

# Car Infotainment System

## USER's Manual



# Table of Contents

## 1 System overview

Component names and functions	1-1
▪ Control panel	1-1
▪ Steering wheel remote control	1-2
Turning the system on or off	1-3
Operating the touch screen	1-4
Home screen overview	1-5
Rearview overview	1-5

## 2 Useful functions

Using the phone projection	2-1
▪ Pairing to an iPhone	
via Apple CarPlay	2-2
▪ Pairing to an Android smartphone	
via Android Auto	2-4

## 3 Radio

Listening to the radio	3-1
Saving radio channels	3-1
▪ Saving a current channel	3-1
Changing the radio mode	3-2
Using the scan function	3-2

## 4 Media player

Using the media player	4-1
▪ Operating the media player	4-1
▪ Listening to music	4-3
[Searching for music files in the list]	4-4
▪ Watching videos	4-5
[Searching for video files in the list]	4-5

# Table of Contents

## 5 Bluetooth

<b>Connecting a Bluetooth device</b>	<b>5-1</b>
▪ Registering a device	5-2
▪ Connecting a registered device	5-2
▪ Disconnecting a connected device	5-3
▪ Deleting a registered device	5-3
<b>Using Bluetooth audio</b>	<b>5-4</b>
<b>Using a Bluetooth phone</b>	<b>5-5</b>
▪ Making a call	5-5
[Using the recent calls list]	5-6
[Using a contact list]	5-7
[Using the keypad]	5-7
▪ Answering a call	5-8
▪ Using the functions during a call	5-8
[Transferring a call]	5-9
▪ Setting favourites	5-9

## 6 Settings

<b>Setting the sound</b>	<b>6-1</b>
▪ Setting the system sound	6-1
<b>Setting the device connections</b>	<b>6-2</b>
<b>Setting the display</b>	<b>6-3</b>
<b>Settings the button</b>	<b>6-4</b>
<b>Settings the general</b>	<b>6-5</b>
<b>Settings the vehicle</b>	<b>6-6</b>

## 7 Appendix

<b>Safety warnings</b>	<b>7-1</b>
<b>Safety cautions</b>	<b>7-2</b>
<b>Troubleshooting</b>	<b>7-3</b>
▪ Sound and display	7-3
▪ USB playback	7-4
▪ Bluetooth connection	7-4
▪ Phone projection	7-5
▪ System operation	7-5
<b>Product specifications</b>	<b>7-6</b>
▪ Media player	7-6
[Music files]	7-6
[Video files]	7-7
[USB storage devices]	7-8
▪ Common	7-8
▪ Display	7-8
▪ Radio	7-9
▪ Bluetooth	7-9
<b>FCC Warning</b>	<b>7-10</b>
<b>Trademarks and License</b>	<b>7-11</b>

# *1 System overview*

Component names and functions

- Control panel
- Steering wheel remote control

Turning the system on or off

Operating the touch screen

Home screen overview

Rear view overview



## Component names and functions



### 1 SEEK/TRACK DOWN button

- Each Time it is pressed softly, to switch to the home screen.

### 2 SEEK/TRACK UP button

- Each time it is pressed, it will move to MAP.

### 3 RADIO button

- Transit to Radio mode.

### 4 MEDIA button

- Transit to media select screen.

### 5 SETUP button

- Each time it is pressed shortly, it will move to Setup screen.
- When this is pressed and held, it will move to the System-info screen.

### 6 Power button

- Each time it is pressed shortly, to turn on/off the media.
- When this is pressed and held, 'Screen Saver' will turn on.
- Turning the Power button to the right increases the volume, and turning it to the left decreases the volume..

### 7 TUNE button

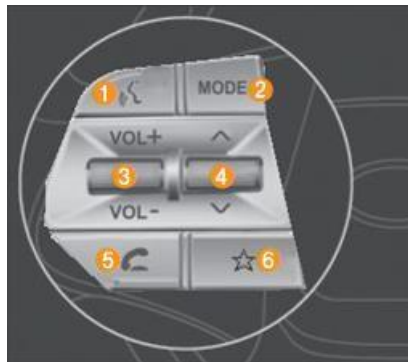
- Change list in Media Mode.
- In Radio, change the frequency.
- In Map screen, zoom in/out map view.

#### Note:

Keypad is available on only Premium trim.

# Component names and functions

## Steering wheel remote control



### 2 MODE button (MODE)

- **Each time this key is pressed** (under 0.8 seconds), mode is changed in order of Bluetooth Audio → AA/CP → USB Music → USB Video → FM → AM → Bluetooth Audio...
- If the media is not connected, corresponding modes will be skipped.
- Changing mode is not available while the system is booting.
- If the current screen is AV mode screen, the changed AV mode screen is displayed on the main area when the [MODE] key is pressed.
- If the current screen is not AV mode screen, the changed AV mode OSD is displayed on the top area when the [MODE] key is pressed. But, if there are no changes on AV mode, the OSD is not displayed.  
(Example: If only one AV mode is available according to the Steering Wheel Mode Button settings).
- If any mode is not set in 'Steering Wheel Mode Button' settings, go to the 'Steering Wheel Mode Button' settings screen.
- In the ear view screen, any OSD is not displayed.

#### Note:

- When AV is off, turns Radio/Media On.
  - When power is off, turns power on.
  - When display is off, changes the mode from the OSD and keeps the display off.
- **This key is pressed** (over 0.8 seconds), goes to the 'Steering Wheel Mode Button' settings screen.

### 1 PTT button (MIC)

- **Each time this key is pressed** (under 0.8 seconds),
  - **Not in Voice Recognition mode:**  
Activates voice recognition.
  - **System is saying in Voice Recognition mode:**  
Skips system saying and waiting for service.
  - **Waiting for service:**  
Resets waiting time and waits for service.
- **This key is pressed** (over 0.8 seconds),
  - **Now in Voice Recognition mode:** Ends voice recognition.
  - **Not in Voice Recognition mode:** Activates Siri Eyes Free.

### 3 Volume lever (VOL +/VOL-)

- Controls the volume.
- **Press & Hold the [VOL-]:** Same function as the [MUTE] key  
(If MUTE key is not supported).

### 4 SEEK UP/DN button (▲/▼)

- **Each time this key is pressed** (under 0.8 seconds),
  - **FM/AM mode:** Searches broadcast frequencies saved to Presets.
  - **MEDIA mode (USB/etc.):** Changes the track/file chapter (except AUX).
- **This key is pressed** (over 0.8 seconds),
  - **FM/AM mode:** Continuously changes the frequency until the key is released and plays the current frequency.
  - **MEDIA mode (USB/etc.):** Rewinds or fast forwards the track or file (except AUX).

### 5 Call button (PHONE)

- **Each time this key is pressed** (under 0.8 seconds),
  - When pressed in the incoming call screen, answers the call.
  - When pressed in the dial screen, makes a call.
- **This key is pressed** (over 0.8 seconds),
  - When pressed in the Bluetooth® Handsfree wait mode, redials the last call.

#### Note:

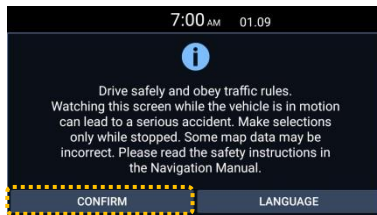
- Operates only when Bluetooth® Handsfree is connected.  
Please refer to Bluetooth Phone HMI Specification for more information.

### 6 Custom button (★)

- **This key is pressed** (over 0.8 seconds), operates the user customized function.  
If there is no customized function, goes to the Custom Button Settings screen.

## Turning the system on or off

- 1 Start the engine to turn on the system.
- 2 When a safety warning appears, read it and tap "Confirm".
  - Tap the Language to change your language.



The system will turn off automatically when the engine is stopped and a certain period of time passes.

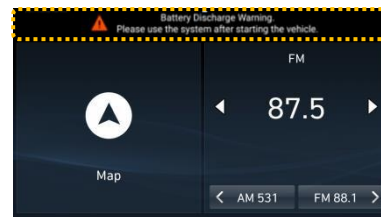
- When the engine is stopped, the system may turn off immediately depending on the vehicle model or specifications.
- When the engine is started and stopped again, the system will turn on by the mode and settings used when the engine has started.

