

## DNX775RVS

### GPS NAVIGATION SYSTEM INSTRUCTION MANUAL

JVC KENWOOD Corporation

- Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from <http://www.kenwood.com/cs/ce/>.
- The Instruction manual is subject to change for modification of specifications and so forth. Be sure to download the latest edition of the Instruction manual for reference. <http://manual.kenwood.com/edition/im395/>

**Take the time to read through this instruction manual.**

**Familiarity with installation and operation procedures will help you obtain the best performance from your new GPS Navigation System.**

#### **For your records**

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model DNX775RVS Serial number \_\_\_\_\_

#### ***US Residence Only***

### **Register Online**

Register your KENWOOD product at [www.kenwood.com/usa/](http://www.kenwood.com/usa/)

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# Before Use

## Precautions

### ⚠ WARNINGS

#### ■ To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- If you experience problems during installation, consult your KENWOOD dealer.

#### ■ Precautions on using this unit

- When you purchase optional accessories, check with your KENWOOD dealer to make sure that they work with your model and in your area.
- You can select language to display menus, audio file tags, etc. See **User Interface Setup (P.69)**.
- The Radio Data System or Radio Broadcast Data System feature won't work where the service is not supported by any broadcasting station.

#### ■ Protecting the monitor

- To protect the monitor from damage, do not operate the monitor using a ball point pen or similar tool with the sharp tip.

#### ■ Cleaning the unit

- If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.

#### NOTE

- Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erase screened print.

#### ■ Lens fogging

When you turn on the car heater in cold weather, dew or condensation may form on the lens in the disc player of the unit. Called lens fogging, this condensation on the lens may not allow discs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your KENWOOD dealer.

#### ■ Precautions on handling discs

- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use disc type accessories.
- Clean from the center of the disc and move outward.
- When removing discs from this unit, pull them out horizontally.
- If the disc center hole or outside rim has burrs, use the disc only after removing the burrs with a ballpoint pen etc.
- Discs that are not round cannot be used.



- 8-cm (3 inch) discs cannot be used.
- Discs with coloring on the recording surface or discs that are dirty cannot be used.
- This unit can only play the CDs with



- This unit may not correctly play discs which do not have the mark.
- You cannot play a disc that has not been finalized. (For the finalization process see your writing software, and your recorder instruction manual.)

## Acquiring GPS signal

The first time you turn on this unit, you must wait while the system acquires satellite signals for the first time. This process could take up to several minutes. Make sure your vehicle is outdoors in an open area away from tall buildings and trees for fastest acquisition.

After the system acquires satellites for the first time, it will acquire satellites quickly each time thereafter.

## Caution for Smartphone Users

Simultaneously running multiple applications on your smartphone while screen sharing places heavy demand on the microprocessor of the phone, potentially affecting communication and performance.

For best results while pairing with your Kenwood receiver, please be sure to close any unused applications by performing the following steps:

Android operating system example:

- Turn off WiFi in phone settings menu.
- Close all open applications before connecting for in-car use. Hold the <Home> key and select <Close all> to close all open applications.
- Clear RAM Memory of the Android phone before connecting for in-car use. Hold the <Home> key and select <Task Manager> then select <RAM> then select <Clear memory> to clear current memory processes.



<Home> Key

## Safety Precautions and Important Information

Read this information carefully before starting to operate the KENWOOD Car Navigation System and follow the instructions in this manual.

Neither KENWOOD nor Garmin shall be liable for problems or accidents resulting from failure to observe the instructions in this manual.

### WARNING

**Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.**

When navigating, carefully compare information displayed on the navigation system to all available navigation sources, including information from street signs, visual sightings, and maps. For safety, always resolve any discrepancies or questions before continuing navigation.

Always operate the vehicle in a safe manner.

Do not become distracted by the navigation system while driving, and always be fully aware of all driving conditions. Minimize the amount of time spent viewing the screen of the navigation system while driving, and use voice prompts when possible.

Do not enter destinations, change settings, or access any functions requiring prolonged use of the navigation system controls while driving. Stop your vehicle in a safe and legal manner before attempting such operations.

Keep the system volume at a low enough level to be able to hear outside noises while driving. If you can no longer hear outside noises, you may be unable to react adequately to the traffic situation. This may cause accidents.

The navigation system will not display the correct current position of the vehicle the first time it is used after purchase, or if the vehicle battery is disconnected. GPS satellite signals will soon be received, however, and the correct position will be displayed.

Be careful of the ambient temperature. Using the navigation system at extreme temperatures can lead to malfunction or damage. Also note that the unit can be damaged by strong vibration, by metal objects, or by water getting inside the unit.

## **⚠ CAUTION**

**Failure to avoid the following potentially hazardous situations may result in injury or property damage.**

The navigation system is designed to provide you with route suggestions. It does not reflect road closures or road conditions, weather conditions, or other factors that may affect safety or timing while driving.

Use the navigation system only as a navigational aid. Do not attempt to use the navigation system for any purpose requiring precise measurement of direction, distance, location, or topography.

The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The government system is subject to changes that could affect the accuracy and performance of all GPS equipment, including the navigation system. Although the navigation system is a precision navigation device, any navigation device can be misused or misinterpreted and, therefore, become unsafe.

## **📄 IMPORTANT INFORMATION**

### ***Vehicle Battery Preservation***

This navigation system can be used when the ignition key is turned to ON or ACC. To preserve the battery, however, it should be used with the engine running whenever possible. Using the navigation system for a long time with the engine switched off can cause the battery to run down.

### ***Map Data Information***

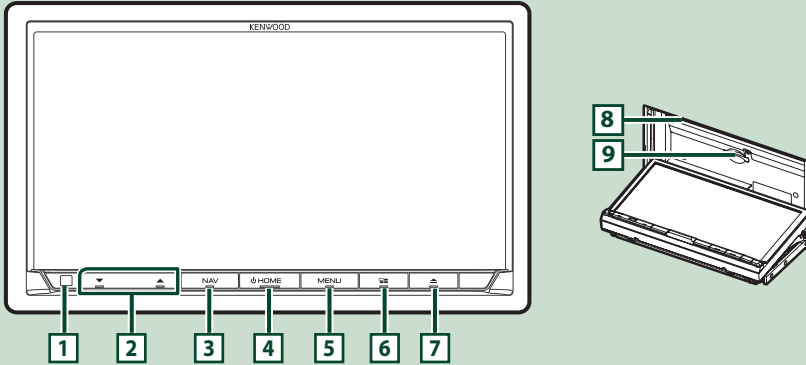
One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify in product literature and copyright messages displayed to the consumer. Virtually all data sources contain some inaccurate or incomplete data. In some countries, complete and accurate map information is either not available or is prohibitively expensive.

## **How to read this manual**

- The screens and panels shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual screens or panels used, or some display patterns may be different.
- **Indication language:** English indications are used for the purpose of explanation. You can select the indication language from the **SETUP** menu. See **User Interface Setup (P.69)**.

# Basic Operations

## Functions of the Buttons on the Front Panel



### NOTE

- The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.

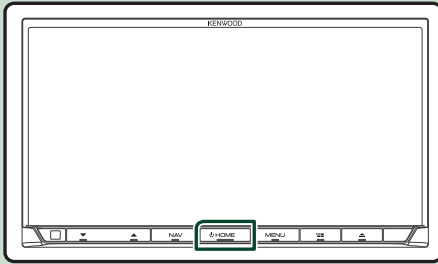
| Number | Name             | Motion   |
|--------|------------------|--|
| 1      | Remote Sensor    | <ul style="list-style-type: none"> <li>Receives the remote control signal.</li> </ul>  |
| 2      | ▼, ▲<br>(Volume) | <ul style="list-style-type: none"> <li>Adjusts the volume.</li> <li>The volume will go up to 15 when you keep pressing ▲.</li> </ul>   |
| 3      | NAV              | <ul style="list-style-type: none"> <li>Displays the navigation screen.</li> </ul>  |
| 4      | HOME             | <ul style="list-style-type: none"> <li>Displays the HOME screen (P.11).</li> <li>Pressing for 1 second turns the power off.</li> <li>When the power is off, turns the power on.</li> </ul>   |
| 5      | MENU             | <ul style="list-style-type: none"> <li>Displays the popup menu screen.</li> <li>Pressing for 1 second switches view camera display on/off. (P.66)               <ul style="list-style-type: none"> <li>The camera whose view is displayed first changes according to the "Camera Setup" setting and the shift lever position in the shift gate.</li> </ul> </li> </ul>   |
| 6      | APP              | <ul style="list-style-type: none"> <li>Displays the APP (CarPlay/ Android Auto/ WebLink) screen.</li> <li>Pressing for 1 second displays the Voice Recognition screen (P.62).</li> </ul>   |
| 7      | ▲                | <ul style="list-style-type: none"> <li>Displays the Angle Adjust screen.               <ul style="list-style-type: none"> <li><b>DISC EJECT</b>: Ejects the disc.</li> <li><b>OPEN</b>: Fully opens the panel to the location of the SD card slot.</li> </ul> </li> <li>When the panel is opened, pressing closes the panel.</li> <li>To forcibly eject the disc, press it for 2 seconds and then touch <b>DISC EJECT</b> after the message is displayed.</li> </ul> |
| 8      | Disc insert slot | <ul style="list-style-type: none"> <li>A slot to insert a disc media.</li> </ul>   |

| Number | Name         | Motion   |
|--------|--------------|--|
| 9      | SD card slot | <ul style="list-style-type: none"><li>• A slot to insert an SD card.</li><li>• You can play audio/visual files in the card. *</li><li>• An SD card slot for upgrading the map. For how to upgrade the map, refer to the instruction manual of the navigation system.</li></ul> <p>* If the map update file remains in the SD card, you cannot play audio/visual files.<br/>* Do not pull out the MAP SD while "Loading Maps" is being displayed.</p> |

## Turning on the Unit

The method of turning on is different depending on the model.

- 1 Press the **HOME** button.



➤ The unit is turned on.

- **To turn off the unit:**

- 1 Press the **HOME** button for 1 second.

### NOTE

- If it is your first time turning the unit on after installation, it will be necessary to perform Initial setup **(P.9)**.



## Initial Settings

### Initial setup

Perform this setup when you use this unit first time.

#### 1 Set each item as follows.




#### ■ Locale

Select the country for the navigation system. The language, the distance unit, and the gasoline unit are set.

- ① Touch **Locale**.
- ② Select the desired country.

#### ■ Language

Select the language used for the control screen and setting items. Default is "American English (en)".



- ① Touch **Language**.
- ② Touch **Language Select**.
- ③ Select the desired language.
- ④ Touch .

For detailed operation, see **User Interface Setup (P.69)**.

#### ■ Display

Set the button illumination color.


If it is hard to see the image on the screen even, adjust the viewing angle.

- ① Touch **Display**.
- ② Touch **Key Color**.
- ③ Select the desired color.
- ④ Touch .
- ⑤ Touch **Viewing Angle**.
- ⑥ Select an angle
- ⑦ Touch .

For detailed operation, see **Display Setup (P.71)**.

#### ■ Camera

Set the parameters for the camera.

- ① Touch **Camera**.
- ② Set each item and touch .

For detailed operation, see **Camera Setup (P.66)**.

#### ■ OEM SETUP

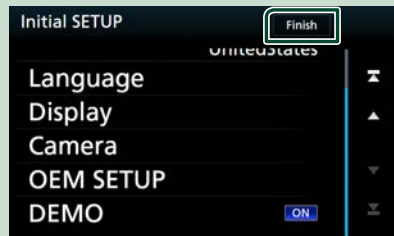
This function requires a commercial adaptor. Consult your KENWOOD dealer for details.

#### ■ DEMO

Set the demonstration mode. Default is "ON".

- ① Touch **DEMO** and set ON or OFF.

#### 2 Touch Finish.



#### NOTE

- These settings can be set from the SETUP menu. See **Setting Up (P.69)**.

## Calendar/clock settings

- 1 Press the **MENU** button.  
➤ Popup menu appears.

- 2 Touch **SETUP**.



➤ SETUP Menu screen appears.

- 3 Touch **User Interface**.



➤ User Interface screen appears.

- 4 Set each item as follows.  
Scroll the page to show the item.



### ■ Clock

**NAV-SYNC** (Default): Synchronizes the clock time with navigation GPS data.

**Manual**: Sets the clock manually.

### ■ Time Zone

If you have selected **Manual** for Clock, select the time zone.

### ■ Clock Adjust

If you select **Manual** for Clock, adjust the date and time manually. **(P.70)**

## NOTE

- Please set the date and time. If it is not set, it may not work with some functions.

## Adjusting the volume

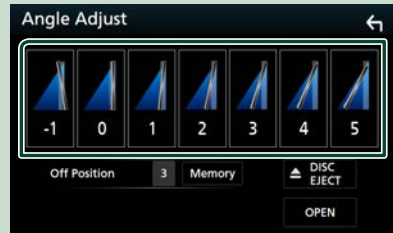
To adjust the volume (0 to 40), Press **▲** to increase, and press **▼** to decrease. Holding **▲** increases the volume continuously to level 15.



## Monitor Angle Control

You can adjust the position of the monitor.

- 1 Press the **▲** button.  
➤ Angle Adjust screen appears.
- 2 Select a below number that represents your desired angle setting.  
Default is "0".



### ■ Off Position

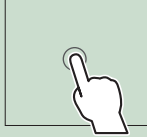
You can store the current monitor angle as the angle during power off. Touch **Memory** when the desired angle is selected.

## Touch screen operations

To perform operations on the screen, you need to touch, touch and hold, flick or swipe to select an item, display setting menu screen or to change the page, etc.

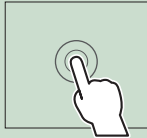
### ● Touch

Touch the screen gently to select an item on the screen.



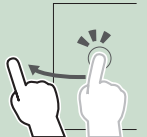
### ● Touch and hold

Touch the screen and keep your finger in place until the display changes or a message is displayed.



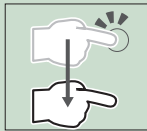
### ● Flick

Slide your finger quickly to the left or right on the screen to change the page. You can scroll the list screen by flicking the screen up/down.



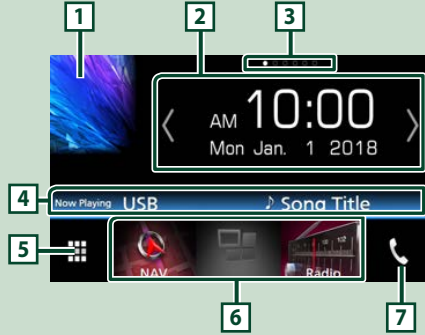
### ● Swipe

Slide your finger up or down on the screen to scroll the screen.



## HOME screen descriptions

Most functions can be performed from the HOME screen.



- |   |  |
|---|--|
| 1 | <ul style="list-style-type: none"> <li>Displays the control screen of current source.</li> <li>The artwork is displayed if available from current content.</li> </ul>  |
| 2 | <ul style="list-style-type: none"> <li>Widget               <ul style="list-style-type: none"> <li>You can change the widget by touching  or flicking left or right on the widget area.</li> <li>Touch the widget to display the detailed screen.</li> </ul> </li> </ul> |
| 3 | <ul style="list-style-type: none"> <li>Page indication for widgets</li> </ul>  |
| 4 | <ul style="list-style-type: none"> <li>Current source information</li> </ul>   |
| 5 | <ul style="list-style-type: none"> <li>Displays the source selection screen. <b>(P.13)</b></li> </ul>  |
| 6 | <ul style="list-style-type: none"> <li>Short-cut playback source icons <b>(P.13)</b></li> </ul>  |
| 7 | <ul style="list-style-type: none"> <li>Displays the Hands Free screen. <b>(P.61)</b> <ul style="list-style-type: none"> <li>When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.</li> </ul> </li> </ul>      |

## Display the HOME

- 1 Press the **HOME** button.



➤ HOME screen appears.

## Popup menu

- 1 Press the **MENU** button.



➤ Popup menu appears.

- 2 Touch to display the popup menu.



The contents of the menu are as follows.

|  |   |
|--|---|
|  | • Displays the Screen Adjustment screen. <b>(P.69)</b>  |
|  | • Turns the display off. <b>(P.12)</b>  |
|  | • Displays the view camera. <b>(P.66)</b>   |
|  | • Displays the SETUP Menu screen. <b>(P.69)</b>   |
|  | • Displays the Audio screen. <b>(P.74)</b>  |
|  | • Displays the control screen of current source. Icon feature differs depending on the source.                                  |
|  | • Close the popup menu.   |
|  | • See <b>HOME screen descriptions (P.11)</b> .  |
|  |   |
|  | • Ejects the disc.<br>• To forcibly eject the disc, press it for 2 seconds and touch <b>Yes</b> after the message is displayed. |

## Turn off the screen

- 1 Select **Display OFF** on the popup menu.



- To turn on the screen

- 1 Touch the display.


## Source selection screen descriptions

You can display all playback sources and options on the source selection screen.



- |          |   |
|----------|---|
| <b>1</b> | • Changes the playback source. For playback sources, see <b>P.13</b> .  |
| <b>2</b> | • Changes the page. (Touch <b>◀</b> / <b>▶</b> .) You can also change the page by flicking left or right on the screen. |
| <b>3</b> | • Returns to previous screen.   |
| <b>4</b> | • Page indication   |
| <b>5</b> | • Displays the SETUP Menu screen. <b>(P.69)</b>   |

## Select the playback source

1 Touch  on the HOME screen.

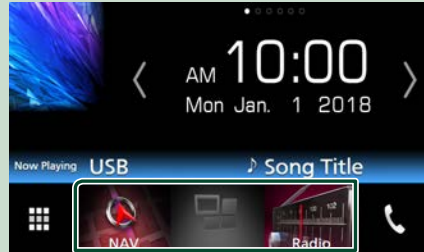
From the screen, you can select the following sources and functions.

|   |   |
|---|---|
|    | • Displays the navigation screen. (P.16)  |
|    | • Switches to the Android Auto/ Apple CarPlay screen from the connected iPhone/Android device.*1 (P.26) |
|    | • Switches to the Radio broadcast. (P.40)   |
|    | • Switches to the SiriusXM® satellite radio broadcast. (P.43)   |
|    | • Plays a Bluetooth audio player. (P.55)  |
|    | • Plays a disc. (P.20)  |
|    | • Plays an iPod/iPhone. (P.37)  |
|    | • Plays files on a USB device. (P.34)   |
|    | • Plays files on a microSD. (P.34)  |
|    | • Switches to the Pandora. (P.30)   |
|   | • Switches to the Spotify. (P.32)   |
|  | • Switches to an external component connected to the AV-IN input terminal. (P.68)                       |
|  | • Displays the WebLink screen. (P.29)   |
|  | • Displays the Waze screen. (P.29)  |
|  | • Displays the Audio screen. (P.74)   |
|  | • Puts the unit in standby. (P.14)  |

- For sources and information displayed when an ADS adapter is connected, see **OEM Features Operation (P.68)**.

\*1 When iPhone compatible with CarPlay is connected, **Apple CarPlay** is displayed. When an Android device compatible with Android Auto is connected, **Android Auto** is displayed.

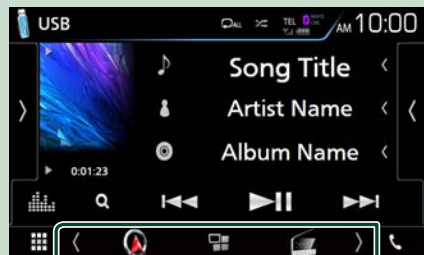
### To select the playback source on the HOME screen





The 3 items displayed on the source selection screen as the large icons are shown on the HOME screen.

You can change items displayed on this area by customizing the source selection screen. (P.14)

### To select the playback source on the source control screen



Display source selection buttons by touching  or  or flicking left or right on the source control screen, then select a playback source.


## Put the unit in standby

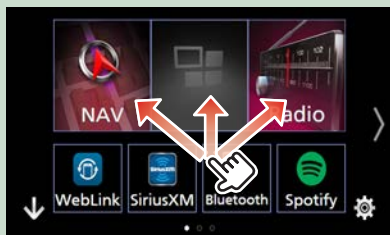
- 1 Touch  on the HOME screen.
- 2 Touch **STANDBY**.



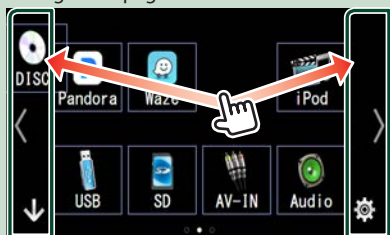
## Customize Short-cut buttons on HOME screen

You can arrange the position of the source icons as you like.

- 1 Touch  on the HOME screen.
- 2 Touch and hold the icon which you want to move to go into the customizing mode.
- 3 Drag it where you want to move.



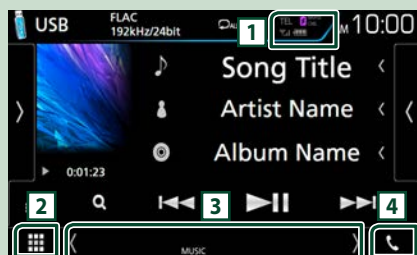
Changes the page



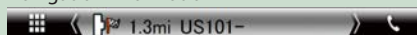
## Source control screen descriptions

There are some functions which can be operated from most screens.

Indicators




Navigation information



Short-cut buttons





- Connected Bluetooth device information.
-  **RAPID CHG.**: Lights up when quick charging battery of the connected iPod/ iPhone/ Smartphone.

### 2 **All sources icon**

Displays all sources.

### 3 Secondary screen

-   : The Secondary screen changes every time you touch it. You can also change the Secondary screen by flicking left or right on the screen.
- Indicators: Displays the current source condition and so on.
  - **ATT**: The attenuator is active.
  - **DUAL**: The dual zone function is on.
  - **MUTE**: The mute function is active.
  - **LOUD**: The loudness control function is on.
- Navigation information: Displays the current location and the direction. The screen changes to the navigation screen when you touch here.
- Short-cut buttons: The source changes to the one you have set as a short-cut. For the short-cut setting, refer to **Customize Short-cut buttons on HOME screen (P.14)**.

### 4

Touch to display the Hands Free screen. **(P.61)**  
 When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

## List screen

There are some common function keys in the list screens of most sources.



### 1

Displays list type selection window.

### 2





Displays music/movie file list.

### 3 **Text scroll**



Scrolls the displayed text.



### 4 **etc.**

Keys with various functions are displayed here.

-  **Play**: Plays all tracks in the folder containing the current track.
-  **A-Z**: Jump to the letter you entered (alphabet search).
-  **Top**  **Up**: Moves to the upper hierarchy.

### 5 / / / **Page scroll**

You can change the page to display more items by pressing  / .

-  / : Displays the top or bottom page.

### 6 **Return**

Returns to previous screen.

#### NOTE

- Buttons which cannot be activated from the list screen are not displayed.

## Navigation Operation

For details on the navigation function, please refer to the Navigation Instruction Manual.

### Display the navigation screen

- 1 Press the **NAV** button.



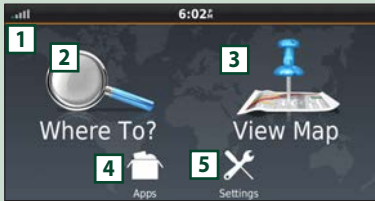
- The navigation screen appears.

- 2 Touch .

- Main Menu screen appears.

### How to Use the Navigation System

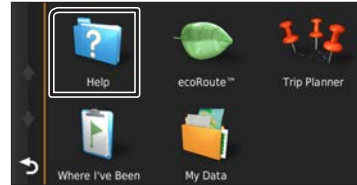
- 1 Operate the desired function from the Main Menu screen.



