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CAR MULTIMEDIA SYSTEM I USER'S MANUAL 영어 I English

CAR MULTIMEDIA SYSTEM I USER'S MANUAL

영어 I English

GENESIS

HYUNDAI

Thank you for purchasing this multimedia system.

This user's manual explains how to use the HYUNDAI Motor multimedia system. Before using the product, read the contents of this user's manual carefully and use this product safely.

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

Precaution for safe usage

- Driving while distracted can result in a loss of vehicle control, that may lead to an accident, severe personal injury, and death. The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any handheld devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vehicle or which are not permissible by law should never be used during operation of the vehicle.
- Do not operate the multimedia system while driving.
- Do not disassemble, assemble, or modify the multimedia system.
- Do not watch the screen for prolonged periods of time while driving.
- Set the volume to a level which allows the driver to be aware of external conditions.
- Do not operate the multimedia system for prolonged periods of time with the vehicle ignition in ACC. Such operations may lead to battery discharge.
- Be cautious not to spill water or introduce foreign objects into the device.
- Do not cause severe shock to the device. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch panel.
- In case of product malfunction, please contact your place of purchase or service center.
- When cleaning the touch screen, make sure to turn off the device and use a dry and smooth cloth. Never use tough materials, chemical cloths, or solvents (alcohol, ammonia, benzene, thinners, etc.) as such materials may damage the device panel or cause color and quality deterioration.

⚠ WARNING

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

- The rear-camera display is not a substitute for proper and safe backing-up procedures. The rear-camera display may not display every object behind the vehicle. Always drive safely and use caution when backing up.

Read the following safety cautions for your safety

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

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

※ For more information on open licenses and legal notices, refer to the website below.
http://www.mobiszone.co.kr/front/mall/jsp/manual/avn_ download_ center_manual.jsp

Notations used within this User's Manual

WARNING

- Failure to observe the instructions within this category could result in damage to the vehicle.

CAUTION

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

Information

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

NOTICE

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

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iPod®

iPod® is a registered trademark of Apple Inc.

Bluetooth® Wireless Technology

The *Bluetooth*® Wireless Technology word mark and logos are registered trademarks owned by *Bluetooth*® Wireless Technology SIG, Inc. and any use of such marks by HYUNDAI is under license.

A *Bluetooth*® Wireless Technology enabled cell phone is required to use *Bluetooth*® Wireless Technology.

About DivX video

DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that has passed rigorous testing to verify that it plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

About DivX video-on-demand

This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies.

To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

DivX Certified® to play DivX® video, including premium content.

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

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

DivX Certified® devices

DivX Certified® devices have been tested for highquality DivX® (.divx, .avi) video playback. When you see the DivX logo, you know you have the freedom to play your favorite DivX movies.

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part.1 Basic

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

01

Safety Warnings

- Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.
- Do not disassemble, assemble, or modify the Multimedia System. Such acts could result in accidents, fire, or electric shock.
- Heed caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire, or product malfunction.
- If you use phone related functions while driving, you will find it difficult to concentrate on operating the vehicle and the current traffic conditions, so the possibility of an accident may increase. Please use phone related functions only when parked.
- Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction. Continued use in such conditions could lead to accidents (fires, electric shock) or product malfunctions.
- Do not touch the antenna during thunder or lightening as such acts may lead to lightning induced electric shock.
- Do not stop or park in parking-restricted areas to operate the product. Such acts could lead to traffic accidents.
- For most Audio and multimedia modes, the display will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen.(The screen will only operate when the parking brake is ON for manual transmission vehicles and when the parking brake is ON or the gearshift is in the P (PARK) position for automatic.)
- Some functions other than the one mentioned above cannot be used while driving. These functions operate only when the vehicle is parked.

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Safety Cautions

Pay attention to traffic conditions while driving.

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

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Key Product Features

This device is a Multimedia System equipped with a multifunctional disc player that supports FM, AM, Audio CD, MP3, USB, iPod, AUX, Bluetooth Audio and My Music features. The WIDE VGA LCD provides a high quality resolution while the powerful and rich sound system adds to the driving enjoyment.

Display	Wide TFT-LCD Display • Provides high quality video through a Wide TFT-LCD Display using an LED Back Light. • Touch screen for maximum user convenience.
Radio	Digital Tuner Feature • Digital Tuner using PPL method that supports memory of 12 broadcast stations for each AM and FM modes. Radio broadcast station name • Displays broadcast station names
Multimedia Player	Support for various Media Formats • Support for various media formats, including FM, AM, Audio CD, MP3, USB, iPod, AUX and Bluetooth® Audio Streaming modes My Music • Supports copying of music stored within USB devices into My Music (internal memory) mode USB Image • Copy to view and save images saved in USB devices
Miscellaneous	*Bluetooth*® Wireless Technology • Convenient use of Bluetooth® Handsfree by using buttons within the steering wheel remote controller Digital Screen Control Features • Easy control of features through touch screen options Steering Wheel Remote Controller • Control over audio features, voice recognition and Bluetooth® through the steering wheel remote controller for maximum convenience

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Component Names and Functions

Head Unit

	Name	Description
1	PWR/ VOL	• When power is off, press to turn power on • When power is on, press and hold (over 0.8 seconds) to turn power off • When power is on, press shortly (under 0.8 seconds) to turn Audio off • Turn left/right to control volume
2	⏏	Press to insert or eject disc
3	RESET	Resets the system settings. (Preset radio channels and other data will not be deleted.)

	Name	Description
4	TUNE	• FM/AM mode : changes the frequency • MEDIA (Disc/USB/iPod/My Music) mode : changes the track, file or title(except USB Image, Bluetooth Audio and AUX)
5	HOME	Converts to HOME mode
6	FM	Converts to FM mode • Each time the key is pressed, the mode is changed in order of FM1 → FM2 → FM1
7	AM	Converts to AM mode

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Head Unit

	Name	Description
8	MEDIA	Converts to MEDIA mode • If the media is not connected or is or CD player not available for Model, Media mode will not be activated. • Press this key to move to the last mode that you accessed in Media. Press it once again to display the screen where you can select a Media mode.
9	DISP	Turns the screen on/off.

	Name	Description
10	SEEK TRACK	When key is pressed shortly. (under 0.8 seconds) • FM/AM mode : plays previous/next frequency • MEDIA (Disc/USB/iPod/My Music) mode : changes the track, file or title (except USB Image and AUX) When key is pressed and held. (over 0.8 seconds) • FM/AM mode : continuously changes the frequency until the key is released • MEDIA (Disc/USB/iPod/My Music) mode : rewinds or fastforwards the track or file (except USB Image, Bluetooth Audio and AUX)
11	PHONE	Takes user to phone screen
12	INFO	Displays the Info mode screen
13	SETUP	Displays the Setup mode screen

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Steering Wheel Remote Controller

	Name	Description
1	VOL+ VOL-	Controls the volume
2	MODE	• Each time this key is pressed, mode is changed in order of FM1 → FM2 → AM → Disc → USB (Music → Video) or iPod → AUX → Bluetooth Audio → My Music • If the media is not connected, corresponding modes will be disabled • Press and hold the key (over 0.8 seconds) to turn the Audio system on/off • When power is off, press the key to turn power back on
3	∧ ∨	When keys are pressed shortly. (under 0.8 seconds) • FM/AM mode : searches broadcast frequencies saved to Presets • MEDIA(Disc/USB/iPod/My Music) mode : changes the track, file or chapter (except USB Image, and AUX) When keys are pressed and held. (over 0.8 seconds) • FM/AM mode : Automatically searches broadcast frequencies • MEDIA(Disc/USB/iPod/My Music) mode : Quickly looks up songs (excluding USB images, AUX, and Bluetooth audio files)
4	🔇	The sound stops playing. Press again to unmute.

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Steering Wheel Remote Controller

	Name	Description
5		When pressed shortly. (under 1.2 seconds) • When pressed in the dial screen, makes a call • When pressed in the incoming call screen, answers the call • When pressed during call waiting, switches to waiting call (Call Waiting) When pressed and held. (over 1.2 seconds) • When pressed in the Bluetooth® Handsfree, redials the last call • When pressed during a Bluetooth® Handsfree call, switches call back to mobile phone (Private) • When pressed while calling on the mobile phone, switches call back to Bluetooth® Handsfree (Operates only when Bluetooth® Handsfree is connected)
6		• When pressed during a call, ends the phone call • When pressed in the incoming call screen, rejects the call

※The actual feature in the vehicle may differ from the illustration.

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Rear Control Keys

	Name	Description
1	POWER	• When power is off, press to turn power on • When power is on, press and hold (over 0.8 seconds) to turn power off • When power is on, press shortly (under 0.8 seconds) to turn Audio off
2	FM	Activates FM mode.
3	AM	Activates AM mode.
4	MEDIA	Converts to MEDIA mode • If the media is not connected or is or CD player not available for Model, Media mode will not be activated. • Press this key to move to the last mode that you accessed in Media. Press it once again to display the screen where you can select a Media mode.

	Name	Description
5	MODE	• Each time this key is pressed, mode is changed in order of FM1 → FM2 → AM → Disc → USB (Music → Video) or iPod → AUX → Bluetooth Audio → My Music • If the media is not connected, corresponding modes will be disabled • Press and hold the key (over 0.8 seconds) to turn the Audio system on/off • When power is off, press the key to turn power back on
6	DISP	Turns the screen on/off. • The sound continues playing. Only the monitor is turned off. Press again to turn it on.

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Rear Control Keys

	Name	Description
7	MUTE	The sound stops playing. Press again to unmute.
8	SEEK / TRACK	When key is pressed shortly. (under 0.8 seconds) • FM/AM mode : plays previous/next frequency • MEDIA (Disc/USB/iPod/My Music) mode : changes the track, file or title (except USB Image and AUX) When key is pressed and held. (over 0.8 seconds) • FM/AM mode : continuously changes the frequency until the key is released • MEDIA (Disc/USB/iPod/My Music) mode : rewinds or fastforwards the track or file (except USB Image, Bluetooth Audio and AUX)

	Name	Description
9	CH / CH	Changes the channel • FM mode : move between presets. • MEDIA mode: change track (except for USB image and AUX).
10	VOLUME	Controls the volume

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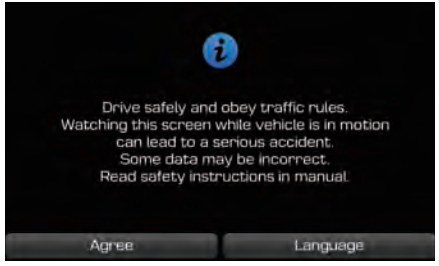
Starting the System for the First Time

Turning the System On/Off

Press the engine start button or set the ignition key to On or ACC. Each time you turn on the system, a boot logo and safety warning will appear.



Pressing the power key on the head unit will display the user agreement screen.

NOTICE

- Cannot operate the system while it is booting up. It may take some time for all of features of the system, particularly the voice recognition system, to be ready for use.

Pressing and holding the power key on the head unit will turn off the system.
You can change Screen Saver Settings in Setup to display a clock or another chosen image on the Screen Saver.

Information

- If you turn off the system during a phone call using the hands-free feature, then the call will automatically switch to your mobile phone.

NOTICE

- Check the volume when turning on the system. Before turning on the system, adjust the volume to a reasonable level.

System Reset

The System Reset function restores the system when it is malfunctioning. Press and hold the RESET key for a second or longer. (It is recommended that you press the RESET key using a tool, such as a pin or a clip.)

NOTICE

- Resetting the system restores all existing settings and configurations (e.g. volume, display, etc.) back to their factory defaults. This is not a system defect. It occurs because the information stored in memory is reset back to factory settings as a normal process of resetting the system.

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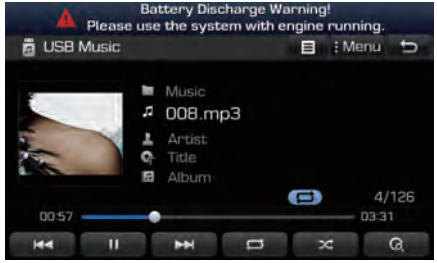
Battery Warning Message

Always use the system while the car engine is running. If you turn on the system while the engine is off, a battery warning message will appear. When the engine starts, the message will disappear.

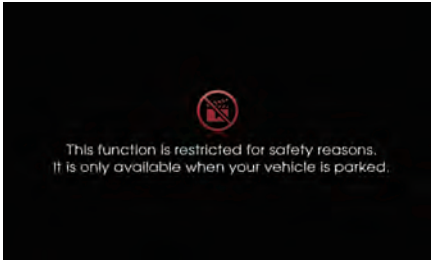


NOTICE

- If you use the system for a long time with the engine off, the battery may become completely empty.

Restrictions on Features for Safety Measures

If you try to use such features as video modes that distract you from driving, the system turns the screen off or the function will be disabled and then the related warning message will appear. Even when the video is off, the audio player is not affected. The restriction screen will disappear when shifting gears into P or putting the parking brake on.



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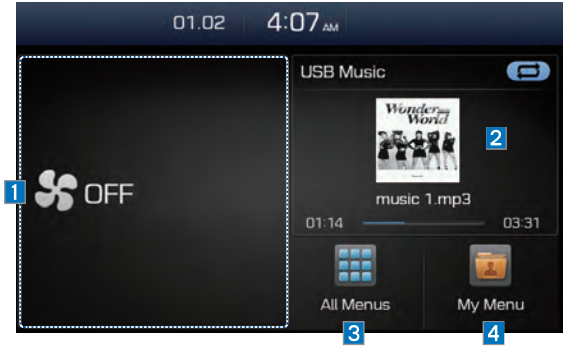
Home Screen

Controls Menu Configuration for the Home Screen



Features	Description
1 Climate/Clock Widget	Provides brief information on the climate status (if available) nor provides the current time information.
2 AV Widget	• Shows brief information on the radio media currently playing. • Touch the area to move to the mode for what you are listening to.
3 All Menus	Shows all of the items in the system menu.
4 My Menu	• You can add and save up to eight menu items. • Add your favorite menu items to have quick and easy access to them.

