



KW-V660BT KW-V66BT

MONITOR WITH DVD RECEIVER
INSTRUCTION MANUAL

JVCKENWOOD Corporation

- Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from
<<https://www.jvc.net/cs/car/>>.



android
auto



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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 JVC dealer.

■ Precautions on using this unit

- When you purchase optional accessories, check with your JVC 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.45)**.
- 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.

■ How To Reset Your Unit

- If the unit or the connected unit fails to operate properly, reset the unit. Press the <Reset> button. The unit returns to factory settings.



NOTE

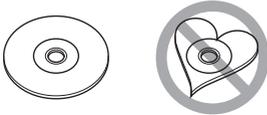
- Disconnect the USB device before pressing the <Reset> button. Pressing the <Reset> button with the USB device connected can damage the data stored in the USB device. For how to disconnect the USB device, see Disconnect the USB device **(P.22)**.
- When the unit is turned on after resetting, the Initial SETUP screen appears. See Initial setup **(P.7)**.

■ Lens fogging

- When you turn on the car heater in cold weather, dew may form on the lens in the disc player of the unit due to condensation. This condensation on the lens (also called lens fogging) may not allow discs to play. In such a situation, remove the disc and wait for the dew to evaporate. If the unit still does not operate normally after a while, consult your JVC 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 the disc from the center toward the outside rim.
- When removing a disc from this unit, pull it 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 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's instruction manual.)

Caution for Smartphone Users

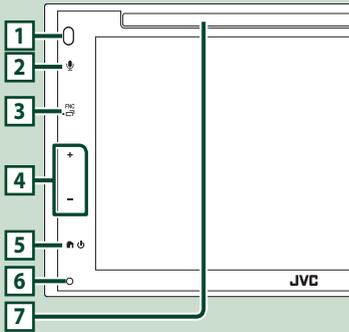
- Simultaneously running multiple applications on your smartphone while screen sharing places heavy demand on the microprocessor of the phone, potentially affecting communication and performance.
- For best results while pairing with your JVC receiver, please be sure to close any unused applications.

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.45)**.

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.

	Name
	Motion
1	Remote Sensor • Receives the remote control signal.
2	 • Displays the Voice Recognition screen (P.39).
3	FNC /  • Displays the FUNCTION screen. • Pressing for 1 second displays the APP (Apple CarPlay/ Android Auto) screen.
4	+ , - (Volume) • Adjusts volume. The volume will go up until 15 when you keep pressing +.
5	 • Displays the HOME screen (P.9). • Pressing for 1 second turns the power off. • When the power off, turns the power on.
6	Reset • If the unit or the connected unit fails to operate properly, the unit returns to initial settings when this button is pressed.
7	Disc insert slot • A slot to insert a disc media. (P.13)

Turning on the Unit

- 1 Press the  button.



- The unit is turned on.

● To turn off the unit:

- 1 Press the  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.7).

Getting Started

Initial setup

Perform this setup when you use this unit first time.

1 Set each item as follows.



■ Language

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

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

■ Clock

Adjusts clock.

For detailed operation, see *Calendar/clock settings (P.7)*.

■ Display

Set the image on the screen.

- ① Touch **Display**.
- ② Touch **Background**.
- ③ Select the image.
- ④ Touch .

For detailed operation, see *Display Setup (P.46)*.

■ Camera

Set the parameters for the camera.

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

For detailed operation, see *Camera Setup (P.42)*.

■ DEMO

Set the demonstration mode. Default is "ON".

- ① Touch **DEMO** and set **ON** or **OFF**.

2 Touch Finish.



NOTE

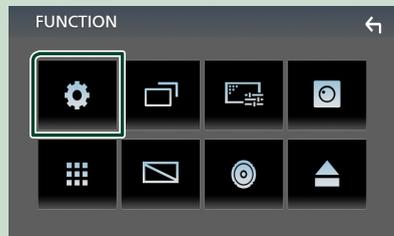
- These settings can be set from the SETUP menu. See *Setting Up (P.44)*.

Calendar/clock settings

1 Press the FNC button.

➤ FUNCTION screen appears.

2 Touch .



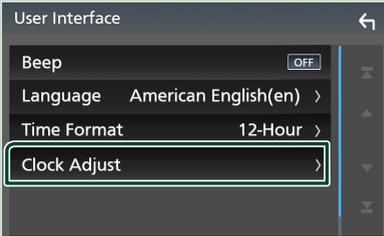
➤ SETUP Menu screen appears.

3 Touch User Interface.

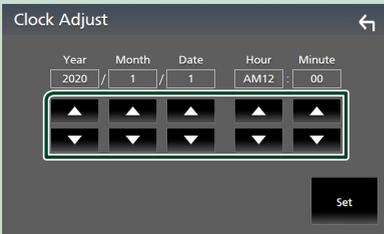


➤ User Interface screen appears.

4 Touch Clock Adjust.



5 Adjust the date, then adjust the time.



6 Touch Set.

NOTE

- Deactivate **RDS CT** before adjusting the clock. See **Tuner Setup (P.27)**.

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.

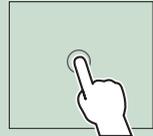


Touch screen operations

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.

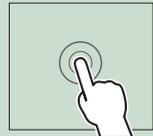
● **Touch**

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



● **Touch and hold**

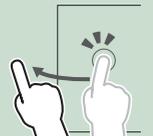
Touch the screen and keep your finger in place until the display changes or a message is displayed.



● **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**

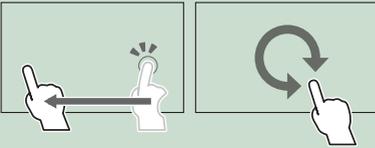
Slide your finger up or down on the screen to scroll the screen.



Gesture Touch Control:

You can also control playback by moving your finger on the touch panel as follows (for some sources, the gesture control is not available).

- Sliding the finger towards up/down:
 - Functions same as pressing **+** / **-** (Media) in the USB Control screen.
 - For the Tuner, tuner preset broadcast stations are switched.
- Sliding the finger towards left/right: Functions same as pressing **◀◀** / **▶▶**.
- Moving your finger clockwise or counter-clockwise: increases/decreases the volume.



HOME screen descriptions

Most functions can be performed from the HOME screen.



- | | |
|----------|---|
| 1 | • Short-cut playback source icons. (P.10) |
| 2 | • Current source information.
• Touch to display the control screen of current source. |
| 3 | • Widget |
| 4 | • Displays the source selection screen. (P.10) |
| 5 | • Displays the SETUP Menu screen. (P.44) |
| 6 | • Displays the Hands Free screen. (P.38)
• When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto. |

Display the HOME screen

- 1** Press the button.



- HOME screen appears.

Source selection screen descriptions

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



- | | |
|----------|--|
| 1 | • Changes the playback source.
For playback sources, see Select the playback source (P.10) . |
| 2 | • Returns to previous screen. |
| 3 | • Displays the SETUP Menu screen. (P.44) |

Select the playback source

- 1 Touch  on the HOME screen.
From the screen, you can select the following sources and functions.

	<ul style="list-style-type: none"> Switches to the Apple CarPlay screen from the connected iPhone. (P.19)
	<ul style="list-style-type: none"> Switches to the Android Auto screen from the connected Android smartphone. (P.20) It is necessary to connect Android smartphone compatible with Android Auto and to set Mode to Android Auto. (P.21)
	<ul style="list-style-type: none"> Switches to the USB Mirroring screen from the connected Android smartphone. (P.21) It is necessary to connect Android smartphone with "Mirroring OA for JVC" application installed and to set Mode to Mirroring for Android™. (P.21)
	<ul style="list-style-type: none"> Displays the Hands Free screen. (P.38) When neither Apple CarPlay, Android Auto, nor a Bluetooth Hands-Free phone is connected, displays "Disconnected" message in the TEL screen. When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.
	<ul style="list-style-type: none"> Switches to the Radio broadcast. (P.25)
	<ul style="list-style-type: none"> Plays a Bluetooth audio player. (P.34)
	<ul style="list-style-type: none"> Plays a disc. (P.13)
	<ul style="list-style-type: none"> Plays files on a USB device. (P.22)
	<ul style="list-style-type: none"> Switches to an external component connected to the AV-IN input terminal. (P.43)
	<ul style="list-style-type: none"> Switches to the SiriusXM® satellite radio broadcast. (P.28)
	<ul style="list-style-type: none"> Turns off the AV source. (P.10)

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.11)**

To turn off the AV source

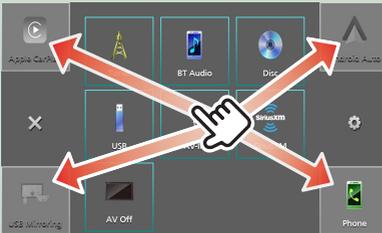
- 1 Touch  on the HOME screen.
- 2 Touch **AV Off**.



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.



Source control screen descriptions

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

Indicators



Sub menu



- 1  /  

Connected Bluetooth device information.

- 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.
 - **MUTE**: The mute function is active.
 - **LOUD**: The loudness control function is on.
- Sub menu
 - **DIM**: Operation when the icon is touched: The first touch darkens the screen further, the second touch darkens the screen further, and the third touch restores the screen to its original brightness.
 -  : Displays the Graphic Equalizer screen. (**P.50**)
 -  : Displays the APP (Apple CarPlay/ Android Auto) screen (**P.19**).

4

Touch to display the Hands Free screen. (**P.38**)

When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

FUNCTION screen

1 Press the **FNC** button.



➤ FUNCTION screen appears.