### Warning

- For safety reasons, the video screen is not visible while driving. Watch the video after the vehicle stops. And for a self-shifter, after shifting the vehicle to P (parking) or applying the parking brake.
- In addition to watching videos, there are functions that are not performed while driving for safety reasons. These functions work normally only when the vehicle is stopped. Use the functions after the vehicle stops.
- If the system malfunctions, such as no screen or no sound, stop using it. Continued use in malfunctioning states can cause fire, electric shock, or fatal failure.

### Caution

- Even when the ignition switch is in the "ACC" or "ON" position, the system can be powered on, but the battery may be discharged if the system is used for a long time without starting the engine. To use the system for a long time, start the engine.
- If the engine is stopped and the system is used, a battery warning message will appear. When starting the engine, the battery warning message will disappear.



# Operating the touch screen

This system is equipped with a touch screen. Use various functions via touch screen input.



## Caution

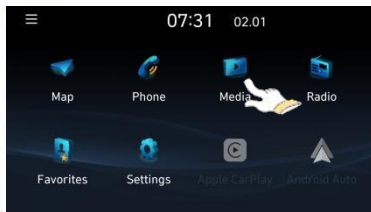
- Do not apply excessive pressure on the touch screen or press it with a pointed object. Doing so may damage or destroy the touch screen.
- Be careful not to let the electrified substance contact with the touch screen.  
The system may not work correctly or the touch screen may malfunction due to electrical stimulations such as static electricity.

## Note:

You can't manipulate the touch screen while wearing gloves. Remove gloves or wear gloves specially designed for use with electronic touch screens, to manipulate the screen.

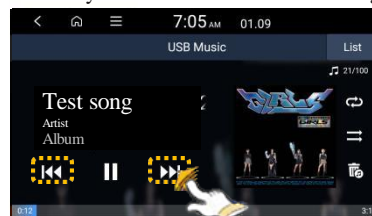
## Tap

Touch the desired item lightly on the screen, then lift your finger. The function will be performed or the menu will be selected.



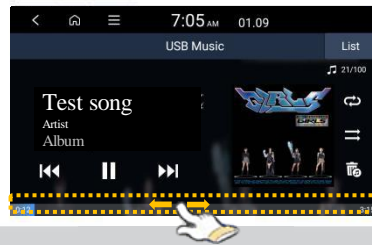
## Touch and hold

Touch and hold the desired item. It allows you to fast forward or rewind during media playback.



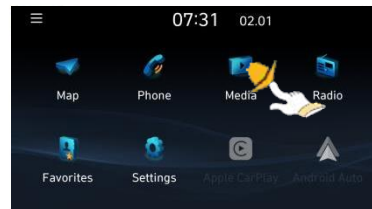
## Drag (drag and drop)

Touch and hold the desired item and drag it to the desired location without lifting your finger. You can then move the selected item or move the playback position during media playback.



## Slide (swipe)

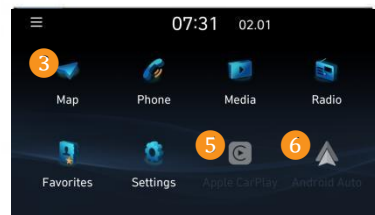
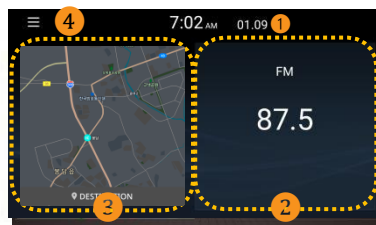
Swipe the screen lightly in the desired direction. Then, you can quickly move up and down or left and right on the menu screen or the option list.





## Home screen overview

Learn about the various functions the system provides on the Home screen.



### 1 Current date and time

### 2 View broadcast / media information

Tap this to display the currently running broad-cast/media functions in full screen.

### 3 Map

Real-time Map view window.

### 4 Menu

Tap this to edit Home Icons.

### 5 Apple CarPlay

Tap this to move to the CarPlayscreen.

### 6 Android Auto

Tap this to move to the Android Auto screen.

#### Note:

To move from another screen to the home screen, tap Home icon (🏠).

## Rear view overview

If you shift to “R” (Reverse) while the engine is running, the system screen will automatically display the rear view.

Park safely and conveniently using the rear view and parking guide displayed on the screen.



### 1 Neutral direction line (yellow)

These lines display the direction of progress when reversing from neutral. These allow you to determine whether the vehicle is standing in the right direction within the parking line or whether the distance between the vehicle and the adjacent vehicle is appropriate.

### 2 Crash warning lines (red)

These lines are to help prevent a vehicle crash.



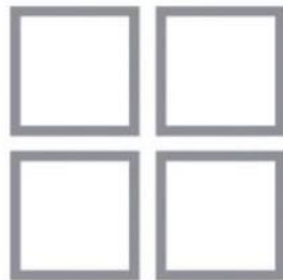
### Caution

- The distance shown on the screen may differ from the actual distance. For safety reasons, make sure to check visually the rear and left and right.
- In the rear view screen, any OSD is not displayed.

# *2 Useful Functions*

## **Using the phone projection**

- Pairing to an iPhone via Apple CarPlay
- Pairing to an Android smartphone via Android Auto



## Using the phone projection

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With the phone projection function, you can run and control applications on your Android smart-phone or iPhone using the system's wide screen and convenient user interface.



### Caution

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- It is recommended to use the genuine USB cable provided by the mobile phone manufacturer.  
If a non-genuine USB cable is used, the function may not work properly or the system may malfunction.
- Use only applications that support phone projection.  
If you use an application that does not support phone projection, it may cause problems with the system or smartphone.
- Only applications that support phone projection are displayed on the phone projection screen.  
For applications that support phone projection, check the following website.

**- Apple Carplay:**

<https://apple.com/ios/carplay>

**- Android Auto:**

<https://www.android.com/auto>

# Using the phone projection

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## • Pairing to an iPhone via Apple CarPlay

To use Apple Carplay, check the following first:

### Check whether your iPhone supports Apple Carplay

Check the iPhone models that support Apple Carplay on the Apple website (<http://apple.com/ios/carplay>).

### Activate or update Apple Carplay and Siri on your iPhone

Make sure the Apple Carplay and Siri functions are turned on in your iPhone's settings. If you don't have them, please update to the latest iOS version.

Follow these steps to start Apple Carplay.

- 1 Tap **Settings** ► **Device connections** ► **Apple Carplay** to activate the function from the home screen.

# Using the phone projection

## • Pairing to an iPhone via Apple CarPlay

2 Connect the iPhone to the vehicle's USB port using the USB cable provided when purchasing the iPhone.

- When you connect it for the first time, a notification window will appear on the system screen, then check the contents and tap OK.

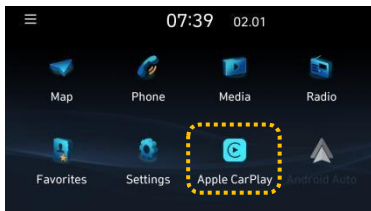
### Note:

- Do not repeat the action of connecting and disconnecting the USB connector for a short period of time.
- Doing so may cause errors in the device operation, the system may malfunction.

3 If your iPhone is locked, unlock it and agree to the use of phone projection.

- When the iPhone is recognized normally, the Apple Carplay menu will appear on the home screen.

4 Tap Apple Carplay on the home screen.



5 Use iPhone functions such as a call, message, and navigation in the system.

- Tap the icon on the screen to run the application or function.
- When a call comes in, press the (  ) button on the steering wheel to answer the call.

### Note:

- When playing music with the music player application on a smartphone, music does not play directly through the system even if the phone projection is connected. To play music via the system, run an application on the phone projection screen to play music, or press and hold the [MEDIA] button and select the phone projection function in the media selection window.

6 Disconnect the USB cable from the system to end Apple Carplay.

### Note:

- Phone projection settings cannot be changed while phone projection is running. Disconnect the USB cable to change the settings.
- Applications and functions that can be used with Apple Carplay are subject to change according to Apple's policy. Visit the Apple website (<http://apple.com/ios/carplay>) to check supported functions.
- Update the OS of the smartphone to be connected to the latest version to use in an optimized environment.
- Depending on the connected device type, firmware, and OS version, there may be a difference in recognition time.
- When using phone projection, communication fees may apply.
- Depending on the network signal condition, some functions may not work smoothly.
- Refrain from operating the smartphone while phone projection is running.
- While using Carplay, the following functions cannot be used.
  - Bluetooth audio
  - USB mode
  - Android Auto

# Using the phone projection

## • Pairing to an Android smartphone via Android Auto

To use Android Auto, check the following first:

### Check whether your Android smartphone supports Android Auto

Check the countries, device types, and models that support Android Auto on the Android homepage (<https://www.android.com/auto>)

### Install the Android Auto application on your smartphone

Download and install the Android Auto application from the Google Play store.

