

Bass Boost (if equipped)

Provides magnificent and dynamic sound by amplifying the bass.

Quantum Logic Surround (if equipped)

Provides the surround sound that can give spatial depth of field as on an actual stage.

Centerpoint® Surround Technology (if equipped)

Provides rich surround sound after converting the sound sources such as digital files and satellite radio to stereophonic sound.

Position

You can select a position where sound is more audible in the vehicle. By pressing the desired point on the seat image or pressing the arrow buttons, you can finely adjust the position. To concentrate the sound to the center of the vehicle, press .



Tone

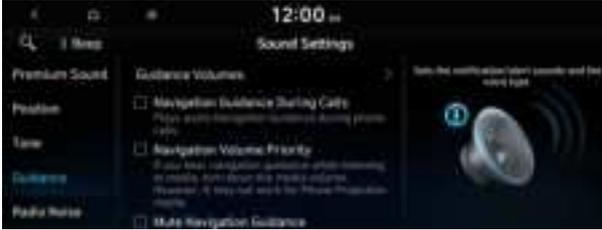
You can adjust the sound by adjusting the strengths (output levels) for each audio band: Bass, Midrange, and Treble.

 To reset all audio settings to the default values, press **Center**.



Guidance

Specify the system's guidance voice type, set a certain sound to override other sounds, and configure other guidance sound settings.



Guidance Volumes

You can adjust the volume levels for individual system features or initialize all volume settings.

 To initialize all system sound settings, press **Reset**.

Navigation Guidance During Calls

Even during a call, the navigation sound is heard.

Navigation Volume Priority

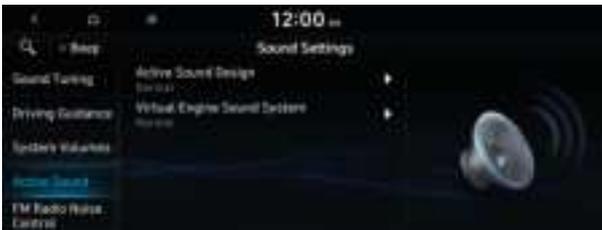
You can set to enable the navigation sound to be heard first when using both the navigation system and Radio/Media system.

Mute Navigation Guidance

Press the Mute button on the steering wheel when the navigation guidance is being output to set to mute the guidance volume for 10 seconds.

Active Sound (if equipped)

You can turn on the engine sound effect function which plays engine sound.



Active Sound Design

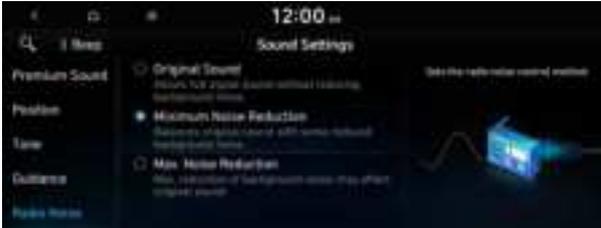
Adjust the interior engine sound volume.

Virtual Engine Sound System

Turn on or off the engine sound function which generates a virtual engine sound.

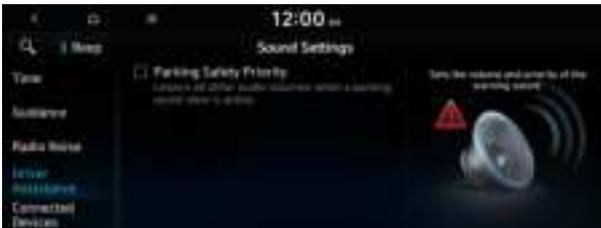
Radio Noise

You can customize sound quality when listening to FM radio by adjusting background noise of the original sound.



Driver Assistance (if equipped)

You can set to give priority to the proximity warning feature and lower all other sounds when parking your vehicle.

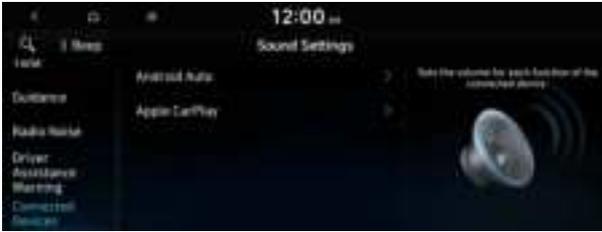


Parking Safety Priority

When warning sound is generated while parking, the audio volume decreases to make the sound audible.

Connected Devices (if equipped)

You can adjust the volume of the phone projection and initialize all volume settings.



Android Auto

Vary the volume of your Android smartphone, connected to the system, depending on the function.

🔗 To initialize all system sound settings of the phone projection, press **Reset**.

Apple CarPlay

Vary the volume of your iPhone, connected to the system, depending on the function.

🔗 To initialize all system sound settings of the phone projection, press **Reset**.

Turning on/off the screen touch sound

To turn on or off the touch sound on the screen, press **Beep** at the top of the screen.

Configuring the voice recognition settings (Type1)

You can change the settings for voice recognition.

1 On the All Menus screen, press **Setup ► Voice Recognition**.

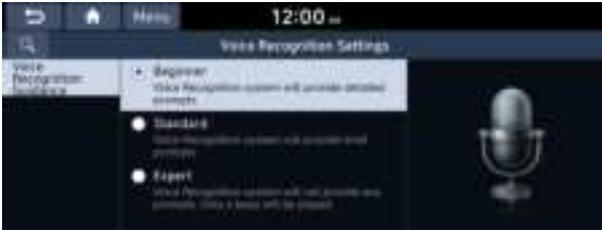
The voice recognition settings screen appears.

2 Configure the settings required:

🔗 Press **Menu ► Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.

Voice Recognition Guidance

You can set whether to hear the voice recognition guidance briefly or in detail. You can also turn off the voice guidance.



Configuring the voice recognition settings (Type2)

You can change the settings for voice recognition.

- 1 On the All Menus screen, press **Setup ► Voice Recognition**.

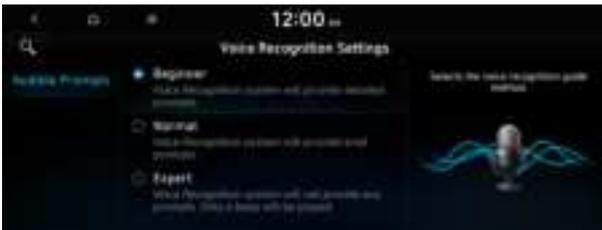
The voice recognition settings screen appears.

- 2 Configure the settings required:

✎ Press **☰ ► Search for Settings** or press **🔍** and enter a keyword to search for a setting item. You can also search for a setting item by voice.

Audible Prompts

You can set whether to hear the voice recognition guidance briefly or in detail. You can also turn off the voice guidance.



Configuring the navigation settings (Type1)

You can configure the navigation settings for navigation operations, screen display, voice guidance, etc. You can also export or import the location data.

✍ For details on how to use navigation functions, see the "Navigation" chapter. ▶ See "Navigation."

1 On the All Menus screen, press **Setup ▶ Navigation**.

The navigation settings screen appears.

2 Configure the settings required:

✍ Press **Menu ▶ Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.

Display

You can specify the information to display on the navigation map screen.



✍ The screen may differ depending on the vehicle model and specifications.

Map

You can specify the items to display on the map.

- **Map Font Size:** You can set the size of the screen font on the navigation map.
- **Map Color:** You can set the navigation map theme color.
- **Map Display:** You can specify the items to display on the map.
 - **Map View:** Set the navigation map display mode. To automatically rotate the map screen based on the driving direction, select **2D Heading Up**. To fix the top of the map screen to north, select **2D North Up**. If you select **3D Map**, the map screen is displayed in 3D mode and automatically rotates based on the driving direction.
 - **Display Traffic:** Displays nearby traffic information on the map.
 - **3D Buildings:** Displays major buildings on the map in three dimensions.
 - **Auto-scale:** Automatically changes the scale of the map.

- **POI Display:** You can specify the icon type to display nearby places on the map.
- ✍ Press  on the right side of Gas/LPG Station to select display options for fuel prices.
 - Gas and LPG stations on the Map screen will also show their fuel prices if they are lower than the set price.
 - Select **Display Fuel Price Info on Map** to view recommended fuel prices based on the prices offered in the area.
 - Fuel prices on the map may differ from actual ones.

Information

You can specify the information to display on the navigation map screen while driving.

- **Route Guide Line:** Change the route guide line color depending on the traffic conditions. To display the route guide line with a fixed color, uncheck **Show Traffic Colors on Route** and select a color.
- **Vehicle Symbol:** You can specify the icon type to display your current location on the map.
- **Units:** You can set the distance unit of the navigation map to **Kilometers (km)** or **Miles (mi)** (if equipped).
- **Show Vehicle Speed:** Displays the vehicle speed on the map.
- **Detailed Guidance View:** You can set to display detailed information on the Map screen, such as moving directions and lane change.
- **Speed Limits:** Sets whether or not to display the speed limits on the screen.

Map Auto-scale Settings

You can set the scales for each vehicle speed zone.

- ✍ For example, when "700 ft" is selected for the "21-40 mi/h" zone and "0.25 mi" for the "41-60 mi/h" zone, the map scale on the navigation screen becomes 700 ft when vehicle speed is 40 mi/h and 0.25 mi when vehicle speed is 41 mi/h.

Return to Map: Set Time

You can set the system to automatically display the map screen after a specified period of time when switched to the Radio/Media mode screen while using the navigation.

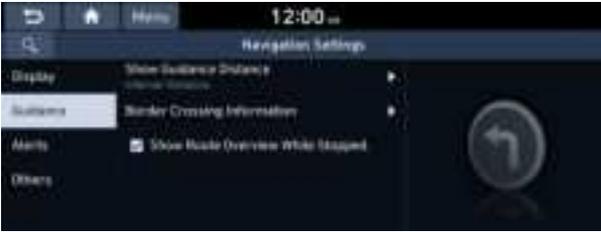
- ✍ This function works while driving once a destination has been set.
- ✍ This feature is not available on the phone projection screen.

Auto Re-center Map

You can set the system to automatically display the current position when the specified period of time elapses after changing to another position on the map.

Guidance

You can configure the navigation guidance settings.



 The screen may differ depending on the vehicle model and specifications.

Show Guidance Distance

You can configure settings for displaying the distance to the destination during guidance.

- **Interval Distance:** Displays the distance as the one between different zones.
- **Cumulative Distance:** Displays the distance as the one between the current position and target position.

Border Crossing Information

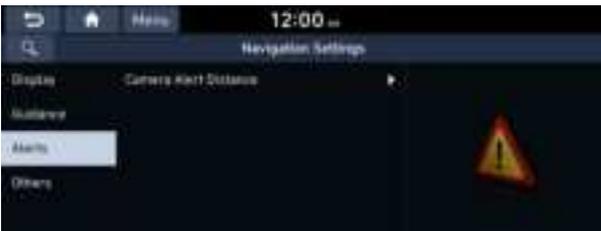
You can set whether or not to display the border crossing information on the screen.

