
	Bus Station	
	Railway Station	

Category	Sub-category	Icon
Travel	Ferry Terminal	
Shopping	Shopping	
	Shopping Centre	
	Department Store	
	Grocery Store	
	Convenience Store	
	Clothing Store	
	Home Specialty Store	
	Specialty Store	
	Sporting Goods Store	
	Home Improvement & Hardware Store	
	Consumer Electronics Store	
	Office Supply & Services Store	
	Book Store	
Recreation	Recreation	
	Amusement Park	
	Museum	
	Cinema	

Map Landmarks and Logos

Category	Sub-category	Icon
Recreation	Bowling Centre	
	Golf Course	
	Ice Skating Rink	
	Recreation Facility	
	Sports Activity	
	Sports Centre	
	Marina	
	Nightlife	
Financial Service	Financial Service	
	ATM	
	Bank	
Public places	Public places	
	Police Station	
	Hospital/Polyclinic	
	Medical Service	
	Pharmacy	
	City Hall	
	Community Centre	
	Court House	

Category	Sub-category	Icon
Public places	Embassy	
	Exhibition or Conference Centre	
	Government Office	
	Library	
	Place of Worship	
	Post Office	
	School	
	University or College	
Other	ETC	
	Business Facility	
	Resident'l Area/Bldg	
	Cemetery	
	Industrial Zone	

2D Landmark

Category	Sub-category	Icon
Service	Airport	
	Park	
	Golf	
	University	

4 Bluetooth® Handsfree

- Before Use
- Basic Mode Screen
- Using Bluetooth®

Before Use

Before using the Bluetooth® Handsfree

What is Bluetooth®?

01 ···· Bluetooth® refers to a short-distance wireless networking technology which uses a 2.45GHz frequency to connect various devices within a certain distance.

02 ···· 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.

03 ···· Bluetooth® Handsfree refers to a device which allows the user to conveniently make phone calls with Bluetooth® mobile phones through the AV/Navigation system.

04 ···· Within this vehicle, users can make handsfree calls, transmit mobile phone data, and play audio streaming files by connecting a mobile phone with the system.

Bluetooth®

Bluetooth® is a trademark owned by Bluetooth® SIG, Inc.

Functions supported by Bluetooth® Handsfree

· Pairing mobile phones (Up to 5 phones)
· Connecting/disconnecting mobile phones
· Making/Answering phone calls
· Downloading a Phone Book
· Downloading a Call history list
· Playing music saved in a Bluetooth® phone in the vehicle

Some functions may not be supported in some mobile phone.

⚠ Precautions for safe driving

01 ···· 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.

02 ···· 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.

03 ···· 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.

Before Use

⚠ Cautions upon connecting Bluetooth® phone

01 ···· Before connecting the head unit with the mobile phone, check to see that the mobile phone supports Bluetooth® features.

02 ···· 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.

03 ···· 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.

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

05 ···· To set Auto Connection, go to Setup   Bluetooth   Auto Connection Setting .

06 ···· The passkey needed to connect the mobile phone can be verified/changed at Setup   Bluetooth   Advanced Settings   Change Passkey .

07 ···· The car name can be set at Setup   Bluetooth   Advanced Settings   Device Information .

08 ···· If the Bluetooth® audio does not play, go to Setup   Bluetooth   Streaming Audio Setting . If the feature is set to Off , turn On and try again.

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

10 ···· 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.

11 ···· 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.

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

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

Basic Mode Screen

When no phones have been paired

Press the ☎ key on the steering remote controller or press the PHONE key   Press Yes

ℹ 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.
• The same Help section can be viewed by going to Info   Help   Bluetooth .

Press the Add New Device button Select car name   Enter passkey

Basic Mode Screen

From the Bluetooth® device, search for the car name and pair the device.
When searching from the Bluetooth® device, the car name is i40 and the default passkey is '0000'.

ℹ️ Information

- To learn more about searching from Bluetooth® devices and pairing, refer to the user's manual for your Bluetooth® device.
- Bluetooth® devices cannot be paired when the vehicle is in motion. For your safety, first park the vehicle to pair a Bluetooth® device.

When a phone is already paired

Press the [📞] key on the steering remote controller or the PHONE key
Press Yes Select the device from the device list Press 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.

Name	Description
1 Help	Help section related to pairing and connecting/disconnecting Bluetooth® devices and Handsfree phone features
2 Add New	Pair a new Bluetooth® device
3 Connect / Disconnect	Connect or disconnect a Bluetooth® device
4 Delete	Delete a paired Bluetooth® device
5 Delete All	Delete all paired Bluetooth® devices
6 Auto Connection	Set Bluetooth® auto connection when car ignition is turned on

When pairing additional device

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.

ℹ️ 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.

Basic Mode Screen

Using Bluetooth®

When there is a connected device

Press the [📞] key on the steering remote controller or the [PHONE] key on the head unit to display the following screen
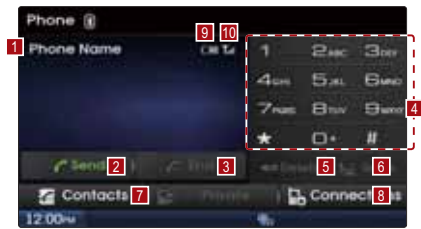
Enter the phone number you wish to call and press the [✆ Send] button.

ℹ️ 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.

| Name	Description
1 Info Display Window	Displays name of currently connected device
2 Send	If no number has been entered, switches to call history screen If a number has been entered, calls the number
3 End	If a number has been entered, deletes the number During a call, ends the current call
4 Dial Pad	Used to enter the phone number Press the hold [0] to enter a '+' Press the hold [1] ~ [9] to connect to the speed dial saved within the mobile phone
5 Delete	Deletes entered numbers one digit at a time
6 Save	Saves the entered phone number to your car contacts
7 Contacts	Displays contacts list screen
8 Connections	Displays the Bluetooth® device Connections screen
9 Remaining Battery	Displays the remaining battery for the connected Bluetooth® device
10 Call Signal Strength	Displays the call signal strength

During a call

The name of the other party is displayed if the number is saved within your contacts. If not, only the phone number is displayed. During a call, the other party's name/number and the call time are displayed.

ℹ️ Information

• The telephone number may not be displayed in some mobile phones.

Name	Description
1 Info Display Window	Displays other party's name/number If there is a call waiting, displays call waiting information
2 Switch	If there is a call waiting, switches the current call and connects the waiting call
3 End	Ends call
4 Dial Pad	Used to enter phone number
5 Contacts	Displays the Contacts screen
6 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
7 Outgoing Vol.	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® device

Status Bar Icons

Name	Description
	Mutes call volume
	Bluetooth® phone call state
	Mobile phone contacts or call history download status
	A state when Bluetooth® Handsfree and streaming Audio is all connected
	State when Bluetooth® streaming Audio is connected
	State when Bluetooth® Handsfree is connected

Using Bluetooth®

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 "+".

Name	Description
1 End	Deletes all entered numbers
2 Delete	Deletes entered numbers one digit at a time
3 Save	Saves the entered number

ℹ **Information**

• Most functions within AV mode and SETUP 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

ℹ **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.