Follow the steps below to start Android Auto:

- 1 Connect the smartphone to the vehicle's USB port using the USB cable provided when purchasing the smartphone.
  - When you connect it for the first time, a notification window will appear on the system screen, then check the contents and tap OK.

#### Note:

- Do not repeat the action of connecting and disconnecting the USB connector for a short period of time.
- Doing so may cause errors in the device operation, the system may malfunction.

- 2 If your smartphone is locked, unlock it and agree to the use of phone projection.
  - When the smartphone is recognized normally, the Android Auto menu will appear on the home screen.
- 3 Tap Settings ► Device connections ► Android Auto to activate the function from the home screen.

# Using the phone projection

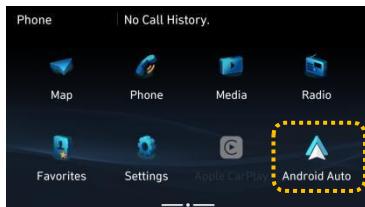
## ▪ Pairing to an Android smartphone via Android Auto

4 Tap Android Auto on the home screen.

5 Use smartphone functions such as a call, message, and navigation in the system.

- Tap the icon on the screen to run the application or function.
- Press the (  ) button on the steering wheel to activate Bluetooth phone.

- When playing music with the music player application on a smartphone, music does not play directly through the system even if the phone projection is connected. To play music via the system, run an application on the phone projection screen to play music, or press and hold the [MEDIA] button and select the phone projection function in the media selection window.



6 Disconnect the USB cable from the system to end Android Auto.

### Note:

- Phone projection settings cannot be changed while phone projection is running. Disconnect the USB cable to change the settings.
- The screen icon is subject to change according to Google's policy.
- Applications and functions that can be used with Android Auto are subject to change according to Google's policy. Visit the Android website (<http://www.android.com/auto>) to check supported functions.
- Update the OS of the smartphone to be connected to the latest version to use in an optimized environment.
- Depending on the connected device type, firmware, and OS version, there may be a difference in recognition time.
- When using phone projection, communication fees may apply.
- Depending on the network signal condition, some functions may not work smoothly.
- Refrain from operating the smartphone while phone projection is running.
- While using Android Auto, the following functions cannot be used.
  - Bluetooth audio
  - USB mode
  - Apple CarPlay

# 3 *Radio*

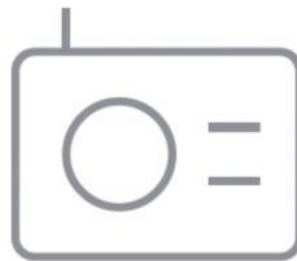
**Listening to the radio**

**Saving radio channels**

- Saving a current channel

**Changing the radio mode**

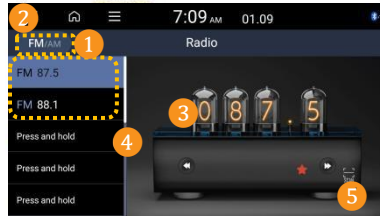
**Using the scan function**





# Listening to the radio

Tap **Radio** on the home screen interface.



- 1 Changes the radio mode.
- 2 Moves to the previous step screen.
- 3 Radio station information
- 4 Preset list
- 5 Scan stations with good reception.

## Saving radio channels

Save frequently listened radio stations for easy selection and listening.

### ▪ Saving a current channel

Please press and hold the list items on the left. While listening to broadcast:

- The current channel will be saved to the selected number.



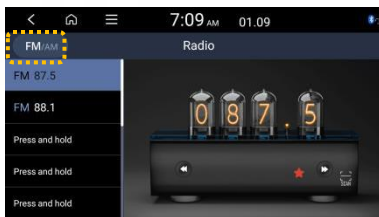
### Note:

- Upto 40 channels can be saved.

## Changing the radio mode

Tap the desired mode at the top of the radio screen to change the radio mode.

- Press the **[RADIO]** button on the control panel repeatedly to change the mode in the order of FM ► AM.



## Using the scan function

You can select the desired station while listening to the radio station for a while.

1 Tap the scan on the radio screen.

- It will be searched for a channel with good reception and played it for 5 seconds, then the next channel will be searched and played for 5 seconds, and this process will be repeated.

2 To find the broadcast you want to listen to, tap Scan.

- You can continue to listen to the current broadcast.

# 4 *Media player*

## Using the media player

- Operating the media player
  - Listening to music

[Searching for music files in the list]

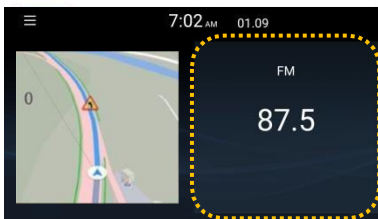
- Watching videos
- [Searching for video files in the list]



# Using the media player

You can play music/videos saved in various media devices such as USB storage devices.

- 1 Tap the broadcast/media information area on the home screen or press the [MEDIA] button on the control panel.
  - If multiple media are connected, press the [MEDIA] button once more, and then select the media in the media selection window.

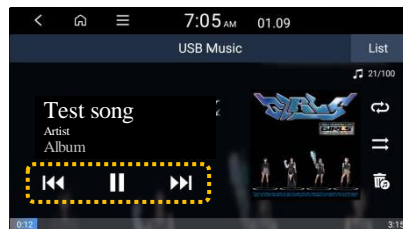


## Note:



- The shape and arrangement of buttons on USB terminals may vary depending on vehicle type and specifications.

## Operating the media player

Use the buttons on the playback screen to listen to the music/video you want.



## Pause/Resume

Tap (  ). Tap (  ) to start over.

## Rewind/Fast forward

Touch and hold (  ) or (  ),

- You can also push and hold the [  /  ] lever on the steering wheel.

## Restart current music/video


3 seconds after playback starts, tap (  ).

- You can also push the [  /  ] lever down on the steering wheel.

# Using the media player

## • Operating the media player

### Play previous or next music/video

To play the previous music/video, within 3 seconds of starting playback, tap(  ),

To play the next music/video, tap(  ),

- You can also use the [ / \ ] lever on the steering wheel.

#### Note:

- After 3 seconds have passed since playback starts, you can play the previous music/video by tapping (  ) twice.

### Repeat play

Press (  ) to change the repeat play mode.

- Each time the button is pressed, it will change to the corresponding mode icon.

#### Note:

- The repeat play mode performed depends on the currently playing list.

### Play in random order

Press (  ) to activate the random play mode to play music in random order.

#### Note:

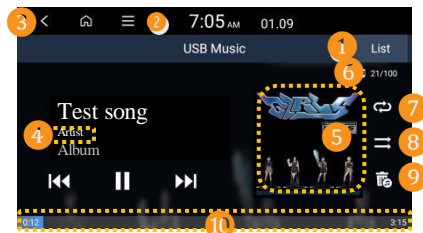
- When playing a video, the random play function is not supported.
- For specific details of each media, refer to the media description. The Bluetooth audio mode is described in the chapter “Bluetooth”.

## Using the media player

In USB mode, you can play media files stored on a portable device such as a USB storage device. Check the specifications of USB storage devices and files that can be used.

### • Listening to music

- 1 Connect the USB device to the vehicle's USB port.
- 2 Tap the broadcast/media level area on the home screen, or press the [MEDIA] button on the control panel.
  - The media player will be displayed in full screen.
  - If multiple media are connected, press the [MEDIA] button once more, and then select the USB music in the media selection window.



- 1 Moves to the file list screen.
- 2 Displays the option list.
  - **Display Off:** Turn off the "Display" screen.
  - **Media Sources:** Move to the media selection window.
  - **Songs by this Artist:** Moves to the artist list with the song playing.
  - **Songs from this Album:** Moves to the album list with the song playing.
  - **Hide Current file:** Hides the file being played.
  - **Sound settings:** Sets the system sound.
- 3 Moves to the previous step screen.
- 4 Tap the artist information.
  - Tap the artist information being played to move to the artist list with the song.
- 5 Tap the album artwork.
  - Tap the album artwork being played to move to the album list with the song.
- 6 Current file information.
  - Current file number and number of files to be played.
- 7 Repeat play mode.
- 8 Random play mode.
- 9 Delete the current music file.
- 10 Played time and current playing position.