2 Touch to display the FUNCTION screen.



The contents of the menu are as follows.

	• Displays the SETUP Menu screen. (P.44)
	• Displays the APP (Apple CarPlay/ Android Auto) screen. (P.19)
	• Displays the Screen Adjust screen. (P.44)
	• Displays the view camera. (P.42)
	• Displays the source selection screen. (P.10)
	• Turns the display off. (P.12)
	• Displays the Audio screen. (P.48)
	• Touch to eject the disc. (P.13) • Touch for 2 seconds to forcibly eject the disc and then touch Yes after the message is displayed.
	• Close the FUNCTION screen.

Turn off the screen

1 Select on the FUNCTION screen.



● To turn on the screen

1 Touch the display.

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 **Play etc.**

Keys with various functions are displayed here.

- **Play** : Plays all files in the folder containing the current file.
- **Up** **Down** : 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

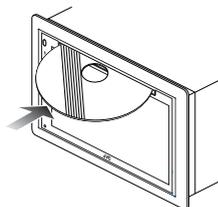
- Buttons which cannot be activated from the list screen are not displayed.

Disc

Playing a disc

Insert a disc

- 1 Insert the disc into the slot.



- The unit loads the disc and playback starts.

Eject a disc

- 1 Press the **FNC** button.
 - FUNCTION screen appears.

- 2 Touch .



When removing a disc, pull it horizontally.

NOTE

- To forcibly eject the disc, touch and hold  for 2 seconds and then touch **Yes** after the message is displayed.

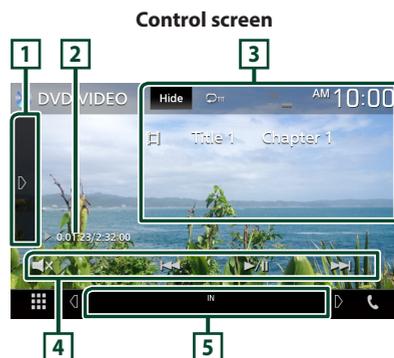
DVD/VCD Basic Operation

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

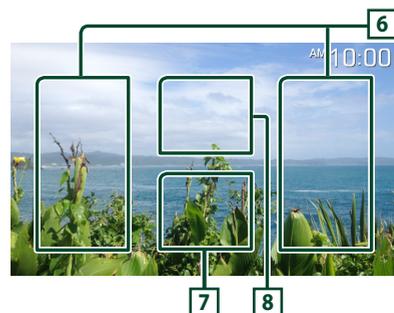
NOTE

- 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  area.



Video screen



- 1 **Function panel**

Touch 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.15)**.

2 Play mode indicator/Playing time

- **▶, ▶▶, ■, etc.:** Current play mode indicator
Meanings of the icons are as follows: **▶** (play), **▶▶** (fast forward), **◀◀** (fast backward), **■** (stop), **R** (resume stop), **||** (pause), **I▶** (slow playback), **◀I** (slow reverse playback).

3 Information display area

Displays the following information.

- **Hide:** Hides the control screen.
- **🔄:** Repeats the current content. Each time you touch the key, repeat modes are switched in the following sequence;
DVD: Title repeat (🔄_{TR}), Chapter repeat (🔄_{CP}), Repeat off (🔄_{OFF})
VCD (PBC On): Does not repeat
VCD (PBC Off): Track repeat (🔄_{TR}), Repeat off (🔄_{OFF})
- **Title #, Chapter #:** DVD title and chapter number
- **Track # / Scene #:** VCD track or scene number. Scene # is displayed only when Playback control (PBC) is on.
- **Linear PCM, etc.:** Audio format

4 Operation keys

- **◀◀ ▶▶:** Searches for the previous/next content.
Touch and hold to fast-forward or fast-backward the disc.
- **▶/||:** Plays or pauses.
- **🔇x:** Touch to mute or not to mute.

5 Indicator Items

- **IN:** Disc insertion status.
White: A Disc is inside the unit.
Orange: Disc player failure.

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 for the next/previous content.

7 Key display area

Touch to display the control screen.

8 MENU CTRL (DVD only)

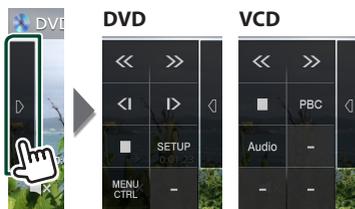
Touch to display the DVD-VIDEO disc menu control screen. See **DVD Disc Menu Operation (P.17)**.

NOTE

- The control screen disappears when no operation is done for 5 seconds.

Function panel

1 Touch on the left side of the screen.



The functions of each key are as follows.

⏮ ⏭: Fast-forwards or fast-backward the disc. Each time you touch the key, the speed changes.

⏪ ⏩ (DVD only): Plays in slow motion forward or backward.

■: Stops playback. Touching twice will play the disc from the beginning when you play it next time.

SETUP (DVD only): Touch to display the DVD SETUP screen.

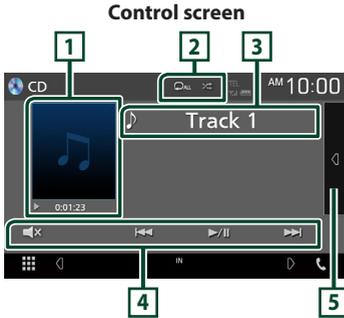
MENU CTRL (DVD only): Touch to display the DVD-VIDEO disc menu control screen. See **DVD Disc Menu Operation (P.17)**.

PBC (VCD only): Touch to turn Playback control (PBC) on or off.

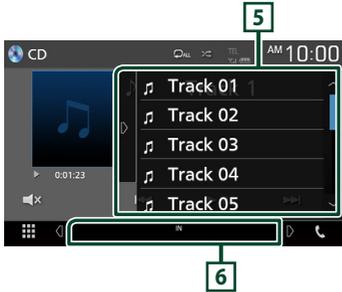
Audio (VCD only): Touch to change audio output channels.

Music CD Basic Operation

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



Open the drawer



1 Play mode indicator/Playing time

- ▶, ▶▶, etc.: Current play mode indicator
Meanings of the icons are as follows:
▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), || (pause).

2 Repeat/Random

- ◀◀ : Repeats the current track. Each time you touch the key, repeat mode switches in the following sequence;
Track repeat (◀◀), Repeat all (◀◀ALL)
- ▶▶ : Randomly plays all tracks in current disc. Each time you touch the key, random mode switches in the following sequence;
Track random (▶▶ALL), Random off (▶▶)

3 Track information

- Displays the information of the current track.

4 Operation keys

- ◀◀ ▶▶ : Searches for the previous/next content.
Touch and hold to fast-forward or fast-backward the disc.
- ▶|| : Plays or pauses.
- ◻x : Touch to mute or not to mute.

5 Content list

Touch 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 on the list, playback will start.

6 Indicator Items

- IN : Disc insertion status.
White: A Disc is inside the unit.
Orange: Disc player failure.

DVD Disc Menu Operation

You can set up some functions using the DVD-VIDEO disc menu.

1 Touch the framed area during playback.



➤ Menu Control screen appears.

2 Perform your desired operation as follows.



■ To display the top menu

Touch **TopMenu**.*

■ To display the menu

Touch **Menu**.*

■ To display the previous menu

Touch **Return**.*

■ To enter selected item

Touch **Enter**.

■ To enable direct operation

Touch **Highlight** to enter the highlight control mode (**P.17**).

■ To move the cursor

Touch ▲, ▼, ◀, ▶.

■ To switch among subtitle languages

Touch **Subtitle**. Each time you touch this key, subtitle languages are switched.

■ To switch among audio languages

Touch **Audio**. Each time you touch this key, audio languages are switched.

■ To switch among picture angles

Touch **Angle**. Each time you touch this key, picture angles are 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** on the Menu Control screen.

2 Touch your desired item on the screen.



NOTE

- The highlight control function is cancelled automatically if you do not operate for a predetermined period of time.

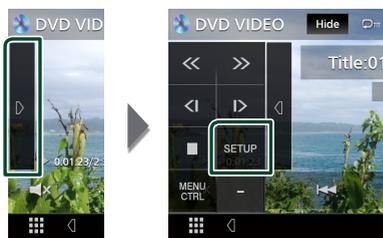
DVD Setup

You can set up the DVD playback functions.

1 Touch the framed area during playback.

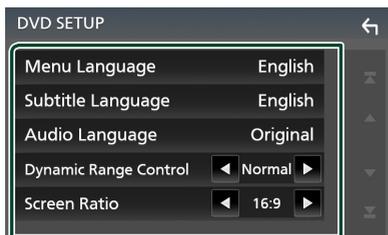


2 Touch on the left side of the screen. Touch **SETUP**.



► DVD SETUP screen appears.

3 Set each function as follows.



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

See **Language setup (P.18)**.

■ **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 the volumes in other modes. This is effective only when the Dolby Digital software is in use.

■ **Screen Ratio**

Sets the screen display mode.

16:9 (Default): Displays wide pictures.

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

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

■ **Language setup**

This setting is for the languages used for 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 codes, refer to **DVD Language Codes (P.64)**.

Touch Close to set the entered language and return to the DVD SETUP screen.

NOTE

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

APPS

Apple CarPlay Operation

Apple CarPlay is a smarter, safer way to use your iPhone in the car. Apple 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 Apple CarPlay, visit <https://www.apple.com/ios/carplay/>.

