1 General

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Warnings and Cautions

Safety Warnings

⇨ Even when receiving route guidance from the Navigation system, please abide by actual traffic and road regulations. Following only the Navigation route guidance may lead to violations of actual traffic and road regulations and lead to traffic accidents.

⇨ When checking the current vehicle sapeed, first check the speedometer rather than the speed displayed within the Navigation.

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

⇨ Do not operate the Navigation system while driving, such as entering POIs or conducting route searches. Such acts could lead to accidents. Park the vehicle before operating the device.

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

⇨ Using phone features while driving may distract drivers from paying attention to traffic conditions and result in traffic accidents. Use phone features only after the vehicle has been parked.

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

⇨ Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction. Continued use in such conditions could lead to accidents (fires, electric shock) or product malfunctions.

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

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

⇨ The video screen will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen.

⇨ Some Non-video features may also not operate when the vehicle is in motion. These features will operate only when the vehicle has been parked.

Safety Cautions

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

⇨ Operating the device while driving could lead to accidents due to a lack of attention to external surroundings. First park the vehicle before operating the device. In addition, some features may not work for your safety when the vehicle is in motion. These features will operate only when the vehicle has been parked.

⇨ Adjust the volume to levels that allow the driver to hear sounds from outside of the vehicle. Driving in a state where external sounds cannot be heard may lead to accidents.

⇨ Pay attention to the volume setting when turning the device on. A sudden output of extreme volume upon turning the device on could lead to hearing impairment. (Adjust the volume to a suitable levels before turning off the device.)

⇨ If you want to change the position of device installation, please inquire with your place of purchase or service maintenance center. Technical expertise is required to install or disassemble the device.

⇨ Turn on the car ignition before using this device. Do not operate the Audio Video Navigation system for long periods of time with the ignition turned off as such operations may lead to battery discharge.

⇨ Upon using the Audio Video Navigation system for more than 10 minutes with the car engine turned off, the following warning will be displayed, "Battery Discharge Warning!". After 10 minutes, the warning will be displayed for 5 seconds every 1 minute.

⇨ Do not subject the device to severe shock or impact. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch screen.

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

⇨ Never use tough materials, chemical cloths, or solvents (alcohol, benzene, thinners, etc.) as such materials may damage the device panel or cause color/quality deterioration.

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

Key Product Features

This device is an all-in-one Driver Information System equipped with a multifunctional DVD player, Navigation, Bluetooth® Handsfree and various other 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.

Wide TFT-LCD Display	Provides high quality video through a Wide TFT-LCD Display using an LED Back Light
Support for various Media Formats	· Support for various media formats, including FM/AM Radio, Audio/MP3/Video CD, DVD, AUX · Supports USB, iPod, and Bluetooth® Audio Streaming modes
Jukebox	Supports copy and play of music, video, image stored within USB into Jukebox (internal memory) mode (Max. 30GB)
Gracenote	When playing music, automatically receives detailed music information, such as song name, artist, album, and genre and displays on the screen (Audio CD, USB, Jukebox modes supported)
Voice Guidance	· Voice route guidance to safely and conveniently reach set destinations · Various map scales that enables drivers to accurately view map and surrounding areas
Bluetooth® Handsfree	Convenient use of Bluetooth® Handsfree by using buttons within the steering remote controller
Front Central Controller	8-directional jog-dial controllers for convenient control and access to various system features

Component Names and Functions

Head Unit

No	Name	Details
	DISC-IN LED	Displays the DISC insert state
	DISC OUT	DISC eject key
	DISC Insert Slot	DISC insert/eject slot
	DISP	Turns off the screen or displays the clock/default image
	Power/VOL	• Used to turn device power ON/OFF and control volume When power is off, press to turn power on • When power is on, press and hold (over 0.8 seconds) to turn power off • When power is on, press shortly (under 0.8 seconds) to turn AV off • Turn left/right to adjust volume

No	Name	Details
	Reset	Resets and restarts the system
	SEEK/ TRACK	**When the < SEEK , TRACK > keys are pressed shortly (under 0.8 seconds)** • In FM/AM mode, searches broadcast frequencies • In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, changes the track, file, or chapter **When the < SEEK , TRACK > keys are pressed and held (over 0.8 seconds)** • In FM/AM mode, automatically searches broadcast frequencies. Once released, searches and begins playing the next broadcast frequency • In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, rewinds or fast forwards the track or file

Component Names and Functions

Head Unit

No	Name	Details
	FM	• Each time the key is pressed, mode is changed in order of FM1 FM2 FM1
	AM	Operates AM mode
]	**MEDIA**	• Operates DISC Jukebox USB/iPod AUX Bluetooth® Audio modes • If the media is not connected or a disc is not inserted, corresponding modes will be disabled

No	Name	Details
]	**TUNE/FILE**	• In FM/AM mode, turn to change broadcast frequencies • In DISC, Jukebox, 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

Front Central Controller

No	Name	Details
	Left Soft Key	Key synchronized with the button shown on the bottom left side of the screen
	MENU	Displays the MENU popup screen
	Right Soft Key	Key synchronized with the button shown on the bottom right side of the screen
	HOME	Displays the HOME screen
	PHONE	Displays the Bluetooth® Handsfree screen
	Back	Displays the previous screen

No	Name	Details
	Controller	All desired functions can be operated by turning or pushing/pressing the 8-directional controller · Turning: Moves the focus, or zoom in/out the navigation map · Pushing to the 8-directions : Moves the focus or the navigation map · Pressing: Starts the focused feature
	MAP	Displays the map for the current position
	DEST	Displays the Destination setup menu

Rear Central Controller (Optional)

No	Name	Details
	SEEK	**When pressed shortly (under 0.8 seconds)** • In FM/AM mode, searches broadcast frequencies • In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, changes the track, file or chapter **When pressed and held (over 0.8 seconds)** • In FM/AM mode, automatically searches broadcast frequencies. Once released, searches and begins playing the next broadcast frequency • In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, rewinds or fast forwards the track or file
	Left Soft Key	Key synchronized with the button shown on the bottom left side of the screen
	MENU	Displays the MENU popup screen

No	Name	Details
	Right Soft Key	Key synchronized with the button shown on the bottom right side of the screen
	VOL	Adjusts the volume
	L PWR	**When pressed shortly (under 0.8 seconds)** • Turns the rear left-side monitor On/Off **When pressed and held (over 0.8 seconds)** • Turns the radio/media On/Off
	MUTE	Mutes sound
	BACK	Displays the previous screen
	Controller	**All desired functions can be operated by turning or pushing/pressing the 8-directional controller** • Turning: Moves the focus, or zoom in/out the navigation map • Pushing to the 8-directions : Moves the focus or the navigation map • Pressing: Starts the focused feature
]	HOME	Displays the HOME screen
]	MAP	Displays the map for the current position
]	R PWR	**When pressed shortly (under 0.8 seconds)** • Turns the rear left-side monitor On/Off **When pressed and held (over 0.8 seconds)** • Turns the radio/media On/Off

Rear Controller(Optional)

No	Name	Details
	SEEK	**When pressed shortly (under 0.8 seconds)** · In FM/AM mode, searches broadcast frequencies · In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, changes the track, file or chapter
		When pressed and held (over 0.8 seconds) · In FM/AM mode, automatically searches broadcast frequencies. Once released, searches and begins playing the next broadcast frequency · In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, rewinds or fast forwards the track or file
	FM	Each time the key is pressed, the mode is changed in order of FM1 FM2 FM1
	AM	Operates AM mode

No	Name	Details
	CH	In FM/AM mode, changes to the previous/next preset
	PWR	· 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 · When AV is off, press shortly (under 0.8 seconds) to turn AV on
	DISP	Turns off the front seat screen or displays the clock or frame image
	MEDIA	· Each time the key is pressed, the mode is changed in order of DISC Jukebox USB/iPod AUX Bluetooth Audio modes · If the media is not connected or a disc is not inserted, corresponding modes will be disabled
	MUTE	Mutes sound
	VOLUME	Adjusts the volume

Component Names and Functions

Climate Control

<Front> <Rear>

No	Name	Details
	Driver-side Temperature	Controls the cabin temperature. If 3 ZONE is turned on, only the driver-side temperature is adjusted
	AUTO	Operates auto temperature mode to maintain cabin temperature at suitable levels relative to outside temperature
	A/C	Turns the air conditioner ON/OFF
	OFF	Turns the climate system off
	MODE	Sets the fan direction. Changes fan direction mode each time the key is pressed
		Sets the fan level
		Removes humidity and frost by blowing fan towards the front window
		The rear window defroster is turned on/off
		Switches the air intake mode to recirculation

No	Name	Details
]	Ⓐ	Automatically detects stuffiness of cabin/outside air to automatically control the air intake mode
]	**3ZONE**	Turns 3 ZONE mode on/off. Upon turning 3 ZONE mode on, the driver-side, passenger-side, and rear-side temperatures can be controlled independently.
]	**CLIMATE**	Displays the climate info screen
]	**Passenger-side Temperature**	Controls the passenger-side temperature
]	**Rear OFF**	Turns the Rear Climate System off
]	**Rear-side Temperature**	Increases or decreases the Rear-side temperature

Clean Air : Emits positive/negative ions to suppress mould bacteria activities within the climate system and cabin environment

Steering Remote Controller

No	Name	Details
	VOL UP, VOL DOWN	Controls the volume (Applied to all modes, including Navigation)
	SEEK UP, SEEK DOWN	**When pressed shortly (under 0.8 seconds)** • In FM/AM mode, searches broadcast frequencies saved to Presets • In DVDP CD/MP3/DVD and Jukebox/USB/iPod, changes the track, file or chapter **When pressed and held (over 0.8 seconds)** • In FM/AM mode, automatically searches broadcast frequencies and channels • In DVDP CD/MP3/DVD and Jukebox/USB/iPod, re-winds or fast forwards the track of file

No	Name	Details
	MODE	**When pressed shortly (under 0.8 seconds)** • Turns AV mode on or changes the AV mode • Each time this key is pressed, the mode is changed in order of FM1 FM2 AM DISC Jukebox USB/iPod AUX BT Audio FM1 **When pressed and held (over 0.8 seconds)** • Turns AV mode off
	Call	**When pressed shortly (under 0.8 seconds)** • Displays Bluetooth® phone screen **When pressed and held (over 0.8 seconds)** • Makes call to most recently dialed number
	End	Ends phone call
	MUTE	• Mutes sound • During Bluetooth call, turns MIC On/Off

Using the System for the First Time

Turning the System On/Off

Turning the System On

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

Once the system is turned on, then the booting process will start. No operations are supported while the system is booting. Some time may be required until all features are ready for use.

⚠ Caution
• The safety warning page is displayed every time the ignition is turned on. As these matters are related to safety, closely read and comply with the safety warnings.

Turning the System Off

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

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

⚠ Caution
• 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.

Resetting the System

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

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

ℹ **Information** _____

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

Battery Warning Message

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

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

ℹ **Information** _____

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

Auto Video Lock

When using the DVD, VCD, or another video mode while driving, the display will be turned off for safety. A related message screen is also displayed.

< While In USB Video Mode >

Even if the screen is turned off, the media sound will continue to be played. The screen will automatically turn back on once the gear is set to P or the parking brake is turned On.

HOME Screen

Press the HOME key to display the System Home screen.

Turn the controller left/right to select the desired mode.

While in the Home screen, press the ▭ key to enter Sound Settings and the ▭ key to enter Display Settings.

Icon	Description
	FM
	AM
	DISC
	Jukebox
	USB
	iPod

Icon	Description
	AUX
	Bluetooth® Audio
	Navigation
	INFO
	PHONE

Status Icons

Various system status icons, including Navigation, AV, and Bluetooth®, are displayed at the bottom of the screen.

No	Name	Description
	NAVI	Displayed when the Navigation voice guidance has been set to mute
	AV	Displayed when AV mode has been set to mute
		Displayed when a Bluetooth® phone has been connected
		Displayed upon downloading contacts from the Bluetooth® phone
		Displayed when the user is on a Bluetooth® call
		Displayed when the microphone has been turned off during a call
		Displayed when data within the disc, Jukebox, or USB is currently being read
	RSE	Displayed when the rear system is turned on (Optional)
	RSE	Displayed when the rear system is turned off (Optional)
	RSE	Displayed when the rear system is turned on but locked (Optional)
	RSE	Displayed when the rear system is turned off and locked (Optional)
		Displayed when a file is being copied into the Jukebox

Adjusting the Volume

Adjusting the Radio/Media Volume

While playing the radio/media ▶ Turn the knob left/right to adjust the volume.

Adjusting the Voice Guidance Volume

During voice guidance ▶ Turn the knob left/right to adjust the guidance volume.

Adjusting the Call Volume

While on a call ▶ Turn the knob left/right to adjust the call volume.

Using the Soft Keys

The screen soft keys are set with features most frequently used within the current screen.

No	Name	Description
		If the left soft key is pressed, the function displayed on the bottom left side of the current screen is operated. For example, pressing the left soft key within the Radio Screen will operate the **Autostore** feature
		If the right soft key is pressed, the function displayed on the bottom right side of the current screen is operated. For example, pressing the right soft key within the Radio Screen will display the **Presets** screen

Inputting Text

The Text Input screen supports two inputting methods.

