MONITOR WITH RECEIVER

DMX8019DABS

INSTRUCTION MANUAL

JVCKENWOOD Corporation

Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from http://www.kenwood.com/cs/ce/.



















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Before Use

Precautions

A 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 metallic tools) inside the unit.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- If you experience problems during installation, consult your KENWOOD dealer.

Precautions on using this unit

- When you purchase optional accessories, check with your KENWOOD dealer to make sure that they work with your model and in your area.
- You can select a language to display menus, audio file tags, etc. See *User Interface Setup* (P.59).
- The Radio Data System or Radio Broadcast Data System feature won't work in areas 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 a 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 it 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 damage 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 the screened print.

Acquiring GPS signal

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

■ About GLONASS

thereafter

This unit uses Global Navigation Satellite System (GLONASS) in addition to GPS.

Combining GPS and GLONASS can refine positioning accuracy than using GPS only.

■ Caution for Smartphone Users

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

For best results while pairing with your Kenwood receiver, please be sure to close any unused applications.

4

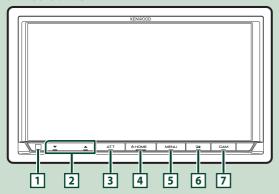
How to read this manual

- The screens and panels shown in this manual are examples used to provide a clear explanation of operations. For this reason, they may be different from the actual screens or panels, or some display patterns may be different from the actual ones.
- Display language: English is used for the purpose of explanation. You can select a display language from the **SETUP** menu. See User Interface Setup (P.59).

Basic Operations

Functions of the Buttons on the Front Panel

DMX8019DABS



NOTE

• The panels shown in this manual are examples used to provide a clear explanation of operations. For this reason, they may be different from the actual panels.

Number	Name	Motion
1	Remote Sensor	Receives the remote control signal.
2	▼, ▲ (Volume)	Adjusts the volume. The volume will go up to 15 when you keep pressing ▲. (P.10)
3	ATT	Switches attenuation of the volume on/off.
4	HOME	Displays the HOME screen (P.12). Pressing for 1 second turns the power off. When the power is off, turns the power on.
5	MENU	Displays the popup menu screen. Pressing and holding turns the screen off.
6		Displays the APP (Apple CarPlay/Android Auto/Wireless Mirroring) screen. Pressing and holding displays the Voice Recognition screen (P.50). When neither Apple CarPlay, Android Auto, nor a Bluetooth Hands-Free phone is connected, pressing and holding displays Bluetooth pairing waiting dialog. (P.43)
7	CAM	Switches view camera display on/off. (P.54) The camera whose view is displayed first changes according to the "Camera Setup" setting and the shift lever position in the shift gate.

Turning on the Unit

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

1 Press the **HOME** button.



- ➤ The unit is turned on.
- To turn off the unit:
- 1 Press the **HOME** button for 1 second.

NOTE

• If it is your first time to turn the unit on after installation, it will be necessary to perform Initial setup (P.8).

Initial Settings

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 "British English(en)".

- 1 Touch Language.
- 2 Touch Language Select.
- 3 Select the desired language.
- (4) Touch (5).

For details, see *User Interface Setup* (P.59).

■ Clock

Sets the synchronization of the clock and adjusts it.

For detailed operation, see **Calendar/clock** settings (P.10).

■ Display

Set the key illumination color.

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

- 1 Touch **Display**.
- (2) Touch Key Colour.
- (3) Select the desired color.
- 4 Touch 6
- **5** Touch **Viewing Angle**.
- 6 Select a viewing angle.
- (7) Touch \leftarrow .

For details, see Viewing Angle (P.11).

For details, see **Display Setup (P.61)**.

■ Camera

Set the parameters for the camera.

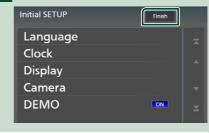
- 1) Touch Camera.
- ② Set each item and touch 6.

For details, see Camera Setup (P.54).

■ DEMO

Set the demonstration mode. Default is "ON".

2 Touch Finish.



NOTE

• These settings can be made from the SETUP menu. See **Setup** (**P.59**).

Security Code Setup

You can set up a security code to protect your receiver system against theft.

When the Security Code function is activated, the code cannot be changed and the function cannot be released. Note the Security Code can be set as the 4 to 8 digit number of your choice.

Preparation

- Set **DEMO** to **OFF** in the Special screen (P.61).
- 1 Press the MENU button.
 - Popup menu appears.
- 2 Touch SETUP.



- > SETUP Menu screen appears.
- 3 Touch Security.



- > Security screen appears.
- 4 Touch Security Code Set on the Security screen.
 - Security Code Set screen appears.
- 5 Enter a security code with 4 to 8 digit number and touch Enter.



6 Enter the same code again and touch Enter.

Now, your security code is registered.

NOTE

- · Touch BS to delete the last entry.
- · If you enter a different security code, the screen returns to step 5 (for the first code entry).
- · If you have disconnected the Receiver from battery, enter the correct security code as that you have entered in step 5 and touch **Enter**. You can use your receiver.

To change the security code:

- 1 Touch Security Code Change on the Security screen.
 - ➤ Security Code Set screen appears.
- 2 Enter the current registered security code and touch Enter.
- 3 Enter a new security code with 4 to 8 digit number and touch Enter.
- 4 Enter the same code again and touch Enter.

The new security code is registered.

To clear the security code:

- 1 Touch Security Code Cancellation on the Security screen.
 - ➤ Security Code Set screen appears.
- 2 Enter the current registered security code and touch Enter.

The security code is cleared.

Calendar/clock settings

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch SETUP.

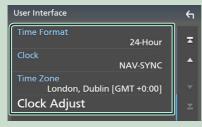


- > SETUP Menu screen appears.
- 3 Touch User Interface.



- ➤ User Interface screen appears.
- 4 Set each item as follows.

Scroll the page to show hidden items.



■ Time Format

Select the time display format.

12-Hour / 24-Hour (Default)

■ Clock

GPS-SYNC (Default): Synchronizes the clock time with the GPS.

Manual: Set the clock manually.

■ Time Zone

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

■ Clock Adjust

If you select **Manual** for Clock, adjust the date and time manually. **(P.60)**

NOTE

• Please set the date and time. If they are not set, some functions may not work.

Adjusting the volume

You can adjust the volume (0 to 40).

Press ▲ to increase, and press ▼ to decrease. Holding ▲ increases the volume continuously to level 15.



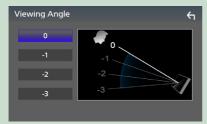
Viewing Angle

You can adjust the viewing angle when the image on the screen is difficult to see evenly. The smaller the (negative) value, the more whitish the image on the screen looks.

- 1 Press the **MENU** button.
 - ➤ Popup menu appears.
- 2 Touch SETUP.
- 3 Touch Display.



- ➤ Display screen appears.
- 4 Touch Viewing Angle.
- 5 Select an angle you want to set up. Default is "0". (P.61)



Touch screen operations

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

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 a list screen by flicking up/down on the screen.



Swipe

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



HOME screen descriptions

Most functions can be performed from the HOME screen.



- 1 · Widget (P.17)
 - You can change the widget by flicking left or right on the widget area.
 - Touch the widget to display the detailed screen.
- Displays the source selection screen. (P.13)
- Short-cut playback source icons (P.14)

Display the HOME screen

1 Press the HOME button.



➤ HOME screen appears.

Popup menu

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch to display the popup menu.

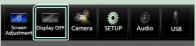


The contents of the menu are as follows.



Turn off the screen

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



NOTE

- Touch the display to turn on the screen.
- To display the clock while the screen is off, it is necessary to set "OSD Clock" to "ON". (P.61)

Source selection screen description

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



- Changes playback sources.
 For playback sources, see **P.13**.
- Page indication
- Changes pages. (Touch () () () You can also change pages by flicking left or right on the screen.
- Returns to the previous screen.
- Displays the SETUP Menu screen. (P.59)

Select the playback source

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

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



 Switches to the Apple CarPlay screen from the connected iPhone. (P.21)



• Switches to the Android Auto screen from the connected Android device. (P.24)



Displays the Hands Free screen. (P.48)
 When neither Apple CarPlay, Android
 Auto, nor a Bluetooth Hands-Free phone
 is connected, displays Bluetooth pairing
 waiting dialog.*1 (P.43)



 Switches to the Radio broadcast. (P.34)

DAB	Switches to the DAB broadcast. (P.38)
Bluetooth	• Plays a Bluetooth audio player. (P.42)
iPod	• Plays an iPod/iPhone. (P.31)
USB	• Plays files on a USB device. (P.28)
Spotify	• Switches to Spotify. (P.26)
номі	Plays a device connected to the HDMI input terminal. (P.57)
AV-IN	Switches to an external component connected to the AV-IN input terminal.*2 (P.57)
	Switches to the Wireless Mirroring screen from the connected Android device. (P.21)
(3) Audio	• Displays the Audio screen. (P.65)
STANDBY	• Puts the unit in standby. (P.14)

- *1 When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto. If Apple CarPlay or Android Auto are connected during talking by the Bluetooth device, the current call will be continued.
- *2 CA-C3AV (optional accessory) is connected to the AV-IN input terminal for visual. (P.83)

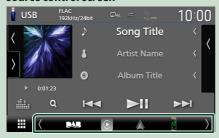
To select the playback source on the HOME screen



The 4 items displayed on the source selection screen with large icons are shown on the HOME screen.

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

To select the playback source on the source control screen



Display source selection icons by touching

/ D or flicking left or right on the source control screen, then select a playback source.

Put the unit in standby

- Press the HOME button.HOME screen appears.
- 2 Touch .
- 3 Touch STANDBY.



Customize Short-cut source icons on HOME screen

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

- Press the **HOME** button.

 > HOME screen appears.
- 2 Touch
- 3 Touch and hold the icon which you want to move in the customizing mode.
- 4 Drag the icon to the desired position.



Changes the page





Source control screen descriptions

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

Indicators



Short-cut source icons



Displays the source selection screen. (P.13)

2 Secondary screen

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

3 Content list

Displays the track/file/station/channel list.



Connected Bluetooth device information

5 Artwork & information

You can select whether to display an artwork and song information or only song information in more detail.

Touching the artwork area switches to the VU meter. (The USB, iPod, Bluetooth audio sources only)





Change the text size of song information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (P.60).





6 Function panel

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

7 Operation keys

You can operate the current source with these operation keys. The available functions are different depending on the source type.

List screen

There are some common function keys in the list screens of most sources. See (*P.30*, *33*, *47*).

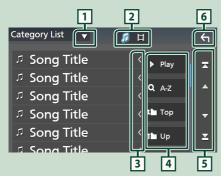
Display the list screen

For USB/iPod:

- 1 Touch Q or the item listed on the information area in the source control screen.
 - ➤ The list screen appears.

For Bluetooth audio:

- 1 Touch Q.
 - ➤ The list screen appears.





Displays the list type selection window.



Displays a music/movie file list.

Text scroll

Scrolls the displayed text.

Play etc.

Keys with various functions are displayed here.

- Play: Plays all tracks in the folder containing the current track.
- • A-Z : Jumps to the letter you entered (alphabetical search).
- Top Top : Moves to the upper hierarchy level.

5 ▲ / ▼ / ▼ / Page scroll

You can change pages to display more items by pressing \(\textstyle \) \(\textstyle \).

- I Displays the top or bottom page.
- 6 Return

Returns to the previous screen.

NOTE

• Depending on the current source or mode, some function key may not appear.

Widget

Widget

- 1 Press the **HOME** button.
- 2 You can change the widget by flicking left or right on the widget area.



Widget list

- · Multi Widget *1
- Clock Widget
- Tire Pressure Widget *2
- Climate Widget *2
- · Photo Frame Widget
- *1 Up to 3 pages can be set to the multi widget screen.
- *2 This can be selected when a commercial adaptor is connected.

Multi Widget

You can place a widget on each of the following areas. Up to 4 widgets can be placed per a multi widget screen.

- 1 Press the **HOME** button.
- 2 Flick the widget area to the left/right to display the multi widget.



- 1 Widget (L)
- 2 Widget (M)
- 3 Widget (S1)
- 4 Widget (S2)

Replace the widget

- To move the widget
- 1 Touch and hold the widget.
 - ➤ Widget customize mode is activated.
- 2 Drag the widget to the desired position.
- To delete the widget
- 1 Touch and hold the widget.
 - ➤ Widget customize mode is activated.
- **2** Touch \times on the right top corner of the widget.
 - ➤ The selected widget is deleted.

● To replace the widget

1 Touch ▼ on the multi widget screen.



➤ Widget list popup appears.

1 Widget icon

The widgets which can be placed to the multi widget screen are listed.

- 2 Flick the widget list popup to the left/right to select the widget to replace.
- Touch and hold the new widget.Widget customize mode is activated.
- 4 Drag the widget from the widget list popup to the desired widget area.

You can set up following items.

- · Clock Widget
- Current source information *1
- Visualizer Widget
- Mirrorina Widaet *2 *3
- · Photo Frame Widget
- · Climate Widget *4
- Tire Pressure Widget *4
- *1 You cannot display the screen of Wireless Mirroring on this widget. To display the screen of the source, select the Mirroring Widget.
- *2 This can be selected when using Wireless Mirroring.
- *3 You cannot play the audio/video file on the USB when using Wireless Mirroring.
- *4 This can be selected when a commercial adaptor is connected.