Information Display on the Status Bar

Displays the date and time, along with the system status shown by the various icons to the right of the clock.

The icons in the following table indicate the various types of system status details and events.

	AV-Mute	Making a call and Bluetooth connection				RSE (optional)
ICON	Audio					
Description	Mute AV sound	Bluetooth phone remaining battery	Handsfree connection	Making a call using BT phone	Bluetooth phone reception sensitivity	RSE locked
ICON						
Description			Connecting to music stream			
ICON						
Description			Handsfree+ streaming connection	Mute Bluetooth phone micro-phone		
ICON						
Description			Downloading contacts/ recent calls			

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Adding Your Favorite Menu Items to My Menu

From the Home screen, select My menu ▶ and then Edit .

From the My Menu Settings screen, select menu items from the list on the right, then drag and drop them to a desired place on the left.

On the other hand, if you drag items from the left and drop them on the right, they will be deleted from My Menu instead.

Information

- Up to eight items can be added to My Menu.

On-Screen Touch Controls

Learn how to touch the screen to operate the system.

Select

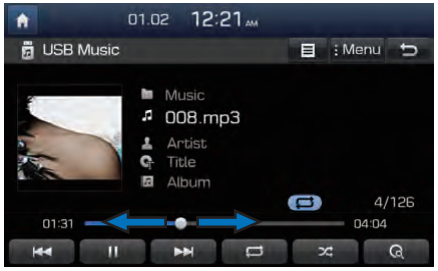
Tap lightly on a menu or an item to select it.

NOTICE

- The system will not recognize your touch if you wear a glove or other non-conductive material. Touch the screen using your finger, an electrostatic touch-screen glove, or a stylus pen.

Drag & Drop

Select a menu or item you want, then drag and drop it to where you want to place it.



Drag or touch the slider along the play bar in the music screens to jump to the point that you want to play from.

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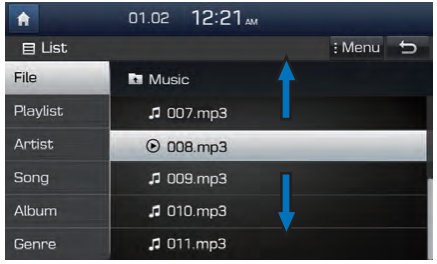
Drag the frequency bar to the left or right to move to the frequency that you want.

From the My Menu Settings screen, drag and drop icons to add, delete, or move to/ from My Menu.

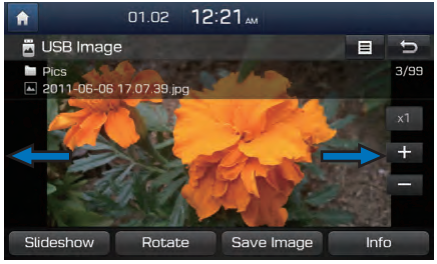
Flick (Quick Scrolling)



Quickly moves up and down in the list.

NOTICE

- Moving the list when there are many items will display a handler on the right of the display. You can easily move many items at a time with the handler



You can view the previous or next image by flicking left/right on an image on the USB Image screen.

Flick left/right on the frequency bar in the radio player to look up the previous/next frequency available.

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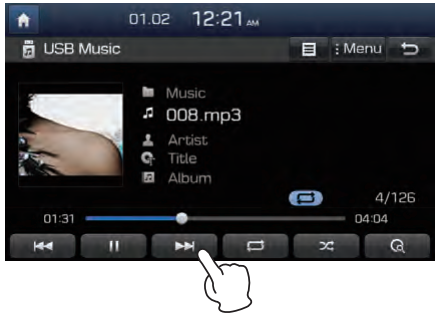
Press and Hold

Pressing the ⏮ and ⏭ buttons in the music or video player will fast forward/rewind the music or video.



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02

part.2 About Using AV

FM/AM Mode
Media Mode
About Disc
CD mode
Using MP3 mode
About USB
About iPod
AUX
Bluetooth® Audio Mode
My Music

About Using AV

FM/AM Mode

Accessing FM/AM Mode

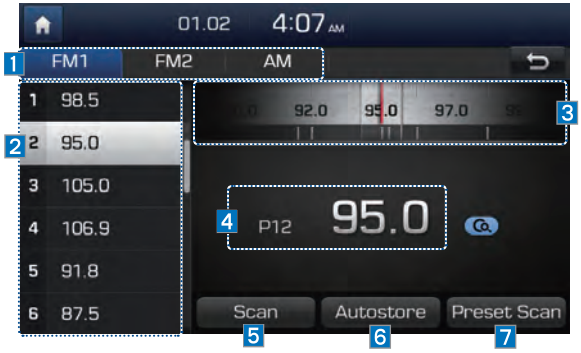
You can access the radio player either by pressing the FM , AM key or by selecting the Radio menu option from All Menus on the Home screen.

Information

- If you press the FM , AM key when the power is off, then the power will turn on and a radio broadcast will be tuned up.
- If you are in the FM/AM Mode, select the FM/AM radio widget from the Home screen to access the radio player.

H_DH_G4.5[L]AV PART2.indd 2-2 2014-07-02 오후 5:07:1

FM/AM Mode Display Controls



Features	Description
1 Mode Display	• Displays currently operating mode. • If select wanted mode tap, it will change to selected mode in Radio.
2 Preset	• Shows saved presets for user selection. • After selecting frequency → press and hold (over 0.8 seconds) the preset button. A 'beep' will sound and the frequency is saved to the selected preset button. *i* A total of 36 frequencies with 12 preset frequencies each for FM1/FM2/AM modes can be saved.
3 Frequency bar	• Flick the frequency bar left/right to search for available radio channels to the left or right of the current channel. • Dragging : Drag the frequency bar to the left/ right to find the radio channel that you want.
4 Frequency	Displays the current frequency.
5 Scan	Plays frequencies with superior reception for 5 seconds each
6 Autostore	Saves frequencies with superior reception to Preset buttons *i* While Autostore is operating, pressing the Autostore button again will cancel the func tion and play the previous frequency.
7 Preset Scan	Plays preset frequencies for 5 seconds each.

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Features	Description
8 SEEK/TRACK	• Pressing this button briefly (less than 0.8 seconds) : Seeks the previous/next station or frequency. • Pressing and holding this button (longer than 0.8 seconds) : Moves quickly through all of the frequencies. From the moment that you release the button, the system will seek the next available frequency.
9 TUNE	Turn the TUNE knob to manually seek available frequencies. • FM1/FM2 : Increment/decrement by 100kHz • AM : Increment/decrement by 9kHz

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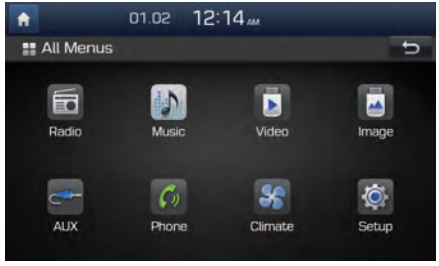
Media Mode

Starting Mode

1. From All Menus, select an icon you want from “Music, Video, Image, AUX” to enter the last mode you used.



2. You can enter the Media mode that you recently used by pressing the Media hard key while in another mode.
3. To go to a different mode after you enter Media mode, press Media and choose the one you want from.

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About Disc

Precautions upon Handling Discs

CAUTION

- 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 defo mation.
- Upon playing a disc contaminated by dirt or other substances, the sound quality may deteriorate and result in skipping sounds. Writing on either side of the disc could result in damage to disc surfaces.
- Clean fingerprints and dust off the disc surface (coated side) with a soft cloth.
- Copy-protected CDs, such as S-type CDs, may not properly operate in the device. DATA CDs cannot be played. (However, such discs may still abnormally operate.)
- Do not disassemble the device. Contact a designated service center in case of malfunction. (Complete after service assistance will not be provided if the user disassembles the device.)
- Do not use water to clean the device. Exposure to water could lead to product malfunction.
- Do not to introduce foreign substances into the disc insert/eject slot. Introducing foreign substances could damage the device interior.
- The device may fail to properly operate in extremely hot or cold temperatures. (The operating temperature range is : -20˚C ~ 70˚C)
- Steam can become condensed on the fiber-optic lens due to rain, wet conditions, or upon operating the heating system. In such cases, discs may not be properly recognized. Remove the disc and wait until the moisture dries.
- Skipping may occur during audio play when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle. In case of severe shock, audio may not properly play.

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Supported Disc Formats

This device supports the following disc formats.

Disc Type

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

Disc Format

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

Disc/Content Format Compatibility

By Format according to Disc Type

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

Ordinary Disc Compatibility

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

Audio-CD

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

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CD-R/RW Compatibility

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

PC-created Disc Compatibility

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

Cautions upon Writing CDs

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

Compressed Audio Compatibility

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

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

Before Playing an MP3 Disc

Supported MP3 File Specification

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

Recommended Bit Rates and Frequency

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

NOTICE

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

Detailed Specification

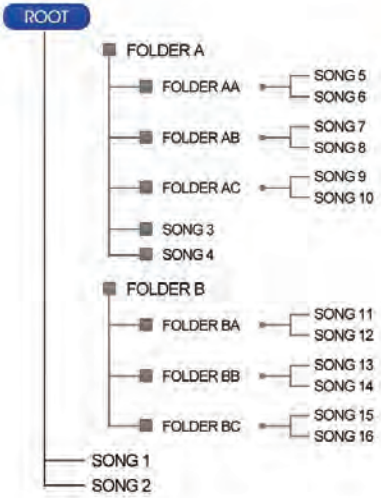
- Maximum directory layers : 8 layers.
- Maximum folder length : 64 bytes, file name length: 64 bytes.
- Supported characters for folder name/file name: 2350 characters for Alphanumeric character and Korean character sets, 4888 characters for Simplified Chinese character set.
- Maximum number of folders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

Precautions upon Burning MP3 Files

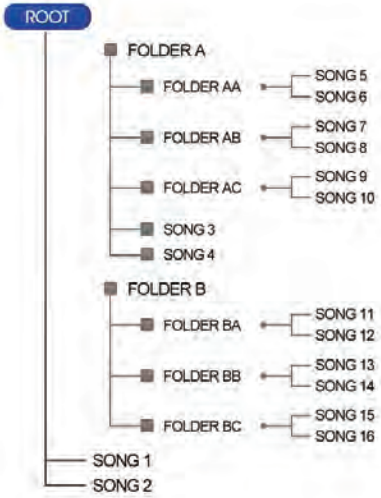
- The use of ISO 9660 LEVEL 2 JOLIET format is recommended.
- Up to 32 characters in Korean/Chinese are supported for file names and up to 20 characters in Korean/Chinese are supported for folder names.
- The use of CDs exceeding 700MB may result in faulty disc recognition or errors upon play.

MP3 File Structure

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



Folder structure as saved in CD-ROM

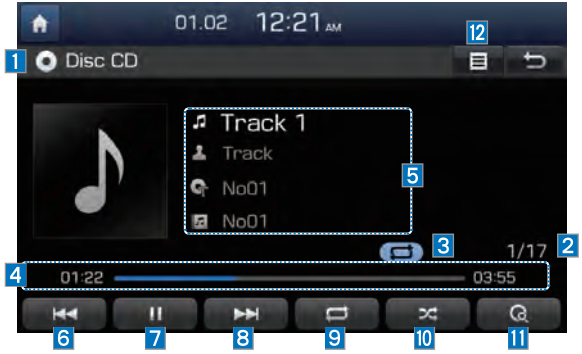


Folder structure as saved in the system

H_DH_G4.5[L]AV PART2.indd 2-10 2014-07-02 오후 5:08:0

CD Mode

Basic Mode Screen



Name	Description
1 Mode	Displays currently operating mode
2 Track Index	Shows the current track/total tracks
3 Repeat/ Shuffle/ Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Play Time	Displays the current play time
5 Play Info	Displays track/artist/title/album information
6 Previous Track	• When the play time is under 3 seconds the previous track • When the play time is over 3 seconds current song from the beginning
7 Play/Pause	Plays/pauses the current track
8 Next Track	Moves to the next track
9 Repeat	Repeats the current track Press the button to switch between repeating the current track → and turning repeat off
10 Shuffle	Plays disc tracks in random order Press the button to switch between shuffle all → and turning shuffle off
11 Scan	Scans the beginning parts of disc tracks (approx. 10 seconds per track) Press the button to switch between scan all → and turning scan off
12 List	Moves to the track list screen

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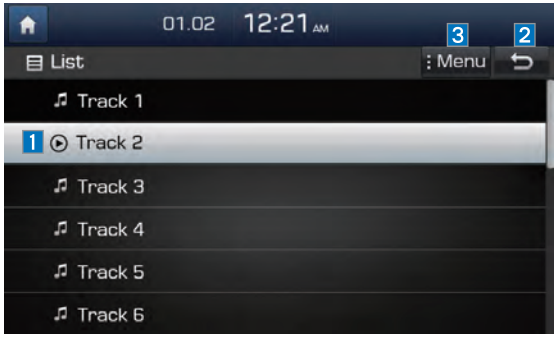
Name	Description
13 SEEK/TRACK	• If press button short (less than 0.8 seconds) moves to previous or next track • If press button long (over than 0.8 seconds) it rewinds or fast-forward the track *i* When pressed for 5 seconds, it will rewind or fast-forward the track at 4x speed. After that, it will rewind or fast-forward at 20x speed. Once released, the track will begin playing at normal speed.
14 TUNE	Turn the TUNE knob and search a desired track. When the track name is displayed, press the TUNE knob to play the track. *i* If the TUNE knob is not pressed within 5 seconds of searching tracks, the track info for the current track is restored.