ℹ **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

ℹ **Information**

• Calling through the call history is not possible when there is no call history or the Bluetooth® phone has not been connected.
• Within the call history screen, press the Download button to download the call history saved in your mobile phone into the vehicle.
• For more information on downloading call histories, refer to the "Call History Downloading Call History" section.

Using Bluetooth®

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.

ℹ️ 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.

ℹ️ 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.

ℹ️ 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.

Using Bluetooth

Using Bluetooth®

Ending a call

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

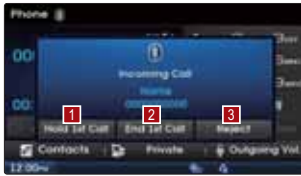The Bluetooth® handsfree call will end.

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 volume

While on a call Select [Outgoing Vol.] Set Outgoing Volume Press [OK]

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.

Using Bluetooth®

Contacts

Press 🔲Contacts   Select 🚗 or 📱

Press the 📱 button to display list of contacts downloaded from the mobile phone.

Press 🚗 tab to display the list of contacts saved within the car head unit.

ℹ Information

- Contacts can be divided into mobile phone contacts and car contacts. The 📱 contacts are the contacts downloaded from your Bluetooth® device while the 🚗 contacts are the contacts saved directly into the head unit.
- While it is possible to add and edit car contacts, it is not possible to add or edit the mobile contacts.
- For mobile phone contacts, up to 5,000 entries can be saved for each paired Bluetooth® device. For car contacts, up to 1,000 contacts can be saved.
- Mobile contacts can be copied and saved to the car contacts.
- While it is possible to search mobile contacts only when the corresponding Bluetooth® device is connected, car contacts can be searched even when the Bluetooth® device is not connected.
- All Audio Video Navigation system users can check or modify car contacts.
- If there are numerous list entries, selecting the list page area will move to the corresponding list page.
- It is possible to download contacts during a call or while operating Bluetooth® streaming audio mode.
- When downloading contacts, the 🔲 icon will be displayed within the status bar.
- It is not possible to download contacts when the contacts download setting has been turned off within your Bluetooth® device. In addition, some devices may require device authorization to download contacts. If downloading cannot be normally conducted, 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.

Mobile Contacts Screen Configuration
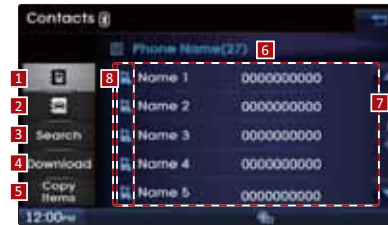
Name	Description
1 Mobile Contacts	Contacts downloaded from Bluetooth® device
2 Car Contacts	Car contacts directly saved into the head unit
3 Search	Search car contacts and mobile phone contacts (Search by name or number)
4 Download	Download contacts from Bluetooth® device
5 Copy List	Select numbers within mobile phone and copy to car contacts
6 Bluetooth® Device Name	Name of connected Bluetooth® device
7 List page	Displays total list pages and current list page (List page jump upon selecting scroll area)
8 Download source	Displays whether contacts were downloaded from the mobile phone or SIM

ℹ Information

- Mobile phone contacts can be searched only when a Bluetooth® device is connected.
- Up to 5,000 contacts from your Bluetooth® phone or SIM 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 will be stored even if the Bluetooth® device has been disconnected. (However, the contacts and call history saved to the phone will be deleted if the paired phone is deleted.)
- Mobile and car contacts could be lost depending on the state of the head unit. Always make sure to back up important data.

Using Bluetooth®

Downloading Mobile Phone Contacts

Press the Download button from the Contacts screen　Press Yes
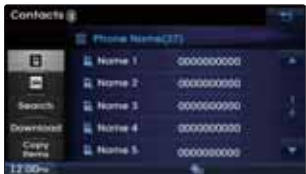
i *Information*

- 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 SIM and mobile phone are simultaneously downloaded.
- To change the contacts download settings, change the following menu setting.
  Setup　Bluetooth
  Contacts Download Setting

- 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.

Copying Mobile Phone Contacts

Press the Copy Items button from the Contacts screen　Select items to copy　Press Copy
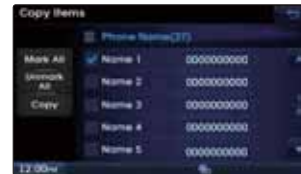
The Copy Items feature allows you to copy mobile contacts into the car contacts.

i *Information*

- Up to 1,000 contacts can be copied into car contacts.

Checking Mobile Contacts Details

Select the desired phone number from the mobile contacts list to check details about the number.
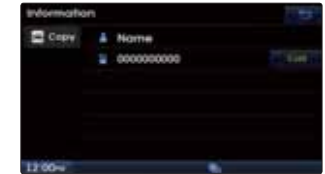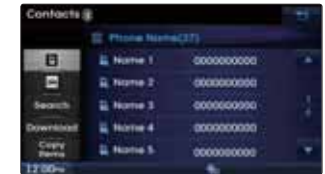
i *Information*

- Within the Info screen, press the Copy button to copy the number from your mobile contacts to car contacts. Press the Call button to call the selected number.

Using Bluetooth®

Car Contacts Screen Configuration

Name	Description
1 Mobile Contacts	Contacts downloaded from Bluetooth® device
2 Car Contacts	Car contacts directly saved into the head unit
3 Search	Search car contacts and mobile phone contacts (Search by name or number)
4 Add New	Add new phone number
5 Delete Items	Select and delete car contacts list
6 Car Name	Displays car device name
7 List page	Displays total list pages and current list page (List page jump upon selecting scroll area)

Adding New Car Contacts

Press Add New   Select Name   Enter name and save   Select Number   Select type, enter number and save   Press Done

ℹ Information

• Both the name and phone number (at least one number) must be entered to save a new contact.

• It is possible to add up to 1,000 contacts to the car device.

Using Bluetooth®

Deleting Selected Car Contacts

Press the Delete Items   Select the contact you wish to delete   Press Delete   Press Yes
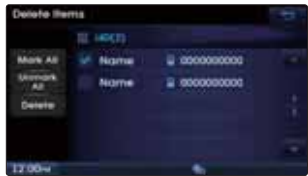
ℹ️ **Information**

• Press Mark All to select the entire list and press Unmark All to deselect the selected lists.

Viewing Car Contacts Information

This feature is used to select the corresponding number from the car contacts list and view number information.

Name	Description
1 Edit	Converts to the edit screen of the corresponding number
2 Delete	Deletes selected phone number list
3 Call	Calls the number

ℹ️ **Information**

• The Call button on the screen will be disabled if a Bluetooth® device is not connected.

Searching Contacts

Press the Search button to search from car or mobile contacts screen.
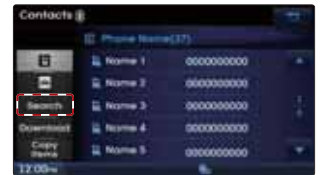
Using Bluetooth®

Search by Name

Press the ![Search by Name] button

Enter name and press ![Search]

Searching by Number

Press the ![Search by Number] button
Enter number and press ![Search]

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

Call History

Entering Call History Screen

Within the Phone screen, press the
![Send] button or the ![call] key on the steering remote controller.

> **ℹ Information**
> • The call history may not be saved in the call history list in some mobile phones.
> • Calls received with hidden caller ID will not be saved in the call history list.