Show Route Overview While Stopped.

You can set to display the route overview from the start point to the destination when the vehicle is stationary.

Alerts

You can set to activate drive assist features when needed for safety.



Warning

Be sure to check the road conditions while driving, because the camera information may get changed occasionally after a map update to the latest version. Relying solely on the driving assist system may cause violation of traffic rules and regulations, resulting in an accident.

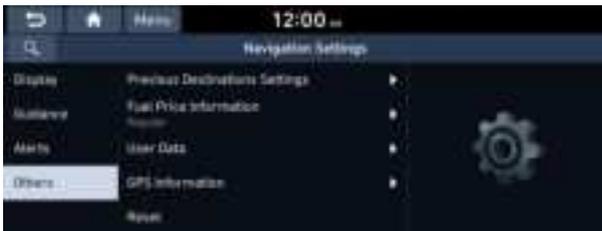
Camera Alert Distance

You can set when to receive alerts against and voice descriptions about traffic enforcement cameras.

- **Camera Alerts with Navigation Muted:** You can set traffic enforcement camera alerts or warning sounds for safe driving when the navigation is muted.
 - **None:** No guidance is provided when the navigation is muted.
 - **Use Beeps Only:** Guidance is provided only with warning sound.
 - **Use Voice Prompts with Beeps:** Guidance is provided with warning sound and voice.
- **Camera Alert Distance Depending on the Vehicle Speed:** The time when to get alerts for traffic enforcement cameras is automatically set depending on the driving speed. When the **Camera Alert Distance Depending on the Vehicle Speed** function is off, the time when to get guidance on traffic enforcement cameras on **Local Roads** and **Highway** can be selected.

Others

You can configure navigation options, e.g., turning on or off fuel prices, exporting or importing places from and to Address Book.



 The screen may differ depending on the vehicle model and specifications.

Previous Destinations Settings

You can set to automatically save the previous destination and display the previous destinations when the navigation system starts.

- **Save Previous Destinations:** The previous destination is automatically saved.
- **Show Previous Destinations after Navigation Start-up:** When the navigation system starts, the list of recent destinations appear on a pop-up window.

Fuel Price Information (if equipped)

When displaying gas stations or LPG charging stations on the map, the fuel prices below a specific range can be displayed.

- ✍ Select **Display Fuel Price Info on Map** to view recommended fuel prices based on the prices offered in the area.
- ✍ Fuel prices on the map may differ from actual ones.

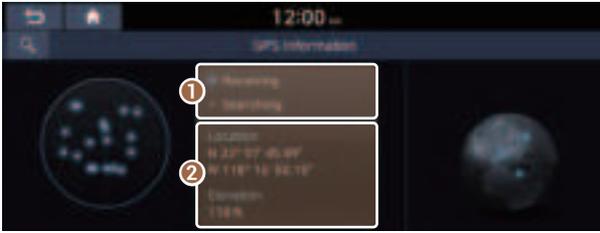
User Data

You can import location data from a USB device to the system, or export the data on the system to a USB device.

- ✍ When importing or exporting the location data, you can use only the USB device formatted in exFAT, FAT16/32, or NTFS.
- **Import Address Book/Previous Destinations from USB:** You can import registered location and destination information, saved on your USB storage device, to the system.
 - ✍ Previous information saved on the system will be deleted.
 - ✍ If location information is imported from a different navigation device or system, the locations may appear differently because the device/system uses a different coordinate system.
- **Export Address Book/Previous Destinations to USB:** You can export registered location and destination information, saved on the system, to your USB storage device.
 - ✍ Previous information saved on the USB storage device will be deleted.

GPS Information

You can see the GPS satellite status and coordinates of the current position.



The following information appears:

- 1 Can see the reception status of the satellite signals.
 - **Receiving:** Satellite signals are being received and the current position is recognized.
 - **Searching:** The system is scanning the satellite signals.
- 2 Can see the current location.

Reset

You can initialize all the settings of the navigation system.

Configuring the navigation settings (Type2)

You can configure the navigation settings for navigation operations, screen display, voice guidance, etc. You can also export or import the location data.

 For details on how to use navigation functions, see the "Navigation" chapter. ► See "Navigation."

- 1 On the All Menus screen, press **Setup ► Navigation**.

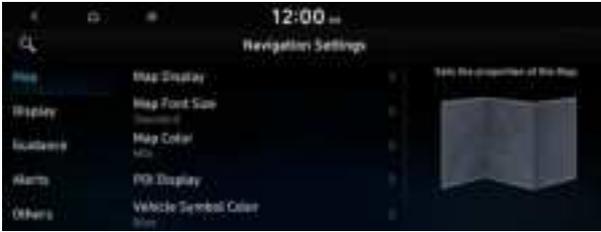
The navigation settings screen appears.

- 2 Configure the settings required:

 Press  ► **Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.

Map (if equipped)

You can specify the items to display on the map.



 The screen may differ depending on the vehicle model and specifications.

Map Display

You can specify the items to display on the map.

- **Map View:** Set the navigation map display mode. To automatically rotate the map screen based on the driving direction, select **2D Heading Up**. To fix the top of the map screen to north, select **2D North Up**. If you select **3D Map**, the map screen is displayed in 3D mode and automatically rotates based on the driving direction.
- **Display Traffic:** Displays nearby traffic information on the map. ※ Not Available for Mexico
- **3D Buildings:** Displays major buildings on the map in three dimensions.
- **Auto-scale:** Automatically changes the scale of the map.

Map Font Size

You can set the size of the screen font on the navigation map.

Map Color (if equipped)

You can set the navigation map theme color.

POI Display

You can specify the icon type to display nearby places on the map.

- Press  on the right side of Gas/LPG Station to select display options for fuel prices.
 - Gas and LPG stations on the Map screen will also show their fuel prices if they are lower than the set price.
 - Select **Display Fuel Price Info on Map** to view recommended fuel prices based on the prices offered in the area.
 - Fuel prices on the map may differ from actual ones.

Vehicle Symbol Color

You can specify the icon type to display your current location on the map.

Set Map Auto-scale

You can set the scales for each vehicle speed zone.

- ✍ For example, when "700 ft" is selected for the "21–40 mi/h" zone and "0.25 mi" for the "41–60 mi/h" zone, the map scale on the navigation screen becomes 700 ft when vehicle speed is 40 mi/h and 0.25 mi when vehicle speed is 41 mi/h.

Display

You can specify the information to display on the navigation map screen.



- ✍ The screen may differ depending on the vehicle model and specifications.

Information

You can specify the information to display on the navigation map screen while driving.

- **Show Traffic Colors:** Change the route guide line color depending on the traffic conditions. To display the route guide line with a fixed color, uncheck **Show Traffic Colors** and select a color.
- **Units:** You can set the distance unit of the navigation map to **Kilometers (km)** or **Miles (mi)** (if equipped).
- **Show Vehicle Speed:** Displays the vehicle speed on the map.
- **Detailed Guidance View:** You can set to display detailed information on the Map screen, such as moving directions and lane change.
- **Speed Limits:** Sets whether or not to display the speed limits on the screen.

Return to Map: Timing

You can set the system to automatically display the map screen after a specified period of time when switched to the Radio/Media mode screen while using the navigation.

- ✍ This function works while driving once a destination has been set.
- ✍ This feature is not available on the phone projection screen.

Fuel Price Information (if equipped) ※ Not Available for Mexico

When displaying gas stations or LPG charging stations on the map, the fuel prices below a specific range can be displayed.

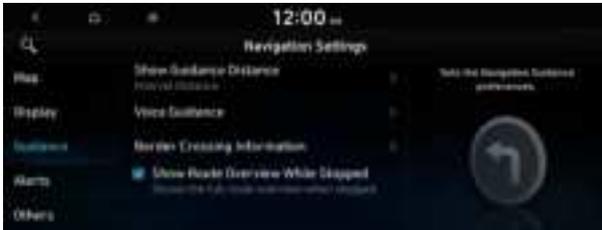
- ✎ Select **Display Fuel Price Info on Map** to view recommended fuel prices based on the prices offered in the area.
- ✎ Fuel prices on the map may differ from actual ones.

Auto Re-center Map

You can set the system to automatically display the current position when the specified period of time elapses after changing to another position on the map.

Guidance

You can configure the navigation guidance settings.



- ✎ The screen may differ depending on the vehicle model and specifications.

Show Guidance Distance

You can configure settings for displaying the distance to the destination during guidance.

- **Interval Distance:** Displays the distance as the one between different zones.
- **Cumulative Distance:** Displays the distance as the one between the current position and target position.

Voice Guidance

You can configure the navigation voice guidance feature.

- **Mute voice navigation nearby Destination:** If the set destination is a registered location, voice guidance is turned off when the vehicle gets closer to the destination.

Border Crossing Information

You can set whether or not to display the border crossing information on the screen.

Show Route Overview While Stopped

You can set to display the route overview from the start point to the destination when the vehicle is stationary.

Alerts ✖ Not Available for Mexico

You can set to activate drive assist features when needed for safety.



 The screen may differ depending on the vehicle model and specifications.

Warning

Be sure to check the road conditions while driving, because the camera information may get changed occasionally after a map update to the latest version. Relying solely on the driving assist system may cause violation of traffic rules and regulations, resulting in an accident.

Camera Alert Distance

You can set when to receive alerts against and voice descriptions about traffic enforcement cameras.

- **Camera Alert Distance Depending on the Speed Limit:** The time when to get alerts for traffic enforcement cameras is automatically set depending on the driving speed. When the **Camera Alert Distance Depending on the Speed Limit** function is off, the time when to get guidance on traffic enforcement cameras on **Local Roads** and **Freeway** can be selected.

Others

You can configure navigation options, e.g., turning on or off fuel prices, exporting or importing places from and to Address Book.



✎ The screen may differ depending on the vehicle model and specifications.

Previous Destinations Settings

You can set to automatically save the previous destination and display the previous destinations when the navigation system starts.

- **Save Previous Destinations:** The previous destination is automatically saved.
- **Show Previous Destinations after Navigation Start-up:** When the navigation system starts, the list of recent destinations appear on a pop-up window.
- **Auto. Destination Recommendation:** You can set to analyze your departure places and times and to automatically suggest destinations that are set periodically. When you are driving without setting a destination and you are within the recommended time or range, your home or office registered as a favorite is recommended as the destination.

✎ To use this feature, your home or office must have been registered as a favorite. In Go Home or Office under **Navigation Menu ► Saved Places ► Favorites**, register the location information.

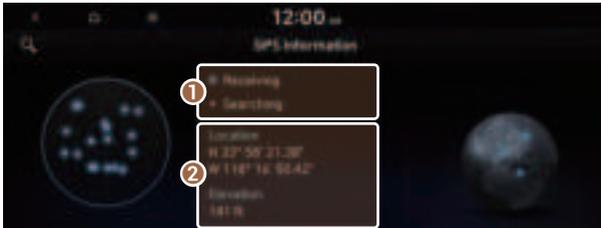
User Data

You can import location data from a USB device to the system, or export the data on the system to a USB device.