Compatible iPhone devices

You can use Apple CarPlay with the following iPhone models.

- iPhone 11 Pro Max
- iPhone 11 Pro
- iPhone 11
- iPhone XR
- iPhone XS Max
- iPhone XS
- iPhone X
- iPhone 8 Plus
- iPhone 8
- 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 KS-U62 via USB terminal. (P.58)

When iPhone compatible with Apple CarPlay is connected to the USB terminal, the Bluetooth smartphone currently connected is disconnected.

2 Unlock your iPhone.

Operation buttons and available Apps on the home screen of Apple 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 Apple CarPlay mode, touch

Apple CarPlay icon in the source selection screen. (P.10)



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

2 Application buttons

Starts the application.

3 HOME

Exits the Apple CarPlay screen and displays the Home screen.

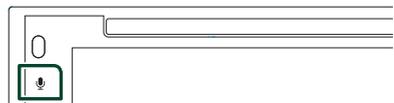
To exit the Apple CarPlay screen

1 Press the button.

Use Siri

You can activate Siri.

1 Press the button.



2 Talk to Siri.

Switch to the Apple CarPlay screen while listening to another source

1 Press the **FNC /** button for 1 second.



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 smartphone convenient for driving. You can easily access route guidance, make calls, listen to music, and access convenient functions on the Android smartphone while driving.

For details about Android Auto, visit <https://www.android.com/auto/> and <https://support.google.com/androidauto>.

Compatible Android smartphone

You can use Android Auto with Android smartphone of Android version 5.0 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 smartphone via USB terminal. (P.58)

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

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

2 Unlock your Android smartphone.

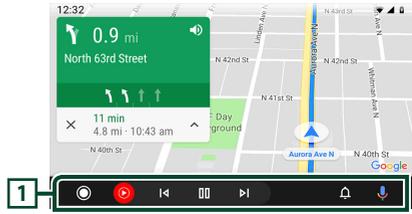
NOTE

- To use the Android Auto, It is necessary to set **Mode** to **Android Auto**. (P.21)

Operation buttons and available Apps on the Android Auto screen

You can perform the operations of the Apps of the connected Android smartphone. The items displayed on the screen differ among the connected Android smartphone.

To enter Android Auto mode, touch **Android Auto** icon in the source selection screen. (P.10)



1 Application/information buttons

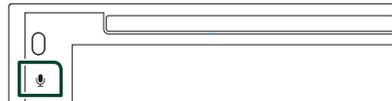
Starts the application or displays information.

To exit the Android Auto screen

1 Press the button.

Using voice control

1 Press the button.



To cancel

1 Press the button.

Switch to the Android Auto screen while listening to another source

1 Press the **FNC** / button for 1 second.



NOTE

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

USB Mirroring Operation (Android only)

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

Preparation

1 Download Mirroring App from the Google Play.

Install the latest version of the Mirroring application "Mirroring OA for JVC" on your Android.

2 Pair your smartphone with the unit via Bluetooth.

See *Register from the Bluetooth device (P.35)* and *Connect the Bluetooth device (P.36)*.

Select a Device Mode

1 Press the **FNC** button.

➤ FUNCTION screen appears.

2 Touch .

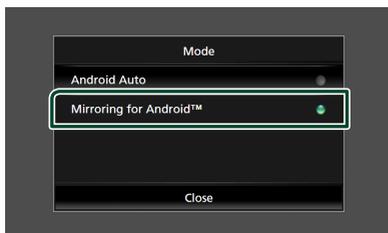
➤ SETUP screen appears.

3 Touch **Device**.



4 Touch **Mode**.

5 Touch **Mirroring for Android™**.



Compatible Android smartphone

- Android version 7.0 or later
- Linux Kernel version 3.5 or later
- Bluetooth support

NOTE

- This unit may not work for some Android smartphone's.

Connecting an Android smartphone

1 Connect an Android smartphone via the USB terminal.

2 Launch Mirroring App on your Android Smartphone.

Touch **OK** to start Mirroring App.

Touch **Start now** to start capturing your Android screen.

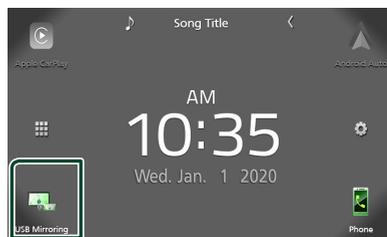
3 Start to enjoy Mirroring.

Mirroring OA Operation

1 Operate your smartphone to activate Mirroring App, then connect to this unit.

2 Press the button.

3 Touch **USB Mirroring**.

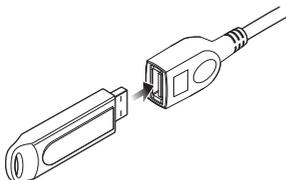


- You can display the same screen of the Android smartphone on the monitor of the unit.

USB

Connecting a USB device

- 1 Connect the USB device with the USB cable. (P.57)



- 2 Press the button.
- 3 Touch .
- 4 Touch **USB**. (P.10)

Disconnect the USB device

- 1 Press the button.
- 2 Touch .
- 3 Touch a source other than **USB**.
- 4 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

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.

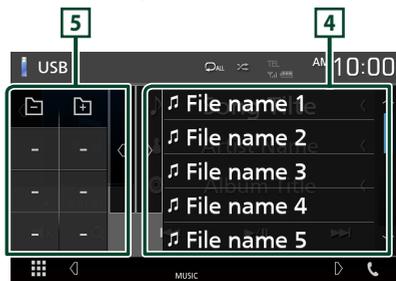
USB Basic Operation

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

Control screen



Open the drawer



1 **Artwork/ Play mode indicator/ Playing time**

The jacket of the currently playing file is displayed.

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

2  / 

-  : Repeats the current file/folder. Each time you touch the key, repeat mode switches in the following sequence;
File repeat (), Folder repeat (), Repeat all ()
-  : Randomly plays all files in current folder. Each time you touch the key, random mode switches in the following sequence;
File random (), Random off ()

3 **File information**

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

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 file name on the list, playback will start.

5 **Function panel**

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

-   : Searches previous/next folder.
- **ASPECT** (Only during video playback): Select screen mode.
Full : Changes the aspect ratio of video and displays fully on the screen.
Normal : Display with 4:3 ratio.
Auto : Displays video fully on vertical or horizontal with no ratio change.

6 **Operation keys**

-  : Searches file. For details on search operation, see **Search Operation (P.24)**.
-   : Searches the previous/next file.
Touch and hold to fast forward or fast backward.
-  : Plays or pauses.
-  : Touch to mute or not to mute.

7 **Indicator Items**

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

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

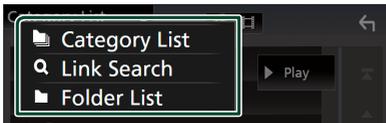
You can search music or video files by the following operations.

1 Touch **Q**.

2 Touch **▼**.



3 Select the list type.



NOTE

• For operations in the list screen, see **List screen (P.12)**.

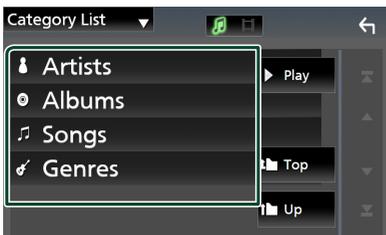
Category search

You can search a file by selecting category.

1 Touch **Category List**.

2 Select whether you search by audio files **🎵**.

3 Touch the desired category.



➤ The list corresponding to your selection appears.

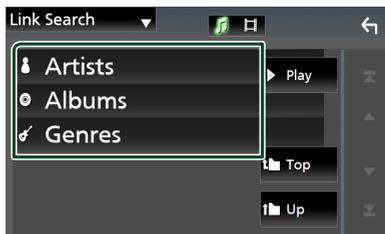
4 Touch to select desired item in the list. Repeat this step until you find the desired file.

Link search

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

1 Touch **Link Search**.

2 Touch the desired tag type. You can select from artist, album and genre.



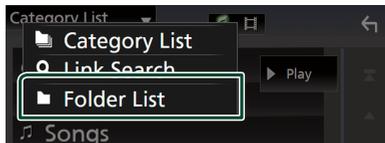
➤ The list corresponding to your selection appears.

3 Touch desired item from the content list.

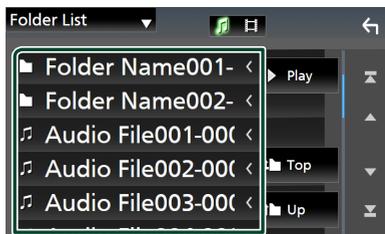
Folder search

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.

Tuner

Tuner Basic Operation

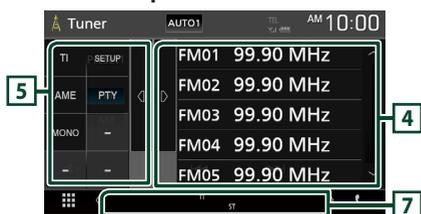
Most functions can be controlled from the source control screen.

To enter Tuner source, touch **Tuner** icon in the source selection screen. (P.10)

Control screen



Open the drawer



1 Information display

Displays the information of the current station:
Frequency

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

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

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).
- : Touch to mute or not to mute.

4 Preset list

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

5 Function panel

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

- **TI** (FM only): Sets the traffic information mode on. For details, see **Traffic Information (P.27)**.
- **SETUP**: Displays the Tuner SETUP screen. For details, see **Tuner Setup (P.27)**.
- **AME**: Presets stations automatically. For details, see **Auto memory (P.26)**.
- **PTY** (FM only): Searches a program by setting program type. For details, see **Search by program type (P.26)**.
- **MONO** (FM only): Select the Monaural reception.