Call History Screen Configuration

Name	Description
1 Dialed Call	Displays the outgoing call history list
2 Received Call	Displays the incoming call history list
3 Missed Call	Displays the missed call history list
4 Download	Downloads call history from mobile phone

Downloading Call History

Within the Call History screen, press the
![Download] button.
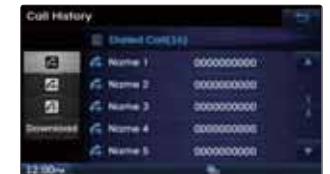
> **ℹ Information**
> • Up to 20 dialed, incoming, and missed call history lists can each be downloaded.

Using Bluetooth®

- The dialed/incoming time and call time information are not supported.
- Sorting all call histories by time is not supported.
- It is possible to download call history even during a call or during Bluetooth® streaming audio.
- When downloading call histories, the [icon] icon will be displayed within the status bar.
- It is not possible to commence download when the call history download feature is turned off within the Bluetooth® device. Also some devices may require device authorization upon attempting to download call history. If downloading cannot be normally conducted, 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.

Viewing Call History Information

Within the Call History screen, select the list.

Name	Description
1 Download	Download call histories from mobile phone
2 Call	Calls the number
3 Save	Saves the number to car contacts
4 Delete	Deletes the call history

Setting Bluetooth® Connection

Press the [Connections] button on the Phone screen.

Connections Menu

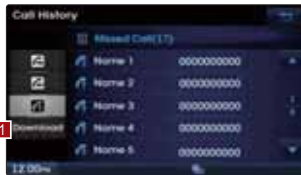| Function	Description
1 Help	Displays Bluetooth® Help screen
2 Add New	Pairs a new Bluetooth® device
3 Connect/ Disconnect	Connects/disconnects a Bluetooth® device
4 Delete	Deletes a paired Bluetooth® device
5 Delete All	Delets all paired Bluetooth® devices
6 Auto Connection	Sets Bluetooth® device auto connection when car ignition is turned on
7 Paired device list	Shows list of paired Bluetooth® devices
8 Streaming connection state	Shows Bluetooth® Streaming connection state
9 Handsfree connection state	Shows Bluetooth® Handsfree connection state

Using Bluetooth®

Connecting a Device

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

The Phone screen is displayed once a Bluetooth® Handsfree is connected while the Bluetooth® Audio screen is displayed once streaming Audio is connected.

Pairing a New Device

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

ℹ️ Information

• Bluetooth® features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth® device.
  • Answering and placing Bluetooth® Handsfree calls
  • Menu operation during call (Switch to Private, Switch to call waiting, Outgoing volume)
  • Download Call History
  • Download Mobile Contacts
  • Download SIM Contacts
  • Download and copy contacts to vehicle
  • Contacts/ Call History Auto Download
  • Bluetooth® device auto connection
  • Bluetooth® Audio

• 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 already connected.
• When a Bluetooth® device is being connected, the connection process cannot be canceled.
• Only Bluetooth® Handsfree and Bluetooth® audio related features will operate within this system.
• Normal operation is possible only for 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 for various reasons, such as being out of range, turning the device OFF, or a Bluetooth® communication error, 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.
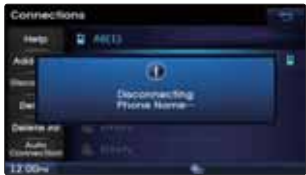
Setup   Bluetooth
Advanced Settings
Restore Factory Settings

Disconnecting a Device

Select the device you wish to disconnect
Press Disconnect   Press Yes

Using Bluetooth

Using Bluetooth®

Deleting a Device

Select the device you want to delete Press Delete   Press Yes

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

ℹ️ **Information**
• If a paired phone is deleted, its call history and contacts lists will also be deleted.

Setting Auto Connection

Press the Auto Connection button Select the desired option   Set and press Done
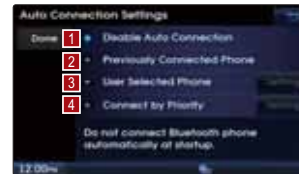
If auto connection is turned on, a Bluetooth® device will automatically be connected according to the set option when the car ignition is turned on.

Name	Description
1 Disable Auto Connection	Disables auto connection
2 Previously Connected Phone	Auto connection with the previously connected Bluetooth® phone
3 User Selected Phone	Automatically connects to a user selected Bluetooth® device
4 Connect by Priority	Automatically connects according to the set Bluetooth® phone priority

ℹ️ **Information**
• The Auto Connection button is a shortcut menu to go to Setup   Bluetooth   Auto Connection Settings .
• If you press the Setting button next to the User Selected Phone and Connect by Priority options, you can designate the phone you wish to connect or set the phone priority.

Using Bluetooth

MEMO

5 Information

- GPS Information
- Help

GPS Information

About GPS

GPS (Global Position System) :
GPS is a system developed and operated by the United States that determines the user's current position (longitude • latitude, etc) by using 4 or more satellites.
This system is used with related GPS information, various sensors, road map data, and other related information to provide navigation services.

> ℹ **Information**
>
> • For continued map updates, information gathering and surveys are conducted continuously to monitor road changes or new road constructions. Nonetheless, roads, facilities, and fares are under constant change and it is impossible to completely remove all errors, including road updates, names, facilities, and fares. Please keep such fact in mind when using GPS.

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

When GPS info cannot be used

GPS info 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 only two or less satellite signals can be received.
• Errors that occur in such conditions cannot be corrected.

Viewing GPS Info

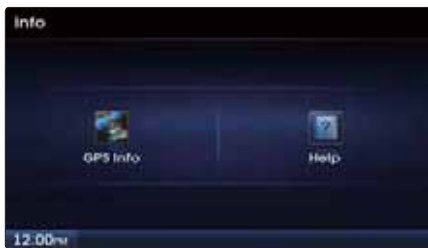Press the 🛈⚙ Key   Select 🗔 Info
🖼 GPS Info

The GPS reception and vehicle speed information are displayed.

Help

Viewing Help

Press the ⎡ i ⚙ ⎦ Key   Select 🔲 Info
🔲 Help

Help sections on the Navigation and Bluetooth® features can be selected and viewed.

6 Other Features

- Climate Mode
- PGS

Climate Mode

Cautions upon operating Mode

Press the CLIMATE key to display the Climate status bar.

ℹ️ Information

• When operating the Multimedia or Navigation mode, press a Climate related key, such as TEMP , AUTO or A/C to display the Climate status bar at the top of screen.

Basic Mode Screen

Name	Description
1 Driver-side temperature	Displays the driver-side temperature
2 AUTO Display	Displays whether the heating/cooling auto function is on/off
3 A/C Display	Displays whether the a/c is on/off
4 Fan level Display	Displays the current fan level
5 Fan Direction Display	Displays the set fan direction
6 DUAL Display	Enables the driver/passenger temperature to be set independently
7 Passenger-side temperature	Displays the passenger-side temperature

Climate Mode

Basic Operation

Controlling driver/passenger temperature simultaneously

Press the DUAL key to turn the DUAL setting off.

When DUAL is disabled, the driver-side and passenger-side temperatures are controlled simultaneously.

ℹ *Information*
- The cabin temperature can be adjusted in 0.5 ℃ units within a range of 17.5 ℃ ~ 31.5 ℃.
- The temperature will be displayed as LOW once it is adjusted below 17.5 ℃ and HIGH once it is adjusted above 31.5 ℃.