H_DH_G4.5[L]AV PART2.indd 2-12 2014-07-02 오후 5:08:5

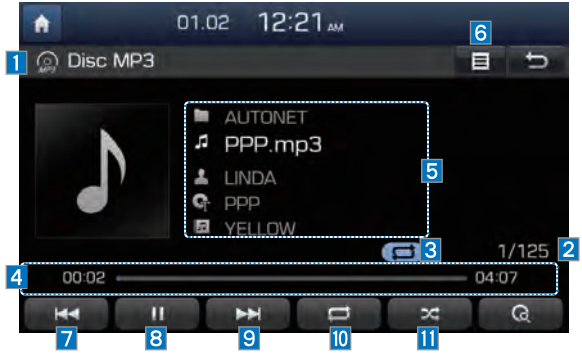


Name	Description
1 Current Track	Displays currently playing track name
2 Back Button	Converts to basic mode screen
3 Menu	When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file)
4 SEEK/ TRACK	• If press button short (less than 0.8 seconds): Plays previous/next track • If press button long (over than 0.8 seconds): Moves to play screen, and then it will rewind or fast-forward the track. It will play the track normally if it is released.
5 TUNE	Turn the TUNE knob to move the focus to the next/previous track. If the desired track is selected, press the TUNE knob to play the track.

H_DH_G4.5[L]AV PART2.indd 2-13 2014-07-02 오후 5:09:0

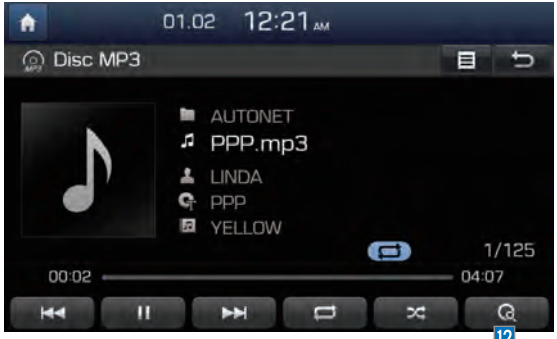
Using MP3 Mode

Basic Mode Screen



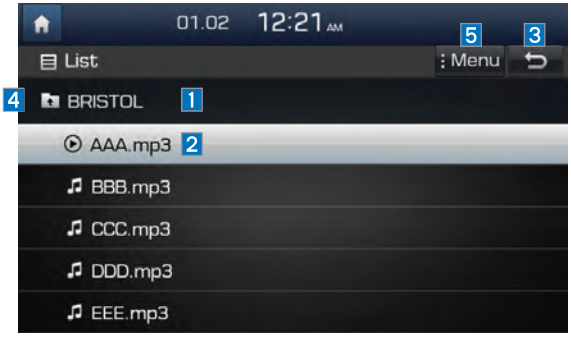
Name	Description
1 Mode	Displays currently operating mode
2 File Index	Shows the current MP3 file/total number of MP3 files
3 Repeat/ Shuffle/ Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Play Time	Displays the current play time
5 Song Info	Displays folder/file/artist/title/album info for current song
6 List	Moves to the list screen
7 Previous File	• If play time is less than 3 secs, moves to previous file • If play time is over than 3 secs, play the current file from the beginning
8 Play/Pause	Plays/pauses the current track
9 Next File	Moves to the next song
10 Repeat	Repeats the current song or all songs in the folder Press the button to switch between repeating 1 song → repeating folder → and turning repeat off Repeat 1 song: Repeats the current song Repeat Folder: Repeats songs in the folder
11 Shuffle	Plays files in the folder or in the disc in random order Press the button to switch between shuffle folder → shuffle all → and turning shuffle off Shuffle folder : Plays songs in the folder in random order Shuffle All : Plays songs in the disc in random order.

H_DH_G4.5[L]AV PART2.indd 2-14 2014-07-02 오후 5:09:3



Name	Description
12 Scan	Scans the beginning parts of MP3 files (approx. 10 seconds per file) Press the button to switch between scan folder → scan all → and turning scan off i Scan Folder : Scans tracks in the current folder Scan All : Scans all tracks in the disc
13 SEEK/TRACK	• If press short (less than 0.8 seconds): Plays previous/next track • If press long (over than 0.8 seconds): Moves to play screen, and then it will rewind or fast-forward the track.
14 TUNE	Turn the TUNE knob to search a desired track. If the desired track is displayed, press the TUNE knob to play the track. i If the TUNE knob is not pressed within 5 seconds of searching tracks, the track info for the current track is restored.

H_DH_G4.5[L]AV PART2.indd 2-15 2014-07-02 오후 5:10:2



Name	Description
1 Folder Name	Displays folder name for current file
2 Current Song	Displays currently playing file name
3 Back Button	Converts to basic mode screen
4 Upper Folder	Moves to Root Folder
5 Menu	When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file)
6 SEEK/TRACK	• If press short (less than 0.8 seconds): Plays previous/next track • If press long (over than 0.8 seconds): Moves to play screen, and then it will rewind or fast-forward the track.
7 TUNE	Turn the TUNE knob to move the focus to the previous/next track. If the desired track is displayed, press the TUNE knob to play the track.

H_DH_G4.5[L]AV PART2.indd 2-16 2014-07-02 오후 5:10:4

About USB

Before Playing a USB MP3

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

- Files that are not standard format music/image files will not be played.
- For MP3/WMA/OGG files, only music files with compression rates between 8Kbps ~ 320Kbps can be played.
- Heed caution to static electricity when connecting/disconnecting external USB devices.
- Encoded MP3 Players will not be recognized when connected as an external device.
- When connecting an external USB device, the device may not properly recognize the USB is in some states.
- Only products formatted with byte/sectors under 64Kbyte will be recognized.
- This device recognizes USB devices formatted in FAT 12/16/32 file formats. This device does not recognize files in NTFS file format.
- Some USB devices may not be supported due to compatibility issues.
- Take caution so that the USB connector does not come in contact with body parts or 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.
- The use of USB devices for purposes other than playing music and image files is prohibited.
- Do not use the USB I/F to charge batteries or USB accessories that generate heat. Such acts may lead to worsened performance or damage to the device.
- The device may not recognize the USB device if separately purchased USB hubs and extension cables are being used. Connect the USB directly with the multimedia terminal of the vehicle.
- When using mass storage USB devices with separate logical drives, only files saved to the root drive can be played.
- When application programs are installed to specific USBs, files may not properly play.

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- The device may not operate normally if MP3 Players, cellular phones, digital cameras, or other electronic devices (USB devices not recognized as portable disk drives) are connected with the device.
- Charging through the USB may not work for some mobile devices.
- The device may not support normal operation when using a USB memory type besides Metal Cover Type USB Memory.
- The device may not support normal operation when using formats such as HDD Type, CF, or SD Memory.
- Upon playing iPods, please use a dedicated iPod car cable.
- Normal operations cannot be guaranteed when other cables are being used.
- The device will not support files locked by DRM. (Digital Rights Management)
- USB memory sticks used by connecting an Adaptor (SD Type or CF Type) may not be properly recognized.
- Only use Plug type connector products, as shown in the figure below.

Plug Type Connector

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

Information

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

H_DH_G4.5[L]AV PART2.indd 2-18 2014-07-02 오후 5:11:1

Supported Video Image Specifications

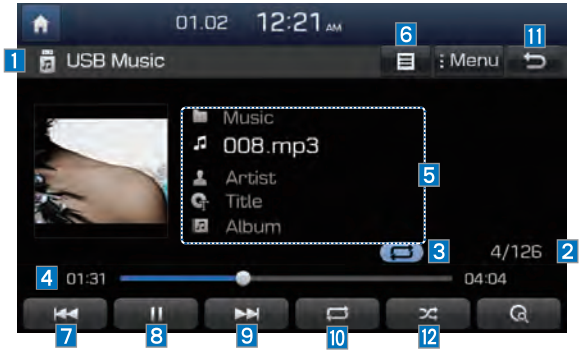
Name	Description
File format	AVI (DIVX), MPEG, 3GP, WMV
Image format	JPG, GIF, BMP, PNG (animated GIF, etc. are not supported)
Extension	.avi, .divx, .mpg, .mpeg, .mp4, .3gp, .3gpp, .3gpp2, .wmv, .asf
Supported image resolution	5M pixels for JPG, BMP, PNG (1M pixels maximum for GIF)
Supported image file size	5M pixels for JPG, BMP, PNG (1M pixels maximum for GIF)
Video codec	DivX3/4/5/6. XviD, MPEG1/4 (excluding MPEG2), H264, WMV9
Video resolution	DivX: 720 x 576, MPEG: 720 x 576
Audio codec	MP3, OGG, WMA…
Subtitles	SMI
Files not supported for playback	Files which do not conform to the supported specifications Modified files (files with changed formats) Converted files (e.g., an AVI file encoded in the WMV video codec) DivX files which are encoded in MJPEG, H.263 Files without indexes Other requirements are based on DivX's certification standards (screen display specifications and playback specifications)

Information

- The playback timestamp may appear incorrectly for files with variable bitrates.
- If you get errors during playback or your file's format is not supported for video playback, please convert the format of the file using up-to-date software such as Gom Encoder, Umile Encoder, and Daum Pot Encoder.

H_DH_G4.5[L]AV PART2.indd 2-19 2014-07-02 오후 5:11:2

USB Music



Features	Description
1 Mode	Displays currently operating mode
2 File Index	Shows the current file/total files within the USB
3 Repeat/ Shuffle/Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Play Time	Displays the current play time/total play time
5 Song Info	Displays the information of the current track • When a track in the file tab on the list screen is selected : Displays folder, file, title, artist, album info • When a track in the other tabs on the list screen is selected : Displays artist, title, album info
6 List	Moves to the list screen

Features	Description
7 Previous File	If press button short (less than 0.8 seconds) : Moves to the previous file or play the current file from the beginning (Depends on the play time) • If play time is less than 3 seconds, moves to previous file • If play time is over than 3 seconds, play the current file from the beginning If press button long (over than 0.8 seconds) it rewinds the track
8 Play/Pause	Plays/pauses the current file
9 Next File	• If press button short (less than 0.8 seconds) : Moves to the next file • If press button long (over than 0.8 seconds) : It fast-forwards the track
10 Repeat	Repeats the current file • If select the song in the file tab on the list screen : Press the button to switch between repeating one song, repeating folder, and turning repeat off • If select the song in the other tabs (Playlist, Artist, Song, Album, Genre) on the list screen : Press the button to switch between repeating one song and turning repeat off
11 Back Button	Converts to basic mode screen
12 Shuffle	Plays files in random order • If select the song in the file tab on the list screen : Press the button to switch between Shuffle Folder, Shuffle All, and turning shuffle off • If select the song in the other tabs (Playlist, Artist, Song, Album, Genre) on the list screen : Press the button to switch between Shuffle Category and turning shuffle off

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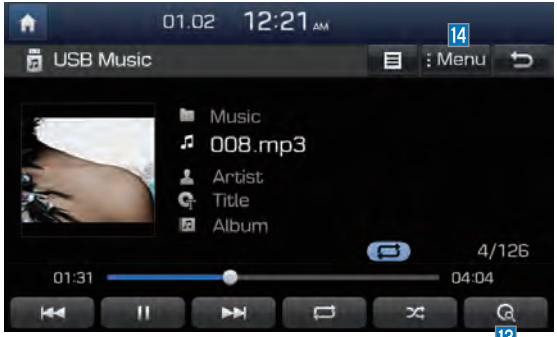
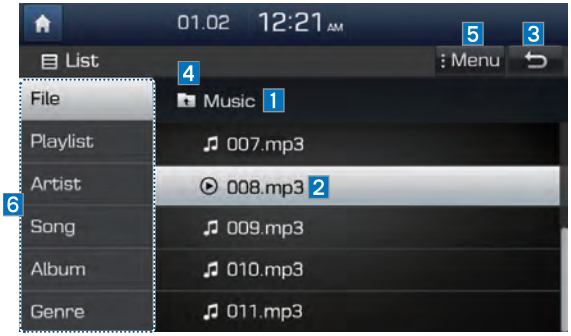


Features	Description
13 Scan	Scans the beginning parts of USB files (approx. 10seconds per file) • If select the song in the file tab on the list screen : Press the button to switch between Scan Folder, Scan All, and turning scan off • If select the song in the other tabs (Playlist, Artist, Song, Album, Genre) on the list screen : Press the button to switch between Scan category and turning scan off
14 Menu	• Add to Playlist: Add the current track to the Playlist Playlist is placed on the left tab in the list • Save to My Music: You can save the current track to My Music. You can play saved track from My Music without USB. Access to My Music in the Media mode.
15 SEEK/TRACK	If press button short (less than 0.8 seconds) moves to previous/next file or play the current track from the beginning • If play time is less than 3 seconds, moves to previous/next file • If play time is over than 3 seconds, play the current file from the beginning If press button long (over than 0.8 seconds) it will rewind/fast-forward the track
16 TUNE	Turn the TUNE knob to search a desired track. If the desired track is displayed, press the TUNE knob to play the track.

H_DH_G4.5[L]AV PART2.indd 2-21 2014-07-02 오후 5:11:3

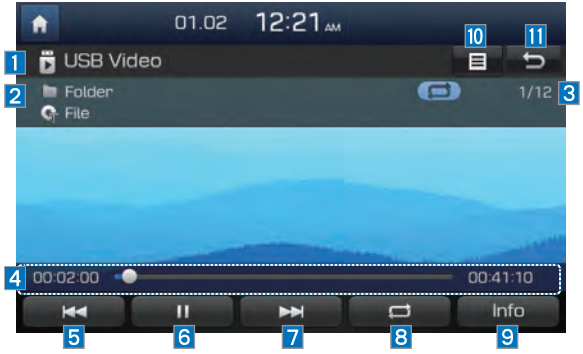


Features	Description
1 Folder/ Category Name	Displays folder/category name in the list
2 Current Song	Displays currently playing file name
3 Back Button	Converts to basic mode screen
4 Upper Folder/ Category	Moves to Upper Folder/Category

Features	Description
5 Menu	• Add to Playlist : Adds the current track to the Playlist: Playlist is placed on the left tab in the list (Maximum 100 files) Select a desired track and press “Add to Playlist” to add the track in the playlist. • Delete from Playlist : Select a track you want to delete from the playlist and press “Delete from Playlist” to delete the track in the playlist • Now Playing : When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file)
6 Search Menu	Search tracks by the list type. Search songs according to Playlist, Artist, Song, Album, and Genre. *i* If access the search menu while playing a track, it moves to the previous search mode.
7 SEEK/ TRACK	If press short (less than 0.8 seconds): Plays previous/next track • If play time is less than 3 seconds, moves to previous/next file • If play time is over than 3 seconds, play the current file from the beginning If press long (over than 0.8 seconds): Moves to play screen, and then it will rewind or fast-forward the track. It will play the track normally if button released.
8 TUNE	Turn the TUNE knob to move the focus to the previous/next list. If the desired track is displayed, press TUNE knob to play the track.