NOTE

- ▼ and the widget list popup disappear when no operation is done for 5 seconds.
- When the screen is switched from another widget to multi widget screen, ▼ appears again.

Add a new multi widget

You can add pages to the multi widget screen.

- 1 Touch ▼ on the multi widget screen.
 - ➤ Widget list popup appears.



The state of the s

Displays confirmation message to delete the current page from the multi widget screen. For details, see *To delete the multi widget* (P.18).

+

Adds a page to the multi widget screen.

- **2** Touch **a** on the widget list popup.
 - ➤ A new page is added.

NOTE

- You can add up to pages to the 2 multi widget screen. If you have already added 2 pages, you cannot select
- The widget tray is displayed on the new page until you place a widget to.

To delete the multi widget

- 1 Touch in on the widget list popup.
 - ➤ Confirmation message appears.
- 2 Touch YES.
 - > Current page is deleted.

NOTE

 You cannot delete the first page of the multi widget screen.

Photo Frame Widget

You can display a slideshow of the image files stored in the USB memory on the Home screen.

Preparation

· Select "ON" for Photo Frame Widget. See Widget Setup (P.19).

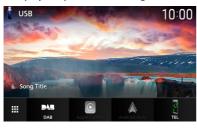
Acceptable Picture files

	Max. Picture size
JPEG (.jpg, .jpeg) *1	5,000 × 5,000
PNG (.png)	1,000 × 1,000
BMP (.bmp)	1,000 × 1,000

- This unit can only play back files which are less than 50 MB.
- The maximum number of files per device is
- · Picture files may not be played depending on their condition.
- *1 A progressive format is not supported.

Photo Frame

- 1 Press the **HOME** button.
- 2 Flick the widget area to the left/right to display the photo frame widget.



• Scroll the screen to display the hidden part.

Widget Setup

Set up the widgets on the Home screen.

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



- ➤ User Interface screen appears.
- 4 Touch Widget SETUP in the User Interface screen.
- 5 Set each item as follows.
 - **■** Photo Frame Widget

Determine whether to use the photo frame widget.

"ON" (Default)/"OFF"

■ Photo Frame SETUP

Make settings related to display of the photo frame widget.

6 Touch G

Widget

To Photo Frame Setup

Make settings related to display of the photo frame widget.

- 1 Touch Photo Frame SETUP on the Widget SETUP screen.
- 2 Set each item as follows.

■ Sort Order

Specify a file sorting criterion.

"By Name(Ascending)"/

"By Name(Descending)"/

"By Date(Newest First)" (Default)/

"By Date(Oldest First)"

■ Slide Show Interval

Specify the slideshow interval.

"5" to "30" seconds.

Default is "5" seconds.

■ Photo Frame is · · · · ·

Display help topics about the photo frame.

3 Touch 🔄

APPS

Wireless Mirroring Operation

You can display the same screen of the Android device on the monitor of the unit using the Wireless Mirroring function of the Android device.

Preparation

- You can use the Wireless Mirroring function with Android devices compatible with this function.
- This function may be called Wireless Display, Screen Mirroring, AllShare Cast, etc., depending on the manufacturer.
- The settings on the Android device differ depending on the device type. For details, refer to the instruction manual supplied with your Android device.
- If your Android device is locked, Mirroring screen may not appear.
- If the Android device is not ready for UIBC, you cannot perform touch operation.
- 1 Press the **HOME** button.
- **2** Touch **.**
- 3 Touch Wireless Mirroring . (P.13)
 - ➤ The App screen is displayed.
- 4 Operate your Android device to activate the Wireless Mirroring function, then connect to this unit.
- 5 Select ("DMX8190DABS") as the network to use.
 - When the connection is established, then the same screen displayed on the Android device is displayed.

NOTE

- Apps is discontinued when the power is turned ON/OFF or you leave the vehicle. To restart Apps, operate the Android device.
- When the Apps source is displayed, you cannot register or reconnect a Bluetooth device. Switch the Apps source to another source, and then operate the Bluetooth device.

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:**// **apple.com/ios/carplay/**.

Compatible iPhone devices

You can use Apple CarPlay with the following iPhone models.

- iPhone X
- iPhone 6s
- iPhone 8 Plus
- · iPhone 6 Plus
- iPhone 8
- iPhone 6
- iPhone 7 PlusiPhone 7
- iPhone 5s
- iPhone SE
- iPhone 5ciPhone 5
- iPhone 6s Plus

Connecting an iPhone

Wired connection

1 Connect your iPhone using KCA-iP103 via the USB (Black) terminal. (P.84)

When an iPhone compatible with Apple CarPlay is connected to the USB (Black) terminal, the Bluetooth Hands-Free phone currently connected is disconnected. If the Bluetooth Hands-Free phone is being used, disconnection will occur after ending the call.

2 Unlock your iPhone.

Wireless connection

You can select the iPhone registered as the Bluetooth device from **Apple CarPlay Device List** and use it as the Apple CarPlay device.

Preparation

- To register an iPhone by the connection via the USB (Black) terminal
 - Connect an iPhone via the USB (Black) terminal and operate the iPhone according to the confirmation messages displayed on the iPhone. The iPhone is registered in **Apple CarPlay Device List**. Removing the iPhone from the USB (Black) terminal and selecting the registered iPhone from **Apple CarPlay Device List**, the iPhone will be connected wirelessly.
- To register an iPhone by the connection via Bluetooth
 - Touching •0 on the Apple CarPlay Device List screen (P.22), displays Bluetooth pairing waiting dialog. Referring to Register the Bluetooth device (P.43) and registering the iPhone, the iPhone will be connected wirelessly.
- 1 Press the HOME button.
- **2** Touch **.**
- 3 Touch Apple CarPlay. (P.13)

NOTE

- Turn on the Bluetooth function and Wi-Fi function of an iPhone.
- If two or more iPhones have been registered, select the iPhone to be used as the Apple CarPlay source. (P.22)
- You can also select the iPhone registered in Apple CarPlay Device List (P.22) even when the Apple CarPlay icon is not activated on the source selection screen.
- It is necessary to connect the GPS antenna and the speed pulse input in order to use a wireless Apple CarPlay.

To switch the Current Screen to the Apple CarPlay Screen When Connecting Your iPhone

- Touch Apple CarPlay icon on the source selection screen. (P.13)
- Touch the following connection message if the message appears.



NOTE

- · The connection message appears when;
 - The iPhone you used previously is connected again.
 - The screen other than HOME and the source selection screen is displayed.
- The connection message is displayed for about 5 seconds.

■ Select an Apple CarPlay device

If two or more iPhones compatible with Apple CarPlay have been registered, select the iPhone to be used as the Apple CarPlay source.

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



- 4 Touch Apple CarPlay Device List.
- 5 Select a device.

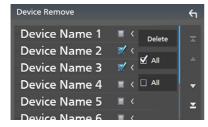
The Apple CarPlay device connected via the USB and the registered Apple CarPlay devices ready for wireless connection are displayed.



- Displays a Bluetooth pairing waiting dialog. For details, see **Register the Bluetooth device (P.43)**.
- Displays confirmation message to disconnect the device.
- To : Displays Device Remove screen.

To delete the registered Apple CarPlay device

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



■ ☑ ALL

Selects all Apple CarPlay devices.

■ □ ALL

Clears all check marks.

- 3 Touch Delete.
 - ➤ Confirmation message appears.
- 4 Touch Yes.
 - ➤ All the selected device(s) is deleted.

NOTE

• This operation also deletes the same device(s) from the Bluetooth device list screen. (P.45)

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



- 10
- Displays the home screen of Apple CarPlay.
- Touch and hold to activate 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 HOME button.

Use Siri

You can activate Siri.

1 Press the == button for 1 second.



2 Talk to Siri.

To deactivate

1 Press the □■ button.

Switch to the Apple CarPlay screen while listening to another source

1 Press the □■ button.



NOTE

 When listening to another source with the Apple CarPlay screen displayed, playing music in the Apple CarPlay mode will switch the current source to the Apple CarPlay source.

Android Auto™ Operation

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

Compatible Android devices

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

NOTE

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

About the placement of smartphone

Install the smartphone connected as Android Auto device in the place where it can receive the GPS signals.

When using Google Assistant, install the smartphone in the place where the smartphone easily catch a voice by the microphone.

NOTE

- Do not put the smartphone in a spot exposed to direct sunlight or near an air blowing out port of an air conditioner. The placement of the smartphone in such places can lead to malfunction or damage of your smartphone.
- · Do not leave the smartphone in the vehicle.

Connect Android device

1 Connect an Android device via the USB terminal. (P.85)

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

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

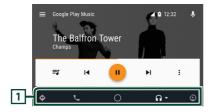
- 2 Unlock your Android device.
- 3 Press the **HOME** button.
- **4** Touch **Ⅲ**.
- 5 Touch Android Auto . (P.13)

Operation buttons and available Apps on the Android Auto screen

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

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

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



1 Application/information buttons

Starts the application or displays information.

To exit the Android Auto screen

1 Press the **HOME** button.

Using voice control

1 Press the \square button for 1 second.



To cancel

- 1 Press the ⊒≡ button.
- Switch to the Android Auto screen while listening to another source
- 1 Press the □■ button.



NOTE

 When listening to another source with the Android Auto screen displayed, playing music in the Android Auto mode will switch the current source to the Android Auto source.

Spotify Operation

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

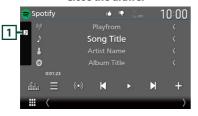
To select the Spotify source, touch **Spotify** icon on the source selection screen. **(P.13)**

Preparation

- Install the latest version of the Spotify application "Spotify" on your iPhone or Android.
 iPhone: Search for "Spotify" in the Apple App Store to find and install the most current version.
 Android: Search for "Spotify" in Google play to find and install the most current version.
- iPhones are connected via either USB or Bluetooth
- · Android devices are connected via Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting for the connection beforehand. See Register the Bluetooth device (P.43) and Connect the Bluetooth device (P.44).
- When an Apple CarPlay is connected, you can use Spotify.



Close the drawer



1 Artwork

- · Displays/hides artwork area.
- Picture data is displayed if available from the current content.

2 Playing time

· For confirmation of play time.

3 Operation keys

- **I**: Displays the Station list screen.
- (iii): New radio station that relates to the artist of the currently being played song is selected and playback starts.
- L. , D. : Skips the current song. (Note that this function is disabled when the Spotify skip limitation is exceeded.)
- • Plays or pauses the content of the current station.
- Saves the currently being played song to Mv Music.
- iii : Displays the Graphic Equalizer screen. (P.68)

4 Content information

- Displays the information on the current content being played.
- Change the text size of the information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (P.60).

5 1 1 / 1 2 / 2

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

Selecting a track

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



■ To select the category and station

Touch the category and station name in the list.

■ Top

Returns to the top of the list.

■ ¡ Up

Returns to the previous list.

About Spotify®

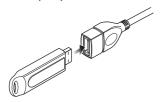
Note

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

USB

Connecting a USB device

Connect the USB device with the USB cable. (P.84)



- 2 Press the HOME button.
- **3** Touch **.**
- 4 Touch USB. (P.13)
- Disconnect the USB device
- 1 Press the **HOME** button.
- 2 Touch a source other than USB.
- 3 Detach the USB device.

Usable USB device

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

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

About the file system

The file system should be the one of the following.

• FAT16 • FAT32 • exFAT • NTFS

NOTE

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

USB Basic Operation

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

NOTE

 Set the remote controller mode switch to AUD mode before starting operation, see Switch the operation mode (P.74).

Control screen



Open the drawer



Close the drawer



- 1 CODEC / ♀ / ※
- When a high-resolution source is played, its format information is displayed.
- ② : Repeats the current track/folder. Each time you touch the key, repeat modes are switched in the following sequence:
 File repeat (②), Folder repeat (), Repeat all (②)

2 Track information

- Displays the information on the current file.
 Only a file name and a folder name are displayed if there is no tag information.
- Change the text size of the information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (P.60).

3 Play mode indicator/Playing time

- • , • , etc.: Current play mode indicator Meanings of individual icons are as follows:
- ► (play), ►► (fast forward), ◄◄ (fast backward), **II** (pause).
- For confirmation of current playing position. You can drag the circle left or right to change the playing position. (Video file only)

0.0123

4 Operation keys

- Q : Searches track/file. For details on search operation, see **Search Operation** (**P.30**).
- I → I : Searches the previous/next track/ file.

Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)

- ▶II : Plays or pauses.
- iii : Displays the Graphic Equalizer screen. (P.68)

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/file name on the list, playback will start.

6 Artwork/VU meter

- · Displays/hides artwork area.
- The jacket of the currently playing file is displayed.
- Touch to switch between the artwork and VU meter.

7 Function panel

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

: Searches for the previous/next folder.

· USB DEVICE CHANGE:

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

8 Indicator Items

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

Video screen



9 File search area (Video file only)

Touch to search for the next/previous file.

10 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 a list type.



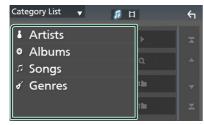
NOTE

• For operations on the list screen, see *List screen* (P.16).

Category search

You can search for a file by selecting a category.

- 1 Touch Category List.
- 2 Select whether you search audio files or video files .
- **3** Touch the desired category.