- ✍ When importing or exporting the location data, you can use only the USB device formatted in exFAT, FAT16/32, or NTFS.
- **Import Saved Places/Previous Destinations from USB Device:** You can import registered location and destination information, saved on your USB storage device, to the system.
 - ✍ Previous information saved on the system will be deleted.
 - ✍ If location information is imported from a different navigation device or system, the locations may appear differently because the device/system uses a different coordinate system.
- **Export Saved Places/Previous Destinations to USB Device:** You can export registered location and destination information, saved on the system, to your USB storage device.
 - ✍ Previous information saved on the USB storage device will be deleted.

GPS Information

You can see the GPS satellite status and coordinates of the current position.



✍ The screen may differ depending on the vehicle model and specifications.

The following information appears:

- ① Can see the reception status of the satellite signals.
 - **Receiving:** Satellite signals are being received and the current position is recognized.
 - **Searching:** The system is scanning the satellite signals.
- ② Can see the current location.

Configuring the Bluelink settings (Type1)

You can subscribe to the Blue Link service or see the modem information.

- 1 On the All Menus screen, press **Setup ► Blue Link**.

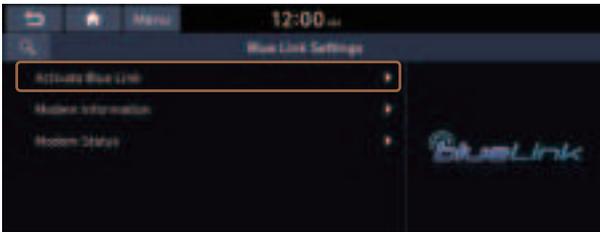
The Blue Link settings screen appears.

- 2 Configure the settings required:

✍ Press **Menu ► Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.

Activate Blue Link

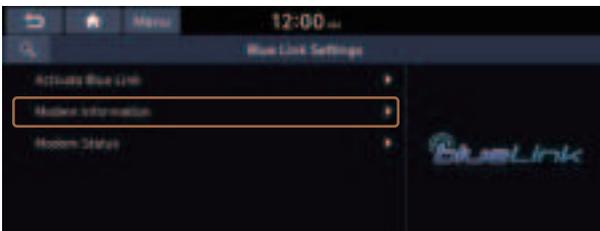
You can subscribe to the Blue Link service by using the Blue Link settings menu.



✍ For more information: ► see "Subscribing to the service."

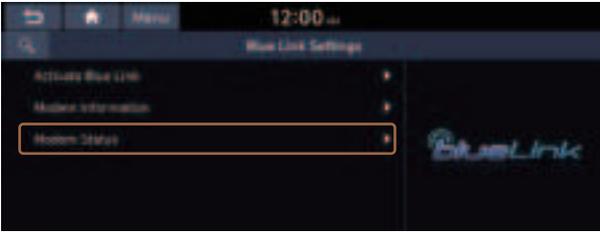
Modem Information

You can check the modem information for use of the Blue Link service.



Modem Status

You can check the modem status for use of the Blue Link service.



Configuring the Bluelink settings (Type2)

You can subscribe to the Bluelink service or see the modem information.

- 1 On the All Menus screen, press **Setup ► Bluelink**.

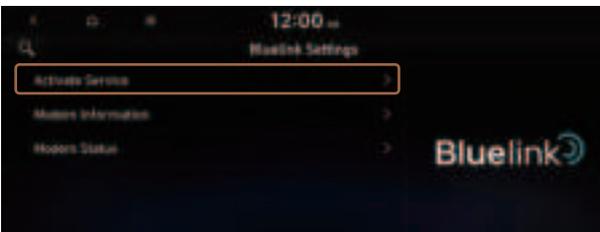
The Bluelink settings screen appears.

- 2 Configure the settings required:

✎ Press **☰ ► Search for Settings** or press **🔍** and enter a keyword to search for a setting item. You can also search for a setting item by voice.

Activate Service

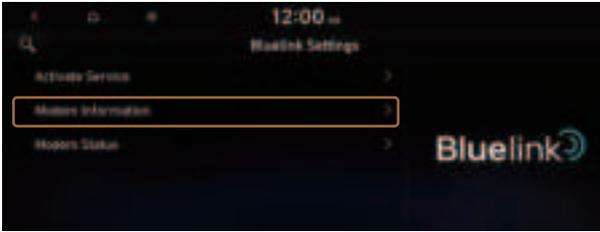
You can subscribe to the Bluelink service by using the Bluelink settings menu.



✎ For more information: ► see "Subscribing to the service."

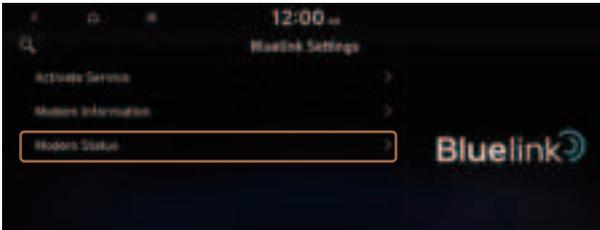
Modem Information

You can check the modem information for use of the Bluelink service.



Modem Status

You can check the modem status for use of the Bluelink service.



Configuring the user profile settings (Type1) (if equipped)

You can additionally set profiles for each driver after First Run Setup.

1 On the All Menus screen, press **Setup ► User Profile**.

2 Press the user to change its profile.

The User Profile Settings screen appears.

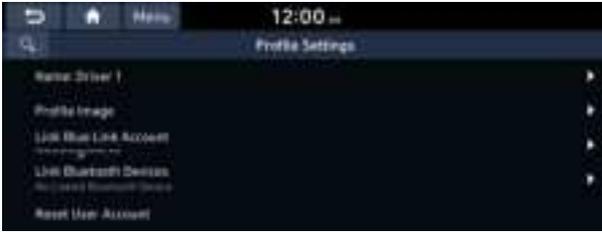
✍ Press **Menu ► Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.

✍ Press **Change User** to switch to another user's profile.

✍ When you log in as guest, you cannot set the profile items additionally. To set a different profile, select another user.

Profile Settings

You can specify the details and operation environment for a registered user.



Name

You can specify the name of the user to display on the profile.

Profile Image

You can specify the image to display on the user profile.

Link Blue Link Account

You can use various services and convenient management features when linked to the registered Blue Link service.

 Subscribe to Blue Link to check the function. ▶ See "[Subscribing to the service.](#)"

Link Bluetooth Devices

You can connect any registered Bluetooth device. ▶ See "[Connecting a Bluetooth device.](#)"

Reset User Account

You can initialize all account settings.

Configuring the user profile settings (Type2)

You can additionally set profiles for each driver after First Run Setup.

1 On the All Menus screen, press **Setup ► User Profile**.

2 Press the user to change its profile.

The User Profile Settings screen appears.

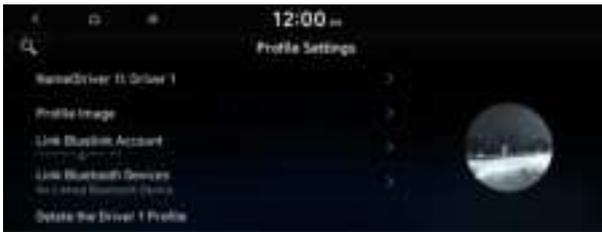
✍ Press **☰ ► Search for Settings** or press **🔍** and enter a keyword to search for a setting item. You can also search for a setting item by voice.

✍ Press **Change User** to switch to another user's profile.

✍ When you log in as guest, you cannot set the profile items additionally. To set a different profile, select another user.

Profile Settings

You can specify the details and operation environment for a registered user.



Name

You can specify the name of the user to display on the profile.

Profile Image

You can specify the image to display on the user profile.

Link Bluetooth Account

You can use various services and convenient management features when linked to the registered Bluetooth service.

✍ Subscribe to Bluetooth to check the function. ► See "Subscribing to the service."

Link Bluetooth Devices

You can connect any registered Bluetooth device. ► See "Connecting a Bluetooth device."

Delete Profile (if equipped)

All stored data and profile settings will be lost and the system will be reset.

Configuring the general system settings (Type1)

You can configure general settings for date, time, language, and the like. You can also check information of the system.

1 On the All Menus screen, press **Setup** ► **General**.

The general settings screen appears.

2 Configure the settings required:

✎ Press **Menu** ► **Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.

SW Info/Update

You can see the versions of system components. You can also update the system to the latest version.



✎ For details on how to update the system software: ► see "How to Update the Map and Software for your Infotainment System."

System Info

You can check the system storage space. You can also use your smartphone to access the online user's manual of the system, or initialize all system settings to default values.



Storage

You can check the storage space of the system memory where voice memos can be saved.

User's Manual on Web (QR Code)

You can access the online user's manual of the system by scanning the QR code with your smartphone.

Reset

You can initialize all system settings including general settings and navigation settings.

 You can also initialize all settings of the login profile.

Caution

- When initialization is performed, all user data in the system including the location data is deleted.
- When phone projection is active, you cannot reset the system settings. To reset the settings, remove the USB cable from your system.

My Data

You can import location data from a USB device to the system, or export the data on the system to a USB device.

- ✎ When importing or exporting the location data, you can use only the USB device formatted in exFAT, FAT16/32, or NTFS.
- ✎ The screen may differ depending on the vehicle model and specifications.



Import Address Book/Previous Destinations from USB

You can import registered location and destination information, saved on your USB storage device, to the system.

- ✎ The previous location data on the system is to be deleted.
- ✎ While importing from a navigation system that uses a different coordinate system, the locations may appear differently.

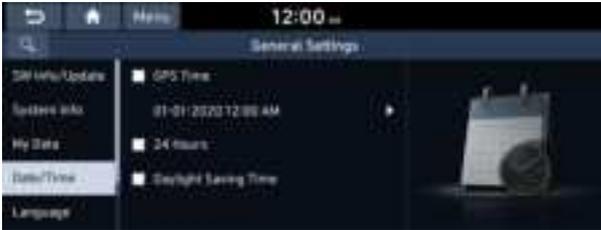
Export Address Book/Previous Destinations to USB

You can export registered location and destination information, saved on the system, to your USB storage device.

- ✎ Previous information saved on the USB storage device will be deleted.

Date/Time

You can set the system date and time automatically or manually. You can also set the time display mode.



✎ The screen may differ depending on the vehicle model and specifications.

GPS Time

After receiving the time from GPS, it sets the system date and time automatically.

✎ To manually set the date and time, uncheck **GPS Time**, press the current date and time below **GPS Time**, and then set the date and time.

24 Hours

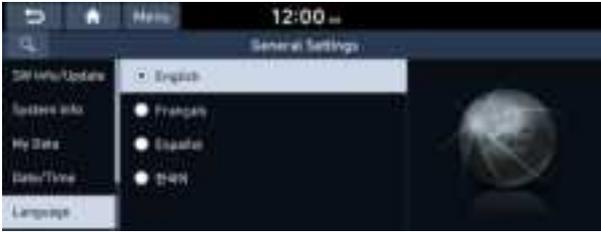
The system time is displayed in the 24-hour format.