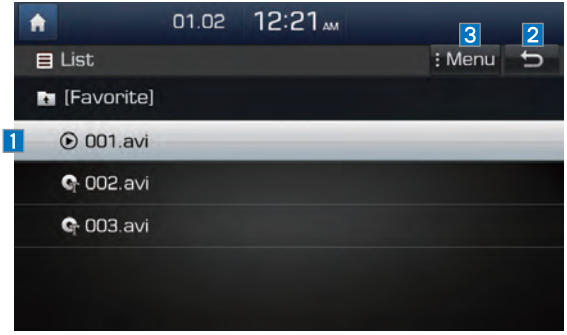
H_DH_G4.5[L]AV PART2.indd 2-22 2014-07-02 오후 5:11:4

USB Video



Features	Description
1 Mode Display	Displays the current playback mode.
2 Folder/File Name	Displays the folder in which USB Video file is located as well as the name of the video file that is currently playing.
3 File Index	Displays the name and total number of current USB Video files.
4 Play Time	Displays the current and total play time of the USB Video.
5 Previous File	• Short press (less than 0.8 seconds): Plays from the start or plays the previous file according to the play time. - Play time is less than 3 seconds: Returns to the previous video file. - Play time is more than 3 seconds: Plays from the beginning of the current file. • Long press (more than 0.8 seconds): Fast forwards the current file.
6 Pause/Play	Pause/play video file
7 Next File	Short press (less than 0.8 seconds): Goes to the next file Long press (more than 0.8 seconds): Fast forwards the current file.
8 Repeat	Repeats the current video file
9 Info	Displays the file name, resolution, and total time.
10 List	Goes to the USB Video List
11 Back Button	Return to Home/Previous page

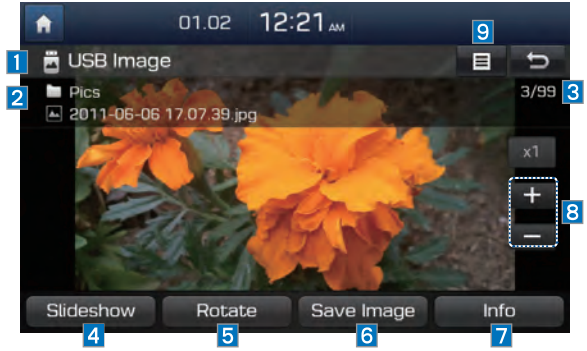
H_DH_G4.5[L]AV PART2.indd 2-23 2014-07-02 오후 5:11:5



Features	Description
1 Current Video File	The current file being played is highlighted.
2 Back Button	Changes to play mode screen
3 Menu	Returns to the current file. When on another list, select this to return to the list that contains the currently playing video. (This function is disabled when already on the list containing the currently playing video.)
4 SEEK/TRACK	• Short press (less than 0.8 seconds): Plays the previous/next file or plays from previous/start according to the play time when SEEK is selected. - Play time is less than 3 seconds: Returns to the previous video file. - Play time is more than 3 seconds: Plays from the beginning of the current file. • Long press (more than 0.8 seconds): Goes to the play page and fast forwards the file currently being played.
5 TUNE	Turn the TUNE knob to move the focus to the previous/next list, and press it after selecting a file to play the selected video file. *i* Tune search will end when no keys are being pressed for 5 seconds.

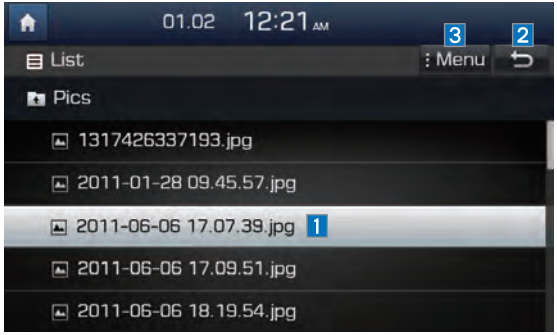
H_DH_G4.5[L]AV PART2.indd 2-24 2014-07-02 오후 5:12:0

USB Image



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

H_DH_G4.5[L]AV PART2.indd 2-25 2014-07-02 오후 5:12:1



Features	Description
1 Current File	Displays currently playing file name
2 Back Button	Converts to basic mode screen
3 Menu	Now Playing : When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file)
4 SEEK/ TRACK	Controls background mode • Radio mode: Changes Frequency and Channel Media mode: Changes Track (excluding AUX)
5 TUNE	Controls background mode • Radio mode : Changes Frequency and Channel Media mode : Changes track (excluding AUX). If a desired track is displayed, press the knob to move to the track.

H_DH_G4.5[L]AV PART2.indd 2-26 2014-07-02 오후 5:12:2

About iPod

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 with the Multimedia 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 Multimedia 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)
- If repeatedly connect and disconnect iPod/iPhone to the Multimedia System with USB cable in short time, it may cause malfunction.
- The time for recognition of iPod/iPhone may vary depending on device type, firmware version and iOS version.
- 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 are connected, this problem occurs as the sound source is changed from the Dock Connector (USB connector cable) to Bluetooth.
- To prevent this symptom, Bluetooth Audio function in the Multimedia System is limited if iPod/iPhone is connected to the system through both cable and Bluetooth. To listen to the iPod sound, use either iPod menu with USB connection or Bluetooth Audio with Bluetooth connection.
- To listen to the iPod sound, reconnect the USB cable or change the audio output settings in iPod/iPhone to Dock.
- 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 product.) will charge the iPod through the head unit.

※ The use of genuine iPod cables supplied by Apple is recommended. (The use of other products may result in noise or abnormal operation.)

H_DH_G4.5[L]AV PART2.indd 2-27 2014-07-02 오후 5:12:2

- When connecting with the iPod cable, make sure to fully insert the jack to prevent communication interference. If the iPod is connected to the vehicle while it is playing, a high pitch tone may sound for about 1~2 seconds immediately after connection. If possible, connect the iPod to the vehicle with the iPod stopped/paused.
- Within iPhones, streaming audio and iPod control may occasionally conflict. If problems persist, remove the iPhone and connect again.
- When connecting to iPod Nano /Classic, the HYUNDAI Motor logo appears on the Apple device. For the iPod Nano 6 generation, however, the logo image does not appear since it is not supported. Also, all iPhone and iPod Touch products do not support this function.
- In Apple's iOS 6.0 version or later, Podcast and Audiobook media files are designed to be played with the Podcasts and iBooks applications specifically designed for Apple products. If the Apple device does not provide the Podcast and Audiobook lists, the playlist may not be displayed and played in the AVN iPod mode.
- If the Apple Podcasts and iBooks apps are not installed on the Apple device, but the Apple device provides the Podcast and Audiobook lists, you can play files in other categories in AVN iPod mode.

H_DH_G4.5[L]AV PART2.indd 2-28 2014-07-02 오후 5:12:2

Caution

- While using a connected iPhone/iPod Touch device, it may not operate normally if the user changed some functions in the device.
- When calling with an iPhone connection, song may stop playing due to an Apple device feature. If sound does not resume after the call is terminated, check the device status.
- If lots of songs have the same information, skipping may occur when previous/next song is executed due to an Apple device feature. Also problems may occur depending on device type or iOS version.
- If lots of songs have the same information, it may occur difference of playing songs between the Multimedia System and Apple device. Reset the device or delete the same songs in the Apple device using iTunes.
- If you control pause, repeat, shuffle, or seek songs when the play time is when the play time is less than 3s before finished playing, it may occur difference of playing song between the Multimedia System and Apple device. Access to iPod music from another mode or pause a song and then play a song again in Apple device.
- We recommend that your Apple device uses the latest firmware since some problems may occur due to an outdated firmware or a product defect.

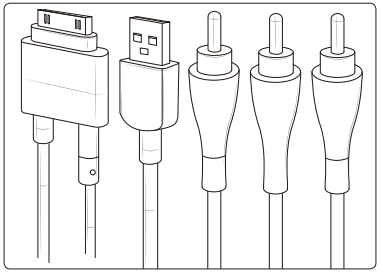
Type	1G	2G	3G	4G	5G	6G	6.5G	7G
iPod Mini	Not Supported							
iPod shuffle	Not Supported							
iPod Nano	○	○	○	○	○	○	Not released	○
iPod Touch	○ (iOS 1.1 not supported)	○	○	○	○	Not released		
iPad	○ (Unable to charge, Not verified, Normal working not guaranteed)							
iPad Mini	○ (Unable to charge, Not verified, Normal working not guaranteed)							
iPod Classic	Not Supported				○ (iPod with Video)	○ (iPod Cassic)	○ (iPod Cassic)	Not released

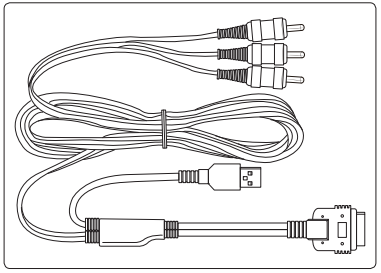
Type	3G	3GS	4G	4GS	5G
iPhone	Not verified, Normal working not guaranteed	○	○	○	○

H_DH_G4.5[L]AV PART2.indd 2-29 2014-07-02 오후 5:12:2

Caution

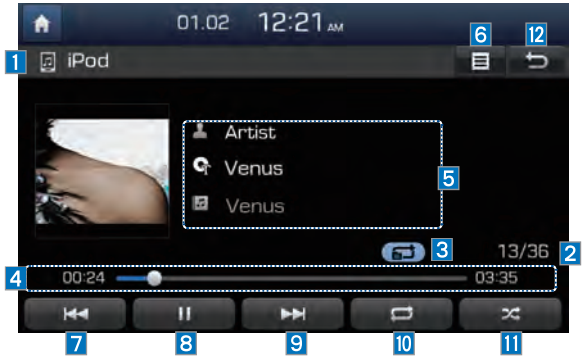
- If the iPhone/iPod Touch supports Bluetooth, it is unable to use Bluetooth Audio if the Apple device that is connected to the Multimedia System through both USB connection and Bluetooth. Disconnect the USB connection then use Bluetooth Audio
- If iPod/iPhone connected to the Multimedia System through both USB and AUX. iPod/iPhone keeps output sound via AUX, thus it may occur sound will not output in iPod mode.
- If AUX cable connected to iPod/iPhone but not connect to the Multimedia System, it may occur sound will not output in iPod mode due to iPod/iPhone's feature. Especially, if you use AUX cable like pictures, this problem may occur.
- Disconnect AUX cable from iPod/iPhone first, then connect to the Multimedia System via USB. Or change settings to "Dock" in iPod/iPhone.
- If connect to the Multimedia System while podcast or iTunes music downloading to iPod/iPhone, it may occur some problems when you select song in the list. Reconnect iPod/iPhone to the Multimedia System when downloading finished or the file deleted.
- If connect to the Multimedia System while sync, it may occur some problems. Try to use iPod/iPhone connection after sync complete. (To learn more, refer to your iPod manual)
- iPhone and iPod Touch devices are guaranteed to work normally on iOS 6.1.4 or below. However, they may not work normally on future iOS versions as their operations have not yet been tested.





H_DH_G4.5[L]AV PART2.indd 2-30 2014-07-02 오후 5:12:2

iPod



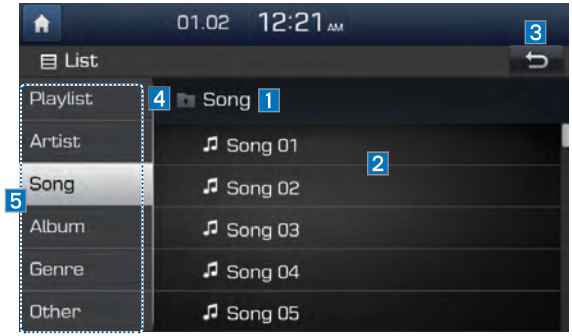
Features	Description
1 Mode	Displays currently operating mode
2 Song Index	Shows the current song/total songs
3 Repeat/Shuffle	From Repeat/Shuffle, displays the currently operating function
4 Play Time	Displays the current play time/total play time
5 Song Info	Displays the artist/song title/album info
6 List	Moves to the list screen

Features	Description
7 Previous File	If press button short (less than 0.8 seconds): Moves to the previous file or play the current file from the beginning (Depends on the play time) • If play time is less than 3 seconds, moves to previous file • If play time is over than 3 seconds, play the current file from the beginning If press button long (over than 0.8 seconds) it rewinds the track.
8 Play/Pause	Plays/pauses the current file
9 Next File	• If press button short(less than 0.8 seconds), Moves to the next file • If press button long(over than 0.8 seconds), it does fast-forward the track.
10 Repeat	Repeats the current file Press the button to switch between repeating 1 track, and turning repeat off
11 Shuffle	Plays files in random order When pressing button, it changes to shuffle category → deactivate shuffle then repeat • Shuffle Category: Shuffle song in the current category
12 Back Button	Move to home/previous mode screen

H_DH_G4.5[L]AV PART2.indd 2-31 2014-07-02 오후 5:12:2

Features	Description
13 SEEK/TRACK	If press button short (less than 0.8 seconds) moves to previous/next file or play the current song from the beginning • If play time is less than 3 seconds, moves to previous/next file • If play time is over than 3 seconds, plays the current file from the beginning If press button long (over than 0.8 seconds) it will rewind/fast-forward the track
14 TUNE	Turn the TUNE knob to search a desired track. If the desired track is displayed, press the TUNE knob to play the track. If the TUNE knob is not pressed within 5 seconds of searching tracks, the track info for the current track is restored.