6 FM AM

Switches the band.

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.

Memory Operation

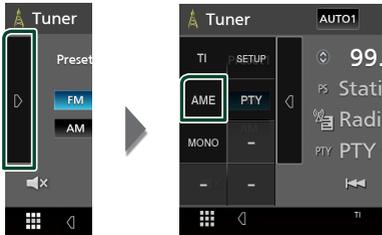
Auto memory

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**.



▶ A confirmation screen appears.

- 3 Touch **Yes**.

▶ Auto memory starts.

Manual memory

You can store the current receiving station in memory.

- 1 Select a station you wish to store in memory.
- 2 Touch **FM#** (#: 1-24) or **AM#** (#: 1-12) in which you want to store the station for 2 seconds.

Selecting Operation

Preset select

You can list and select memorized station.

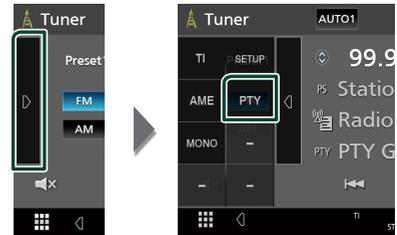
- 1 Touch **◀** on the right side of the screen. Select a station from the list.



Search by program type (FM only)

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

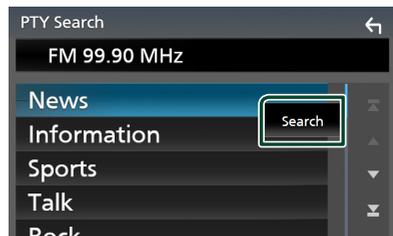
- 1 Touch **▶** on the left side of the screen. Touch **PTY**.



▶ PTY Search screen appears.

- 2 Select a program type from the list.

- 3 Touch **Search**.

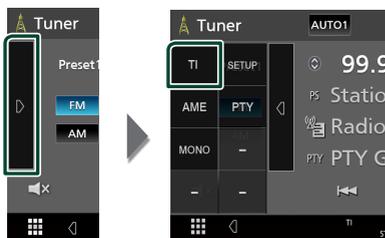


You can search a station of the selected program type.

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

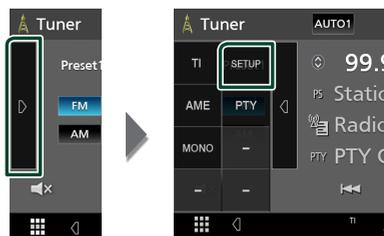
The Traffic Information screen appears automatically.



Tuner Setup

You can set tuner related parameters.

- 1 Touch **FM**.
- 2 Touch **▶** on the left side of the screen.
Touch **SETUP**.



▶ Tuner SETUP screen appears.

- 3 Set each item as follows.

■ RDS CT (FM only)

Synchronizing the Radio Data System station time data and this unit's clock.

"ON" (Default), "OFF"

■ Area Setting

The tuner channel interval changes depending on the area where you use this unit.

North America (Default): Select this when using in North America. FM/AM intervals are set to 200 kHz/10 kHz.

South America: Select this when using in South America. FM/AM intervals are set to 50 kHz/10 kHz.

Europe: Select this when using in any other areas. FM/AM intervals are set to 50 kHz/9 kHz.

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.

To listen to the SiriusXM source, touch the **SiriusXM** icon on the source selection screen. **(P.10)**

Activating subscription

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

NOTE

- To use SiriusXM® Satellite Radio, the optional accessory is necessary.

Control screen



Open the drawer



1 Information display

- Displays the information on the current channel: Channel Name
P# : Preset number
#CH : Channel number
 Touching  allows you to switch between Content A and Content B.
 - Content A: Artist Name, Song Title
 - Content B: Content Info, Category Name

NOTE

- While getting contents, "Waiting" is showing on the display.

2 Band button

Switches among bands. (SXM1/SXM2/SXM3)

3 Artwork / Function panel

- Displays the album artwork for most SiriusXM music channels.
- Touch **[D]** of the screen to display the function panel. Touch **[K]** to close the panel.
 - **Direct Channel**: Touch and enter the desired number. For details, see **Direct search (P.30)**.
 - **SETUP**: Touch to display the SiriusXM SETUP screen. For details, see **SiriusXM Setup (P.31)**.
 - **Replay/Live**: Touch to turn on or off the replay mode. See **Replay (P.31)**.

4 Operation keys

- **[Q]**: Display the Category search screen. For details on search operation, see **Category/Channel search (P.30)**.
- **[▶/||]**: Plays or pauses. See **Replay (P.31)**.
- **[CH▼ CH▲]**: Selects a channel.
- **[Mx]**: Touch to mute or not to mute.

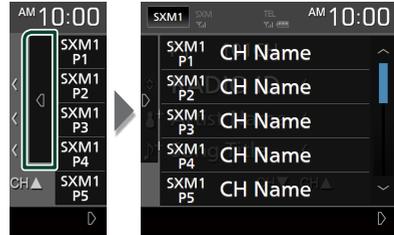
5 Preset list

- Touch **[K]** of the screen to display the preset list. Touch **[D]** to close the list.
- Recalls the memorized channel.
- When touched for 2 seconds, stores the currently being received channel in the memory.

Storing Channels in Preset Memory

You can store the current channel in memory.

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



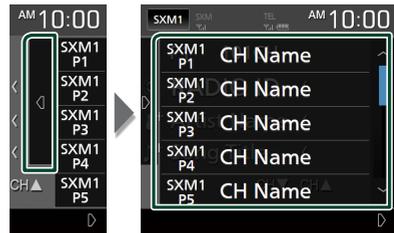
- 3 Touch **SXM(1-3) P(1-6)** in which you want to store the channel for 2 seconds.

Preset select

You can list and select memorized channels.

To select from the preset list

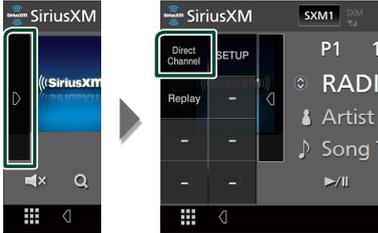
- 1 Touch **[K]** on the right side of the screen. Select a channel from the list.



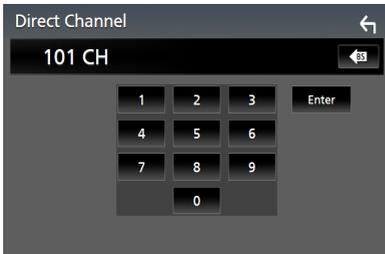
Direct search

You can tune in a channel directly.

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



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



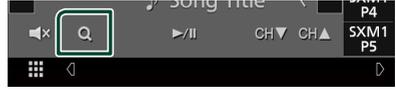
NOTE

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

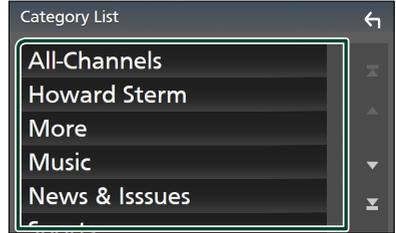
Category/Channel search

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.



*1 Select a desired item (**Info**, **CH Name**, **Artist**, **Title**).

NOTE

- All channels in the selected category appear.
- Touching **All-Channels** displays all channels.

Replay

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

- 1 Touch **▶||** 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**

Displays the recorded data capacity and playback position.

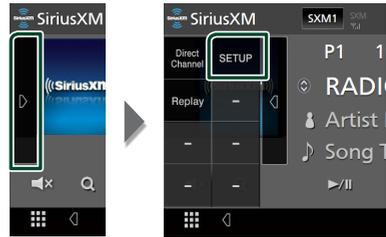
▶, ▶▶, etc.: Current play mode indicator

To return to live music/content

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

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.32**)
 - Set up the Parental Control (**P.32**)
 - Set up the Parental Lock Channel (**P.33**)
 - Reset to the default settings (**P.33**)

Parental code

You can set a SiriusXM parental code for Parental Control.

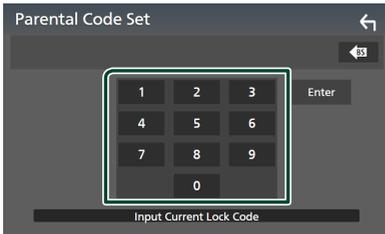
1 Touch **Parental Code** on the SiriusXM SETUP screen.

- Parental Code Set screen appears.

NOTE

- The code number is set to “1111” as default.

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



- Parental Code 1st screen appears.

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



- Parental Code 2nd screen appears.

4 Enter the same code number as that you entered in step 3 and touch **Enter**.

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

Parental Control

The Parental Control feature allows you to limit access to any SiriusXM channels, including those with mature content. When enabled, the Parental Control feature requires you to enter a Parental Code to tune to the locked channels.

1 Touch **Parental Control** on the SiriusXM SETUP screen.

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

■ **User**

Locks only the selected channels.

■ **Mature**

Locks channels classified as “mature” only.

■ **OFF**

Deactivates the parental mature and user locks.

3 Enter the parental code you originally input in as stated in **Parental code (P.32)** 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** on the SiriusXM SETUP screen.

- Parental Lock Code screen appears.