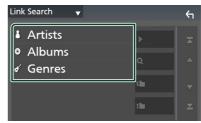


- ➤ The list corresponding to your selection appears.
- 4 Touch to select the desired item in the list. Repeat this step until you find the desired file.

Link search

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

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

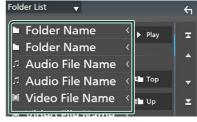


- ➤ The list corresponding to your selection appears.
- 3 Touch the desired item in the content list.

■ Folder search

You can search for 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 your desired item in the list. Repeat this step until you find the desired file.

iPod/iPhone

Preparation

■ Connectable iPod/iPhone

The following models can be connected to this unit.

Made for

- iPhone X
- iPhone 6 Plus
- iPhone 8 Plus
- iPhone 6
- iPhone 8
- iPhone 5s
- iPhone 7 Plus
- iPhone 5c
- iPhone 7
- iPhone 5
- iPhone SEiPhone 6s Plus
- iPod touch (6th generation)
- iPhone 6s

NOTE

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

Connect iPod/iPhone

Wired connection

Preparation

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

- 1 Connect the iPod/iPhone using the KCAiP103. (P.84)
- 2 Press the **HOME** button.
- **3** Touch **.**
- 4 Touch **iPod**. (P.13)
- To disconnect the iPod/iPhone connected with the cable:
- 1 Detach the iPod/iPhone.

Bluetooth connection

Pair the iPhone through Bluetooth.

Preparation

- To connect an iPhone via Bluetooth, register it as a Bluetooth device and do the profile setting for the connection beforehand. See Register the Bluetooth device (P.43) and Connect the Bluetooth device (P.44).
- Connect an iPhone via Bluetooth while Apple CarPlay and an iPod/iPhone are not connected via USB.
- With an Apple CarPlay-capable iPhone, turn off Apple CarPlay by operating the iPhone at functional setup before connecting iPhone.
 For details of the setup method, contact the manufacturer of the terminal.
- Select the method of making connections for outputting sound from the iPod source
- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch SETUP.
 - > SETUP screen appears.
- 3 Touch AV.
 - ➤ AV screen appears.
- 4 Touch iPod Bluetooth Connection.

Bluetooth (Default): Output sound using a Bluetooth device.

Bluetooth+HDMI: Output sound using an HDMI device and perform music selection, etc. using a Bluetooth device.

iPod/iPhone Basic Operation

NOTE

 Set the remote controller mode switch to AUD mode before starting operation, see Switch the operation mode (P.74).

Control screen



Open the drawer



Close the drawer



1 Track information

- Displays the information on the current file.
- Touch to display the category list screen. See Category search (P.33).
- Change the text size of the information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (P.60).

2 Artwork/VU meter

- · Displays/hides artwork area.
- The jacket of the currently being played file is displayed.
- Touch to switch between the artwork and VU meter.

3 Play mode indicator/Playing time

 ▶, ▶▶, etc.: Current play mode indicator Meanings of individual icons are as follows:
 ▶ (play), ▶▶ (fast forward), ◄◄ (fast backward), II (pause).

4 Operation keys

- Q : Searches for a track/file. For details on search operation, see **Search Operation** (P.33).
- I : Searches for the previous/next track/file.

Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)

- ►II : Plays or pauses.
- iii: Displays the Graphic Equalizer screen. (P.68)

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/file name on the list, playback will start.

6 Q / X

- ②: Repeats the current track/album. Each time you touch the key, repeat modes are switched in the following sequence:
 Song repeat (②), All songs repeat (②),
 Repeat off (②)
- : Randomly plays all tracks in the current album. Each time you touch the key, random modes are switched in the following sequence: Song random (), Random off ()

7 Indicator Items

• MUSIC: Identifies the music file.

Search Operation

You can search music files by the following operations.

- 1 Touch Q.
- **2** Touch **▼**.



3 Select a list type.

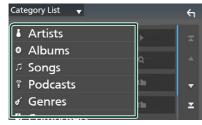


NOTE • For operations on the list screen, see *List screen*(P.16).

Category search

You can search for a file by selecting a category.

- 1 Touch Category List.
- 2 Touch the desired category.

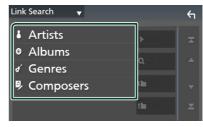


- ➤ The list corresponding to your selection appears.
- 3 Touch to select the desired item in the list. Repeat this step until you find the desired file.

Link search

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

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



- ➤ The list corresponding to your selection appears.
- 3 Touch the desired item in the content list.

Radio

Radio Basic Operation

Most functions can be controlled from the source control screen.

To listen to the Radio source, touch **Radio** icon on the source selection screen. (P.13)

NOTE

 Set the remote control mode switch to AUD mode before starting operation, see Switch the operation mode (P.74).

Control screen



Open the drawer



Close the drawer



1 Information display

Displays the information on the current station:
 Frequency

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

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

Preset#: Preset number

 Change the text size of the information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (P.60).

2 Seek mode

Touch to switch seek mode in the following sequence: **AUTO1**, **AUTO2**, **MANUAL**.

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

3 Operation keys

- Id Image: Tunes in a station. The method of switching frequencies can be changed (see 2 Seek mode).
- iii : Displays the Graphic Equalizer screen. (*P.68*)

4 Preset list

- Touching (/) allows you to change the display size.
- · Recalls the memorized station.
- When touched for 2 seconds, stores the currently being received station in the memory.

5 Function panel

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

- TI (FM only): Selects the traffic information mode. For details, see *Traffic Information* (*P.36*).
- **SETUP** (FM only): Displays the Radio SETUP screen. For details, see *Radio Setup (P.37)*.
- AME: Presets stations automatically. For details, see Auto memory (P.35).

- PTY (FM only): Searches for a program by program type. For details, see Search by program type (P.36).
- **MONO** (FM only) : Selects the Monaural reception mode.
- LO.S (FM only): Turns the Local Seek function on or off.

6 Band buttons

Switches bands (between FM and AM).

7 Indicator Items

- ST: A stereo broadcast is being received.
- MONO: The forced monaural function is on.
- AF: The AF search function is on.
- **EON**: The Radio Data System station is sending EON.
- LOS: The Local Seek function is on.
- **NEWS**: News bulletin interruption is in progress.
- RDS: Indicates the state of the Radio Data System station when the AF function is on. White: Radio Data System is being received. Orange: Radio Data System is not being received.
- 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 the memory automatically.

Touch desired band key.



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



3 Touch Yes.



➤ Auto memory starts.

Manual memory

You can store the currently being received station in the memory.

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

Selecting Operation

Preset select

You can list and select memorized stations.

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



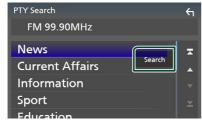
Search by program type (FM only)

You can tune in the station broadcasting the specified type of program when listening to FM.

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



- > TUNER PTY Mode screen appears.
- **2** Select a program type from the list.
- 3 Touch Search.



You can search for the station broadcasting the selected type of program.

Traffic Information (FM only)

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

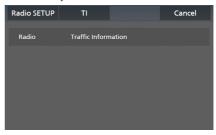
1 Touch on the left side of the screen. Touch TI.



> Traffic information mode is set.

■ When the traffic bulletin starts

The Traffic Information screen appears automatically.



NOTE

- It is necessary to turn on the Traffic Information function in order to allow the Traffic Information screen to appear automatically.
- The volume setting made during reception of traffic information is automatically memorized. When the traffic information is received next time, this unit recalls the volume setting automatically.
- To cancel Traffic Information: Touch Cancel.

Radio Setup

You can set tuner related parameters.

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



- ➤ Radio SETUP screen appears.
- 2 Set each function as follows.

NEWS

Sets a news bulletin interrupt time. Default is "OFF".

AF

When station reception is poor, automatically switches to the station that is broadcasting the same program over the same Radio Data System network. Default is "ON".

Regional

Sets whether to switch to the station only in the specific region using the "AF" control. Default is "ON".

Auto TP Seek

When traffic information station reception is poor, automatically searches for a station that can be received better. Default is "ON".

■ Language Select

Selects a display language for the PTY function.

DAB

DAB Basic Operation

Most functions can be controlled from the source control screen.

To listen to DAB source, touch **DAB** icon on the source selection screen. (P.13)

NOTE

 Set the remote controller mode switch to AUD mode before starting operation, see Switch the operation mode (P.74).

Control screen



Open the drawer



Close the drawer



1 Indicator display

Displays the received signal strength.

2 Information display

• Displays the information on the current station: Service Name

Content B: Song Title, Artist Name, Ensemble name

Content C: Now Playing, Next Program, Audio Quality

Touch to switch between the Control and Information screen.



• Change the text size of the information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (P.60).

3 Seek mode

Touch to switch seek modes in the following sequence: **AUTO1**, **AUTO2**, **MANUAL**.

- **AUTO1**: Tunes in a ensemble with good reception automatically.
- **AUTO2**: Tunes in the memorized ensemble one after another.
- **MANUAL**: Switches to the next ensemble manually.

4 Indicator display

P#: Preset number

CH#: Channel display

5 Operation keys

- Q: Displays the Service List screen. For details on search operation, see Service search (P.40).
- Id ►►I : Tunes in a ensemble, service, and component. The seek mode switching can be changed. (see 3 Seek mode).
- iii : Displays the Graphic Equalizer screen. (P.68)

6 Preset list

- Touching / allows you to change the display size.
- Recalls the memorized service.
- When touched for 2 seconds, stores the currently being received service in the memory.

7 Artwork/VU meter

- · Displays/hides artwork area.
- The picture data is displayed if available from current content.
- Touch to switch between the artwork and VU meter.

8 Function panel

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

- **TI**: Selects the traffic information mode. For details, see *Traffic Information (P.40)*.
- **SETUP**: Displays the DAB SETUP screen. For details, see *DAB Setup (P.41)*.
- PTY: Searches for a program by program type. For details, see Search by program type (P.39).
- **DLS**: Display the Dynamic Label Segment screen

9 Indicator Items

- · DAB: Digital Radio is being received.
- RDS: Radio Data System is being received.
- MC: Receiving service is displayed.
 White: Primary Component is received.
 Orange: Secondary Component is received.
- TI: Indicates the reception state of traffic information

White: TP is being received. Orange: TP is not being received.

Storing Service in Preset Memory

You can store the current receiving service in the memory.

- Select a service you wish to store in memory.
- **2** Touch (on the right side of the screen.



3 Touch P# (#:1-15) in which you want to store the station for 2 seconds until a beep sounds.

Selecting Operation

Search by program type

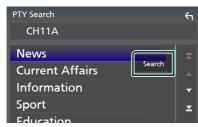
You can tune in the station broadcasting the specified type of program when listening to Digital Radio.

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 for the station broadcasting the selected type of program.

Service search

You can select a service from a list of all services received.

1 Touch Q.



2 Select the desired content from the list.



3

Touch and hold to find the latest service list.

QA-Z

Displays the keyboard screen.

Jump to the letter you entered (alphabet search).

Traffic Information

You can listen to and watch traffic information automatically when a traffic bulletin starts. However, this feature requires a Digital Radio that includes TI information.

1 Touch on the left side of the screen.



> Traffic information mode is set.

■ When the traffic bulletin starts

The Traffic Information screen appears automatically.



NOTE

- It is necessary to turn on the Traffic Information function in order to allow the Traffic Information screen to appear automatically.
- The volume setting made during reception of traffic information is automatically memorized.
 When the traffic information is received next time, this unit recalls the volume setting automatically.
- To cancel Traffic Information: Touch Cancel.

DAB Setup

You can set Digital Radio related parameters.

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





- ➤ DAB SETUP screen appears.
- 2 Set each function as follows.

■ Priority

If the same service is provided by Digital Radio during Radio Data System reception, automatically switches to Digital Radio. If the same service is provided by Radio Data System when reception of the service being provided by Digital Radio becomes poor, automatically switches to Radio Data System.

■ PTY Watch

If the service of the set program type begins with the ensemble being received, switches from any source to Digital Radio for service reception.

Announcement Select

Switches to the set Announcement service. For details, see **Announcement setup** (P.41).

Antenna Power

Sets power supply to the Digital Radio antenna. Set to "ON" when the Digital Radio antenna in use is equipped with a booster.

Default is "ON"

■ Related Service

When you select ON, the unit switches to a related service (if exists) when a DAB service network is not available.

Default is "OFF".

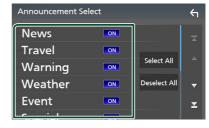
■ Language Select

Selects a display language for the PTY function.

Announcement setup

When the service for which ON is selected starts, switches from any source to Announcement to receive it.

- Touch Announcement Select on the DAB SETUP screen.
 - ➤ The Announcement Select screen appears.
- 2 Touch each Announcement list and set on or off.



■ Select All

Turn on the all announcements.

■ Deselect All

Turn off the all announcements.

NOTE

 The volume setting during reception of Announcement service is automatically stored.
 The next time the Announcement service is received, this unit recalls the volume setting automatically.

Bluetooth Control

Using the Bluetooth function allows you to use various functions such as listening to the audio file and making/receiving a call.

Information for using Bluetooth® devices



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

Bluetooth devices can be connected without cables and communication 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 be connected 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.
- Some Bluetooth devices are disconnected when this unit is turned off.
- The Bluetooth devices cannot be used while using Apple CarPlay.
- The Bluetooth currently connected with other device is disconnected when an iPhone compatible with Apple CarPlay is connected.