Controlling driver/passenger temperature independently

Press the DUAL key to turn the DUAL setting back on.

When DUAL has been disabled, the driver-side and passenger-side temperatures can be controlled independently.

ℹ *Information*
- When setting the driver-side temperature with DUAL on, the DUAL button will turn OFF if the driver-side temperature is set to LOW or HIGH.

Setting Fan Direction

Press the fan keys to change the fan direction.
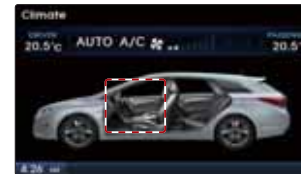
ℹ *Information*
- When setting the driver-side temperature with DUAL on, the DUAL button will turn OFF if the driver-side temperature is set to LOW or HIGH.

Climate Mode

Climate Mode

Setting Fan Level

Press the ⟨⟩ key to change the fan level.

ⓘ Information

- If the fan level is changed while in AUTO mode, AUTO mode will turn off.
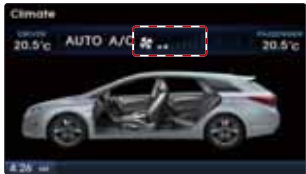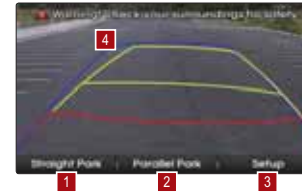
PGS

Screen Configuration

PGS (Parking Guide System) is a system which provides monitored parking guidance. The PGS will operate automatically when the ignition key is turned on and the gear is set to R (Reverse). The PGS will stop operating when set to a different gear

1	Straight Park	Moves to straight parking mode
2	Parallel Park	Moves to straight parking mode
3	Setup	Displays setup screens to set voice parking, guideline displays, and steering sync features
4	Steering sync guidelines	Line displayed to help with parking guidance that displays the car position and steering angle

Straight Parking

The straight parking trace is displayed in the following manner.
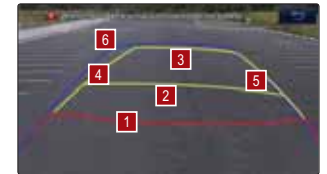
1	Red line	0.5m from the rear bumper
2	Yellow line	1.0m from the rear bumper
3	Yellow line	3.0m from the rear bumper
4	Left side of Yellow line	trace of driver-side wheels
5	Right side of Yellow line	trace of passenger-side wheels
6	Blue line	trace showing center of steering

PGS

PGS

Straight Parking is comprised of 2 steps.
· In step 1, move the vehicle to a position to begin straight parking. Then, select the Straight Park menu and adjust the handle to the proper space.
· In step 2, the screen will display the steering sync trace and steering center trace upon placing the car in reverse.

Parallel Parking

The parallel parking trace is displayed in the following manner.

1	Red line	0.5m from the rear bumper
2	Yellow line	3.0m from the rear bumper
3	Green line	6.0m from the rear bumper

Parallel Parking is comprised of 3 steps.
· In step 1, select the Parallel Park menu and move the vehicle to a position to begin parallel parking.
· Steer the handle to the proper position to display the direction guidance line. The parking guidance line will blink until the green extension line reaches the green parking guidance line. Adjust the handle to within a set range to stop the blinking. Step 2 will start once you place the gear in reverse.
· Step 2 is a step in which to maintain the handle angle as proposed in step 1 and drive in reverse into the parking spot.
· Maintain the steering angle and continue to reverse. The green guidance line will be displayed. Drive in until the parking lot lines matches with the green guidance lines.

· After stopping the vehicle, step 3 will start once the handle is turned in the reverse direction to a set angle.
· Step 3 is the same as Straight Parking.

Settings

Press the On button to set 3 parking guidance features.

· Voice Parking Guidance: Sets whether to turn on the voice guidance supplied upon straight and parallel parking.
· Display Guidelines : Sets whether to turn the guidelines on/off.
· Steering sync guidelines : Sets whether to turn steering sync trace on/off.

MEMO

7 Setup

Setup

Basic Mode Screen

Name	Description
1 Sound	Sets sound related settings
2 Display	Sets display related settings
3 Media	Sets Media related settings
4 Bluetooth®	Sets Bluetooth® related settings
5 Navigation	Sets various settings found within Navigation mode
6 Edit My Places	Set/Edit My Places within Navigation Mode
7 Clock	Sets current time and clock display
8 Picture Frame	Sets screen displayed when device is turned off
9 Keyboard	Sets the keyboard type
10 Language	Sets language for use within device
11 System Update	Checks system software version and receive updates
12 Display Off	Turn device display on/off (The device power will not be turned off)
13 Close	Close Setup menu screen

Starting Mode

Press the SETUP key   Press Setup

Within Setup, you can check and change the settings for all features found within the Audio Video Navigation system.

Before Use

Using Setup

Sound

Press the ⬛ Setup button Press
👤 Sound

Setting Balance/Fader

Press the 👤 Sound button Press
Fader/Balance Set and press
Done

Use the ▲ / ▼ / ◀ / ▶ buttons to
move the cursor on the control screen to
the desired position.
Press Center to restore sound to the
center position.

ⓘ *Information*
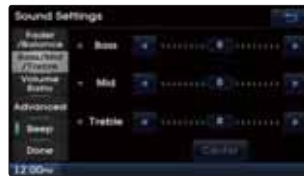• The Balance/Fader settings allows you
to set the sound position. For example,
you can set the sound close to the
driver-seat so that the volume is rela-
tively lower in the passenger or rear
seats.

Setting Bass/Mid/Treble

Press the 👤 Sound button Press
Bass/Mid/Treble Set and press
Done

Use the ◀ or ▶ cursors to adjust the
Bass/Mid/Treble settings.

ⓘ *Information*
• Press the Center button to restore the
Bass/Mid/Treble to the center position.

Setting Volume Ratio

Press the 👤 Sound button Press
Volume Ratio Set and press Done

These options are used to set the volume
ratio by selecting from Navigation Prior-
ity/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 naviga-tion guidance are output in identical volume

ⓘ *Information*
• The rear seat speaker will maintain its
audio volume regardless of which vol-
ume ratio is selected.

Speed Dependent Volume Control

Press the 👤 Sound button Press
Advanced Turn the feature On
Set and press Done

The volume level is controlled automati-
cally according to the vehicle speed.

Using Setup

Setting Beep

Press the 🔊 Sound button   Press
▌Beep   Set and press Done

Each press of this button turns the BEEP tone om/off.

ℹ Information
• When the light on the left side of the button is turned on, this indicates that the BEEP tone is active. Press the ▌Beep button again to turn off the BEEP tone.
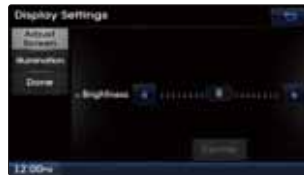
Display

Press the 🖥 Setup button   Press
🖥 Display

Adjusting Screen

Press the 🖥 Setup button   Press
Adjust Screen   Set and press Done

Adjusting audio mode screen

Adjusting video mode screen

Use the ◀ or ▶ to adjust the display brightness and color.