Inputting Text with the Controller

1. Turn the controller left/right to select the desired character.
2. Press the controller to input the selected text.
3. Pressing the left soft key will delete one character at a time.
4. Pressing the right soft key will complete text inputting.

⚠ Caution

・ Inputting text while driving may lead to negligent driving practices and lead to accidents. For safety, use this feature after the vehicle has been parked.

Using the System for the First Time

Inputting Text with Touch Buttons

1. Within the keyboard screen, the ☐ area can be operated by touching the screen.

2. Press the desired characters to input on the screen.

ℹ **Information**

• Inputting text with touch buttons is supported only within the keyboard screen in the front seat.

• All screens with the exception of the keyboard screen do not support the touch input feature.

2 AV

Basic Mode Screen

No	Name	Description
	Mode	Displays currently operating mode
	Frequency Range and Presets	Displays the frequency range and saved presets
	Frequency	Currently playing frequency
	Control Panel	Coverts to frequency search function, and preset mode When turned left/right: moves to previous/next frequency When pushed left/right: moves to previous/next station When pushed up/down: converts to TUNE or PRESET mode
	Autostore	Saves frequencies with superior reception to Presets
	MENU	Display the pop up menu
	Presets	Moves to saved preset list
	FM1/FM2	Converts to FM1 or FM2 mode
	Scan	In Tune mode, plays frequencies with superior reception for5 seconds each In Preset mode, plays broadcasts saved to presets for5 seconds each
]	Save Station	Saves current station
]	Presets	Moves to saved preset list
]	Autostore	Saves frequencies with superior reception to Presets
]	Sound Settings	Displays the sound settings screen
]	Display Settings	Displays the display settings screen

Starting Mode

Press the `HOME` key Select the FM or AM button.

Pressing the `FM/AM` key on the head unit to change the mode in order of FM1 FM2 AM.

Switching to TUNE Mode

In the radio screen Push the controller up to enter TUNE mode.

Within the TUNE mode, it is possible to manually search for frequencies by turning the controller left/right.

Switching to Preset Mode

In the radio screen Push the controller down to enter Preset mode.

In Preset mode, turn the controller left/right to search broadcasts saved as presets.

FM/AM

Searching Broadcasts Manually

In the TUNE mode Turn the controller left/ right to select the desired frequency.

Or turn the ⚫ **TUNE** knob left/right on the head unit to select the desired frequency.

Searching Broadcasts Automatically

In the radio screen Push the controller left/ right to search for frequencies.

The frequency is continuously changed while the controller is pushed. Once the controller is released, the following broadcast frequency and station is automatically searched.

In addition, operations can also be made from the head unit.

Press the ◁ SEEK , TRACK ▷ keys to automatically search for frequencies.

- Shortly press the key (under 0.8 seconds): Searches to previous/next frequency of adequate signal strength.
- Press and hold the key (over 0.8 seconds): While pressed, it scans pass radio stations or frequencies when released, receives the previous/next broadcast of adequate signal strength.

Saving Radio Frequencies

Saving Automatically (Autostore)

In the radio screen ▶ Press the Autostore button.

A total of 36 frequencies with 12 preset frequencies each for FM1/FM2/AM modes can be saved.

ℹ️ **Information**

• While Autostore is operating, pressing the controller will cancel the function and return to the previous frequency. In addition, the preset list is also maintained.

• Stations can also be saved automatically by pressing the MENU key Selecting Autostore

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Saving Stations Manually

Select the desired frequency ▶ Press and hold the controller ▶ Select position to save station.

ℹ️ **Information**

• Stations can also be saved manually by pressing the MENU key ▶ Selecting Save Station .

Presets

In the radio screen ▶ Press the Presets button.

Turn the controller left/right to select the desired station. Once found, press the controller to start listening.

Using the Menu Key

FM1/FM2

In the radio screen   Press the   MENU   key
   Select FM1 or FM2 .

The mode can be changed between FM1 and FM2.

Scanning Radio Frequencies

Press the   MENU   key   Select Scan .

- TUNE Mode: Starting from the current fre-
  quency, frequencies with superior reception are
  scanned for 5 seconds .
- Preset mode: Previews saved presets for 5
  seconds each.

ℹ️ **Information** _____

- While Scan is operating, pressing the controller
  will cancel the function and return to the previous
  frequency.
- The scan in both modes finishes on the frequency
  the scan started on.

DISC

About Discs

Precautions upon handling discs After

⟿ 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 introduce foreign substances into the disc insert/eject slot. Introducing foreign substances could damage the device interior.

⟿ The device may fail to properly operate in extremely hot or cold temperatures. (The operating temperature range is: -10 ~ 65)

⟿ Steam can become condensed on the fiber optic lens due to rain, wet conditions, or upon operating the heating system. In such cases, discs may not be properly recognized could be the cause of product malfunction. Remove the disc and wait until the moisture dries.

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

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

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

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

⟿ Non-genuine discs may result in disc recognition failure or product malfunction.

DISC

Supported Disc Format

Disc Type

Disc Type	Disc Format	Device Support
CD	5inch (12cm) CD CD-R CD-RW Multisession-CD	(Read Only) (Read Only) (Read Only) x
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 Formats

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

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

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
- 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

Precautions upon burning MP3 files

- The use of ISO 9660 LEVEL 2 JOLIET format is recommended.
- The use of CDs exceeding 700MB may result in faulty disc recognition or errors upon play.
- This device does not support multisession discs.
- This device supports only 8 layer folders.
- This device supports MP3 ID3 tag versions of Ver. 1.0, Ver. 1.1, Ver. 2.2, Ver. 2.3, Ver. 2.4. When using discs with other versions, the ID3 info will not be displayed.
- Although this device has been designated to be compatible with various bit rates, playing low bit rate MP3 tracks may result in low quality sound.
- When a multi-session disc is being recorded, make sure to close the session before recording.
- If mp3/wma file extensions are changed, such could result in malfunctions.
- In the case of MP3/WMA, write using only Korean or English. (Other languages are not supported)
- Unauthorized use of copy-protected music files is prohibited by law.
- Prolonged use of CD-R/CD-RW products that do not satisfy related specifications may result in product malfunction.
- When writing CDs, low-speed writing is recommended.

DISC

CD-R/RW Compatibility

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

Disc/Content Format Compatibility

By Format according to Disc Type

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

Ordinary Disc Compatibility

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

DVD-Video   Audio-CD   Video-CD

· This device supports the IEO Super VCD standard. Super VCD supports outstanding quality and supports 2 sound tracks upon recording.
· CD-R/RW discs (Audio CD) created with CD recording devices or PCs may not properly operate in the device. This is a result of various causes, including disc format, recording method, and contamination to the disc or lens.

Dual-Layer DVD Video Discs

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

DVD Region Code

- The DVD Player and DVD discs are assigned region codes.
- Discs that have region codes besides or <ALL> cannot be played.

PBC (Play-Back Control)-Compatible Video CD

- This device supports PBC-compatible Video CDs.

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.

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".

About DVD Titles

Understanding of the 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.
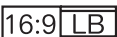
• **DVD Region Code**

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

DVD Region Code	REGION
1	USA, Canada
2	Japan, Europe, South Africa, Middle East, Greenland
3	S.Korea, Taiwan, Hong Kong, Parts of South East Asia
4	Australia, New Zealand, Latin America (including Mexico)
5	Eastern Europe, Russia, India, Africa
6	China

Icon	Description
6	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 voice 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.

Icon	Description
16:9 LB	This icon the screen ratio and display method. "16: 9" or "4: 3" indicates the screen proportion (ratio) while "LB", "PS" and "WIDE" indicates the screen display method and stands for "Letter Box", "Pan-Scan" and "Wide Screen", respectively.
NTSC	NTSC: This is the color method as used in Korea, Japan and the United States.

Color TV Support

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

DISC CD

Basic Mode Screen

No	Name	Description
	Mode	Displays currently operating mode
	Track Index	Shows the current track
	Play Track Info	Shows track number(title)/album/artist/genre information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next track • When pushed left/right: Plays previous/next track • When pressed: Plays or pauses
	Play Time	Displays the current play time and total play time
	Track Info	Shows track information
	MENU	Displays the pop up menu
	List	Moves to the track list screen
	Shuffle	Turns Shuffle feature on/off
]	**Repeat**	Turns Repeat feature on/off
]	**Scan**	Scans the beginning parts of disc tracks (approx. 10 seconds per track)
]	**Auto Playlist**	Moves to list screen showing current song and similar songs. (It is supported only for CD that support Gracenote. Refer to the Auto Playlist mode for more information)
]	**Sound Settings**	Displays the sound settings screen
]	**Display Settings**	Displays the display settings screen

DISC CD

Starting Mode

Press the HOME key Select the DISC button.

DISC mode will automatically start once a CD is inserted.

Playing a CD

Press the controller to play or pause the track.

While Gracenote checks CD information, the message "Indexing" will blink at the top right side. Once Indexing is complete, song information is displayed on the screen for songs supported by Gracenote.

Selecting a Track

While playing Shortly push the controller left/right or shortly press the SEEK , TRACK keys to select the previous/next track.

Fast-forwarding or Rewinding CD Tracks

While playing   Push and hold the controller left/right (over 0.8 seconds) or press and hold the < SEEK , TRACK > keys to rewind/fast-forward the track.

Searching CD Tracks

While playing   Turn the controller (○ TUNE knob) left/right to search for tracks.

During search, the track name is displayed. Press the controller (○ TUNE knob) to play the selected track.

Track Info/Play Info

Press the [⬜] Track Info button to view the track information.

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

DISC CD

CD List

Press the ▭ List button to select from the list.

Select the desired track by turning the controller. Once the desired track has been found, press the controller to play the track.

The ▭ Category up and ▭ CD Home button will be enabled when playing a CD that supports Gracenote and songs can be selected through Category Searches.

Using the Menu Key

Press the MENU button to use the Shuffle, Repeat, Scan, Auto Playlist, Sound Settings and Display Settings.

Shuffle

Press the `MENU` key ▶ Select `Shuffle` ▶ Select `Shuffle All` .

Songs within the current playlist are played in random order. Select the `Off` button to turn the shuffle option off.

Repeat

Press the `MENU` key ▶ Select `Repeat` ▶ Select `Repeat` .

The current track is repeated. Select the `Off` button to turn off repeat.

Scan

Press the `MENU` key ▶ Select `Scan` ▶ Select `Scan All` .

The beginning (approx 10 seconds) of all tracks within the CD are scanned.
Select the `Off` button or press the controller to turn off scan.

i Information

• Press the `Off` button again to turn the scan option off.

DISC MP3

Basic Mode Screen

No	Name	Description
	Mode	Displays currently operating mode
	File index	Shows the current MP3 file/total number
	Play File Info	Shows file name/folder/artist/genre info
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next file • When pushed left/right: Plays previous/next song • When pressed: Plays or pauses
	Play Time	Displays the current play time
	File Info.	Shows file information
	MENU	Displays the pop up menu
	List	Moves to MP3 Disc list screen
	Shuffle	Turns Shuffle feature on/off
]	**Repeat**	Turns Repeat feature on/off
]	**Scan**	Scans the beginning parts of disc files (approx 10 seconds per file)
]	**Sound Settings**	Displays to the sound settings screen
]	**Display Settings**	Displays to the display settings screen

Using the Menu key

Press the HOME key Select the DISC button.

DISC MP3 mode will automatically start once a MP3 disc is inserted.

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

Playing DISC MP3

Press the controller to play or pause the DISC MP3.

DISC MP3 do not display the play graph and total time information.

Selecting DISC MP3 files

While playing Shortly push the controller left/right or shortly press the ＜ SEEK , TRACK ＞ keys to select the previous/next file.

DISC MP3

Fast-forwarding or Rewinding DISC MP3 Files

While playing   Push and hold the controller left/right (over 0.8 seconds) or press and hold the < SEEK , TRACK > keys to rewind/fast-forward the file.

Searching DISC MP3

While playing   Turn the controller (TUNE knob) left/right to search for files.

During search, the file name is displayed. Press the controller (TUNE knob) to play the selected file.

File Info/Play Info

Press the [   ] File Info button to view the file information.

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

MP3 List

Press the ⬚ List button to select the list and check the playlist.

- Turn the controller left/right to select and play the desired file. Once the desired file has been found, press the controller to play the file.
- Pressing the MENU key and the Now Playing button within the list screen will move the focus to the currently playing file.

Using the Menu Key

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

Shuffle

Press the MENU key   Select Shuffle
Select Shuffle Folder or Shuffle All .

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

No	Name	Description
	Shuffle Folder	Plays current folder in random order
	Shuffle All	Plays all files in random order
	Off	Turn the Shuffle feature off.

DISC MP3

Repeat

Press the `MENU` key   Select `Repeat`
Select `Repeat` or `Repeat Folder` .

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

No	Name	Description
	Repeat	Repeat current song
	Repeat Folder	Repeat current folder
	Off	Turn the Repeat feature off.