# Using the media player

## • Listening to music



### Caution

- Be sure to connect the USB device while running the engine. If you start the engine after connecting the USB device, it may be damaged.
- When connecting or disconnecting a USB device, be careful of static electricity. The system may have malfunction due to static electricity.
- Be careful not to touch the USB port with any body or foreign objects. Doing so may cause an accident or system malfunction.
- Do not repeat the action of connecting and disconnecting the USB connector for a short period of time. Doing so may cause errors in the device operation, the system may have malfunction.
- Do not use a USB device for any purpose other than playing media files. Using a USB accessory for charging or heating purposes may cause system degradation and malfunction.

### Note:

- The file hide function can only be used on a FAT16/32 or NTFS format USB storage device, and the hidden files can be found in the "Hidden" folder.

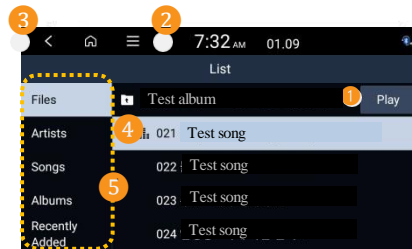
### Note:

- When connecting a USB storage device, do not use a separate extension cable, but connect directly to the USB port. If connected with a USB hub or extension cable, the device may not be recognized.
- Push the USB connector all the way into the USB port. If the connector is not fully inserted, communication problems may occur.
- When disconnecting a USB device from the system, noise may occur.
- Only files encoded in the standard format can be played.
- The following USB devices may not be recognized or may not operate normally:
  - Encrypted MP3 player
  - USB devices not recognized as removable disks
- Depending on the state of the USB device, it may not be recognized.
- Some USB devices may not be supported due to compatibility issues.
- Depending on the type and capacity of the USB device, and the format of the saved file, the USB device recognition time may be longer.
- Depending on the USB specifications, some devices may not support charging via USB connection.

## [Searching for music files in the list]

Search for and play the music you want, on the list screen.

- 1 Tap the list on the USB music playback screen.
- 2 Tap the screen to open folders, move categories, and play music files.



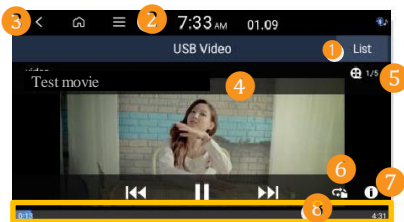
- 1 Play all songs in a folder repeatedly.
- 2 Displays the option list.
  - **Now Playing:** Return to the location of the currently playing file, while navigating through the list and searching for files.
- 3 Moves to the previous step screen.
- 4 Plays all files in the selected folder or category.
- 5 You can search for songs by category.
  - In the artist or album category, you can select multiple artists or albums and play them.

# Using the media player

## ▪ Watching videos

Connect the USB device to the vehicle's USB port, then press the [MEDIA] button on the control panel.

- If multiple media are connected, press the [MEDIA] button once more, and then select the media in the media selection window.

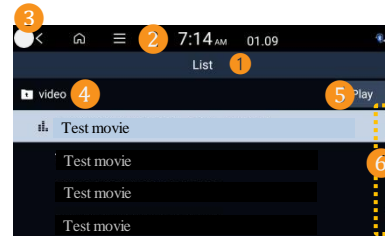


- 1 Moves to the file list screen.
- 2 Displays the option list.
  - **DisplayOff**: Turn off the "Display" screen.
  - **Media Sources**: Changes to another audio source.
  - **Songs by this Artist**: View a list of other music sources by this artist.
  - **Songs from this Album**: View a list of other music sources by this album.
  - **Hide Current File**: Hides the currently playing music file. Hidden music files are moved to the Hidden\_folder on the USB.
  - **Sound Settings**: Sets the system sound.
- 3 Moves to the previous step screen.
- 4 File name.
- 5 Current file number and number of files to be played.
- 6 Repeat play mode.
- 7 Displays file details.
- 8 Played time and current playing position.

## [Searching for video files in the list]

Search for and play the video you want, on the list screen.

- 1 Tap the list on the USB video playback screen.
- 2 Tap the screen to open folders, move categories, and play video files.



- 1 Play all video files in a folder repeatedly.
- 2 Displays the option list.
  - **DisplayOff**: Turn off the "Display" screen.
  - **Media Sources**: Changes to another audio source.
  - **Now Playing**: Returns to the location of the currently playing file, while navigating through the List and searching for files.
- 3 Moves to the previous step screen.
- 4 Moves to the parent folder.
- 5 Plays all files in the selected folder or category.
- 6 Scroll bar



# 5 *Bluetooth*

## **Connecting a Bluetooth device**

- Registering a device
- Connecting a registered device
- Disconnecting a connected device
- Deleting a registered device

## **Using Bluetooth audio**

## **Using a Bluetooth phone**

- Making a call
  - [Using the recent calls list]
  - [Using a contact list]
  - [Using the keypad]
- Answering a call
- Using the functions during a call
  - [Transferring a call]
- Setting favourites



# Connecting a Bluetooth device

Bluetooth is a short-range wireless networking technology.

If you use the Bluetooth communication function, you can exchange data by connecting Bluetooth devices that are close to each other without a cable connection, so you can use various devices more efficiently.

To use the Bluetooth function, another device, such as a mobile phone or MP3 player that supports the Bluetooth function, must be connected to the system. Check if the device to be connected supports Bluetooth.

## Caution

- Connect the Bluetooth device after stopping the vehicle in a safe place. If an accident occurs due to not looking ahead or carelessness, the driver or passenger may be killed or injured.


## Note:

- The Bluetooth connection function only supports hands-free and audio-related functions. Connect and use a device that supports Bluetooth hands-free or audio function, such as a mobile phone or MP3 player.

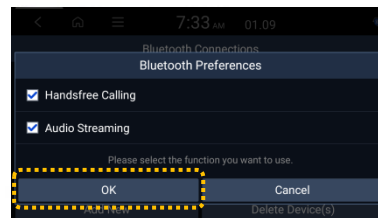
## ■ Registering a device

In order to connect a Bluetooth device to the system, the device must first be registered in the system's Bluetooth device list. Up to 5 devices can be registered.

1 Tap **Settings** ► **Device connections** ► **Bluetooth** ► **Bluetooth connections** ► **Add new** on the home screen.

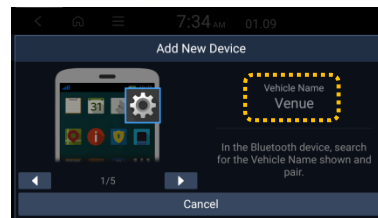
- When registering a Bluetooth device for the first time, press the  button on the steering wheel, or tap **Phone** on the home screen.

2 Select a function you want to use and press **OK**.



3 On the Bluetooth device you want to connect to, run Bluetooth, and then in the searched device list, find and select the vehicle's system.

- Check the Bluetooth name of the system in the Add new notification window.



# Connecting a Bluetooth device

## • Registering a device

- 4 Check that the authentication number is the same on the Bluetooth device screen and the system screen, and then on the device, approve the connection.
- 5 Select whether to set the Bluetooth device to be connected with priority automatically.
  - If automatic priority connection is allowed, the device is automatically connected when the system is turned on.
- 6 If the Bluetooth device is a mobile phone, to download contacts from your mobile phone to the system, allow access requests on the mobile phone.
  - The access authority is only required when using the Bluetooth phone function, so it is not necessary to allow it when connecting an audio device.

### Note:

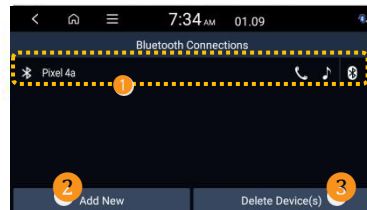
- After allowing access from the mobile phone, it may take some time for the Bluetooth connection to complete. When the Bluetooth connection is complete, the Bluetooth connection status indicator icon is displayed at the top of the screen.
- The settings for allowing access to data can be changed using the Bluetooth setting menu of the mobile phone. For more information, refer to the user manual of the mobile phone.
- Repeat steps 1-5, to register additional new devices.
- While connecting and using a Bluetooth device, other devices cannot be registered.
- To disable the Bluetooth auto-connect function, deactivate the device's Bluetooth function.