About the cell-phone and Bluetooth audio player

This unit conforms to the following Bluetooth specifications:

Version

Bluetooth Ver. 5.0

Profiles

Cell-phone:

HFP (V1.7) (Hands Free Profile) SPP (Serial Port Profile) PBAP (Phonebook Access Profile)

Audio player:

A2DP (Advanced Audio Distribution Profile) AVRCP (V1.6) (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 according to the procedure prescribed by Bluetooth SIG.
- However, it may be impossible for such units to communicate with your cell-phone depending on its type.

Register the Bluetooth device

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

You can register up to 10 Bluetooth devices.

NOTE

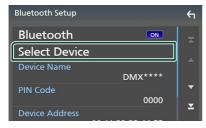
- · Up to 10 Bluetooth devices can be registered. If an attempt is made to register the 11th Bluetooth device, the Bluetooth device connected on the earliest date will be deleted to register the 11th one.
- · This unit is compatible with the Apple Easy Pairing function. When an iPod touch or iPhone connected via USB terminal previously is connected again, an authentication dialog appears. Performing operation for authentication on this unit or iOS smartphone registers the smartphone as a Bluetooth device.
- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch SETUP.



- SETUP Menu screen appears.
- 3 Touch Bluetooth.



- ➤ Bluetooth SETUP screen appears.
- 4 Touch Select Device on the Bluetooth Setup screen.



5 Touch +0 on the Select Device screen.



> Bluetooth pairing waiting dialog appears.

NOTE

- · You can also register an iPhone on the Apple CarPlay Device List screen. (P.22)
- When neither Apple CarPlay, Android Auto, nor. a Bluetooth Hands-Free phone is connected. pressing and holding the **==** button displays Bluetooth pairing waiting dialog.
- **6** Search for the unit ("DMX8190DABS") from your smartphone/cell-phone.

Complete steps 6 to 9 within 30 seconds.

- 7 Operate your smartphone/cell-phone according to the displayed messages.
 - Confirm the request both on the smartphone/cell-phone.



Input the PIN Code in your smartphone/cell-phone.

PIN Code is set to "0000" as the default.



8 Select the function you want to use.



■ HFP Hands Free1 / Hands Free2 / No Connection.

Select the hands-free number to connect.

■ A2DP/SPP Audio/App

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

■ PBAP Phonebook DL

Select if you want to transfer your phonebook data.

9 Touch Yes.

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

NOTE

- When registering the iPhone that is available for Apple CarPlay wirelessly, a confirmation message appears.
- Yes: Displays the Apple CarPlay screen for wireless connection.
- No: Apple CarPlay is not connected. When using Apple CarPlay, see Select an Apple CarPlay device (P.22).

Bluetooth Setup

NOTE

- The Bluetooth Setup is disabled while using Apple CarPlay.
- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch SETUP.
 - > SETUP Menu screen appears.
- 3 Touch Bluetooth.



- Bluetooth SETUP screen appears.
 See the following section for each setting.
- Connect the Bluetooth device (P.44)
- · Change the PIN Code (P.46)
- Change the device name (P.45)

Connect the Bluetooth device

- 1 Touch **Select Device** on the Bluetooth Setup screen.
- 2 Touch the name of the device you want to connect.



> Profile select screen appears.

NOTE

- If the icon is lighted, it means that the unit will use that device.
- You cannot select an Android device connected as an Android Auto device.

3 Set each profile as follows.



■ TEL (HFP) 1, TEL (HFP) 2

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

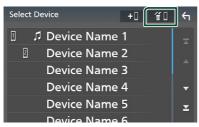
■ Audio (A2DP)/App (SPP)

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

4 Touch Close.

To delete the registered Bluetooth device

1 Touch on the Select Device screen.



2 Touch the device name to check.



Selects all Bluetooth devices.

Clears all check marks.

NOTE

- You cannot select an Android device connected as an Android Auto device.
- 3 Touch Delete.
 - ➤ Confirmation message appears.
- 4 Touch Yes.
 - ➤ All the selected device(s) is deleted.

NOTE

 If the device compatible with wireless Apple CarPlay is deleted, the same device is deleted from the Apple CarPlay device list screen.

Change the device name

- 1 Touch **Device Name** on the Bluetooth SETUP screen.
 - ➤ Change Device Name screen appears.
- 2 Touch and hold (BS).
- 3 Input the device name.



4 Touch Enter.

Change the PIN Code

- Touch PIN Code on the Bluetooth SETUP screen.
 - ➤ Change PIN Code screen appears.
- 2 Touch and hold .
- 3 Input the PIN Code.



4 Touch SET.

Playing the Bluetooth Audio Device

Most function can be controlled from the source control screen.

To select Bluetooth source, touch **Bluetooth** icon on the source selection screen. (P.13)

NOTE

- The Bluetooth audio source is disabled while using Apple CarPlay.
- The Bluetooth audio source is disabled when the device set as Audio(A2DP)/App(SPP) is using Android Auto.

Bluetooth basic operation



1 Artwork/VU meter

- · Displays/hides artwork area.
- Touch to switch between the artwork and VU meter.

2 Play mode indicator/Playing time

▶, **II**: Current play mode indicator

Meanings of individual icons are as follows:

- ► (play), ►► (fast forward), ◄◄ (fast backward),
- **II** (pause), **■** (stop).

3 Operation keys *

- Q: Searches for a file. See File search (P.47).
- I ► ► : Searches for the previous/next content.

Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)

- ►: Plays.
- III: Pauses.
- Displays the Bluetooth SETUP screen. (P.44)
- iii : Displays the Graphic Equalizer screen. (P.68)

4 KENWOOD Music Mix

Bluetooth audio devices can be switched easily to play music. See **KENWOOD Music Mix** (P.47).

5 Q / 🗯 *

 Repeats the current track/folder. Each time you touch the key, repeat modes are switched in the following sequence:
 File repeat (o), Folder repeat (I), All

songs repeat (🕶), Repeat off (🗭)

• Randomly plays all tracks in the current folder. Each time you touch the key, random modes are switched in the following sequence: Folder random (), All random (), Random off ()

6 Information display *

- Displays the name of track information.
- · Connected device name.
- Change the text size of the information when the "Small Audio Text" is set to "ON"/"OFF" in the User Interface screen (*P.60*).

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

NOTE

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

■ KENWOOD Music Mix

Up to 5 Bluetooth audio device can be connected and switched easily to play music.

- 1 Touch
 - ➤ A list of registered devices is displayed.
- 2 Touch of device name you want to connect.
 - Touching displays the Bluetooth device connection setup screen. (P.44)
 - Touching on the left of the this device.



- : Device used normally.
- : Device used for KENWOOD MusicMix

- **3** Touch **►** (white) on the left of the name of the device to be played.
 - ► (white) changes to ► (purple) and starts playback.



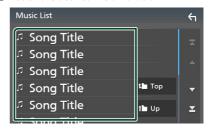
- (Gray): Not connected.
- (White): Connected.
- (Purple) : During playback.
- 4 Touch 与

NOTE

- · If a connected Bluetooth audio device is operated to play music, connections are switched.
- · When a Bluetooth source is switched to another one, its settings are deleted and the connection is restored to the connection before source switchina.
- · You cannot select an Android device connected as an Android Auto device

File search

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



When you touch a folder its contents are displayed.

3 Touch the desired item in the content list.

> Playback starts.

NOTE

• For operations in the list screen, see *List screen* (P.16).

Using the Hands-Free Unit

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

NOTE

- If you use the hands-free function frequently, move the TEL short-cut button (icon) to the Home screen. (P.14)
- While Apple CarPlay or Android Auto is connected, the Bluetooth Hands-Free function and two Bluetooth devices connections cannot be used. Only the Apple CarPlay or Android Auto Hands-Free function can be used.

Make a call

- 1 Press the HOME button.
- **2** Touch **Ⅲ**.
- 3 Touch TEL.



➤ Hands Free screen appears.

NOTE

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

4 Select a dialing method.



- Call using call records
- Eall using the phonebook
- ★: Call using the preset number
- 📅 : Call by entering a phone number

Select the cell-phone to use

When you connect two cell-phones

- 1) Touch Device name 1 Device name 2 to select the phone you want to use.
- Bluetooth SETUP
- 1) Touch 🛂.
 Bluetooth SETUP screen appears.
- Voice Recognition
- 1) Touch (P.50)

NOTE

- Status icons such as battery and antenna icons may differ from those displayed on the cellphone.
- 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 using the phonebook

- 1 Touch
- 2 Touch Q A-Z
- 3 Select the initial.



- · Characters with no corresponding name will not appear.
- · A first character with an accent character such as "ü" can be searched for with a non-accent character "u". A character with an accent character in a sentence cannot be searched for.
- 4 Select the person you want to call from the list.



5 Select the phone number from the list.



NOTE

• You can sort the phone numbers in the list by last name or first name. For details, see Hands-Free Setup (P.52).

Call using the preset number

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



Call by entering a phone number

- 1 Touch
- 2 Enter a phone number with number keys.



3 Touch

Voice Recognition

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

1 Press the □■ button for 1 second.



- ➤ Voice Recognition screen appears.
- 2 Start speaking.

NOTE

You can use the 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 picture from the view camera, this screen does not appear even if a call comes in.

To end call

1 While talking, touch ____.

Operations during a call



- Adjust the volume of your voice
- 1) Touch Speech Quality.
- 2) Touch **◄** or **▶** for **Microphone Level**.



Adjust the receiver volume

Press the ▼ or ▲ button.



Mute your voice

Touch to mute or not to mute your voice.

Output the dial tone

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

Switching between speaking voice output destinations

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

Call-waiting

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

Each time you touch , the caller will change to the other one.

When you touch , the current call will end to be switched to the call waiting on hold.

● To close the Hands-Free popup screen

Touching \times to close the Hands-Free popup screen.

To display it again

- 1) Press the **HOME** button.
- ② Touch
- ③ Touch TEL.

■ Phone number preset

You can register frequently used phone numbers in 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.49*).

■ Add number direct

Enter the telephone number directly and touch **SET**. See *Call by entering a phone number (P.49)*.

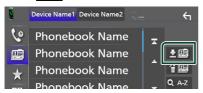
Delete

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

Phonebook transfer

You can transfer phonebook data from your Bluetooth smartphone using PBAP.

- 1 Touch
- **2** Touch **모** .



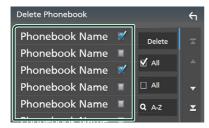
➤ Phonebook data transfer starts.

NOTE

- If the Phonebook contains more than 1000 entries, Phonebook data cannot be transferred.
- If no Phonebook has been downloaded, touching Download Phonebook Now will start downloading the Phonebook.

Phonebook deletion

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



Checks all boxes.

Clears all check marks.

- 3 Touch Delete.
 - ➤ Confirmation message appears.
- 4 Touch Yes.

Hands-Free Setup

You can make various settings for the Hands-Free function.

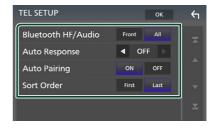
- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch SETUP.



- SETUP Menu screen appears.
- 3 Touch Bluetooth.



- ➤ Bluetooth SETUP screen appears.
- 4 Touch TEL SETUP.
 - ➤ TEL SETUP screen appears.
- 5 Set each function as follows.



■ Bluetooth HF/Audio

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

Front: Outputs sound from the front speakers.

All (Default): Outputs sound from all speakers.

■ Auto Response*

Set the automatic response time to pick-up an incoming call.

OFF (Default): Turns off the Automatic response function.

1/5/10/15/20/25/30: Sets the ringing time (second).

Auto Pairing

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

ON (Default): Turns on the Apple Auto Pairing function.

OFF: Turns off the Apple Auto Pairing function.

Sort Order

Set how to sort the data in the cell-phone phonebook.

First: Sorts data by the first name.

Last (Default): Sorts data by the last name.

* Either the auto response time set on this unit or the time set on the cell-phone, whichever is shorter takes effect.

6 Touch OK.



Other External Components

View Camera

NOTE

- · To connect a camera, see P.83.
- To use a rear view camera, a REVERSE lead connection is required. (P.81)
- If Rear Camera Interruption is active the camera screen is displayed when you shift the gear to the reverse (R) position.

Display the camera screen

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch Camera.



- ➤ View camera screen appears.
- 3 Adjust each item as follows.

To erase the caution message, touch the screen.



1 Switching the View Camera *¹

Touch to display the camera switching keys. It is necessary to set "Camera Assignment Settings" beforehand. See **To switch the view camera (P.54**).

2 Camera off

Touch to exit the camera screen.

3 Switching the Guideline *2

Touching each time turns on or off the guideline.

4 Switching the Angle *2

Touching each time changes camera angles.

- *1 When two or more cameras of rear, front, left, and right are connected with this unit.
- *2 When CMOS-3xx series is connected with this unit.

To switch the view camera

- **1** Touch 1.
 - ➤ Camera switching keys appear left/right side.
- 2 Select a view camera you want to switch.





NOTE

 To switch to the picture other than selectable view camera from the camera switching keys, change the key function of except "Rear" in

Camera Assignment Settings (P.55)

Camera Setup

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



> Camera screen appears.

4 Set each item as follows.

■ Camera Assignment Settings

Set up the camera assignment. See **To set up the camera assignment settings (P.55)**.

■ Rear Camera Interruption

- **ON**: Displays the picture from the rear view camera when you shift the gear to the reverse (R) position.
- **OFF** (Default): Select this when no camera is connected.