Scan

Press the `MENU` key   Select `Scan`
Select `Scan All` or `Scan Folder` .

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

No	Name	Description
	Scan All	Scans the beginning parts (approx 10 seconds) of all files
	Scan Folder	Scans the beginning parts (approx 10 seconds) of all files within the current folder
	Off	Turn the Scan feature off.

DVD

Basic Mode Screen

No	Name	Description
	Mode	Displays currently operating mode
	Index	Shows the current DVD title/chapter number
	Code Info	Shows information on voice and subtitle codes
	Control Panel	Enables use of play/pause/search features • When turned left/right: Searches previous/next chapter • When pushed left/right: Plays previous/next chapter • When pressed: Plays or pauses
	Play Time	Shows the current play time
	Full screen	Converts DVD into full screen
	MENU	Displays the pop up menu
	List	Displays the DVD list screen
	Title Menu	Moves to the Title menu screen
]	**DVD Menu**	Moves to the DVD menu screen
]	**Subtitle Language**	Set Subtitle Language
]	**Voice Language**	Set Voice Language
]	**Sound Settings**	Displays to the sound settings screen
]	**Display Settings**	Displays to the display settings screen
]	**DVD Default Language**	Displays to the DVD language setting screen

DVD

Starting Mode

Press the ⸢**HOME**⸥ key Select the DISC button.

DVD mode will automatically start once a DVD disc is inserted.

Playing a DVD

Press the controller to play or pause the DVD.

While in "Full screen", Pressing the controller brings the screen menu (as shown above). Pressing the controller again with the display up then pauses the DVD, This is the same to resume(play) the DVD. This is also the case for the ◉ **TUNE** knob.
DVD do not display the play graph and total time information.

Selecting a Chapter

While playing Shortly push the controller left/right or shortly press the ⸢**< SEEK**⸥ , ⸢**TRACK >**⸥ keys to select the previous/next chapter.

Fast-forwarding or Rewinding Chapter

While playing Push and hold the controller left/right (over 0.8 seconds) or press and hold the ❮ SEEK , TRACK ❯ keys to rewind/fast-forward the current DVD.

Searching Chapter

While playing Turn the controller (⬤ **TUNE** knob) left/right to search for chapters.

During search, the file name is displayed. Press the controller (⬤ **TUNE** knob) to play the selected chapter.

Viewing in Full Screen

Press the ▭ Full Screen button to view the DVD in full screen.

ℹ **Information**

• If there are no operations for 10 seconds, the screen menu will automatically disappear.

DVD

Searching Titles/Chapters

Press the 🔲 List button to search DVD titles and chapters.

• **Searching Titles**

Press the 🔲 Previous Title and the 🔲 Next Title button to change to the previous or next title.

• **Searching Chapters**

Turn the controller left/right or shortly press the ‹ SEEK , TRACK › keys to select the previous/ next chapter.

ⓘ **Information**
• The ☐ the number of currently playing title and the total number of titles within the DVD disc.
• The ☐ the number of currently playing chapter and the total number of chapters within the current title.

Using the Menu Key

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

Information

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

Title/DVD Menu

Press the MENU key ▶ Select Title Menu or DVD Menu .

Push the controller up/down/left/right directions to select the desired menu and press the OK button.

Subtitle Language

Press the MENU key ▶ Select Subtitle Language .

Press the controller to change the subtitle language.

DVD

DVD

Voice Language

Press the MENU key Select Voice Language .

Press the controller to change the voice language.

🛈 **Information**
• Supported subtitle and voice languages may differ according to DVD title.

DVD Default Language

Press the MENU key Select DVD Default Language .

This menu is used to set the languages used when playing the DVD.

If you select Others from the list of languages, the desired language can be searched by directly entering the corresponding language code.

VCD

Basic Mode Screen

No	Name	Description
	Mode	Displays currently operating mode
	Track Index	Shows the current track number
	PBC	Displays PBC function On/Off
	Control Panel	Enables use of play/pause/search features • When turned left/right: Searches previous/next track • When pushed left/right: Plays previous/next track • When pressed: Plays or pauses
	Play Time	Displays the current play time
	Full Screen	Converts VCD into full screen
	MENU	Displays the pop up menu
	List	Moves to the VCD list screen
	PBC On/Off	Turns the PBC feature On/Off
]	PBC Menu	Moves to the PBC Menu screen
]	Repeat	Turns Repeat feature on/off
]	Sound Settings	Displays to the sound settings screen
]	Display Settings	Displays to the display settings screen

VCD

Using the Menu Key

Press the HOME key   Select the DISC button.

VCD mode will automatically start once a VCD disc is inserted.

Playing a VCD

Press the controller to play or pause the VCD.

While in "Full screen", Pressing the controller brings the screen menu (as shown above). Pressing the controller again with the display up then pauses the VCD, This is the same to resume(play) the VCD. This is also the case for the ◯ TUNE knob.
VCD do not display the play graph and total time information.

Selecting VCD tracks

While playing   Shortly push the controller left/right or shortly press the ‹ SEEK , TRACK › keys to select the previous/next track.

Fast-forwarding or Rewinding VCD tracks

While playing   Push and hold the controller left/right (over 0.8 seconds) or press and hold the ⟨ SEEK ⟩ , TRACK ⟩ keys to rewind/fast-forward the current VCD.

Searching VCD tracks

While playing   Turn the controller (◉ TUNE knob) left/right to search for tracks.

During search, the track number is displayed. Press the controller (◉ TUNE knob) to play the selected track.

Viewing in Full Screen

Press the [▭] Full Screen button to view the VCD in full screen.

ℹ️ **Information**

• If there are no operations for 10 seconds, the screen menu will automatically disappear.

VCD

VCD List

Press the ⬜ List button to view the play list.

Using the Menu Key

Press the **MENU** key to use the PBC On/Off, PBC Menu, Repeat, Sound Settings and Display Settings.

PBC On/Off

Press the **MENU** key ▶ Select **PBC On/Off** ▶ Select the **0** ~ **9** buttons ▶ Set and press ⬜ Done button.

Within PBC ON state, press the **PBC Menu** button to display the PBC menu screen.

Information

• Press the PBC On/Off button to turn the PBC setting OFF.

• Press the ▭▭▭ , ▭▭▭ buttons to move to the previous/next list menu page.

Repeat

Press the MENU key   Select Repeat .

The current track is repeated.

Information

• Press the Repeat button again to turn off repeat.

JUKEBOX

Basic Mode Screen (Audio)

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total files
	Play File Info	Shows file name/folder/artist/genre information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next files • When pushed left/right: Plays previous/next file • When pressed: Plays or pauses the file
	Play Time	Displays the play time information
	File Info	Shows file information
	MENU	Displays the pop up menu
	List	Moves to the Jukebox Audio list screen
	Shuffle	Turns Shuffle feature on/off
]	Repeat	Turns Repeat feature on/off
]	Scan	Scans the beginning parts of files (approx 10 seconds per file)
]	Auto Playlist	Moves to list screen showing current song and similar songs. (Refer to the Auto Playlist mode for more information)
]	Jukebox Video	Moves to Jukebox Video mode
]	Jukebox Image	Moves to Jukebox Image mode
]	Sound Settings	Displays the sound settings screen
]	Display Settings	Displays the display settings screen

Basic Mode Screen (Video)

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total number of files
	Play File Info	Shows file name/folder/resolution information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next files • When pushed left/right: Plays previous/next file • When pressed: Plays or pauses the file
	Play Time	Displays the playtime information
	Full Screen	Displays the video in full screen
	MENU	Displays the pop up menu
	List	Moves to the Jukebox Video list screen
	Shuffle	Turns Shuffle feature on/off
]	**Repeat**	Turns Repeat feature on/off
]	**DivX® Setting**	Used to set DivX® VOD related settings/subtitles and voice language settings
]	**Jukebox Image**	Moves to Jukebox Image mode
]	**Jukebox Audio**	Moves to Jukebox Audio mode
]	**Sound Settings**	Displays the sound settings screen
]	**Display Settings**	Displays the display settings screen

JUKEBOX

Basic Mode Screen (Image)

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total files
	Play File Info	Shows file name/folder/size/resolution information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next files • When pushed left/right: Plays previous/next files • When pressed: Starts/stops slideshow
	Full Screen	Displays the image in full screen
	MENU	Displays the pop up menu
	List	Moves to the Jukebox Image list screen
	Zoom In/Out	Enlarges/reduces image (zoom in/out)
	Rotate	Rotates image
]	**Slideshow Setting**	Set image slideshow time
]	**Jukebox Audio**	Moves to Jukebox Audio mode
]	**Jukebo Video**	Moves to Jukebox Video mode
]	**Sound Settings**	Displays the sound settings screen
]	**Display Settings**	Displays the display settings screen

Starting Mode

Press the HOME key   Select the Jukebox
button.

If there are files saved within the Jukebox, then
the Jukebox menu will be enabled.

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

ℹ️ **Information**

• If Jukebox is being operated for the first time,
  then Jukebox Audio mode will begin to operate.

Jukebox Audio Mode

Playing Jukebox Audio

Press the controller to play or pause the current
file.

While Gracenote checks the music information,
the message "Indexing" will blink at the top right
side.

Once Indexing is complete, song information is
displayed on the screen for songs supported by
Gracenote.

Selecting Jukebox Audio Files

While playing   Shortly push the controller
left/right or shortly press the < SEEK ,
 TRACK > keys to select the previous/next file.

JUKEBOX

Fast-forwarding or Rewinding Jukebox Audio Files

While playing   Press and hold the controller left/right (over 0.8 seconds) or press and hold the SEEK , TRACK keys to rewind/fast-forward the current file.

Searching Jukebox Audio Files

While playing   Turn the controller (TUNE knob) left/right to search for files.

During search, the file name is displayed. Press the controller(TUNE knob) to play the selected file.

File Info/Play Info

Press the   File Info button to view file information.

To return to the previous screen, select the   Play Info button.

Jukebox Audio List

Press the [▭] List button to select from the list.

Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

Once Gracenote indexing (checking for song information) is complete, songs can be selected by searching through categories from the Home list screen.

Using the Menu Key

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

JUKEBOX

Shuffle

Press the ⟨MENU⟩ key ▶ Select ⟨Shuffle⟩ ▶ Select ⟨Shuffle All⟩ .

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

No	Name	Description
	Shuffle All	Play all audio files in random order
	Off	Turn the Shuffle feature off

Repeat

Press the ⟨MENU⟩ key ▶ Select ⟨Repeat⟩ ▶ Select ⟨Repeat⟩ .

The current song can be repeated.

No	Name	Description
	Repeat	Repeats play of currently playing file
	Off	Turn the Repeat feature off

Scan

Press the ⟨MENU⟩ key ▶ Select ⟨Scan⟩ ▶ Select ⟨Scan All⟩ .

The beginning part (approximately first 10 seconds) of all files are played.

No	Name	Description
	Scan All	Previews the first 10 seconds of all files
	Off	Turn the Scan feature off

Using the List Menu Key

From the List screen, press the MENU key to use the Now Playing, Storage, Delete, and Delete All options.

ℹ **Information**
• This is the same for all Jukebox modes.

Now Playing

From the list screen   Press the MENU key
    Select Now Playing .

The focus is moved to the currently playing file.

Storage Space

From the list screen   Press the MENU key
    Select Storage Space .

The storage space currently in use is displayed.

Delete

From the list screen   Press the MENU key
    Select Delete .

The selected file is deleted.

Delete All

From the list screen   Press the MENU key
    Select Delete All .

All files saved within Jukebox Audio are deleted.

Jukebox Video Mode

Playing Jukebox Video

Press the controller to play or pause the Jukebox Video.

While in "Full screen", Pressing the controller brings the screen menu (as shown above). Pressing the controller again with the display up then pauses the Video, This is the same to resume(play) the Video. This is also the case for the ⊙ **TUNE** knob.

Selecting Jukebox Video Files

While playing　Shortly push the controller left/right or shortly press the ‹ SEEK ‚ TRACK › keys to select the previous/next file.

Fast-forwarding or Rewinding Jukebox Video Files

While playing　Press and hold the controller in　left/right　direction (over 0.8 seconds) or press and hold the ‹ SEEK ‚ TRACK › keys to rewind/fast-forward the current file.

Once the controller or ‹ SEEK ‚ TRACK › key is released, the file will begin playing at normal speed.

Searching Jukebox Video Files

While playing   Turn the controller (🔘 **) TUNE knob) left/right to search for files.**

During search, the file name is displayed. Press the controller (🔘 **TUNE** knob) to play the selected file.

Viewing in Full Screen

Press the [🔲] Full Screen button to view the file in full screen.

ℹ️ **Information** _____

• If there are no operations for 10 seconds, the Screen menu will automatically disappear.

Jukebox Video Lists

Press the [🔲] List button to select from the list.

Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

JUKEBOX

Using the Menu Key

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

Shuffle

Press the `MENU` Select `Shuffle` Select `Shuffle All` .

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

No	Name	Description
	Shuffle All	Plays all files in random order
	Off	Turn the Shuffle feature off

Repeat

Press the `MENU` Select `Repeat` Select `Repeat` .