## • Connecting a registered device

To use a Bluetooth device, a registered device must be connected to the system.

You can connect your system with one device for Bluetooth Handsfree or one device for Bluetooth Audio and Handsfree.

- 1 Tap **Settings** ► **Device connections** ► **Bluetooth** ► **Bluetooth connections** on the home screen.
- 2 Tap the connection, to the name of the device to be connected.



- 1 **Connect / disconnect device list.**
  - Tap the device name to be connected / disconnected.
- 2 **Registers a new device.**
- 3 **Deletes the registered device.**
  - All contacts and call lists downloaded to the system are deleted.

### Note:

- If you cannot connect a Bluetooth device, check if Bluetooth is activated on the device.
- If the connected device is out of range or the connection is abnormally ended due to a device error, the connection is automatically restored when the device comes back in range or becomes normal.

## Connecting a Bluetooth device

---

### ▪ Disconnecting a connected device

If you do not want to use the Bluetooth function, disconnect the current Bluetooth connection.

- 1 Tap **Settings** ► **Device connections** ► **Bluetooth** ► **Bluetooth connections** on the home screen.
- 2 Touch the connected device name.
- 3 Touch "Disconnect".

### ▪ Deleting a registered device

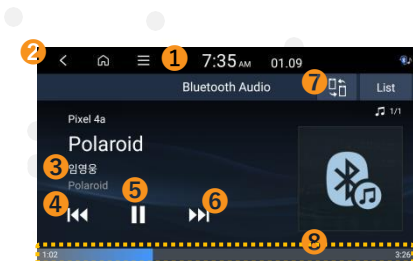
If you are no longer using a Bluetooth device or want to connect a new device when 5 devices are already registered, delete the registered devices.

- 1 Tap **Settings** ► **Device connections** ► **Bluetooth** ► **Bluetooth connections** ► **Delete device(s)** on the home screen.
- 2 Select the device you want to delete, then tap the Delete.
  - To delete all registered devices, tap **Mark all** ► Delete.
- 3 Tap "Yes".

# Using Bluetooth audio

You can enjoy music played on the connected Bluetooth audio device through the vehicle's speaker.

Press the [MEDIA] button on the control panel.



**1 Displays the option list.**

- **Display Off:** Turn off the "Display" screen.
- **Media Sources:** Changes to another audio source.
- **Songs by this Artist:** View a list of other music sources by this artist.
- **Songs from this Album:** View a list of other music sources by this album.
- **Hide Current File:** Hides the currently playing music file. Hidden music files are moved to the Hidden\_folder on the USB.
  - **Sound Settings:** Sets the system sound.

**2 Moves to the previous step screen.**

**3 Song information being played.**

**4 Starts over the current song, from the beginning.**

- Play the previous file when tapped twice in succession.  
You can also press the [Λ / ∨] lever on the steering wheel.

**5 Pauses or resumes playback.**

**6 Plays the next file.**

- Play the next file when tapped twice in succession.  
You can also press the [Λ / ∨] lever on the steering wheel.

**7 Finds and connects other Bluetooth devices.**

**8 Played time and current playing position.**

## Warning

- The operation method may differ depending on the connected Bluetooth device or mobile phone, or the music player application you are using.
- Streaming function may not be supported depending on the music player application you use.
- Some functions may not be supported depending on the connected Bluetooth device or mobile phone.
- When a media device or mobile phone is connected via Bluetooth and USB cables at the same time, the device or system may not function properly.  
To use a Bluetooth connection, disconnect all cables connected to the device.

# Using a Bluetooth phone

You can use the phone function without operating the mobile phone directly, via Bluetooth connection. Check the call information on the system screen, and use the phone function safely and conveniently by using the microphone and speaker built into the system.


## Warning

- Connect the mobile phone after stopping the vehicle in a safe place. If an accident occurs due to not looking ahead or carelessness, the driver or passenger may be killed or injured.
- Do not dial a phone number or pick up a mobile phone and talk while driving. Distracted attention due to the use of a mobile phone makes it difficult to recognize the flow of nearby vehicles, and the ability to cope with unexpected situations significantly decreases, causing an accident. So, if necessary, use the Bluetooth hands-free function to make calls, and minimize the call time.

## ▪ Making a call

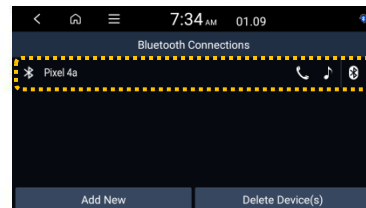
You can make a call from the connected mobile phone's recent call list or contact list. You can also make a call by entering the phone number directly on the keypad.

1 Tap **Phone** on the home screen.



- Or press the (  ) button on the steering wheel.

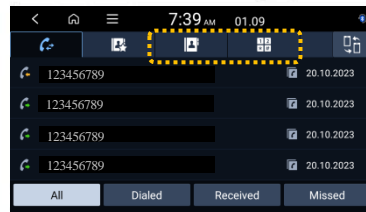


2 If multiple mobile phones are registered, select a mobile phone to connect to when the device selection window appears.



3 Select a phone number from the recent calls list.

- You can also move to the desired number by pushing the [^ / v] lever on the steering wheel without tapping the screen.
- To make a call by selecting a phone number from the contact list downloaded from a connected mobile phone, tap (  ).
- To make a call by manually entering a phone number, tap (  ).



4 To end the call, press the (  ) button on the steering wheel during a call or tap the end on the call screen.

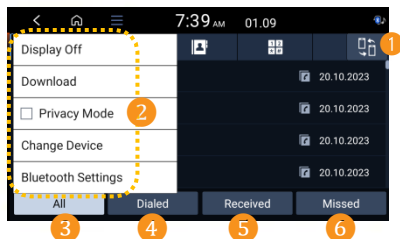
# Using a Bluetooth phone

## • Making a call

### [Using the recent call list]

1 Tap (📞) on the Bluetooth phone screen.

2 Select a call log to make a call from the list.



1 Finds and connects other Bluetooth devices.

2 Displays the option list.

- **Display Off:** Turn off the "Display" screen.

- **Download:** Downloads a recent call list from the connected phone.

- **Privacy Mode:** Activates the privacy lock mode to protect the personal information.

When this mode is activated, data downloaded from the phone is not displayed.

- **Change Device:** Finds and connects other Bluetooth devices.

- **Bluetooth Settings:** Move to the Bluetooth Settings screen.

3 Displays all call logs.

4 Displays only outgoing calls.

5 Displays only incoming calls.

6 Displays only missed calls.

### Note:

- The call time information is not displayed on the system screen.
- If the download is not allowed on the mobile phone, the call list cannot be downloaded; depending on the mobile phone model, the download may require approval from the mobile phone when downloading. If the download does not proceed normally, check the screen status or settings of the mobile phone.
- When the call list is newly downloaded, the existing data is deleted.

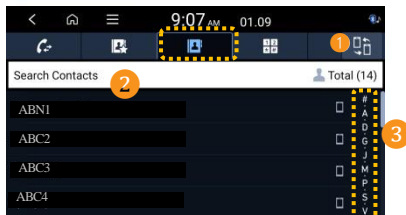
# Using a Bluetooth phone

## • Making a call

### [Using a contact list]

1 Tap (  ) on the Bluetooth phone screen.

2 Select a contact to make a call from the list.




- 1 Finds and connects other Bluetooth devices.
- 2 Searches for a contact by entering a name or phone number.
- 3 Quickly finds a contact by selecting the index.

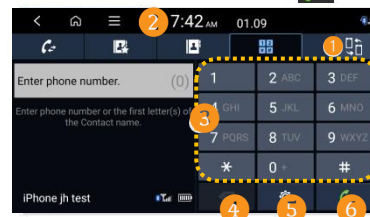
### Note:

- Only the contacts that can be displayed are downloaded from the connected Bluetooth device. Contacts saved in some applications may not be displayed.
- Contacts are downloaded up to 2,000 per device.
- If the download is not allowed on the mobile phone, the contact list cannot be downloaded; depending on the mobile phone, the download may require approval from the mobile phone when downloading. If the download does not proceed normally, check the screen status or settings of the mobile phone.
- Depending on the mobile phone model or operating status, it may take a long time to download contacts.
- When the contact is newly downloaded, the existing data is deleted.
- Downloaded contacts cannot be edited or deleted from the system.
- If another mobile phone is newly connected, contacts downloaded from the old phone are not displayed on the screen, but are kept in the system until the registered device is deleted.