■ Rear Camera for Car interface

- **ON**: Select when you connected an external system unit. Neither buttons nor titles are displayed.
- **OFF** (Default): Select when you connected a rear camera.

■ Rear Camera Settings *1

Adjusts the CMOS-3xx series with ID 1 ("Rear Camera") set. For details, see the instruction manual of your camera.

Parking Guidelines

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

Default is "ON".

■ Guidelines SETUP

If you select **ON** for **Parking Guidelines**, you can adjust the parking guidelines. See **To adjust the parking guidelines** (**P.56**).

■ Front Camera Settings *2

Adjusts the CMOS-3xx series with ID 2 ("Front Camera") set. For details, see the instruction manual of your camera.

■ Front Camera Interruption *3

10 sec / 15 sec (Default) / 20 sec: The front camera screen is displayed when return the gear from the reverse (R) position.

OFF: Cancel.

- *1 When CMOS-3xx series is connected with this unit.
- *2 To use the function, it is necessary to connect CMOS-3xx series and to set **Camera**

Assignment Settings to Front (P.55)

*3 To use the function, it is necessary to set **Rear**Camera Interruption to **ON**, to set **Rear**Camera for Car interface to **OFF**, and to set **Camera Assignment Settings** to **Front**. (*P.55*)

To set up the camera assignment settings

- 1 Touch Camera Assignment Settings on the Camera screen. (P.54)
- 2 Set each item as follows.

■ FRONT VIEW CAMERA / DASH CAM

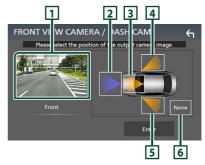
Set the camera assignment from view camera connected to Front view camera/ Dashboard camera input terminal.

AV-IN

Set the camera assignment from view camera connected to AV-IN input terminal.

For Front view camera/Dashboard camera input terminal:

- 1 Touch FRONT VIEW CAMERA / DASH CAM.
 - Displays the picture from view camera connected to Front view camera/ Dashboard camera input terminal.
- **2** Select the view camera to set up.



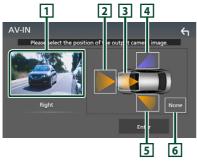
1 Picture from view camera

Displays the picture from view camera connected to Front view camera/Dashboard camera input terminal. **(P.85)**

- 2 Front
- 3 Dashboard Camera
- 4 Right
- 5 Left
- 6 None
- 3 Touch Enter.

For AV-IN input terminal:

- 1 Touch AV-IN.
 - ➤ Displays the picture from view camera connected to AV-IN input terminal.
- **2** Select the view camera to set up.



1 Picture from view camera

Displays the picture from view camera connected to AV-IN input terminal. (P.85)

- 2 Front
- 3 Dashboard Camera
- 4 Right
- 5 Left
- 6 None
- 3 Touch Enter.

NOTE

• The Dashboard Camera can be selected when it is connected. **(P.85)**

To adjust the parking guidelines

NOTE

- Install the rear view camera in the appropriate position according to the instruction manual supplied with the rear view camera.
- When adjusting the parking guidelines, make sure to apply the parking brake to prevent the car from moving.
- 1 Touch **Parking Guidelines** in the Camera screen and set to **ON**. (*P.54*)
- 2 Touch **Guidelines SETUP** on the Camera screen.
- Adjust the parking guidelines by selecting the mark.



4 Adjusting the position of the selected mark.



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

NOTE

• Touch **Initialise** and then touch **Yes** to set all the marks to their initial default position.

Use Dashboard Camera

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

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

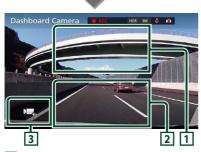
NOTE

- To connect a dashboard camera, see P.85.
- To use the dashboard camera function, it is necessary to set "Camera Assignment Settings" to "Dashboard Camera" (**P.55**)

Display the dashboard camera screen

- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch Camera.





1 Switching the View Camera

Touch to display the camera switching keys. It is necessary to set "Camera Assignment Settings" beforehand. See **To switch the view camera (P.54**).

2 Camera off

Touch to exit the camera screen.

3 Key display

Touch to display the dashboard camera control keys.

External audio/video players (AV-IN)

- Connect an external component to the AV-IN input terminal. (P.83)
- 2 Select AV-IN as the source. (P.13)
- 3 Turn on the connected component and start playing the source.

NOTE

 To select the AV-IN source, it is necessary to set "AV-IN" to "None" in Camera Assignment Settings. (P.55)

HDMI source

- Connect your smartphone to the HDMI input terminal. (P.83)
 - Use HDMI cable KCA-HD100 (optional accessory).
- 2 Select **HDMI** as the source. (P.13)
- 3 Start an application or playback on your smartphone.

TV tuner

You can connect the TV tuner (commercially available) with this unit and watch TV.

Preparation

- When you use TV control function, connect the TV tuner (commercially available) and set 3rd Party TV Tuner Control in AV Setup (P.63) to ON.
- The TV tuner can be controlled with its supplied remote control through the remote sensor on the front panel of this unit.
- 1 Select TV as the source. (P.13)
- 2 Touch Key display area.



3 Touch TV Ctrl.





- Displays the menu/Enters selected item Touch MENU/OK.
- Moves the cursor Touch \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright .
- Exits menu control
 Touch 4

Setup

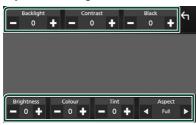
Monitor Screen Setup

You can adjust the image quality of video, menu screen, etc.

- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch Screen Adjustment.



- Screen Adjustment screen appears.
- 3 Adjust each setting as follows.



■ Backlight / Contrast / Black / Brightness / Colour / Tint

Adjust each setting.

Aspect

Select a screen mode.

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

Normal: Displays video at the ratio of 4:3.

Auto:

USB device: Displays video fully (vertically or horizontally) with no ratio change.

NOTE

 Settings to adjust vary depending on the current source.

System Setup

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch SETUP.



See the following section for each setting.

- Set up AV (P.63)
- Set up display (P.61)
- Set up the user interface (P.59)
- Set up camera (P.54)
- Set up special (P.61)
- · Set up Bluetooth (P.44)
- Set up security (P.9)

User Interface Setup

You can setup user interface parameters.

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



- ➤ User Interface screen appears.
- 4 Set each parameter as follows.

■ Small Audio Text

Change the text size for the source control screen.

ON (Default): Change the text size smaller. **OFF**: Cancel.

■ Steering Remote Controller

Sets the desired function in the steering remote controller. (Contact your KENWOOD dealer for details.)

■ Beep

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

■ Widget SETUP

Set up the widget displayed on the Home screen. (P.19)

■ Vehicle Adaptor Information *1

Displays the vehicle information.

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

■ Beep for Parking distance control *1

Sets whether to generate a warning tone when the onboard proximity sensor detects a human or object.

Consult your KENWOOD dealer for details.

■ Parking Distance Display *1

You can display information about obstacles around the car.

ON: Always displays information.

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

OFF: Cancels.

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

■ Parking Distance Position *1

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

"Left"/"Right" (Default)

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

■ Language Select

Select a language.

■ Time Format

Select the time display format.

"12-Hour"/"24-Hour" (Default)

■ Clock

GPS-SYNC (Default): Synchronizes the clock time with the GPS.

Manual: Set the clock manually.

■ Time Zone

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

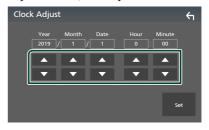
■ Clock Adjust

If you select **Manual** for Clock, adjust the date and time manually. **(P.60)**

*1 This setting is available when a commercial adaptor is connected.

Adjust the date and time manually

- 1 Touch Clock on the User Interface screen.
- 2 Select Manual.
- **3** Touch **Time Zone** on the User Interface screen.
- 4 Select the time zone.
- 5 Touch Clock Adjust on the User Interface screen.
- 6 Adjust the date, then adjust the time.



7 Touch Set.

Special Setup

You can setup special parameters.

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



- ➤ Special screen appears.
- 4 Set each parameter as follows.

■ DEMO

Select the demonstration mode. Default is "ON"

■ Software Information

Confirm the software version of this unit. **(P.61)**

Open Source Licenses

Display the open source licenses.

Initialise

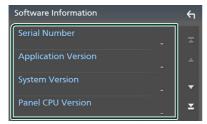
Touch **Initialise** and then touch **Yes** to set all the settings to the initial default settings.

· Audio SETUP Memory is not initialized.

Software Information

You can confirm the software version of this unit.

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



NOTE

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

Display Setup

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



- ➤ Display screen appears.
- 4 Set each parameter as follows.

■ Dimmer

Select the dimmer mode.

OFF: Does not dim the display and keys.

ON: Dims the display and keys.

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 the screen is off, or while watching video files on USB. etc.

"ON" (Default)/"OFF"

■ Key Colour

You can set the key illumination color. (P.62)

■ Wallpaper Customize

You can change the wallpaper image or color. (P.62)

■ Viewing Angle

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

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

■ Screen transition effect

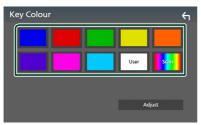
Select whether to use the screen transition effect when the source control screen is switched to the Home screen.

"ON" (Default)/"OFF"

Customizing the key color

You can set the key illumination color.

- 1 Touch **Key Colour** on the Display screen.
- 2 Touch the desired color.



User

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

Scan

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

3 Touch 🕤

To register an original color

You can register your original color.

- 1 Touch User on the Key Color screen.
- 2 Touch Adjust.
- 3 Use and + to adjust each color value.



4 Touch 🔄 .

Change the wallpaper image or color

- 1 Touch Wallpaper Customize on the Display screen.
- 2 Select an image.



- *1 The album art currently being displayed is used as a wallpaper.
- *2 Select a wallpaper color in advance.
- *3 Select an original image in advance.

To select wallpaper color

- 1 Touch Wallpaper Colour on the Background screen.
- 2 Select a wallpaper color.



- *1 The color you have selected at **Key Colour** is added on the image. If you select "Scan" at **Key Colour**, you cannot select this image.
- 3 Touch 🔄 .

To register an original image

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

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



3 Touch Enter.



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

NOTE

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

AV Setup

You can set AV parameters.

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



- > AV screen appears.
- 4 Set each parameter as follows.
- Android Auto Device Select

Select the device to be used in the Android Auto mode. **(P.64)**

■ Apple CarPlay Device List

Select the device to be used in the Apple CarPlay mode. **(P.22)**

■ Speech Quality Adjust

Adjust the speech quality.

Microphone Level: Adjust the level of microphone gain. Default is "0".

Echo Cancel Level: Adjust the level of echo cancellation. Default is "0".

Noise Reduction Level: Reduce the noise generated in the surrounding environment without changing the microphone volume. Use this function when the voice of caller is not clear. Default is "0".

■ iPod Bluetooth Connection

See Select the method of making connections for outputting sound from the iPod source (P.31).

■ TV Tuner Control

Sets when connecting the TV tuner to AV-IN input terminal.

To use this function, it is necessary to set "AV-IN" to "None" in **Camera Assignment Settings**. (P.55)

ON: Set to ON when connecting the 3rd party TV tuner. AV-IN Name is set to TV. If you connect the TV tuner made by DOS and watch TV, you can perform some simple operations by touching the screen of this unit.

OFF (Default): Set to OFF when not connecting the 3rd party TV tuner.

AV-OUT

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

OFF, AV-IN, USB or iPod

- You cannot select AV-IN if the AV-IN input terminal is used for camera.
- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, iPod, Spotify or Bluetooth audio as the main source, you cannot select USB or iPod as the AV output source.
- If you select Wireless Mirroring, Apple CarPlay or Android Auto as the main source, you cannot select USB or iPod as the AV output source.

Driving Position

Select the driving position (left or right). "Left" (Default)/"Right"

■ Wi-Fi SETUP

You can change the device name and display the device address, password. See **Change the device name (P.64)**.

Select an Android device

- Touch Android Auto Device Select on the AV screen.
- 2 Select an Android device.



Change the device name

- 1 Touch Wi-Fi SETUP on the AV screen.
- 2 Touch Device Name.
 - ➤ Change Device Name screen appears.
- 3 Touch and hold (BS).
- 4 Input the device name.



5 Touch Enter.

Controlling Audio

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

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch Audio.





See the following section for each setting.

- Set up speaker / X'over (P.66)
- Controlling equalizer (P.68)
- Set listening position / DTA (P.72)
- Controlling general audio (Fader / Balance) (P.68)
- · Set volume offset (P.69)
- Performing zone control (P.70)
- Set sound effect (P.71)
- Memory/recall the audio settings (P.73)

3-way speaker system setup

Select the appropriate crossover network mode for the speaker system used (2-way or 3-way speaker system).

- 1 Press the **HOME** button.
 - ➤ HOME screen appears.
- 2 Touch
 - > Source selection screen appears.
- 3 Touch STANDBY.

4 Press the button ① followed by the button ② for 1 second at the same time.



- > Speaker system select screen appears.
- 5 Select the crossover network mode.



- ➤ A confirmation screen appears.
- 6 Touch Yes.

NOTE

- When the 3-way speaker system is selected, the following functions are disabled.
 - Front focus of Listening Position / DTA
 - Fader for Controlling General Audio
 - Zone Control
 - Selection of the speakers to output sound from the cell-phone of Bluetooth HF/Audio
 - Beep for User Interface Setup
- Connecting 3-way speakers with the 2-way mode selected can break the speakers.