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

No	Name	Description
	Repeat	Repeats the currently playing file
	Off	Turn the Repeat feature off

DivX Settings

Press the MENU key Select
DivX® Settings .

No	Name	Description
	DivX VOD	Set DivX VOD related options
	Subtitle Language	Set Subtitle language
	Voice Language	Set Voice language

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

Using the List Menu Key

From the List screen, press the MENU key to use the Now Playing, Storage, Delete, and Delete All options.

Refer to the 'Using the List Menu Key' of the Jukebox Audio for more information.

Jukebox Image Mode

Selecting Jukebox Image Files

While playing Shortly push the controller left/right or shortly press the ‹ SEEK , TRACK › keys to select the previous/next file.

JUKEBOX

Searching Jukebox Image Files

While Playing   Turn the controller ( )

TUNE knob) left/right to search for files.

During search, the image name is displayed. Press the controller (**TUNE** knob) to play the selected image.

Slideshow

Press the controller to start the slideshow.

Viewing in Full Screen

Press the [ ] Full Screen button to view the image in full screen.

ℹ️ Information

• If there are no operations for 10 seconds, the screen menu will automatically disappear.

Jukebox Image List

Press the [ ] List button to select from the list.

Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

Using the Menu Key

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

Zoom In/Out

Press the MENU key Select Zoom In/Out .

Turn the controller left/right to enlarge or reduce the image size. The scale can be changed to 25%, 50%, 100%, 200%, 400%.

ℹ️ **Information**
· Press the controller to restore the original image size.
· When the image is not entirely displayed on the screen, different areas of the current image can be viewed by pushing the controller up/down/left/right.

Rotate

Press the MENU **key   Select** Rotate **.**

Each time the controller is turned, the image is rotated from 0˚, 90˚, 180˚, 270˚.

ⓘ **Information**

• Press the controller to restore the original image state.

Slideshow Setting

Press the MENU key   Select Slideshow **.**

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

Using the List Menu Key

From the List screen, press the MENU key to use the Now Playing, Storage Space, Delete, and Delete All options.

Refer to the 'Using the List Menu Key' of the Jukebox Audio for more information.

About USB

Before playing a USB MP3

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

⇨ Files that are not standard MP3 and WMA format files are not supported.

⇨ 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 in some conditions.

⇨ Only products formatted with byte/sectors under 64Kbyte will be recognized.

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

⇨ Some USB devices may not be supported due to compatibility issues.

⇨ Avoid contact between the USB connector with bodily parts/foreign objects.

⇨ Repeated connecting/disconnecting of USB devices within short periods of time may result in product malfunction.

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

⇨ The amount of time required to recognize the external USB device may differ depending on the type, size, or file formats stored on the USB. Such differences in required time are not indications of malfunction.

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

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

⇨ The device may not recognize the USB device if separately purchased USB hubs and extension cables are being used. Connect the USB directly with the multimedia terminal of the vehicle.

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

USB

◇ 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.

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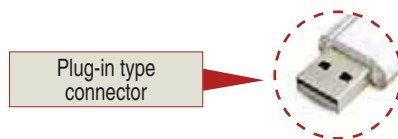
Product Name	Manufacturer
XTICK	LG
BMK	BMK Technology
SKY-DRV	Skydigital
TRANSCEND JetFlash	Transcend
Sandisk Cruzer	SanDisk
Micro ZyRUS	ZyRUS
NEXTIK	Digiworks

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

ⓘ Information _____

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

Precautions upon handing discs After

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

Video and Image Specification (USB/Jukebox)

Product Name	Description
Format	AVI(DivX), MPG, MP4
Video Codec	DivX 3/4/5/6, XviD, MPEG1/2, H264, WMV9
Video Resolution	DivX: 720 x 576, MPEG: 720 x 576 (30fps), WMV: 320 x 240
Audio Codec	MP3, AC3, AAC, OGG
Subtitle	SMI
Image Format	JPG, BMP, GIF, PNG
Image Resolution	4,000 x 3,000 max/5MBytes
Unsupported File	• Files with unsupported specifications • Format modified files (Files with modified file formats) • Among AVI files, those encoded through H.264, MJPEG, H.263 • Files without indexes • Files those exceeds supported bit rate range(3Mbps), WMV(0.7Mbps) • High resolution file may operate abnormally or not properly play

Basic Mode Screen (Audio)

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total files
	Play File Info	Shows file name/folder/artist/genre information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next file • When pushed left/right: Plays previous/next file • When pressed: Plays or pauses the file
	Play Time	Displays the play time information
	File Info	Shows file information
	MENU	Displays the pop up menu
	List	Moves to the USB Audio list screen
	Shuffle	Turns Shuffle feature on/off
]	Repeat	Turns Repeat feature on/off
]	Scan	Scans the beginning parts of files (approx 10 seconds per file)
]	Auto Playlist	Moves to list screen showing current song and similar songs. (Refer to the Auto Playlist mode for more information)
]	Copy	Copies file to Jukebox
]	USB Video	Moves to USB Video mode
]	USB Image	Moves to USB Image mode
]	Sound Settings	Displays to the sound settings screen
]	Display Settings	Displays to the display settings screen

Basic Mode Screen (Video)

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total number of files
	Play File Info	Shows file name/folder/resolution information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next files • When pushed left/right: Plays previous/next file • When pressed: Plays or pauses the file
	Play Time	Displays the playtime information
	Full Screen	Displays the video in full screen
	MENU	Displays the pop up menu
	List	Moves to the USB Video list screen
	Shuffle	Turns Shuffle feature on/off
]	**Repeat**	Turns Repeat feature on/off
]	**Copy**	Copies file to Jukebox
]	**DivX® Setting**	Used to set DivX® VOD related settings/subtitles and voice language settings
]	**USB Image**	Moves to USB Image mode
]	**USB Audio**	Moves to USB Audio mode
]	**Sound Settings**	Displays the sound settings screen
]	**Display Settings**	Displays the display settings screen

Basic Mode Screen (Image)

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total files
	Play File Info	Shows file name/folder/size/resolution information
	Control Panel	Enables search/selection of previous/next files • When turned left/right: Searches previous/next files • When pushed left/right: Plays previous/next files • When pressed: Starts/stops slideshow
	Full Screen	Displays the image in full screen
	MENU	Displays the pop up menu
	List	Moves to the USB Image list screen
	Zoom In/Out	Enlarges/reduces image (zoom in/out)
	Rotate	Rotates image
]	**Slideshow Setting**	Views images as slideshow
]	**Copy**	Copies file to Jukebox
]	**USB Audio**	Moves to USB Audio mode
]	**USB Video**	Moves to USB Video mode
]	**Sound Settings**	Displays the sound settings screen
]	**Display Settings**	Displays the display settings screen

Starting Mode

Press the HOME button   Select the USB button.

USB mode will automatically start once a USB is connected.

Notice
- If the USB is not connected, then the USB button will be disabled.

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

USB Audio Mode

Playing USB Audio

Press the controller to play or pause the USB Audio.

While Gracenote checks the music information, the message "Indexing" will blink at the top right side.
Once Indexing is complete, song information is displayed on the screen for songs supported by Gracenote.

Selecting USB Audio Files

While playing   Shortly push the controller left/right or shortly press the ‹ SEEK , TRACK › key to select the previous/next file.

Fast-forwarding or Rewinding USB Audio Files

While playing   Push and hold the controller left/right (over 0.8 seconds) or press and hold the ‹ SEEK , TRACK › key to rewind/fast-forward the current file.

Searching USB Audio Files

While playing   Turn the controller (⬤ TUNE knob) left/right to search for files.

During search, the file name is displayed. Press the controller (⬤ TUNE knob) to play the selected file.

File Info/Play Info

Press the [⬜] File Info button to view the file information.

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

ℹ️ **Information**

· Information is not displayed when ID3 tag or Gracenote song information does not exist.

Searching USB Audio Files

Press the [⬜] List button to select from the list.

Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

You can move to the previous folder or the root list screen by pressing the [⬜] Category up and [⬜] USB Home buttons.

Once Gracenote indexing (checking for song information) is complete, files can be selected by searching through categories from the Home list screen.

Using the Menu Key

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

Shuffle

Press the **MENU** key → Select **Shuffle**
→ Select **Shuffle Folder** or **Shuffle All**.

All files within the folder or USB can be played in random order.

No	Name	Description
	Shuffle Folder	Plays files within the current folder in random order.
	Shuffle All	Plays files within the USB in random order.
	Off	Turn the Shuffle feature off.

If songs are played by artists, albums, Songs or genres from the root list, shuffle menus are displayed as **Shuffle** and **Off**.

Repeat

Press the **MENU** key → Select **Repeat**
→ Select **Repeat** or **Repeat Folder**.

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

No	Name	Description
	Repeat	Repeats the currently playing file
	Repeat Folder	Repeats the files in the current folder.
	Off	Turn the Repeat feature off.

If songs are played by artists, albums, songs or genres from the root list, repeat menus are displayed as **Repeat** and **Off**.

Scan

Press the ▮MENU▮ key ▸ Select ▮Scan▮

Select ▮Scan All▮ or ▮Scan Folder▮ .

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

No	Name	Description
	Scan All	Scans files within the USB in random order.
	Scan Folder	Searches files within the current folder.
	Off	Turn the Scan feature off.

If songs are played by artists, albums, Songs or genres from the root list, scan menus are displayed as ▮Scan Playlist▮ and ▮Off▮ .

Copying to Jukebox

Press the ▮MENU▮ key ▸ Select ▮Copy▮

Set copy options.

If ▮Select Files▮ is selected, desired files can be selected to copy into the Jukebox.

Turn the controller to select files. Once files are selected, press the ▮▭▮ Copy Selected File button to copy selected files into the Jukebox.

No	Name	Description
	Now Playing	Copy currently playing file into the Jukebox
	Select Files	Select desired files from the list to copy
	Current Selection	Copies currently focused file

ℹ **Information**

• The ⸢ Select Files ⸥ button can be used to select files within the current folder.

While copying is in progress, press the ⸢ OK ⸥ button to display the play screen. Within the play screen, press the ⸢ MENU ⸥ key and ⸢ Cancel Copy ⸥ button to cancel copying.

ℹ **Information**

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

Using the List Menu Key

From the List screen, press the ⸢ MENU ⸥ key to use the Copy and Now Playing options.

Copy

From the list screen Press the ⸢ MENU ⸥ **key Select** ⸢ Copy ⸥ **.**

Refer to the 'Copying to Jukebox' section for more information.

Now Playing

From the list screen Press the ⸢ MENU ⸥ **key Select** ⸢ Now Playing ⸥ **.**

The focus is moved to the currently playing file.

USB Video Mode

Playing USB Video

Press the controller to play or pause the USB Video.

While in "Full screen", Pressing the controller brings the screen menu (as shown above). Pressing the controller again with the display up then pauses the Video, This is the same to resume(play) the Video. This is also the case for the ⊙ **TUNE** knob.

Copy

While playing Shortly push the controller left/right or shortly press the ❮ SEEK , TRACK ❯ keys to select the previous/next file.

Fast-forwarding or Rewinding USB Video Files

While playing Push and hold the controller left/right (over 0.8 seconds) or press and hold the ❮ SEEK , TRACK ❯ key to rewind/fast-forward the current file.

Once the controller or ❮ SEEK , TRACK ❯ key is released, the file will begin playing at normal speed.

Searching USB Video Files

While playing　Turn the controller (⬤ TUNE knob) left/right to search for files.

During search, the file name is displayed. Press the controller (⬤ TUNE knob) to play the selected file.

Viewing in Full Screen

Press the [___] Full Screen button to view the file in full screen.

ℹ **Information**

• If there are no operations for 10 seconds, Screen menu will automatically disappear.

USB Video List

Press the [___] List button to select from the list.

Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

You can move to the previous folder or the root list screen by pressing the [___] Category up and [___] USB Home button.

Using the Menu Key

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

Shuffle

Press the **MENU** key ▶ Select **Shuffle** ▶ Select **Shuffle Folder** or **Shuffle All** .

Folders or All files within the USB can be played in random order.

No	Name	Description
	Shuffle Folder	Plays files within the current folder in random order.
	Shuffle All	Plays files within the USB in random order.
	Off	Turn the Shuffle feature off.

Repeat

Press the **MENU** key ▶ Select **Repeat** ▶ Select **Repeat** or **Repeat Folder** .

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

No	Name	Description
	Repeat	Repeats play of currently playing file.
	Repeat Folder	Repeats the files in the current folder.
	Off	Turn the Repeat feature off.

USB

Copying to Jukebox

Press the MENU key   Select Copy
Set copy options.

Refer to the USB Audio 'Copying to Jukebox' section for more information.

DivX® Setting

Press the MENU key   Select
 DivX® Settings .

No	Name	Description
	DivX® VOD	Set DivX® VOD features
	Subtitle Language	Set Subtitle Language
	Voice Language	Set Voice Language

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

Using the List Menu Key

Selecting USB Image Files

While playing   Shortly push the controller left/right or shortly press the < SEEK ,
 TRACK > key to select the previous/next file.