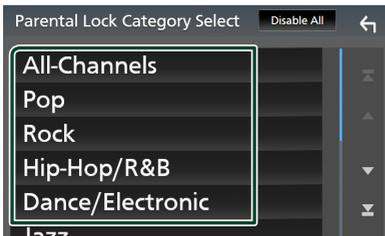
NOTE

- You need to set up a parental code beforehand as stated in **Parental code (P.32)**.

2 Enter the parental code you originally input as stated in **Parental code (P.32)** and touch **Enter**.

- Parental Lock Category Select screen appears.

3 Touch the desired category in the list.



- Displays all channels in the selected category.

NOTE

- Touch **All-Channels** to display all 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: Locks the channel.

OFF: Unlocks the channel.



- *1 Select a desired item (**Info**, **CH Name**, **Artist**, **Title**).

Reset

1 Touch **SiriusXM Reset** on the SiriusXM SETUP screen.

- Confirmation screen appears.

2 Touch **Yes**.

- All SiriusXM settings are reset to defaults.

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. 4.1

Profile

Cell-phone:

HFP (Hands Free Profile)

SPP (Serial Port Profile)

PBAP (Phonebook Access Profile)

Audio player:

A2DP (Advanced Audio Distribution Profile)

AVRCP (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 from the Bluetooth device

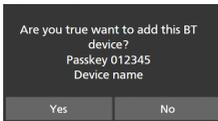
It is necessary to register the Bluetooth audio player or cell-phone to this unit before using the Bluetooth function.

You can register up to 7 Bluetooth devices.

NOTE

- Up to 7 Bluetooth devices can be registered. If an attempt is made to register the 8th Bluetooth device, the Bluetooth device connected on the earliest date will be deleted to register the 8th one.

- 1 Turn on the Bluetooth function on your smartphone/cell-phone.
- 2 Search the unit ("KW-V*****") from your smartphone/cell-phone.
- 3 Operate your smartphone/cell-phone according to the displayed messages.
 - Confirm the request on the smartphone/cell-phone.



- If a PIN code is required, enter the PIN code ("0000").

- 4 Touch **Yes**.

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

Bluetooth Setup

- 1 Press the **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .



- SETUP Menu screen appears.

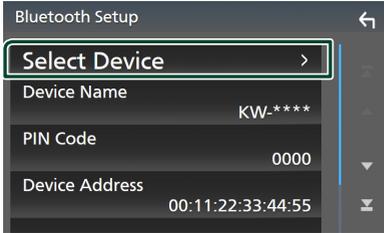
- 3 Touch **Bluetooth**.



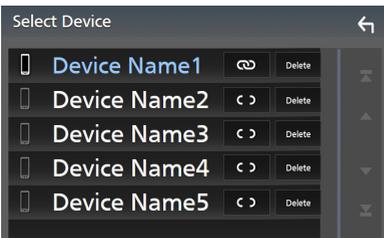
- Bluetooth SETUP screen appears. See the following section for each setting.
- Connect the Bluetooth device ([P.36](#))

Connect the Bluetooth device

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



- 2 Touch **[C>]** you want to connect.

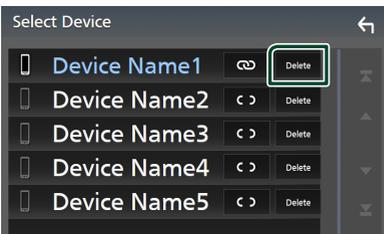


NOTE

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

To delete the registered Bluetooth device

- 1 Touch **Delete**.



➤ Confirmation message appears.

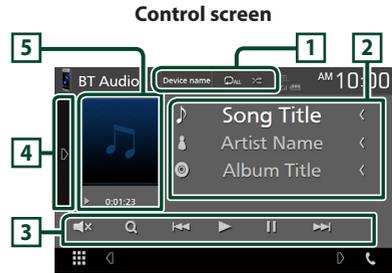
- 2 Touch **Yes**.

Playing Bluetooth Audio Device

Most function can be controlled from the source control screen.

To enter Bluetooth source, touch **BT Audio** icon in the source selection screen. (P.10)

Bluetooth basic operation



1 Device name/ [Repeat] / [Shuffle]

- Connected device name.
- [Repeat]: Repeats the current file/folder. Each time you touch the key, repeat mode switches in the following sequence; File repeat ([File Repeat]), Folder repeat ([Folder Repeat]), All songs repeat ([All Repeat]), Repeat off ([Repeat Off]).
- [Shuffle]: Randomly plays all files in current folder. Each time you touch the key, random mode switches in the following sequence; All random ([All Random]), Random off ([Random Off]).
- Operations and display indications may differ according to their availability on the connected device.

2 Information display *

Displays the name of the file information.

3 Operation keys *

- [Search]: Searches file. See **File search (P.37)**.
- [Previous/Next]: Searches the previous/next content. Touch and hold to fast forward or fast backward.
- [Play]: Plays.
- [Pause]: Pauses.
- [Mute]: Touch to mute or not to mute.

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.37)**.

5 Play mode indicator/ Playing time

▶, || : Current play mode indicator

The meanings of each icon are as follows;

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

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

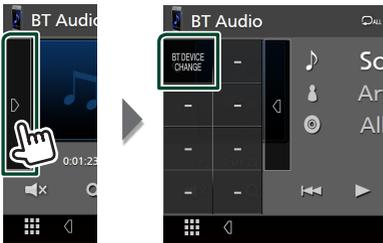
NOTE

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

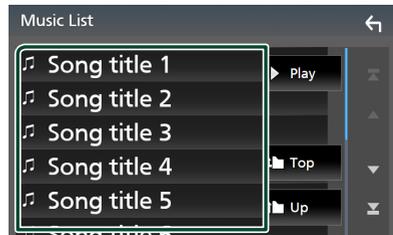


- 2 Touch the device name you want to connect.



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.12)**.

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 cannot be used. Only Apple CarPlay or Android Auto Hands-Free function can be used.

Make a call

1 Touch Phone/☎.



► 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 20 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.39)
- 📶: Bluetooth SETUP

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 ☎.

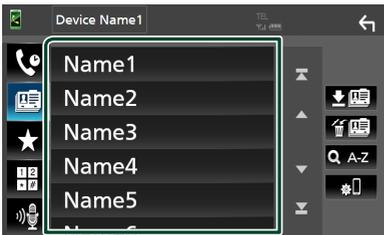
Call using the preset number

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

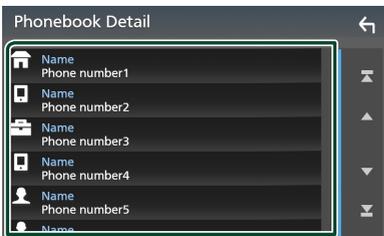


Call using the phonebook

- 1 Touch .
- 2 Select the person you want to call from the list.



- 3 Select the phone number from the list.



NOTE

- If no Phonebook has been downloaded, touching **Download Phonebook Now** will start downloading the Phonebook.

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.



➤ 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 display this screen, return the shift knob of car to the driver position.

To end call

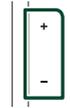
- 1 While talking, touch .

Operations during a call



● Adjust the receiver volume

Press the  or  button.



● 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.

Phone number preset

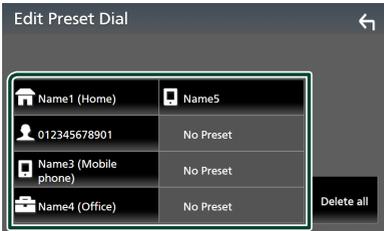
You can register frequently used phone numbers to this unit.

1 Touch .

2 Touch **Edit**.



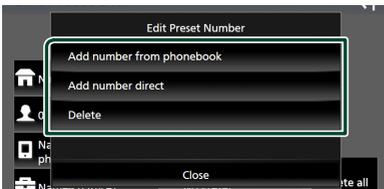
3 Select where to preset.



Delete all

To delete all preset numbers, touch **Delete all** and then touch **Yes** 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.39)**.

Add number direct

Enter the telephone number directly and touch **SET**. See **Call by entering a phone number (P.38)**.

Delete

To delete a preset number, touch **Delete** and then touch **Yes** 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.

NOTE

- If the Phonebook contains more than 1000 entries, Phonebook data cannot be transferred.

Phonebook deletion

1 Touch .

> Confirmation message appears.

2 Touch **Yes**.

Other External Components

View Camera

NOTE

- To connect a camera, see **P.57**.
- To use a rear view camera, a REVERSE lead connection is required. (**P.57**)
- The rear view screen is displayed when you shift the gear to the reverse (R) position.

Display the camera screen

1 Press the **FNC** button.
➤ FUNCTION screen appears.

2 Touch .



➤ View camera screen appears.

3 Adjust each item as follows.



1 Camera off

Touch to exit the camera screen.

Camera Setup

1 Press the **FNC** button.
➤ FUNCTION screen appears.

2 Touch 
➤ SETUP Menu screen appears.

3 Touch **Camera**.



➤ Camera screen appears.

4 Set each item as follows.

■ 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

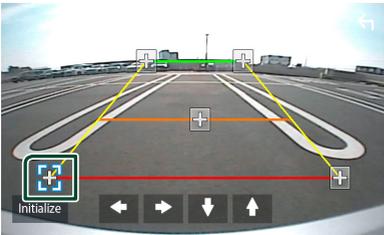
If you select **ON** for **Parking Guidelines**, adjust the parking guidelines. See **To adjust the parking guidelines (P.43)**.