H_DH_G4.5[L]AV PART2.indd 2-32 2014-07-02 오후 5:12:3



Features	Description
1 Category Name	Displays the category name
2 Category List	Displays the contents of selected category i If there are many items in the list, items are added in order and the scroll bar on the right is adjusted accordingly.
3 Back Button	Converts to basic mode screen
4 Upper Folder	Moves to Upper Folder
5 Search Menu	Search tracks by the list type. Search songs according to Playlist, Artist, Song, Album, and Genre. i If access the search menu while playing a track, it moves to the previous search mode.
6 SEEK/TRACK	If press button short (less than 0.8 seconds) moves to previous/next file or play the current song from the beginning • If play time is less than 3 seconds, moves to previous/next file • If play time is over than 3 seconds, plays the current file from the beginning If press button long (over than 0.8 seconds) it will rewind/fast-forward the track.
7 TUNE	Turn the TUNE knob to search a desired track. If the desired track is displayed, press the TUNE knob to play the track. If you do not anything with the knob for 5 seconds, the TUNE knob search will be terminated.

H_DH_G4.5[L]AV PART2.indd 2-33 2014-07-02 오후 5:12:4

AUX

Connect External Devices

Connect an external device cable to the AUX input to automatically switch to AUX mode. Unplug the cable to automatically switch back to the previous mode.

AUX mode is available only when an external audio or video player (camcorder, vehicle video recorder, etc.) is connected.

The AUX input volume can be adjusted separately from other AV modes.

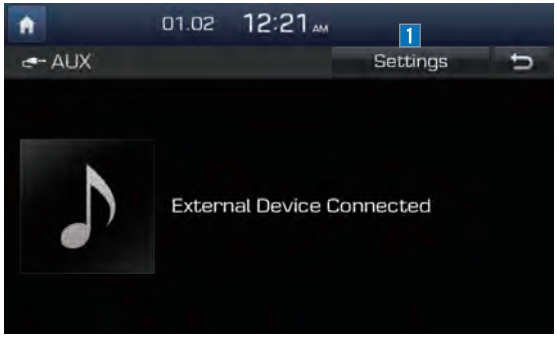
External audio and video players (camcorder, vehicle video recorder, etc.) can be played by connecting them with a compatible cable. The AUX jack is on the gearbox between the driver seat and front passenger seat.

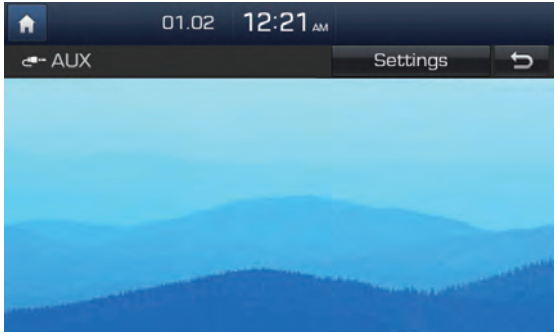
NOTICE

- If only cable connected to the AUX without an external device, the mode changed to AUX, but noise may occur. When an external device is not being used, 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.

H_DH_G4.5[L]AV PART2.indd 2-34 2014-07-02 오후 5:12:4

AUX Mode





Features	Description
1 Settings	Select NTSC and PAL modes AUX video source supports both NTSC and PAL modes. The setting value must be the same as that of the video source for the video to be played correctly.

Information

- SEEK TRACK and TUNE knob operation is not available on the AUX screen.

H_DH_G4.5[L]AV PART2.indd 2-35 2014-07-02 오후 5:12:4

Bluetooth® Audio Mode

Bluetooth Audio

Features	Description
1 Mode	Displays currently operating mode
2 Phone Name	Displays name of connected phone
3 Artist Info	Name of current artist
4 Title	Name of current song
5 Previous File	• If play time is less than 3 seconds, moves to the previous file • If play time is over than 3 seconds, plays the current file from the beginning i This function may differ depending on the model of mobile phone
6 Play/Pause	Plays/Pauses Bluetooth Audio
7 Next File	Moves to the next file
8 Connections	Moves to the Bluetooth Settings screen. You can pair a new device or change/delete paired device(s)
9 SEEK/TRACK	Plays the previous/next file
10 TUNE	TUNE knob is not supported.

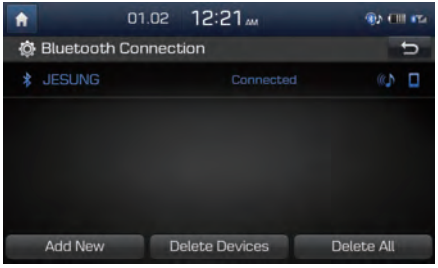
Information

- Artist info and Title may not supported by mobile phone

H_DH_G4.5[L]AV PART2.indd 2-36 2014-07-02 오후 5:12:5

Bluetooth Connections Settings

In Bluetooth Audio play screen, Select Connections



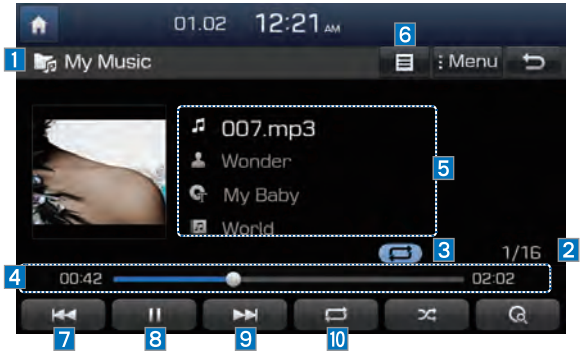
Refer to Setting → Phone → Bluetooth Connection Settings for pairing, connection and disconnection of a Bluetooth device

Information

- If the music in the mobile phone is not played after changing to audio streaming mode, press the play button. Thus check if the music is playing in the Bluetooth device after changing to audio streaming mode. Audio streaming may not supported for some mobile phones.

H_DH_G4.5[L]AV PART2.indd 2-37 2014-07-02 오후 5:12:5

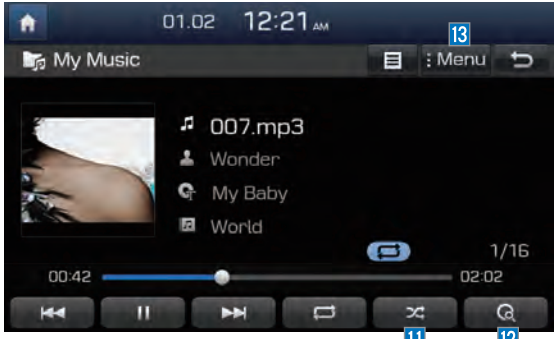
My Music



Features	Description
1 Mode	Displays currently operating mode
2 File Index	Shows the current file/total files
3 Repeat/ Shuffle/ Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Play Time	Displays the current play time/total play time
5 Song Info	Displays the information about the current track • When a track in the file tab on the list screen is selected : Displays file, artist, title, album info • When a track in the other tab on the list screen is selected : Displays artist, title, album info
6 List	Moves to the list screen

Features	Description
7 Previous File	If press button short (less than 0.8 seconds): Moves to the previous file or play the current file from the beginning (Depends on the play time) • If play time is less than 3 seconds, moves to previous file • If play time is over than 3 seconds, play the current file from the beginning If press button long (over than 0.8 seconds) it rewinds the track
8 Play/Pause	Plays/pauses the current file
9 Next File	• If press button short (less than 0.8 seconds): Moves to the next file • If press button long (over than 0.8 seconds) it will fast-forward the file
10 Repeat	Repeats the current file • If select the song in the file tab on the list screen : Press the button to switch between repeating one song and turning repeat off . • If select the song in the other tabs (Playlist, Artist, Song, Album, Genre) on the list screen : Press the button to switch between repeating one song and turning repeat off

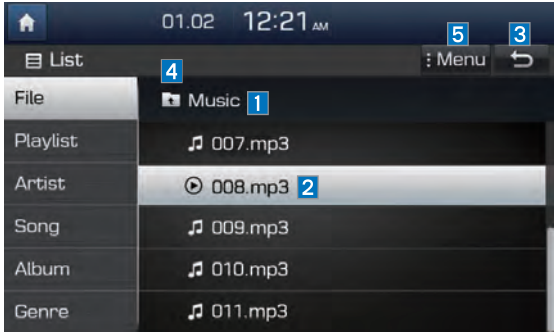
H_DH_G4.5[L]AV PART2.indd 2-38 2014-07-02 오후 5:12:5



Features	Description
11 Shuffle	Plays files in random order • If select the song in the file tab on the list screen : Press the button to switch between shuffle and turning shuffle off • If select the song in the other tabs (Playlist, Artist, Song, Album, Genre) on the list screen : Press the button to switch between shuffle and turning shuffle off

Features	Description
12 Scan	Scans the beginning parts of files (approx. 10seconds per file) • If select the song in the file tab on the list screen : Press the button to switch between scan and turning scan off • If select the song in the other tabs (Playlist, Artist, Song, Album, Genre) on the list screen : Press the button to switch between scan and turning scan off
13 Menu	• Add to Playlist: Adds the current song to the Playlist Playlist is placed on the left tab in the list • Delete Current File: Deletes the current track from My Music.
14 SEEK/ TRACK	If press button short (less than 0.8 seconds) moves to previous/next file or play the current song from the beginning • If play time is less than 3 seconds, moves to previous/next file • If play time is over than 3 seconds, plays the current file from the beginning If press button long (over than 0.8 seconds) it will rewind/fast-forward the track
15 TUNE	Turn the TUNE knob to search a desired track. If the desired track is displayed, press the TUNE knob to play the track. If the TUNE knob is not pressed within 5 seconds of searching tracks, the track info for the current track is restored.

H_DH_G4.5[L]AV PART2.indd 2-39 2014-07-02 오후 5:13:0



Features	Description
1 Folder/ Category Name	Displays folder/category name in the list
2 Category List	Displays currently playing file name
3 Back Button	Converts to basic mode screen
4 Upper Folder	Moves to Root Folder

Features	Description
5 Menu	• Add to Playlist : Adds the current track to the Playlist : Playlist is placed on the left tab in the list (Maximum 100 files) Select a track and press “Add to Playlist” to add the track in the playlist • Delete from Playlist : Select a track from the playlist and press “Delete from Playlist” to delete the track in the playlist • Delete Files: Deletes files from My Music *i* If delete file from My Music, the information related to song also deleted in the list. Now Playing : When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file
6 SEEK/ TRACK	If press button short (less than 0.8 seconds) moves to previous/next file or play the current song from the beginning • If play time is less than 3 seconds, moves to previous/next file • If play time is over than 3 seconds, plays the current file from the beginning If press button long (over than 0.8 seconds) it will rewind/fast-forward the track
7 TUNE	Turn the ● TUNE knob to move the focus to previous/next file. If the file you want to play is displayed, press ● TUNE knob to play the track. *i* If the ● TUNE knob is not pressed within 5 seconds of searching tracks, Tune search will be terminated.

H_DH_G4.5[L]AV PART2.indd 2-40 2014-07-02 오후 5:13:1

03

part.3 Using Bluetooth

Before Using the Bluetooth® Handsfree

Bluetooth Connection

Bluetooth Phone

Before Using the Bluetooth® Handsfree

What is *Bluetooth*® Wireless Technology?

- *Bluetooth*® Wireless Technology 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*® Wireless Technology 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.
- The Bluetooth® Handsfree feature 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 calls, receive calls, and manage the phone book. Before using *Bluetooth*® Wireless Technology, carefully read the contents of this user's manual.
- Excessive use or operations while driving may lead to negligent driving practices and be the cause of accidents. Do not operate the device excessively while driving.
- **Viewing the screen for prolonged periods of time is dangerous and may lead to accidents. When driving, view the screen only for short periods of time.**

CAUTIONS upon Connecting Bluetooth® Phone

- Before connecting the head unit with the mobile phone, check to see that the mobile phone supports Bluetooth® features
- Even if the phone supports *Bluetooth*® Wireless Technology, the phone will not be connected if the Bluetooth® power is turned off. Turn on the Bluetooth® power prior to connecting with the head unit.
- The Bluetooth® phone will be automatically connected when the ignition is turned on, making it unnecessary to have to connect the phone with the head unit every time.

H_DH_G4.5[L]AV PART3.indd 3-2 2014-07-02 오후 5:14:2

- If you do not want automatic connection with your Bluetooth® device, turn the Bluetooth® feature off of the Bluetooth® device.
- Park the vehicle when connecting the head unit with the mobile phone.
- Bluetooth® connection may become intermittently disconnected in some mobile phones. Follow these steps to try again.
  1. Turn the Bluetooth® function within the mobile phone OFF/ON and try again.
  2. Turn the mobile phone power OFF/ ON and try again.
  3. Completely remove the mobile phone battery, reboot, and then again.
  4. Reboot the Audio Multimedia System and try again.
  5. Delete all paired devices from both of Phone and Head Unit sides and then try again
- The Handsfree call volume and quality may differ depending on the mobile phone.
- Pairing Bluetooth® devices and use of other Bluetooth® features are not supported when the vehicle is in motion. For safety, please first park your vehicle.
- When downloading contacts, phenomenon not described within this user's manual may be related with the mobile device. When such occurs, inquire within the mobile phone manufacturer.

Bluetooth Connection

Pairing a New Device

Before you can use the Bluetooth feature, you must first pair/connect your mobile phone to your car.

Up to 5 Bluetooth devices can be paired. Only one Bluetooth device can be connected at a time.

Pairing a New Device by Selecting Phone/Call

Select PHONE key in the head unit or key in the steering wheel remote control. ▶ Select Yes. ▶ Pair your car after your mobile phone detects the Bluetooth device. ▶ Enter the passkey or accept the authorization popup. ▶ Connect Bluetooth.

Pairing a New Device Through the Phone Settings

Select SETUP key in the head unit. ▶ Select Phone. ▶ Select Bluetooth Connection. ▶ Select Add New Device. ▶ Pair your car after your mobile phone detects the Bluetooth device. ▶ Enter the passkey or accept the authorization popup. ▶ Connect Bluetooth.

The default passkey is 0000.

The device name above is an example. Check the actual information on the product.

Connecting Bluetooth Devices

Connects the Bluetooth devices that you add.

Connecting Devices by Selecting Phone/Call

Select PHONE key in the head unit or key in the steering wheel remote control. ▶ Select the name of the device to connect. ▶ Connect Bluetooth.