- |   |  |
|---|--|
| 1 | GPS satellite strength.                  |
| 2 | Finds a destination.                     |
| 3 | Views the map.                           |
| 4 | Uses the Apps such as ecoRoute and Help. |
| 5 | Adjusts the settings.                    |

#### NOTE

- You can get additional information about using the navigation system from Help. To display Help, touch **Apps** and then touch **Help**.



- For more information about your navigation system, download the latest version of the Owner's Manual from <http://manual.kenwood.com/edition/im395/>

- 2 Enter your destination and start the guidance.

Finding points of interest

- ① Touch **Where To?**
- ② Select a category and a subcategory.
- ③ Select a destination.
- ④ Touch **Go!**

#### NOTE

- To enter letters contained in the name, touch the Search bar and enter the letters.

- 3 Follow your route to the destination.

#### NOTE

- The speed limit icon feature is for information only and does not replace the driver's responsibility to abide by all posted speed limit signs and to use safe driving judgment at all times. Garmin and JVC KENWOOD will not be responsible for any traffic fines or citations that you may receive for failing to follow all applicable traffic laws and signs.

Your route is marked with a magenta line. As you travel, your navigation system guides you to your destination with voice prompts, arrows on the map, and directions at the top of the map. If you depart from the original route, your navigation system recalculates the route.






|   |   |
|---|---|
| 1 | Views the Next Turn page or the junction view page, when available. |
| 2 | Views the Turn List page.   |
| 3 | Views the Where Am I? page.   |
| 4 | Stops the current route.  |
| 5 | Displays traffic information on the route.                          |
| 6 | Returns to the Main menu.   |
| 7 | Displays a different data field.                                    |
| 8 | Views the Trip Computer.  |
| 9 | Displays more options.  |



#### NOTE

- Touch and drag the map to view a different area of the map.
- A speed limit icon could appear as you travel on major roadways.



### ● Adding a stop

- ① While navigating a route, touch  and then touch **Where To?**
- ② Search for the extra stop.
- ③ Touch **Go!**
- ④ Touch **Add to Active Route** to add this stop before your final destination.

### ● Taking a detour

- ① While navigating a route, touch .
- ② Touch .

### ■ Manually avoiding traffic on your route

- ① From the map, touch .
- ② Touch **Traffic On Route**.
- ③ If necessary, touch the arrows to view other traffic delays on your route.
- ④ Touch  > **Avoid**.

### ■ Viewing the traffic map

- ① The traffic map shows color-coded traffic flow and delays on nearby.

### ■ About traffic

- Traffic service is not available in some areas or countries.
- Garmin and JVC KENWOOD are not responsible for the accuracy or timeliness of the traffic information.
- You can receive INRIX traffic information and weather forecast by connecting your iPhone or Android smartphone in which the "KENWOOD Traffic Powered By INRIX" application is installed.  
For details, see "KENWOOD Traffic Powered By INRIX" application.

### ■ Updating maps

You can purchase updated map data from Garmin.



- ① Go to [www.garmin.com/kenwood](http://www.garmin.com/kenwood).
- ② From the Map Updates section, select Update
- ③ Follow the on-screen instructions.

## Control audio from the navigation screen

You can control audio sources while the navigation screen is displayed.

Also, you can view the navigation information while the source control screen is displayed.

(P.14)

- 1 While playing the audio, touch  /  in the navigation screen.



Each time you touch the icon, the screen switches as follows.

Displays the navigation and control keys of the current source.



Displays the navigation and current video playback display.




### NOTE

- The screen switches between playback screen and view camera each time the viewing area is touched.



Returns to the full navigation screen.

### NOTE

- For details on control keys, refer to the instructions in each section.
-  : It does not appear if the control keys like AV-IN, etc. are not exist.
- Touching the source icon in the bottom of the screen displays the full audio screen.

## Navigation Setup

- 1 Press the **MENU** button.
  - Popup menu appears.
- 2 Touch **SETUP**.
  - SETUP Menu screen appears.
- 3 Touch **Navigation**.



- Navigation SETUP screen appears.

- 4 Set each item as follows.



### ■ NAV Mute

Mutes the volume of rear speakers during voice guidance of the navigation system. Default is "ON".

### ■ NAV Interrupt Speaker

Selects speakers used for voice guidance of the navigation system.

- **Front L**: Uses the front left side speaker for voice guidance.
- **Front R**: Uses the front right side speaker for voice guidance.
- **Front All** (Default): Uses both front speakers for voice guidance.

### ■ NAV Voice Volume

Adjusts the volume for voice guidance of the navigation system. Default is "24".

## KENWOOD Traffic Powered By INRIX

You can receive INRIX traffic information and weather forecast by connecting your iPhone or Android smartphone in which the "KENWOOD Traffic Powered By INRIX" application is installed to this unit.

### Preparation

- Install the latest version of the KENWOOD Traffic Powered By INRIX application on your iPhone or Android.
  - iPhone: Search for "KENWOOD Traffic Powered By INRIX" in the Apple App Store to find and install the most current version.
  - Android: Search for "KENWOOD Traffic Powered By INRIX" in Google play to find and install the most current version.
- For details, see "KENWOOD Traffic Powered By INRIX" application.

- 1 Register the Smartphone.

To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See **Register the Bluetooth device (P.56)** and **Connect the Bluetooth device (P.58)**.

- 2 Press the **NAV** button.



- Navigation screen appears.

- 2 Touch .

- Main Menu screen appears.

Touch **Apps** on the Main Menu screen and then an icon of your desired content.

For details, see Navigation system manual.

# Disc

## Playing a disc

### Insert a disc

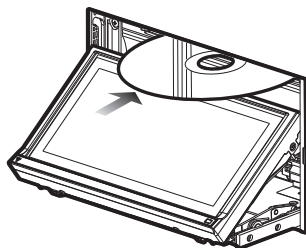
- 1 Press the **▲** button.



- 2 Touch **DISC EJECT**.

▶ The panel opens.

- 3 Insert the disc into the slot.



▶ The panel closes automatically.  
The unit loads the disc and playback starts.

### Eject a disc

- 1 Press the **▲** button.

- 2 Touch **DISC EJECT**.

When removing a disc, pull it horizontally.

- 3 Press the **▲** button.

## DVD/VCD Basic Operation

Most functions can be controlled from the source control screen and playback screen.

### NOTE

- Set the remote control mode switch to DVD mode before starting operation for DVD and VCD, see **Switch the operation mode (P.81)**.
- The screen shot below is for DVD. It may be different from the one for VCD.

- 1 When the operation buttons are not displayed on the screen, touch the **7** area.

### Control screen









### Video screen



### 1 Information display

Displays the following information.












- **Title #, Chapter #:** DVD title and chapter number display
- **Track #/Scene #:** VCD track or scene number display. Scene # is displayed only when Playback control (PBC) is on.
- **Linear PCM, etc.:** Audio format
- **Hide:** Hides the control screen.

- : Repeats the current content. Each time you touch the key, repeat mode switches in the following sequence;  
**DVD**: Title repeat (  ), Chapter repeat (  ), Repeat off (  )  
**VCD** (PBC On): Does not repeat  
**VCD** (PBC Off): Track repeat (  ), Repeat off (  )




## 2 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see **Function panel (P.21)**.

## 3 Play mode indicator/ Playing time

- , , , etc.: Current play mode indicator  
 The meanings of each icon are as follows;  (play),  (fast forward),  (fast backward),  (stop),  (resume stop),  (pause),  (slow playback),  (slow reverse playback).

## 4 Operation keys

- : Searches the previous/next content.  
 Touch and hold to fast forward or fast backward.
- : Plays or pauses.
- : Displays the Graphic Equalizer screen. (P.76)

## 5 Indicator Items

- **IN**: A disc is inserted.  
 White: A Disc is inside the unit.  
 Orange: Error at the disc player

### VCD

- **1chLL/2chLL**: Identifies the left audio output of channel 1 or 2.
- **1chLR/2chLR**: Identifies the monaural audio output of channel 1 or 2.
- **1chRR/2chRR**: Identifies the right audio output of channel 1 or 2.
- **1chST/2chST**: Identifies the stereo audio output of channel 1 or 2.
- **LL**: Identifies the left audio output.
- **LR**: Identifies the monaural audio output.
- **RR**: Identifies the right audio output.
- **ST**: Identifies the stereo audio output.
- **PBC**: The PBC function is on.
- **VER1**: The VCD version is 1.
- **VER2**: The VCD version is 2.

## 6 Searching area

Touch to search the next/previous content.

## 7 Key display area

Touch to display the control screen.

## 8 MENU CTRL (DVD only)

Touch to display the DVD-VIDEO disc menu control screen. See **DVD Disc Menu Operation (P.24)**.

### NOTE

- The control screen disappears when no operation is done for 5 seconds.
- If you use a remote control, you can jump directly to the desired image with entering the chapter number, scene number, play time, etc. (P.82).

## Function panel

### 1 Touch on the left side of the screen.



The functions of each key are as follows.



Stops playback. When touched twice, the disc is played from the beginning when you play it the next time.



Fast forward or fast backward. Each time you touch the key, the speed changes; 2 times, 8 times.

### or (DVD only)

Plays in slow motion forward or backward.

### SETUP (DVD only)

Touch to display the DVD SETUP screen. See **DVD Setup (P.25)**.

### MENU CTRL (DVD only)

Touch to display the DVD-VIDEO disc menu control screen. See **DVD Disc Menu Operation (P.24)**.

### PBC (VCD only)

Turn Playback control (PBC) on or off.

### Audio (VCD only)

Change the audio output channel.

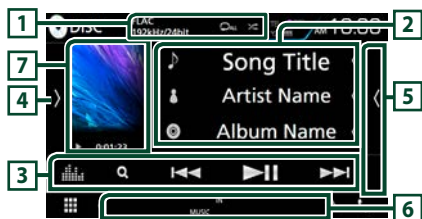
## Music CD/ Disc media Basic Operation

Most functions can be controlled from the source control screen and playback screen.

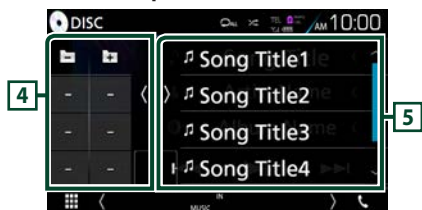
### NOTE

- Set the remote controller mode switch to AUD mode before starting operation for Music CD and audio files, see **Switch the operation mode (P.81)**.
- In this manual, "Music CD" will be referred to as the general CDs which include music tracks in. "Disc media" will be referred to as CD/DVD disc which includes audio or video files.
- The screen shot below is for disc media. It may be different from the one for CD.

### Control screen



### Open the drawer



### 1 CODEC / [Repeat] / [Repeat All]

- When a high-resolution source is played, its format information is displayed. (Disc media only)
- [Repeat]: Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence; Track/ File repeat ([Repeat]), Folder repeat ([Repeat]) (Disc media only), Repeat all ([Repeat All])

- [Shuffle]: Randomly plays all tracks in current folder/disc. Each time you touch the key, random mode switches in the following sequence; Track random ([Shuffle All]) (Music CD only), Folder random ([Shuffle]) (Disc media only), Random off ([Shuffle Off])

### 2 Track information

Displays the information of the current track/ file. Only a file name and a folder name are displayed if there is no tag information. (Disc media only)

### 3 Operation keys

- [Search] (Disc media only): Searches file. For details on search operation, see **File search Operation (P.23)**.
- [Previous/Next]: Searches the previous/next content. Touch and hold to fast forward or fast backward.
- [Play/Pause]: Plays or pauses.
- [Equalizer]: Displays the Graphic Equalizer screen. (P.76)

### 4 Function panel (Disc media only)

Touch on the left side of the screen to display the function panel. Touch again to close the panel.

- [Previous/Next Folder]: Searches previous/next folder.

### 5 Content list

- Touch on the right side of the screen to display the Content list. Touch again to close the list.
- Displays the playing list. When you touch a track/file name on the list, playback will start.

### 6 Indicator Items

- **IN**: A disc is inserted.  
White: A Disc is inside the unit.  
Orange: Error at the disc player
- **VIDEO**: Identifies the video file.
- **MUSIC**: Identifies the music file.

### 7 Artwork (Disc media only) /Play mode indicator/ Playing time

- The jacket of the currently playing file is displayed.
- [Play], [Fast Forward], etc.: Current play mode indicator  
The meanings of each icon are as follows; ▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), || (pause).

Video screen

**8 Searching file area (Video file only)**

Touch to search the next/previous file.

**9 Key display area (Video file only)**

Touch to display the control screen.

## File search Operation (Disc media only)

You can search a file according to hierarchy.

**NOTE**

- For operations in the list screen, see **List screen (P.15)**.

- 1 Touch **Q**.  
➤ Folder List screen appears.
- 2 Touch the desired folder.



- When you touch a folder its contents are displayed.

- 3 Touch desired item from the content list.  
➤ Playback starts.

## DVD Disc Menu Operation

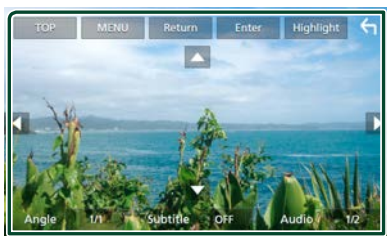
You can set up some items in the DVD-VIDEO disc menu.

### 1 Touch illustrated area during playback.



➤ Menu Control screen appears.

### 2 Perform desired operation as follows.



#### ■ Displays the top menu

Touch **TOP**.\*

#### ■ Displays the menu

Touch **MENU**.\*

#### ■ Displays the previous menu

Touch **Return**.\*

#### ■ Enters selected item

Touch **Enter**.

#### ■ Enables direct operation

Touch **Highlight** to enter the highlight control mode (P.24).

#### ■ Moves the cursor

Touch ▲, ▼, ◀, ▶.

#### ■ Switches the subtitle language

Touch **Subtitle**. Each time you touch this key, language is switched.

#### ■ Switches the audio language

Touch **Audio**. Each time you touch this key, language is switched.

#### ■ Switches the picture angle

Touch **Angle**. Each time you touch this key, picture angle is switched.

\*These keys may not function depending on the disc.

### ■ Highlight control

Highlight control lets you control the DVD menu by touching the menu key directly on the screen.

#### 1 Touch **Highlight** in the Menu Control screen.

#### 2 Touch desired item on the screen.



#### NOTE

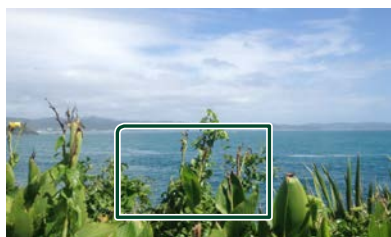
- The highlight control is cleared automatically if you do not operate for a constant time.



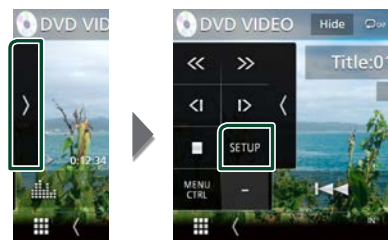
## DVD Setup

You can set up the DVD playback functions.

### 1 Touch illustrated area during playback.



### 2 Touch on the left side of the screen. Touch **SETUP**.



➤ DVD SETUP screen appears.

### 3 Set each item as follows.



#### ■ **Menu Language / Subtitle Language / Audio Language**

See **Language setup (P.25)**.

#### ■ **Dynamic Range Control**

Sets the dynamic range.

**Wide**: The dynamic range is wide.

**Normal**: The dynamic range is normal.

**Dialog** (Default): Makes the total sound volume larger than other modes. This is effective only when you are using Dolby Digital software.

#### ■ **Screen Ratio**

Sets the screen display mode.

**16:9** (Default): Displays wide pictures.

**4:3 LB**: Displays wide pictures in the Letter Box format (having black stripes at the top and bottom of screen).

**4:3 PS**: Displays wide pictures in the Pan & Scan format (showing pictures cut at the right and left ends).

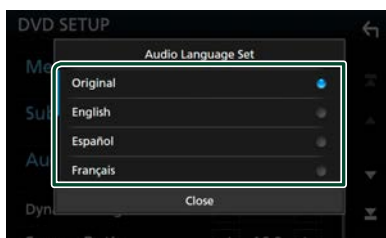
#### ■ **Language setup**

This setting is for the language used in the menu, subtitle, and voice.

### 1 Touch the desired item; **Menu Language, Subtitle Language, Audio Language.**

➤ Language Set screen appears.

### 2 Select a language.



For language code, refer to **DVD Language Codes (P.96)**.

Sets the entered language and returns to the DVD Setting screen.

#### NOTE

- To set the DVD's original language for audio language, touch **Original**.

# APPS—Android Auto™/Apple CarPlay

## Apple CarPlay Operation

CarPlay is a smarter, safer way to use your iPhone in the car. CarPlay takes the things you want to do with iPhone while driving and displays them on the screen of the product. You can get directions, make calls, send and receive messages, and listen to the music from iPhone while driving. You can also use Siri voice control to make it easier to operate iPhone.

For details about CarPlay, visit <https://ssl.apple.com/ios/carplay/>.

### Compatible iPhone devices

You can use CarPlay with the following iPhone models.

- iPhone 7 Plus
- iPhone 7
- iPhone SE
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5

## Preparation

### 1 Connect iPhone using KCA-iP103 via USB (Black) terminal. (P.90)

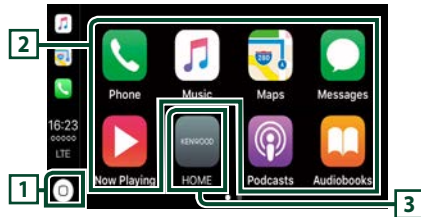
When iPhone compatible with CarPlay is connected to the USB (Black) terminal, the Bluetooth Hands-Free phone currently connected is disconnected.

### 2 Unlock your iPhone.

## Operation buttons and available Apps on the home screen of CarPlay

You can use the Apps of the connected iPhone. The items displayed and the language used on the screen differ among the connected devices.

To enter CarPlay mode, touch **Apple CarPlay** icon in the source selection screen. (P.13)



### 1

- Displays the home screen of CarPlay.
- Touch and hold to activate Siri.

### 2 Application buttons

Starts the application.

### 3 HOME


Exits the CarPlay screen and displays the Home screen.

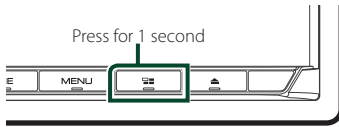
## To exit the CarPlay screen

### 1 Press the HOME button.

## Use Siri

You can activate Siri.

- 1 Press the  button for 1 second.



- 2 Talk to Siri.

### To deactivate

- 1 Press the  button.

## Switch to the Apple CarPlay screen while listening to another source

- 1 Press the  button.



### NOTE

- If sound is output using Apple CarPlay when the Apple CarPlay screen is displayed, the source is switched to Apple CarPlay.

## Android Auto™ Operation

Android Auto enables you to use functions of your Android device convenient for driving. You can easily access route guidance, make calls, listen to music, and access convenient functions on the Android device while driving. For details about Android Auto, visit <https://www.android.com/auto/> and <https://support.google.com/androidauto>.

### Compatible Android devices

You can use Android Auto with Android devices of Android version 5.0 (Lollipop) or later.

### NOTE

- Android Auto may not be available on all devices and is not available in all countries or regions.

## Preparation

- 1 Connect an Android device via USB terminal. (*P.90*)

To use the hands-free function, connect the Android device via Bluetooth.

When an Android device compatible with Android Auto is connected to the USB terminal, the device is connected via Bluetooth automatically, and the Bluetooth Hands-Free phone currently connected is disconnected.

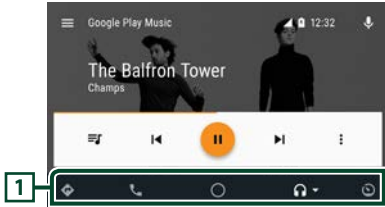
- 2 Unlock your Android device.

## Operation buttons and available Apps on the Android Auto screen

You can perform the operations of the Apps of the connected Android device.

The items displayed on the screen differ among the connected Android devices.

To enter Android Auto mode, touch **Android Auto** icon in the source selection screen. (P.13)




### 1 Application/information buttons

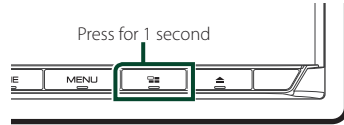
Starts the application or displays information.

### To exit the Android Auto screen

- 1 Press the **HOME** button.

## Using voice control

- 1 Press the  button for 1 second.



### To cancel

- 1 Press the  button.

## Switch to the Android Auto screen while listening to another source

- 1 Press the  button.



### NOTE

- If sound is output using Android Auto when the Android Auto screen is displayed, the source is switched to Android Auto.

## WebLink™/Waze Operation

You can display and control the App on the unit while your smartphone is connected to the USB terminal.

### Available Apps

You can use the following Apps on this unit. Install the Apps on your smartphone beforehand.

#### WebLink™

WebLink™ enables you to use the following Apps with the unit.

- Media player
- Waze
- Yelp
- YouTube
- OpenWeatherMap

#### Waze

Waze is the world's largest community based traffic and navigation App. Join other drivers in your area who share real-time traffic and road info, saving everyone time and gas money on their daily commute.

- To use Waze on the unit, you need to install WebLink™ and Waze on your smartphone beforehand.

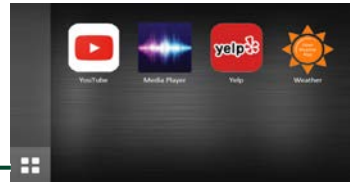
### 1 Connecting a smartphone

- Connect an Android device via USB terminal. **(P.90)**
- Connect iPhone using KCA-iP103 via USB (Black) terminal. **(P.90)**
- When the smartphone is connected to the unit, a confirmation message to communicate each other appears on the smartphone. Touch **Allow** to establish connection, or **Ignore** to cancel the connection.
- You can check the connection status on the WebLink™ screen on your smartphone.

### Operation buttons and available Apps on the App screen

To enter WebLink™ or Waze mode, touch **WebLink** or **Waze** icon in the source selection screen. **(P.13)**

WebLink source screen



Displays the main menu of the “WebLink” source screen.



Returns to the previous screen.

### 2 Operate on your smartphone.

- When you are asked to communicate between your smartphone and the unit, touch **Allow** to proceed.

### Switching to the App screen while listening to the another source

#### 1 Press the button.

#### NOTE

- If sound is output using WebLink when the App screen is displayed, the source is switched to WebLink.

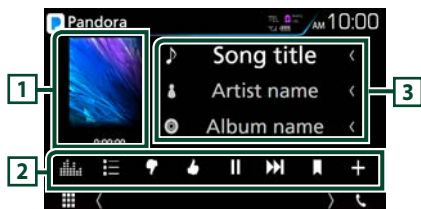
## Pandora® Operation

You can listen to the Pandora® on this unit by controlling the application installed in the iPhone or Bluetooth device.

To enter Pandora source, touch **Pandora** icon in the source selection screen. (P.13)

### Preparation

- Install the latest version of the Pandora® application on your iPhone, Android or BlackBerry.
- iPhone:** Search for "Pandora" in the Apple App Store to find and install the most current version.
- Android:** Visit the Google play and search for Pandora to install.
- BlackBerry:** Visit www.pandora.com from the built in browser to download the Pandora application.
- iPhones are connected on either USB or Bluetooth.
- Android or BlackBerry devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See **Register the Bluetooth device (P.56)** and **Connect the Bluetooth device (P.58)**.



### 1 Artwork/ Playing time

- The picture data is displayed if available from current content.
- For confirmation of play time.