Speaker / X'over setup

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch Audio.
 - ➤ Audio screen appears.
- 3 Touch Speaker / X'over.



4 Select a car type.

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

When you select your car type, the Delay Time Alignment is activated 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 parameter (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 selected, the speaker crossover network is set automatically.

■ Location (Only for Front, Rear)

Select the speaker position you have installed.

■ Tweeter (Only for Front)

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

None, Small, Medium, Large

X'over

Display the speaker crossover setup screen.

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

For details, see **Crossover network setup** (P.66)

When Speaker network is set to 3-way:



NOTE

- For how to switch to the 3-way speaker system, see 3-way speaker system setup (P.65).
 Connecting 3-way speakers with the 2-way mode selected can break the speakers.
- · Select "None" if you have no speakers.

Crossover network setup

You can set the crossover frequency of speakers.

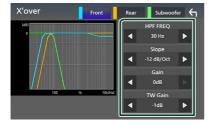
1 Touch X'over.



2 Touch the speaker to set up.



3 Set each parameter as follows.



■ HPF FREO

High Pass Filter adjustment. (When Front or Rear is selected on the Speaker Select screen)

■ LPF FREQ

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

■ Slope *1

Set a crossover slope.

Gain

Adjust the gain of the front speaker, rear speaker, or subwoofer.

■ TW Gain *2

Adjust the tweeter level. (When Front is selected on the Speaker Select screen)

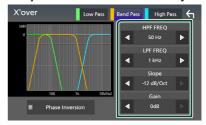
■ Phase Inversion *3

Set the phase of subwoofer output.

Check **Phase Inversion** to shift the phase 180 degrees. (When Subwoofer is selected on the 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.

When Speaker network is set to 3-way:



FREQ (High Pass)

High Pass Filter adjustment.

■ HPF FREQ, LPF FREQ (Band Pass)

Band Pass Filter adjustment. (When Mid Range Speaker is selected on the Speaker Select screen)

■ FREQ (Low Pass)

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

■ Slope *1 *2

Set a crossover slope.

■ Gain

Set the gain of each speaker.

Phase Inversion

Set the phase of tweeter, mid range, and woofer output.

Check **Phase Inversion** to shift the phase 180 dearees.

- *1 Only when "LPF FREQ"/"HPF FREQ" (Band Pass) is set to a mode other than "Through" in **X'over**
- *2 Only when "FREQ" (Low Pass) is set to a mode other than "Through" in X'over.

NOTE

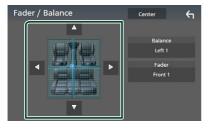
• For how to switch to the 3-way speaker system, see 3-way speaker system setup (P.65). Connecting 3-way speakers with the 2-way mode selected can break the speakers.

Controlling General Audio

- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch Audio.
 - ➤ Audio screen appears.
- 3 Touch Fader / Balance.



4 Set each parameter as follows.



■ Fader / Balance

Adjust the volume balance around the touched area.

- ◀ and ► adjust the right and left volume balance.
- ▲ and ▼ adjust the front and rear volume balance.

Center

Clear the adjustment.

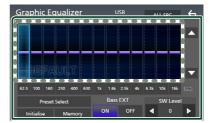
Equalizer Control

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

- 1 Press the MENU button.
 - ➤ Popup menu appears.
- 2 Touch Audio.
 - ➤ Audio screen appears.
- 3 Touch EQ / SW Level.



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



■ Gain level (area in dotted frame)

Adjust the gain level by touching each frequency bar.

You can select a frequency bar and adjust its level by \blacktriangle , \blacktriangledown .

■ Preset Select

Display the screen for selecting the preset equalizer curve. **(P.69)**

Memory

Saves the adjusted equalizer curve as "User1" to "User4". **(P.69)**

Initialise

Initialize (flatten) the current EQ curve.

ALL SRC

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

■ Bass EXT (Bass Extend Settings)

When turned on, the frequencies lower than 62.5 Hz is set to the same gain level (62.5 Hz).

SW Level

Adjust the subwoofer volume. This setting is not available when Subwoofer is set to "None". See **Speaker/X'over setup (P.66)**.

Recall the EQ curve

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



NOTE

• **iPod** is available for the iPod, Apple CarPlay and Spotify sources and it is connected via USB.

Save the EQ curve

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



Volume Offset

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

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



4 Touch + or - to adjust the level.



Initialise

Returns to the initial settings.

NOTE

 If you have increased the volume first, then reduce the volume using "Volume Offset".
 Switching the current source to another source suddenly may output extremely loud sound.

Zone Control

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

1 Press the MENU button.

> Popup menu appears.

2 Touch Audio.

➤ Audio screen appears.

3 Touch Zone Control.

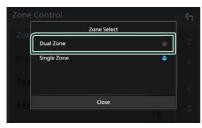


> Zone Control screen appears.

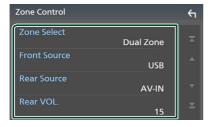
4 Touch Zone Select.



5 Touch Dual Zone.



6 Set each source as follows.



■ Zone Select

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

■ Front Source, Rear Source

Select an audio source for each.

Rear Source: "AV-IN"/"iPod"/"USB"/"OFF"

Rear VOL.

Adjust the rear source volume.

NOTE

- When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.
- When the dual zone function is set to on, the following functions are not available.
 - Output from the subwoofer
 - Subwoofer Level/Bass Boost (P.71)
- Equalizer Control/Sound Effect/Listening Position (P.68, 71, 72)
- Speaker Setup (P.66)
- High-resolution Sound Source File Playback
- You cannot select AV-IN if the AV-IN input terminal is used for camera.
- You cannot select iPod if it is connected via Bluetooth.
- If you select Radio, USB, iPod, Spotify or Bluetooth audio as the Front Source, you cannot select USB, iPod as the Rear Source.
- If you select Wireless Mirroring, Apple CarPlay or Android Auto as the Front Source, you cannot select USB or iPod as the Rear Source.

Sound Effect

You can set sound effects.

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



4 Set each parameter as follows.



■ Bass Boost

Set the amount of bass boost "OFF"/"1"/"2"/"3".

Loudness

Set the amount of boost of low and high tones.

"OFF", "Low", "High"

■ Drive Equalizer

Reduces the driving noise by raising the bandwidth.

"OFF", "ON"

■ Space Enhancer

Select the feeling of sound space enhancement.

"OFF"/"Small"/"Medium"/"Large".

This setting is not available for the Radio tuner source.

Supreme

Turn ON/OFF the Supreme function.

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

■ Realizer

Virtually make the sound more realistic using the Digital Signal Processor (DSP) system. Select the level from "OFF"/"1"/"2"/"3".

■ Stage EQ

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

Listening Position / DTA

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

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

- 1 Press the MENU button.
 - > Popup menu appears.
- 2 Touch Audio.
 - ➤ Audio screen appears.
- 3 Touch Position / DTA.

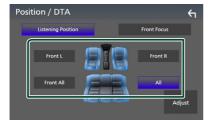


- · Set up Listening Position (P.72)
- Set up Front Focus (P.72)

Listening Position

Adjust the sound delay time so that the sounds from different speakers arrive at the listener sitting on the selected seat at the same time.

- 1 Touch Listening Position on the Position / DTA screen.
- 2 Select a 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 initialize the Delay and Level settings, touch **Initialise** and **YES** on the confirmation screen.

■ Front Focus

You can focus the imaginary sound image on the front of the selected seat.

- 1 Touch Front Focus in the Position / DTA screen.
- 2 Select a front focus position.

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



Front Focus fine adjustment

- 1 Touch Adjust.
- 2 Touch Delay.
- 3 Set each parameter as follows.



■ Sound Image LR (Front)

Focus the sound image on the front of front seats.

■ Sound Image LR (Rear)

Focus the sound image on the front of rear seats.

■ Size of the Virtual Sound Field

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

■ Subwoofer Delay

Adjust the delay time of subwoofer sound.

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



NOTE

• To initialize the Delay and Level settings, touch **Initialise** and **YES** on the confirmation screen.

Audio Setup memory

Audio Control settings can be memorized.

The memorized settings can be recalled at any time.

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



■ SETUP Memory

Lock or unlock the Audio SETUP Memory/ Recall/Clear.

Audio SETUP Memory

Memorize the current audio settings.

 Fader / Balance, Speaker / X'over, Equalizer (User Preset, SW Level), Position / DTA, Sound Effect (P.65)

Audio SETUP Recall

Recall the memorized audio setting.

Audio SETUP Clear

Clear the Audio SETUP Memory and the currently memorized audio settings.

Remote control

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

A CAUTION

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

Battery Installation

If the remote control operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted. In such instances, replace the both batteries with new ones.

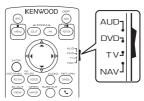
1 Insert two "AAA"/"R03"-size batteries with the ⊕ and ⊖ poles aligned properly, following the illustration inside the case.



Functions of the Remote control Buttons

Switch the operation mode

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



AUD mode

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

■ DVD mode/NAV mode/TV mode Not used.

NOTE

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

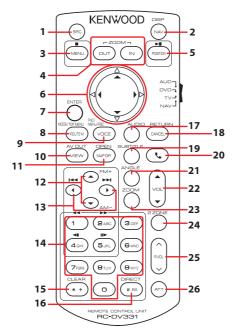
■ Direct search mode

Using the remote control, you can jump directly to the desired frequency value of the Radio source by entering the number corresponding to the content.

NOTE

- This operation cannot be performed for the USB device and iPod.
- 1 Press the #BS button.
- 2 Enter the number of the content you want to play using the numeric keypad.
- 3 Press the ◀ or ▶ button.
 - ➤ The content corresponding to the number you entered is played.

Basic Operation



	Key Name	Mode switch	Function	
1	SRC	AUD	Switches to the source to be played. In hands-free mode, hangs up the phone.	
2	NAV	-	Displays the APP (Apple CarPlay/Android Auto/Wireless Mirroring) screen.	
3	MENU	_	Not used.	
4	OUT, IN	_	Not used.	
5	POSITION	AUD	Pauses the track or file, and resumes playing by pressing twice. For the Radio and DAB sources, switches the seek mode.	
6	Cursor Key	_	Not used.	
7	ENTER	-	Performs the selected function.	
8	ROUTE M	AUD	Screen mode changes each time you press this key during video playback.	
9	VOICE	AUD	Displays the control screen of current source. (USB, iPod)	
10	VIEW	AUD	Switches the AV source to be output.	
11	MAP DIR	AUD	Not used.	
12	▲/▼	AUD	Selects the folder to be played. For the Radio source, selects FM/AM band to be received.	
13	⋖/ ▶	AUD	Selects the track or file to be played. For the Radio and DAB sources, switches to broadcast stations received by the unit.	

Remote control

	Key Name	Mode switch	Function	
14	Numeric Keypad	AUD For the Radio and DAB sources, allows you to enter the preset number. If the preset number is one digit, press the number. If the preset number is two digits, press continuously the numbers within 3 seconds. Pressing within 3 seconds allows you to determine the preset number one digit. Allows you to enter the number to search in the direct search mode. For details on the direct search mode, see <i>Direct search mode (P.74)</i> .		
15	* +	_	Not used.	
16	# BS	AUD	Switches to the direct search mode. For details on the direct search mode, see <i>Direct search mode (P.74)</i> .	
17	AUDIO	_	Not used.	
18	CANCEL	_	Not used.	
19	SUBTITLE	-	Not used.	
20	٠.	_	When a call comes in, answers the call.	
21	ANGLE	-	Not used.	
22	Vol ▲▼	-	Adjusts the volume.	
23	ZOOM	-	Not used.	
24	2 ZONE	AUD	Switches the Dual Zone function on and off.	
25	R.VOL 🔨	-	Adjusts volume at rear when the Dual Zone function is on.	
26	ATT	_	Lowers the volume when pressed once. Restores the previous volume when pressed twice.	

Connection/Installation

Before Installation

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

▲ WARNINGS

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

A CAUTION

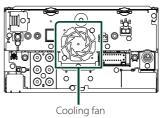
 Install this unit in the console of your vehicle.
 Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

NOTE

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

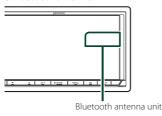
- ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- If the console has a lid, make sure to install the unit so that the front panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the

 wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊕ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit is blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.

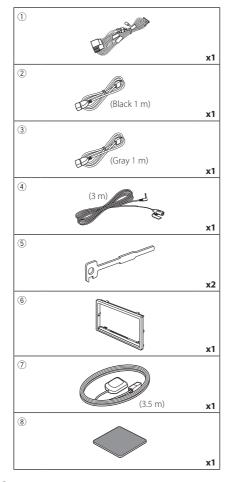


Connection/Installation

- 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.



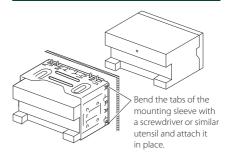
Supplied accessories for installation



Installation procedure

- To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ terminal of the battery.
- 2) Make the proper input and output wire connections for each unit.
- 3) Connect the wire on the wiring harness.
- 4) Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
- 5) Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
- 6) Connect the wiring harness connector to the unit.
- 7) Install the unit in your car.
- 8) Reconnect the \bigcirc terminal of the battery.
- 9) Perform the Initial Setup. See *Initial setup (P.8)*.