### [Using the keypad]

1 Tap (  ) on the Bluetooth phone screen.

2 After entering the phone number on the keypad, tap (  ) to make a call.



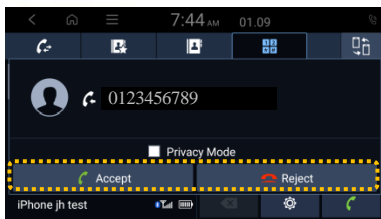
- 1 Finds and connects other Bluetooth devices.
- 2 Displays the option list.
  - **Display Off**: Turn off the "Display" screen.
  - **Privacy Mode**: Activate the privacy lock mode to protect the personal information. When this mode is activated, data downloaded from the phone is not displayed.
  - **Change Device**: Finds and connects other Bluetooth devices.
  - **Bluetooth Settings**: set Device Connections Settings
- 3 Enter a phone number by using the keypad.
- 4 Delete the phone number you entered.
- 5 Changes the Bluetooth connection settings.
- 6 Dial the phone number you entered.




# Using a Bluetooth phone

## ▪ Answering a call

When a call is received, an incoming call notification window will appear on the system screen.



1 To answer the call, tap the **Accept**.

- Or press the (  ) button on the steering wheel.

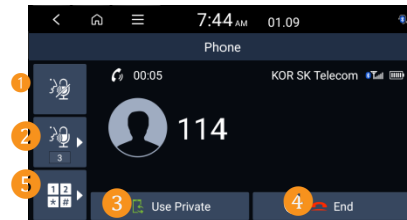
### Note:

- When a mobile phone is connected to the system, a dialing tone may be output through the speaker. To end the connection, disconnect the Bluetooth connection from the system or disable the Bluetooth function of the mobile phone.
- The privacy lock mode is activated by tapping the privacy mode in the incoming call notification window. When this mode is activated, contact information is not displayed on the screen. To cancel the privacy lock mode, tap **Menu** ► **Privacy mode** on the device screen to cancel this selection.

## ▪ Using the functions during a call

During a call, the following screen appears.

1 Tap the desired button to perform the function.



- 1 Turns off the microphone so that the other party cannot hear you.
- 2 Adjusts the microphone volume.
- 3 Transfers calls to a mobile phone.
  - This may not be supported depending on the connected mobile phone model.
- 4 Ends the call.
- 5 Displays the keypad screen.

### Note:

- If the caller's information is saved in the contact, the caller's name and phone number are displayed. If the caller's information is not saved in the contact, only the phone number is displayed.
- During a call with a Bluetooth phone, you cannot move to other screens such as broadcast/media mode screen.
- Depending on the mobile phone model, the volume of the call heard by the other party may vary.
- Depending on the mobile phone model, the phone number may not be displayed.

# Using a Bluetooth phone

## • Using the functions during a call

### [Transferring a call]

When using a mobile phone that supports call waiting, you can answer new calls while on a call.

The existing call will then be transferred to the hold state.

- 1 To switch between an active call and a waiting call, tap the switch on hold or tap the phone number displayed on the screen.




### Note:


- The function may not be supported depending on the mobile phone model.

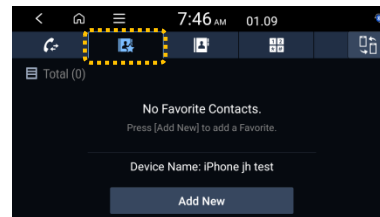
## • Setting favourites

If frequently used phone numbers are registered in the favourites, you can easily use the phone function.

- 1 Tap **Phone** on the home screen.

- Or press the (  ) button on the steering wheel.

- 2 Tap (  ) on the device screen.



- 3 On the favourites screen, tap the **Add New**, then select a name from the contact list.

- If you have a contact you have already added, tap **Menu** ▶ **Edit** on the favourites screen.

- 4 Tap the grey star button (  ) to the right of the phone number to be registered in the favourites.

- Then, the star on the button will change to orange, and the phone number will be added to the favourites list.

### Note:

- In the favourites, up to 10 per device can be registered.
- In the favourites list, representative emergency phone numbers are saved so that they can be used immediately in case of an emergency.
- To delete phone numbers registered in favourites, tap **Menu** ▶ **Delete** from the favourites list.
- If another mobile phone is newly connected, contacts saved as favourites from the old phone are not displayed on the screen, but are kept in the system until the registered device is deleted.

# ***6 Settings***

## **Setting the sound**

- Setting the system sound

## **Setting the device connections**

## **Setting the display**

## **Setting the button**

## **Setting the general**

## **Setting the vehicle**



# Setting the sound

Changes settings related to the sound output from the vehicle's speakers.

## ▪ Setting the system sound

**1** Tap **Settings** ► **Sound** on the home screen.

### Position

Select a position where sound is more audible in the vehicle.

### Sound Tuning

Adjust the sound by adjusting the strengths (output levels) for each audio band :

Bass, Midrange, and Treble.

### Driving Guidance

- **Parking Safety Priority:** Lowers all other audio volumes when a parking assist view is active.
- **Navigation Guidance During Calls:** Plays audio Navigation Guidance during phone calls.
- **Navigation Guidance:** Lowers all other audio volumes when Navigation prompts are playing.

### System Volumes

- **Subsystem Volumes:** Adjusts the volume of the system functions individually.
- **Connected device volume:** Adjusts the volume of the phone projection function individually.
- **Start-up Volume Limit:** If the audio volume is set to high when starting the vehicle, You can set it to output an appropriate volume by automatically adjusting the volume.

### Reset

Initializes all of the sound settings.

# Setting the device connections

---

Manages Bluetooth devices or configures the usage environment.

In addition, by connecting the system and the smartphone, the phone projection function is activated so that the application of the smartphone can be controlled from the system screen.

**1** Tap **Settings ▶ Device connections** on the home screen.

## Bluetooth

- **Bluetooth connection:**  
Newly registers a Bluetooth device to the system or connects or disconnects the device.  
Deletes also the registered device.
- **Auto Connection Priority:**  
Sets the priority order of Bluetooth devices to automatically connect to the system when the engine is started.
- **Bluetooth System Info:**  
Checks the Bluetooth information in the system.
- **Privacy mode:**  
Activate the privacy lock mode to protect the personal information.  
When this mode is activated, data downloaded from the phone is not displayed.

## Android Auto

Activates the Android Auto function to pair the system with the Android Phone.

## Apple CarPlay

Activates the Apple CarPlay function to pair the system with the iPhone.

# Setting the display

---

Changes screen-related settings, such as screen brightness and colour.

**1** Tap **Settings** ► **Display** on the home screen.

## Illumination

Sets it to automatically adjust the screen brightness or sets it to always be bright or always dark.

## Screen Saver

Sets the screen displayed when the system enters the standby state.

## Camera

- **Adjust:** Adjusts the brightness and contrast of the rear camera image.

## Media Change Notifications

Sets to display media information at the top of the screen when the play item changes when it is not the media play screen.

When the playback item is changed using the control panel or steering wheel, media information is displayed regardless of the setting.

## Reset

Initializes all of the screen settings.

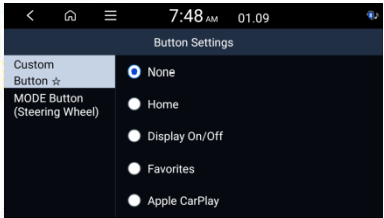
# Setting the button

Customize the system button action.

1 Tap **Settings** ► **Button Settings** on the home screen.

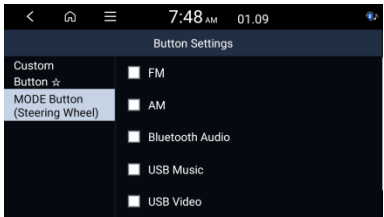
## Custom Button ☆

Selects the user customized function when the [★] button is pressed on the steering wheel.



## MODE Button (Steering Wheel)

Selects the broadcast/media mode to be performed when the [MODE] button is pressed on the steering wheel.



# Setting the general

---

Sets the system usage environment such as date, time and language.

**1** Tap **Settings** ► **General** on the home screen.

## System information

- **System Info:**  
Checks various information about the system version.
- **License:**  
Check information about license.
- **User's Manual on the Web (QR Code):**  
Check User's Manual by scanning QR code.
- **Reset:**  
Initializes all of the system settings.  
When the initialization is performed, all user data stored in the system, including the place saved in the navigation system, will be deleted.