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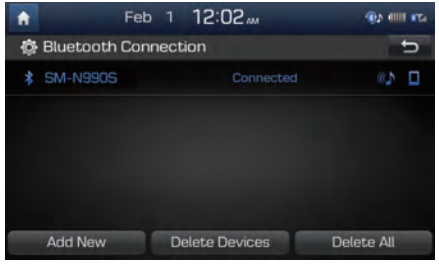
Connecting Devices Through the Phone Settings

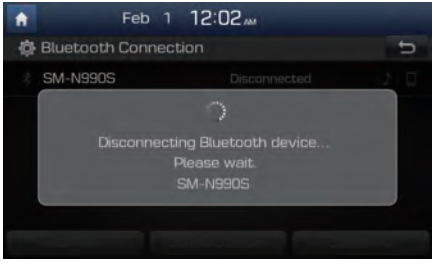
Select SETUP key in the head unit. ▶ Select Phone. ▶ Select Bluetooth Connection. ▶ Select the name of the device to connect. ▶ Connect Bluetooth.



Disconnecting Bluetooth Devices

Disconnects Bluetooth devices that are connected.

Select SETUP key in the head unit. ▶ Select Phone. ▶ Select Bluetooth Connection. ▶ Select the name of the device to disconnect.



Deleting Bluetooth Devices

Deletes the Bluetooth devices that you added. Note that deleting a Bluetooth device will delete all Call History and Contact Info downloaded along with it.

Select SETUP key in the head unit. ▶ Select Phone. ▶ Select Bluetooth Connection. ▶ Select Delete Devices. ▶ Select the device name to delete. ▶ Select Delete.

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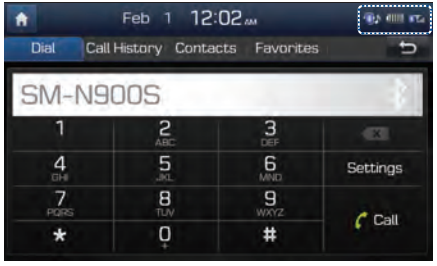
Bluetooth Phone

Phone Status Icons

Shows the current phone status in the right top of the display.



Icons	Description
	You can use Bluetooth phones when a Bluetooth hands-free connection is established.
	You can use Bluetooth audio features when a Bluetooth audio connection is established.
	You can use Bluetooth phones and audio features when both Bluetooth hands-free and audio connections are established.
	Call signal strength indicator
	Battery level of the Bluetooth devices connected
	Downloading Call History list
	Downloading Contacts
	In a Bluetooth phone call
	Microphone muted

Information

- The battery level icon and the call signal strength indicator may not be supported in some Bluetooth devices.
- The battery level may differ from the actual level remaining.

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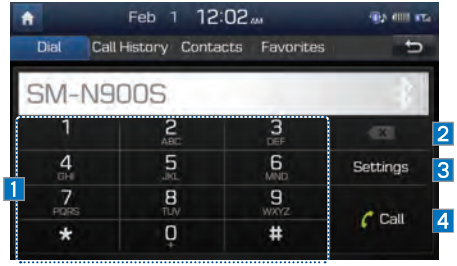
Dial

Dials a call after the Bluetooth devices are connected.

- Select PHONE key in the head unit or key in the steering wheel remote control.
- Select All Menus from the full screen display ▶ Phone.

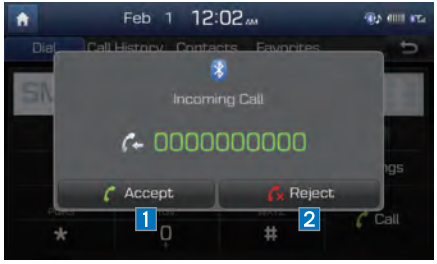


Name	Description
1 Keypad	Use the keypad to enter the phone number that you want to call. Press and hold the last number of a speed dial to dial a number that you added to the Speed Dial list in the phone
2 Delete	Delete the numbers that you entered.
3 Settings	Moves to Phone Settings Screen
4 Call	Makes a call after you dial a number and select CALL. If the number is listed in Dialed Calls, you can select the number and press CALL to automatically dial that number again.

Information

- Some types of mobile phones may not support the Speed Dial function.

Accept/Reject Call



If there is an incoming call after you made a Bluetooth connection, a popup message will appear.

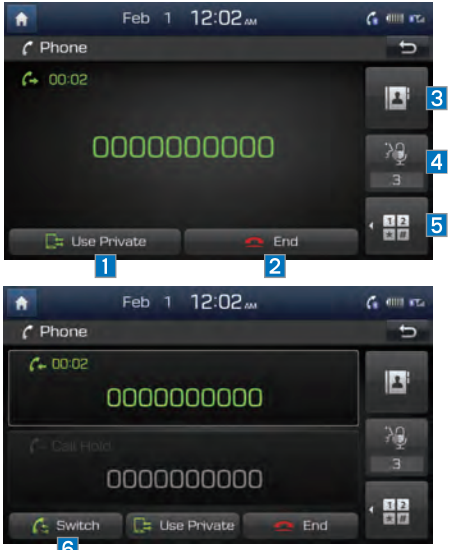
Name	Description
1 Accept	Answers the call.
2 Reject	Ignores the call.

Information

- In some mobile phones, the caller's number may not be displayed, and the Ignore feature may not be supported.

H_DH_G4.5[L]AV PART3.indd 3-7 2014-07-02 오후 5:14:2

Using the Menu During a Phone Call



When making a call, you can use the following menu items.

Name	Description
1 Use Private	Switches a voice call from the car hands-free to the mobile phone.
2 End	Ends a call.
3 Contacts	Displays the Contacts list.
4 Outgoing Volume	Displays the Mic Volume settings. You can adjust the in-call volume that the other party hears (level 1 - 5).
5 Keypad	Moves to a screen for entering ARS numbers.
6 Switch	Switches to a call on hold, if any. You can also switch calls by selecting the number in the Information Display. The Switch function switches the current call to a waiting call in order to answer a new incoming call.

Information

- If the caller's number is listed in Contacts, the caller's name will be displayed. Otherwise, only the number will be displayed. In some mobile phones, the phone number may not be displayed.
- In some Bluetooth devices, the Use Private feature may not be supported.
- In some Bluetooth devices, the Switch feature may not be supported.
- During a phone call on a Bluetooth Handsfree, you cannot access other modes, such as AV and Settings. You can switch to in-call volume control and navigation modes only.
- Depending on handset types, the in-call volume the other party hears may differ. If the other party hears your voice too low or too loud, adjust the mic volume.

H_DH_G4.5[L]AV PART3.indd 3-8 2014-07-02 오후 5:14:2

Call History

Select PHONE key in the head unit ▶ and then Call History .

Name	Description
1 Received Calls	Lists the calls that you have received.
2 Dialed Calls	Lists the calls that you made.
3 Missed Calls	Lists the calls you missed.

Name	Description
4 Call History	Displays all of your call history. Select from the list to dial the number.
5 Information	Displays the details of your call history information.
6 Download	Downloads the call history information from your mobile phone.
7 Delete Items	Deletes the items that you select from your Call History Information.
8 Delete All	Deletes all of the items from your Call History Information.
9 Call	Dials the selected number in your Call History Information.
10 Contacts Info	Goes to the Contact Information screen if the number has been stored.
11 Delete	Deletes your call history information.

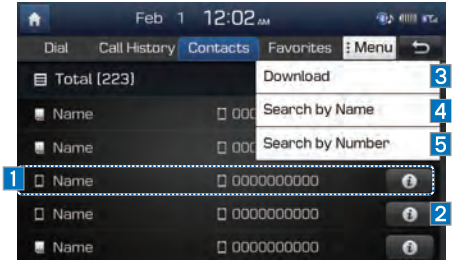
Information

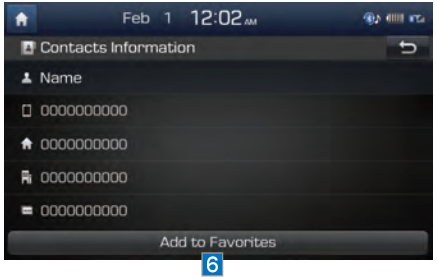
- In some mobile phones, call records may not be added to your Call History.
- Calls from restricted ID's are not added to your Call History Information.
- Up to 20 calls can be added in each Dialed Calls/Received Calls/Missed Calls list.
- The durations of each dialed/received call are not displayed in your car's Call History list.
- The Recent option is not supported for sorting all calls.
- While the call history download is in progress, the status bar displays an icon ( ).
- If the call history download is turned off with the Bluetooth device, the download will fail.
- Some devices require a device authentication for downloading your call history. If download fails, check if the Bluetooth settings or display status are normal.
- Some devices do not support downloading. Check if your Bluetooth device supports downloading.

H_DH_G4.5[L]AV PART3.indd 3-9 2014-07-02 오후 5:14:3

Contacts

Select PHONE key in the head unit ▶ and then Contacts





Name	Description
1 Contacts List	The list of Contacts. Select from the list to dial the number.
2 Information	Displays contact information.
3 Download	Downloads contacts from your mobile phone.
4 Search by Name	Searches Contacts for the name that you enter.
5 Search by Number	Searches Contacts for the number that you enter.
6 Add to Favorites	Adds a phone number to Favorites.

Information

- Up to 5000 phone numbers can be downloaded from a single, paired Bluetooth device.
- You cannot edit and delete downloaded phone numbers from your car.
- Contacts can be viewed only when the Bluetooth device is connected.
- Even if the Bluetooth device is disconnected, the downloaded data will remain. (Note that deleting a paired phone will also delete all downloaded Contacts and Call History data)
- Downloaded phone numbers may be lost depending on the condition of the head unit. Keep your important data in a safe place.
- Depending on differing mobile phone models and conditions, the time for transferring and downloading contacts may vary.
- If you download contacts from your phone, the existing data will be deleted.
- By default, contacts from both the SIM card and your mobile phone are downloaded at the same time.
- While downloading contacts, the status bar displays a ( ).
- If the contacts download function is turned off on the Bluetooth device, the download will not be available.

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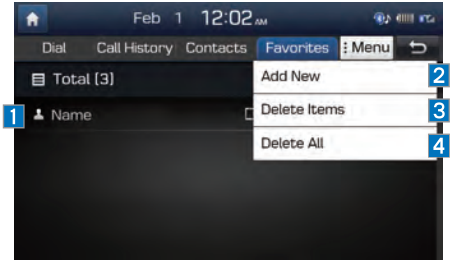
- Some devices require a device authentication for downloading your contacts. If download fails, check if the Bluetooth settings or display status are normal.
- Some devices do not support downloading. Check if your Bluetooth device supports downloading.

Favorites

Select PHONE key in the head unit ▶ and then Favorites .



Name	Description
1 Favorites	Lists the phone numbers saved as Favorites. Select from the list to dial the number.
2 Add New	Adds a new number to Favorites.
3 Delete Items	Deletes numbers that you select from Favorites.
4 Delete All	Deletes all of the numbers from Favorites.

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MEMO

H_DH_G4.5[L]AV PART3.indd 3-12 2014-07-02 오후 5:14:5

part.4 Other Features

Climate Mode
Camera

04

Climate Mode

Operating Climate Mode

Press the CLIMATE key for the climate system to see status information in the full screen display.

While multimedia is in use, the climate system information will be displayed over top when you control the temperature (TEMP) or turn on the air conditioner (A/C).

Basic Mode Screen

Name	Description
1 Outside Temperature	Displays the current temperature outside the vehicle
2 Set the tem perature of the driver's seat and passenger seats	Displays the configured temperature settings for the driver's seat and the passenger seats. Cooling and heating will continue until the temperature matches the configured temperature settings. *i* The internal temperature can be cotrolled in increments of 0.5°C within a range of 17.5°C to 31.5°C. *i* LOW is displayed when the temperature is set to anything below 17.5°C, and HIGH is dis played when it is set to anything above 31.5°C.
3 Air direction	Displays the configured air direction settings.
4 Air volume	Displays the configured air volume settings
5 Cooling/ heating control status (AUTO)	It is displayed when the AUTO key is selected, and cooling/heating operates automatically according to the configured temperature settings *i* AUTO will be off when you try do the fol low ing with AUTO on: - Control the air volume - Control the air direction - Turn on/off the air conditioner (A/C) - To turn on the moisture removal function for the windshield
6 Air conditioner control status	It is displayed when the A/C key is selected and the air conditioner starts cooling/heating.

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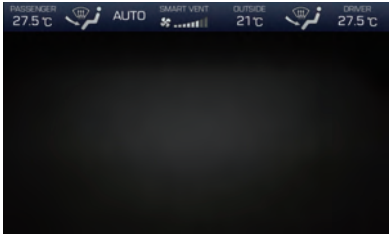
Name	Description
7 Simultaneous temperature settings for the driver's seat and the pas senger seats (SYNC)	It is displayed when the SYNC key is selected and the temperatures of the driver's seat and the passenger seats can be configured at the same time.
8 Alert to excessive amount of internal CO2	It is displayed when high level of internal CO2 level is detected and a feeling of driver fatigue could be felt. Ventilate the internal air.
9 Settings	Goes to the Climate Settings screen. Smart Ventilation, Auto Defog System, and Rear Climate Control can be turned on and off.

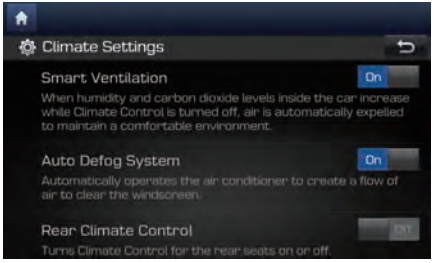
H_DH_G4.5[L]AV PART4.indd 4-3 2014-07-02 오후 5:16:2

Information

- For vehicles with the driver's seat on the right, the screen is shown as below.



Climate Setting Screen



H_DH_G4.5[L]AV PART4.indd 4-4 2014-07-02 오후 5:16:2

Camera

About Rear Detection Camera

- This device is connected to a rear detection camera to see behind the car for safe reversing.
- When the engine starts, shift the gear to R to activate the rear detection camera.
- Shift the gear to another position to deactivate the rear detection camera.