Installing the unit

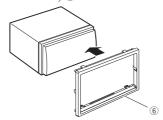


NOTE

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

Trim plate

1) Attach accessory 6 to the unit.



GPS antenna

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

To mount the GPS antenna inside your vehicle:

- 1) Clean your dashboard or other surface.
- 2) Remove the separator of the metal plate (accessory (8)).
- Press the metal plate (accessory ®) down firmly on your dashboard or other mounting surface. You can bend the metal plate (accessory ®) to conform to a curved surface, if necessary.
- 4) Remove the separator of the GPS antenna (accessory ⑦), and stick the antenna to the metal plate (accessory ⑧).

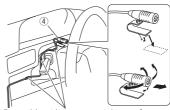


NOTE

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

Microphone unit

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

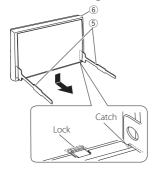


Fix a cable with a commercial item of tape.

Removing the trim plate

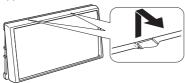
1) Engage the catch pins on the extraction key (accessory (§)) and remove the two locks on the lower level.

Lower the trim plate (accessory **(6)**) and pull it forward as shown in the figure.



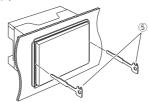
NOTE

- The trim plate can be removed from the top side in the same manner.
- 2) When the lower level is removed, remove the upper two locations.

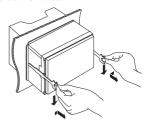


Removing the unit

- 1) Remove the trim plate by referring to step 1 in "Removing the trim plate".
- 2) Insert the two extraction key (accessory ⑤) deeply into the slots on each side, as shown.

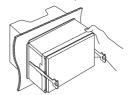


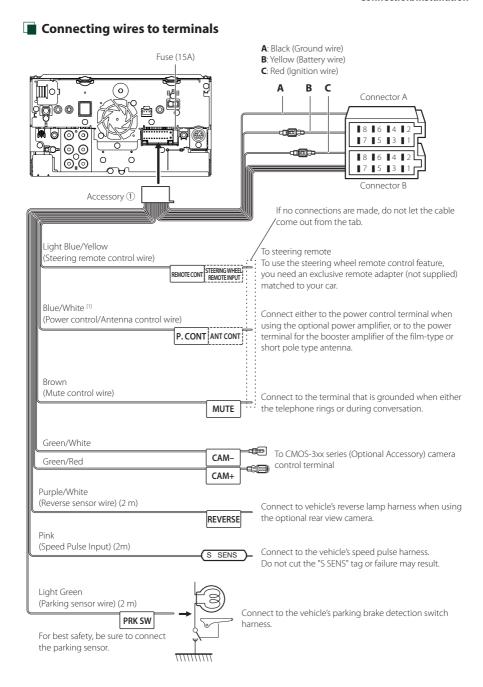
 Lower the extraction key toward the bottom, and pull out the unit halfway while pressing towards the inside.



NOTE

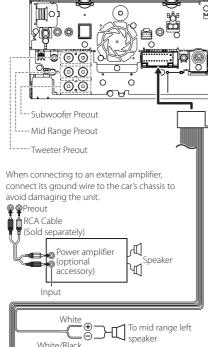
- Be careful to avoid injury from the catch pins on the extraction key.
- 4) Pull the unit all the way out with your hands, being careful not to drop it.

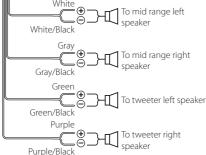




[1] [2]: Blue/White wire is provided two wires, [1] and [2]. Blue/White wire total output ([1] + [2]): 12 V == 350 mA

3-way speaker system setup





Speaker impedance: 4-8 Ω

NOTE

- For speaker system setup, see 3-way speaker system setup (P.65).
- For speaker setup and crossover setup, see
 Speaker / X'over setup (P.66).
- For how to connect speaker wires to terminals other than speaker terminals and Preout terminals, see Connecting the system and external components (P.83) and Connecting wires to terminals (P.81).

Wiring harness (Accessory ①) connector function guide

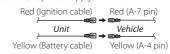
Pin	Col	ion		
A-4	Yellow	Battery		
A-5	Blue/White [2]	Blue/White [2] Power Cont		
A-6	Orange/White Dimmer			
A-7	Red	Ignition (ACC)		
A-8	Black	Earth (Ground) Connection		
B-1/B-2	Purple (+) / Purple/Black (–)		Rear Right	
B-3/B-4	Gray (+) / Gray/Black (-) White (+) / White/Black (-) Green (+) / Green/Black (-)		Front Right	
B-5/B-6			Front Left	
B-7/B-8			Rear Left	

^{*}Speaker Impedance: 4-8 Ω

▲WARNING for Connecting the ISO Connector

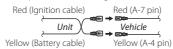
The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit. The default connection for the wiring harness is described in (1) below. If the ISO connector pins are set as described in (2), make the connection as illustrated. Please be sure to reconnect the cable as shown (2) below to install this unit to the Volkswagen vehicles etc. (1): Default setting

The red (A-7 pin) of the vehicle's ISO connector is linked with the ignition, and the yellow (A-4 pin) is connected to the constant power supply.



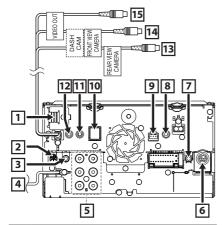
2)

The red (A-7 pin) of the vehicle's ISO connector is connected to the constant power supply, and the yellow (A-4 pin) is linked to the ignition.



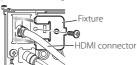
^{[1] [2]:} Blue/White wire is provided two wires, [1] and [2].
Blue/White wire total output ([1] + [2]):
12 V == 350 mA

Connecting the system and external components



HDMI input
Use HDMI cable KCA-HD100 (optional accessory).

When you connect the cable to HDMI terminal, remove the fixture. After connecting the cable, put the fixture again.



DAB antenna CX-DAB1 (Optional accessory)

Use of a CX-DAB1(optional accessory) as a DAB antenna is recommended.

When using a commercially available DAB antenna, the diameter of the SMB connector must be Φ 6.5 mm or less.



AV Audio output (ø3.5 mini jack)

FM/AM antenna input

→ → →

Mhen connecting to an external amplifier, connect its ground wire to the car's chassis to avoid damaging the unit.



External I/F

Maximum power supply current: 12 V === 500 mA

7 TV tuner remote output

This jack accepts either AV-IN (CA-C3AV;
Optional Accessory) or Side (Left or Right) View
Camera Input.
For more information, see **To set up the**

camera assignment settings (P.55).

Dashboard camera interface

Connect a Dashboard Camera DRV-N520 (optional accessory). (P.85)

Accessory ⑦: GPS Antenna
Use the supplied GPS antenna. Using the GPS antenna other than the supplied one may cause a drop in positioning accuracy.



Accessory 4: Bluetooth Microphone



Connect to vehicle's steering remote harness.
Contact your KENWOOD dealer for details.

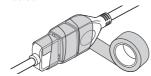
Rear view camera input (Yellow)

Front view camera/Dashboard camera input (Yellow). See **To set up the camera** assignment settings (P.55).

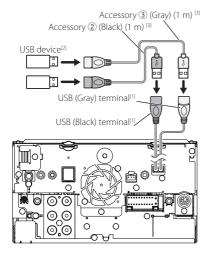
15 Visual Output (Yellow)

Securing the USB extension cable

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

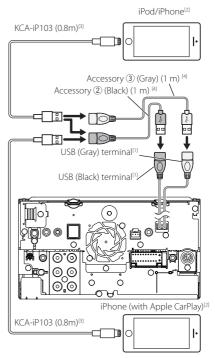


Connecting a USB device



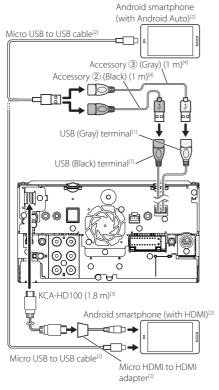
- USB maximum power supply current : DC 5 V === 1.5 A
- [2] Sold separately
- [3] See **Securing the USB extension cable** (**P.84**).

■ Connecting an iPod/iPhone



- ^[1] USB maximum power supply current: DC 5 V == 1.5 A
- [2] Sold separately
- [3] Optional accessory
- [4] See Securing the USB extension cable (P.84).

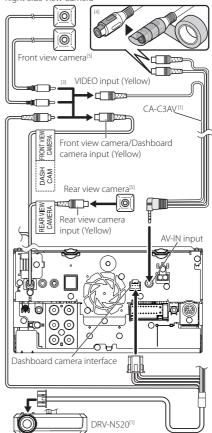
Connecting an Android smartphone



- ^[1] USB maximum power supply current : DC 5 V == 1.5 A
- [2] Sold separately
- [3] Optional accessory
- [4] See **Securing the USB extension cable** (P.84).

Connecting the camera

Left Side View Camera and Right Side View Camera^[2]



- [1] Optional accessory
- [2] Sold separately
- [3] Up to 2 cameras of Dashboard camera, Front view camera, Left Side View Camera and Right Side View Camera can be connected. For details, see *To set up the camera assignment settings (P.55)*.
- [4] Insulate audio input terminals of CA-C3AV (Optional Accessory) when connecting to the Camera.
- [5] CMOS-3xx series (Optional Accessory) or commercially available camera.

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.66).

The dual zone function is enabled.

- Set the dual zone function to off. See Zone Control (P 70)
- Cannot select the output destination of the subsource in the dual zone.
- Cannot adjust the volume of the rear speakers.

The dual zone function is disabled.

- > Set the dual zone function to on. See **Zone Control** (P.70).
- · Cannot set up the equalizer.
- · Cannot set up the crossover network.

The dual zone function is enabled.

 Set the dual zone function to off. See Zone Control (P.70).

About audio operations

Radio reception is poor.

The car antenna is not extended.

> Pull out the antenna all the way.

The antenna control wire is not connected.

➤ Connect the wire correctly. See **Connecting the** system and external components (P.83).

Cannot select a folder.

The random play function is enabled.

➤ Turn off the random function.

Others

The Touch Sensor Tone doesn't sound.

The preout jack is being used.

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

Error Messages

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

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

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

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

Hot Error

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

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

Error 07-67

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

 Turn the power off and on again. If the "Error 07–67" message does not disappear, contact your nearest KENWOOD dealer.

No Device (USB device)

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

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

Disconnected (iPod, Bluetooth audio player)

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

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

No Media file

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

➤ See **Playable Media and Files (P.88)** and try another USB device.

USB device over current status detected.

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

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

Apple CarPlay

The speed sensor must be connected to use Apple CarPlay wirelessly. Please verify the proper connections or plug in by USB to use Apple CarPlay.

The speed pulse is not detected when the Apple CarPlay is started by connecting wirelessly or when the iPhone compatible with wireless Apple CarPlay is registered in **Apple CarPlay Device List**.

➤ Check the connection of the speed pulse or plug in over USB to use Apple CarPlay.

The GPS antenna must be connected to use Apple CarPlay wirelessly. Please verify the proper connections or plug in by USB to use Apple CarPlay.

The GPS antenna is not connected when the Apple CarPlay is started by connecting wirelessly or when the iPhone compatible with wireless Apple CarPlay is registered in **Apple CarPlay Device List**.

➤ Check the connection of the GPS antenna or plug in over USB to use Apple CarPlay.

The speed sensor and the GPS antenna must be connected to use Apple CarPlay wirelessly. Please verify the proper connections or plug in by USB to use Apple CarPlay.

The speed pulse is not detected and the GPS antenna is not connected when the Apple CarPlay is started by connecting wirelessly or when the iPhone compatible with wireless Apple CarPlay is registered in **Apple**

CarPlay Device List

➤ Check the connection of the speed pulse and the GPS antenna or plug in over USB to use Apple CarPlay.

Appendix

Playable Media and Files

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

About files

The following audio and video files are supported.

■ Playable Audio files

	Format	Bit rate	Sampling frequency	Bit count
AAC-LC (.m4a)	MPEG-2/MPEG-4 AAC LC HE-AAC(V1,V2)	8 – 320kbps, VBR	16 – 48 kHz	16 bit
MP3 (.mp3)	MPEG-1/MPEG-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 bit/24 bit
FLAC (.flac)	flac	_	16 – 192 kHz	16 bit/24 bit
Vorbis (.ogg)	vorbis	-	16 – 48 kHz	16 bit

- · WMA and AAC files with DRM cannot be played.
- Although the audio files complies with the standards listed above, they may not be played 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	MP3, AAC, WMA, Vorbis, FLAC		

[•] This unit can only play back files which are smaller than 4 GB.

■ Limitation on structure of file and 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)	Unlimited

- You can enter a folder name and file name with 255 or fewer single-byte characters.
- Files in the folder whose folder name begins with a dot (.) cannot be played.