## Date / time

- **Apply the GPS time:**  
Sets to receive time information from the GPS.  
When this function is deactivated, the date and time can be entered directly.
- **Time format:**  
Sets to display the time in a 24-hour or 12-hour format.

## Language

Change the display language used in the system.



# Setting the vehicle

Set up functions related to the vehicle's driving or internal and external environment.

1 Tap **Settings** ► **Vehicle Settings** on the home screen.



## Caution

- Please change the settings after stopping the vehicle for safety reasons.
- The vehicle settings can only be changed when the vehicle is powered on..
- Depending on the vehicle type and specification, the items that can be set may vary.
- Some features may not be supported depending on the specifications of the air conditioning applied to the vehicle.

## Warning

- Be sure to check the condition of the road while driving. The driver assistance system provides assistance for the safety and convenience of the driver when driving. Driving that relies solely on functions can lead to traffic violations and cause traffic accidents.
- When driving, the driver shall operate the vehicle by himself/herself, comply with traffic laws and regulations, and drive safely. Even if the function is in operation, the driver must look ahead, check the surroundings and drive.
- Always check your surroundings while driving. The warning or assistance of the driver assistance system may not operate or may operate unnecessarily, depending on the surrounding environment or driving conditions..

## Note:

Menu items are shown differently according to vehicle's option feature.

## Driver Assistance

- **Driving Convenience:**  
Sets the properties of the Driving Convenience system.
- **Warning Methods:**  
Sets the warning methods for the Driver Assistance systems.
- **Driver Attention Warning:**  
Sets the properties of Driver Attention Warning system.
- **Driving Safety:**  
Lowers all other audio volumes when a driving safety system sounds a warning.
- **Parking Safety:**  
Sets the properties of Parking Safety system.

## Cluster

- **Illumination:**  
Sets it to automatically adjust the screen brightness or sets it to always be bright or always dark.
- **Cluster Theme Selection:**  
Cluster uses the selected theme.
- **Content Selection:**  
Selects contents to be shown on the cluster display.
- **Cluster Voice Guidance Volume:**  
Adjusts the Voice Prompt volume level.
- **Welcome Sound:**  
Provides an audible tone when the cluster turns On or Off.

# Setting the vehicle

---

Set up functions related to the vehicle's driving or internal and external environment.

## Climate

- **Recirculate Air :**

Blocks the flow of outside air into the vehicle cabin.

## Lights

- **One Touch Turn Signal:**

Selects the number of times the turn signal blinks when the turn signal lever is moved slightly.

- **Welcome Mirror/Light:**

Selects the condition when the outside mirrors will unfold and the door handle light will turn on automatically.

- **Headlight Delay:**

Exterior lighting stays on for 15 seconds after user leaves the vehicle with the ignition turned off and doors closed.

- **High Beam Assist:**

Assists in reducing the high beam glare which affects drivers in oncoming vehicles.

## Door

- **Auto lock:**

Selects the timing for automatic locking all doors.

- **Auto unlock:**

Selects the condition when all doors will unlock automatically.

- **2 Press Unlock:**

Unlocks all doors when the unlock button is pressed twice. (Press once to unlock Driver Door only)

## Convenience

- **Rear Occupant Alert:**

If a rear door is opened or closed, the driver is reminded to check the rear seats for passengers or items before leaving the vehicle.

- **Service Interval:**

Sets the service interval by Distance and Duration.

- **Wireless Charging System for Mobile Devices:**

Enables the wireless charging pad to be used with compatible devices.

- **Auto Rear Wiper (in R):**

Activated the rear windshield wiper automatically when the front wiper is On and the gear position is in reverse.

# 7 Appendix

**Safety warnings**

**Safety cautions**

**Troubleshooting**

- Sound and display
  - USB playback
- Bluetooth connection
  - Phone projection
  - System operation

**Product specifications**

- Media player
  - [Music files]
  - [Video files]
- [USB Storage devices]
  - Common
    - Display
    - Radio
  - Bluetooth

**Trademarks and Licenses**



# Safety warnings

---

For safety, follow the instructions below.

Failure to do so may increase the risk of a traffic accident, which may result in death or personal injury.

## About driving

---

### **Do not operate the system while driving.**

- Driving while distracted may result in a loss of vehicle control, potentially leading to an accident, severe personal injury, or death. The driver's primary responsibility is the safe and legal operation of a vehicle, and any handheld devices, equipment, or vehicle systems which divert the driver's attention from this responsibility should never be used during operation of the vehicle.

### **Avoid watching the screen while driving.**

- Driving while distracted may lead to a traffic accident.
- Stop your vehicle in a safe location before using functions that require multiple operations.

### **Stop your vehicle first before using your mobile phone.**

- Using a mobile phone while driving may lead to a traffic accident.
- If necessary, use the Bluetooth Handsfree feature to make calls and keep the call as short as possible.

### **Keep the volume low enough to hear external sounds.**

- Driving without the ability to hear external sounds may lead to a traffic accident.
- Listening to a loud volume for a long time may cause hearing damage.

## About handling the system

---

### **Do not disassemble or modify the system.**

- Doing so may result in an accident, fire, or electric shock.

### **Do not allow liquids or foreign substances to enter the system.**

- Liquids or foreign substances may cause noxious fumes, a fire, or a system malfunction.

### **Stop using the system if it malfunctions, such as no audio output of display.**

- If you continue using the system when it is malfunctioning, it may lead to a fire, electric shock, or system failure.

### **Note:**

- If you experience any problems with the system, contact your place of purchase or dealer.

# Safety cautions

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For safety, follow the instructions below.

Failure to do so may result in personal injury or damage to the system.



## About operating the system

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### Use the system with the engine running.

- Using the system for a long time when the engine is stopped may discharge the battery.

### Do not install unapproved products.

- Using unapproved products may cause an error while using the system.
- System errors caused by installing unapproved products are not covered under the warranty.



## About handling the system

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### Do not apply excessive force to the system.

- Excessive pressure on the screen may damage the LCD panel or the touch panel.

### When cleaning the screen of button panel, make sure to stop the engine and use a soft, dry cloth.

- Wiping the screen or buttons with a rough cloth or using solvents (alcohol, benzene, paint thinner, etc.) may scratch or chemically damage the surface.

If you attach a liquid-type air freshener to the fan louver, the surface or the system of the louver may become deformed due to the flowing air.

### Note:

- If you experience any problems with the system, contact your place of purchase or dealer.

# Troubleshooting

Before reporting a malfunctioning system, refer to the following table and see if you can identify and fix the problem. If the problem persists or you are unable to locate your specific need, contact your place of purchase or dealer.

## • Sound and display

Symptom	Possible cause	Solution
No sound	System turned off	<ul style="list-style-type: none"><li>• Ensure that the engine start / stop button is set to "ACC" or "ON".</li><li>• Press the Power button to turn on the system.</li></ul>
	Low volume level	<ul style="list-style-type: none"><li>• Turn the Volume knob on the control panel to adjust the volume.</li></ul>
	System muted	<ul style="list-style-type: none"><li>• Press the Mute button on the steering wheel to unmute the system.</li></ul>
Sound is heard from only one speaker.	Unbalanced sound output	<ul style="list-style-type: none"><li>• On the Home screen, press <b>Settings ▶ Sound ▶ Position</b> and change the setting to adjust the sound balance.</li></ul>
Sound is cut off of a distorted noise is heard.	System vibration	<ul style="list-style-type: none"><li>• It is not a malfunction. If the system vibrates, the sound may be cut off or a distorted noise may occur.</li><li>• When the vibration stops, the system will operate normally.</li></ul>

Symptom	Possible cause	Solution
The image quality is deteriorated.	System vibration	<ul style="list-style-type: none"><li>• It is not a malfunction. If the system vibrates, the image may be distorted.</li><li>• When the vibration stops, the system will operate normally.</li></ul>
	Aged or deteriorated screen	<ul style="list-style-type: none"><li>• If the problem persists, contact your place of purchase or dealer.</li></ul>
Small red, blue, or green dots appear on the screen.		<ul style="list-style-type: none"><li>• Because the LCD is manufactured with technology requiring extremely high pixel density, pixel deficiency or constant lighting may occur within the permitted range of less than 0.01% of the total pixels.</li></ul>

## Troubleshooting

### ▪ USB playback

Symptom	Possible cause	Solution
The files on the USB storage device are not recognised.	File format not compatible	• Copy compatible media files to the USB device and reconnect the device.
	Poor connection	• Disconnect the USB storage device from the USB port and reconnect it correctly.
	Contaminated USB connectors	• Remove foreign substances from the USB connector of the storage device and the contact surface of the USB port.
	USB hub or extension cable used	• Connect the USB storage device directly to the USB port.
	Non-standard USB storage device used	• Use a USB storage device that is compatible with the system.
	Corrupt USB storage device	• Format the USB storage device on a PC and reconnect it. • Format the device in FAT16/32 format.