Searching USB Image Files

While playing knob) left/right **Turn the controller (◯ TUNE Search for files.**

During search, the image name is displayed. Press the controller (◯ **TUNE** knob) to play the selected image.

Slideshow Show

Press the controller and select the 🔘 button to start the slideshow.

Viewing in Full Screen

Press the [🔲] Full Screen button to view the file in full screen.

ℹ️ **Information**

• If there are no operations for 10 seconds, the screen menu will automatically disappear.

USB Image List

Press the ⬚ List button to select from the list.

Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

You can move to the previous folder or the root list screen by pressing the ⬚ Category up and ⬚ USB Home button.

Using the Menu Key

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

Zoom In/Out

Press the MENU key   Select Zoom In/Out .

Turn the controller left/right to enlarge or reduce the image size. The scale can be changed to 25%, 50%, 100%, 200%, 400%.

ℹ **Information**

• Press the controller to restore the original image size.
• When the image is not entirely displayed on the screen, different areas of the current image can be viewed by pushing the controller up/down/left/right.

Rotate

Press the MENU key   Select Rotate .

Each time the controller is rotated, the image is rotated from 0˚, 90˚, 180˚, 270˚.

ℹ **Information**

• Press the controller to restore the original image state.

Slideshow Setting

Press the MENU key   Select Slideshow .

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

Copying to Jukebox

Press the MENU key   Select Copy Set copy options.

Refer to the USB Audio 'Copying to Jukebox' section for more information.

ℹ **Information**

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

USB

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.

↪ 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.

↪ 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.

↪ 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.)

⊃ When playing iPods, use an iPod-dedicated car cable(the cable that is supplied when purchasing iPod/iPhone products). Normal operations cannot be guaranteed when a dedicated iPod cable(the cable that is supplied when purchasing iPod/iPhone products) is not used.

⊃ if music or video applications are playing or active within the connected iPod device, the contents of such applications may begin playing. In such cases, first end such applications within the iPod device before connecting with the system.

iPod

Precautions upon handling discs After

Device/Gen-eration	First	Second	Third	Fourth	Fifth	Sixth
iPod classic						
iPod nano						
iPod mini	Not Supported					
iPod shuffle	Not Supported					
iPod touch						Not Released
iPhone	iPhone, iPhone 3G, iPhone 3GS, iPhone 4G, iPhone 4GS					

Disc Formats

(May differ depending on the type of iPod device.)

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

Basic Mode Screen

No	Name	Description
	Mode	Displays currently operating mode
	File Index	Shows the current file/total files within the iPod
	Play File Info	Displays title/album/artist/genre information
	Control Panel	Enables use of play/pause/select/search features • When turned left/right: Searches previous/next songs • When pushed left/right: Plays previous/next songs • When pressed: Plays or pauses
	Play Time	Displays the play time information
	File Info	Shows file information
	MENU	Displays the pop up menu
	List	Moves to the list screen
	Shuffle	Turns Shuffle feature on/off
]	**Repeat**	Turns Repeat feature on/off
]	**Sound Settings**	Displays to the sound settings screen
]	**Display Settings**	Displays to the display settings screen

Starting Mode

Press the HOME button Select the iPod button.

iPod mode will automatically start once an iPod is connected.

ℹ **Information**

• Some iPods with unsupported communication protocols may not properly operate within the system.

Playing iPod

Press the controller to play or pause the iPod.

Selecting iPod File

While playing Shortly push the controller left/right or shortly press the ‹ SEEK , TRACK › key to select the previous/next song.

Fast-forwarding or Rewinding iPod Files

While playing Push and hold the controller left/right (over 0.8 seconds) or press and hold the ❮ SEEK , TRACK ❯ key to rewind/fast-forward the current song.

Searching iPod Files

While playing Turn the controller (●TUNE knob) left/right to search for songs.

During search, the song name is displayed. Press the controller (● **TUNE** knob) to play the selected song.

File Info/Play Info

Press the [▭] File Info button to view the file information.

To return to the previous screen, select the [▭] Play info button.

ℹ️ **Information**

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

Searching iPod List

Press the ▭ List button to select from the list.

Songs can be searched from various categories, including Playlist, Artists, Albums, Genres, Songs Composers, Audiobooks, and Podcasts.

You can move to the previous category or the root list screen by pressing the ▭ Category up and ▭ iPod Home button.

 ℹ Information

• If the search mode is accessed while playing a song, the most recently searched step will become displayed.

• Upon initial connection, the search steps may differ depending on the type of iPod device.

Using the Menu Key

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

Shuffle

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

No	Name	Description
	Shuffle	Plays songs within play list in random order
	Shuffle Album	Plays albums in random order (plays songs within the album in sequential order)
	Off	Turn the Shuffle feature off.

Repeat

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

The current song is repeated.

No	Name	Description
	Repeat	Repeats play of currently playing song.
	Off	Turn the Repeat feature off.

Starting Mode

Press the HOME button   Select the AUX button.

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.

Notice

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

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

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

Notice

• This device supports the NTSC color system. Other color systems are not supported.

About Using Bluetooth® Audio

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

▷ While Bluetooth® Audio is playing, disconnecting the Bluetooth® phone will also terminate Bluetooth® music.

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

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

Notice
• If Bluetooth® Audio Streaming is used simultaneously with another music application, then the display and sound may operate abnormally.

Starting Mode

Press the ▐HOME▐ button   Select the Bluetooth Audio button.

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

Bluetooth® Audio

Playing Bluetooth® Audio

Press the controller to begin playing Bluetooth® Audio. Pressing the controller again will pause the Bluetooth® Audio.

Selecting Bluetooth® Audio

While playing　**Shortly push the controller left/right or shortly press the** <kbd>< SEEK</kbd> **,** <kbd>TRACK ></kbd> **key to select the previous/next song.**

Notice

• The title/artist info may not be supported in some mobile phones.
• Play/Pause, Previous/Next function may not be supported in some mobile phones.

Auto Playlist

The Auto Playlist feature is supported only within DISC CD, USB Audio, and Jukebox Audio modes.

Press the `MENU` **key** ▶ **Select** `Auto Playlist` .

List of songs similar with the current song is displayed.
Once the desired song is selected, then Auto Playlist mode will operate.
Press Back to cancel viewing Auto Playlist.

Notice ────────────

• Auto Playlist is a Gracenote feature and will operate only after song information has been checked.

Exiting Auto Playlist

Auto Playlist mode can be exited by starting a different AV mode or by pressing `Exit Auto Playlist` within `MENU` .

memo

3 Navigation

Before Use

⚠ Safety Cautions

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

⇨ Roads names and POI information may not always be completely up to date.

⇨ The route displayed for destination guidance is a reference that will take you to the vicinity of your destination, not always the exact location.

⇨ The navigation system uses GPS information, various sensors, road map data, and other related information to display the current position. Errors may occur if the satellite is transmitting inaccurate signals or if which can only two or less satellite signals.

⇨ The current position may become displayed on at a place somewhat different from your actual location. The car position mark may differ from the actual location due to the state of the GPS satellites or the vehicle (driving location and conditions).

About the Map

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

About Map Scale

- If [100m] is displayed on the left side of the map, this represents a map scale of 1/10,000.
- For more information on map scales, refer to the 'Changing Map Scale' section.

Actual distance

Level	mi / ft	km / m
1	150 ft	50 m
2	300 ft	100 m
3	700 ft	200 m
4	0.25 mi	400 m
5	0.5 mi	800 m
6	1 mi	1.6 km
7	2 mi	3.2 km
8	4 mi	6.4 km
9	8 mi	12 km
10	16 mi	25 km
11	32 mi	50 km
12	64 mi	100 km
13	130 mi	200 km
14	250 mi	400 km

ℹ️ **Information**

- Turn the controller left to scale in, and turn the controller right to scale out.

About Map Icons

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

About Map DB

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

About Voice Guidance

During destination guidance, voice guidance will be provided when you reach an intersection or are near your destination.

<Example of voice guidance during destination guidance>

-In front of an intersection

"In a half mile Turn Right."

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

- Example of voice guidance when arriving at the destination

"You have arrived at your destination. Your route guidance is finished."

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

Guidance When using Other Modes

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

ⓘ **Information**
• Even when voice guidance has been muted, destination guidance will continued to be provided.

Basic Mode

No	Name	Details
	Car direction and Scale	Map direction and GPS reception state and scale display
	Lane Info	Recommended lanes taking the following intersection and expected route into consideration
	Preliminary Guidance	Remaining distance until next turn
	Speed Limit	Displayed at all times when driving on roads with speed limits
	Car Position Mark	Displays the current vehicle position and direction
	Remaining Distance	Displays, ETA, remaining time and distance from current position to the destination
	NAVI Home	Displays the Navi Home screen
	MENU	Displays map option features related popup menu
	Guidance Mode	Changes the right Navi screen guidance mode

No	Name	Details
]	**Add to My Places**	Add my places to the map
]	**POI**	Displays the POI Icon list, and allows editing
]	**Map Mode**	Sets map display mode, either heading up or north up
]	**Mute**	Mutes navi voice guidance
]	**Navigation Volume**	Controls navi voice guidance volume
]	**Cancel Route**	Cancels the currently set route
]	**Route Options**	Used to recalculate route to the destination using different map attributes
]	**Auto Zoom**	Sets whether to automatically adjust the map scale when the vehicle is in motion

Starting Navigation

Starting Navigation

Press the ⬛ MAP ⬛ key   Navigation mode will start.

Displaying the Current Position

Press the ⬛ MAP ⬛ key within any mode while using to system to display the current position, vicinity and the current position mark.

ℹ **Information**
• When riding in a new car or after replacing the battery terminal, the car position mark may appear at a location different from your actual current position.
• Even if the car position mark on the map is different, map matching or GPS info are used to automatically update the current position.

Starting Navigation

Changing the Map Mode

Press the MAP key   Press MENU
Select Map Mode .
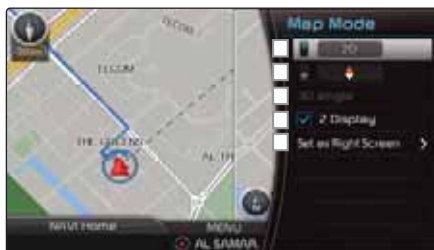
No	Name	Details
	2D/3D Map	Change map display to 2D or 3D
	Heading Up/ North Up	Displays map in vehicle Traveling Direction (Heading Up) or the North Up direction
	3D angle	Control altitude of the map in the 3D map
	2 Display	Display two screen map
	Set as Right Screen	Setting Heading Up/North Up and Zoom In/Out on the right map

ℹ Information

• If the map scale is 8mi or above the map display mode will be changed automatically to 2D North-Up.

POI

Press the MAP key   Press MENU
Select POI .

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

No	Name	Details
	POI Icons	Sets POI facilities
	Edit POI Icon	Sets the 6 POI icons to the desired genre through user editing
	Search by Local POI	Moves to Search by POI screen

Add to My Places

Press the MENU key   Select
Add to My Places .

This feature is used to save the current position or the scrolled position as a My Place.
To save the position, press the controller after selecting the desired group.

ℹ **Information**

· My Places are saved without distinction for the driving state or the scrolled state.
· To edit or delete registered mark, refer to the 'My places' section.

Destinations Search

Destinations Search

No	Name	Description
	Search by Address	Destination search by entering the street/Tower, City and country
	Search by POI	POI searches for current position/scroll position/ destination/region
	Previous Destinations	Destination guidance for recently set locations
	Previous Start Position	Destination guidance for recently set start position
	Previous Searches	Destination guidance for recently searched locations
	Emergency	Used to search nearby Police station, Hospital, Auto Services from current position
	My Places	Destination guidance for recently added My Places
	Intersection	Used to search destinations by selecting streets/ intersections
	Phone Number Search	Destination search by entering the phone number
]	Coordinates	Destination search by entering latitude and longitude
]	Previous Map	Moves to previous map screen
]	Quick menu	Moves to Quick menu
]	Favorites	Displays Home/Office/Favorites list

3-10

Quick Menu

Press the DEST key   Press the ⬜

Quick Menu button.
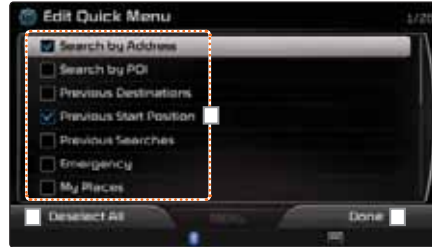
These menus allow you to set frequently used menu to Quick List.

To add or delete Quick list, press the Edit quick menu .

No	Name	Details
	Quick Lists	Registered Quick menu lists
	Edit Quick Menu	Add and delete Quick menu lists
	Menu Lists	Editable Quick menu lists
	Deselect All	Unmark all selected Quick menu
	Done	Finishes editing Quick menu

ℹ **Information**

• Among 20 quick menus, Up to 7 quick menu can be added to Quick menu.

Favorites

Press the [DEST] key   Press the [▭]

Edit Favorites Place button.
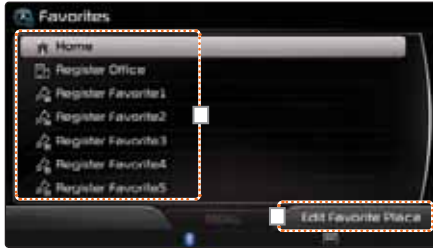
This feature is used to register frequently visited positions to favorites.