### 2 Operation keys

- : Searches for a station. For details on searching, see **Station list screen (P.30)**.
- (Thumbs down) : Thumbs down to the current contents and skip to the next contents.
- (Thumbs up) : Registers the current contents as favorite content.
- : Plays or pauses the content of the current station.

- : Skips the current song. (Note this function is disabled when the Pandora skip limitation is exceeded.)
- (Bookmark Song) : Bookmarks a song in the current contents.
- : Creates a new station. See **Creates a new station (P.31)**.
- : Displays the Graphic Equalizer screen. (P.76)

### 3 Content information

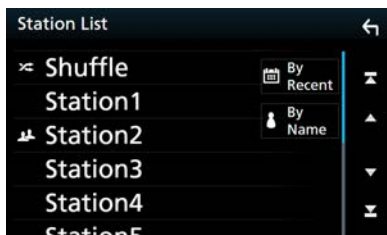
Displays the information of the current content being played.

## Station list screen

You can perform the following functions from this screen.

### 1 Touch .

> Station List screen appears.



### ■ Selects the station

Touch the station name in the list.

### ■ Sort the list by registered date

Touch **By Recent**. The list is sorted to begin with the last registered station.

### ■ Sort the list in alphabetical order

Touch **By Name**. You can select the desired letter from the list which corresponds to the station name to help narrow the search.

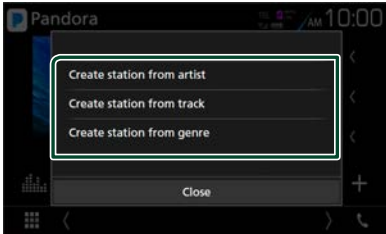
### NOTE

- You can operate Pandora by using the remote control. However, only playing, pausing, and skipping are available.

## Creates a new station

1 Touch **+**.

2 Touch desired item.



### ■ Create station from artist

Creates a new station based on an artist being played.

### ■ Create station from track

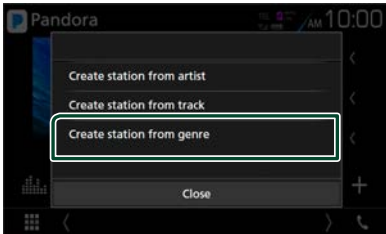
Creates a new station based on a song being played.

### ■ Create station from genre

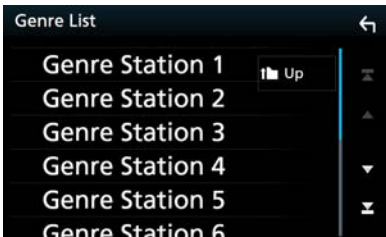
Displays the genre list screen.

## Genre list screen

1 Touch **Create station from genre**.



2 The selected genre is created as a new station.



## About Pandora®

### NOTE

- In the application on your device, log in and create an account with Pandora. (If you are not already a registered user, an account can also be created at [www.pandora.com](http://www.pandora.com).)
- Establish an Internet connection.
- Pandora is only available in certain countries. Please visit <http://www.pandora.com/legal> for more information.
- Because Pandora® is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora® at [pandora-support@pandora.com](mailto:pandora-support@pandora.com).

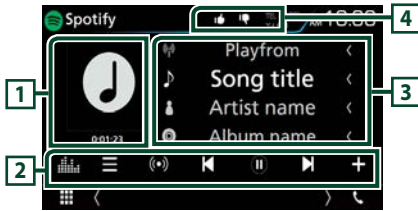
## Spotify Operation

You can listen to the Spotify on this unit by controlling the application installed in the iPhone or Android.

To enter Spotify source, touch **Spotify** icon in the source selection screen. (P.13)

### Preparation

- Install the latest version of the Spotify application "Spotify" on your iPhone or Android.
- **iPhone:** Search for "Spotify" in the Apple App Store to find and install the most current version.
- **Android:** Search for "Spotify" in Google play to find and install the most current version.
- iPhones are connected on either USB or Bluetooth.
- Android devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See **Register the Bluetooth device (P.56)** and **Connect the Bluetooth device (P.58)**.



### 1 Artwork/ Playing time

- The picture data is displayed if available from current content.
- For confirmation of play time.

### 2 Operation keys

- : Displays the Menu screen
- : New radio station that relates to the artist of the currently playing song is selected and playback starts.
- , : Skips the current song.
- : Plays or pauses the content of the current station.
- : Saves currently playing song to My Music.
- : Displays the Graphic Equalizer screen. (P.76)

### 3 Content information

Displays the information of the current content being played.



- : Thumbs down to the current contents and skip to the next contents.
- : Registers the current contents as favorite content.
- : Repeats the current song.
- : Randomly plays all song in current playlist.

### Selecting a track

- 1 Touch .  
 > Menu screen appears.
- 2 Select the list type, then select a desired item.



### Selects the category and station

Touch the category and station name in the list.

#### Top

Returns to the first hierarchy of the list.

#### Up

Returns to the previous list.



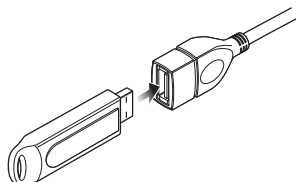
**About Spotify®****Note**


- Ensure you are logged in to your smartphone application. If you do not have an Spotify account, you can create one for free from your smartphone or at [www.spotify.com](http://www.spotify.com).
- Because Spotify is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Spotify cannot be operated from this unit.
- For issues using the application, contact Spotify at [www.spotify.com](http://www.spotify.com).
- Establish an Internet connection.

## USB/microSD

### Connecting a USB device

- 1 Connect the USB device with the USB cable. (P.89)



- 2 Press the **HOME** button.
- 3 Touch .
- 4 Touch **USB**. (P.13)

### Disconnect the USB device

- 1 Press the **HOME** button.
- 2 Touch a source other than **USB**.
- 3 Detach the USB device.

### Usable USB device

You can use a mass-storage-class USB device on this unit.

The word “USB device” appearing in this manual indicates a flash memory device.

#### ● About file system

The file system should be the one of the following.

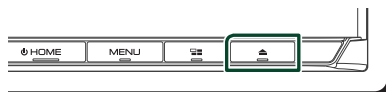
- FAT16
- FAT32
- exFAT
- NTFS

#### NOTE

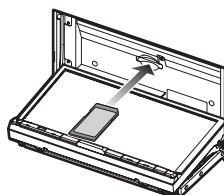
- Install the USB device in the place where it will not affect safe driving.
- You cannot connect a USB device via a USB hub and Multi Card Reader.
- Take backups of the audio files used with this unit. The files can be erased depending on the operating conditions of the USB device. We shall have no compensation for any damage arising from any erased data.



### Inserting the microSD

- 1 Press the  button.





- 2 Touch **OPEN** to the panel fully opens.
- 3 Insert the SD card into the slot until it clicks.



- 4 Press the  button.
- 5 Press the **HOME** button.
- 6 Touch .
- 7 Touch **SD**. (P.13)

### Remove the microSD

- 1 Press the  button.
- 2 Touch **OPEN** to the panel fully opens.
- 3 Push the SD card until it clicks and then remove your finger from the card. The card pops up so that you can pull it out with your fingers.
- 4 Press the  button.

### Usable SD card.

The unit is capable of playback of microSD/ microSDHC/ microSDXC memory cards complying with the SD, SDHC or SDXC standard.

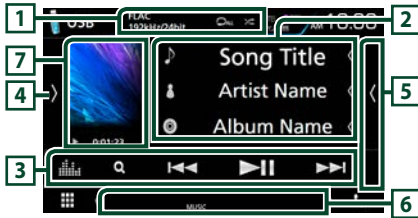
## USB/microSD Basic Operation

Most functions can be controlled from the source control screen and playback screen.

### NOTE

- Set the remote controller mode switch to AUD mode before starting operation, see **Switch the operation mode (P.81)**.

### Control screen



### Open the drawer



### 1 CODEC / [Repeat] / [Shuffle]

- When a high-resolution source is played, its format information is displayed.
- [Repeat]: Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence; File repeat ([Repeat]), Folder repeat ([Folder]), Repeat all ([All]).
- [Shuffle]: Randomly plays all tracks in current folder. Each time you touch the key, random mode switches in the following sequence; File random ([Random]), Random off ([Off]).

### 2 Track information

Displays the information of the current file. Only a file name and a folder name are displayed if there is no tag information.

### 3 Operation keys

- [Search]: Searches track/file. For details on search operation, see **Search Operation (P.36)**.
- [Fast Forward/Backward]: Searches the previous/next track/file.

Touch and hold to fast forward or fast backward.

- [Play/Pause]: Plays or pauses.
- [Equalizer]: Displays the Graphic Equalizer screen. **(P.76)**

### 4 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel.

- [Previous/Next Folder]: Searches previous/next folder.

### • USB DEVICE CHANGE:

Switches to another USB device when two USB devices are connected.

### 5 Content list

- Touch on the right side of the screen to display the Content list. Touch again to close the list.
- Displays the playing list. When you touch a track/file name on the list, playback will start.

### 6 Indicator Items

- VIDEO**: Identifies the video file.
- MUSIC**: Identifies the music file.

### 7 Artwork/ Play mode indicator/ Playing time

The jacket of the currently playing file is displayed.

- [Play/Play/Pause/etc.]: Current play mode indicator. The meanings of each icon are as follows; ▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), || (pause).

### Video screen



### 8 Searching file area (Video file only)

Touch to search the next/previous file.

### 9 Key display area (Video file only)

Touch to display the control screen.

## Search Operation

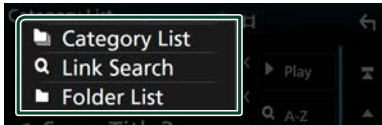
You can search music or video files by the following operations.

1 Touch **Q**.

2 Touch **▼**.



3 Select the list type.



### NOTE

• For operations in the list screen, see **List screen (P.15)**.

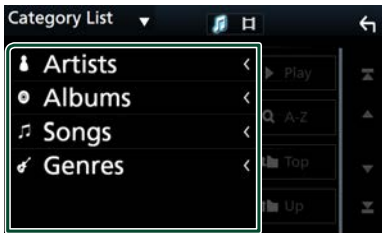
## Category search

You can search a file by selecting category.

1 Touch **Category List**.

2 Select whether you search by audio files **🎵** or video files **📺**.

3 Touch the desired category.



➤ The list corresponding to your selection appears.

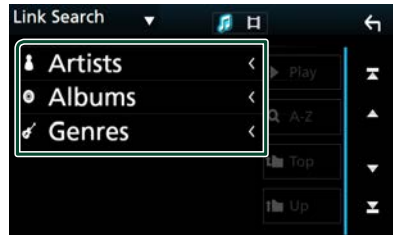
4 Touch to select desired item in the list. Repeat this step until you find the desired file.

## Link search

You can search a file of same artist/album/genre as the current track.

1 Touch **Link Search**.

2 Touch the desired tag type. You can select from artists, albums and genres.



➤ The list corresponding to your selection appears.

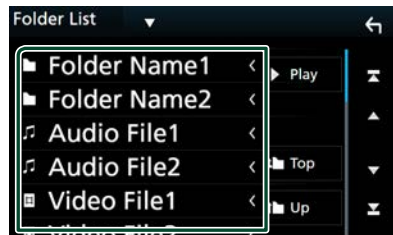
3 Touch desired item from the content list.

## Folder search

You can search a file according to hierarchy.

1 Touch **Folder List**.

2 Touch the desired folder.



When you touch a folder its contents are displayed.

3 Touch to select desired item in the list. Repeat this step until you find the desired file.

# iPod/iPhone

## Preparation

### Connectable iPod/iPhone

The following models can be connected to this unit.

Made for

- iPhone 7 Plus
- iPhone 7
- iPhone SE
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch (6th generation)
- iPod touch (5th generation)

#### NOTE

- Latest compatible list of iPod/iPhone. For details, see [www.kenwood.com/cs/ce/ipod/](http://www.kenwood.com/cs/ce/ipod/).
- By connecting your iPod/iPhone to this unit with an optional accessory iPod connection cable KCA-iP103, you can supply power to your iPod/iPhone as well as charge it while playing music. However, the power of this unit must be on.
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.

### Connect iPod/iPhone

#### Wired connection

##### Preparation

- Connect an iPod/iPhone with the KCA-iP103 (optional accessory) while CarPlay is not connected.
- With a CarPlay-capable iPhone, turn off CarPlay by operating the iPhone at functional setup before connecting iPhone. For details of the setup method, contact the manufacturer of the terminal.
- Plug the iPod/iPhone into the gray USB terminal with the KCA-iP103 (optional accessory).
- Only one iPod/iPhone can be connected.

#### 1 Connect the iPod/iPhone using KCA-iP103. (P.90)

#### 2 Press the **HOME** button.

#### 3 Touch .

#### 4 Touch **iPod**. (P.13)

#### ● To disconnect the iPod/iPhone connected with the cable:

#### 1 Detach the iPod/iPhone.

#### Bluetooth connection

Pair the iPhone through Bluetooth.

##### Preparation

- To connect an iPhone via Bluetooth, register it as the Bluetooth device and do the profile setting of the connection beforehand. See **Register the Bluetooth device (P.56)** and **Connect the Bluetooth device (P.58)**.
- Connect an iPhone on Bluetooth while CarPlay and an iPod/iPhone are not connected on USB.

## iPod/iPhone Basic Operation

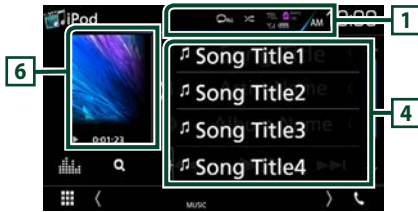
### NOTE

- Set the remote controller mode switch to AUD mode before starting operation, see **Switch the operation mode (P.81)**.

### Control screen



### Open the drawer



### 1 [Repeat/Random] / [Repeat/Random]

- [Repeat]**: Repeats the current track/album. Each time you touch the key, repeat mode switches in the following sequence; Song repeat ( [Repeat] ), All songs repeat ( [Repeat] )
- [Random]**: Randomly plays all tracks in current album. Each time you touch the key, random mode switches in the following sequence; Song random ( [Random] ), Random off ( [Random] )

### 2 Track information

- Displays the information of the current file.
- Touch to display the category list screen. See **Category search (P.39)**.

### 3 Operation keys

- [Search]**: Searches track/file. For details on search operation, see **Search Operation (P.39)**.
- [Fast Backward]** **[Fast Forward]**: Searches the previous/next track/file. Touch and hold to fast forward or fast backward.
- [Play/Pause]**: Plays or pauses.
- [Graphic Equalizer]**: Displays the Graphic Equalizer screen. **(P.76)**

### 4 Content list

- Touch on the right side of the screen to display the Content list. Touch again to close the list.
- Displays the playing list. When you touch a track/file name on the list, playback will start.

### 5 Indicator Items

- MUSIC**: Identifies the music file.

### 6 Artwork/ Play mode indicator/ Playing time

The jacket of the currently playing file is displayed.

- [Play/Pause]**, etc.: Current play mode indicator  
The meanings of each icon are as follows;  
▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), || (pause).

## Search Operation

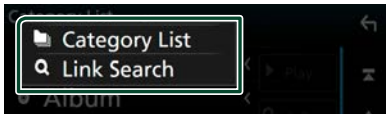
You can search music files by the following operations.

1 Touch **Q**.

2 Touch **▼**.



3 Select the list type.



### NOTE

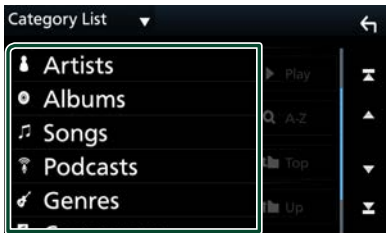
- For operations in the list screen, see [List screen \(P.15\)](#).

## Category search

You can search a file by selecting category.

1 Touch **Category List**.

2 Touch the desired category.



- The list corresponding to your selection appears.

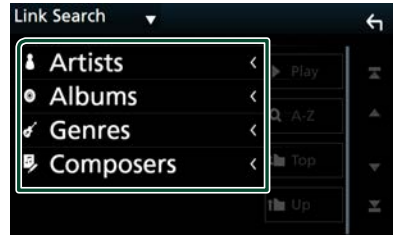
3 Touch to select desired item in the list.  
Repeat this step until you find the desired file.

## Link search

You can search a file of same artist/album/genre/composer as the current track.

1 Touch **Link Search**.

2 Touch the desired tag type. You can select from artists, albums, genres and composers.



- The list corresponding to your selection appears.

3 Touch desired item from the content list.

# Radio

## Radio Basic Operation

Most functions can be controlled from the source control screen.

To enter Radio source, touch **Radio** icon in the source selection screen. (P.13)

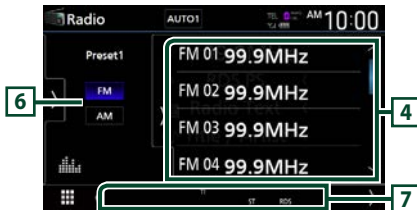
### NOTE

- Set the remote controller mode switch to AUD mode before starting operation, see **Switch the operation mode (P.81)**.

Control screen




Preset list screen



### 1 Information display

Displays the information of the current station: Frequency and Channel

Touching  allows you to switch between Content A and Content B.

Content A: PS name, Radio Text, Title & Artist  
Content B: PTY Genre, Radio Text plus



**Preset#:** Preset number

### 2 Seek mode

Switches the seek mode in the following sequence; **AUTO1**, **AUTO2**, **MANUAL**.

- AUTO1**: Tunes in a station with good reception automatically.
- AUTO2**: Tunes in stations in memory one after another.
- MANUAL**: Switches to the next frequency manually.

### 3 Operation keys

- : Tunes in a station. The method of frequency switching can be changed (see 2 in table).
- : Displays the Graphic Equalizer screen. (P.76)

### 4 Preset list

- Recalls the memorized station or channel.
- When touched for 2 seconds, stores the current receiving station or channel in memory.
- Touch on the right side of the screen to display the Preset list. Touch again to close the list.

### 5 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see **Function panel (P.41)**.

### 6 Band button

Switches the band (FM, AM).

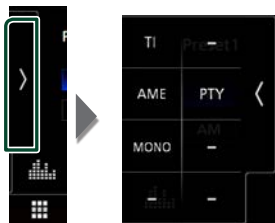
### 7 Indicator Items

- ST**: A stereo broadcast is being received.
- MONO**: The forced monaural function is on.
- TI**: Indicates the reception state of traffic information.
  - White: TP is being received.
  - Orange: TP is not being received.



## Function panel

- 1 Touch  on the left side of the screen.



The functions of each key are as follows.

### TI (FM only)

Sets the traffic information mode on. For details, see **Traffic Information (P.42)**.

### AME

Presets stations automatically. For details, see **Auto memory (P.41)**.

### PTY (FM only)

Searches a program by setting program type. For details, see **Search by program type (P.42)**.

### MONO (FM only)

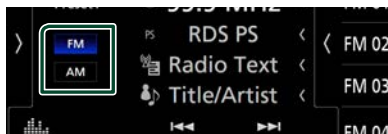
Select the Monaural reception.


## Memory Operation

### Auto memory

You can store stations with good reception in memory automatically.

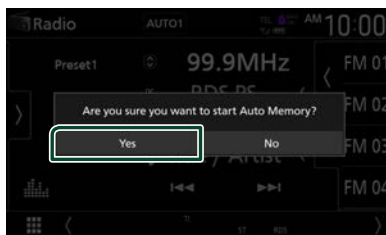
- 1 Touch desired band key.



- 2 Touch  on the left side of the screen. Touch **AME**.



- 3 Touch **Yes**.



➤ Auto memory starts.

### Manual memory


You can store the current receiving station or channel in memory.

- 1 Select a station or channel you wish to store in memory.
- 2 Touch **FM#** (#:1-15) or **AM#** (#:1-5) in which you want to store the station or channel for 2 seconds until a beep sounds.

## Selecting Operation

### Preset select


You can list and select memorized station or channel.

- 1 Touch  on the right side of the screen. Select a station or channel from the list.



### Search by program type (FM only)

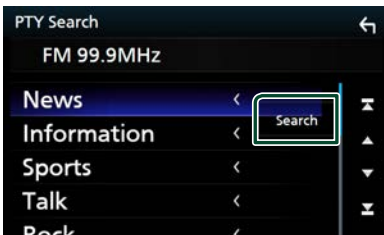
You can tune to a station with a specific program type when listening to FM.

- 1 Touch  on the left side of the screen. Touch **PTY**.



➤ TUNER PTY Mode screen appears.


- 2 Select a program type from the list.
- 3 Touch **Search**.



You can search a station of the selected program type.

## Traffic Information (FM only)

You can listen and watch the traffic information automatically when a traffic bulletin starts. However, this feature requires a Radio Broadcast Data System that includes the TI information.

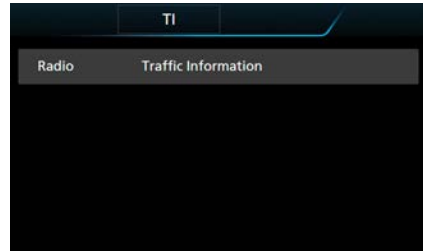
- 1 Touch  on the left side of the screen. Touch **TI**.



➤ Traffic information mode is set.

### When the traffic bulletin starts

The Traffic Information screen appears automatically.



- It is necessary to have Traffic Information function set to on in order to have the Traffic Information screen appear automatically.
- The volume setting during reception of traffic information is automatically stored. The next time the traffic information is received, this unit recalls the volume setting automatically.

# SiriusXM®

## SiriusXM® Basic Operation

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit [www.siriusxm.com](http://www.siriusxm.com).

To enter SiriusXM source, touch **SiriusXM** icon in the source selection screen. (P.13)

### Activating subscription

- Check your Radio ID.  
The SiriusXM Satellite Radio ID is required for activation and can be found by tuning to Channel 0 as well as on the label found on the SiriusXM Connect tuner and its packaging.  
The Radio ID does not include the letters I, O, S or F.
- Activate the SiriusXM Connect Vehicle Tuner using one of the two methods below:
  - For users in the U.S.A.  
Online: Visit [www.siriusxm.com/activatenow](http://www.siriusxm.com/activatenow)  
Phone: Call SiriusXM Listener Care at 1-866-635-2349
  - For users in Canada:  
Online: Visit <http://www.siriusxm.ca/help/activation-help/>  
Phone: Call XM customer Care at 1-877-438-9677

### NOTE

- Set the remote control mode switch to AUD mode before starting operation, see **Switch the operation mode (P.81)**.
- To use SiriusXM® Satellite Radio, the optional accessory is necessary.

### Control screen



### Preset list screen



#### 1 Indicator display

Displays the “Mix” (TuneMix™), “Scan” (TuneScan™), (Traffic&Weather), (SportsFlash™) indicator and the received signal strength of the SiriusXM tuner.

#### 2 Information display

Displays the information of the current channel:  
Channel Name

**P#:** Preset number

**#CH:** Channel display

**Logo:** Channel logo

Touching allows you to switch between Content A, Content B and Content C.

Content A: Artist Name, Song Title

Content B: Content Info, Category Name

Content C: Channel Description, Similar Channels

: Touch for 2 seconds to register the artist of the current song as a Content Alert.

: Touch for 2 seconds to register the current song as a Content Alert.

For details, see **Content Alerts (P.48)**.