To adjust the parking guidelines

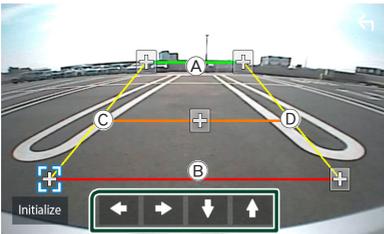
NOTE

- 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.42)
- 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, 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.

External audio/video players—AV-IN

- 1 Connect an external component to the AV-IN input terminal. (P.57)
- 2 Select **AV-IN** as the source. (P.10)
- 3 Turn on the connected component and start playing the source.

Setting Up

Monitor Screen Setup

You can adjust image quality in video screen.

- 1 Press the **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .



➤ Screen Control screen appears.

- 3 Adjust each item as follows.



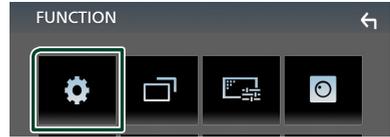
■ **Contrast / Brightness / Color / Tint**
Adjusts each item.

NOTE

- Adjusting items are different depending on the current source.

System Setup

- 1 Press the **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .



- See the following section for each setting.
 - Set up AV ([P.47](#))
 - Set up display ([P.46](#))
 - Set up the user interface ([P.45](#))
 - Set up camera ([P.42](#))
 - Set up special ([P.45](#))
 - Set up Bluetooth ([P.35](#))
 - Set up Device ([P.21](#))

User Interface Setup

You can setup user interface parameters.

- 1 Press the **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .
 - SETUP screen appears.
- 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 "OFF".

- **Language**

Selects a language.

- **Time Format**

Select the time display format.
"12-Hour" (Default)/ "24-Hour"

- **Clock Adjust**

Adjust the date and time manually. (P.7)

Special Setup

You can setup Special parameters.

- 1 Press the **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .
 - SETUP screen appears.
- 3 Touch **Special**.



➤ Special screen appears.

- 4 Set each item as follows.

- **DEMO**

Set the demonstration mode. Default is "ON".

- **Software Information**

Check the software version of this unit. (P.45)

- **Open Source Licenses**

Displays the open source licenses.

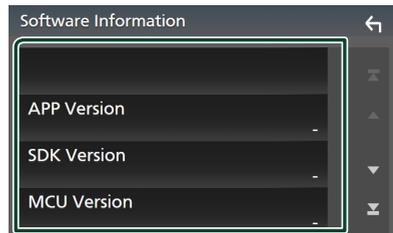
- **Initialize**

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

Software Information

Check the software version of this unit.

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



Display Setup

- 1 Press the **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .
 - SETUP screen appears.
- 3 Touch **Display**.



➤ Display screen appears.

- 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.

■ OSD Clock

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

"ON" (Default)/ "OFF"

■ Screen Adjust

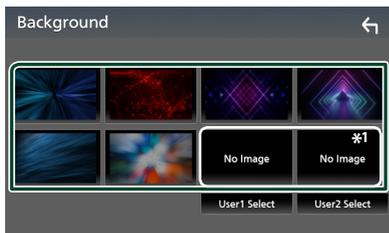
Displays the Screen Adjust screen. (P.44)

■ Background

Changing background image. (P.46)

Change background image

- 1 Touch **Background** in the Display screen.
- 2 Select an image.



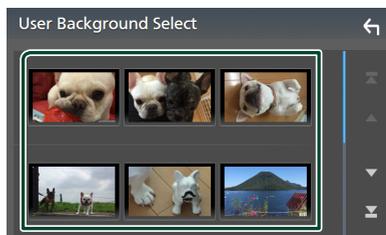
*1 Select an original image in advance.

To register original image

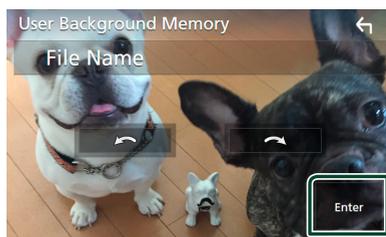
You can load an image from the connected USB device and set it for the background image.

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 Background screen.
- 2 Select the image to load.



- 3 Touch **Enter**.



➤ The selected image is loaded and the display returns to the Background 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 **FNC** button.
 - FUNCTION screen appears.
- 2 Touch .
 - SETUP screen appears.
- 3 Touch **AV**.



➤ AV screen appears.

- 4 Set each item as follows.

■ AV-OUT

Specify whether to output the current source signal from the VIDEO OUT terminal.

"ON" / "OFF" (Default)

NOTE

- Images can be output only from the AV IN, USB (video file) and DISC (DVD video) source.
- If display of the rear view camera image is selected when the AV-IN source is being played, no image is output from the VIDEO OUT terminal.

■ CarPlay Sidebar

Select the position of the control bar (left or right) shown on the touch panel.

"Left" (Default) / "Right"

NOTE

- The setting is available when an iPhone is disconnected.

■ AV Color Adjust

You can adjust image quality in video screen.

(P.44)

NOTE

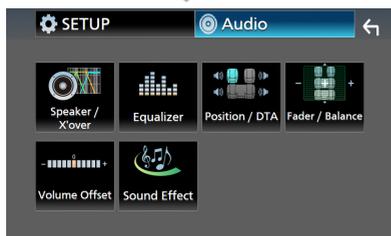
- Adjusting items are different depending on the current source.

Controlling Audio

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

- 1 Press the **FNC** button.
 - FUNCTION screen appears.

- 2 Touch .



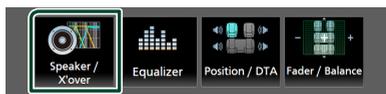
- See the following section for each setting.
 - Set up speaker/ X'over (**P.48**)
 - Controlling equalizer (**P.50**)
 - Set listening position/ DTA (**P.52**)
 - Controlling general audio (Fader / Balance) (**P.49**)
 - Set volume offset (**P.51**)
 - Set sound effect (**P.51**)

Speaker/ X'over setup

- 1 Press the **FNC** button.
 - FUNCTION screen appears.

- 2 Touch .
 - Audio screen appears.

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



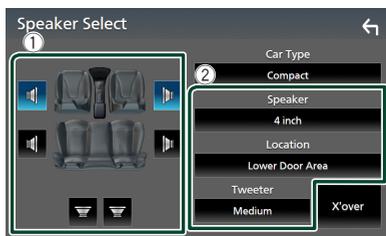
- 4 Select a car type.

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.49)**

■ **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*1**

Sets a crossover slope.

■ **Gain**

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

■ **TW (Tweeter) Gain*2**

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

■ **Phase Inversion*3**

Sets the phase of subwoofer output.

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

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

*2 Only when "Tweeter" is set to "Small", "Medium", "Large" in **Speaker Setup**.

*3 Only when "Subwoofer" is set to a mode other than "None" in **Speaker Setup**.

Controlling General Audio

1 Press the FNC button.

➤ FUNCTION screen appears.

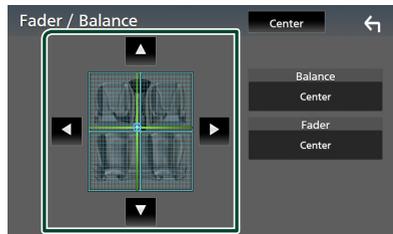
2 Touch .

➤ 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.

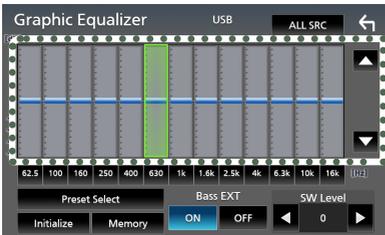
Equalizer Control

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

- 1 Press the **FNC** button.
➤ FUNCTION screen appears.
- 2 Touch .
➤ Audio screen appears.
- 3 Touch **Equalizer**.



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



■ ALL SRC

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

■ 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.

■ Initialize

The current EQ curve returns to flat.

■ Memory

Saves the adjusted equalizer curve from "User1" to "User3".

■ 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.

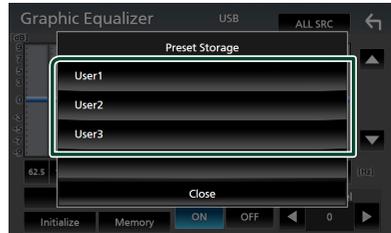
■ Recall the EQ curve

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



■ Save the EQ curve

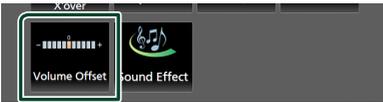
- 1 Adjust the EQ curve.
- 2 Touch **Memory**.
- 3 Select where to save.



Volume Offset

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

- 1 Press the **FNC** button.
➤ FUNCTION screen appears.
- 2 Touch .
➤ 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.

Sound Effect

You can set sound effects.

- 1 Press the **FNC** button.
➤ FUNCTION screen appears.
- 2 Touch .
➤ 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"

Listening Position/ DTA

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.

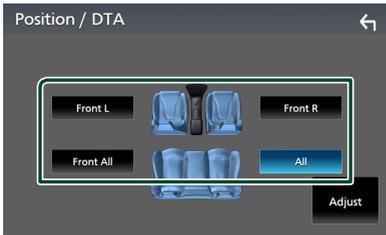
- 1 Press the **FNC** button.
➤ FUNCTION screen appears.

- 2 Touch .
➤ Audio screen appears.

- 3 Touch **Position/DTA**.



- 4 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.