Specifications

■ Monitor section

Picture Size

: 6.95 inches (diagonal) wide

: 156.6 mm (W) × 81.6 mm (H) 6-3/16 × 3-3/16 inch

Display System

:TN LCD panel

Drive System

:TFT active matrix system

Number of Pixels

: 1.152.000 (800H x 480V x RGB)

Effective Pixels

: 99.99 %

Pixel Arrangement

: RGB striped arrangement

Back Lighting

· I ED

■ USB interface section

USB Standard

: USB 2.0 High Speed

File System

: FAT16, FAT32, exFAT, NTFS

Maximum Power Supply Current

: DC 5 V 1.5 A × 2

D/A Converter

: 24 bit/32 bit

Audio Decoder

: MP3 / WMA / AAC / WAV / FLAC / Vorbis

Video Decoder

: MPEG-1 / MPEG-2 / MPEG-4 / WMV / H.264 / MKV

Frequency Response

• 192 kHz: 20 – 88,000 Hz

• 96 kHz: 20 - 44,000 Hz

48 kHz: 20 – 22,000 Hz

44.1 kHz: 20 – 20,000 Hz

Total Harmonic Distortion

: 0.0001 % (1 kHz)

S/N Ratio (dB)

: 98.5 dB

Dynamic Range

: 89 dB

■ Wireless Mirroring section

Mode

: Sink

Copyright protection

: HDCP2.2

Touch Control

: UIBC

■ Wi-Fi section

IEEE Standard

: 802.11 a/b/g/n/ac

Frequency Range

: Dual Band (2.4GHz/5GHz)

Channels

: Auto (1-11ch)/Auto (149,153,157,161ch)

Transfer rates (MAX)

: 11a: 54 Mbps / 11b: 11 Mbps / 11g: 54 Mbps / 11n: 300 Mbps / 11ac: 867 Mbps

Output Power

2.4 GHz/SISO

: 11b: 14 dBm \pm 2 dB / 11g: 13 dBm \pm 2 dB / 11n (20 MHz): 12 dBm \pm 2 dB

5 GHz/SISO

: 11a: 9 dBm ± 2 dB /

11n (20 MHz)/11ac (20 MHz): 9 dBm ± 2 dB / 11n (40 MHz)/11ac (40 MHz): 8 dBm ± 2 dB / 11ac (80 MHz): 8 dBm ± 2 dB

5 GHz/MIMO

: 11n (20 MHz)/11ac (20 MHz): 11 dBm ± 2 dB / 11n (40 MHz)/11ac (40 MHz): 11 dBm ± 2 dB / 11ac (80 MHz): 11 dBm ± 2 dB

■ Bluetooth section

Technology

: Bluetooth Ver.5.0

Frequency

: 2.402 - 2.480 GHz

Output Power

: +4dBm (MAX), Power Class2

Maximum Communication range

: Line of sight approx. 10m (32.8 ft)

Audio Codec

· SBC/AAC

Profile (Multi Profile support)

- · HFP (V1.7) (Hands Free Profile)
- · SPP (Serial Port Profile)
- · A2DP (Advanced Audio Distribution Profile)
- · AVRCP (V1.6) (Audio/Video Remote Control Profile)
- · PBAP (Phonebook Access Profile)

■ HDMI section

HDMI

:Tvpe-A

Input Resolution

- VGA (640x480p @59.94Hz/60Hz)
- 480p (720x480p @59,94Hz/60Hz)
- · 720p (1280x720p @59.94Hz/60Hz)

Input Audio Type

: 32K/44.1K/48K/88.2K/96K/176.2K/192K Hz 16 bit/20 bit/24 bit Linerar PCM

Appendix

■ DAB section

Frequency Range

BAND III: 174.928 - 239.200 (MHz)

Sensitivity

:-100 dBm

S/N Ratio (dB)

: 90 dB

■ Digital Antenna Connector section

Connector type

: SMB

Output Voltage (11 - 16V)

: 14.4 V

Maximum Current

: < 100 mA

■ 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

2-way X'Over

High pass filter

Frequency: Through, 30/40/50/60/70/80/90/100/ 120/150/180/220/250 Hz

Slope: -6/-12/-18/-24 dB/Oct.

Low pass filter

Frequency: 30/40/50/60/70/80/90/100/120/150/ 180/220/250 Hz. Through

Slope: -6/-12/-18/-24 dB/Oct.

3-way X'Over

High pass filter

Frequency: 250/300/1k/1.6k/2.5k/4k/5k/6.3k/8k/ 10k/12.5k Hz

Slope: -12/-18/-24 dB/Oct.

310pe. -12/-16/-24 db/Oct

Band pass filter

Frequency: Through, 50/60/70/80/90/100/120/150/

180/220/250/300 Hz

250/300/1k/1.6k/2.5k/4k/5k/6.3k/8k Hz,

Through

Slope: -12/-18/-24 dB/Oct.

Low pass filter

Frequency: 30/40/50/60/70/80/90/100/120/150 Hz,

Through

Slope: -12/-18/-24 dB/Oct.

Position

Front / Rear / Subwoofer Delay

: 0 - 6.1 m (0.01 m Step)

Gain

: -8 - 0 dB

Subwoofer level

:-50 - +10 dB

■ FM tuner section

Frequency Range (step)

: 87.5 MHz - 108.0 MHz (50 kHz)

Usable Sensitivity (S/N:30 dB)

: 9.3 dBf (0.8 μV/75 Ω)

Quieting Sensitivity (S/N: 46 dB)

: 15.2 dBf (1.6 μ V/75 Ω)

Frequency Response

: 30 Hz - 15 kHz

S/N Ratio (dB)

: 65 dB (MONO)

Selectivity (± 400 kHz)

: Over 80 dB

Stereo Separation

: 45 dB (1 kHz)

■ AM tuner section

Frequency Range (step)

LW: 153 – 279 kHz (9 kHz)

MW: 531 – 1611 kHz (9 kHz)

Usable Sensitivity

MW: 25μV I W: 45μV

■ Video section

Color System of External Video Input

: NTSC/PAL

External Video Input Level (mini jack)

: 1 Vp-p/75 Ω

External Audio Max Input Level (mini jack)

: 2 V/25 kΩ

Video Input Level (RCA jacks)

: 1 Vp-p/75 Ω

Video Output Level (RCA iacks)

: 1 Vp-p/75 Ω

Audio Output Level (mini jack)

: 0.9 V/10 kΩ

Audio section

Maximum Power (Front & Rear)

: 50 W × 4

Typical Power Output (Front & Rear)

Full Bandwidth Power (at less than 1% THD)

· 22 W × 4

Output frequency band

: 20 - 88,000 Hz

Preout Level (V)

: 5 V/10 $k\Omega$

Preout Impedance

: ≤ 300 Ω

Speaker Impedance

:4-8Ω

■ General

Operating Voltage

: 12 V DC car battery

Installation Dimensions (W \times H \times D)

: 178 × 100 × 155 mm

With Sleeve

: 182 × 112 × 153 mm

Weight

: 1.7 kg

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 are subject to change without prior notice.

About this Unit

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libvorbis

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Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)

Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment and batteries

Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.

Contact your local authority for details in locating a recycle facility nearest to you.

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.



■ מידע בדבר השלכה לאשפה של ציוד חשמלי ואלקטרוני ישן וכן סוללות (רלוונטי למדינות

שמשתמשות במערכת איסוף אשפה מופרדת). לא ניתן להשליך מוצרים וסוללות עם הסימון (פח אשפה עם X עליו) כאשפה ביתית רגילה.

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Declaration of Conformity with regard to the RE Directive 2014/53/EU

Declaration of Conformity with regard to the RoHS Directive 2011/65/EU

Manufacturer:

JVC KENWOOD Corporation 3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, JAPAN

EU Representative:

JVCKENWOOD Europe B.V. Amsterdamseweg 37, 1422 AC UITHOORN, THE NETHERLANDS

English

Hereby, JVC KENWOOD declares that the radio equipment DMX8019DABS is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

Français

Par la présente, JVC KENWOOD déclare que l'équipement radio DMX8019DABS est conforme à la directive 2014/53/UE. L'intégralité de la déclaration de conformité UE est disponible à l'adresse Internet suivante:

Deutsch

Hiermit erklärt JVC KENWOOD, dass das Funkgerät DMX8019DABS der Richtlinie 2014/53/EU entspricht. Der volle Text der EU-Konformitätserklärung steht unter der folgenden Internetadresse zur Verfügung:

Nederlands

Hierbij verklaart JVC KENWOOD dat de radioapparatuur DMX8019DABS in overeenstemming is met Richtlijn 2014/53/EU. De volledige tekst van de EU-verklaring van overeenstemming is te vinden op het volgende internetadres:

Italiano

Con la presente, JVC KENWOOD dichiara che l'apparecchio radio DMX8019DABS è conforme alla Direttiva 2014/53/UE. Il testo integrale della dichiarazione di conformità UE è disponibile al seguente indirizzo internet:

Español

Por la presente, JVC KENWOOD declara que el equipo de radio DMX8019DA85 cumple la Directiva 2014/53/EU. El texto completo de la declaración de conformidad con la UE está disponible en la siguiente dirección de internet:

Português

Deste modo, a JVC KENWOOD declara que o equipamento de rádio DMX8019DABS está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade da UE está disponível no sequinte endereço de internet:

Polska

Niniejszym, JVC KENWOOD deklaruje, że sprzęt radiowy DMX8019DABS jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności EU jest dostępny pod adresem:

Český

Společnost JVC KENWOOD tímto prohlašuje, že rádiové zařízení DMX8019DABS splňuje podmínky směrnice 2014/53/EU. Plný text EU prohlášení o shodě je dostupný na následující internetové adrese:

Magyar

JVC KENWOOD ezennel kijelenti, hogy a DMX8019DABS rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU konformitási nyilatkozat teljes szövege az alábbi weboldalon érhető el:

Hrvatsk

JVC KENWOOD ovim izjavljuje da je radio oprema DMX8019DABS u skladu s Direktivom 2014/53/EU. Cjeloviti tekst deklaracije Europske unije o usklađenosti dostupan je na sljedećoj internet adresi:

Svenska

Härmed försäkrar JVC KENWOOD att radioutrustningen DMX8019DABS är i enlighet med direktiv 2014/53 / EU. Den fullständiga texten av EU-försäkran om överensstämmelse finns på följande Internetadress :

Suomi

JVC KENWOOD julistaa täten, että radiolaite DMX8019DABS on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutus löytyy kokonaisuudessaan seuraavasta internet-osoitteesta:

Slovensko

S tem JVC KENWOOD izjavlja, da je radijska oprema DMX8019DABS v skladu z Direktivo 2014/53/EU. Celotno besedilo direktive EU o skladnosti je dostopno na tem spletnem naslovu:

Slovensky

Spoločnosť JVC KENWOOD týmto vyhlasuje, že rádiové zariadenie DMX8019DABS vyhovuje smernici 2014/53/EÚ. Celý text EÚ vyhlásenia o zhode náidete na nasledovnej internetovej adrese:

Dansk

Herved erklærer JVC KENWOOD, at radioudstyret DMX8019DABS er i overensstemmelse med Direktiv 2014/53/EU. EUoverensstemmelseserklæringens fulde ordlyd er tilgængelig på følgende internetadresse:

Norsk

JVC KENWOOD erklærer herved at radioutstyret DMX8019DABS er i samsvar med Direktiv 2014/53/EU. Den fullstendige teksten til EU-konformitetserklæringen er tilgjengelig på følgende internettaddresse:

Ελληνικά

Με το παρόν, η JVC KENWOOD δηλώνει ότι ο ραδιοεξοπλισμός DMX8019DABS συμμορφώνεται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ είναι διαθέσιμο στην ακόλουθη διεύθυνση στο διαδίκτυο:

Eesti

Käesolevaga JVC KENWOOD kinnitab, et DMX8019DABS raadiovarustus on vastavuses direktiiviga 2014/53/EL. ELi vastavusdeklaratsiooni terviktekst on kättesaadav järgmisel internetiaadressil:

Latviešu

JVC KENWOOD ar šo deklarē, ka radio aparatūra DMX8019DABS atbilst direktīvas 2014/53/ES prasībām. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā tīmekla adresē:

Lietuviškai

Šiuo JVC KENWOOD pažymi, kad radijo įranga DMX8019DABS atitinka 2014/53/EB direktyvos reikalavimus. Visą EB direktyvos atitikties deklaracijos tekstą galite rasti šiuo internetiniu adresu:

Malti

B'dan, JVC KENWOOD jiddikjara li t-tagħmir tar-radju DMX8019DABS huwa konformi mad-Direttiva 2014/53/UE. It-test kollu taddikjarazzjoni ta' konformità huwa disponibbli fl-indirizz intranet li ġej:

Українська

Таким чином, компанія JVC KENWOOD заявляє, що радіообладнання DMX8019DABS відповідає Директиві 2014/53/ EU. Повний текст декларації про відповідність ЄС можна знайти в Інтернеті за такою адресою:

Türkçe

Burada, JVC KENWOOD DMX8019DABS radyo ekipmanının 2014/53/ AB Direktifine uygun olduğunu bildirir. AB uyumluluk deklarasyonunun tam metni aşağıdaki internet adresinde mevcuttur.

Русский

ЛУС КЕNWOOD настоящим заявляет, что радиооборудование DMX8019DA8S соответствует Директиве 2014/53/EU. Полный текст декларации соответствия ЕС доступен по следующему адресу в сети Интеонет:

Limba română

Prin prezenta, JVC KENWOOD declară că echipamentul radio DMX8019DABS este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației de conformitate UE este disponibil la urmatoarea adresă de internet:

Български език

С настоящото JVC KENWOOD декларира, че радиооборудването на DMX8019DABS е в съответствие с Директива 2014/53/EC. Пълният текст на EC декларацията за съответствие е достъпен на следния интернет адрес:

URL: http://www.kenwood.com/cs/ce/eudoc/