Information

- While the device boots up, shift the gear to R to activate the rear detection cameras.
- A separate chipset is used for the camera screen while booting up, so it may be different after booting up.
- When booted up, blinking may occur when you switch to a UI screen.

CAUTION

- A wide-angle lens is installed as the rear detection camera to get a wider view, so there may be some difference between the actual distance and the distance that appears on-screen. For safety, make sure to view the back, right, and left sides of the car for yourself.

PGS (Parking Guide System)

PGS is Parking Guide System displayed when the gear is at the R position with the power on. It is optional.

Name	Description
1 Switch to Top/Normal View	Changes the viewing angle of the rear detection camera.
2 Straight	Activates Straight mode
3 Parallel	Activates Parallel mode
4 Parking guidance setting	Displays the settings screen for Voice Parking, Display Guidelines, and Sync Guidelines with Steering.

H_DH_G4.5[L]AV PART4.indd 4-5 2014-07-02 오후 5:16:3

Rear View Angle Switch

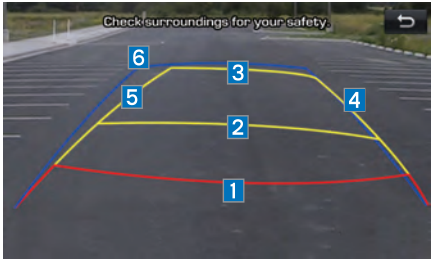
Select the button to switch the camera view angle to the top view (upper viewing angle) or normal view (rear viewing angle).

Select the top view (upper viewing angle) to see behind the car from a top angle.

Select normal view (rear viewing angle) to see behind the car from a normal viewing angle with perspective.

Straight Parking

Straight Parking is composed of the following:



Name	Description
1 Red Line	About 0.5 m from the rear bumper
2 Yellow Line 1	About 1 m from the rear bumper
3 Yellow Line 2	About 3 m from the rear bumper
4 Yellow Line 3	Trajectory of the wheel on the driver's side
5 Yellow Line 4	Trajectory of the wheel on the passenger side
6 Blue Line	Neutral steering trajectory

Straight Parking is composed of two steps:

- In step 1, the driver readies the car for Straight Parking and stops at an appropriate position; selects Straight menu; and steers into the parking space.
- In step 2, as with reverse parking, it displays the steering sync driving trajectory and straight-steering-position driving trajectory.

Information

- Press to switch to the rear detection camera mode.
- If the car drives over 10km/h, the end of parking assistance pop-up is displayed and it switches to the rear detection camera mode.

H_DH_G4.5[L]AV PART4.indd 4-6 2014-07-02 오후 5:16:3

Parallel Parking

The Parallel steering-sync driving trajectory displays as follows:

Name	Description
1 Red Line	About 0.5 m from the rear bumper
2 Yellow Line	About 3 m from the rear bumper
3 Green Line	About 6 m from the rear bumper

Parallel parking is composed of 3 steps:

- In step 1, the driver selects Parallel mode and readies the car in an appropriate position for parallel parking. Steer into parking space to display the corresponding guidelines. Parking Guideline blinks until the green steering-sync extension line matches the green parking space guideline. Steer within a certain range until the blinking stops, and then start reversing for step 2.
- In step 2, maintain the steering angle from step 1 and the car reverses into an appropriate position in the parking space. When the car starts to reverse while maintaining the steering angle, a green guideline is displayed. The driver reverses the car until the green guideline matches the inner parking line of the parking space. When the car stops, turn the wheel in the opposite direction for step 3.
- In step 3, turn the handle back to its original position and reverse the car slowly to finish parallel parking.

CAUTION

- There may be some difference between the actual distance and the distance that appears on-screen. For safety, make sure to view the back, right, and left sides of the car for yourself.

H_DH_G4.5[L]AV PART4.indd 4-7 2014-07-02 오후 5:16:4

Parking Settings

Select the Settings button to display the Parking Settings pop-up menu.

Name	Description
1 Voice Parking Guidance	Configure to use voice guidance for Straight and Parallel parking.
2 Display Guidelines	Configures the display parking guidelines.
3 Sync Guidelines with Steering	Configures the guideline-steering sync function.

AVM (Around View Monitor)

With the power on, the AVM is connected to the AVM camera to see the front, rear, and back of the car when driving at low speeds (10km/h or less). It is optional.

- The AVM-camera front detection mode will be activated when driving at low speeds (10km/h or less). When the car drives over 10km/h, the AVM camera screen is disabled.
- When the key is pressed and the gear is in a position other than P or R while the engine is running, the AVM camera automatically starts when the car accelerates.
- Shift gears to P or R and turn off the key to disable the front detection camera screen.
- The rear detection mode of the AVM camera is activated with the gear is positioned to R.

Front AVM

Select the key after starting the engine.

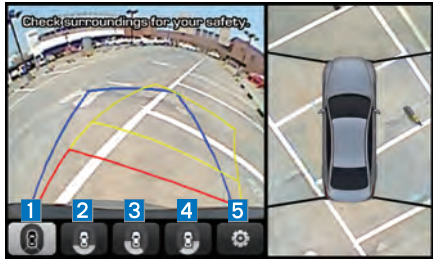
If the gear is in a position other than P or R, it automatically switches to the front detection AVM camera mode when the car accelerates.

Name	Description
1 AVM	Displays all of the images around the car.
2 Front	Displays the front image.
3 Front left	Displays the front-left image.
4 Front right	Displays the front-right image.
5 Settings	Displays the Parking Guidance Settings screen.

H_DH_G4.5[L]AV PART4.indd 4-8 2014-07-02 오후 5:16:4

Rear AVM

If the gear is positioned to R, the rear AVM camera is automatically switched to the operational mode.



Name	Description
1 AVM	Displays all of the images around the car.
2 Rear	Displays the rear image.
3 Rear left	Displays the rear-left image.
4 Rear right	Displays the rear-right image.
5 Settings	Displays the Parking Guidance Settings screen.

Parking Guidance Settings

Name	Description
1 Sync Guidelines with Steering	Used to adjust the Parking Guidelines according to the steering wheel position.
2 F/R Proximity Warnings	Provides a warning when an object is in close proximity to the front or rear of the vehicle.
3 Front View Mode	Displaying the front AVM, select the basic display mode of the camera screen. (AVM, Front left, Front right, and Front.)
4 Rear View Mode	Displaying the rear AVM, select the basic display mode of the camera screen. (AVM, Rear left, Rear right, and Rear.)

CAUTION

- A wide-angle lens is installed for the front detection camera to get a wider view, so there may be some difference between the actual distance and the distance that appears on-screen. For safety, make sure to check the front, right, and left sides for yourself.

H_DH_G4.5[L]AV PART4.indd 4-9 2014-07-02 오후 5:17:0

MEMO

H_DH_G4.5[L]AV PART4.indd 4-10 2014-07-02 오후 5:17:1

05

part.5 Setup

Setup
Sound Settings
Display Settings
Phone Settings
Clock Settings
DivX® VOD
AUX
Language
Keyboard Settings
Agreement
Screen Saver Settings
System Info
Rear Lock

Setup

Setup

Setup is the screen to control system settings of the AVN.

To enter the screen, select the SETUP key of the device or the Setup button in All Menus.

Features	Description
1 Sound	Provides the sound control options for Position, Bass, Middle, Treble, Volume, Ratio and Advanced settings.
2 Display	Provides the Adjust/ Illumination settings.
3 Phone	Provides the Bluetooth connection/ Auto download/Auto connection priority/Ringtone/ Bluetooth audio streaming/ Bluetooth System info settings.
4 Clock	Provides the Time and View settings.
5 DivX® VOD	Provides Registration information.
6 AUX	Provides NTSC/PAL settings.

Features	Description
7 Language	Provides the Change Language settings.
8 Keyboard	Provides settings to switch keyboard layouts.
9 Agreement	Provides the User Agreement Screen settings to make this screen disappear automatically.
10 Screen Saver	Provides the Clock/ Image/None settings.
11 System Info	Provides software and storage space information.
12 Rear Lock	Provides the Rear Lock Settings
13 Display Off	Provides the Display Off (touch activation) function.

H_DH_G4.5[L]AV PART5.indd 5-2 2014-07-02 오후 5:18:2

Sound Settings

Adjusts the sound effects for the whole system.

Features	Description
1 Position	Select the Up/Down/Left/Right button to control sound positioning. Press Center to concentrate the sound on the center of vehicle.
2 Tone	Drag the slide bar to control bass/middle/treble settings. Press Center to initialize the settings.
3 Advanced	You can select Speed dependent volume control to automatically control the volume by the vehicle's speed and Surround sound options. (Surround sound is optional.)
4 Beep	Select to activate a beep when pressing buttons.

Display Settings

Controls the display brightness and image rate for the whole system.

Features	Description
1 Adjust	Drag the slide bar to control the Brightness/ Hue/Contrast/Saturation settings. Press Center to initialize the settings.
2 Mode	You can select Daylight/ Night/Automatic options for the display brightness according to mode changes.
2 Display Ratio	Aspect ratio can be switched between Normal, Full, and Wide. This option is available only when in video mode.

H_DH_G4.5[L]AV PART5.indd 5-3 2014-07-02 오후 5:18:4

Phone Settings

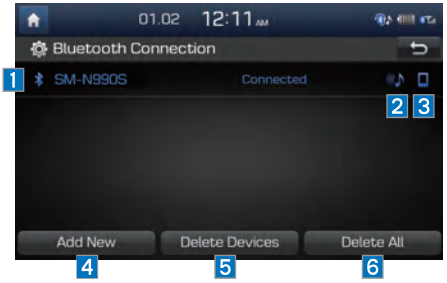
Changes Bluetooth phone settings.

Phone Settings

- Select the head unit SETUP key ▶ Select Phone.
- Home screen ▶ Select All menus ▶ Select Settings ▶ Select Phone.

Bluetooth Connection Settings

Select the SETUP key in the head unit ▶ Select Phone ▶ Select Bluetooth Connection



Features	Description
1 Paired Device List	Displays the paired Bluetooth device list. When selecting from the list, the device is connected or disconnected.
2 Bluetooth Audio Connection Status	An icon appears when you make a Bluetooth Audio connection.
3 Bluetooth Handsfree Connection Status	An icon appears when you make a Bluetooth hands-free connection.
4 Add New	Register a new Bluetooth device.
5 Delete Devices	Select and delete a paired device.
6 Delete All	Delete all paired devices.

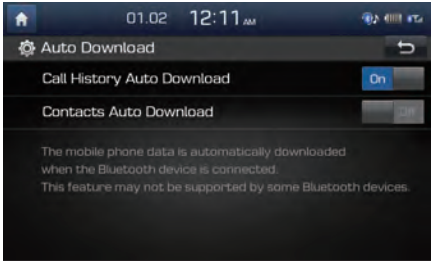
H_DH_G4.5[L]AV PART5.indd 5-4 2014-07-02 오후 5:18:5

Information

- Up to 5 Bluetooth devices can be paired.
- Only one Bluetooth device can be connected at a time.
- During a Bluetooth device connection, another device cannot be paired.
- When you delete a paired device, the Call History and Contacts stored in the head unit are also completely deleted.
- Bluetooth Hands-free and Bluetooth Audio functions are supported.
- Hands-free and audio-supported devices, such as a Bluetooth smartphone or audio, will function normally.
- When a Bluetooth device is connected, if the Bluetooth connection is unexpectedly disconnected, due to being out of communication range, the device powering off, or a Bluetooth communication error, the Bluetooth device automatically searches for and connects to nearby Bluetooth devices.
- If the system is not stable, due to a vehicle-Bluetooth device communication error, restore the Default Factory Settings.
- For Default Factory Settings, the bluetooth settings are reset to factory settings
- Select the SETUP key ▶ Select Phone ▶ Select Bluetooth System Info ▶ Select Default Factory Settings

Auto Download

Select the SETUP key in the head unit ▶ Select Phone ▶ Select Auto Download .



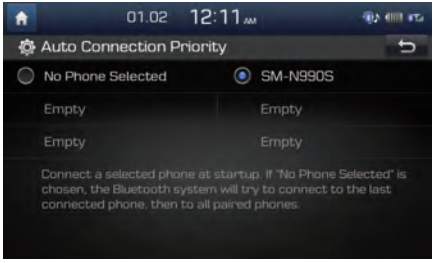
When connecting through Bluetooth, Contracts and Call History are automatically downloaded to the vehicle.

This function can be disabled if you don't want to use it.

Some mobile phones may not support this function.

Auto Connection Priority

Select the SETUP key in the head unit ▶ Select Phone ▶ Select Auto Connection Priority .



When the engine is running, the selected Bluetooth device is automatically connected. If you fail to connect the selected device, the previously-connected device is automatically connected, and if it also fails, then it tries to connect all paired devices sequentially.

Depending on auto connection priority, connection to a device may takes time.

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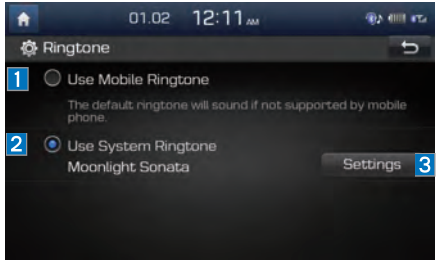
Ringtone

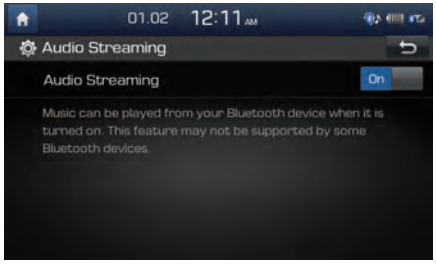
Select the SETUP key in the head unit ▶ Select Phone ▶ Select Ringtone .



Features	Description
1 Use Mobile Ringtone	The configured mobile ringtone comes out through the vehicle speakers when you receive a call. When a mobile doesn't support it, the basic ringtone of the vehicle will be used.
2 Use System Ringtone	The system ringtone will be used.
3 Settings	Changes the ringtone.
4 Ringtone Type	Selects a ringtone by name.
5 Preview	Previews the available ringtones.