Press the [▭] Edit Favorite Place to add or delete favorites.

No	Name	Details
	Favorites Lists	Registered Favorites lists
	Edit Favorites Place	Adds edit, and deletes Favorites
	Menu Lists	Editable Quick Menu lists

Address Search

Press the DEST key   Select
Search by Address .

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

No	Name	Details
	Street/ Tower	Destination search by entering the street/Tower
	Select City	Destination search by entering the city name
	Country	Selects country

POI Search

Press the DEST key   Select
Search by POI   Select the desired
Category.
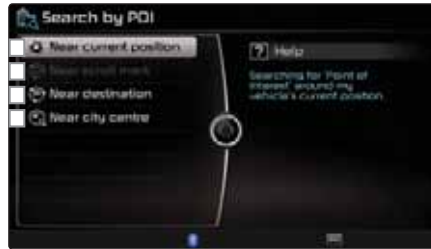
This search feature is used to search destinations by criteria, such as Near current position, Near scroll mark, and Near destination.

No	Name	Details
	Near Current Position	Search POIs around the vehicle's current position
	Near Scroll Mark	Search facilities based on the current scrolled position
	Near Destination	Search facilities based on the location of the destination
	Near city centre	Search facilities based on the selected location
	Category	Select POI categories
	POI Mark	Select POI marks

Destinations Search

Previous Destinations

Press the `DEST` key   Select

`Previous Destinations` .

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

Previous Start Position

Press the `DEST` key   Select

`Previous Start Position` .

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

Previous Searches

Press the `DEST` key   Select

`Previous Searches` .

These search features allow you to search previous searches to set as destinations or way-point.

Emergency

Press the `DEST` key   Select `Emergency` .

This menu is used to search nearby police stations, hospitals, dealer shops.

My Places

Press the `DEST` key   Select `My Places` .

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

No	Name	Details
	Sort	Sort POIs and locations by name/symbol/date
	Add	Adds a new place to My Place group
	Edit	Edits selected place
	Delete	Deletes selected place
	Delete All	Deletes all registered places
	Edit group name	Edits My Places group name

Destinations Search

Intersection

Press the DEST key   Select Intersection .

This feature is used to set intersections as destinations by searching for the names of two streets and finding where they intersect.

Phone Number

Press the DEST key   Select Coordinates .

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

i Information

- The telephone number and location may not the same for some POIs. In addition, the following types of facilities may be more frequently located in other locations.
- Locations of department stores, museums, and amusement parks may somewhat differ from the set destination. Check the exact address when trying to reach such destinations.
- Within general information newspapers, there are cases when phone numbers of concert halls list the numbers of managing companies. In such cases, searches will be to the managing company.
- The telephone number and addresses may change at any time.

3-16

Coordinate

Press the `DEST` **key**   **Select** `Intersection` **.**

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

ℹ️ **Information**

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

Previous Map

Press the `DEST` **key**   **Select** `Previous Map` **.**

The previously displayed position is displayed on the map and the scrolling functions are available.

No	Name	Details
	Set as Destination	Sets the facility or position where the cursor is positioned as the new destination
	Add Waypoint	Sets the facility or position where the cursor is positioned as a waypoint
	Add to My Places	Marks the facility or position where the cursor is positioned
	POI	Sets destination by searching POI
	Call	Making a phone call to the facility or position where the cursor is positioned

Destinations Search

Set as Destination

Press the DEST key
Select Search by Address   Search destination
and press Set as Destination .

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

<Alternative Route>

<Route Overview>

Within the Route Overview or Alternative
Route screen, press the MAP key or select
the Start Guidance button to begin guid-
ance. To add another destination, press the
Add Waypoint button.

ℹ **Information**

- The Alternative Route display can be turned off
  at   Navi Setup   Route Search   Use
  Alternative Route Search.
- If you select the Set as Destination button
  while a previous destination has already been
  set, the pop-up 'Do you want to change the desti-
  nation?' is displayed.
- If you select Yes , then the previous destina-
  tion is deleted and the new destination is set.
- If you select [Add Waypoint], then a new waypoint
  is added.
- To learn more about 'Alternative Route', 'Route
  Overview' or 'Detailed Route Settings', refer to
  the 'Route Menu' section.

Simulation

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

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

ℹ️ **Information**
• Simulation will not operate after route guidance has begun. When wishing to use the Demo feature, please use after route calculation but prior to receiving route guidance.

Simulation

In the map screen   Press the MENU key Select Edit Waypoint .

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

Destinations Search

Route Options

In the map screen ➡ Press the [MENU] key ➡
Select [Route Options] .

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

ℹ️ Information

- For more information on Fastest, Shortest, and
  other calculating options, refer to the "Route
  Option" section.

Cancel Route

In the map screen ➡ Press the [MENU] key ➡
Select [Cancel Route] ➡ Select [Yes] .
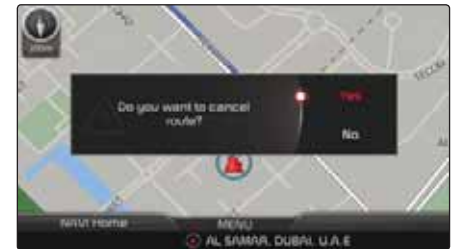
The currently calculated route is canceled and
deleted.

Route Guidance

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

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

ℹ️ **Information**

• Within all guidance mode screens, pressing [▭] Guidance Mode button will change the route guidance mode.

• Each time the [▭] Guidance Mode button is selected, the guidance mode will change in order of single screen Highway guidance(when available) turn list mode.

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

Preliminary Guidance Mode

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

Destinations Search

Intersection Zoom Mode

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

Turn List Mode

This mode shows turn information on the route.

Motorway Mode

<All>

<Summary>

<Rest Area>

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

Selecting the **All** , **Summary** , **Rest** at the top right side of the screen will change the route guidance mode between All Exit on route, and maneuver exits. Press the controller left/right to switch display mode and press controller in to check POI info list.

Route Menu

No	Name	Details
	Cancel Route	Cancels the currently set route
	Route Overview	View route overview to the current destination
	Route Option	Route calculation features that include various route calculation options and settings
	Edit Waypoint	Add/delete/change order of destinations/waypoints
	Destination Info.	Shows the estimated arrival time and remaining distance to the destination
	Route Info.	Detailed info on the route to the current destination and provides detour routing options
	Avoid Area	Edit route by adding Avoid Areas/Editing Avoid Areas and Deleting Avoid Areas

Canceling the Route

In the map screen ▶ Press the [⬚] NAVI Home button ▶ Select [Route] ▶ Select [Cancel Route] ▶ Select [Yes].

The currently calculated route is canceled.

Route Overview

In the map screen ▶ Press the [⬚] NAVI Home button ▶ Select [Route] ▶ Select [Route Overview].

No	Name	Details
	Start Guidance	Starts route guidance to the destination
	Edit Waypoint	Add/delete/change order of destinations/waypoints
	Route Info.	Route guidance information to the set destination and calculate detours
	Alt. Route	Displays various alternative route options to select the desired route calculation method
	Simulation	Route simulation to the set destination

Within the Route Overview screen, pressing the [Alt. Route] button or setting 'Calculate Alternative Routes upon Calculation' within Navigation Setup will display alternative routes on the screen.

Route Menu

No	Name	Details
	Fastest	Recommended route that reflects distance and traffic conditions
	Shortest	The shortest distance from start point to destination

Route Option

In the map screen   Press the ⬜ NAVI
Home button   Select Route   Select
 Route Option .

Fastest

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

Shortest

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

Advanced Settings

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

No	Name	Details
	Minimize Motorway	Route calculation with minimal use of Motorways
	Minimize Toll Roads	Route calculation with minimal use of toll roads
	Use Ferries	Route calculation by in-cluding/not including ferries

Edit Waypoint

In the map screen　　Press the ⬚ NAVI Home button　　Select Route　　Select Edit Waypoint .

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

Destination Info

In the map screen　　Press the ⬚ NAVI Home button　　Select Route　　Select Destination Info .

This feature shows the estimated arrival time, remaining distance, waypoint information, and map of the destination.

Route Menu

Route Info

In the map screen ▶ Press the 🔲 NAVI Home button ▶ Select Route ▶ Select Route Info. .

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

If you press the Detour button, you can set the size of the area to detour in 1/2/5/10 km units. A route will be calculated by avoiding the set distance starting from the current position.

Avoid Area

In the map screen ▶ Press the 🔲 NAVI Home button ▶ Select Route ▶ Select Avoid Area .

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

No	Name	Details
	Edit Name	Edit name of Avoid Area
	Edit	Edit size and area of Avoid Area
	Delete	Delete set Avoid Area
	Apply Avoid	Avoid the set area
	Done	Finalize setting

NAVI Setup

No	Name	Details
	Main	Displays options related to Units display/Estimated time of/Distance and Time to/Select Voice/Driving Speed/Previous Destination Display
	Display	Displays options related to route indicator line color/map font size/map color and trace features
	Route Search	Displays route calculation options related to calculating alternative routes and upon route recalculation
	Guidance	Displays options related to camera alert guidance/driver alert guidance
	Defaults	Displays options used to initialize settings/initialize saved information

Main

In the map screen ▶ Press the [🔲] NAVI Home button ▶ Select NAVI Setup ▶ Select Main .

These menus are used to set general options related to Navigation mode.

No	Name	Details
	Unit	This option is used to set the unit when displaying the vehicle speed
	Estimated Time of	This option is used to set the estimated arrival time or the remaining time to the destination.
	Distance and Time to	This option is used to set the distance and time to the destination or waypoint
	Select a Voice	This option is used to set the navigation voice.
	Driving Speed Setting	This option is used to set the estimated travel speeds within normal roads and motorways.
	Display Previous Destinations	This option is used to set whether to display previous destinations upon starting the Navigation
	Search for Gas Stations	This option is used to set whether to automatically search for gas stations when fuel is low.

Display

Press the [🔲] NAVI Home button ▶ Select NAVI Setup ▶ Select Display .

These menus are used to set options displayed within the Navigation screen.

No	Name	Details
	Route Indicator Line	This feature is used to set the color of the route indicator line.
	Map Font Size	This option is used to set the size of the font shown in the map between 3 levels.
	Map Display	The map color can be set according to Day/Night/Auto modes.
	Trace	This option is used to set whether to display the trace on the map.

NAVI Setup

Route Search

Press the [⬜] NAVI Home button
Select [NAVI Setup]   Select [Route Search] .

No	Name	Details
	Use Alternative Route Search	Search for alternative routes when calculating routes.
	Upon recalculation, Display routing options	Sets whether to display routing options upon re-calculating routes.

Guidance

Press the [⬜] NAVI Home button
Select [NAVI Setup]   Select [Guidance] .

These menus are used to set guidance options related to cameras, speed traps, and other safety matters.

No	Name	Details
	Camera Alert Guidance	This option is used to set whether provide guidance in various conditions.
	Driver Alert Guidance	This option is used to set whether provide guidance in various driving conditions.

Default

Press the [⬜] NAVI Home button
Select [NAVI Setup]   Select [Default] .

This menu is used to reset saved changes and user preferences for curve and Merge warnings.

No	Name	Details
	Initialize Settings	This option is used to initialize previous set navigation settings back to the default state
	Memory points	This option is used to initialize all searched lists, memory points and saved navigation information

GPS Info

About GPS

GPS (Global Positioning System) is a system developed and operated by the United States which determines the current location of the user (longitude · latitude, etc) by generally using 3 or more satellites.

This system is used with related GPS information, various sensors, road map data, and other related information for the purposes of navigation.

ℹ️ **Information**

- For continued map updates, information collection and surveys are continuously being conducted to check for changes to roads and new road construction. Nonetheless, roads, facilities, and fares are under constant change. Consequently, it is impossible to completely delete any errors, including road updates, names, facilities, and fares. Keep such matters in mind when using GPS.
- Roads with widths less than 3m are not included within the map data. Roads including sections with widths less than 3m may be deleted upon updating the map data

When GPS information cannot be used

GPS information may not operate under the following conditions.

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

Errors unavoidable due to system characteristics

The navigation system uses GPS information, various sensors, road map data, and other related information to display the current position.

Errors may occur if the satellite is transmitting inaccurate signals or if which can only two or less satellite signals can be received.

Errors which occur in such conditions cannot be corrected.

GPS Info

GPS Info

GPS Info

In the map screen ▶ Press the [⬚] NAVI
Home button ▶ Select [GPS Info.] .

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

Map Landmarks and Logos

Logo/Landmark

Logo

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.