#### 3 Band button

Switches the band. (SXM1/ SXM2/ SXM3/ SXM4)

#### 4 Operation keys

- **Q** : Display the Category search screen. For details on search operation, see **Category/Channel search (P.46)**.
- **▶||** : Plays or pauses. See **Replay (P.46)**.
- **CH▼ CH▲** : Selects a channel.
- **📊** : Displays the Graphic Equalizer screen. (P.76)

#### 5 Preset list

- Recalls the memorized channel.
- When touched for 2 seconds, stores the current receiving channel in memory.
- Touch on the right side of the screen to display the Preset list. Touch again to close the list.

#### 6 Function panel

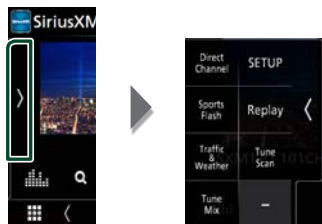
Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see **Function panel (P.44)**.

#### 7 Artwork

Display album artwork for most SiriusXM music channels

### Function panel

- 1 Touch **☰** on the left side of the screen.



The functions of each key are as follows.

#### Direct Channel

Touch and enter the desired number. For details, see **Direct search (P.45)**.

#### SETUP

Touch to display the SiriusXM SETUP screen. For details, see **SiriusXM Setup (P.49)**.

#### Replay / Live

Turns the replay mode on or off. See **Replay (P.46)**.

### Traffic & Weather

#### For SXV300 \*1

Traffic & Weather Now™ allows you to access the latest report whenever you want to hear it. Select your city at the set up menu **Select a City for Traffic & Weather (P.54)** and press the **Traffic & Weather** button to check the latest report. It will start from the beginning.

- **☰** (White) : Played already.
- **🌿** (Green) : New information arrived.
- **🎵** (Purple) : Playing.
- **🌫** (Gray) : No information.

#### For SXV200 or SXV100 \*2

Turns the Traffic & Weather Jump function on or off.

- **☰** (White) : Function on.
- **🎵** (Purple) : Playing.
- **🌫** (Gray) : Function off.

#### TuneScan \*3

Hear a few seconds of the songs from each of the SmartFavorite music channels on the current preset band. See **TuneScan™ (P.47)**.

#### TuneMix \*4

When you turn it ON, the preset channels on P1-P6 are shuffled to provide a playback which is a blend of songs from your favorite channels. See **TuneMix™ (P.47)**.

#### SportsFlash \*4

Displays during SportsFlash™. To cancel the SportsFlash interruption and return to the previous channel, touch it. See **SportsFlash™ (P.49)** and **SportsFlash™ setup (P.53)**.

\*1 Compatible with SXV300 or later tuner models. It may take a few minutes after power on to get the first full report for your city. Traffic channels are not available in Canada.

\*2 When SXV200 or SXV100 is connected with this unit.

\*3 Compatible with SXV200 or later tuner models.

\*4 Compatible with SXV300 or later tuner models.

## Storing Channels in Preset Memory

You can store the current channel in memory.

- 1 Tune to a channel you wish to store in memory.
- 2 Touch **>** on the right side of the screen.



- 3 Touch and hold for 2 seconds (until you hear a beep) the preset number **SXM(1-4) P(1-6)** in which you want to store the channel.

## Preset select

You can list and select memorized station or channel.

### To select from the preset list

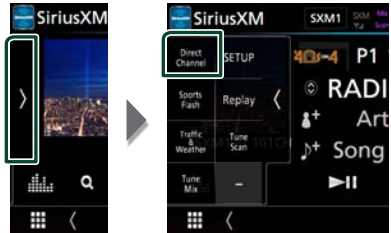
- 1 Touch **<** on the right side of the screen. Select a channel from the list.



## Direct search

You can tune to a channel directly.

- 1 Touch **>** on the left side of the screen. Touch **Direct Channel**.



- 2 Enter the channel number and touch **Enter**.



### NOTE

- To clear the number you entered, touch **BS**.

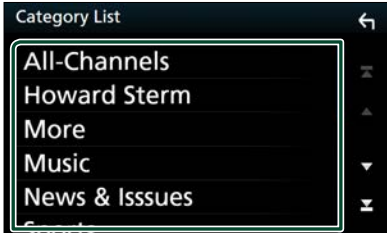
## Category/Channel search

You can specify the desired category and select a channel.

### 1 Touch **Q**.

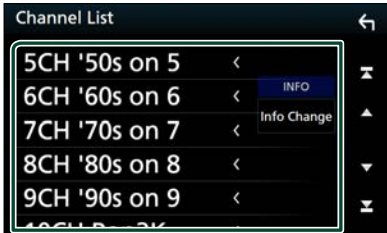


### 2 Select a category.



➤ Channel list appears.

### 3 Select the desired content from the list.



#### NOTE

- All the channels in the selected category appear.
- Touching **All-Channels** displays all the channels.
- Touch **Info Change** in the channel list. Select a desired item.  
Content info, Channel name, artist name, song title, category name
- Categories which have the prefix "Featured -" are Featured Favorites.
- Featured Favorites are groups of channels that are created by the SiriusXM Programming department allowing you to discover new channels. Featured Favorite channels are dynamic and can change often, allowing you to discover new channels.
  - You can set whether to be notified when the featured seasonal theme is updated. **(P.54)**

## Replay

You can replay the last 60 minutes of the current channel.

### 1 Touch **▶II** or **Replay** on the function panel.



Press to skip to the previous/next track.  
Press and hold to rewind or fast forward.



Plays or pauses.

#### ■ **Replay time bar/ Play mode indicator**

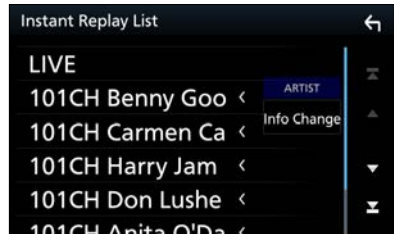
Display recorded capacity and playback position.

▶, ▶▶, etc.: Current play mode indicator



Display a list of recorded data on a program basis.

### 2 Touch **Q** to display an Instant Replay list.



#### ■ **Instant Replay List**

Touching this plays back the displayed program.

**LIVE**: To return to live

#### ■ **Info Change**

Touch **Info Change**. Select a desired item.  
Content info, channel name, artist name, song title, category name

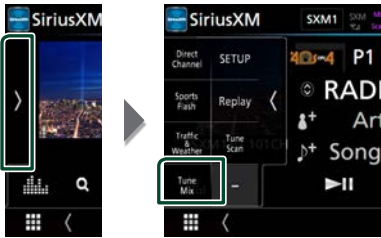
### To return to live music/content

- 1 Touch **>** on the left side of the screen.
- 2 Touch **Live**.

### TuneMix™

TuneMix™ plays a unique blend of songs from your Preset music channels from the current SiriusXM Preset Band, allowing you to build a custom channel from as few as two to as many as 6 music channels. You can even skip songs you don't want to hear.

- 1 Touch **>** on the left side of the screen. Touch **TuneMix** to set ON or OFF.



#### NOTE

- Compatible with SXV300 or later tuner models.

### SmartFavorites, TuneStart™

Preset channels 1 through 6 of the current band are SmartFavorites channels.

The SiriusXM Vehicle Tuner automatically buffers the broadcast audio content of the SmartFavorites channels in the background.

You can rewind and replay up to 30 minutes of any of the missed news, talk, sports or music content when you tune to a SmartFavorites channel. (see **Replay (P.46)**)

When tuning from a SmartFavorites channel, songs will play from the beginning of each track (TuneStart™). You can enable/disable TuneStart. (see **TuneStart™ (P.54)**)

#### NOTE

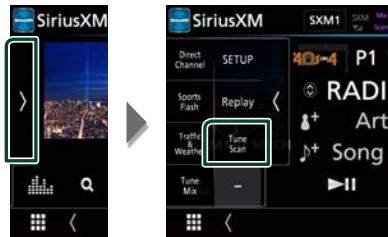
- Compatible with SXV200 or later tuner models.

### TuneScan™

TuneScan™ is a feature that plays samples from the starts of multiple buffered songs from each of the SmartFavorites channels that predominantly play music selections.

You have easy access to a large sampling of music content and can enjoy hearing a full song when stopping the scan on a song of interest.

- 1 Touch **>** on the left side of the screen.



- 2 Touch **TuneScan** to begin scanning your SmartFavorites channels.

You will hear a few seconds of the songs from each of the SmartFavorite channels.

- 3 Touch **TuneScan** again while your favorite song is being played to start listening to that song.



- Scan finishes and continues playing the song.

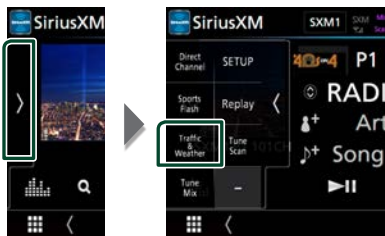
#### NOTE

- To cancel TuneScan™, Touch on the left side of the screen. Touch **TuneScan**.
- Touch and hold **TuneScan** to cancel TuneScan, the channel before starting TuneScan will be played.
- Compatible with SXV200 or later tuner models.

## Traffic & Weather Now™

Traffic & Weather Now™ allows you to access the latest report whenever you want to hear it. Select your city at the set up menu **Select a City for Traffic & Weather (P.54)**.





- 1 Touch  on the left side of the screen.



- 2 Touch **Traffic & Weather**.

The report starts from the beginning. To stop and return to the previous channel, touch it again.

### Indicator display

-  (White) : Played already.
-  (Green) : New information arrived.
-  (Purple) : Playing.
-  (Gray) : No information.

### NOTE

- Compatible with SXV300 or later tuner models.

## Content Alerts

When a broadcast program related to the registered artist, song or team starts, an Alert Content List screen appears to allow you to switch the current channel to the relevant channel.

- 1 When the broadcast of the registered content starts, an Alert Content List screen appears.



- 2 Select a content from the list.

### NOTE

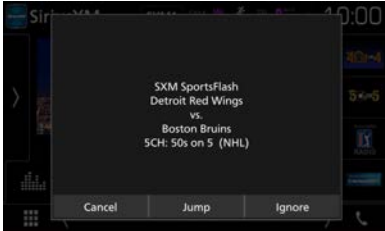
- Touch **Info Change**. Select a desired item. Artist Alert, Song Alert, GameAlert™
- To learn how to register artists and songs for the Content Alert function, see 2. Information display of **SiriusXM® Basic Operation (P.43)**.
- To learn how to set up the Content Alerts function and select Teams for alerts, see **Content Alerts setup (P.52)**.



## SportsFlash™

SportsFlash™ will notify you when a big play happens during a game with one of your favorite sports teams. Choose to tune in and hear the play unfold like it was live. Continue listening to the game, or you can return to your previous channel.

- 1 When a big play happens during one of the games, an Alert screen appears.



### ■ Jump

Touch to tune to that channel and play back the big play.

### ■ Ignore

Touch to cancel this specific Sports Flash Alert. Touching **Ignore** will ignore this specific alert but will allow future alerts for this game.

### ■ Cancel

Touch to cancel the SportsFlash alert. No alerts from this game will be displayed afterward.

## NOTE

- Compatible with SXV300 or later tuner models.
- To learn how to set up the SportsFlash alert function, see **SportsFlash™ setup (P.53)**.

## SiriusXM Setup

- 1 Touch **>** on the left side of the screen. Touch **SETUP**.



- SiriusXM SETUP screen appears.

See the following sections for each setting.

- Set up the parental code (**P.50**)
- Set up the Parental Control (**P.50**)
- Set up the skip channel select (**P.51**)
- Set up the Content Alerts (**P.52**)
- Set up the teams for SportsFlash™ (**P.53**)
- Select the city for Traffic & Weather Jump or Traffic & Weather Now™ (**P.54**)
- Select the Featured Bands Update Messages (**P.54**)
- Set up the TuneStart™ (**P.54**)
- Reset to the default settings (**P.54**)

## Parental code

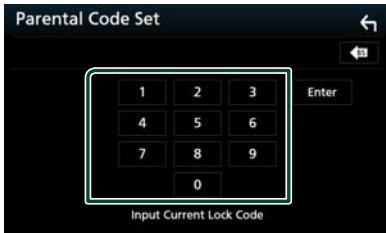
You can set a SiriusXM parental code for Parental Control.

- 1 Touch **Parental Code** in the SiriusXM SETUP screen.
  - Parental Pass Check screen appears.

### NOTE

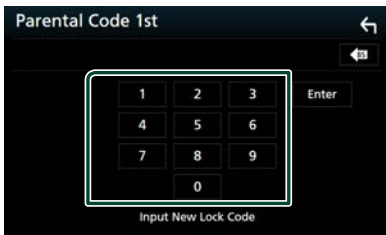
- The code number is set to "0000" as default.

- 2 Enter the current code number and touch **Enter**.



- Parental Pass 1st entering screen appears.

- 3 Enter the new code number and touch **Enter**.



- Parental Pass 2nd entering screen appears.

- 4 Enter the same code number as you input in step 3 and touch **Enter**.

- The code number is confirmed and SiriusXM parental code is now set.

## Parental Control

Parental Control is a feature that provides the user with the ability to prevent unauthorized access to mature content and user selected channels.

- 1 Touch **Parental Control** in the SiriusXM SETUP screen.

- 2 Touch **Mature, User or OFF**.

### OFF

Deactivates the parental mature and user locks.

### Mature

Locks channels classified as "mature" only.

### User

Locks only the selected channels.

- 3 Enter the parental code you originally input in **Parental code (P.50)** and touch **Enter**.

### When selecting User

This allows you to limit access to any SiriusXM channel (Parental Lock Channel).

- 1 Touch **Parental Lock Channel Selection** in the SiriusXM SETUP screen.

- Parental Pass Check screen appears.

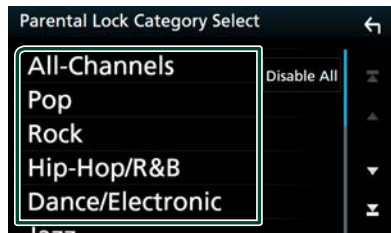
### NOTE

- You need to set up a **Parental code (P.50)** beforehand.

- 2 Enter the parental code you originally input in **Parental code (P.50)** and touch **Enter**.

- Parental Lock Category Select screen appears.

- 3 Touch the desired category from the list.



- Displays all the channels in the selected category.

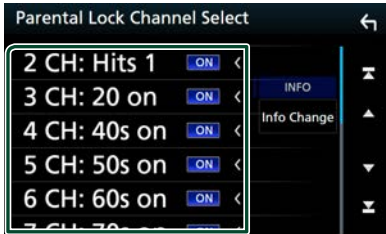
**NOTE**

- Touch **All-Channels** to display all the channels.
- To delete the parental lock channel setting, touch **Disable All** and then touch **YES** on the confirmation screen.

#### 4 Touch each channel on the list and set to ON or OFF.

**ON:** If you wish to set the lock.

**OFF:** If you wish to unlock the channel.

**NOTE**

- Touch **Info Change**. Select a desired item. Content information, Channel name, Artist name, Song title, Category name.

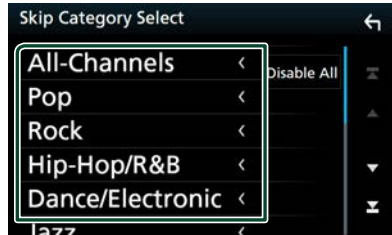
### Skip channel select

You can set the undesired channels to skip.

#### 1 Touch **Skip Channel Select**.

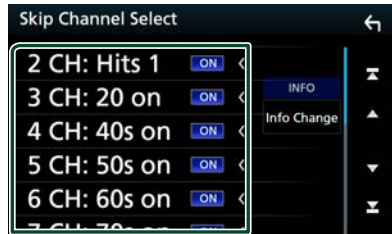
- Skip Category Select screen appears.

#### 2 Touch the desired category from the list.



- Displays all the channels in the selected category.

#### 3 Touch each channel on the list and set to ON or OFF.

**NOTE**

- To delete the skip channel setting, touch **Disable All** and then touch **YES** on the confirmation screen.
- Touch **Info Change**. Select a desired item. Content information, Channel name, Artist name, Song title, Category name.
- You can also select channels with Direct Channel and Preset Memory functions.

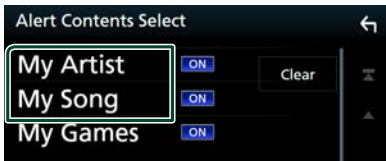
## Content Alerts setup

### Activating content alert

- 1 Touch **Content Alerts** in the SiriusXM SETUP screen.
  - ▶ The Content Alerts is turned on or off. Default is "ON".

### Selecting the content for the content alert

- 1 Touch **Content Alerts Contents Set** in the SiriusXM SETUP screen.
- 2 Select the content you want to set up.



#### NOTE

- To set all the content Alerts off, touch **Clear** and then touch **YES** on the confirmation screen.
- Select **OFF** for the content you want to deactivate the content alert for.

- 3 Touch each content list item you want to set check or uncheck.

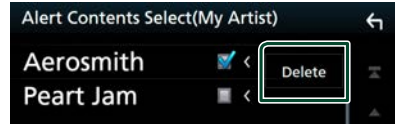


#### NOTE

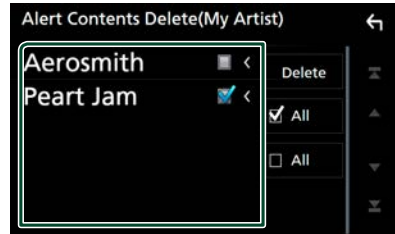
- You can select  for up to 60 Artists or Songs.

### To delete the Artist and Song

- 1 Touch **Delete**.



- 2 Touch the content name to check.



#### All

Select all content.

#### All

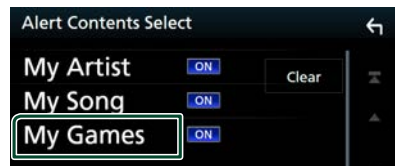
Erases all check marks.

- 3 Touch **Delete** and then touch **YES** on the confirmation screen.

### To select a Team

Get alerted when your favorite sports team is playing on another SiriusXM channel with GameAlert™

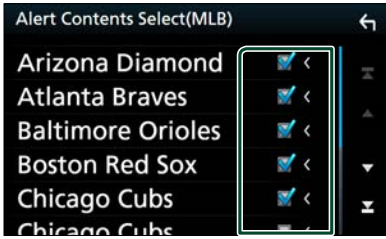
- 1 Touch **My Games**.



- 2 Touch the desired league from the list.



- 3 Touch each team in the list you want to set check or uncheck.



#### NOTE

- You can select  for up to 30 Teams.

## SportsFlash™ setup

### Activating SportsFlash

- 1 Touch **SportsFlash** in the SiriusXM SETUP screen.
- The SportsFlash is turned on or off. Default is "ON".

### Selecting SportsFlash Beep

- 1 Touch **SportsFlash Beep** in the SiriusXM SETUP screen.
- The SportsFlash Beep is turned on or off. Default is "ON".

### Selecting the teams for SportsFlash

- 1 Touch **SportsFlash Team Set** in the SiriusXM SETUP screen.
- Team Set screen appears.

- 2 Touch **Edit**.



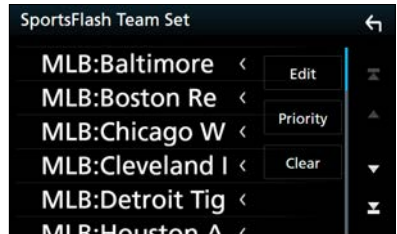
- 3 Touch the desired league from the list.



- 4 Touch each team in the list you want to set ON or OFF.



- 5 Touch  twice.



#### Edit

Sets and removes teams.

#### Priority

Sets the priority of a team to be posted.

#### Clear

Removes all teams that have been set.

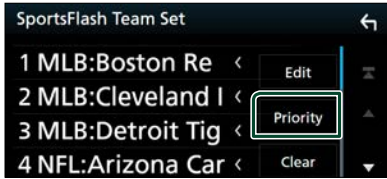
Touch **Clear**. When the confirmation screen appears, touch **YES**.

#### NOTE

- SportsFlash™ is available on SXV300 or later tuner models.
- Up to 50 teams can be added.

## Set the SportsFlash™ Team Priority

### 1 Touch **Priority**.

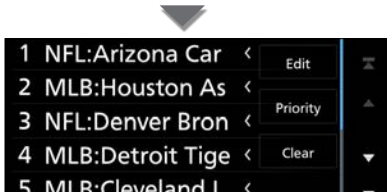


### 2 Set the priority of a team.

Each time you touch a Team, the priority is set and reset.



### 3 Touch **Done**.



#### NOTE

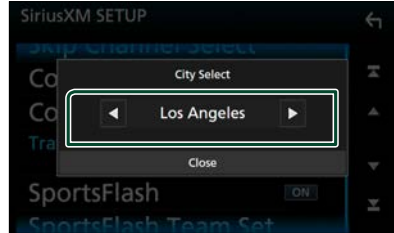
- Priority can be set on up to 5 teams.
- When priority has already been set for 5 teams, it cannot be set for any other team. Delete an unnecessary team.

## Select a City for Traffic & Weather

You can select a city for which you wish to receive SiriusXM Traffic & Weather broadcasts and hear them from the beginning.

### 1 Touch **Traffic & Weather City Select** in the SiriusXM SETUP screen.

### 2 Touch ◀ and ▶ to select a city.



## Selecting Featured Bands Update Messages

You can set whether to be notified when the featured seasonal theme is updated.

### 1 Touch **Featured Bands Update Messages** in the SiriusXM SETUP screen.

The Featured Bands Update Messages is turned on or off. Default is "ON".

## TuneStart™

### 1 Touch **Tune Start** in the SiriusXM SETUP screen.

The TuneStart is turned on or off. Default is "ON".

## Reset

### 1 Touch **SiriusXM Reset** in the SiriusXM SETUP screen.

➤ Confirmation screen appears.

### 2 Touch **YES**.

➤ All SiriusXM settings return to default.

# Bluetooth Control

Using the Bluetooth function, various functions can be used: listening to the audio file, making/receiving a call.

## Information for using Bluetooth® devices



Bluetooth is a short-range wireless radio communication technology for mobile devices such as mobile phones, portable PCs, and other devices.

Bluetooth devices can be connected without cables and communicate with each other.

### NOTE

- While driving, do not perform complicated operations such as dialing numbers, using the phone book, etc. When you perform these operations, stop your car in a safe place.
- Some Bluetooth devices may not connect to this unit depending on the Bluetooth version of the device.
- This unit may not work for some Bluetooth devices.
- Connecting conditions may vary depending on your environment.
- For some Bluetooth devices, the device is disconnected when the unit is turned off.

## About the cell-phone and Bluetooth audio player

This unit conforms to the following Bluetooth specifications:

### Version

Bluetooth Ver. 3.0

### Profile

#### Cell-phone:

HFP (V1.6) (Hands Free Profile)

SPP (Serial Port Profile)

PBAP (Phonebook Access Profile)

#### Audio player:

A2DP (Advanced Audio Distribution Profile)

AVRCP (V1.5) (Audio/Video Remote Control Profile)

### Sound codec

SBC, AAC

### NOTE

- The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG.
- However, it may be impossible for such units to communicate with your cell-phone depending on its type.

## Register the Bluetooth device

It is necessary to register the Bluetooth audio player or cell-phone to this unit before using the Bluetooth function.

You can register up to 10 Bluetooth devices.

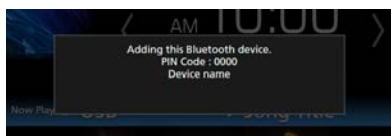
### NOTE

- Up to 10 Bluetooth devices can be registered. If an attempt is made to register the 11th Bluetooth device, the Bluetooth device connected on the earliest date will be deleted to register the 11th one.
- This unit is compatible with the Apple Easy Pairing function. When an iPod touch or iPhone is connected to this unit, an authentication dialog appears. Performing operation for authentication on this unit or iOS smartphone registers the smartphone as a Bluetooth device.