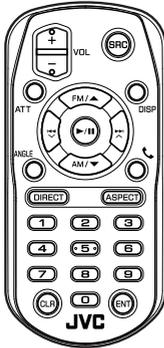
NOTE

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

Remote control

This unit can be operated using the remote control RM-RK258 (optional accessory).

Functions of the Remote control Buttons



Key Name	Function
SRC	Switches to the source to be played. In hands-free mode, hangs up the phone.
VOL + -	Adjusts the volume.
ATT	Mutes/restores the sound.
DISP	Switches the screen between the current source and the App screen from the connected iPhone/Android.
FM/ ▲ AM/ ▼	During tuner source, select FM/ AM band to be received. For the SiriusXM source, selects the band to be received.
⏪ ◂ ▶ ⏩	Selects the track or file to be played. For the tuner and SiriusXM sources, switches to broadcast stations received by the unit. For the DVD/VCD source, selects the chapter/scene/track to be played.
▶/ 	For the tuner, switches the seek mode. For the USB, BT audio, Plays or pauses.
ANGLE	Not used.
☎	When a call comes in, answers the call.
DIRECT	Switches to the direct search mode. For details on the direct search mode, see Direct search mode (P.53) .
ASPECT	Changes the aspect ratio.

Key Name	Function
Numeric Keypad	Specifies the number to search in direct search. For details on the direct search mode, see Direct search mode (P.53) .
CLR	Deletes a character while in direct search mode.
ENT	Performs the selected function.

Direct search mode

Using the remote control, you can jump directly to the tuner frequency.

NOTE

- This operation cannot be performed for the USB device.

1 Press the **SRC** button several times until the desired content appears.

The available contents are different depending on the source type.

■ Tuner

Frequency value

■ SiriusXM

Channel number

2 Press the **DIRECT** button.

3 Press number buttons to enter a frequency.

4 Press the **ENT** button to confirm the entry.

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

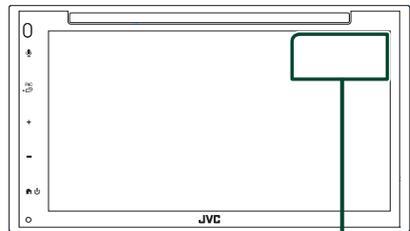
- Install this unit in the console of your vehicle. Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

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

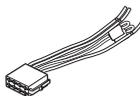
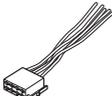
to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.

- 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.
- 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

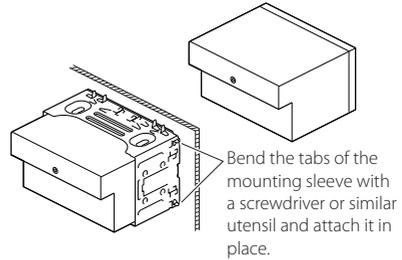
① 3 m  x1	②  x1
③ 2 m  x1	④  x1
⑤ M5 x 6 mm  x6	⑥ M5 x 8 mm  x6
⑦  x1	⑧  x1
⑨  x2	

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) Take Connector B (accessory ⑧) on the wiring harness and connect it to the speaker connector in your vehicle.
- 4) Take Connector A (accessory ⑦) on the wiring harness and connect it to the external power connector on your vehicle.
- 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) Press the reset button.

Installing the unit

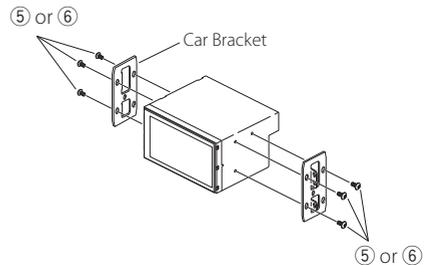
Non-Japanese cars



NOTE

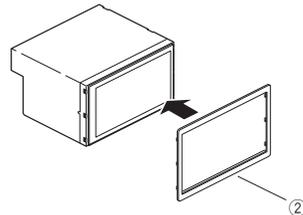
- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

Japanese cars



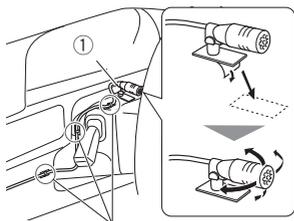
Trim plate

- 1) Attach accessory ② to the unit.



Microphone unit

- 1) Check the installation position of the microphone (accessory ①).
- 2) Clean the installation surface.
- 3) Remove the separator of the microphone (accessory ①), 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 ①) to the driver.



Fix a cable with a commercial item of tape.

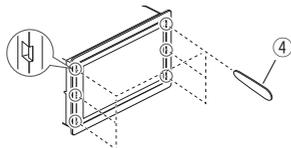
NOTE

- Swap the clips if necessary.

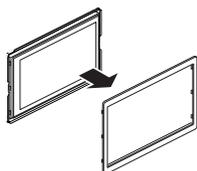


Removing the trim plate

- 1) Use the extraction key (accessory ④) to lever out the six tabs (three on the left part, three on the right part).

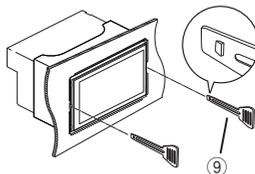


- 2) Pull the trim plate forward.

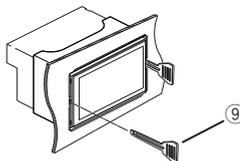


Removing the unit

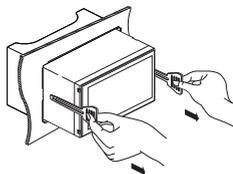
- 1) Remove the trim plate by referring to step 1 in "Removing the trim plate".
- 2) Insert the extraction key (accessory ⑨) deeply into the slot as shown. (The protrusion at the tip of the extraction key must face toward the unit.)



- 3) With the inserted extraction key secured, insert the other extraction key into the slot.



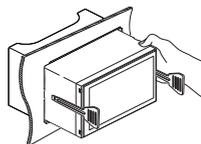
- 4) Pull out the unit halfway.



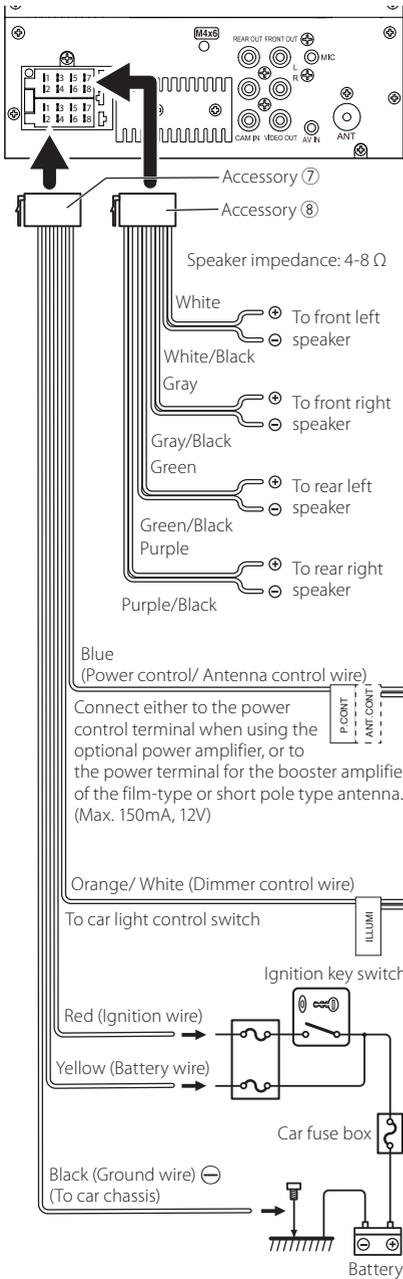
NOTE

- Be careful to avoid injury from the catch pins on the extraction key.

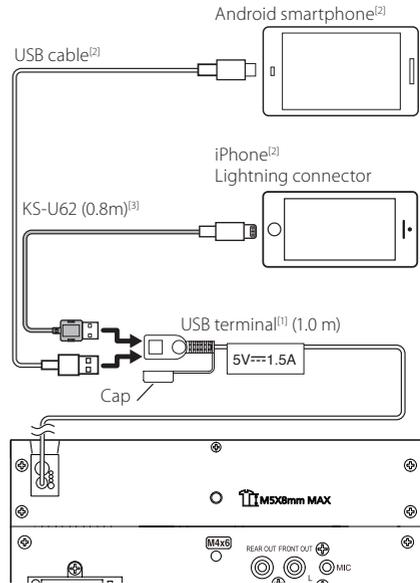
- 5) Pull the unit all the way out with your hands, being careful not to drop it.



Connection/Installation



Connecting an iPhone/Android



^[1] USB maximum power supply current :
DC 5V 1.5A

^[2] Sold separately

^[3] 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.48)**.

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 wires to terminals (P.57)**.

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 sound skips when an audio file is being played.

The recording condition is bad.

- Record the file again or use another USB memory.

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.5)**.

The disc is severely scratched.

- Try another disc instead.

The sound skips when a Music CD is being played.

The disc is scratched or dirty.

- Clean the disc. See **Precautions on handling discs (P.5)**.

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.

Disc Error

An unplayable disc is inserted.

Change the disc. See **Playable Media and Files (P.61)**.

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.63)** or try another disc.

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. Connect a USB device, and change the source to USB again.

Disconnected (Bluetooth audio player)

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

- Change the source to any source other than Bluetooth. Connect an Bluetooth audio player, and change the source to 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.61)** and try another USB device.

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.

- Touching [Return] on the popup screen will clear the message.

Channel *** Not Available

The currently selected channel is unavailable.