Category	Sub-category	Icon
Restaurant	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	
	Vegetarian Food	

Category	Sub-category	Icon
Restaurant	Seafood	
	Coffee Shop	
	Other	
Automotive	Automotive	
	Hyundai Auto Service	
	Kia Auto Service	
	Hyundai Dealership	
	Kia Dealership	
	Auto Service	
	Automobile Dealership	
	Parking	
	Petrol Station	
	Rest Area	
	Frontier Crossing	
	Motorcycle Dealership	
Travel	Travel	

Category	Sub-category	Icon
Travel	Airport	
	Hotels	
	Other accommodation	
	Tourist Office	
	Tourist Attraction	
	Historical Monument	
	Camp Ground	
	City Centre	
	Rent A Car Facility	
	Bus Station	
	Railway Station	
	Ferry Terminal	
Shopping	Shopping	
	Shopping Centre	
	Department Store	
	Grocery Store	

Map Landmarks and Logos

Category	Sub-category	Icon
Shopping	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	
	Bowling Centre	
	Golf Course	
	Ice Skating Rink	
	Recreation Facility	
	Sports Activity	

Category	Sub-category	Icon
Recreation	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	
	Embassy	
	Exhibition or Conference Centre	
	Government Office	
	Library	
	Place of Worship	

Category	Sub-category	Icon
Public places	Post Office	
	School	
	University or College	
ETC	ETC	
	Business Facility	
	Resident'l Area/Bldg	
	Cemetery	
	Industrial Zone	

2D Landmark

Category	Sub-category	Icon
	Airport	
	Park	
	Golf course	
	University	

4 Bluetooth®

Before Use

Before Using the Bluetooth® Handsfree

What is Bluetooth®?

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

⇨ Supported within PCs, external devices, Bluetooth® phones, PDAs, various electronic devices, and automotive environments, Bluetooth® allows data to be transmitted at high speeds without having to use a connector cable.

⇨ Bluetooth® Handsfree refers to a device which allows the user to conveniently make phone calls with Bluetooth® mobile phones through the multimedia system.

⇨ Bluetooth® Handsfree may not be supported in some mobile phones.

Precautions for Safe Driving

⇨ Bluetooth® Handsfree is a feature that enables drivers to practice safe driving. Connecting the head unit with a Bluetooth® phone allows the user to conveniently make and receive calls and use contacts. Before using Bluetooth®, carefully read the contents of this user's manual.

⇨ Excessive use or operations while driving may lead to negligent driving practices and result in accidents. Refrain from excessive operations while driving.

⇨ Viewing the screen for prolonged periods of time is dangerous and may lead to accidents. When driving, view the screen only for short periods of time.

Cautions when connecting a Bluetooth® Phone

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

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

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

⇨ If you do not want automatic connection with your Bluetooth® device, turn off the Bluetooth® feature within your mobile phone.

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

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

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

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

⇨ If the Bluetooth® audio is not operating, go to PHONE Settings Bluetooth Audio. If the feature is set to Off , turn On and try again.

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

⇨ Bluetooth® connection may become intermittently disconnected in some mobile phones. Follow these steps to try again.
  1. Within the mobile phone, turn the Bluetooth® function 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 multimedia system and try again.
  5. Delete all paired devices, pair and try again.

⇨ Handsfree call quality and volume may differ depending on the model of your mobile phone.

Before Use

Starting Bluetooth®

Press the `PHONE` key.

Pairing and Connecting a Phone

When no phones have been paired

Press the `PHONE` key ▶ Press the `⬜` Add New button ▶ Enter passkey in Bluetooth® device.

When the 'Search from Phone' screen is displayed, search for the system on your mobile device and enter the passkey. The default passkey is set to '0000'.

i Information

· Press the ⌈ Help ⌋ button on the screen to view the help section with information related to pairing and connecting Bluetooth® devices, and using Handsfree related features.

· To learn more about searching from Bluetooth® devices and pairing, refer to the user's manual for your Bluetooth® device.

· If the system becomes unstable or the authentication popup is not displayed due to some communication error, please wait or reset the Bluetooth® device and try again.

When a phone is already paired

Press the ⌈ PHONE ⌋ key   Select the Connections button.

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.

i Information

· Bluetooth® features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth® device.
  - Outgoing/Incoming Handsfree calls
  - Operations during a call (Switch to Private, Switch to call waiting, MIC on/off)
  - Downloading Call History
  - Downloading Mobile Contacts
  - Bluetooth® device auto connection
  - Bluetooth® Audio Streaming

· Up to five Bluetooth® devices can be paired to the Car Handsfree system.

· Only one Bluetooth® device can be connected at a time.

· Other devices cannot be paired while a Bluetooth® device is connected.

· Only Bluetooth® Handsfree and Bluetooth® audio related features are supported.

i Information

• Normal operations are possible only within devices that support Handsfree or audio features, such as a Bluetooth® mobile phone or a Bluetooth® audio device.

• If a connected Bluetooth® device becomes disconnected due to being out of communication range, turning the device OFF, or a Bluetooth® communication error, corresponding Bluetooth® devices are automatically searched and connected.

• If the system becomes unstable due to communication errors between the car Handsfree and the Bluetooth® device, reset the Bluetooth® and try again. Upon resetting Bluetooth®, the system is restored to its factory release state.

• To pair a new device, first disconnect the currently connected device.

Disconnecting a Device

Select the device you want to disconnect Press the [▭] Disconnect button.

The currently connected Bluetooth® device is disconnected.

Delete a Device

Select the device you want to delete Press the [MENU] key Select [Delete].

A device cannot be deleted when it is connected.

To delete a paired device, first disconnect the Bluetooth® connection.

Press [Delete All] to delete all paired Bluetooth® devices.

i Information

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

Dial Mode Screen

Dial Mode Screen

Dialing a Number

Press the PHONE key   Select the Dial Number button.

During a call

No	Name	Description
	Number Field	Shows entered numbers
	Send	Calls the number
	End	Ends the current call
	Search	Moves to the contacts search screen
	Dial Pad	Used to enter/delete numbers
	MENU	Displays popup menu
	Call Connection Info	Displays the other party's name/number, call time, battery strength/reception level
	Private	Switches call to the mobile phone
	MIC Off	Mutes call volume

🛈 **Information**

· The mobile phone battery and signal strength icons may not be supported in some mobile phones.

· The remaining battery level displayed on your mobile phone battery icon may slightly differ with the device display.

· The speed dial feature may not be supported in some mobile phones.

· The name of the other party is displayed if the other party's number is saved within your contacts. If not, only the phone number is displayed.

Using Bluetooth®

Using Bluetooth®

Making a Call

Turn the controller left/right to dial num-bers
Press the [⬛] Send button.

If you Press the [⬛] Send button without entering a number, the Call History screen is displayed.
Select the [⬛] button to delete dialed numbers.
Press and hold the dial pad +0 (over 0.8 sec-onds) to enter a "+".

i **Information**
• Some features will not operate during a Bluetooth® Handsfree call.

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.
• The speed dial feature may not be supported in some mobile phones.

Calling through Redial

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

A call is made to the most recently called num-ber.

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

Answering a Call

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

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

ⓘ Information

• When the incoming call pop-up is displayed, most functions within AV mode will not operate.

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

Rejecting a Call

Incoming call notice   Press the [📞 Reject] button or press the [☎] key on the steering remote controller.
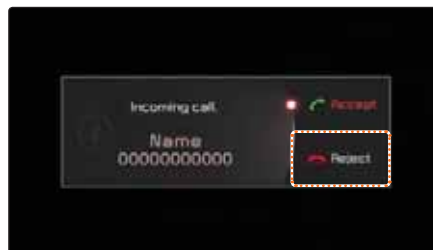
The incoming call is rejected.

ⓘ Information

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

Operating features during a Call

Switching Call to 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.

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.

End a Call

While on a call   Press the 　　 End
button or press 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 or press the [⬜] Switch button on the Phone screen.

No	Name	Description
	Hold 1st call	Places current call on call waiting and answer new call
	End 1st call	Ends current call and answer new call
	Reject	Rejects new call and maintains current call
	Switch	If there is a call waiting, switches to the waiting call

ℹ️ 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 Call Waiting feature may not be supported in some mobile phones.

Turning MIC On/Off

While on a call Select [MIC Off] .

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

Contacts

Adjusting Ring/Call Volume

While on a call ► Turn the ⬤ **VOL** knob on the head unit or press the VOL+ , VOL- keys on the steering remote controller ► Adjust the ring/call volume.

ℹ Information

• The call volume as heard by the other party may differ depending on your mobile phone.

Contacts

Press the PHONE key ► Select the Contacts button.

No	Name	Description
	Send	Call the corresponding number
	Search	Search contacts by name or number
	Down-load	Download contacts from Bluetooth® device
	Contacts List	List of Downloaded Contacts
	MENU	Displays popup menu

ℹ Information

• Mobile phone contacts can only be searched when a Bluetooth® device is connected.
• Up to 5,000 contacts saved in your Bluetooth® phone can be downloaded into the car contacts. Contacts that have been downloaded to the car cannot be edited or deleted on the phone.

ℹ Information

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

・ It is possible to download contacts even during Bluetooth® streaming audio.

・ When downloading contacts, the icon will be displayed within the status bar.

・ It is not possible to commence download when the contacts download feature has been turned off within the Bluetooth® device. In addition, some devices may require device authorization upon attempting to download contacts. If downloading does not normally occur, check the Bluetooth® device settings or the screen state.

・ The download feature may not be supported in some mobile phones. Check to see that the Bluetooth® device supports the download feature.

Downloading Mobile Contacts

Press the MENU key Select Download .

Contacts saved within the mobile phone can be downloaded to the car system.

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 mobile phone are simultaneously downloaded.

・ When using Contacts Sync, the contacts and call histories within your mobile phone are automatically downloaded upon connecting Bluetooth®. If you do not wish to use this feature, turn Contacts Sync Setting off.

Contacts

Searching Contacts (By Name)

Select the Search button   Select Search by Name .

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

Information
- Upon search, it is possible to search by entering a part of the name.

Searching Contacts (By Number)

Select the Search button   Select Search by Number .

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

Information
- When searching a number, it is possible to search by entering a part of the entire number.
  (ex: if you enter "1234", all numbers with "1234" will be searched.

Call History

Call History

Entering Call History Screen

Press the PHONE key   Select the Call History button.

No	Name	Description
	Received	Displays the incoming call history list
	Dialed	Displays the outgoing dial history list
	Missed	Displays the missed call history list
	Send	Dial to selected number
	Delete All	Delete entire call history

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 become saved in the call history list.

• Calling through the call history is not possible when there is no call history or the Bluetooth® phone has not been connected.

• Up to 20 received, dialed and missed calls are each saved.

• The time of received/dialed calls and call time information are not saved.

Settings

Settings

Press the PHONE key   Select the Settings button.

Auto Connection

In the Settings screen   Select Auto Connection .

If auto connection is turned on, a Bluetooth® device will automatically be connected according to the selected setting.

No	Name	Description
	Off	Disables auto connection
	Previous Phone	Automatically connects with the previously connected Bluetooth® phone
	User Selected Phone	Automatically connects to a user selected Bluetooth® Phone
	Connect by Priority	Automatically connects according to the set Bluetooth® phone priority

Ringtones

In the Settings screen   Select Ringtones .

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

• When set to ⸢ **Mobile Ringtone** ⸥, the ringtone set within the connected mobile phone will sound.

• The Mobile Ringtone feature may not be supported in some mobile phones.

• For mobile phones that do not support the Mobile Ringtone feature, the ring tone set within the system will sound.

Contacts Sync

In the Settings screen   Select
⸢ **Contacts Sync** ⸥ **.**

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

Bluetooth Audio

In the Settings screen   Select
⸢ **Bluetooth Audio** ⸥ **.**

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

Settings

Settings

Change Passkey

In the Settings screen　Select
Change Passkey .

This option is used to change the passkey needed upon connecting a Bluetooth® phone. The default passkey is set to '0000'.

Device Information

In the Settings screen　Select
Device Information .

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

Data Initialization

In the Settings screen　Select
Data Initialization .

Data Initialization is used to delete all call histories/paired phones, or initialization information related to the Bluetooth® Handsfree.

No	Name	Description
	Delete all Call Histories	Delete all dialed / received / missed call lists
	Delete All Phones	Delete all registered phones
	Factory Defaults	Reset Bluetooth® settings and data to factory state

5 INFO

Starting Mode

Press the HOME key Select the INFO button.

Climate

In the INFO Home screen Select the Climate button.

Various climate information, such as driver-side, passenger-side, and rear-side temperatures, fan level and direction are displayed.

If one of the climate keys is pressed while operating AV or Navigation mode, then the climate state bar will be displayed at the top of the screen.

No	Name	Description
	Fan Mode	Displays the fan mode
	DRIVER	Displays the driver-side temperature
	AUTO	Displays the automatic climate control On/Off state
	Fan level	Displays the set fan level
	3 ZONE	When turned on, the driver-side, passenger-side, and rear seat temperatures can be controlled independently
	PASSENGER	Displays the passenger-side temperature
	REAR	Displays the rear-side temperature
	A/C	Displays the A/C On/Off state

Basic Operation

Press the `3 ZONE` key to independently control the driver-side, passenger-side and rear-side temperatures separately.

Press the lower side `∨` of the temperature control keys to decrease the temperature and the upper side `∧` to increase the temperature.