Follow the step 1, 2 and 3 for registration.

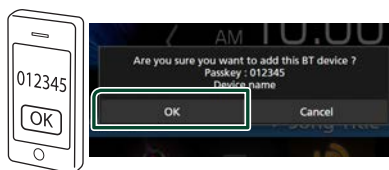
### Step 1: Registration the Bluetooth device

- 1 Search the unit ("DNX\*\*\*\*") from your smartphone/cell-phone.
- 2 Input the PIN Code in your smartphone/cell-phone.  
PIN Code is set to "0000" as the default.



### ● SSP (Secure Simple Pairing of Bluetooth 2.1 or later)

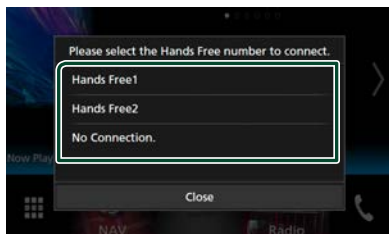
- 1 Search the unit ("DNX\*\*\*\*") from your smartphone/cell-phone.
- 2 Confirm the request both on the smartphone/cell-phone and the unit.



### Step 2: Connection settings

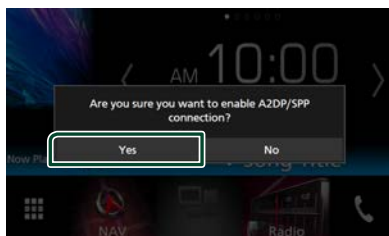
- When the HFP profile is supported, Hands Free 1 or 2 is automatically selected for connection, proceeding to the next step.
  - When the A2DP or SPP profile is supported, the cell-phone or audio player is automatically connected, proceeding to the next step.
- If cell-phones and/or audio players have already been connected, a selection screen appears.

#### 1 Select the hands-free number to connect.



#### 2 Select if you want to use the audio player app in your smartphone over A2DP, and the other apps in your smartphone over SPP.

This message appears if the device supports BT audio (A2DP) or smartphone link (SPP).





### Step 3: Phonebook transfer

#### 1 Select if you want to transfer your phonebook data.

This message appears if the device supports PBAP.



The phonebook data transmission starts. Some smartphones may request permission to access the data. The data transmission will start with your permission.



When the data transmission and connection have completed, the Bluetooth connection icon appears on the screen.

## Bluetooth Setup

#### 1 Press the **MENU** button.

➤ Popup menu appears.

#### 2 Touch **SETUP**.



➤ SETUP Menu screen appears.

#### 3 Touch **Bluetooth**.



➤ Bluetooth SETUP screen appears.

See the following section for each setting.

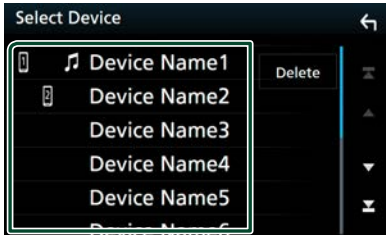
- Connect the Bluetooth device (**P.58**)
- Change the PIN Code (**P.59**)
- Change the device name (**P.59**)

## Connect the Bluetooth device

- 1 Touch **Select Device** in the Bluetooth SETUP screen.



- 2 Touch the device name you want to connect.

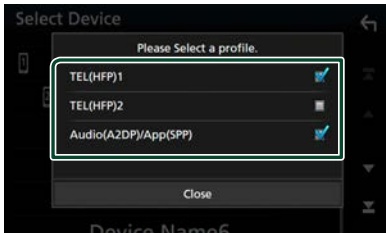


➤ Profile select screen appears.

### NOTE

- If the icon is lighted, it means that the unit will use that device.

- 3 Set each profile as follows.



#### ■ TEL (HFP) 1, TEL (HFP) 2

The device is connected with the unit as hands-free phone 1 or 2.

#### ■ Audio (A2DP)/App (SPP)

Set to interwork with an application installed in a smartphone or to use as an audio player.

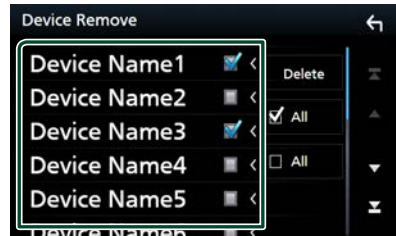
- 4 Touch **Close**.

## To delete the registered Bluetooth device

- 1 Touch **Delete**.



- 2 Touch the device name to check.



#### ■ All

Select all Bluetooth device.

#### ■ All


Erases all check marks.

- 3 Touch **Delete**.

➤ Confirmation message appears.

- 4 Touch **Yes**.


## Change the PIN Code

- 1 Touch **PIN Code** in the Bluetooth SETUP screen.  
 ▶ PIN Code Set screen appears.
- 2 Touch and hold .
- 3 Input the PIN Code.



- 4 Touch **SET**.

## Change the device name

- 1 Touch **Device Name** in the Bluetooth SETUP screen.  
 ▶ Change Device Name screen appears.
- 2 Touch and hold .
- 3 Input the device name.



- 4 Touch **Enter**.

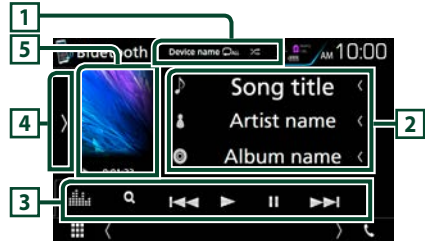
## Playing Bluetooth Audio Device

Most function can be controlled from the source control screen.










To enter Bluetooth source, touch **Bluetooth** icon in the source selection screen. (P.13)

## Bluetooth basic operation

### Control screen








### 1 Device name/ /

- Connected device name.
- : Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence; File repeat () , Folder repeat () , All songs repeat () , Repeat off ()
- : Randomly plays all tracks in current folder. Each time you touch the key, random mode switches in the following sequence; Folder random () , All random () , Random off ()

### 2 Information display \*

Displays the name of the track information.

### 3 Operation keys \*

- : Searches file. See **File search (P.60)**.
- : Searches the previous/next content. Touch and hold to fast forward or fast backward.
- : Plays.
- : Pauses.
- : Displays the Graphic Equalizer screen. (P.76)

**4 Function panel**

Touch on the left side of the screen to display the function panel. Touch again to close the panel.

- **BT DEVICE CHANGE** : Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP). See **Connect the Bluetooth audio (P.60)**.

**5 Play mode indicator/ Playing time**

▶, ||: Current play mode indicator

The meanings of each icon are as follows;

- ▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), || (pause), ■ (stop).

\*These items appear only when the audio player which supports AVRCP profile is connected.

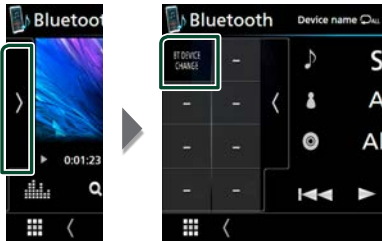
**NOTE**

- The operation buttons, indications and information displayed on the screen differ depending on the connected device.
- If the operation keys do not appear, operate from the player.
- Depending on your cell-phone or audio player, audio may be heard and controlled but text information may not appear.
- If the volume is too low, raise it on your cell-phone or audio player.

**Connect the Bluetooth audio**

Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP).

- 1 Touch **BT DEVICE CHANGE** on the left side of the screen.



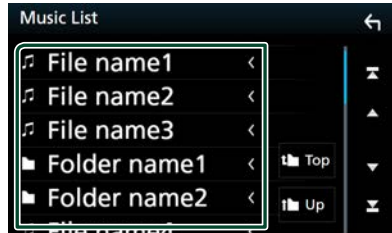
- 2 Touch the device name you want to connect.



- 3 Touch **Close**.

**File search**

- 1 Touch **Q**.
- 2 Touch the desired file or folder.



When you touch a folder its contents are displayed.

- 3 Touch desired item from the content list.  
▶ Playback starts.

**NOTE**

- For operations in the list screen, see **List screen (P.15)**.

## Using Hands-Free Unit

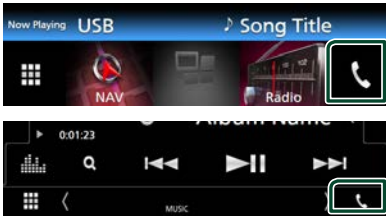
You can use telephone function by connecting the Bluetooth telephone to this unit.

### NOTE

- While Apple CarPlay or Android Auto is being connected, Bluetooth Hands-Free function and two Bluetooth devices connections cannot be used. Only Apple CarPlay or Android Auto Hands-Free function can be used.

## Make a call

### 1 Touch .








► Hands Free screen appears.

### NOTE

- If your mobile phone supports PBAP, you can display the phone book and call lists on the touch panel screen when the mobile phone is connected.
  - Phone book: up to 1000 entries
  - Up to 50 entries including dialed calls, received calls, and missed calls

### 2 Select a dialing method.



- : Call using call records
- : Call using the phonebook
- : Call using the preset number
- : Call by entering a phone number
- : Voice Recognition (**P.62**)

### ● Select the cell-phone to use

When you connect two cell-phones

- 1) Touch   to select the phone you want to use.

### ● Bluetooth SETUP

- 1) Touch .  
Bluetooth SETUP screen appears.

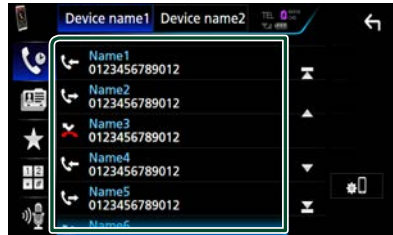
### NOTE

- The status icons such as battery and antenna displayed may differ from those displayed on the cell-phone.
- Setting the cell-phone in the private mode can disable the hands-free function.

## Call using call records

### 1 Touch .

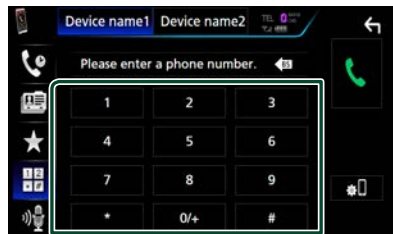
### 2 Select the phone number from the list.



## Call by entering a phone number


### 1 Touch .

### 2 Enter a phone number with number keys.





### 3 Touch .

### Call using the preset number

- 1 Touch .
- 2 Touch the Name or phone number.



### Call using the phonebook

- 1 Touch .
- 2 Touch .
- 3 Select the initial.



- Characters with no corresponding name will not appear.
- A first character with an accent character such as “ü” can be searched for with a non-accent character “u”. A character with an accent character in a sentence cannot be searched.

- 4 Select the person you want to call from the list.



- 5 Select the phone number from the list.




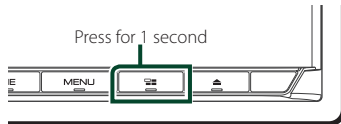
**NOTE**

- You can set the list to arrange in the order of last name or first name. For details, see **Hands-Free Setup (P.65)**.

### Voice Recognition

You can access the voice recognition function of the cell-phone connected to this unit. You can search the cell-phone phonebook by voice. (The functionality depends on the cell-phone.)

- 1 Press the  button for 1 second.





> Voice Recognition screen appears.

- 2 Start speaking.

**NOTE**

- You can use voice recognition function by touching  on the Hands Free screen.

## Receive a call

- 1 Touch  to answer a phone call or  to reject an incoming call.



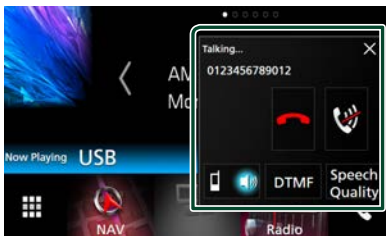
### NOTE

- While monitoring the view camera, this screen does not appear even if a call comes in.

### To end call

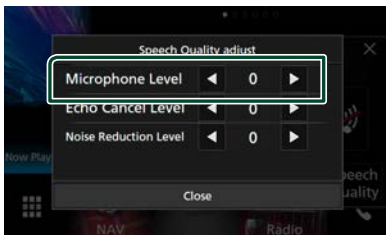
- 1 While talking, touch .

## Operations during a call



### ● Adjust the volume of your voice

- 1) Touch **Speech Quality**.
- 2) Touch ◀ or ▶ of **Microphone Level**.




### ● Adjust the receiver volume

Press the ▼ or ▲ button.





### ● Mute your voice

Touch  to mute or not to mute your voice.


### ● Output the dial tone



Touch **DTMF** to display the tone input screen. You can send tones by touching desired keys on the screen.

### ● Switching the speaking voice output


Touching  /  each time switches the speaking voice output between cell-phone and speaker.

### ● Call-waiting

When you receive a call while talking on another call, you can answer the newly received call by touching . The current call is on hold.

Each time you touch , the caller will change. When you touch , the current call will end and switch to the call in hold.

### ● To close the Hands-Free popup screen

Touching × closes the Hands-Free popup screen. To display it again, touch .

## Phone number preset

You can register frequently used phone numbers to this unit.

- 1 Touch .
- 2 Touch **Edit**.



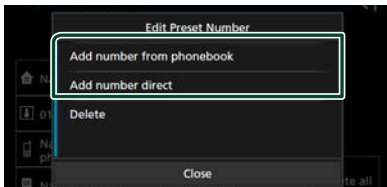
- 3 Select where to preset.



### Delete all

To delete all preset numbers, touch **Delete all** and then touch **OK** on the confirmation screen.

- 4 Select how to preset.



### Add number from phonebook

Select the number to preset from the phonebook. See **Call using the phonebook (P.62)**.

### Add number direct



Enter the telephone number directly and touch **SET**. See **Call by entering a phone number (P.61)**.

### Delete

To delete the preset number, touch **Delete** and then touch **OK** on the confirmation screen.

## Phonebook transfer


You can transfer the phonebook in your Bluetooth smartphone via PBAP.

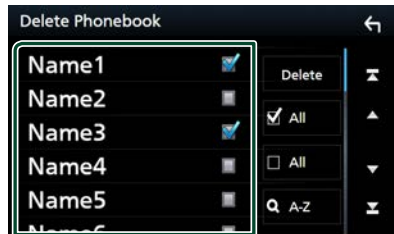
- 1 Touch .
- 2 Touch .



> The phonebook data transmission starts.

### Phonebook deletion

- 1 Touch .
- 2 Touch the name to check.



### All

Checks all boxes.

### All

Erases all check marks.

- 3 Touch **Delete**.

> Confirmation message appears.

- 4 Touch **OK**.



## Hands-Free Setup

You can perform various setup about handsfree function.

### 1 Press the **MENU** button.

- Popup menu appears.

### 2 Touch **SETUP**.



- SETUP Menu screen appears.

### 3 Touch **Bluetooth**.



- Bluetooth SETUP screen appears.

### 4 Touch **TEL SETUP**.

- TEL SETUP screen appears.

### 5 Set each item as follows.



#### ■ **Bluetooth HF/Audio**

Select the speakers to output the sound from cell-phone (such as phone call voice and ringing tone) and Bluetooth audio player.

**Front**: Outputs from the front speakers.

**All** (Default): Outputs from all speakers.

#### ■ **Auto Response**\*

Sets an automatic response time to pick-up an incoming call.

**OFF** (Default): Automatic response is not available.

**1 / 5 / 10 / 15 / 20 / 25 / 30**: Set calling ring time (second).

#### ■ **Auto Pairing**

When set to "ON", the Apple Auto Pairing function is turned on to automatically register the iPod touch or iPhone connected to this unit.

**ON** (Default): Uses Apple Auto Pairing function.

**OFF**: Not uses Apple Auto Pairing function.

#### ■ **Sort Order**

Sets how to arrange the cell-phone phonebook.

**First**: Arranges in the order of first name.

**Last** (Default): Arranges in the order of last name.

#### ■ **Echo Cancel Level**

Adjusts the level of echo cancellation.

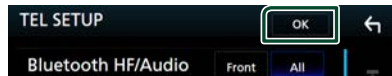
Default is "0".

#### ■ **Noise Reduction Level**

Reduces the noises generated by surrounding environment without changing the microphone volume. Use this setting when the voice of caller is not clear. Default is "0".

\* Either the time interval for automatic answer set on this unit or the time interval set on the cell-phone, whichever is shorter takes effect.

### 6 Touch **OK**.



# Other External Components

## View Camera

### NOTE

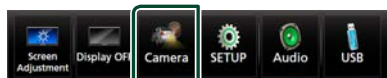
- To connect a camera, see **P.89**.
- To use a rear view camera, a REVERSE lead connection is required. (**P.88**)
- The view of the front view camera or dashboard camera varies depending on the setting of **Dashboard Camera /Front Camera**.
- If **Rear Camera Interruption** is set to on, the camera screen is displayed when you shift the gear to the reverse (R) position.

### Display the camera screen

#### 1 Press the **MENU** button.

- Popup menu appears.

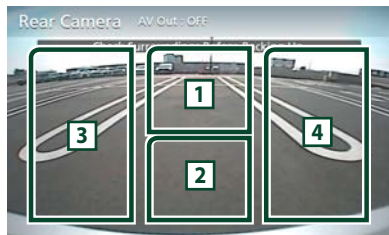
#### 2 Touch **Camera**.



- View camera screen appears.

#### 3 Adjust each item as follows.

To erase the caution message, touch the screen.



#### 1 Switching the View Camera

Touch to change the front view camera or dashboard camera and rear view camera.

#### 2 Camera off

Touch to exit the camera screen.

#### 3 Switching the Guideline \*1

Touching each time turns on or off the guideline.

#### 4 Switching the Angle \*1

Touching each time changes camera angles.

\*1 Available when **Dashboard Camera /Front Camera, Rear Camera** is set to **CMOS 3-Series Camera**.

### Camera Setup

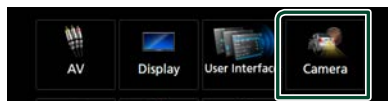
#### 1 Press the **MENU** button.

- Popup menu appears.

#### 2 Touch **SETUP**.

- SETUP Menu screen appears.

#### 3 Touch **Camera**.



- Camera screen appears.

#### 4 Set each item as follows.

##### ■ **Rear Camera**

**CMOS 3-Series Camera**: Select this when the CMOS-3xx series with ID 1 ("Rear Camera") set is connected. (**Rear Camera Interruption** turns on.)

**Other** (Default): Select this when the other camera is connected.

##### ■ **Rear Camera Interruption**

**ON**: Displays the picture from the rear view camera when you shift the gear to the reverse (R) position.

**OFF** (Default): Select this when no camera is connected.

##### ■ **Rear Camera Settings**

If you select **CMOS 3-Series Camera** for **Rear Camera**, adjusts the CMOS-3xx series with ID 1 ("Rear Camera") set. For details, see the instruction manual of your camera.

##### ■ **Parking Guidelines**

You can display parking guidelines to enable easier parking when you shift the gear to the reverse (R) position.

Default is "ON".

##### ■ **Guidelines SETUP**

If you select **ON** for **Parking Guidelines**, adjust the parking guidelines. See **To adjust the parking guidelines (P.67)**.

**■ Dashboard Camera /Front Camera**

**Dashboard Camera** : Select this when the dashboard camera is connected.

**CMOS 3-Series Camera** : Select this when the CMOS-3xx series with ID 2 ("Front Camera") set is connected.

**Other** : Select this when the other camera is connected.

**OFF** (Default): Select this when no camera is connected.

**■ Front Camera Settings**

If you select **CMOS 3-Series Camera** for **Dashboard Camera /Front Camera**, adjusts the CMOS-3xx series with ID 2 ("Front Camera") set. For details, see the instruction manual of your camera.

**■ Front Camera Mirror Image**

If you select **Other** for **Dashboard Camera /Front Camera**.


**ON** : Displays the picture from the front view camera horizontally reversed.

**OFF** (Default): Displays the picture from the front view camera as it is.

**To adjust the parking guidelines**

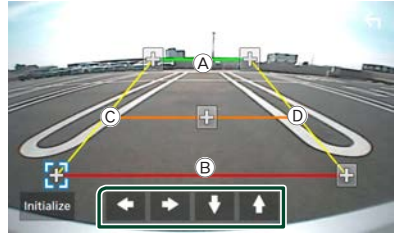
**NOTE**

- Install the rear view camera in the appropriate position according to the instructions supplied with the rear view camera.
- When adjusting the parking guidelines, make sure to use the parking brake to prevent the car from moving.

- 1 Touch **ON** of **Parking Guidelines** in the Camera screen. (P.66)
- 2 Touch **Guidelines SETUP** in the Camera screen.
- 3 Adjust the parking guidelines by selecting the  mark.




**4 Adjusting the position of the selected mark.**



Make sure that (A) and (B) are horizontally parallel, and that (C) and (D) are the same length.

**NOTE**

- Touch **Initialize** and after touch **Yes** to set all the  marks to the initial default position.

**Use Dashboard Camera**

A Dashboard Camera, DRV-N520 (optional accessory), connected to this unit lets you play video-recorded data and so on.

For details, see the instruction manual of the Dashboard Camera DRV-N520 (optional accessory).

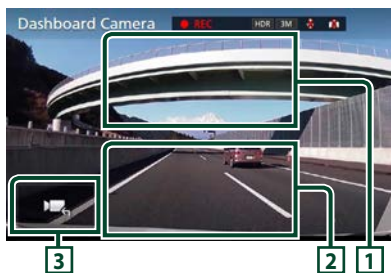
**NOTE**

- To connect a dashboard camera, see **P.90**.
- Sets the dashboard camera/front camera as **Dashboard Camera** . (P.67)

**■ Display the dashboard camera screen**

- 1 Press the **MENU** button.  
➤ Pop-up menu appears.
- 2 Touch **Camera** .





**1 Switching the View Camera**

Touch to change the dashboard view camera and rear view camera.

**2 Camera off**

Touch to exit the camera screen.

**3 Key display**

Touch to display the dashboard camera control buttons.

## External audio/video players—AV-IN

**1** Connect an external component to the AV-IN input terminal. (P.89)

**2** Select AV-IN as the source. (P.13)

**3** Turn on the connected component and start playing the source.

## OEM Features Operation

By connecting this unit to the bus system of the vehicle using an iDataLink (commercially available), this unit can access the satellite radio source provided for the vehicle and vehicle information can be displayed on this unit.










**1** Press the **HOME** button.

➤ HOME screen appears.

**2** Touch  on the HOME screen.

**3** Touch icon.



|   |  |
|---|--|
|    | • Displays the control screen of the satellite radio source provided for the vehicle.        |
|    | • Displays the control screen of the media player source provided for the vehicle.           |
|    | • Displays the control screen of the Bluetooth Hands Free function provided for the vehicle. |
|    | • Displays the control screen of the Bluetooth streaming source provided for the vehicle.    |
|    | • Displays information about the instruments such as a speedometer.                          |
|    | • Displays information about the air conditioner of the vehicle. *                           |
|    | • Displays information about the Parking Distance Sensor of the vehicle.                     |
|   | • Displays information about the tire pressures of the vehicle. *                            |
|  | • Displays information about the Radar Detector. *   |

\*These ADS adapter features are displayed as the widget on the Home screen. (P.11) You can display these screens by touching the widget.

**NOTE**

- Displayable screens, button names, and screen names vary depending on the type of the connected iDataLink and the model of the vehicle. For more details, access the following URL:  
[www.idatalink.com/](http://www.idatalink.com/)

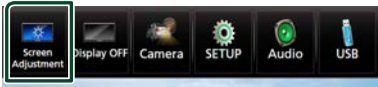
# Setting Up

## Monitor Screen Setup

You can adjust image quality in video, menu screen, etc.