Daylight Saving Time

Displays the system time in the format of Daylight Saving Time.

Language

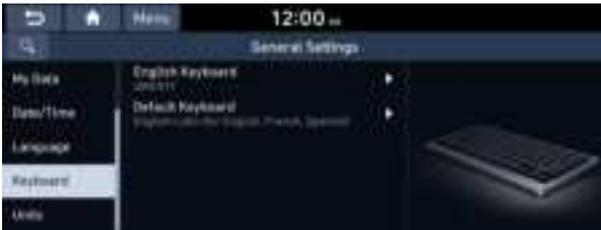
You can set the system display language.



- ✍ The screen may differ depending on the vehicle model and specifications.
- ✍ Once the language has been changed, it takes a while to apply the new language to the system. The notification pop-up window appears as soon as the new language is applied to the system. When you wait a while or press anywhere outside the pop-up window, the window automatically disappears.
- ✍ When you change the system language, it does not affect the display of other unique data such as MP3 music file name.
- ✍ Depending on the system language, the Bluetooth phone message view and voice recognition may not be supported.

Keyboard

You can change the keyboard type for each language to use when entering the text.



- ✍ The screen may differ depending on the vehicle model and specifications.

English Keyboard

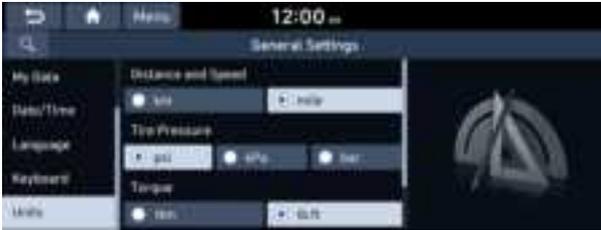
You can select the keyboard type to use when entering the English text.

Default Keyboard

You can select the default keyboard type.

Units (if equipped)

You can specify the units to display on the system screen.



Distance and Speed

You can select the units for distance and vehicle speed to display on the screen.

Temperature

You can select the temperature unit to display on the screen.

Fuel Efficiency

You can select the unit for fuel economy to display on the screen.

Tire Pressure

You can select the unit for tire pressure to display on the screen.

Torque (if equipped)

You can select a torque unit to display on the system screen.

Turbo Boost (if equipped)

You can select a turbo boost unit to display on the system screen.

Configuring the general system settings (Type2)

You can configure general settings for date, time, language, and the like. You can also check information of the system.

- 1 On the All Menus screen, press **Setup ▶ General**.

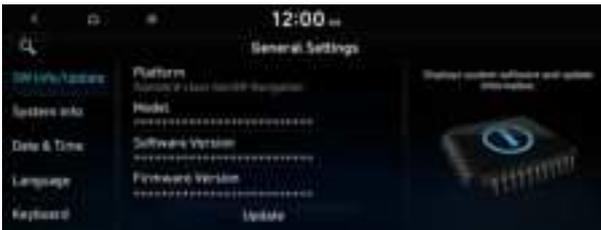
The general settings screen appears.

- 2 Configure the settings required:

✎ Press **☰ ▶ Search for Settings** or press **🔍** and enter a keyword to search for a setting item. You can also search for a setting item by voice.

SW Info/Update

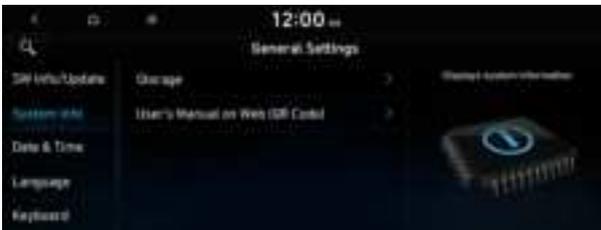
You can see the versions of system components. You can also update the system to the latest version.



✎ For details on how to update the system software: ▶ see "How to Update the Map and Software for your Infotainment System."

System Info

You can check the system storage space. You can also use your smartphone to access the online user's manual of the system.



Storage

You can check the storage space of the system memory where voice memos can be saved.

User's Manual on Web (QR Code)

You can access the online user's manual of the system by scanning the QR code with your smartphone.

What's New (if equipped)

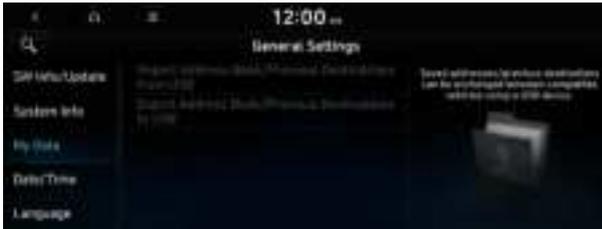
You can see the latest system update information.

- ✍ After update is completed, the system will display the main update items on the screen. Scan the QR code to view the update announcement.

My Data (if equipped)

You can import location data from a USB device to the system, or export the data on the system to a USB device.

- ✍ When importing or exporting the location data, you can use only the USB device formatted in exFAT, FAT16/32, or NTFS.



Import Address Book/Previous Destinations from USB

You can import registered location and destination information, saved on your USB storage device, to the system.

- ✍ Previous information saved on the system will be deleted.
- ✍ While importing from a navigation system that uses a different coordinate system, the locations may appear differently.

Export Address Book/Previous Destinations to USB

You can export registered location and destination information, saved on the system, to your USB storage device.

 Previous information saved on the USB storage device will be deleted.

Date & Time

You can set the system date and time automatically or manually. You can also set the time display mode.



GPS Time

After receiving the time from GPS, it sets the system date and time automatically.

 To manually set the date and time, uncheck **GPS Time**, press the current date and time below **GPS Time**, and then set the date and time.

Time Format

Change the system time display format.

Daylight Saving Time

Displays the system time in the format of Daylight Saving Time.

Language

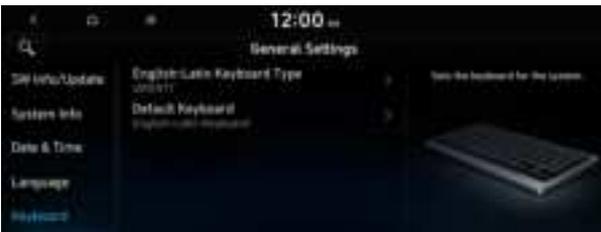
You can set the system display language.



- Once the language has been changed, it takes a while to apply the new language to the system. The notification pop-up window appears as soon as the new language is applied to the system. When you wait a while or press anywhere outside the pop-up window, the window automatically disappears.
- When you change the system language, it does not affect the display of other unique data such as MP3 music file name.
- Depending on the system language, the Bluetooth phone message view and voice recognition may not be supported.

Keyboard

You can change the keyboard type for each language to use when entering the text.



English-Latin Keyboard Type

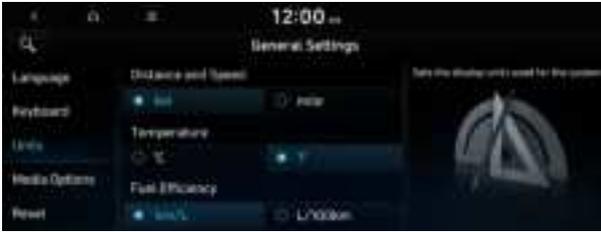
You can select the keyboard type to use when entering the English text.

Default Keyboard

You can select the default keyboard type.

Units (if equipped)

You can specify the units to display on the system screen.



Distance and Speed

You can select the units for distance and vehicle speed to display on the screen.

Temperature

You can select the temperature unit to display on the screen.

Fuel Efficiency or Energy Economy

You can select the unit for fuel (energy) economy to display on the screen.

 The displayed name may differ depending on the vehicle model and specifications.

Tire Pressure

You can select the unit for tire pressure to display on the screen.

Torque (if equipped)

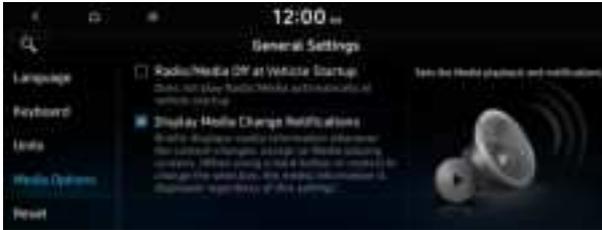
You can select a torque unit to display on the system screen.

Turbo Boost (if equipped)

You can select a turbo boost unit to display on the system screen.

Media Options (if equipped)

You can set the media player not to start automatically when starting the engine or set it to notify you of any information changes during media playback.



✎ The screen may differ depending on the vehicle model and specifications.

Radio/Media Off at Vehicle Startup

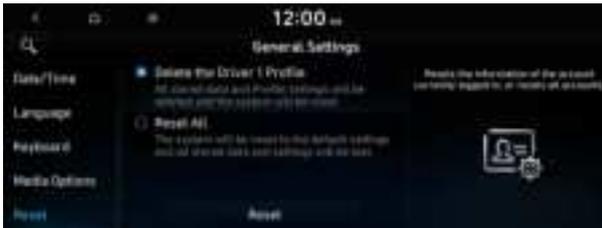
You can set the media player not to start automatically when starting the engine.

Display Media Change Notifications (if equipped)

You can set the system to briefly display media information at the top of the screen if the current song or channel changes when not on the main media screen.

Reset

You can reset your system settings to the default values.



✎ You can also initialize all settings of the login profile.

⚠ Caution

- When initialization is performed, all user data in the system including the location data is deleted.
- When phone projection is active, you cannot reset the system settings. To reset the settings, remove the USB cable from your system.

Configuring the screen theme/layout settings (Type2) (if equipped)

You can configure the settings for the display and themes.

✎ Available settings may differ depending on the vehicle model and specifications.

1 On the All Menus screen, press **Setup ► Screen Layout**.

The theme/layout settings screen appears.

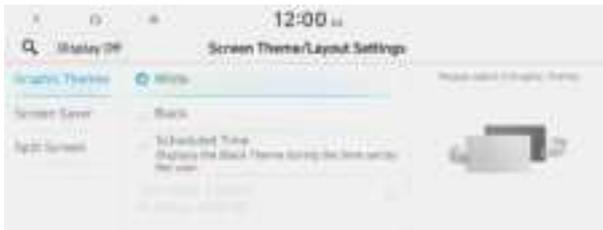
2 Configure the settings required:

✎ Press **☰ ► Search for Settings** or press **🔍** and enter a keyword to search for a setting item. You can also search for a setting item by voice.

✎ If you press **Display Off** at the top of the screen, the screen is switched off. To switch the screen back on, press the screen or briefly press the power button.