Mode	Description
1 Audio mode	Can adjust only brightness
2 USB Video	Can adjust brightness, hue, contrast, and saturation

ℹ Information
• There are differences in the categories that can be adjusted depending on the currently playing mode.
• In case of AUX mode PAL input, the Saturation cannot be adjusted.

Setting Illumination

Press the 🖥 Display button   Press
Illumination
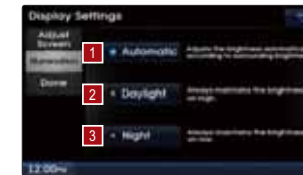
Adjusting audio mode illumination

Adjusting video mode 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

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

Using Setup

Using Setup

Setting Screen Ratio

Press the ⬚ Sound button Press
Ratio Set and press Done

The screen ratio can be set in video modes, such as DVD/USB VIDEO/AUX.

Name	Description
1 Normal	4:3 screen display
2 Full	Full screen display
3 Wide	16:9 wide screen display

ℹ 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 screen) is selected.

Media

Press the ⬚ Setup button Press
⬚ Media

Changing DVD Language

Press the DVD button Press
Voice Set and press Done

The method of changing the voice/caption/menu language is the same. Follow the steps for changing the voice language to change the caption or menu language.

Changing to Other Language

Press the DVD button Press
Voice Press Other Set and
press Done

Press Other button to set a voice language other than one of the displayed languages. Enter the voice language code on the screen to display the desired language.

Once a correct language code has been entered, language selection screen will be restored and the set language will be displayed.

Press Done button to apply changes. The DVD will restart from the beginning.

Using Setup

Using Setup

Information

- For more information on language codes, refer to language code section in a later section within the manual.
- If the selected language is not included within the disc or the disc does not support the method of setting as described in this manual, the language will not automatically change.
- DVD Setup is not used to change the settings for the currently playing DVD. It is a function used to set characteristics of the DVD player. After completing setup, the DVD will automatically restart from the beginning to apply changes.

DivX® VOD

Press the `DivX® VOD` button Press `Registration`

This menu is used to register products that support the DivX feature.

Bluetooth®

Press the `Setup` button Press `Bluetooth`

These menus allow you to set Bluetooth® related features.

Name	Description
1 Auto Connection Settings	Sets Bluetooth® device auto connection when car ignition is turned on between the vehicle and Bluetooth® devices
2 Contacts Sync Setting	Automatically downloads the mobile phone contacts and call histories to the car upon connecting Bluetooth®
3 Contacts Download Setting	Sets which Contacts to download from between Mobile or SIM contacts
4 Streaming Audio Setting	Sets whether to use the streaming audio feature
5 Advanced Settings	Sets Bluetooth® related settings, including Change Passkey, Device Information, Delete All Call History, Delete All Car Contacts, and Restore Factory Settings

Auto Connection Settings

Press the `Bluetooth` button `Auto Connection Settings` Set and press `Done`

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 Disable Auto Connection	Disables auto connection
2 Previously Connected Phone	Automatically connects the previously connected Bluetooth® device
3 User Selected Phone	Automatically connects to the set Bluetooth® device
4 Connect by Priority	Automatically connects according to the set Bluetooth® phone priority

Information

- If you press the `Setting` button next to the `User Selected Phone` and `Connect by Priority` options, you can designate the phone you want to connect or set the phone priority.

Using Setup

Contacts Sync Setting

Press the `Bluetooth` button Press `Contacts Sync Setting` Set and press `Done`

This feature automatically downloads the mobile phone contacts and call histories to the car upon Bluetooth® connection.
If you do not wish to use Contacts Sync, turn the feature off.

ℹ️ **Information**

• This feature may not be supported in some Bluetooth® devices.

Contacts Download Setting

Press the `Bluetooth` button Press `Contacts Download Setting` Set and press `Done`

You can select the contacts you wish to download.

Name	Description
1 Mobile Contacts	Download contacts saved in your mobile phone
2 SIM Contacts	Download contacts saved in SIM

ℹ️ **Information**

• When the mobile phone contacts and SIM contacts are both selected, the mobile phone contacts will be downloaded first.

Streaming Audio Setting

Press the `Bluetooth` button Press `Streaming Audio Setting` `Done`
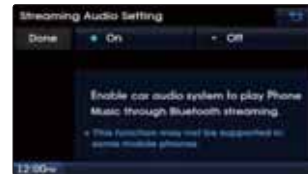
When streaming audio is turned On, you can play music files saved in your Bluetooth® device from the car.

ℹ️ **Information**

• This feature may not be supported in some Bluetooth® devices.

Advanced settings

Press the `Bluetooth` button Press `Advanced Settings`

Advanced Settings allow you to control various additional Bluetooth® related settings.

Name	Description
1 Change Passkey	Changes the passkey used to authenticate Bluetooth® device
2 Device Information	Searches car Bluetooth® device information and change device name
3 Delete All Call History	Deletes all call history of connected Bluetooth® device
4 Delete All Car Contacts	Deletes all car contacts
5 Restore Factory Settings	Restores Bluetooth® factory state settings

Change Passkey

Press the `Bluetooth` button Press `Advanced Settings` Press `Change Passkey` Set and press `Done`

This feature is used to change the passkey required to connect a Bluetooth® device to the car.

ℹ️ **Information**

• The default passkey is 0000.
• The `Advanced Settings` features cannot be used while the vehicle is in motion.
• To operate these features, first park the vehicle in a safe location.

Using Setup

Using Setup

Device Information

Press the `Advanced Settings` button
Press `Device Information`

This feature allows you to check device information.

ℹ Information _____

• Press the `Change Name` button to change the name of the device.
• The default car name is set to i40.

Delete All Call History

Press the `Advanced Settings` button
Press `Delete All Call History`

This feature allows you to delete the entire call history for the connected Bluetooth® device.

ℹ Information _____

• If there are no call histories or a Bluetooth® device is not connected, the `Delete All Call History` button will be disabled.

Delete All Car Contacts

Press the `Advanced Settings` button
Press `Delete All Car Contacts`

This feature allows you to delete all contacts saved in the car.

ℹ Information _____

• Only contacts saved in the car are deleted. Contacts downloaded from the mobile phone will not be deleted. In order to delete the contacts downloaded from your mobile phone, go to the `PHONE` `Connections` screen and delete the paired device.
• Upon deleting a paired device, the call history and contacts lists saved to the head unit will also be deleted.

Restore Factory Settings

Press the `Advanced Settings` button
Press `Restore Factory Settings`

Turning on this feature will erase all paired phones and allows you to restore Bluetooth® related settings and data to the default factory settings.

ℹ Information _____

• The `Restore Factory Settings` feature cannot be used when a Bluetooth® device is connected. To use this feature, first disconnect the Bluetooth® device.
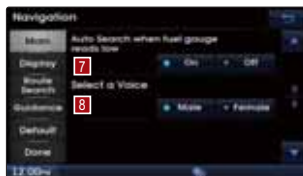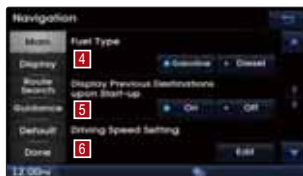
Using Setup

Navigation

Press the [Setup] button   Press
[Navigation]

These menus allow you to set Navigation related settings.

Main

Press the [Navigation] button
Press [Main]   Set and press [Done]

This menu is used to set general navigation options.