- Visit www.siriusxm.com for more information about the SiriusXM channel lineup.

Channel *** Not Subscribed /

Call SiriusXM to Subscribe

The currently selected channel is not subscribed to.

- In the U.S.A., visit 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 or call 1-877-438-9677.

Check Antenna

No antenna is connected to the SiriusXM tuner.

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

No Signal

No SiriusXM radio signal is received.

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

Channel *** Locked /

Please Enter the Lock Code _ _ _ _

The selected channel has been locked by the parental controls.

- Enter the unlock code when you are asked. See **Parental Control (P.32)**.

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

NOTE

- 8-cm (3 inch) discs cannot be used.

Disc types / Standard		Support	Remark
DVD	DVD-Video	○	
	DVD-Audio	×	
	DVD-VR	×	
	DVD-R	○	Only DVD video format.
	DVD-RW	○	
	DVD+R	○	Only DVD video format.
	DVD+RW	○	
	DVD-R DL (Dual layer)	○	Only DVD video format.
	DVD+R DL (Double layer)	○	Only DVD video format.
DVD-RAM	×		
CD	Music CD	○	
	DTS-CD	×	
	Video CD (VCD)	○	
	Super video CD	×	
	Photo CD	×	
	CD-EXTRA	○	Only music CD session can be played.
	HDCCD	△	Normal music CD sound quality
	CCCD	×	
	CD-ROM	×	
	CD-R	○	Only CD-DA format and Video CD format.
	CD-RW	○	
Others	Dualdisc	×	
	Super audio CD	△	Only CD layer can be played.

○ : Playback is possible.

△ : Playback is partly possible.

×

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 files (USB device only)

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 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 Standard L3 profile (Version 7,8,9)	8 – 320kbps	16 – 48 kHz	16 bit
Linear PCM (WAVE) (.wav)	RIFF waveform Audio Format	–	16 – 192 kHz	16/ 24 bit
FLAC (.flac)	flac	–	16 – 192 kHz	16/ 24 bit
Vorbis (.ogg)	vorbis	VBR	16 – 48 kHz	16 bit

NOTE

- 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.
- 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 (.mp4, .m4v, .avi, .flv, f4v)	Baseline Profile, Main Profile	1920 × 1080 (30 fps)	8 Mbps	MP3, AAC
MPEG-4 (.mp4, .avi)	Advanced Simple 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, FLAC

NOTE

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

■ Limitation of structure for the file and the folder

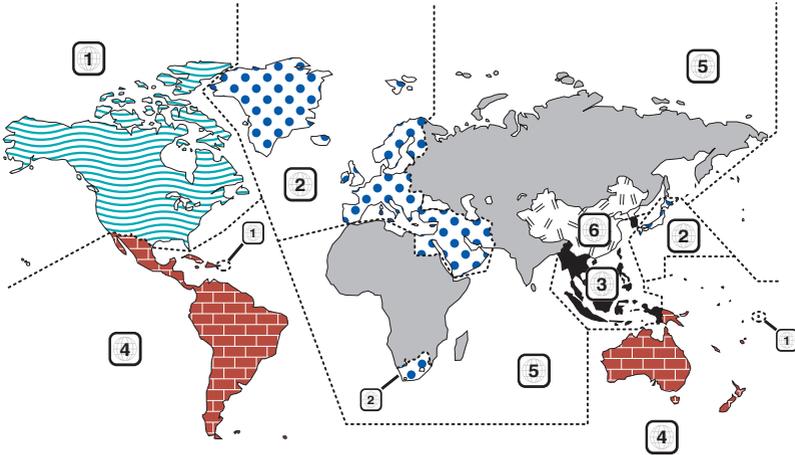
	USB device
Maximum number of folder layers	8
Maximum number of files (per folder)	999
Maximum number of folders (per folder)	9999
Maximum number of folders (per device)	–

NOTE

- 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
ia	Interlingua
ie	Interlingue

Code	Language
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
rn	Kirundi
ro	Romanian
ru	Russian
rw	Kinyarwanda

Code	Language
sa	Sanskrit
sd	Sindhi
sg	Sangho
sh	Serbo-Croatian
si	Singhalese
sk	Slovak
sl	Slovenian
sm	Samoaan
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
: 6.75 inches (diagonal) wide
: 151.8 mm (W) × 79.7 mm (H)
5-15/16 × 3-1/8 inch
- Display System
: Transparent TN LCD panel
- Drive System
: TFT active matrix system
- Number of Pixels
: 1,152,000 (800H × 480V × RGB)
- Effective Pixels
: 99.99%
- Pixel Arrangement
: RGB striped arrangement
- Back Lighting
: LED

■ DVD player section

- D/A Converter
: 24 bit
- Audio Decoder
: Linear PCM/ Dolby Audio
- Wow & Flutter
: Below Measurable Limit
- Frequency Response
 - 96 kHz : 20 – 22,000 Hz
 - 48 kHz : 20 – 22,000 Hz
 - 44.1 kHz : 20 – 22,000 Hz
- Total Harmonic Distortion
: 0.0001% (1 kHz)
- Signal to Noise ratio
: 90.5 dB
- Dynamic Range
: 89 dB
- Disc Format
: DVD-Video/ VIDEO-CD/ CD-DA/ DVD-R/ DVD-RW/
DVD+R/ DVD+RW
- Sampling frequency
: 44.1/ 48/ 96 kHz
- Quantifying Bit Number
: 16/ 20/ 24 bit

■ USB interface section

- USB Standard
: USB 2.0 High Speed
- File System
: FAT 16/ 32, exFAT
- Maximum Power Supply Current
: DC 5 V  1.5 A
- D/A Converter
: 16 bit
- Audio Decoder
: MP3/ WMA/ AAC/ WAV/ FLAC
- Video Decoder
: MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV
- Frequency Response
 - 192 kHz : 20 – 20,000 Hz
 - 96 kHz : 20 – 20,000 Hz
 - 48 kHz : 20 – 20,000 Hz
 - 44.1 kHz : 20 – 20,000 Hz
- Total Harmonic Distortion
: 0.2% (1 kHz)
- Signal to Noise Ratio
: 75 dB
- Dynamic Range
: 75 dB

■ Bluetooth section

- Technology
: Bluetooth Ver. 4.1
- Frequency
: 2.402 – 2.480 GHz
- RF Output Power (E.I.R.P.)
: +8 dBm (Avg.), Power Class 1
- Maximum Communication range
: Line of sight approx. 10 m (32.8 ft)
- Audio Codec
: SBC/ AAC
- Profile (Multi Profile support)
 - HFP (Hands Free Profile)
 - SPP (Serial Port Profile)
 - A2DP (Advanced Audio Distribution Profile)
 - AVRCP (Audio/Video Remote Control Profile)
 - PBAP (Phonebook Access Profile)

Appendix

■ 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.

Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

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.

Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

Position

Front / Rear /Subwoofer Delay

: 0 – 20.01 ft (0.03 or 0.04 ft Step)

Gain

: -8 – 0 dB

Subwoofer level

: -40 – +6 dB

■ FM tuner section

Frequency Range (step)

: 87.9 MHz – 107.9 MHz (200 kHz)

Usable Sensitivity (S/N: 30 dB)

: 16.2 dBf (1.8 μ V/75 Ω)

Quieting Sensitivity (DIN S/N: 46 dB)

: 13 dBf (4.47 μ V/75 Ω)

Frequency Response (\pm 3.0 dB)

: 30 Hz – 14 kHz

S/N (dB)

: 50 dB (MONO)

Selectivity (\pm 400 kHz)

: Over 80 dB

Stereo Separation

: 35 dB (1 kHz)

■ AM tuner section

Frequency Range (step)

: 530 – 1700 kHz (10 kHz)

Usable Sensitivity

: 99 μ V (40 dB μ)

■ Video section

Color System of External Video Input

: NTSC/ PAL

External Video Input Level (Mini jack)

: 1 V_{p-p}/ 75 Ω

External Audio Max Input Level (RCA jack)

: 1.5 V/ 25 k Ω

Video Output Level (RCA jacks)

: 1 V_{p-p}/ 75 Ω

■ Audio section

Maximum Power Output (Front & Rear)

: 45 W \times 4

Full Bandwidth Power (at less than 1% THD)

: 21 W \times 4

Output Frequency Band

: 20 – 20,000 Hz

Preout Level (V)

: 2 V/ 10 k Ω

Preout Impedance

: 1.4 k Ω

Speaker Impedance

: 4 – 8 Ω

■ General

Operating Voltage

: 12V DC Car Battery

Installation Dimensions (W \times H \times D)

: 182 \times 112 \times 153 mm

7-3/16 \times 4-7/16 \times 6 inch

Main Unit Installation size (W \times H \times D)

: 178 \times 100 \times 153 mm (w/o sleeve)

7 \times 3-15/16 \times 6 inch

Weight

: 2.0 kg (4.4 lbs)

(Including Sleeve and Trim plate)

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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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.

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2967-3, ISHIKAWA-MACHI,
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21 CFR SUBCHAPTER J IN EFFECT AT DATE OF
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Location: Top plate

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

■ ISED CAUTION

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

▲ CAUTION

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED 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.

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Trade Name: JVC
Products: MONITOR WITH DVD RECEIVER
Model Name: KW-V660BT / KW-V66BT
Responsible Party: JVCKENWOOD USA CORPORATION
2201 East Dominguez Street,
Long Beach, CA 90810, U.S.A.
PHONE: 310 639-9000

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