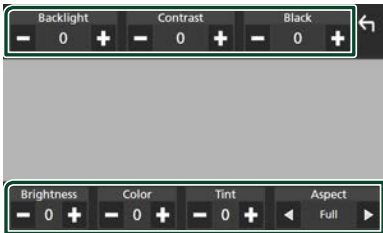
- 1 Press the **MENU** button.
  - Popup menu appears.

- 2 Touch **Screen Adjustment**.



- Screen Control screen appears.

- 3 Adjust each item as follows.



### ■ Backlight / Contrast / Black / Brightness / Color / Tint

Adjusts each item.

### ■ Aspect

Select screen mode.

**Full:** Changes the aspect ratio of video and displays fully on the screen.

**Normal:** Displays with 4:3 ratio.

**Auto:**

DVD, VCD and disc media: Video of 16:9 ratio is displayed in Full and video of 4:3 ratio is displayed in Regular.  
 USB device and SD card: Displays video fully on vertical or horizontal with no ratio change.

### NOTE

- Adjusting items are different depending on the current source.

## System Setup

### NOTE

- Each operation in this section can be started from the multi function menu.

- 1 Press the **MENU** button.
  - Popup menu appears.

- 2 Touch **SETUP**.



See the following section for each setting.

- Set up AV (**P.73**)
- Set up display (**P.71**)
- Set up the user interface (**P.69**)
- Set up camera (**P.66**)
- Set up special (**P.71**)
- Set up Bluetooth (**P.57**)
- Set up navigation (**P.19**)

## User Interface Setup

You can setup user interface parameters.

- 1 Press the **MENU** button.
  - Popup menu appears.

- 2 Touch **SETUP**.

- SETUP screen appears.

## Setting Up

### 3 Touch User Interface.



➤ User Interface screen appears.

### 4 Set each item as follows.

#### ■ Beep

Turns the key touch tone on or off.  
Default is "ON".

#### ■ Parking Assist Display

When an ADS adapter is connected, you can display information about obstacles around the car.

**ON**: Always displays information.

**Dyn.** (Default): Displays information when the sensor detects obstacles.

**OFF**: Cancels.

This can be set when the iDataLink (commercially available) is connected.

#### ■ Parking Assist Position

Select where information about obstacles is displayed on the screen (left or right).

"Left"/"Right" (Default)

This can be set when the iDataLink (commercially available) is connected.

#### ■ Language Select Mode

Selects the mode to select a language.

**Easy** (Default): Selects a language easily.

**Advanced**: Allows you to select languages for respective items.\*

#### ■ Language Select

Selects a language.

#### ■ Touch Panel Adjust

Adjust the sensing position of touch panel.  
(P.70)

#### ■ Clock

**NAV-SYNC** (Default): Synchronizes the clock time with navigation GPS data.

**Manual**: Sets the clock manually

#### ■ Time Zone

If you have selected **Manual** for Clock, select the time zone.

#### ■ Clock Adjust

If you select **Manual** for Clock, adjust the date and time manually. (P.70)

\* If you select **Advanced for Language Select Mode**, the following screen appears.



#### ■ GUI Language Select

Selects the display language used for the control screen and so forth.

#### ■ Navigation Language Select

Selects the language used for navigation.

### Adjust the date and time manually.

1 Touch **Clock** in the User Interface screen.

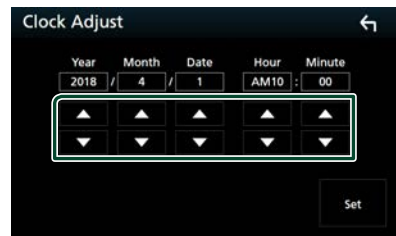
2 Select **Manual**.

3 Touch **Time Zone** in the User Interface screen.

4 Select the time zone.

5 Touch **Clock Adjust** in the User Interface screen.

6 Adjust the date, then adjust the time.




7 Touch **Set**.

### Touch panel adjustment

1 Touch **Touch Panel Adjust** on the User Interface screen.

➤ Touch Panel Adjust screen appears.

- Follow the instruction on the screen and long touch the center of each .



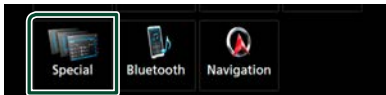
**NOTE**

- To cancel the touch panel adjustment, touch **Cancel**.
- To reset to the initial status, touch **Reset**.

## Special Setup

You can setup Special parameters.

- Press the **MENU** button.
  - Popup menu appears.
- Touch **SETUP**.
  - SETUP screen appears.
- Touch **Special**.



➤ Special screen appears.

- Set each item as follows.
  - DEMO**

Set the demonstration mode. Default is "ON".
  - SETUP Memory**

Locks or unlocks the Audio SETUP Memory/Recall/Clear.
  - Audio SETUP Memory**

Memorizes the current audio setting.

    - Fader/ Balance, Speaker / X'over, Equalizer (User Preset, SW Level), Position/DTA, Sound Effect (P.74)
  - Audio SETUP Recall**

Recalls the memorized audio setting.
  - Audio SETUP Clear**

Clears the AUDIO SETUP Memory and the currently memorized audio setting.

■ **Software Information**

Check the software version of this unit. (P.71)

■ **Open Source Licenses**

Displays the open source licenses.

■ **Initialize**

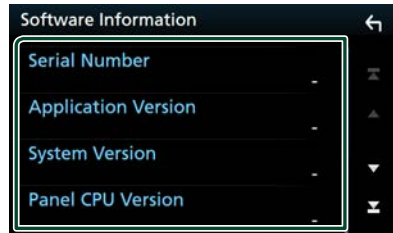
Touch **Initialize** and then touch **Yes** to set all the settings to the initial default settings.

- Audio SETUP Memory is not initialized.

## Software Information

Check the software version of this unit.

- Touch **Software Information** in the Special screen.
- Confirm the software version.



**NOTE**

- For how to update the software, see the relevant update procedure manual which comes with the software.

## Display Setup

- Press the **MENU** button.
  - Popup menu appears.
- Touch **SETUP**.
  - SETUP screen appears.
- Touch **Display**.



➤ Display screen appears.

## Setting Up

### 4 Set each item as follows.

#### ■ Dimmer

Select dimmer mode.

**OFF:** The display and buttons do not dim.

**ON:** The display and buttons dim.

**SYNC (Default):** Turns the dimmer function on or off when the vehicle light control switch is turned on or off.

**NAV-SYNC:** Turns the dimmer function on or off according to the Navigation Day/Night display setting.

#### ■ OSD Clock

Select if you want to display the clock while watching DVD video, etc.

"ON" (Default)/ "OFF"

#### ■ Key Color

You can set the button illumination color. (P.72)

#### ■ Wallpaper Customize

Changing wallpaper image or color. (P.72)

#### ■ Viewing Angle

If it is hard to see the image on the screen even, adjust the viewing angle. The smaller the (negative) value, the more whitish the image on the screen looks.

"0" (Default)/ "-1"/ "-2"/ "-3"

### ■ Customizing the key color

You can set the button illumination color.

#### 1 Touch **Key Color** in the Display screen.

#### 2 Touch the desired color.



#### ■ User

The color you have set in the process of **Adjust** is registered.

#### ■ Scan

You can set the key color to continuously scan through the color spectrum.

#### ■ Car Color

This can be selected when a compatible ADS adapter is connected.

### 3 Touch .

### To register original color

You can register your original color.

#### 1 Touch **User** in the Key Color screen.

#### 2 Touch **Adjust**.

#### 3 Use **-** and **+** to adjust each color value.

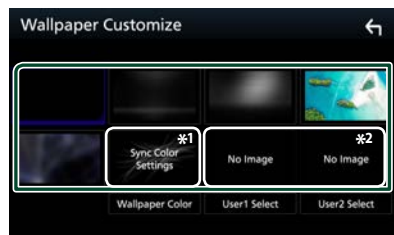


### 4 Touch .

### ■ Change wallpaper image or color

#### 1 Touch **Wallpaper Customize** in the Display screen.

#### 2 Select an image.



\*1 Select a wallpaper color in advance.

\*2 Select an original image in advance.




### To select wallpaper color

- 1 Touch **Wallpaper Color** in the Wallpaper Customize screen.
- 2 Select a wallpaper color.



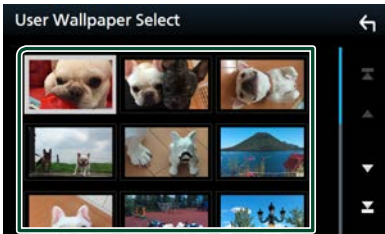
\*1 The color you have selected at **Key Color** is added on the image. If you select "Scan" at **Key Color**, you cannot select this image.

- 3 Touch .

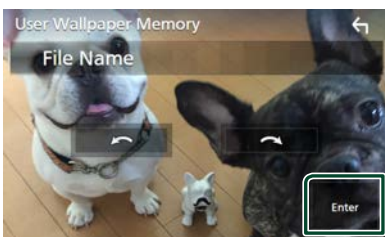
### To register original image

You can load an image from the connected USB device and set it for the wallpaper image. Before operating this procedure, it is necessary to connect the device which has the image to load.

- 1 Touch **User1 Select** or **User2 Select** in the Wallpaper Customize screen.
- 2 Select the image to load.





- 3 Touch **Enter**.



- > The selected image is loaded and the display returns to the Wallpaper Customize screen.

#### NOTE

- Touching  rotates counter clockwise.
- Touching  rotates clockwise.
- Picture files: JPEG (.jpg, .jpeg), PNG (.png), BMP (.bmp)

## AV Setup

You can set AV parameters.

- 1 Press the **MENU** button.
  - > Popup menu appears.
- 2 Touch **SETUP**.
  - > SETUP screen appears.
- 3 Touch **AV**.



- > AV screen appears.

- 4 Set each item as follows.

#### ■ AV-OUT

You can select an AV source to be output from the AV OUTPUT port.

OFF, AV-IN, DISC, USB, SD, or iPod

- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, SD, iPod, Disc, Spotify, Pandora or Bluetooth audio as the main source, you cannot select USB, SD or iPod as the AV output source.
- If you select Mirroring (WebLink/Waze), Apple CarPlay or Android Auto as the main source, you cannot select DISC (Music CD/ Disc media), USB, SD or iPod as the AV output source.

#### ■ Driving Position

Select the driving position (left or right).

"Left" (Default)/ "Right"

#### ■ OEM SETUP

Confirm the information about/ change the settings for using the ADS adapter.

# Controlling Audio

## NOTICE

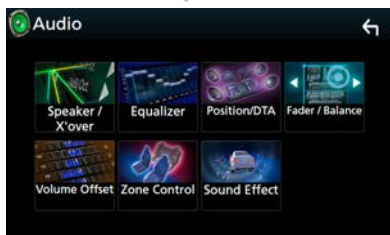
- Each operation in this section can be started from the multi function menu.

You can adjust the various settings such as audio balance or subwoofer level.

### 1 Press the **MENU** button.

- Popup menu appears.

### 2 Touch **Audio**.



See the following section for each setting.

- Set up speaker / X'over (**P.74**)
- Controlling equalizer (**P.76**)
- Set listening position / DTA (**P.79**)
- Controlling general audio (Fader / Balance) (**P.75**)
- Set volume offset (**P.77**)
- Performing zone control (**P.77**)
- Set sound effect (**P.78**)

## Speaker / X'over setup

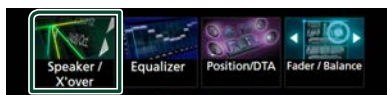
### 1 Press the **MENU** button.

- Popup menu appears.

### 2 Touch **Audio**.

- Audio screen appears.

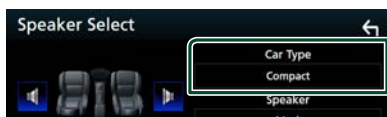
### 3 Touch **Speaker/X'over**.



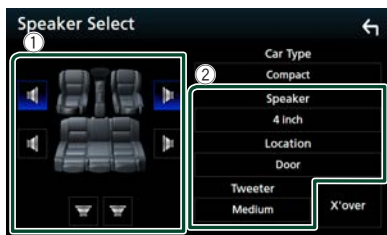
### 4 Select a car type.

You can setup the car type and speaker network, etc.

If your car type is selected, the Delay Time Alignment is set automatically (for timing adjustment of sound output for each channel) to have the highest surround effects.



### 5 Touch the speaker (1) you wish to adjust and set each item (2) as follows.



#### ■ **Speaker**

You can select a speaker type and its size to get the best sound effects.

When the speaker type and size are set, the speaker crossover network is set automatically.

#### ■ **Location (Only for Front, Rear)**

Select the speaker position you have fixed.

■ **Tweeter (Only for Front)**

You can set the tweeter when you are selecting front speakers.

None, Small, Medium, Large

■ **X'over**

Displays the speaker crossover setup screen.

You can adjust the crossover setup that was set automatically when you selected the speaker type.

For details, see **Crossover network setup (P.75)**

■ **Crossover network setup**

You can set a crossover frequency of speakers.

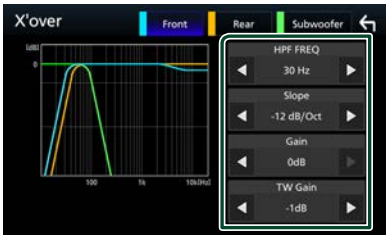
1 Touch **X'over**.



2 Touch the speaker to set.



3 Set each item as follows.



■ **HPF FREQ**

High Pass Filter adjustment. (When front or rear speaker is selected on Speaker Select screen)

■ **LPF FREQ**

Low Pass Filter adjustment. (When subwoofer is selected on Speaker Select screen)

■ **Slope**<sup>\*1</sup>

Sets a crossover slope.

■ **Gain**

Adjusts the front speaker, rear speaker, or subwoofer level.

■ **TW Gain**<sup>\*2</sup>

Adjusts the tweeter level. (When front is selected on Speaker Select screen)

■ **Phase Inversion**<sup>\*3</sup>

Sets the phase of subwoofer output.

Check **Phase Inversion** to shift the phase 180 degrees. (When subwoofer is selected on Speaker Select screen)

<sup>\*1</sup> Only when "LPF FREQ"/"HPF FREQ" is set to a mode other than "Through" in **X'over**.

<sup>\*2</sup> Only when "Tweeter" is set to "Small", "Medium", "Large" in **Speaker Setup**.

<sup>\*3</sup> Only when "Subwoofer" is set to a mode other than "None" in **Speaker Setup**.

**Controlling General Audio**

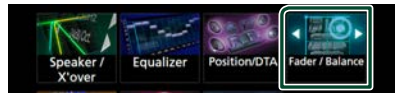
1 Press the **MENU** button.

▶ Popup menu appears.

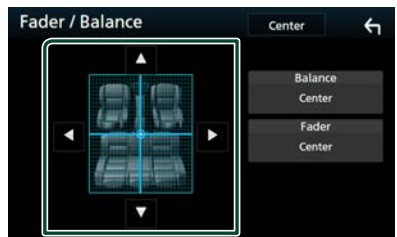
2 Touch **Audio**.

▶ Audio screen appears.

3 Touch **Fader / Balance**.



4 Set each item as follows.



■ **Fader / Balance**

Adjust the volume balance around the touched area.

◀ and ▶ adjust the right and left volume balance.

▲ and ▼ adjust the front and rear volume balance.

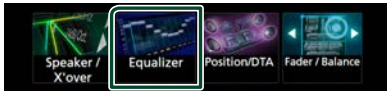
■ **Center**

Clear the adjustment.

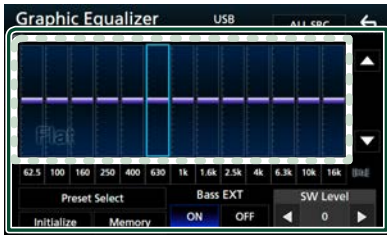
## Equalizer Control

You can adjust equalizer by selecting the optimized setting for each category.

- 1 Press the **MENU** button.
  - ▶ Popup menu appears.
- 2 Touch **Audio**.
  - ▶ Audio screen appears.
- 3 Touch **Equalizer**.



- 4 Touch the screen and set the Graphic Equalizer as desired.



### ■ Gain level (dotted frame area)

Adjust the gain level by touching each frequency bar.

You can select frequency bar and adjust its level by ▲, ▼.

### ■ Preset Select

Displays the screen to recall the preset equalizer curve.

### ■ Memory

Saves the adjusted equalizer curve from "User1" to "User4".

### ■ Initialize

The current EQ curve returns to flat.

### ■ ALL SRC

Apply the adjusted equalizer to all sources. Touch **ALL SRC** and then touch **OK** on the confirmation screen.

### ■ Bass EXT (Bass Extend Settings)

When turned on, the frequency lower than 62.5 Hz is set to the same gain level as 62.5 Hz.

### ■ SW Level

Adjusts the subwoofer volume. This setting is not available when subwoofer is set to "None". See **Speaker/ X'over setup (P.74)**.

## ■ Recall the EQ curve

- 1 Touch **Preset Select**.
- 2 Select EQ curve.

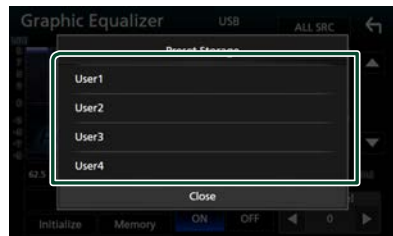


### NOTE

- **iPod** is available only during iPod source.

## ■ Save the EQ curve

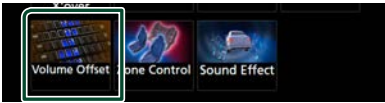
- 1 Adjust the EQ curve.
- 2 Touch **Memory**.
- 3 Select where to save.



## Volume Offset

Finely adjust the volume of the current source to minimize the difference in volume between different sources.

- 1 Press the **MENU** button.
  - Popup menu appears.
- 2 Touch **Audio**.
  - Audio screen appears.
- 3 Touch **Volume Offset**.



- 4 Touch **+** or **-** to adjust the level.



### ■ Initialize

Returns to the initial settings.

\* If you have increased the volume first, then reduced the volume using the "Volume Offset", the sound generated if you suddenly switch to another source may be extremely loud.

## Zone Control

You can select different sources for both front and rear positions in the vehicle.

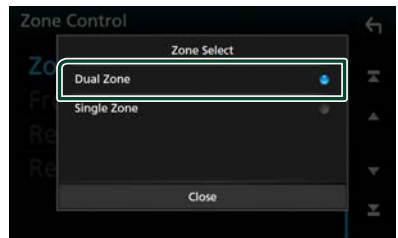
- 1 Press the **MENU** button.
  - Popup menu appears.
- 2 Touch **Audio**.
  - Audio screen appears.
- 3 Touch **Zone Control**.



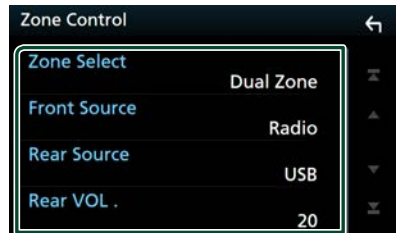
➤ Zone Control screen appears.

- 4 Touch **Zone Select**.

- 5 Touch **Dual Zone**.



- 6 Set each source as follows.



### ■ Zone Select

Touch **Single Zone** to turn off the dual zone function.

### ■ Front Source Rear Source

Select the audio source for each.

### ■ Rear VOL.

Adjusts the rear source volume.

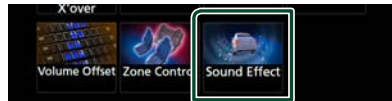
**NOTE**

- When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.
- When the dual zone function is set to on, the following functions are not available.
  - Output from the subwoofer
  - Subwoofer Level/ Bass Boost (P.78)
  - Equalizer Control/ Sound Effect/ Listening Position (P.76, 78, 79)
  - Speaker Setup (P.74)
  - High-resolution Sound Source File Playback
- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, SD, iPod, Disc, Spotify, Pandora or Bluetooth audio as the Front Source, you cannot select USB, SD or iPod as the Rear Source.
- If you select Mirroring (WebLink/ Waze), Apple CarPlay or Android Auto as the Front Source, you cannot select DISC (Music CD/ Disc media), USB, SD or iPod as the Rear Source.

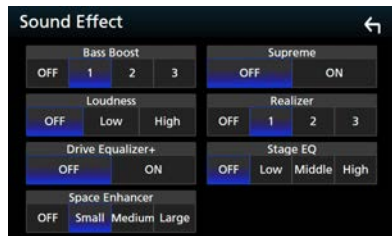
**Sound Effect**

You can set sound effects.

- 1 Press the MENU button.**  
➤ Pop-up menu appears.
- 2 Touch Audio.**  
➤ Audio screen appears.
- 3 Touch Sound Effect.**



- 4 Set each item as follows.**



■ **Bass Boost**

Sets the amount of bass boost among “OFF”/ “1”/“2”/“3”.

■ **Loudness**

Sets the amounts of boost of low and high tones.

“OFF”, “Low”, “High”

■ **Drive Equalizer+**

The sound quality is automatically optimized to meet the current car speed by GPS.

“OFF”, “ON”

■ **Space Enhancer**

Select the feeling of sound space enhancement.

“OFF”/“Small”/“Medium”/“Large”.

This setting is not available during HD Radio tuner source.

■ **Supreme**

Turns ON/OFF the Supreme function.

Technology to extrapolate and supplement with proprietary algorithm, the high-frequency range that is cut off when encoding.

### ■ Realizer

Virtually makes the sound more realistic using the Digital Signal Processor (DSP) system.

Select the level from "OFF"/"1"/"2"/"3".

### ■ Stage EQ

You can adjust the height of speakers virtually to suit your listening position. "OFF"/"Low"/"Middle"/"High".

## Listening Position/ DTA

Listening Position/DTA allows you to improve the sound field depending on the position of the seat you sit.

Listening Position/DTA allows you to set "Listening Position" and "Front Focus". You cannot set both at the same time.

### 1 Press the **MENU** button.

▶ Popup menu appears.

### 2 Touch **Audio**.

▶ Audio screen appears.

### 3 Touch **Position/DTA**.



- Set up Listening Position (**P.79**)
- Set up Front Focus (**P.80**)

### ■ Listening Position

Adjust the sound delay time as nearer speakers to the selected seat have more delay time, so that the sound from each speaker arrive a listener at the same time.

### 1 Touch **Listening Position** in the Position/DTA screen.

### 2 Select listening position from **Front R** (Right front), **Front L** (Left front), **Front All** (All front), and **All**.



### Position DTA control

You can fine-adjust your listening position.

### 1 Touch **Adjust**.

### 2 Touch **Delay**.

### 3 Touch ◀ or ▶ to adjust the delay time of the selected speaker.



### 4 Touch **Level**.

### 5 Touch ◀ or ▶ to adjust the sound level of the selected speaker.



### NOTE

- To return to the initial setting of Delay and Level, touch **Initialize** and **YES** in the confirmation screen.

## Controlling Audio

### Front Focus

This is the function to focus the imaginary sound image in front of the selected seat.

1 Touch **Front Focus** in the Position/DTA screen.

2 Select a front focus position.

For **Front All** and **All**, select Priority L or R depending on which side you want to put the imaginary sound image.

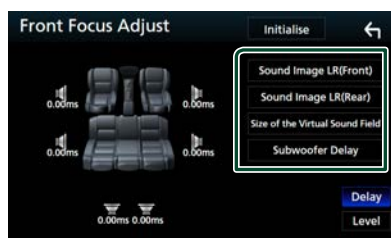


### Front Focus fine adjustment

1 Touch **Adjust**.

2 Touch **Delay**.

3 Set each item as follows.



#### ■ Sound Image LR (Front)

Adjust the sound image to focus on in front of front seats.