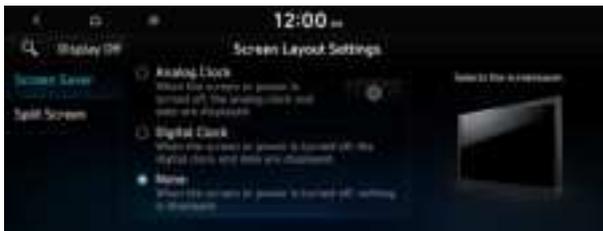
Graphic Themes (if equipped)

Select the desired display theme.



Screen Saver

You can select the items to display on the screen saver in standby mode.



Analog Clock

Displays the analog clock on the system screen saver.

✎ Press  to choose the Analog Clock to show on the screen.

Digital Clock

Displays the digital clock on the system screen saver.

None

Displays nothing on the system screen saver.

Split Screen

You can specify the items to display on the Split Screen.



- ✎ The screen may differ depending on the vehicle model and specifications
- ✎ This option is only available when the display supports Split Screen.
- ✎ On the screen list, press  on the right and drag the item to reposition.

Configuring the display settings (Type1)

You can change the system display settings such as display brightness.

1 On the All Menus screen, press **Setup ► Display**.

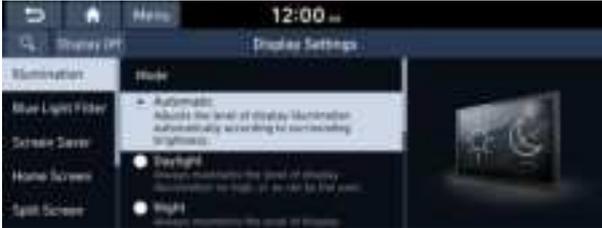
The display settings screen appears.

2 Configure the settings required:

- ✎ Press **Menu ► Search for Settings** or press  and enter a keyword to search for a setting item. You can also search for a setting item by voice.
- ✎ If you press **Display Off** at the top of the screen, the screen is switched off. To switch the screen back on, press the screen or briefly press the power button.

Illumination

You can set the system to automatically adjust the display brightness depending on the ambient light intensity. You can also set the system to keep the display bright or dark all the time. You can set to automatically adjust the display brightness depending on the cluster illumination. You can also set the level of display brightness to use while using the daytime or night mode.



Mode

- **Automatic:** The display brightness is automatically adjusted based on the surrounding environment.
- **Daylight:** It keeps the display always bright regardless of the surrounding environment.
- **Night:** It keeps the display always dark regardless of the surrounding environment.

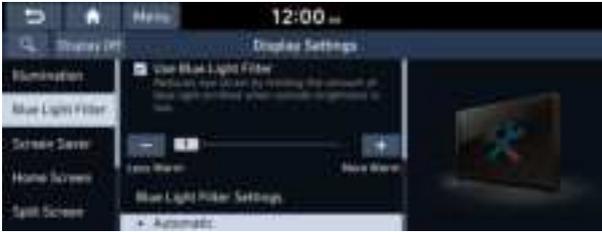
Illumination

- **Link to Cluster Illumination Control:** The display brightness is automatically adjusted based on the cluster illumination.
- **Daylight:** You can set the display brightness when **Daylight** is selected under **Mode**. Uncheck **Link to Cluster Illumination Control** and then set to the desired brightness.
- **Night:** You can set the display brightness when **Night** is selected under **Mode**. Uncheck **Link to Cluster Illumination Control** and then set to the desired brightness.

 To reset all screen brightness settings to the default values, press **Reset**.

Blue Light Filter

Enable blue light filtering to adjust the screen light to reduce the level of eye strain.



Use Blue Light Filter

Enable or disable blue light filtering.

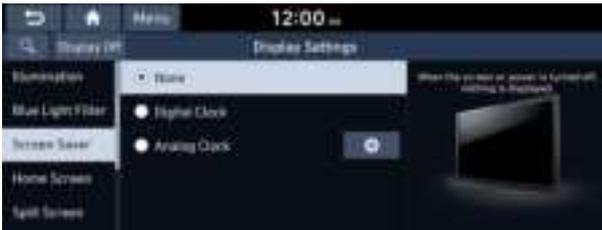
Blue Light Filter Settings

Set to activate blue light filtering automatically based on the ambient light or pick the time range manually.

- **Automatic:** Enable blue light filtering based on the ambient light.
- **Scheduled Time:** Enable blue light filtering during the set time range.

Screen Saver

You can select the items to display on the screen saver in standby mode.



 The screen may differ depending on the vehicle model and specifications.

None

Displays nothing on the system screen saver.

Digital Clock

Displays the digital clock on the system screen saver.

Analog Clock

Displays the analog clock on the system screen saver.

✎ Press  to choose the Analog Clock to show on the screen.

Home Screen

You can change the layout of the Home screen.



✎ The screen may differ depending on the vehicle model and specifications.

Edit Home Widgets

You can edit the types and arrangement of home widgets.

✎ For more information: ► see "Editing widgets on the Home screen (Type1)."

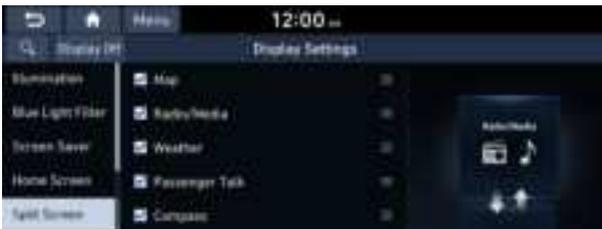
Edit Home Icons

You can edit the arrangement of home icons.

✎ For more information: ► see "Editing icons on the Home screen (Type1)."

Split Screen

You can specify the items to display on the Split Screen.



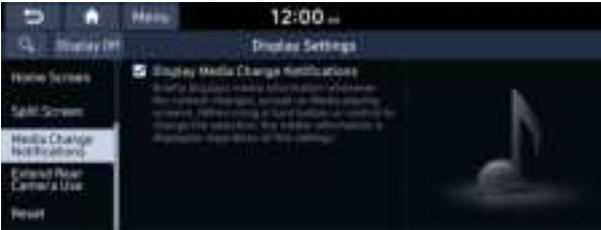
✎ The screen may differ depending on the vehicle model and specifications.

✎ This option is only available when the display supports Split Screen.

✎ On the screen list, press  on the right and drag the item to reposition.

Media Change Notifications

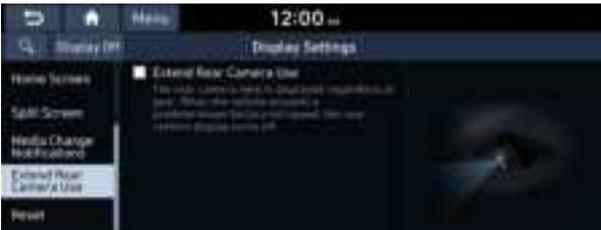
You can set to briefly display media information at the top of screen while playing the next item when you move from the media player screen to another.



Extend Rear Camera Use

You can set to display the rear camera display even when you change the shift position other than "R" (Reverse) after reversing.

✍ When you shift to "P" (Park) or drive at a predetermined speed or faster, the rear view display disappears to display the previous screen.



Reset

You can initialize all display settings such as brightness.



Configuring the display settings (Type2)

You can change the system display settings such as display brightness.

- 1 On the All Menus screen, press **Setup ► Display**.

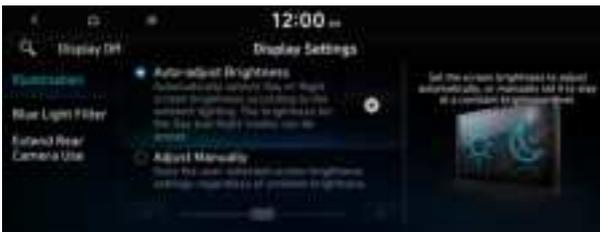
The display settings screen appears.

- 2 Configure the settings required:

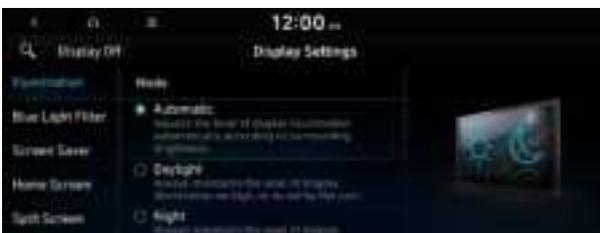
- ✎ Press **≡ ► Search for Settings** or press **🔍** and enter a keyword to search for a setting item. You can also search for a setting item by voice.
- ✎ If you press **Display Off** at the top of the screen, the screen is switched off. To switch the screen back on, press the screen or briefly press the power button.

Illumination

You can set the system brightness to be adjusted according to the ambient lighting conditions or set the screen to stay bright or dimmed. You can also set to automatically adjust the display brightness depending on the cluster illumination.



Option A



Option B

- ✎ The screen may differ depending on the vehicle model and specifications.

Auto-adjust Brightness (if equipped)

You can set the system brightness to be adjusted according to the ambient lighting conditions. Press  to set the brightness for the day or night mode.

Adjust Manually (if equipped)

You can set the screen to stay bright or dimmed.

Mode (if equipped)

- **Automatic:** The display brightness is automatically adjusted based on the surrounding environment.
- **Daylight:** The display brightness is adjusted to ensure that items are easier to see when the surrounding area is bright.
- **Night:** The brightness is adjusted to prevent glare when the surrounding area is dark.

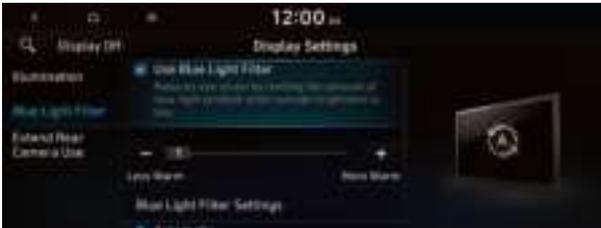
Illumination (if equipped)

- **Link to Cluster Illumination Control:** The display brightness is automatically adjusted based on the cluster illumination.
- **Daylight:** You can set the display brightness when **Daylight** is selected under **Mode**. Uncheck **Link to Cluster Illumination Control** and then set to the desired brightness.
- **Night:** You can set the display brightness when **Night** is selected under **Mode**. Uncheck **Link to Cluster Illumination Control** and then set to the desired brightness.

 To reset all screen brightness settings to the default values, press **Reset**.

Blue Light Filter

Enable blue light filtering to adjust the screen light to reduce the level of eye strain.



Use Blue Light Filter

Enable or disable blue light filtering.

Blue Light Filter Settings

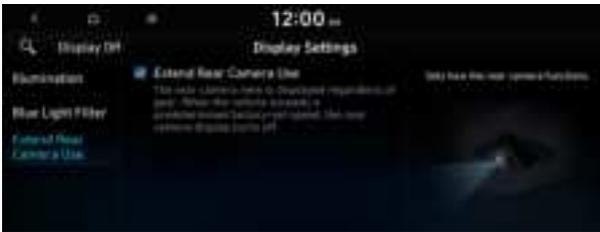
Set to activate blue light filtering automatically based on the ambient light or pick the time range manually.