### ▪ Bluetooth connection

Symptom	Possible cause	Solution
The system is not detected on the Bluetooth device.	Pairing mode not activated	• On the Home screen, press <b>Settings ▶ Device connection ▶ Bluetooth ▶ Bluetooth connections ▶ Add New</b> to switch the system to the pairing mode. Then, try searching for the system again on the device.
The Bluetooth device is not connected to the system.	Bluetooth deactivated	• Activate Bluetooth on the device.
	Bluetooth error	• Deactivate Bluetooth and reactivate it on the device. Then, reconnect the device. • Turn the device off and on. Then, reconnect it. • Remove the battery from the device and reinstall it. Then, turn the device on and reconnect it. • Unregister the Bluetooth pairing on both the system and the device then re-register and connect them.

# Troubleshooting

## ▪ Phone projection

Symptom	Possible cause	
Phone projection does not start when a smartphone is connected via a USB cable.	Phone projection not supported by the phone	Visit the following websites and ensure that the smartphone supports the corresponding function. <ul style="list-style-type: none"><li>• Android Auto : <a href="https://support.google.com/androidauto">https://support.google.com/androidauto</a></li><li>• Apple CarPlay: <a href="https://apple.com/ios/carplay">https://apple.com/ios/carplay</a></li></ul>
	Phone projection disabled	<ul style="list-style-type: none"><li>• On the Home screen, press Settings ► Device connection, select a function you want to use, and activate it.</li><li>• Check if the function is disabled in the application settings or restriction settings on the smartphone.</li></ul>
	Smartphone not ready or malfunctioning	<ul style="list-style-type: none"><li>• Check if the smartphone's battery is low. If the battery is low, the smartphone may not be recognised.</li><li>• If the network signal is weak, phone projection may not work correctly.</li><li>• If the smartphone is locked, unlock it.</li><li>• Reset the smartphone and reconnect it.</li></ul>
When phone projection starts or is in use, a black screen is displayed.	Smartphone malfunctioning	<ul style="list-style-type: none"><li>• Disconnect the USB cable from the smartphone and reconnect the cable.</li><li>• Reset the smartphone and reconnect it.</li></ul>

## ▪ System operation

Symptom	Possible cause	Solution
The previously used media mode is not activated after the system turns off and back on.	poor connection or playback error	If the corresponding media storage device is not connected or has a problem in playback when you turn on the system, the mode you previously used will be activated. Reconnect the media storage device or restart playback.
The system is slow or it does not respond.	Internal system error	<ul style="list-style-type: none"><li>• Press and hold the Reset button with a suitable tool, such as a pen or a paperclip.</li><li>• If the problem persists, contact your place of purchase or dealer.</li></ul>
The system does not turn on.	Fuse shorted	<ul style="list-style-type: none"><li>• Visit a repair shop and replace with a suitable fuse.</li><li>• If the problem persists, contact your place of purchase or dealer.</li></ul>



# Product specifications

## ▪ Media player

### [Music files]

Item	Specifications
File format	PEG-1/2 Layer3, OGG (Vorbis),FLAC, WMA(Standard/Professional), WAV
Bit-rate and sampling frequency	<b>MP3</b> 8–320 kbps(CBR/VBR), up to 48 kHz (IDtagversion: Ver.1.0, Ver.1.1, Ver.2.2, Ver.2.3, Ver.2.4)
	<b>OGC</b> Q1 to Q10, up to 48 kHz
	<b>FLAC</b> 8/16/24 bit, up to 48 kHz
	<b>WMA</b> ● Standard (0x161): up to L3 Profile up to 385 kbps, up to 48 kHz
	<b>WAV</b> ● Professional (0x162): up to M0b, up to 192 kbps, up to 48 kHz  8/16 bit, up to 48 kHz
Specification details	Max. number of directory layers: 20 layers
	Max. folder/file name length: 255 Bytes
	Valid characters that can be used in a folder/file name: ● 2,350 Alphanumeric characters/4,888 Chinese characters
	Max. number of folders: 2,000 (including the root)
	Max. number of files: 8,000

### [Video files]

Item	Specifications
File format	AVI, MPEG, 3GP, WMV
Extension	avi, mpg, mpeg, mp4, 3gp, 3gpp, 3gpp2, wmv, asf
Resolution	1280 x 720
Video codec	MPEG-1/4, H264, WMV7-8
Audio codec	MP3, OGG, WMA
Subtitle	SMI

#### Note:

- The following files are not played.
  - Modified files (format-changed files)
  - Variant files (e.g. MP3 files encoded by the WMA audio codec)
  - DRM (Digital Rights Management)-protected files
  - Files with no index
- Sound quality is not guaranteed in case of music files that use the bit-rate exceeding 192 kbps.
- With the files that do not use the fixed bitrate, some functions may not work properly or the playback time may not appear accurately.
- When a trouble occurs while playing or you want to play an incompatible format file, use the latest encoder software to change the format before using the file.

# Product specifications

## ▪ Media player

### [USB storage devices]

Item	Specifications
Available Capacity	FAT32 : 32GB , NTFS : 256GB
Format system	FAT32, NTFS

**Note:**

- With the USB storage devices that are not equipped with a plug-type connector (metal cover type), proper operation is not guaranteed.
- USB storage devices with a plastic plug may not be recognized.
- USB memory cards (e.g. CF cards, SD cards) may not be recognized.



### Caution

- **Recommendation:** Should use USB of the following brands for the highest compatibility.

Product name	Manufacturer
XTICK	LG
BMK	BMK Technology
SKY-DRV	Sky Digital
TRANSCEND JetFlash	TranScend
Sandisk Cruzer	SanDisk
Micro ZyRUS	ZyRUS
NEXTIK	DIGI Works

**Note:**

- USB hard drives may not be recognized.
- When using a USB mass storage device divided into logical drives, only the files saved in the first drive can be played.
- When a USB storage device has some Apps, media files may not be played.

# Product specifications

## ▪ Common

Item	Specifications
Power supply	DC 14.4V
Operating voltage	DC 9 ~ 16 V
Dark current	Average current before 96 hours afterACC OFF: 10 mA or less After 96 hours afterACC OFF: 3 mA or less
Operating temperature range	- 20°to + 70°C
Storage temperature range	- 30°to + 80°C
Externals (W x H x L)	216.0 x 192.8 x 187.8 mm
Current consumption	10A(Volume Max)
Weight	1.76 kg

## ▪ Display

Item	Specifications
Screen size	AVbody - 8 inches (177.02 x 99.58 mm)
Number of pixels	AVbody - 921,600pixels (resolution: 1280 x 720)
Operating method	TFT (Thin-film transistor) active matrix method
Viewing angle	AVbody - Left / Right, Up / Down: 80°
Internal lighting	LED

# Product specifications

## ▪ Radio

Item	Specifications
Available channels	<ul style="list-style-type: none"><li>● <b>FM:</b> 87.50 ~ 108.00MHz (step: 100 kHz)</li><li>● <b>AM:</b> 531 ~ 1602 kHz (step: 9 kHz)</li></ul>
Sensitivity	<ul style="list-style-type: none"><li>● <b>FM:</b> 10 dBuV or less</li><li>● <b>AM:</b> 35 dBuVEMF or less</li></ul>
Distortion factor	Within 2 %

**Note:**

- Supported receiving channels may differ depending on vehicle type and specifications.

## ▪ Bluetooth

Item	Specifications
Frequency range	2,402 ~ 2,480 MHz
Supported Bluetooth version	Bluetooth 5.1 Class2
Supported profiles	A2DP, AVRCP, GAVDP, HFP, MAP, PBAP
Bluetooth Power Class 2	0 to 2 dBm
Antenna power output	2.3 dBi (max.)

## FCC Warning

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

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

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



### Caution

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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.

# Trademarks and Licenses

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## Bluetooth® Wireless Technology

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