#### ■ Sound Image LR (Rear)

Adjust the sound image to focus on in front of rear seats.

#### ■ Size of the Virtual Sound Field

Adjust the size of sound image to meet your taste. If the sound image is shifted from the front, adjust it by **Sound Image LR (Front)** or **Sound Image LR (Rear)**.

#### ■ Subwoofer Delay

Adjust the delay time of subwoofer.

4 Touch **Level**.

5 Touch ◀ or ▶ to adjust the sound level of the selected speaker.



### NOTE

- To return to the initial setting of Delay and Level, touch **Initialize** and **YES** in the confirmation screen.



# Remote control

This unit can be operated using the remote control KNA-RCDV331 (optional accessory).

## ⚠ CAUTION

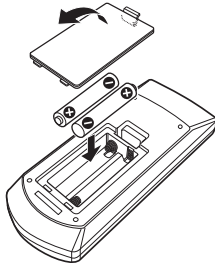
- Put the remote control in a place where it will not move during braking or other operations. A dangerous situation could result, if the remote control falls down and gets wedged under the pedals while driving.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.
- Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.

## Battery Installation

If the remote control operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted.

In such instances, replace the both batteries with new ones.

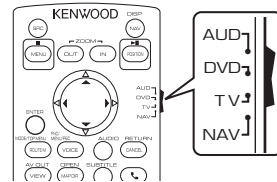
- 1 Insert two "AAA"/"R03"-size batteries with the  $\oplus$  and  $\ominus$  poles aligned properly, following the illustration inside the case.



## Functions of the Remote control Buttons

### ■ Switch the operation mode

The functions operated from the remote control differ depending on the position of the mode switch.



#### ■ AUD mode

Switch to this mode when controlling a selected source or tuner source, etc.

#### ■ DVD mode

Switch to this mode when playing a disc media including DVD, VCD, and CD.

#### ■ NAV mode

Switch to this mode when controlling navigation function.

#### ■ TV mode

Not used.

### NOTE

- When controlling a player that is not integrated in the unit, select "AUD" mode.

## Direct search mode

Using the remote control, you can jump directly to the desired file, track chapter, etc. with entering the number corresponding to the content.

### NOTE

- This operation cannot be performed for USB device and iPod.

### 1 Press the #BS button several times until the desired content appears.

The available contents are different depending on the source.

#### DVD

Title number/Chapter number

#### VCD 1.X and 2.X (PBC OFF)

Track number

#### VCD 2.X (PBC ON)

Scene number/Track number

#### Music CD

Track number

#### SiriusXM

Channel number

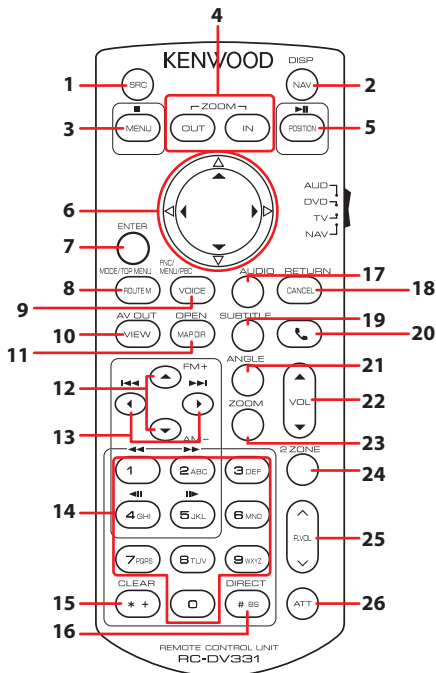
### 2 Enter the number of the content you want to play using the numeric keypad.

### 3 For DVD or VCD, music CD, press the ENTER button.



For radio, press the ◀ or ▶ button.

▶ The content you entered is played.

## Basic operations



|   | Key Name   | Mode switch | Function   |
|---|------------|-------------|--|
| 1 | SRC        | AUD, DVD    | Switches to the source to be played.<br>In hands-free mode, hangs up the phone.  |
| 2 | NAV        | —           | Switches the screen between the navigation, the current source and the App screen from the connected iPhone/Android.         |
| 3 | MENU       | DVD         | Stops playing and memorizes the last point where the disc stopped. The last point is deleted by pressing twice.              |
|   |            | NAV         | Displays Main menu.  |
| 4 | OUT, IN    | NAV         | Zooms in or out the navigation map.  |
| 5 | POSITION   | AUD, DVD    | Pauses the track or file, and resumes playing by pressing twice.<br>During radio source in AUD mode, switches the seek mode. |
|   |            | NAV         | Displays the current position.   |
| 6 | Cursor Key | DVD         | Moves the cursor in the DVD menu.  |
|   |            | NAV         | Moves the cursor or scrolls the map.   |
| 7 | ENTER      | —           | Performs the selected function.  |

|    | Key Name  | Mode switch | Function  |
|----|---|-------------|---|
| 8  | ROUTE M   | AUD         | Screen mode changes each time you press this key during video playback.   |
|    |   | DVD         | Returns to the DVD top menu.  |
|    |   | NAV         | Displays Route Option menu.   |
| 9  | VOICE   | AUD         | Displays the control screen of current source. (USB, SD, iPod, DISC)  |
|    |   | DVD         | Displays the DVD menu.<br>Turns the playback control on or off while playing VCD.   |
|    |   | NAV         | Speaks the voice guidance.  |
| 10 | VIEW  | AUD, DVD    | Switches the AV source to be output.  |
|    |   | NAV         | Switches between 2D and 3D map displays.  |
| 11 | MAP DIR   | AUD, DVD    | Switches the display angle each time it is pressed.   |
|    |   | NAV         | Switches between the heading up navigation and north up navigation map displays.  |
| 12 | ▲/▼   | AUD, DVD    | Selects the folder to be played.<br>During radio source in AUD mode, select FM/ AM band to be received.<br>During SiriusXM source in AUD mode, switches the bands to be received.<br>During DVD/VCD source in DVD mode, selects the title to be played. |
| 13 | ◀▶  | AUD, DVD    | Selects the track or file to be played.<br>During radio, and SiriusXM source in AUD mode, switches to broadcast stations received by the unit.<br>During DVD/VCD source in DVD mode, selects the chapter/scene/track to be played.                      |
| 14 | Numeric Keypad  | AUD         | Specifies the number to search in direct search.<br>For details on the direct search mode, see <b>Direct search mode (P.82)</b> .   |
|    |   | DVD         | <ul style="list-style-type: none"> <li>Press <b>1 2</b> to fast forward/backward.</li> <li>Press <b>4 5</b> to slow forward/backward. Switches the slow playback speed each time you press this key.*</li> </ul> *DVD only                              |
| 15 | * +   | DVD         | During DVD/VCD source, deletes a character while in direct search mode.   |
| 16 | # BS  | AUD, DVD    | Switches to the direct search mode.<br>For details on the direct search mode, see <b>Direct search mode (P.82)</b> .  |
| 17 | AUDIO   | DVD         | Switches the voice language each time you press this key.   |
| 18 | CANCEL  | DVD         | Displays previous screen.   |
|    |   | NAV         | Cancels the operations.   |
| 19 | SUBTITLE  | DVD         | Switches the subtitle language.   |
| 20 |        | –           | When a call comes in, answers the call.   |
| 21 | ANGLE   | DVD         | Switches the picture angle each time you press this key.  |
| 22 | Vol ▲▼  | –           | Adjusts the volume.   |
| 23 | ZOOM  | DVD         | Switches the zoom ratio (2, 3, 4, Off) each time you press this key.  |
| 24 | 2 ZONE  | AUD, DVD    | Switches the Dual Zone function on and off.   |
| 25 | R.VOL  | –           | Adjusts volume at rear when the Dual Zone function is on.   |
| 26 | ATT   | –           | Lowers the volume by pressing the key once.<br>Restores the previous volume by pressing the key twice.  |

# Connection/Installation

## Before Installation

Before installation of this unit, please note the following precautions.

### ▲ WARNINGS

- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.

### ▲ CAUTION

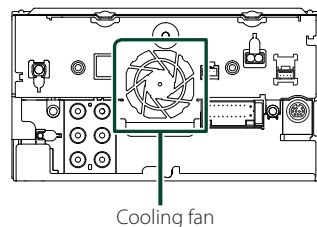
- Install this unit in the console of your vehicle. Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

### NOTE

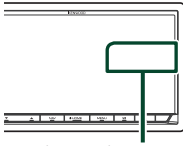
- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON ("There is an error in the speaker wiring. Please check the connections." is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the

ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.

- If the console has a lid, make sure to install the unit so that the front panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit is blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.












- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- Reception may drop if there are metal objects near the Bluetooth antenna.



Bluetooth antenna unit

### Supplied accessories for installation

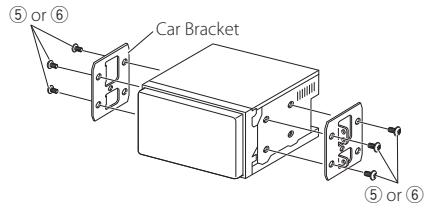
|   |   |    |
|---|---|----|
| ① |              | x1 |
| ② |  (Black 1 m) | x1 |
| ③ |  (Gray 1 m)  | x1 |
| ④ |  (3 m)       | x1 |
| ⑤ |  (M5 x 8 mm) | x6 |
| ⑥ |  (M5 x 8 mm) | x6 |
| ⑦ |              | x1 |
| ⑧ |  (5 m)     | x1 |
| ⑨ |            | x1 |

## Installation procedure

- 1) To prevent a short circuit, remove the key from the ignition and disconnect the  $\ominus$  terminal of the battery.
- 2) Make the proper input and output wire connections for each unit.
- 3) Connect the speaker wires of the wiring harness.
- 4) Connect the wiring harness wires in the following order; ground, battery, ignition.
- 5) Connect the wiring harness connector to the unit.
- 6) Install the unit in your car.
- 7) Reconnect the  $\ominus$  terminal of the battery.
- 8) Perform the Initial Setup.  
See **Initial setup (P.9)**.

## Installing the unit

### Japanese cars

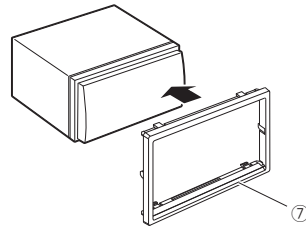


#### NOTE

- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

### Trim plate

- 1) Attach accessory ⑦ to the unit.

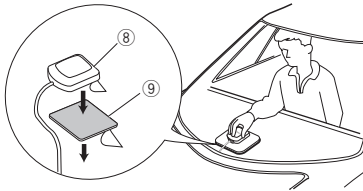


## GPS antenna

GPS antenna is installed inside of the car. It should be installed as horizontally as possible to allow easy reception of the GPS satellite signals.

To mount the GPS antenna inside your vehicle:

- 1) Clean your dashboard or other surface.
- 2) Remove the separator of the metal plate (accessory ⑨).
- 3) Press the metal plate (accessory ⑨) down firmly on your dashboard or other mounting surface. You can bend the metal plate (accessory ⑨) to conform to a curved surface, if necessary.
- 4) Remove the separator of the GPS antenna (accessory ⑧), and stick the antenna to the metal plate (accessory ⑨).

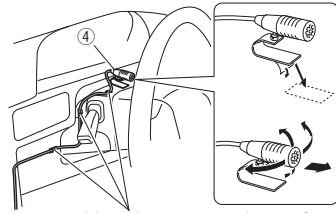


### NOTE

- Depending on the type of car, reception of the GPS satellite signals might not be possible with an inside installation.
- Please install this GPS antenna in an area away from any antennas that are used with CB radios or satellite televisions.
- The GPS antenna should be installed at a position that is spaced at least 12 inch (30 cm) from cellular phone or other transmitting antennas. Signals from the GPS satellite may be interfered with by these types of communication.
- Painting the GPS antenna with (metallic) paint may cause a drop in performance.

## Microphone unit

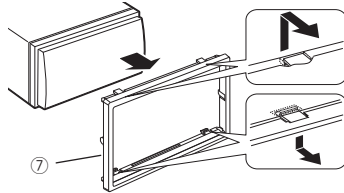
- 1) Check the installation position of the microphone (accessory ④).
- 2) Clean the installation surface.
- 3) Remove the separator of the microphone (accessory ④), and stick the microphone to the place shown below.
- 4) Wire the microphone cable up to the unit with it secured at several positions using tape or other desired method.
- 5) Adjust the direction of the microphone (accessory ④) to the driver.



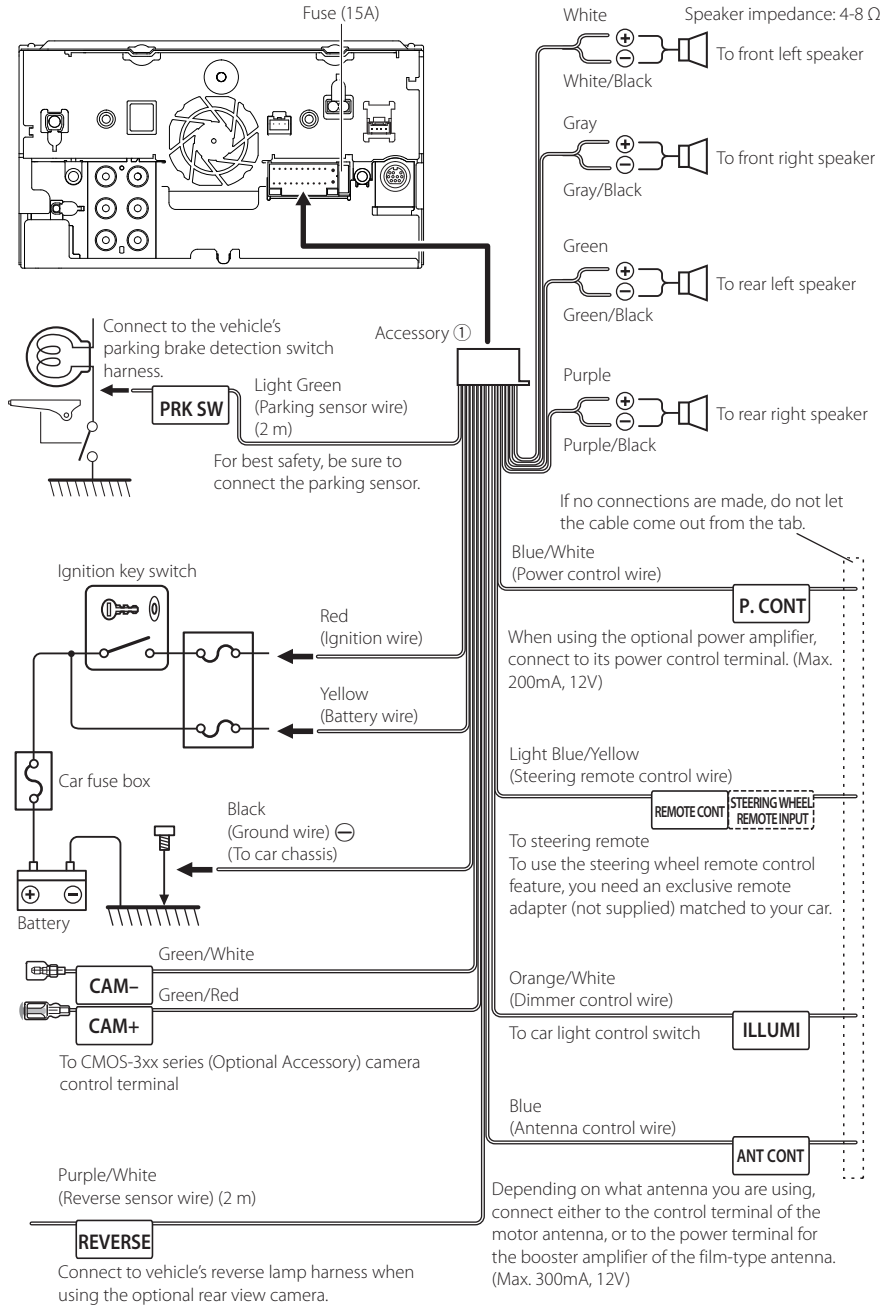
Fix a cable with a commercial item of tape.

## Detaching the trim plate

- 1) Detach accessory ⑦ to the unit.

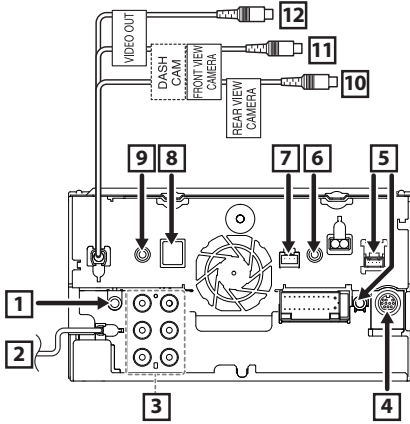



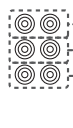
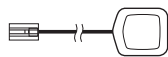
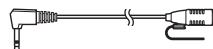
## Connecting wires to terminals





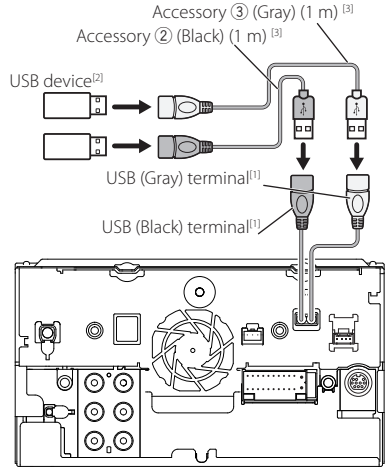
## Connecting the system and external components



|          |   |
|----------|---|
| <b>1</b> | AV Audio output (ø3.5 mini jack)  |
| <b>2</b> | FM/AM antenna input<br>  |
| <b>3</b> | When connecting to an external amplifier, connect its ground wire to the car's chassis to avoid damaging the unit.<br><br><div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>--- Rear Audio Preout<br/>(Left; White, Right; Red)</p> <p>--- Front Audio Preout<br/>(Left; White, Right; Red)</p> <p>--- Subwoofer Preout<br/>(Left; White, Right; Red)</p> </div>  </div> |
| <b>4</b> | SiriusXM Connect Vehicle Tuner connector<br>For more information on how to install the SiriusXM Connect Vehicle tuner, consult the installation guide included with the tuner.  |
| <b>5</b> | iDatalink connector   |
| <b>6</b> | AV-IN (CA-C3AV; Optional Accessory) input   |
| <b>7</b> | Dashboard camera interface<br>Connect a Dashboard Camera DRV-N520 (optional accessory). <b>(P.90)</b>   |
| <b>8</b> | Accessory ⑧: GPS Antenna<br>   |
| <b>9</b> | Accessory ④: Bluetooth Microphone<br>  |

|           |  |
|-----------|--|
| <b>10</b> | Rear view camera input (Yellow)                    |
| <b>11</b> | Front view camera/ Dashboard camera input (Yellow) |
| <b>12</b> | Visual Output (Yellow)                             |

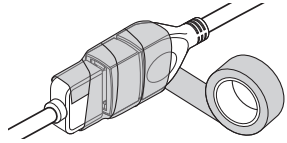
## Connecting a USB device



- <sup>[1]</sup> USB maximum power supply current : DC 5 V  $\pm$  1.5 A
- <sup>[2]</sup> Sold separately / Use CA-U1EX to extend the cable if necessary. (Max 500 mA, 5V)
- <sup>[3]</sup> See **Securing the USB extension cable (P.89)**.

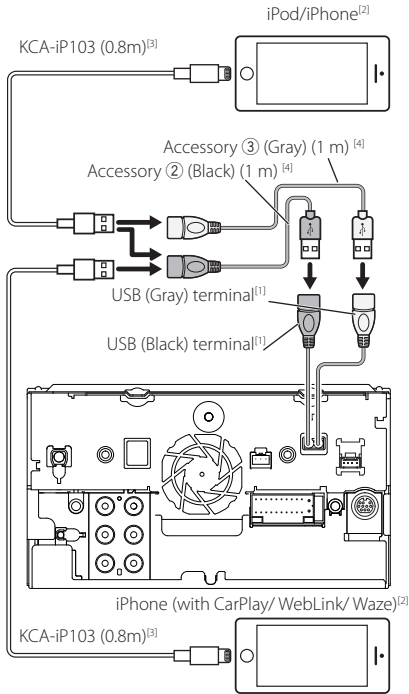
## Securing the USB extension cable

Secure the USB extension cable with insulating tape or the like so that its connectors are not disconnected.



## Connecting an iPod/iPhone

### ● Lightning connector



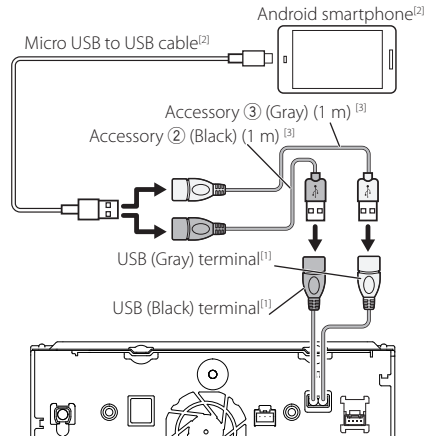
<sup>[1]</sup> USB maximum power supply current :  
DC 5 V  $\equiv$  1.5 A

<sup>[2]</sup> Sold separately

<sup>[3]</sup> Optional accessory

<sup>[4]</sup> See **Securing the USB extension cable (P.89)**.

## Connecting an Android smartphone

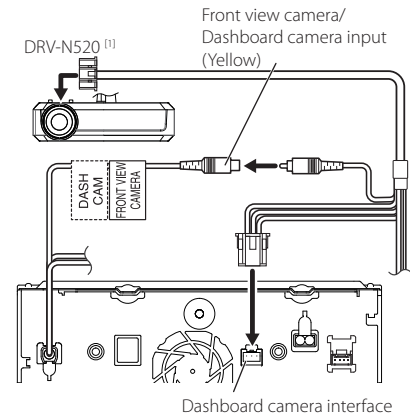


<sup>[1]</sup> USB maximum power supply current :  
DC 5 V  $\equiv$  1.5 A

<sup>[2]</sup> Sold separately

<sup>[3]</sup> See **Securing the USB extension cable (P.89)**.

## Connecting a Dashboard camera



<sup>[1]</sup> Optional accessory

# Troubleshooting

## Problems and Solutions

If any trouble occurs, first check the following table for possible problems.

### NOTE

- Some functions of this unit may be disabled by some settings made on this unit.
- What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring.

### About settings

- **Cannot set up the subwoofer.**
- **Cannot set up subwoofer phase.**
- **No output from the subwoofer.**
- **Cannot set up the low pass filter.**
- **Cannot set up the high pass filter.**

Subwoofer is not set to on.

- Set the subwoofer to on. See *Speaker/X'over setup (P.74)*.

The dual zone function is enabled.

- Set the dual zone function to off. See *Zone Control (P.77)*.

- **Cannot select the output destination of the subsource in the dual zone.**
- **Cannot adjust the volume of the rear speakers.**

The dual zone function is disabled.

- Set the dual zone function to on. See *Zone Control (P.77)*.

- **Cannot set up the equalizer.**
- **Cannot set up the crossover network.**

The dual zone function is enabled.

- Set the dual zone function to off. See *Zone Control (P.77)*.

### About audio operations

#### Radio reception is poor.

The car antenna is not extended.

- Pull out the antenna all the way.

The antenna control wire is not connected.

- Connect the wire correctly. See *Connecting the system and external components (P.89)*.

#### Cannot select a folder.

The random play function is enabled.

- Turn off the random function.