Audio Streaming

Select the SETUP key in the head unit ▶ Select Phone ▶ Select Audio Streaming .



When audio streaming is set, you can play the music stored on a mobile device.
When this setting is off, Audio Streaming is not available.
Some mobile phones may not support this function.

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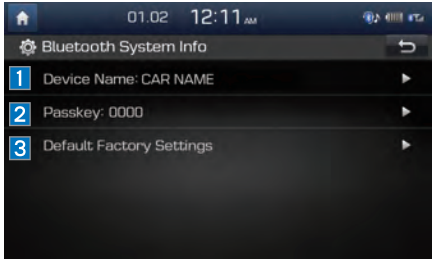
System Bluetooth Information

Select the SETUP key in the head unit ▶ Select Phone ▶ Select Bluetooth System Info .



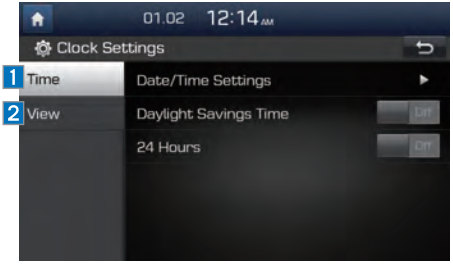
Features	Description
1 Device Name	You can change the Bluetooth device name of the vehicle.
2 Passkey	You can change the pass-key used for Bluetooth device authentication. the initial passkey is 0000.
3 Default Factory Settings	You can delete all paired devices and restore the Default Bluetooth Settings. For Default Factory Settings, all paired devices are deleted, and the system is reset to factory settings.

Information

- The device name above is an example. Check the actual information on the product.

Clock Settings

Provides the time and date settings.



Features	Description
1 Time Settings	Provides the Date/Time, Daylight Savings Time, 24-hour settings.
2 View Settings	Provides options to select a digital or analog clock widget for the Frame and Home screen, and to select the Display Date settings.

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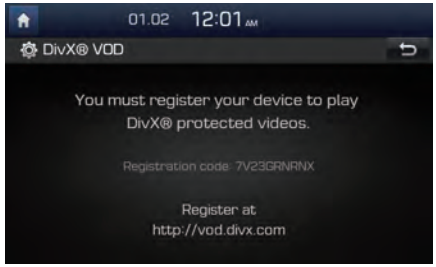
DivX® VOD

Refer to the registration code in the DivX® homepage when playing DivX® protected videos for the first time.



Register the product registration code shown in this page online to start using DivX® videos.

AUX

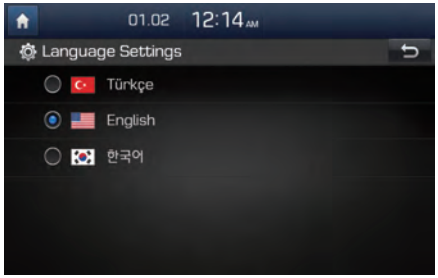
Sets the AUX connection method according to the screen output mode.

Refer to the screen output methods of the external device to choose the AUX connection method (NTSC/PAL). The screen may not display correctly if the external connection method is different.

Features	Description
1 NTSC	The standard television format in South Korea, USA, and Japan.
2 PAL	The standard television format in Europe and China.

Language

You can configure the displayed system language.



When the language is changed, the system language is automatically changed. Unique data including MP3 file name is not changed, and some languages don't support voice recognition.

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Keyboard Settings

You can configure the keyboard layout for each language.

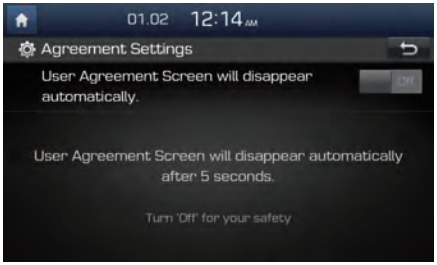
You can configure ABCD or QWERTY keyboards for the system.

Information

- Configured keyboard layouts are applied to all input modes.

Agreement

This screen provides the function that users can choose to make the User Agreement Screen, which appears when the engine is started, disappear automatically.



Set the option to ON to make the User Agreement Screen disappear automatically.

Screen Saver Settings

Configures a screen to be displayed when the system is powered off.

The options are Clock/Image/No Image. For Image, you can set the saved image from a USB file using the Browse button.

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System Info

At the System Info screen, software version information, updates, and storage status details are available.

Features	Description
1 SW Info	System version information and update details are available. Select the Update button to update the system. After update is completes, the system will reboot automatically.
2 Storage Space	Displays the memory space available for media files and applications.

System Update

At the System Info screen, insert the updated memory (USB) with the latest file downloaded, and then select the Update button to begin updating. The system will then reboot automatically.

Information

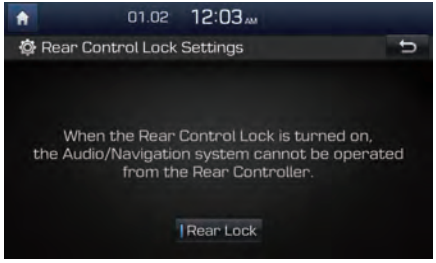
- This product needs supplemented software updates, additional new functions, which collectively may take some time to complete, depending on the amount of data.

CAUTION

- If the power is disconnected or the USB is removed during an update, the data might be damaged. Please wait until the update is complete while the engine is on.

Rear Lock

Provides Rear Control Lock settings.



Select 'Rear lock' to disable system control by rear-seat pass

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06

part.6 Appendix

Product Specification
Before Thinking the Product Has Malfunctioned
Troubleshooting
FAQ

Appendix

Product Specification

TFT-LCD

Screen Size	Multimedia Device - 8 inch(176.4 x 99.36mm)
Resolution	Multimedia Device - 384,000 pixels (Resolution: 800 x 480)
Operating Method	TFT(Thin Film Transistor) Active Matrix
Viewing Angle	Left/Right, Top/Bottom : ALL 89°
Internal Lighting	LED

Radio

Channels	Country1	FM	87.5 MHz ~ 108.0 MHz (Step : 100 kHz
		AM	531 kHz ~ 1602 kHz (Step : 9 kHz)
	Country2	FM	87.5 MHz ~ 107.9 MHz (Step : 200 kHz)
		AM	530 kHz~ 1710 kHz (Step : 10 kHz)
	Country3	FM	87.50 MHz ~ 108.00 MHz (Step : 50 kHz)
		AM	522 kHz ~ 1620 kHz (Step : 9 kHz)
Sensitivity	FM : Under 10dBu/AM : Under 40dBu		
Distortion Factor	Within 2%		

Common

Name	Car TFT LCD Display Multimedia Unit		
Power Supply	DC 14.4V	Operating Power	DC 9V ~ DC 16V
Current Consumption	2.5A	Sleep Current	0.5mA (Head Unit Only)
Operating Temperature	-20 ~ +70℃ (-4 ~ +158℉)	Storage Temperature	-40 ~ +85℃ (-40 ~ +185℉)
Dimensions	178 X 102 X167.5mm (Main BOX)		
Weight	2.2kg		

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Bluetooth® Wireless Technology

Frequency Range	2402 ~ 2480 MHz	Supported Bluetooth® Specification	3.0
Supported Profile	Handsfree(1.6), A2DP(1.2), AVRCP(1.4), PBAP(1.0)		
Output	0.125mW		
Number of Channels	79 channels		

CAUTION

- The producer and installer cannot provide services related to life safety as the concerned radio equipment is liable to radio interference.

Information

- Further information including the manufacturer's declaration of conformity is available on HYUNDAI web site as follows; http://service.hyundai-motor.com

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Before Thinking the Product Has Malfunctioned

1. Errors which occur during the operation or installation of the device may be mistaken as a malfunction of the actual device.
2. If you are having problems with the device, try the suggestions listed below.
3. If the problems persist, contact your HYUNDAI dealer.

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

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Troubleshooting

Problem	Possible Cause	Countermeasure
The power does not turn on	The fuse is disconnected	• Replace with a suitable fuse • If the fuse is disconnected again, please contact your point of purchase or service center
	Device is not properly connected	• Check to see that the device has been properly connected
The system does not play	The vehicle battery is low	• Charge the battery If the problem persists, contact your point of purchase or service center

Problem	Possible Cause	Countermeasure
The image color/tone quality is low	• The brightness, saturation, hue, and contrast levels are not set properly	• Properly adjust the brightness, saturation, hue, and contrast levels through Display Setup
Sound does not work	• The volume level is set to the lowest level • The connection is not proper • The device is currently fast-forwarding, rewinding, scanning, or playing in slow mode	• Adjust the volume level • Check to see that the device has been properly connected • The sound will not work when the device is fast-forwarding, rewinding, scanning, or playing in slow mode
The sound or image quality is low	• Vibration is occurring from where the conversion switch has been installed • Image color/tone quality is low	• The sound may be short-circuited and the image distorted if the device vibrates • The device will return to normal once vibrations stop

H_DH_G4.5[L]AV PART6.indd 6-5 2014-07-02 오후 5:20:2

Problem	Possible Cause	Countermeasure
The USB does not work	• USB memory is damaged	• Please use after formatting the USB into FAT 12/16/32 format
	• USB memory has been contaminated	• Remove any foreign substances on the contact surface of the USB memory and multimedia terminal
	• A separately purchased USB HUB is being used	• Directly connect the USB memory with the multimedia terminal on the vehicle
	• A USB extension cable is being used	• Directly connect the USB memory with the multimedia terminal on the vehicle
	• A USB which is not a Metal Cover Type USB Memory is being used	• Use standard USB Memory
	• An HDD type, CF, SD Memory is being used	• Use standard USB Memory
	• There are no music files which can be played	• Only MP3, WMA file formats are supported. Please use only the supported music file formats
The iPod is not recognized even though it has been connected	• There are no titles which can be played • The iPod firmware version has not been properly updated • The iPod device does not recognize downloads	• Use iTunes to download and save MP3 files into the iPod • Use iTunes to update the firmware version and reconnect the iPod with the device • Reset the iPod and reconnect with the device

Information

- While operating the device, if an abnormality occurs that cannot be corrected with the above described measures, press the RESET key to reset the system.
- Press and hold the RESET key (over 1 second). The device power will turn off and the system will reset.

H_DH_G4.5[L]AV PART6.indd 6-6 2014-07-02 오후 5:20:2

FAQ

About Pairing Mobile Phones

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

A Check to see that the mobile phone supports Bluetooth® function. Verify if Bluetooth on the cell phone is set to OFF. If so, set it to ON. If the cell phone still can't be registered, try again after turning Bluetooth off and on, or delete the device registration on the AVN and cell phone and then register the cell phone again.

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

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

Q What is a Passkey?

A A passkey is the password used to authenticate the connection between the head unit and mobile phone. The passkey only needs to be entered once when pairing the mobile phone for the first time.

The initial passkey is 0000. You can change it with Settings ▶ Phone ▶ Bluetooth system info ▶ Passkey menu options.

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About Making/Answering Phone Calls

Q How can I answer a call?

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

To reject the call, press the Reject button on the screen or press the key on the steering remote controller.

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

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

About *Bluetooth*® Wireless Technology/ Head Unit Use Environment

Q What is the range of my wireless connection?

A The wireless connection can be used within 10m.

Q How many mobile phones can be paired?

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

Q Why is call quality sometimes poor?

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

H_DH_G4.5[L]AV PART6.indd 6-8 2014-07-02 오후 5:20:2

Important Safety Information

Before using your Multimedia System, read and follow all instructions and safety information provided in this end user manual ("User's Guide"). Not following precautions found in this User's Guide can lead to an accident or other serious consequences.

Keep User's Guide in Vehicle

When kept in the vehicle, the User's Guide will be a ready reference for you and other users unfamiliar with the Multimedia System. Please make certain that before using the system for the first time, all persons have access to the User's Guide and read its instructions and safety information carefully.

Warning:

Operating certain parts of this system while driving can distract your attention away from the road, and possibly cause an accident or other serious consequences. Do not change system settings or enter data non-verbally (using your hands) while driving. Stop the vehicle in a safe and legal manner before attempting these operations. This is important since while setting up or changing some functions you might be required to distract your attention away from the road and remove your hands from the wheel.

General Operation

Prolonged Views of Screen

Do not access any function requiring a prolonged view of the screen while you are driving. Pull over in a safe and legal manner before attempting to access a function of the system requiring prolonged attention. Even occasional short scans to the screen may be hazardous if your attention has been diverted away from your driving task at a critical time.

Volume Setting

Do not raise the volume excessively. Keep the volume at a level where you can still hear outside traffic and emergency signals while driving. Driving while unable to hear these sounds could cause an accident.

Distraction Hazard

Some navigation features may require manual (non-verbal) setup. Attempting to perform such set-up or insert data while driving can seriously distract your attention and could cause an accident or other serious consequences. Stop the vehicle in a safe and legal manner before attempting these operations.

Let Your Judgment Prevail

Any navigation features are provided only as an aid. Make your driving decisions based on your observations of local conditions and existing traffic regulations. Any such feature is not a substitute for your personal judgment. Any route suggestions made by this system should never replace any local traffic regulations or your personal judgment or knowledge of safe driving practices.

Route Safety

Do not follow the route suggestions if doing so would result in an unsafe or illegal maneuver, if you would be placed in an unsafe situation, or if you would be directed into an area that you consider unsafe. The driver is ultimately responsible for the safe operation of the vehicle and therefore, must evaluate whether it is safe to follow the suggested directions.

Emergency Services

Do not rely on any navigation features included in the system to route you to emergency services. Ask local authorities or an emergency services operator for these locations. Not all emergency services such as police, fire stations, hospitals and clinics are contained in the map database for navigation features.

Use of Speech Recognition Functions

Speech recognition software is inherently a statistical process which is subject to errors. It is your responsibility to monitor any speech recognition functions included in the system and address any errors.

FCC Warning

This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

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

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum 20 cm between the radiator and your body.
This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.