- **Automatic:** Enable blue light filtering based on the ambient light.
- **Scheduled Time:** Enable blue light filtering during the set time range.

Extend Rear Camera Use (if equipped)

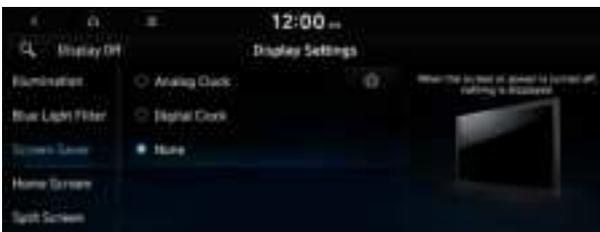
You can set to display the rear camera display even when you change the shift position other than "R" (Reverse) after reversing.

✎ When you shift to "P" (Park) or drive at a predetermined speed or faster, the rear view screen disappears to display the previous screen.



Screen Saver (if equipped)

You can select the items to display on the screen saver in standby mode.



Analog Clock

Displays the analog clock on the system screen saver.

✎ Press  to choose the Analog Clock to show on the screen.

Digital Clock

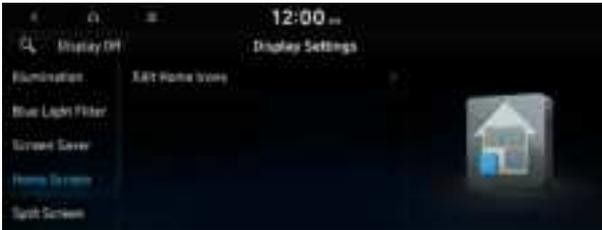
Displays the digital clock on the system screen saver.

None

Displays nothing on the system screen saver.

Home Screen (if equipped)

You can rearrange the icons displayed on the All screen.



Edit Home Icons

You can edit the arrangement of home icons.

✎ For more information: ► [see "Editing the icons on the Home screen \(Type2\)."](#)

Split Screen (if equipped)

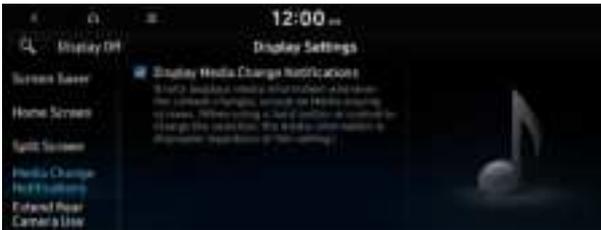
You can specify the items to display on the Split Screen.



- ✎ The screen may differ depending on the vehicle model and specifications.
- ✎ This option is only available when the display supports Split Screen.
- ✎ On the screen list, press  on the right and drag the item to reposition.

Media Change Notifications (if equipped)

You can set to briefly display media information at the top of screen while playing the next item when you move from the media player screen to another.



Configuring the media settings (Type1)

(if equipped)

Set to receive a notification when the information changes during playback or to include sub-folders when playing a folder on repeat.

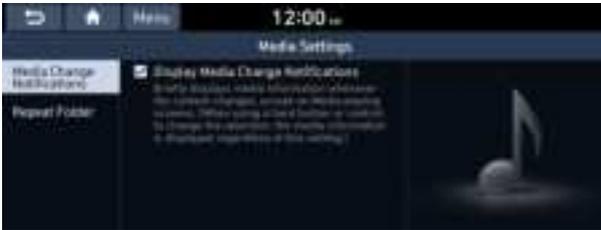
1 On the All Menus screen, press **Setup ► Media**.

The media settings screen appears.

2 Configure the settings required:

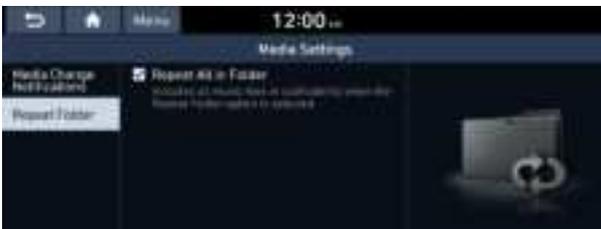
Media Change Notifications

You can set to briefly display media information at the top of screen while playing the next item when you move from the media player screen to another.



Repeat Folder

You can set to include sub-folders when playing a folder on repeat.



How to Update the Map and Software for your Infotainment System

To ensure you are maximizing the full potential of your navigation system, we advise updating the map and software annually. To update, visit the map update website and install the Navigation Updater program onto your PC. Use the program to download and install the latest map, points of interest, and software. Alternatively, you can visit your local dealership to update.



Caution

- It may take a while (tens of minutes) to finish the system update depending on the amount of data.
 - Never turn off the system or remove the storage before finishing the system update. When the system is turned off or the storage device is removed from the system while updating, it may cause data or system damage.
-  After update is completed, the system automatically restarts and the SW Info/Update screen displays the updated version.
-  During update, you cannot use the navigation system, Bluelink service, camera, and infotainment system.
-  For assistance concerning the update, contact the Customer Center at 800-633-5151.
-  Changes are not applied to the map after creation of all update files. For this reason, road names, POI names, speed limits, or other map information displayed, may not be the latest values due to the creation time of the update files.

Updating via a USB device

Install the Navigation Updater on your PC and then download the latest data to a USB device for update to the navigation map and infotainment system.

Installing Navigation Updater

On your PC, visit the website at <http://update.hyundai.com/us> to download and install the Navigation Updater software.

-  For system requirements for installing the program and details on how to install it, visit the website.

Updating the software and map

- 1 Connect a USB device to the computer and run Navigation Updater for downloading the update files.
- 2 Follow the instructions on the screen to download the update files.
- 3 Remove the USB device from the computer and then connect it to the USB port in your vehicle.
- 4 Start the vehicle to turn on the system.

 You can perform update without starting the vehicle by simply locating the start switch to "ON".



Caution

- Perform update with the start switch "ON" when the battery is sufficiently charged by driving the vehicle. When the battery is discharged while updating, the system may get damaged with the update stopped.
 - Note that the battery may be discharged easily in winter.
 - The battery may also be discharged easily when the vehicle is not used for a long time. Caution is required.
- When you start the vehicle while updating with the start switch "ON", power supply to the system may be cut off.

- 5 On the All Menu screen, press **Setup ► General ► SW Info/Update**.

 After the system is turned on, press **Yes** when a pop-up window appears whether to proceed with update. In this case, the screen changes to allow you to select the update method.

Updating immediately

You can finish the update quickly.

- 1 On the **SW Info/Update** screen, press **Update**.
- 2 Press **Update Now**.
- 3 Press **OK**.

The update is performed immediately after the system reboots.

Background Update

You can perform update while using the system.

- 1 On the **SW Info/Update** screen, press **Update**.
- 2 Press **Background Update**.
- 3 Press **OK**.

✍ Compared to Update Now, it may take longer.

✍ On the All Menus screen, press **Setup ► General ► SW Info/Update** to see the update progress.

✍ It is possible to start background updates only when the vehicle is on.

✍ It is possible to continue to perform updates even after turning off the vehicle while updates are in progress. On the notification window displayed when the vehicle is turned off, press **Update** to perform the remaining updates to complete the process successfully. For later update, press **Later**.

✍ If the update process is not completed, a notification window appears asking if you want to perform updates each time you turn off the vehicle.

✍ All system functions, including the rear view camera, are disabled while updates are in progress.

Scheduling an update

When you set for scheduled update after downloading the latest data, the navigation map and infotainment system can be updated while not using the vehicle.

- 1 On the **SW Info/Update** screen, press **Update**.
- 2 Press **Install after Turning Off the Ignition**.
- 3 Set the update time and press **OK**.

When scheduling the update is finished, the status indicator icon appears.

✍ You can set to start the update within 12 hours or less after the vehicle is stopped.

- 4 Turn off the vehicle (ACC Off).

- ✎ Make sure that a USB device with update files is connected to the system before turning off the vehicle.
- ✎ When you set the update time to "0", the update notification window appears and then the update starts.
 - To close the notification window and proceed with the update, press **Yes**.
 - To cancel the update, press **No**.
- ✎ Once the update has started, you cannot cancel it. After the update, the system automatically turns off.
- ✎ When you start the vehicle, the update complete notification appears to show the update result. After update is completed, the SW Info/Update screen displays the updated version.
- ✎ When you turn on the system while updating, you can see its progress.
- ✎ Scheduled update is canceled when:
 - Low battery is detected when turning off the vehicle.
 - The storage device with the update files is disconnected.
 - The vehicle is started before the update scheduled time.
 - The system has been turned off for more than 3 minutes with the vehicle turned off.

10

Appendix

Solutions

System status indicator icons

FAQ

Product specifications

Important information

Index

Trademarks

Open Source Information



Solutions

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
A blank screen appears and sound is not audible.	The system is turned off.	<ul style="list-style-type: none">• Check that the start switch is in "ACC" or "ON."• Press the Power button on the control panel to turn on the system.
	Sound volume is too low.	Use the Volume knob/button on the control panel to adjust the volume.
	Sound is muted.	Press the Mute button on the steering wheel to unmute.
Sound is audible from only one side of the speakers.	Sound is imbalanced.	On the All Menus screen, navigate to Setup ► Sound and use the settings menu to adjust the sound balance.
The sound is cut off or noise is heard.	Vibration occurs in the system.	When the system vibrates, the sound may be cut off or noise may occur. This is not a system failure. The system is restored as soon as the vibration stops.

Symptom	Possible cause	Solution
The image quality is poor.	Screen adjustment is required.	On the All Menus screen, navigate to Setup ► Display and use the settings menu to adjust the display settings.
	Vibration occurs in the system.	The images may get distorted when vibration occurs in the system. This is not a system failure. The system is restored as soon as the vibration stops.
	The display is aged or the system performance is degraded.	If the problem persists, contact your place of purchase or dealer.
Small red, blue, and green dots are shown on the screen.		LCD has very high-density pixels. For this reason, there may be dead pixels (that are always off) or lit pixels (that are always on) within 0.01 percent of the total pixels.

USB playback

Symptom	Possible cause	Solution
Files in a USB device cannot be played.	There are no compatible files for playback	Copy the files that can be played by the system to the USB device and connect the device again. ► See "USB mode."
	Poor connection is found.	Remove the USB device from the USB port and then reconnect it properly.
	The USB device is dirty.	Remove foreign materials from the surface that contacts the USB device and USB port.
	A USB hub or extension cable is used.	Connect the USB device directly to the USB port on the vehicle.
		
The USB device is non-standard.	Use a USB device that is compatible with the system. ► See "USB mode."	
The USB device is damaged.	Use your computer to format the USB device and then connect the device again. Format the device in FAT16/32 format.	