Name	Description
1 Unit	Select between mile or km
2 Estimated Time of	Set whether to display estimated time of arrival or travel on the route info display screen
3 Distance and Time to	Set whether to display distance and time to destination or to waypoint on the route info display screen
4 Fuel Type	Set vehicle fuel type.
5 Display Previous Destinations upon Start-up	Set whether to display the previous destinations popup upon starting system
6 Driving Speed Setting	Set basic info to calculate estimated arrival time to destination or waypoint
7 Auto Search when fuel gauge reads low	Automatically search for gas stations when fuel gauge reads low
8 Select a Voice	Select between Male or Female Voice

i **Information**
- When you have finished with the settings, press the [Done] button to save changes.

Driving Speed Setting
Press the [Edit] button within the "Driving Speed Setting" menu to set the estimated driving speed for residential roads, main streets, and expressways. The set driving speed is applied to calculate the estimated time to reach the destination or waypoint.

The changed driving speed is used to calculate the estimated time until the destination or waypoint.

Press the [Default] button to reset the driving speed settings.

i **Information**
- The default values for Residential, Main Streets, and Expressways are 30km, 60km, and 100km, respectively.

Display

Press the [Navigation] button
Press [Display]   Set and press [Done]

This menu is used to set the symbols and indicators displayed within Navigation mode.

Name	Description
1 Route Indicator Line	From the 4 route indicator line colors, set the color for use
2 Display One-way Street Symbol	Set whether to display the one-way street symbol on the map
3 Trace	Set whether to trace the route passed by the vehicle or whether to reset

i **Information**
- When you have finished with the settings, press the [Done] button to save changes.

Route Indicator Line

Press the Edit button within the "Route Indicator Line" menu to change the color of the route indicator line.

Route Search

Press the Navigation button
Press Route Search Set and press Done

This menu is used to set route search related options.

Name	Description
1 Use Alternative Route Search	Set whether to first display alternative routes upon conducting route search
2 Display Route Options after Re-Calculation	Set whether to display the pop-up screen that allows changes to route options upon route recalculation

Guidance

Press the Navigation button
Press Guidance Set and press Done
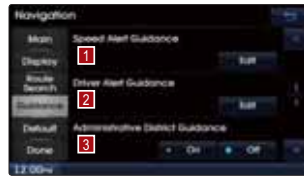
This menu is used to set options on speed alerts, driver alerts and administrative district guidance.

Name	Description
1 Speed Alert Guidance	Set options related to various camera alerts
2 Driver Alert Guidance	Set options related to speed bumps, curves, and merges
3 Administrative District Guidance	Set options to provide region names upon driving within administrative district boundaries

Speed Alert Guidance

To change the "Speed Alert Guidance" option, press the Edit button within the "Speed Alert Guidance" menu.

Name	Description
1 Guidance Setup	Turns alarm sound on/off upon using Speed Trap/Overspeeding Alarm
2 Default	Sets camera guidance alarm distance

Using Setup

Driver Alert Guidance

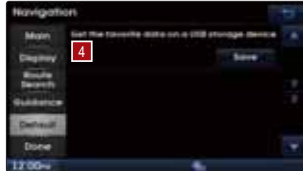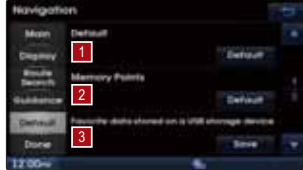To set the Driver Alert Guidances, option, press the `Edit` button within the "Driver Alert Guidance" menu.

ℹ Information _____

- Alerts provided within "Driver Alert Guidance" may differ depending on actual road conditions.

Reset (Default)

Press the 🔘 `Navigation` button
Press `Default`   Set and press `Done`

This menu is used to reset saved changes and user preferences.
Favorites data can be saved onto a USB or downloaded from a USB.

Name	Description
1 Default	Resets all set changes back to the default state
2 Memory Points	Resets all saved memory point information
3 Favorite data stored on a USB storage device	Save favorites to USB memory
4 Get the favorite date on a USB starage device	Used to download favorites saved in USB memory to the head unit

ℹ Information _____

- If the settings of an option are reset, then all settings will be restored to the default factory state.

My Places

Press the 🔘 `Setup` button   Press `Edit My Places`

These menus allow you to set My Places related settings used in the Navigation.

My Places

Press the 🔴 `Edit My Places` button
Press `My Place`   Set and press `Done`

From the My Places list, select the desired menu to either add, delete or edit My Places.
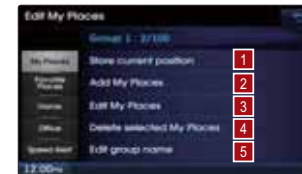
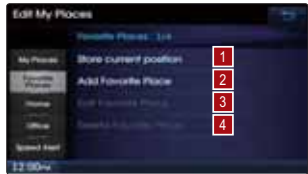| Name	Description
1 Store current position	Add the current vehicle position as a My Place
2 Add My Places	Add a My Place by using search functions
3 Edit My Places	Edit information pertaining to saved My Places, such as name, location, and telephone number
4 Delete selected My Places	Delete one or all saved My Places
5 Edit Group name	Edit name of corresponding group

ℹ Information _____

- By default, names of folders have been set as "Group".

Using Setup

Favorite Places

Press the [Edit My Places] button
Press [Favorite Places]

A total of 4 Favorite Places can be saved. Favorite Places can be selected at the bottom of the Destination Search main screen.

Name	Description
1 Store current position	Adds the current position as a Favorite Place
2 Add Favorite Place	Add a Favorite Place by using search functions
3 Edit Favorite Place	Edit information pertaining to saved Favorite Places, such as name, location, and telephone number
4 Delete Favorite Place	Delete one or all saved Favorite Places

ℹ️ **Information**

• If Favorite Places have not been added, the [Edit Favorite Place] and [Delete Favorite Place] buttons will be disabled.

Home, Office

Press the [Edit My Places] button
Press [Home] or [Office]

One Home and Office can each be saved. The set Home and Office positions can be selected at the bottom of the Destination Search main screen.

ℹ️ **Information**

• If the Home and Office has not been set, these buttons will be displayed as disabled within the Destination Search screen.

Speed Alerts

Press the [Edit My Places] button
Press [Speed Alert]   Set and press [Done]

Within [Edit Speed Alert] screen, it is possible to edit names of saved Speed Alerts.

Clock Settings

Press the [Setup] button   Press [Clock]

These menus allow you to set clock related settings.

Using Setup

Clock Setting

Press the Clock button Press Time   Set and press Done

This menu is used to set the time used within the Audio Video Navigation system.

Name	Description
1 GPS Time	Displays time according to the received GPS time
2 Daylight Saving Time	Turns on/off daylight saving time feature
3 Time Format	Converts the time system shown when within digital clock between 12 hour / 24 hours

Information
• When Daylight Savings Time is turned on, the clock is moved back one hour.

View

Press the Clock button Press View   Set and press Done

This menu is used to set the clock type and date display within the Audio Video Navigation system.

Name	Description
1 Clock Type	Changes Clock Type (Digital/ Analog)
2 Date Display	Sets whether to display date within Clock screen

⚠ Caution
• The time may not be properly displayed if the GPS time is not connected.