#### Cannot perform repeat play during VCD playback.

The PBC function is enabled.

- Turn off the PBC function.

#### The specified disc does not play, but another one plays instead.

The disc is quite dirty.

- Clean the disc. See *Precautions on handling discs (P.4)*.

The disc is severely scratched.

- Try another disc instead.

#### The sound skips when an audio file is being played.

The disc is scratched or dirty.

- Clean the disc. See *Precautions on handling discs (P.4)*.

The recording condition is bad.

- Record the file again or use another disc.

### Other

#### The Touch Sensor Tone doesn't sound.

The preout jack is being used.

- The Touch Sensor Tone cannot be output from the preout jack.

#### Android smartphone operation is slow.

This occurs when multiple applications are started on the Android smartphone.

- For details, see *Caution for Smartphone Users (P.5)*.

## Error Messages

When you fail to operate the unit correctly, the cause of the failure appears as the message on the screen.

#### There is an error in the speaker wiring. Please check the connections.

Protective circuit has been activated because a speaker cord has shorted or it has come in contact with the car chassis.

- Wire or insulate the speaker cord as appropriate and turn the power off and on again.

#### Hot Error

When the internal temperature of this unit rises to 60°C or more, the protection circuit is activated and you may not be able to operate the unit.

- Use the unit again after reducing the temperature of the unit.

#### Mecha Error

The disc player is malfunctioning.

- Eject the disc and try inserting it again. Contact the KENWOOD dealer if this indicator continues blinking or the disc cannot be ejected.

## Troubleshooting

---

### Disc Error

An unplayable disc is inserted.

- Change the disc. See **Playable Media and Files (P.93)**.

---

### Read Error

The disc is quite dirty.

- Clean the disc. See **Precautions on handling discs (P.4)**.

Disc is upside down.

- Load the disc with the labeled side up.

---

### Region Code Error

The disc you wanted to play has a region code that cannot be played with this unit.

- See **Region Codes in the World (P.95)** or try another disc.

---

### Error 07–67

The unit is not operating correctly due to some reason or other.

- Turn the power off and on again. If the “Error 07–67” message does not disappear, see your nearest KENWOOD dealer.

---

### No Device (USB device)

The USB device is selected as a source although no USB device is connected.

- Change the source to any source other than USB/iPod. Connect a USB device, and change the source to USB again.

---

### Disconnected (iPod, Bluetooth audio player)

The iPod/Bluetooth audio player is selected as a source although no iPod/Bluetooth audio player is connected.

- Change the source to any source other than iPod/Bluetooth. Connect an iPod/Bluetooth audio player, and change the source to iPod/Bluetooth again.

---

### No Media file

The connected USB device contains no playable audio file. Media was played that doesn't have data recorded that the unit can play.

- See **Playable Media and Files (P.93)** and try another USB device.

---

### USB device over current status detected.

The connected USB device is rated a current capacity higher than the allowable limit.

- Check the USB device. Some trouble may have occurred to the connected USB device.
- Change the source to any source other than USB. Remove the USB device.

---

### Navigation Error. Please turn on power again later.

The communication error has occurred due to severely cold temperature.

- Turn on power again after warming your car interior.

---

## SiriusXM

---

### Check Tuner

A SiriusXM tuner is not connected to this unit.

- Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.

---

### Subscription Updated - Press Return To Continue

The SiriusXM subscription has been renewed.

- Pressing the Control knob will clear the message.

---

### SXM Chan Unavailable

The currently selected channel is unavailable.

- Visit [www.siriusxm.com](http://www.siriusxm.com) for more information about the SiriusXM channel lineup.

---

### SXM Ch Unsubscribed

The currently selected channel is not subscribed to.

- In the U.S.A., visit [www.siriusxm.com](http://www.siriusxm.com) or call 1-866-635-2349 if you have questions about your subscription package or would like to subscribe to this channel.
- In Canada, visit [www.siriusxm.ca](http://www.siriusxm.ca) or call 1-877-438-9677.

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### SXM Check Antenna

No antenna is connected to the SiriusXM tuner.

- Check that an antenna is connected to the SiriusXM tuner. Check antenna for damages.

---

### SXM No Signal

No SiriusXM radio signal is received.

- Verify that your vehicle is outdoors with a clear view of the sky.

---

### Channel Locked

The selected channel has been locked by the parental controls.

- Enter the unlock code when you are asked. See **Parental Control (P.50)**.

---

### Incorrect Pass Code entered

The selected channel is a mature or parental lock channel, and locked by the parental lock or user lock code.

- Enter the correct lock code.

# Appendix

## Playable Media and Files

You can play various kinds of media and files on this unit.

### List of playable discs

| Disc types / Standard   |                       | Support | Remark   |
|-------------------------|-----------------------|---------|--|
| DVD                     | DVD Video             | ○       |  |
|                         | DVD Audio             | ×       |  |
|                         | DVD-VR                | ×       |  |
|                         | DVD-R*1               | ○       | <ul style="list-style-type: none"> <li>• MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ MPEG1/ MPEG2/ MPEG4/ H.264/ WMV/ MKV playback</li> <li>• Multi-border/Multisession playback (Playback depends on authoring conditions)</li> </ul> |
|                         | DVD-RW                | ○       |  |
|                         | DVD+R                 | ○       |  |
|                         | DVD+RW                | ○       |  |
|                         | DVD-R DL (Dual layer) | ○       | Only video format  |
| DVD+R DL (Double layer) | ○                     |         |  |
|                         | DVD-RAM               | ×       |  |
| CD                      | Music CD*1            | ○       |  |
|                         | CD-ROM                | ○       | <ul style="list-style-type: none"> <li>• MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis playback</li> <li>• Multisession is supported.</li> <li>• Packet write is not supported.</li> </ul>  |
|                         | CD-R                  | ○       |  |
|                         | CD-RW                 | ○       |  |
|                         | DTS-CD                | ×       |  |
|                         | Video CD (VCD)        | ○       |  |
|                         | Super video CD        | ×       |  |
|                         | Photo CD              | ×       |  |
|                         | CD-EXTRA              | △       | Only music CD session can be played.   |
|                         | HDCD                  | △       | Normal music CD sound quality  |
|                         | CCCD                  | ×       |  |
| Others                  | Dualdisc              | ×       |  |
|                         | Super audio CD        | △       | Only CD layer can be played.   |

○ : Playback is possible.

△ : Playback is partly possible.

× : Playback is impossible.

\*1 Incompatible with 8 cm (3 inch) discs.

### Use of DualDisc

When playing a "DualDisc" on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible.

(A "DualDisc" is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

### About disc format

The disc format should be the one of the following.

- ISO 9660 Level 1/2
- Joliet
- Romeo
- Long file name

## About files

The following audio and video files are supported.

### Playable Audio files

|                             | Format  | Bit rate         | Sampling frequency                            | Bit count  |
|-----------------------------|---|------------------|---|------------|
| AAC-LC (.m4a)               | MPEG2/4 AAC LC<br>HE-AAC(V1,V2)                               | 8 – 320kbps, VBR | 16 – 48 kHz                                   | 16 bit     |
| MP3 (.mp3)                  | MPEG 1/2 Audio Layer 3  | 8 – 320kbps, VBR | 16 – 48 kHz                                   | 16 bit     |
| WMA (.wma)                  | Windows Media Audio<br>Standard L3 profile<br>(Version 7,8,9) | 8 – 320kbps      | 16 – 48 kHz                                   | 16 bit     |
| Linear PCM<br>(WAVE) (.wav) | RIFF waveform Audio<br>Format                                 | –                | 16 – 48 kHz (Disc),<br>16 – 192 kHz (USB/ SD) | 16/ 24 bit |
| FLAC (.flac)                | flac  | –                | 16 – 48 kHz (Disc),<br>16 – 192 kHz (USB/ SD) | 16/ 24 bit |
| Vorbis (.ogg)               | vorbis  | VBR              | 16 – 48 kHz                                   | 16 bit     |
| DSD (.dsf, .dff)            | DSF, DSDIFF   | –                | 2.8 MHz, 5.6 MHz, 11.2 MHz                    | 1 bit      |

- If music of normal CD and other playback systems are recorded in the same disc, only the playback system recorded at the first setout is played.
- WMA and AAC of which is covered with DRM cannot be played.
- DSD sound is converted to PCM sound before playback.
- The EmChinks tag of DSDIFF is not supported.
- Although the audio files are complied with the standards listed above, the play may be impossible depending on the types or conditions of media or device.
- This unit supports playback of High-Resolution Audio files.  
It is recommended that a car audio system should be configured with all High-Resolution Audio compatible products from player to speaker to enjoy its high quality sound.

### Acceptable Video files

|  | Profile  | Max. Picture size    | Max. bit rate | Audio format                   |
|--|--|----------------------|---------------|--------------------------------|
| MPEG-1 (.mpg, .mpeg)                               | –  | 352 × 240, 352 × 288 | 1.5 Mbps      | MPEG Audio Layer 2             |
| MPEG-2 (.mpg, .mpeg)                               | MP@ML  | 720 × 480, 720 × 576 | 8 Mbps        | MPEG Audio Layer 2             |
| H.264/MPEG-4 AVC<br>(.mp4, .m4v, .avi, .flv, .f4v) | Baseline Profile,<br>Main Profile                  | 1920 × 1080 (30 fps) | 8 Mbps        | MP3, AAC                       |
| MPEG-4 (.mp4, .avi)                                | Advanced Simple<br>Profile                         | 1920 × 1080 (30 fps) | 8 Mbps        | MP3, AAC                       |
| WMV (.wmv)   | Main Profile                                       | 1920 × 1080 (30 fps) | 8 Mbps        | WMA                            |
| MKV (.mkv)   | Video Format follows H.264/MPEG-4 AVC, MPEG-4, WMV |                      |               | MP3, AAC, WMA, Vorbis,<br>FLAC |

- This unit can only play back files which are less than 4 GB.

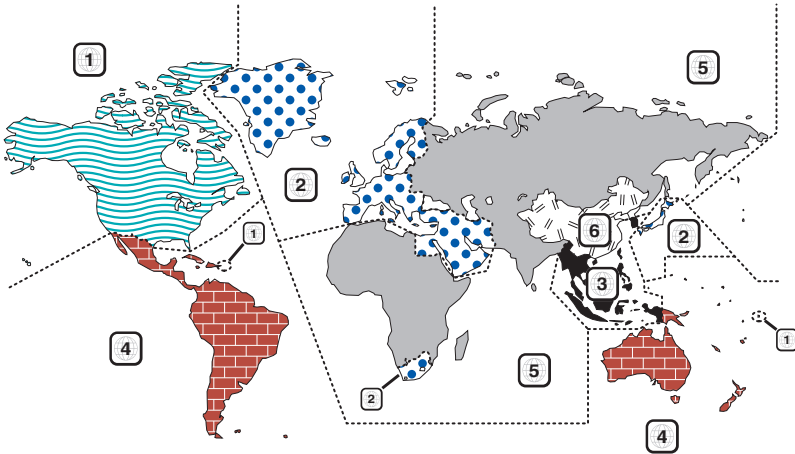
### Limitation of structure for the file and the folder

|  | Disc media | USB device/ SD |
|--|------------|----------------|
| Maximum number of folder layers        | 8          | 8              |
| Maximum number of files (per folder)   | 999        | 999            |
| Maximum number of folders (per folder) | 5000       | 9999           |
| Maximum number of folders (per device) | 5000       | Unlimited      |

- You can enter a folder name and file name with 255 or fewer single-byte characters.
- Files in the folder whose folder name begins with a dot (.) cannot be played.

## Region Codes in the World

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



### ■ DVD disc marks



Indicates a region number. The discs with this mark can be played with any DVD player.



Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.



Indicates the number of subtitled languages recorded. Up to 32 languages can be recorded.



If a DVD disc has scenes shot from multiple angles, you can select a favorite angle.



Indicates the type of screen for the image. The left mark indicates that a wide image picture (16:9) is displayed on a standard TV set screen (4:3) with a black band at both the top and bottom of the screen (letter box).

### ■ Operation regulatory marks

With this DVD, some functions of this unit such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.



### ■ Discs with limited period of use

Do not leave discs with a limited period of use in this unit. If you load an already expired disc, you may not be able to remove it from this unit.

## DVD Language Codes

| Code | Language        |
|------|-----------------|
| aa   | Afar            |
| ab   | Abkhazian       |
| af   | Afrikaans       |
| am   | Amharic         |
| ar   | Arabic          |
| as   | Assamese        |
| ay   | Aymara          |
| az   | Azerbaijani     |
| ba   | Bashkir         |
| be   | Byelorussian    |
| bg   | Bulgarian       |
| bh   | Bihari          |
| bi   | Bislama         |
| bn   | Bengali, Bangla |
| bo   | Tibetan         |
| br   | Breton          |
| ca   | Catalan         |
| co   | Corsican        |
| cs   | Czech           |
| cy   | Welsh           |
| da   | Danish          |
| de   | German          |
| dz   | Bhutani         |
| el   | Greek           |
| en   | English         |
| eo   | Esperanto       |
| es   | Spanish         |
| et   | Estonian        |
| eu   | Basque          |
| fa   | Persian         |
| fi   | Finnish         |
| fj   | Fiji            |
| fo   | Faroese         |
| fr   | French          |
| fy   | Frisian         |
| ga   | Irish           |
| gd   | Scots Gaelic    |
| gl   | Galician        |
| gn   | Guarani         |
| gu   | Gujarati        |
| ha   | Hausa           |
| he   | Hebrew          |
| hi   | Hindi           |
| hr   | Croatian        |
| hu   | Hungarian       |
| hy   | Armenian        |

| Code | Language         |
|------|------------------|
| ia   | Interlingua      |
| ie   | Interlingue      |
| ik   | Inupiak          |
| id   | Indonesian       |
| is   | Icelandic        |
| it   | Italian          |
| ja   | Japanese         |
| jv   | Javanese         |
| ka   | Georgian         |
| kk   | Kazakh           |
| kl   | Greenlandic      |
| km   | Cambodian        |
| kn   | Kannada          |
| ko   | Korean           |
| ks   | Kashmiri         |
| ku   | Kurdish          |
| ky   | Kirghiz          |
| la   | Latin            |
| lb   | Luxembourgish    |
| ln   | Lingala          |
| lo   | Laotian          |
| lt   | Lithuanian       |
| lv   | Latvian, Lettish |
| mg   | Malagasy         |
| mi   | Maori            |
| mk   | Macedonian       |
| ml   | Malayalam        |
| mn   | Mongolian        |
| mo   | Moldavian        |
| mr   | Marathi          |
| ms   | Malay            |
| mt   | Maltese          |
| my   | Burmese          |
| na   | Nauru            |
| ne   | Nepali           |
| nl   | Dutch            |
| no   | Norwegian        |
| oc   | Occitan          |
| om   | (Afan) Oromo     |
| or   | Oriya            |
| pa   | Punjabi          |
| pl   | Polish           |
| ps   | Pashto, Pushto   |
| pt   | Portuguese       |
| qu   | Quechua          |
| rm   | Rhaeto-Romance   |

| Code | Language       |
|------|----------------|
| rn   | Kirundi        |
| ro   | Romanian       |
| ru   | Russian        |
| rw   | Kinyarwanda    |
| sa   | Sanskrit       |
| sd   | Sindhi         |
| sg   | Sangho         |
| sh   | Serbo-Croatian |
| si   | Singhalese     |
| sk   | Slovak         |
| sl   | Slovenian      |
| sm   | Samoan         |
| sn   | Shona          |
| so   | Somali         |
| sq   | Albanian       |
| sr   | Serbian        |
| ss   | Siswati        |
| st   | Sesotho        |
| su   | Sundanese      |
| sv   | Swedish        |
| sw   | Swahili        |
| ta   | Tamil          |
| te   | Telugu         |
| tg   | Tajik          |
| th   | Thai           |
| ti   | Tigrinya       |
| tk   | Turkmen        |
| tl   | Tagalog        |
| tn   | Setswana       |
| to   | Tongan         |
| tr   | Turkish        |
| ts   | Tsonga         |
| tt   | Tatar          |
| tw   | Twi            |
| uk   | Ukrainian      |
| ur   | Urdu           |
| uz   | Uzbek          |
| vi   | Vietnamese     |
| vo   | Volapuk        |
| wo   | Wolof          |
| xh   | Xhosa          |
| yo   | Yoruba         |
| zh   | Chinese        |
| zu   | Zulu           |



## Specifications

### ■ Monitor section

#### Picture Size

- : 6.95 inches (diagonal) wide
- : 156.6 mm (W) × 81.6 mm (H)
- 6-3/16 × 3-3/16 inch

#### Display System

- : TN LCD panel

#### Drive System

- : TFT active matrix system

#### Number of Pixels

- : 1,152,000 (800H x 480V x RGB)

#### Effective Pixels

- : 99.99 %

#### Pixel Arrangement

- : RGB striped arrangement

#### Back Lighting

- : LED

### ■ DVD player section

#### D/A Converter

- : 24/ 32 bit

#### Audio Decoder

- : Linear PCM/ Dolby Audio/ MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis

#### Video Decoder

- : MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

#### Wow & Flutter

- : Below Measurable Limit

#### Frequency Response

- 96 kHz : 20 – 44,000 Hz
- 48 kHz : 20 – 22,000 Hz
- 44.1 kHz : 20 – 20,000 Hz

#### Total Harmonic Distortion

- : 0.010 % (1 kHz)

#### S/N Ratio (dB)

- : 90.5 dB

#### Dynamic Range

- : 89 dB

#### Disc Format

- : DVD-Video/ VIDEO-CD/ CD-DA

#### Quantifying Bit Number

- : 16/ 20/ 24 bit

### ■ USB interface section

#### USB Standard

- : USB 2.0 High Speed

#### File System

- : FAT 16/ 32, exFAT, NTFS

#### Maximum Power Supply Current

- : DC 5 V  1.5 A × 2

#### D/A Converter

- : 24/ 32 bit

#### Audio Decoder

- : MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ DSD

#### Video Decoder

- : MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

### ■ SD section

#### SD Standard

- : SD / SDHC / SDXC

#### Compatible File System

- : FAT 16/ 32, exFAT, NTFS

#### Capacity

- : Maximum 2T Byte

#### Data Transfer Rate

- : Maximum 25 Mbps

#### Audio Decoder

- : MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ DSD

#### Video Decoder

- : MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

### ■ Wi-Fi section

#### IEEE Standard

- : 802.11 a/b/g/n

#### Frequency Range

- : Dual Band ( 2.4GHz / 5GHz )

#### Channels

- : Auto(1-11ch) / Auto(149,153,157,161ch)

#### Transfer rates (MAX)

- : 11a:54 Mbps / 11b: 11 Mbps / 11g: 54 Mbps / 11n:150 Mbps

## Appendix

### ■ Bluetooth section

#### Technology

: Bluetooth Ver.3.0

#### Frequency

: 2.402 – 2.480 GHz

#### Output Power

: Power Class2

#### Maximum Communication range

: Line of sight approx. 10m (32.8 ft)

#### Audio Codec

: SBC/ AAC

#### Profile (Multi Profile support)

- HFP (V1.6) (Hands Free Profile)
- SPP (Serial Port Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (V1.5) (Audio/Video Remote Control Profile)
- PBAP (Phonebook Access Profile)

### ■ DSP section

#### Graphics equalizer

Band: 13 Band

Frequency (BAND1 – 13)

: 62.5/ 100/ 160/ 250/ 400/ 630/ 1k/ 1.6k/ 2.5k/ 4k/  
6.3k/ 10k/ 16k Hz

#### Gain

: -9/-8/-7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7/8/9 dB

#### 2Way X'Over

##### High pass filter

Frequency: Through, 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/  
120/ 150/ 180/ 220/ 250 Hz

Slope: -6/-12/-18/-24 dB/Oct.

##### Low pass filter

Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/  
150/ 180/ 220/ 250 Hz, Through

Slope: -6/-12/-18/-24 dB/Oct.

#### Position

##### Front / Rear /Subwoofer Delay

: 0 – 20.01 ft (0.03 or 0.04 ft Step)

##### Gain

: -8 – 0 dB

#### Subwoofer level

: -50 – +10 dB

### ■ FM tuner section

#### Frequency Range (step)

: 87.9 MHz – 107.9 MHz (200 kHz)

#### Usable Sensitivity (S/N : 30 dB)

: 9.3 dBf (0.8  $\mu$ V/ 75  $\Omega$ )

#### Quieting Sensitivity (S/N : 46 dB)

: 10.2 dBf (1.13  $\mu$ V/ 75  $\Omega$ )

#### Frequency Response

: 30 Hz – 15 kHz

#### S/N Ratio (dB)

: 75 dB (MONO)

#### Selectivity ( $\pm$ 400 kHz)

: Over 80 dB

#### Stereo Separation

: 45 dB (1 kHz)

### ■ AM tuner section

#### Frequency Range (step)

: 530 kHz – 1700 kHz (10 kHz)

#### Usable Sensitivity

: 28 dB $\mu$

## ■ Video section

Color System of External Video Input  
: NTSC

External Video Input Level (mini jack)  
: 1 Vp-p/ 75  $\Omega$

External Audio Max Input Level (mini jack)  
: 2 V/ 25 k $\Omega$

Video Input Level (RCA jacks)  
: 1 Vp-p/ 75  $\Omega$

Video Output Level (RCA jacks)  
: 1 Vp-p/ 75  $\Omega$

Audio Output Level (mini jack)  
: 1.2 V/ 10 k $\Omega$

## ■ Audio section

Maximum Power (Front & Rear)  
: 50 W  $\times$  4

Typical Power Output (Front & Rear)  
Full Bandwidth Power (at less than 1% THD)  
: 22 W  $\times$  4

Output frequency band  
: 20 – 88,000 Hz

Preout Level (V)  
: 4 V/ 10 k $\Omega$

Preout Impedance  
:  $\leq$  300  $\Omega$

Speaker Impedance  
: 4 – 8  $\Omega$

## ■ Navigation section

Receiver  
: High-sensitivity GPS receiver

Reception Frequency  
: 1575.42 MHz (C/A code)

Acquisition Times  
Cold : 29 seconds (typ)  
(All satellites at -130 dBm Without aiding)

Update Rate  
: 1/second, continuous

Accuracy  
Position: <2.5 meters, CEP, at -130 dBm  
Velocity: 0.1 meter/sec

Position Method  
: GPS

Antenna  
: External GPS antenna

## ■ General

Operating Voltage  
: 14.4 V (10.5 – 16 V allowable)

Maximum Current Consumption  
: 15 A

Installation Dimensions (W  $\times$  H  $\times$  D)  
: 178  $\times$  100  $\times$  160 mm  
7-3/16  $\times$  4-7/16  $\times$  6-5/16 inch  
With Sleeve  
: 182  $\times$  112  $\times$  153 mm  
7-3/16  $\times$  4-7/16  $\times$  6 inch

Operational Temperature Range  
: -10  $^{\circ}$ C – +60  $^{\circ}$ C

Weight  
: 2.5 kg (5.5 lbs)

### NOTE

- Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

**Specifications subject to change without notice.**

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## Appendix

### ■ FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

#### NOTE

- 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

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

JVC KENWOOD Corporation  
2967-3, ISHIKAWA-MACHI,  
HACHIOJI-SHI, TOKYO, JAPAN

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21 CFR SUBCHAPTER J IN EFFECT AT DATE OF  
MANUFACTURE.

Location: Top plate

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

### ■ IC (Industry Canada) Notice

This device complies with Industry Canada's applicable licence-exempt RSSs.

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.

### ▲ CAUTION

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

### ■ CALIFORNIA, USA

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See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

■ Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países que hayan adoptado sistemas independientes de recogida de residuos)



Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos.

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