Bluetooth connection

Symptom	Possible cause	Solution
The system is not detected by a Bluetooth device.	Registration mode needs to be run.	On the All Menus screen, navigate to Setup ► Device Connections , run the device registration mode and then perform search again from the device. ► See " Connecting a Bluetooth device. "
The Bluetooth device is not connected.	The Bluetooth function should be activated. Any error occurs while using the Bluetooth function.	Activate the Bluetooth function on the Bluetooth device to connect. <ul style="list-style-type: none">• Turn the Bluetooth function OFF / ON on the Bluetooth device and then connect the device again.• Turn the Bluetooth device off and on and then connect the device again.• Remove the battery from the Bluetooth device and attach it back, turn on the device, and then connect the device again.• Delete the system and Bluetooth device from the registration lists respectively, and then connect the device again.

Phone projection

Symptom	Possible cause	Solution
The phone projection function is not performed when a smartphone is connected using a USB cable.	Phone projection is not supported.	Visit the website to check whether your smartphone supports the phone projection. <ul style="list-style-type: none">• Android Auto: https://support.google.com/androidauto• Apple CarPlay: http://www.apple.com/ios/carplay
	The function is inactive.	<ul style="list-style-type: none">• On the All Menus screen, navigate to Setup ► Device Connections and activate the connection function from the Phone Projection Settings menu.• Make sure that the phone projection is not disabled in the App settings or block-out settings on your smartphone.
	Smartphone is encountered with poor operation or malfunction.	<ul style="list-style-type: none">• Check that the smartphone battery level is not too low. Recognition may not work properly when the battery level is too low.• The phone projection may not work properly when the signal strength is weak.• When the smartphone is locked, first unlock it.• Initialize the smartphone and connect the device again.
A black screen appears when the phone projection is activated or in use.	The smartphone malfunctions.	<ul style="list-style-type: none">• Remove the USB cable from the smartphone and connect the device again.• Initialize the smartphone and connect the device again.

System operation

Symptom	Possible cause	Solution
The previous media mode does not appear when the system is turned off and on.	It is encountered with poor media connection or playback error.	When the media source is not connected or played normally, the previous mode appears. Connect the media source again or play it again.
The system slows down or does not operate at all.	An internal error occurs in the system.	<ul style="list-style-type: none">Restart the system by pressing the reset button with a sharp object such as pen or clip.If the problem persists, contact your place of purchase or dealer.
The system is not turned on.	Fuse-related issues	<ul style="list-style-type: none">Visit an auto service shop and replace the fuse with a new one of appropriate capacity.If the problem persists, contact your place of purchase or dealer.

Navigation system operation

Symptom	Possible cause	Solution
The destination is not searched.	Outdated map data	Update the map to the latest version. ▶ See "How to Update the Map and Software for your Infotainment System."
Route guidance of the navigation system does not match the actual road conditions.	Outdated map data	Update the map to the latest version. ▶ See "How to Update the Map and Software for your Infotainment System."
	There have been changes in the road after a map update.	Route guidance of the navigation system may not match the actual road conditions even after the map is updated to the latest version because the update depends on the creation date. Be sure to drive according to actual road conditions and regulations.
Guidance is made by bypassing the route or the speed camera alerts are not followed.	The update for the system and map data is required.	Update the map to the latest version. ▶ See "How to Update the Map and Software for your Infotainment System."
The real-time traffic information is not received.	Poor signal reception	<ul style="list-style-type: none"> • Reception of traffic information may not be made smoothly in mountain and island areas. Check the reception status again in a region with strong signals. • If the problem persists, contact your place of purchase or dealer.

System status indicator icons

You can see the system status by checking the status indicator icons at the top right of the system screen.

Different status indicator icons appear when each function is performed. The meanings of the icons are as follows:



Mute/memo recording



	Navigation sound muted
	Radio/Media sound muted
	All sound outputs muted
	Recording a voice memo

Bluetooth/call



	Connecting a phone via Bluetooth
	Connecting an audio device via Bluetooth
	Connecting a phone and an audio device via Bluetooth
	Making a call via a Bluetooth phone
	Bluetooth phone's microphone off
	Downloading the contact and list of recent calls from the connected Bluetooth phone

Bluelink



	Talking with a Bluelink phone
	Bluelink phone's microphone off
	Bluelink network's signal strength

System update



	Scheduling the update
	Updating

Available functions in the rear seat (if equipped)



	Rear-seat remote control locked
	Rear-seat sleep mode On
	Front-seat driver is having a conversation with a rear-seat occupant

Wireless charging



	Wireless charging in progress
	Wireless charging complete
	Wireless charging failure

Some icons may not appear depending on the vehicle model and specifications.

FAQ

Navigation

Q How can I update the map?

A You can download the latest map data to a USB device and use the device to update the map. ▶ See "How to Update the Map and Software for your Infotainment System."

Q Guidance is made by bypassing the route or the speed camera alerts are late.

A Select another route after setting the route options. On the map screen, press  ▶ **Route** ▶ **Route Options** to change the settings and resume navigation.
▶ See "Changing the route search option."

When the system is not updated, update the software and map and then perform search again. ▶ See "How to Update the Map and Software for your Infotainment System."

Bluetooth

Q Which functions can I use via Bluetooth?

A You can use the hands-free call function with a mobile phone connected. You can also play music after connecting an audio device such as MP3 player or mobile phone.
▶ See "Making a call via Bluetooth," "Playing music via Bluetooth."

Q How can I register a Bluetooth device?

A On the All Menus screen, press **Setup** ▶ **Device Connections** ▶ **Device Connections** ▶ **Add New**. From the Bluetooth device to be connected, search for the vehicle system and register it. Use the Bluetooth device to enter or approve the authentication number displayed on the system. Then the device is added to the list of Bluetooth devices in the system and automatically connected to the system.
▶ See "Connecting a Bluetooth device."

Q I bought a new mobile phone and want to replace my old phone with the new one to connect the system. How can I register the new phone to the system?

A An additional device can be registered in the same way as in registration of a new device. You can register up to 6 devices in the list of Bluetooth devices. To delete a previously registered device, press **Delete Device(s)** from the list of Bluetooth devices, select the device to delete, and then press **Delete**. ▶ See "Deleting a registered device."

Q How can I access the list of contacts while using a Bluetooth phone?

A Approve access to the contacts when connecting your mobile phone to the system via Bluetooth. The list of contacts on the phone is downloaded to the system. To see the downloaded list of contacts, press the Call button on the steering wheel and press  on the call screen. You can search for a contact and make a call to the contact, or add the contact to the favorites. ▶ See "Dialing from the contacts."

Broadcast reception

Q I turned on the radio while driving but I heard no sound but noise.

A Depending on the location, obstacles may cause reception to deteriorate. Radio reception rate may also drop when an on-glass antenna is mounted on the rear window and the window is tinted with metallic window films.

Self-inspection method upon failure

Q The system does not operate properly. What shall I do?

A Inspect the system after referring to Troubleshooting Guide. ▶ See "Solutions."
When the system failure persists after inspection, press and hold the Reset button to reset the system.
If the problem persists, contact your place of purchase or dealer.

Product specifications

Media player

USB mode

Music files

Item	Specifications
File format	MPEG-1/2 Layer3, OGG (Vorbis), FLAC, WMA (Standard/Professional), WAV
Bit-rate and sampling frequency	MP3 8–320 kbps (CBR/VBR), up to 48 kHz (ID3 tag version: Ver. 1.0, Ver. 1.1, Ver. 2.2, Ver. 2.3, Ver. 2.4)
	OGG Q1 to Q10, up to 48 kHz
	FLAC 8/16/24-bit, up to 48 kHz
	WMA Standard (0x161): up to L3 Profile, up to 385 kbps, up to 48 kHz Professional (0x162): up to M0b, up to 192 kbps, up to 48 kHz
	WAV 8/16 to 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

- ✍ The following files are not played.
 - Modified files (format-changed files)
 - Variant files (e.g. MP3 files encoded by 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 bit rate, 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.

■ USB storage devices

Item	Specifications
Byte/Sector	64 KB or less
Format system	FAT16/32 (recommended), exFAT, NTFS

- ✍ 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.
- ✍ Problems that are caused by using USB storage devices (not specified in the following list), are not covered by the warranty.

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

- ✍ 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.

Common specifications

Item	Specifications
Power supply	DC 14.4 V
Operating voltage	DC 9-16 V
Dark current	Below 1 mA in average within 45 days
Operating temperature range	-20 to +70 °C
Storage temperature range	-40 to +85 °C
Electric current consumption	2.5 A

Radio

Item	Specifications
Available channels (A2)-USA	FM: 87.5–107.9 MHz (step: 200 kHz) AM: 530–1710 kHz (step: 10 kHz)
Available channels (A6)-GUAM	FM: 87.5–107.9 MHz (step: 200 kHz) AM: 531–1701 kHz (step: 9 kHz)
Sensitivity	FM: Within 10 dBuV AM: Within 35 dBuV EMF
Distortion factor	Within 2 %

 Depending on vehicle models or specifications, available radio channels may vary.

Bluetooth

Item	Specifications
Frequency range	2400–2483.5 MHz
Supported profiles	Hands-free (1.7), A2DP (1.3), AVRCP (1.6), PBAP (1.1/1.2), MAP (1.2/1.4)
Bluetooth Power Class 2	-6 to 4 dBm
Antenna power output	2.5 mW (max.)
Number of channels	79

LTE RF

Item	Specifications	
LTE	Reception	Frequency: 1930 MHz to 1990 MHz (B2), 2110 MHz to 2155 MHz (B4), 869 MHz to 894 MHz (B5), 746 MHz to 756 MHz (B13) Sensitivity: -94.3 dBm under@10 M (B2,5), -96.3 dBm under@10 M (B4), -93.3 dBm under@10 M (B13) (Throughput ≥ 95 %)
	Transmission	Frequency: 1850 MHz to 1910 MHz (B2), 1710 MHz to 1755 MHz (B4), 824 MHz to 849 MHz (B5), 777 MHz to 787 MHz (B13) Maximum RF output power: Power Class3 (B4, B13),
CDMA	Reception	Frequency: 869 MHz to 894 MHz (BC0), 1930 MHz to 1990 MHz (BC1) Sensitivity: -104 dBm under (FER = 0.5 % under)
	Transmission	Frequency: 824 MHz to 849 MHz (BC0), 1850 MHz to 1910 MHz (BC1) Maximum RF output power: Power Class3 (BC0), Power Class2 (BC1),

Wi-Fi (if equipped)

Item	Specifications
Frequency	2412 to 2462 MHz, 5180 to 5825 MHz
Specification	IEEE802.11a/b/g/n/ac
Supported bandwidth	20/40/80 MHz
Operating temperature	-20 to +70 °C (-4 to +158 °F)

Important information

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

Keep this guide in your vehicle

When kept in the vehicle, this guide will be a ready reference for you and other users unfamiliar with the system. Ensure that before using the system for the first time, all persons have access to this 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 setting up or changing some functions as you drive may distract your attention away from the road and removing your hands from the steering wheel may cause you to lose control of the vehicle.