Picture Frame

Press the Setup button Press Picture Frame   Set and Press Done

This menu is used to select the screen displayed when the system power is turned off.

Name	Description
1 Clock	Displays the clock on the screen when the system power is turned off
2 Image	Displays the image saved from the USB on the screen when the system power is turned off
3 No Image	No image is displayed when the system power is turned off

Information
• When the picture frame is set to "Image', you can set an image saved within a USB as the picture frame by pressing the Browse button.

Keyboard

Press the Setup button Press Keyboard   Set and Press Done

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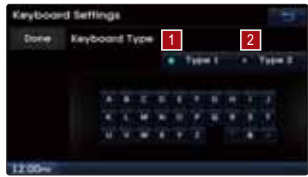
This option allows you to change the type of keyboard used within the system.

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

ℹ️ **Information**
• The set keyboard will be applied to all input modes across the entire system.

Language

Press the [🌐 Language] button   Set and press [Done]

ℹ️ **Information**
• If the Language is set to English, then Voice Recognition will not operate.

System Update

Press the [🔧 Setup] button   Press [🔧 System Update]   Press [Update]   Press [OK]

After inserting the SD card with the update file, press [OK] to start the update. Once updating is complete, the system will automatically restart.

ℹ️ **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.

⚠️ **CAUTION**
• Please use only the SD card that was included with the vehicle purchase.
• The use of a separately purchased SD card may result in damage due to heat related deformation.
• Product malfunctions caused by the use of separately purchased SD cards shall not be covered within the product warranty.
• Repeatedly connecting/disconnecting the USB in a short period of time may cause damage to the device.

Using Setup

Display Off

 Setup button   Press
 Display Off

Press the Display Off button to turn off the display. Touch anywhere on the touch screen to turn the display back on.

ⓘ *Information*

• This feature is used to listen to only sound and can be very helpful in preventing glare from the screen when driving at night.

• Even when the display is off, sound will be played.

8 Appendix

- DVD language code
- Before thinking there is a product defect
- Troubleshooting
- FAQ
- Index

Appendix

DVD language code

Code	Nation	Code	Nation	Code	Nation	Code	Nation
0101	Afar	0625	Frisian	1222	Latvian	1912	Slovenian
0102	Abkhazian	0701	Irish	1307	Malagasy	1913	Samoan
0106	Afrikaans	0704	Scots	1309	Maori	1914	Shona
0113	Amharic	0712	Gallegan	1311	Macedonian	1915	Somal
0118	Arabic	0714	Guarani	1312	Malayalam	1917	Albanian
0119	Assamese	0721	Gujarati	1314	Mongolian	1918	Serbian
0125	Aymara	0801	Hausa	1315	Moldavian	1919	Swati
0126	Azerbaijani	0809	Hindi	1318	Marathi	1920	Sesotho
0201	Bashkir	0818	Croatian	1319	Malay	1921	Sundanese
0205	Belarusian	0821	Hungarian	1320	Maltese	1922	Swedish
0207	Bulgarian	0825	Armenian	1325	Burmese	1923	Swahili
0208	Bihari	0901	Interlingua	1401	Nauru	2001	Tamil
0209	Bislama	0905	Interlingue	1405	Nepali	2005	Telugu
0214	Bengali	0911	Inupiak	1412	Dutch	2007	Tajik
0215	Tibetan	0914	Indonesian	1415	Norwegian	2008	Thai
0218	Breton	0919	Icelandic	1503	Occitan	2009	Tigrinya
0301	Catalan	0920	Italian	1513	Oromo	2011	Turkmen

Code	Nation	Code	Nation	Code	Nation	Code	Nation
0315	Corsican	0923	Hebrew	1518	Oriya	2012	Tagalog
0319	Czech	1009	Yiddish	1601	Punjabi	2014	Tswana
0325	Welsh	1001	Japanese	1612	Polish	2015	Tongo
0401	Danish	1022	Javanese	1619	Pushto	2018	Turkish
0405	German	1101	Georgian	1620	Portuguese	2019	Tsonga
0426	Bhutani	1111	Kazakh	1721	Quechua	2020	Tatar
0512	Greek	1112	Greenlandic	1813	Romance	2023	Twi
0514	German	1113	Cambodian	1814	Kirundi	2111	Ukrainian
0515	Esperanto	1114	Kannada	1815	Romanian	2118	Urdu
0519	Spanish	1115	Korean	1821	Russian	2126	Uzbek
0520	Estonian	1119	Kashmiri	1823	Kinyarwanda	2209	Vietnamese
0521	Basque	1121	Kurdish	1901	Sanskrit	2215	Volapuk
0601	Persian	1125	Kirghiz	1904	Sindhi	2315	Wolo
0609	Finnish	1201	Latin	1907	Sangho	2408	Xhosa
0610	Fijian	1214	Lingala	1908	Croatian	2515	Yoruba
0615	Faroese	1215	Laotian	1909	Sinhalese	2608	Chinese
0618	French	1220	Lithuanian	1911	Slovak	2621	Zulu

Before thinking there is a product defect

The current position as shown on the navigation may difer from the actual position under the following conditions.

The following occurrences are not malfunctions

- When driving on Y-shaped roads with narrow angles the current position may be displayed in the opposite direction
- The current position may be displayed on the opposite side of the road
- Within city streets, the current position may be displayed on the opposite side or on an off-road position
- When changing the zoom level from maximum to a different level, the current position may become displayed on a different road
- If the vehicle is loaded onto a ferry or a car transport vehicle, the current position may become stalled on the last position prior to loading if the battery is removed
- The current position may be displayed differently in the following conditions
- If the battery terminal is removed while driving on a spiral-shaped road
- When driving in mountain regions with sharp turns or sudden brakes
- When entering a road after passing an underground parking structure, building parking structure, or roads with many rotations
- When driving in heavy traffic with frequent go/stops
- When driving under slippery conditions, such as heavy sand, snow, etc
- When driving on spiral-shaped roads
- When the tires have recently been replaced (Especially upon use of spare or studless tires)
- When using tires of improper size
- When the tire pressure for the 4 tires are different

The following occurrences are not malfunctions

- When the replacement tire is worn or used (Especially studless tires having passed a 2nd seasons)
- When driving near high-rise buildings
- When a roof carrier has been installed
- When a long distance route is calculated while driving on an expressway. In such cases, continued driving will automatically enable the system to conduct map matching or use updated GPS information to provide the current position. (In such cases, up to several minutes may be required.)

Correct route guidance may not occur due to search conditions or driving position.

The following occurrences are not malfunctions

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

Appendix

The following may occur after conducting route calculation.

The following occurrences are not malfunctions

• Guidance may be given to a position differing from the current position when turning at an intersection
• When driving in high speeds, route recalculation may take a longer period of time
• Route guidance signaling for a u-turn may occur in some No u-turn intersections
• Route guidance signaling entrance into a no enter zone many occur (No enter zone, road under construction, etc.)
• Guidance may be given to a position removed from the actual destination if roads to reach the actual destination do not exist or are too narrow
• Faulty voice guidance may be given if the vehicle breaks away from the designated route (ex: if a turn is made at an intersection while the navigation provided guidance to go straight)

Before thinking the product has malfunctioned

1. Errors that occur during the operation or installation of this device may be mistaken as a device malfunction.
2. If you are having problems with the device, try the suggestions listed below.
3. If problems persist, contact your point of purchase or the nearest service center.