Pressing the `3 ZONE` key again will disable 3 ZONE temperature mode and enable you to set the driver-side, passenger-side and rear-side temperatures 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℃.
• If the driver-side temperature is set to LOW or HIGH, the 3 ZONE temperature mode will automatically turn off.
• When setting the passenger-side and rear temperatures, the 3 ZONE temperature mode will automatically turn on and enable the temperatures of each area to be controlled independently.

Setting Fan Direction

Press the `MODE` keys to change the fan direction.
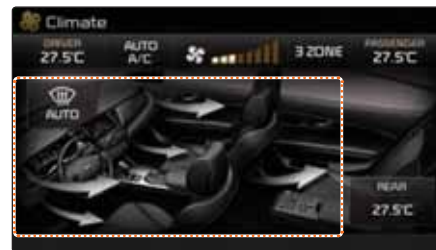
Once the fan direction is changed, the new setting is displayed on the screen.

ℹ **Information**

• The direction of the rear-side fan cannot be changed.

Setting Fan Level

Press the [⚙], [⚙] key to change the fan level.

Front Climate Control Keys

Rear Climate Control Keys

Once the fan level is changed, the new setting is displayed on the screen.

Vehicle Height (Optional)

In the INFO Home screen   Select the Vehicle Height button.

This feature displays the current vehicle height information. The vehicle height state (low, normal, high) is displayed.

ⓘ **Information**

• The vehicle height feature cannot be operated through the navigation system. The vehicle ESC switch must be used. For more information, refer to owner's manual for your vehicle.

Driving Mode (Optional)

In the INFO Home screen   Select the Driving Mode button

The current driving mode state is displayed.

No	Name	Description
	NORMAL	Balanced Ride & Control
	SPORTS	Sport Driving Dynamics
	ECO	Optimized for eco-friendly and economical driving
	SNOW	Optimized for slippery roads (Optional)

i **Information**

• This feature cannot be controlled by using the Navigation System. To use this feature, press the `DRIVE MODE` or `SNOW MODE` keys within the vehicle. To learn more about this feature, refer to your vehicle <instructional manual>.

System Settings

In the INFO Home screen   Select the System Settings button

Clock Settings

Select the `Clock Settings` button.

Time Setting

This option is used to set the time used within the AVN system.

Clock Type

When displaying the Clock in full screen, it is possible to change the Clock Type between Analog and Digital.
The digital clock can be displayed in either a 12 hour or 24 hour time formats.

GPS Time

This option is used to set time according to the received GPS time.

ℹ **Information**

• If the time on the analog clock within the vehicle is incorrect, reset the time within the multimedia system.

<How to Reset the Time>
Within System Settings, select Clock Settings
   Select ✔ GPS Time   Uncheck ■ GPS Time
   Re-check ✔ GPS Time .
• When GPS Time is applied, the GPS time is

applied after the needle within the internal analog clock completes one full revolution.

Daylight Saving Time

This option is used to set Daylight Saving Time.

Power Off Settings

Select the `Power Off Settings` button.

Power Off Settings is a feature used to set the screen displayed when the `DISP` key is pressed or when the system power is turned off.

No	Name	Description
	Clock	Displays screen as clock
	Date Display	Used to select whether to display the date within the Clock screen
	Image	Display screen as image
	Find Image	Used to select a different image
	None	Displays blank(black) screen

Locking the RSE System

Select the `■ Lock RSE System` button.

Upon turning the `☑ Lock RSE System` on, the system cannot be operated from the Rear controller.

Language

Select the `Language` button.

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

INFO

Keyboard

Select the Keyboard button.

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

No	Name	Description
	ABC	Keyboard with characters arranged in order
	QWERTY	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.

Interactive Guide

Select the Interactive Guide button.

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

Help

Select the Help button.

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

System Update

Select the ⌈ System Update ⌋ button.

After inserting the USB memory where the updated file is downloaded, press ⌈ USB Update ⌋ 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.

⚠️ **CAUTION**

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

Sound Settings

In the INFO Home screen Select the Sound Settings button.

Fader/Balance

Select the ⌈ Fader/Balance ⌋ button.

Turn the controller left/right to move the cursor on the control screen to the desired position.
Press the controller to select Fader or Balance adjustment mode.

Press and hold the controller for approx 3 seconds to restore sound to the center position.

i Information

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

Treble/Middle/Bass

Select the Treble/Middle/Bass button.

Turn the controller left/right to adjust the treble/middle/bass settings.

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

Surround (Optional)

Select the Surround button.

This option is used to turn on surround sound.

Variable EQ (Optional)

Select the Variable EQ button.

This option is used to change the sound according to user preference.

No	Name	Description
	Normal	Natural sound, sound optimized for driver.
	Dynamic	Powerful sound, emphasizing bass, stereo sound.
	Concert	Sound similar to a concert or live hall.

Auto Volume Control (AVC)

Select the Auto Volume Control button.

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

Touch Beep Tone

Select the Touch Beep Tone button.

This option is used to turn on/off the BEEP that sounds with each touch of the screen when the keyboard screen is on.

Volume Ratio

Select the Volume Ratio button.

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

No	Name	Description
	Navigation Priority	Navigation guidance output is louder than audio volume
	Audio Priority	Audio volume output is louder than the navigation guidance
	Same Ratio	Audio volume and navigation guidance output are in identical volume

Default Sound

Select the Default Sound button.

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

Display Settings

In the INFO Home screen ► Select the Display Settings button.

LCD Brightness

Select the LCD Brightness button.

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

Illumination

Select the Illumination button.

No	Name	Description
	Automatic	Adjusts the brightness automatically according to surrounding brightness
	Daylight	Always maintains the brightness on high
	Night	Always maintains the brightness on low

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

Ratio

Select the Ratio button.

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

No	Name	Description
	Normal (4:3)	4:3 screen display
	Wide (16:9)	16:9 wide screen display
	Full Screen	Full screen display

ⓘ Information
• This feature is used to set the screen ratio when playing video modes, including VCD/DVD/USB/Jukebox/AUX video modes.

- If a DVD is created with a defined ratio (example: 16:9), the screen may not be changed even if a different screen ratio (example: Normal) is selected.

Rear Display Off (Optional)

Select the Rear Display Off button.

This option is used to turn the Rear Display on/off.

Default Display

Select the Default Display button.

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

Adjusting Screen

While watching a video   Press MENU key   Select Display Settings   Select Adjust Screen .

Turn the controller left/right to adjust the screen brightness/saturation/contrast/hue.
Press and hold the controller for approx 3 seconds to restore the screen to the default setting.

ℹ️ **Information**

- The screen brightness/saturation/ contrast/hue can be adjusted only within video modes, such as VCD/DVD/USB/Jukebox/AUX video modes.

About the Rear View Camera (Optional)

↪ This system has been equipped with a rear view camera for user safety by allowing a wider rear range of vision.

↪ The rear view camera will automatically operate when the ignition KEY is turned ON and the transmission lever is set to R.

↪ The rear view camera will automatically stop operating when set to a different gear lever.

i Information

• Even while the device is booting, the camera screen is displayed once the lever is set to R.
• The camera screen displayed while booting does not include the UI displays, such as view selection/parking mode/settings.
• The camera screen displayed while booting may be slightly different as a different chipset is used.
• Once booting is complete, a flicker may occur while the device converts to the UI included screen.

1. With the ignition turned on, change the gear position to R.

⚠ CAUTION

• The rear view camera has been equipped with an optical lens to provide a wider range of vision and may appear different from the actual distance. For safety, directly check the rear and left/right sides.

About the Front View Camera (Optional)

◇ This system has been equipped with a front view camera when driving at low speeds (under 10km/h) for a wider left/right range of vision.

◇ The front view camera will operate when driving in low speeds (under 10km/h). Once the vehicle speed exceeds 10km/h, the front view camera mode will end.

◇ The front view camera will automatically operate when the ignition KEY is turned ON, the [icon] key has been pressed and the transmission lever is set to a position other than P, R.

◇ Changing the gear position to P or R or turning OFF the [icon] key will turn the front camera view screen off.

◇ The front view camera is provided together with the PGS option.

1. With the ignition turned on, press the [icon] key.
2. The front view camera mode will automatically operate when the transmission lever is set to a position other than P, R.

⚠ CAUTION

• The front view camera has been equipped with an optical lens to provide a wider range of vision and may appear different from the actual distance. For safety, directly check the rear and left/right sides.

PGS (Optional)

PGS (Parking Guide System) is a system displayed when the gear is placed in R. PGS is an optional feature equipped in select vehicles.

No	Name	Description
	Top View / Normal View conversion	Changes the view angle of the rear cameras
	Straight In Parking	Displays Straight in parking mode
	Parallel Parking	Displays Parallel parking mode
	Settings	Displays setup screens to set voice guidance, guideline displays, and steering sync features
	Steering sync guidelines	Line displayed to help with parking guidance that displays the car position and steering angle

Straight In Parking

Straight In Parking is displayed in the following way.

No	Name	Description
	Red line	0.5m from the rear bumper
	Yellow line 1	1.0m from the rear bumper
	Yellow line 2	3.0m from the rear bumper
	Yellow line 3	Trace of left-side driver-side wheels
	Yellow line 4	Trace of right-side, passenger-side wheels
	Blue line	Trace showing steering centeredness

Straight In Parking is comprised of 2 steps.

- In step 1, move the vehicle to a position to begin straight parking. Then, select the Straight In Parking 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.

i Information

- Press the [⟲] key to change the operating mode for the rear view camera.
- Once the vehicle speed exceeds 10km/h, parking assistance mode will end and the rear view camera mode is displayed.

Parallel Parking

Parallel Parking is displayed in the following way.

No	Name	Description
	Red Line	0.5m from the rear bumper
	Yellow Line	3m from the rear bumper
	Green Line	6m from the rear bumper

⚠ CAUTION

- There may be slight differences between the actual distance and the distance as shown on the screen. For safety, directly check the rear and left/right sides.

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.
- In step 2, 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 spot 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.
- In Step 3, return the handle to its initial position, slowly continue in reverse and complete parking.

Changing Rear View Angle

Press the Top or Rear button to change the rear view angle between Top View and Rear View.

When Top View is selected, the rear view angle is displayed as if looking down from above.

If Normal View is selected, the rear view angle is displayed in a customary view with a normal rear view perspective.

ⓘ Information

• Press the [↩] key to change to the previous step or to the rear view camera mode.

• Once the vehicle speed exceeds 10km/h, parking assistance mode will end and the rear view camera mode is displayed.

PGS Settings

Press the Settings button to display the PGS settings.

No	Name	Description
	Voice Guidance	Sets whether to use the Voice Guidance feature upon straight in parking or parallel parking.
	Display Guidelines	Sets whether to display parking guidelines.
	Sync Guidelines with Steering	Sets whether to use the feature that syncs the guidelines with the steering handle.

About AVM (Optional)

AVM (Around View Monitoring System) refers to a system that allows you to see the front, rear, left and right sides through the 4 cameras installed within the vehicle.

Operating the Front AVM

After turning on the ignition, shifting the gear to N or D and pressing the 🔲 key will start the Front AVM.

ℹ️ **Information**

・ Shifting the gear to P or R or turning OFF the BLIND key will turn the front AVM off.

No	Name	Description
	Front Camera Screen	Displays the front side of the vehicle on the screen through the camera
	AVM aspect camera screen	Displays the AVM or the left/right side depending on the selected option
	Front+AVM Display	Displays the front side and AVM simultaneously on the screen
	Front Display	Displays the front side on the screen
	Front+Left Display	Displays the front side and left side simultaneously on the screen
	Front+Right Display	Displays the front side and right side simultaneously on the screen
	AVM Settings	Displays AVM Settings
	Door Open Warning	Displays whether the driver-side/passenger-side doors, side mirrors, and trunk are open

Operating the Rear AVM

After turning on the ignition, shifting the gear to R will start the Rear AVM.

Changing the gear from R to a different position will turn the Rear AVM off.

Information

• The AVM camera is equipped with an optical lens to provide a wider range of vision and may appear different from the actual distance. For safety, directly check the rear and left/right.

No	Name	Description
	Rear Camera Screen	Displays the rear side of the vehicle on the screen through the camera
	AVM aspect camera screen	Displays the AVM or the left/right side depending on the selected option
	Rear+AVM Display	Displays the rear side and AVM simultaneously on the screen
	Rear Display	Displays the rear side on the screen
	Rear+Left Display	Displays the rear side and left side simultaneously on the screen
	Rear+Right Display	Displays the rear side and right side simultaneously on the screen
	AVM Settings	Displays AVM Settings
	Door Open Warning	Displays whether the driver-side/passenger-side doors, side mirrors, and trunk are open

AVM Settings

Press the ⊙ button in the Front or Rear AVM screen to display the AVM settings.

No	Name	Description
	Sync Guidelines with Steering	Sets whether to sync guidelines with the steering handle
	Front/Rear Warning	Sets whether to display warning when obstacles approach the front and rear of the vehicle within AVM view mode
	Initial Front View	Sets the initial display when entering Front AVM mode
	Initial Rear View	Sets the initial display when entering Rear AVM mode

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment 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.

IC Warning

"This device complies with Industry Canada licence-exempt RSS standard(s)."
Operation is subject to the following 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 provoquer de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.