General operation

Voice command control

Features within the system may be executed using only voice commands. Using voice commands while driving allows you to operate the system without removing your hands from the steering wheel.

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 short views of the screen may be hazardous if your attention has been diverted away from your driving.

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.

Navigation features

Navigation features included in the system are intended to provide detailed instructions to get you to a desired destination. Ensure that all persons using this system carefully read and follow all instructions on safety information.

Distraction hazard

Some navigation features may require manual (non-verbal) setup. Attempting to perform such setup or inputting data while driving can seriously distract your attention and could cause an accident. 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 must evaluate whether it is safe to follow the suggested directions.

Potential map inaccuracy

Maps used by this system may be inaccurate because of changes in roads, traffic controls or driving conditions. Always use good judgment and common sense when following the suggested routes.

Emergency services

Do not rely on any navigation features included in the system to direct 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.

Index

A

Advanced system settings 9-48

Android devices

Android Auto 2-5

Apple devices

Apple CarPlay 2-7

B

Battery warning 1-7

Bluelink

Bluelink menu

Diagnosing the vehicle 8-9

Maintenance service intervals 8-9

Schedule details 8-5

Settings 8-10, 9-78, 9-79

Voice Local Search 8-10

Weather information 8-8

Bluelink service 8-2

Route guidance service 8-13

Safety and security services 8-11

Auto Collision Notification 8-11

SOS 8-11

Bluetooth

Bluetooth phone

Answering a call 6-15

Call 6-6

Contacts list 6-10

Dial pad 6-12

Favorites settings 6-8

Options during a call 6-16

Recent calls list 6-6

Switching to another call 6-17

Text message 6-17

Specifications 10-15

Bluetooth connection

Adding a device 6-2

Deleting a device 6-5

Device connection 6-4

Disconnecting a device 6-5

C

Climate

Climate settings 9-11, 9-32

Climate control function 2-14

Component names and functions

Control panel

MAP button 1-2

MEDIA button 1-3

NAV button 1-2

POWER button/VOLUME knob 1-2

RADIO button 1-3

Search lever/knob 1-3

SEEK/TRACK button 1-3

SETUP button 1-3

System Reset button 1-3

VOLUME button 1-2

Steering wheel remote control

Call button 1-4, 1-5

Custom button 1-5

End Call button 1-4

MODE button 1-4

Move lever/button 1-4

Voice Recognition button 1-4

Volume lever/Mute button 1-4

Contacts list 6-11

Control panel 1-2

D

- Defog/Defrost Options 9-12, 9-33
- Deleting a location 5-27
- Destination search 5-3
- Driving assistance screen 2-9
- Driving Information 2-26

E

- Editing a location 5-26
- Editing a route 5-17
- EV charging stations 5-28

F

- FAQ 10-11
 - Bluetooth 10-11
 - Broadcast reception 10-12
 - Navigation 10-11
 - Self-inspection method upon failure 10-12
- Finding a route easily 5-3
 - Destination search 5-3
- Finding the route
 - Adding a waypoint 5-17
 - Address search 5-11
 - Frequently visited places 5-25
 - Gas stations 5-27
 - Location registration
 - Deleting a POI 5-27
 - Editing a POI 5-26
 - Registration after search 5-23
 - Map 5-6
 - Map update 9-107
 - Previous Destinations 5-13
 - Saving the current position 5-24
 - Searching for POIs 5-15
 - Volume adjustment 5-9

H

- HD Radio Data 2-23
- HD Radio™ 3-11
- Home screen 1-11

L

- Listening to music
 - Bluetooth audio 4-8
 - USB music 4-2
- Location registration 5-23

M

- Map 5-6
- Map update 9-107
- Media device connection 4-2
- Media player
 - Bluetooth audio 4-8
 - USB music 4-2
- Messages 6-17

N

- Navigation 5-2, 5-11
- Navigation settings 9-66, 9-71
- Notifications 2-27

P

Parking assist guide lines 2-9

Phone projection

Android Auto 2-5

Apple CarPlay 2-7

Previous Destinations 5-13

Product specifications

Bluetooth 10-15

Common specifications 10-15

LTE RF 10-16

Media player 10-13

Radio 10-15

Proximity Warning 2-11

R

Radio

Changing the channel 3-7, 3-8

Changing the radio mode 3-6

Deleting a channel 3-10

Scanning channels 3-9

Rear-seat climate control function 2-18

Rear-seat conversation mode 2-20

Rear-seat quiet mode 2-21

Rear view screen 2-9

Recent calls list 6-7

S

Save searched place 5-23

Saving frequently visited places 5-25

Saving the current position 5-24

Settings

Advanced settings 9-48

Bluelink settings 9-78, 9-79

Bluetooth settings 9-46

Button settings 9-52, 9-53

Device connections settings 9-40, 9-43

Display settings 9-96

General settings 9-83, 9-89

Media settings 9-106

Navigation settings 9-66, 9-71

Screen theme/layout settings 9-95

Sound settings 9-56, 9-60

System display settings 9-101

User profile settings 9-80, 9-82

Vehicle settings 9-3, 9-20

Voice recognition settings 9-64, 9-65

Siri Eyes Free 7-22

SiriusXM 3-13

Changing to SiriusXM mode 3-13, 3-14

Featured Favorites channels 3-19, 3-20

Searching for channels 3-16

Selecting channels 3-17

Viewing the program schedule 3-18,
3-19

Software update 9-107

Solutions

- Bluetooth connection 10-5
- Navigation system operation 10-8
- Phone projection 10-6
- Sound and display 10-2
- System operation 10-7
- USB playback 10-4

Sounds of Nature 2-22

Split screen 1-16

Steering wheel remote control 1-4

Surround view monitor

- Door opening/mirror folding alert 2-13
- Rear view video 2-13

System Info 9-84, 9-89

System status indicator icons 10-9

System update 9-107

T

Touch screen 1-8

Turning the system on or off 1-6

U

Update 9-107

USB file specifications 10-13

USB music 4-2

USB port 4-2

USB storage device specifications 10-14

V

Valet mode 2-28

Voice memo 7-23

Voice recognition

- Help 7-4
- Navigation commands 7-8
- Other commands 7-11
- POI name 7-12
- Radio commands 7-9
- Settings 9-64, 9-65
- Using the voice recognition 7-3
- Volume setting 7-4

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Open Source Information

This system contains open source software.

To obtain the source code developed under the open source license installed on this product, please visit <https://en.mobis.co.kr/opensource/list.do>.

You can download all applicable license notices, including the source code.

If you send an e-mail to MOBIS_OSSrequest@mobis.co.kr within three years of purchasing this product to request an open source code for the software on this product, you will receive it in CD-ROM and other storage mediums with minimal charge, such as costs for medium and transportation.

FCC Certification

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

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

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

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

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

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 co-located or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

IC Warning

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

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

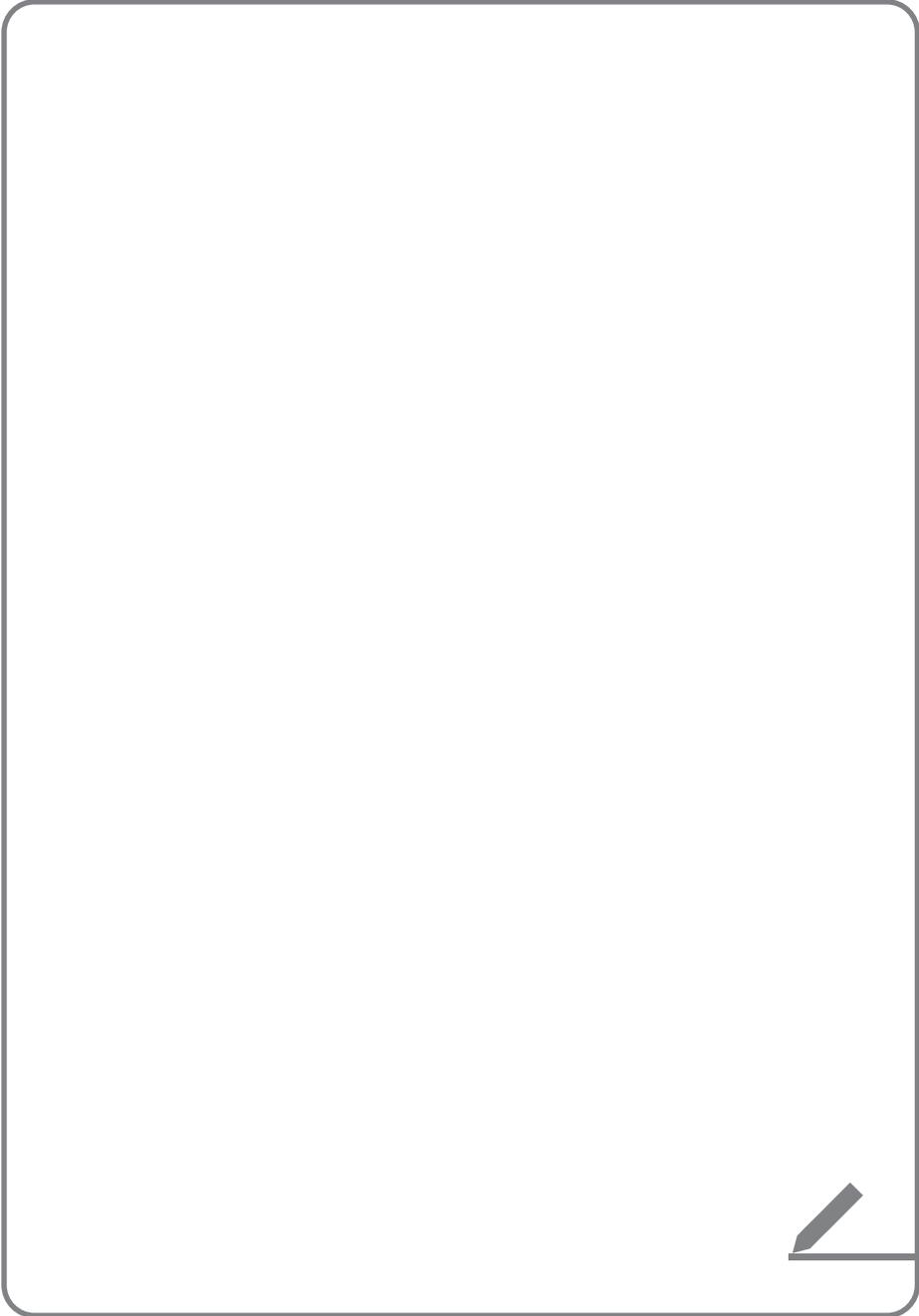
RF Exposure

The antenna (or antennas) must be installed so as to maintain at all times a distance minimum of at least 20 cm between the radiation source (antenna) and any individual. This device may not be installed or used in conjunction with any other antenna or transmitter.

l'exposition aux RF

L'antenne (ou les antennes) doit être installée de façon à maintenir tout instant une distance minimum de au moins 20 cm entre la source de radiation (l'antenne) et toute personne physique.

MEMO



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