Problem	Possible Cause
There are small red, blue, or green dots on the screen	• Because the LCD is manufactured with technology requiring high point density, a pixel deficiency may occur within 0.01% of total pixels
The sound or image is not working	• Has the Switch for the vehicle been turned to [ACC] or [ON]? • Has the SYSTEM been turned OFF?
The video is being displayed but sound is not working	• Has the volume been set to a too low? • Has the volume been set to mute?
When the power is turned on, the corners of the screen are dark	• The display looking somewhat darker after prolonged periods of use is a normal phenomenon within LCD panels and do not signal a malfunction. • If the screen is very dark, contact your point of purchase or the nearest service center
Sound is working from only one speaker	• Is the FAL.BAL control or volume set to only side?
Sound and video do not work in AUX mode	• Is the audio and video connector fully inserted into the AUX terminal?
The external device is not working	• Is the external device connected with a standard connector cable?
Upon turning power on, the most recent mode screen is not displayed	• Within modes that play files by reading external sources, such as discs, USB, iPod, or Bluetooth® streaming mode, the most recently played mode screen prior to turning off power may not properly load • If there is no disc or the corresponding device is not connected, the mode operated prior to the most recent mode will operate • If the previous mode still cannot be properly played, the mode operated prior to that will operate

Troubleshooting

Problem	Possible Cause	Countermeasure
The power does not turn on	The fuse is disconnected	• Replace with a suitable fuse. • If the fuse is disconnected again, please contact your point of purchase or service center
	Device is not properly connected	• Check to see that the device has been properly connected
The system does not play	The disc has not been inserted or has been inserted upside down	• Insert the disc properly so that the sides are facing the correct direction
	The disc has been contaminated	• Wipe away dirt and other foreign substances from the disc
The system does not play	The vehicle battery is low	• Charge the battery. If the problem persists, contact your point of purchase or service center
	A disc not supported by the device has been inserted	• Insert a disc which is supported by the device
	A disc with a region code not supported by the device has been inserted	• The region code for the device is code "2" • Use a DVD which has the region code of "2" or "ALL"
The image color/tone quality is low	The brightness, saturation, hue, and contrast levels are not set properly	• Properly adjust the brightness, saturation, hue, and contrast levels through Display Setup

Problem	Possible Cause	Countermeasure
Video does not work	The brightness level is set to the lowest level The connection is not proper	• Adjust the brightness to a higher level. • Check to see that the device has been properly connected
Sound does not work	• The volume level is set the lowest level. • The connection is not proper • The device is currently fast-forwarding, rewinding, scanning, or playing in slow mode	• Adjust the volume level • Check to see that the device has been properly connected • The sound will not work when the device is fast-forwarding, rewinding, scanning, or playing in slow mode
The sound or video quality is low	• The disc is dirty or scratched • Vibration is occurring from where the conversion switch has been installed • Image color/one quality is low	• Wipe off water or dirt from the DISC. Do not use a disc which has been scratched • The sound may be short-circuited and the image distorted if the device vibrates. The device will return to normal once vibrations stop • Aging of the video display and deterioration in performance may cause certain quality degradations

Appendix

Problem	Possible Cause	Countermeasure
Subtitles do not work	• Subtitles are not included in the currently playing DVD. • The subtitle language has been set to "off"	• The subtitles cannot be played • Set the subtitle language on the desired language
Subtitles do not turn off	• The DVD has disabled the hide subtitle function	• The subtitle cannot be turned off
The sound or subtitle language does not change	• Only one language is included in the currently playing DVD. • The currently playing DVD only supports one language	• The language cannot be changed if the disc does not support multi-languages • The language cannot be changed
The selected sound or subtitle language cannot be used	• An aspect ratio which is not supported by the currently playing DVD is selected	• A language not supported by the DVD cannot be played
The USB does not work	• USB memory has been contaminated • A separately purchased USB HUB is being used • A USB extension cable is being used	• Use after formatting the UBS into FAT 12/16/32 format • Remove any foreign substances on the contact surface of the USB memory and multimedia terminal • Directly connect the USB memory with the multimedia terminal on the vehicle

Problem	Possible Cause	Countermeasure
The USB does not work	• A USB which is not a Metal Cover Type USB Memory is being used • An HDD type, CF, SD Memory is being used • There are no music files which can be played	• Directly connect the USB memory with the multimedia terminal on the vehicle • Use a standard USB memory device • Use a standard USB memory device • Only MP3, WMA file formats are supported. Please use only the supported music file formats
The iPod is not recognized even though it has been connected	• There are no titles which can be played • The iPod firmware version has not been properly updated • The iPod device does not recognize downloads	• Use iTunes to download and save MP3 files into the iPod • Use iTunes to update the firmware version and reconnect the iPod with the device • Reset the iPod and reconnect with the device

ℹ Information

• While operating the device, if an abnormality occurs that cannot be corrected with the above described measures, press the RESET key to reset the system.
• press and hold the RESET key (over 0.8 seconds). The device power will turn off and the system will reset.

FAQ

About pairing mobile phones

Q I cannot pair my mobile phone. What is the cause?

A Check to see that the mobile phone supports Bluetooth® function. If your phone is a Bluetooth® phone, then check to see whether the Bluetooth setting within your phone been is set to 'Hidden'. If the device is set to hidden, please un-hide the device (set to unhidden state).

Q What is the difference between pairing a mobile phone and connecting a mobile phone?

A Pairing occurs through authenticating the head unit and mobile phone. Mobile phones paired to the head unit can be connected and disconnected until the paired mobile phone is deleted from the system. Bluetooth® Handsfree features, such as making/answering calls or managing Contacts, are supported only in mobile phones connected with the head unit.

Q What is a Passkey?

A A passkey is the password used to authenticate the connection between the head unit and mobile phone. The passkey only needs to be entered once when pairing the mobile phone for the first time.
The initial passkey is 0000. The passkey can be changed by pressing Setup → Bluetooth → Advanced Settings → Change Passkey menu.

Appendix

About making/answering phone calls

Q How can I answer a call?

A When there is an incoming call, a notification pop-up will become displayed. To answer the incoming call, press the `Accept` button on the screen or the key on the steering remote controller.
To reject the call, press the `Reject` button on the screen or press and hold the key on the steering remote controller.

Q What should I do if I am talking on the Handsfree but want to switch the call to the mobile phone?

A While one a call, press and hold (over 0.8 seconds) the key on the steering remote controller or press the `Private` button at the bottom of the Phone screen to switch the call to your mobile phone.

About Bluetooth® / Head unit use environment

Q What is the distance in which wireless connection can be used?

A The wireless connection can be used within 10 meters.

Q How many mobile phones can be paired?

A It is possible to pair up to five mobile phones.

Q What does call quality sometimes worsen?

A Check the reception sensitivity of the mobile phone when call quality becomes worsened.
The call quality may deteriorate when the signal strength is low. Call quality may also worsen if metal objects, such as drink cans, are placed near the mobile phone. Check to see if there are metal objects in the vicinity of the mobile phone. The call sound and quality may differ depending on the type of mobile phone.

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DIGITAL NAVIGATION SYSTEM | OWNER'S MANUAL

3ZKRB09

3ZMS1CKRO1

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.