KENWOOD

MONITOR WITH DVD RECEIVER

DDX9017DABS
DDX9017S
DDX9017SM
DDX917WS
DDX917WSM

MONITOR WITH RECEIVER

DMX7017BTS

INSTRUCTION MANUAL

JVC KENWOOD Corporation

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

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B5A-1732-00 b (M/M2/X)

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Before Use

Precautions

⚠ WARNINGS

To prevent injury or fire, take the following precautions:

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

Precautions on using this unit

- When you purchase optional accessories, check with your KENWOOD dealer to make sure that they work with your model and in your area.
- You can select language to display menus, audio file tags, etc. See ***User Interface Setup (P.58)***.
- The Radio Data System or Radio Broadcast Data System feature won't work where the service is not supported by any broadcasting station.
- The unit may not function properly if the connectors between the unit and front panel are dirty. Detach the front panel and clean the connector with a cotton swab gently, being careful not to damage the connector.

Protecting the monitor

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

Cleaning the unit

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

NOTE

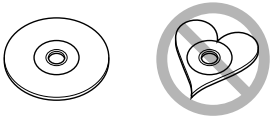
- Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erase screened print.

Lens fogging

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

Precautions on handling discs

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



- 8-cm (3 inch) discs cannot be used.
- Discs with coloring on the recording surface or discs that are dirty cannot be used.

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

Acquiring GPS signal

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

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

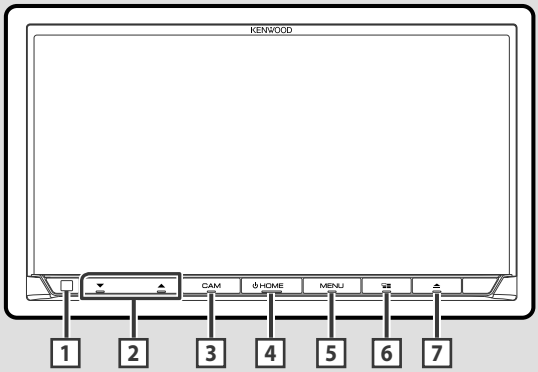
How to read this manual

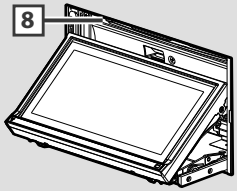
- The screens and panels shown in this manual are examples used to provide clear explanations of the operations.
  For this reason, they may be different from the actual screens or panels used, or some display patterns may be different.
- In this manual, each model name is abbreviated as follows.
  - DDX9017DABS/ DDX9017S/ DDX9017SM/ DDX917WS/ DDX917WSM: **DDX9**
  - DMX7017BTS: **DMX7**
    If above icons are showed, read the article applicable to the unit you use.
- **Indication language**: English indications are used for the purpose of explanation. You can select the indication language from the **SETUP** menu. See ***User Interface Setup (P.58)***.

Basic Operations

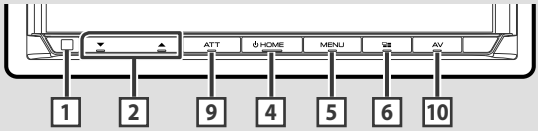
Functions of the Buttons on the Front Panel

DDX9017DABS/ DDX9017S/ DDX9017SM





DMX7017BTS



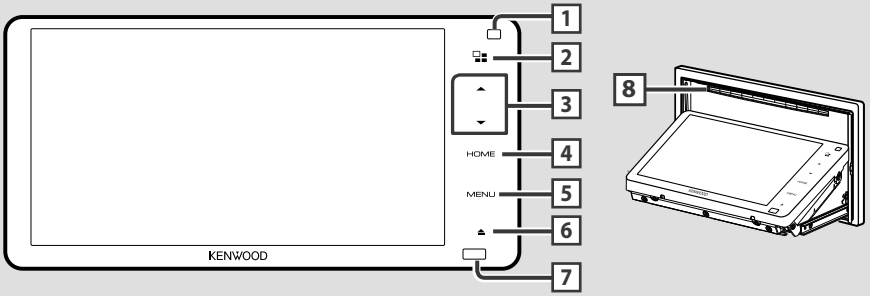
NOTE

- The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.
- In this manual, each model name is abbreviated as follows.
  – DDX9017DABS/ DDX9017S/ DDX9017SM: DDX9
  – DMX7017BTS: DMX7
  If above icon is showed, read the article applicable to the unit you use.

Number	Name	Motion
1	Remote Sensor	• Receives the remote control signal.
2	▼, ▲ (Volume)	• Adjusts volume. The volume will go up until 15 when you keep pressing ▲.
3	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.
4	HOME	• Displays the HOME screen ***(P.12)***. • Pressing for 1 second turns the power off. * • When the power off, turns the power on. * The function of the button when held varies depending on the "Manual Power OFF" setting. ***(P.60)***
5	MENU	• Displays the popup menu screen. • Pressing for 1 second switches attenuation of the volume on/off. (DDX9 only)

Number	Name	Motion
6	⇆	• Switch the APP (CarPlay/ Android Auto/ Air Mirroring) source. • Pressing for 1 second displays the Voice Recognition screen ***(P.50)***.
7	⏏	• Displays the Angle Adjust screen. – **DISC EJECT**: Ejects the disc. • When the panel is opened, pressing closes the panel. • To forcibly eject the disc, press it for 2 seconds and touch **Yes** after the message is displayed.
8	Disc insert slot	• A slot to insert a disc media.
9	ATT	• Switches attenuation of the volume on/off.
10	AV	• Displays the control screen of current source.

DDX917WS/ DDX917WSM



NOTE

- The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.
- In this manual, each model name is abbreviated as follows.
  – DDX917WS/ DDX917WSM: DDX9
  If above icon is showed, read the article applicable to the unit you use.

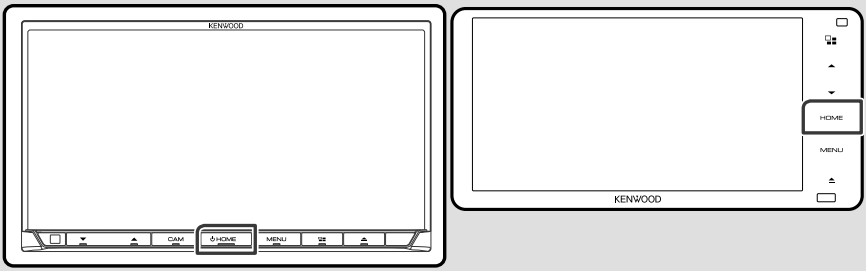
Number	Name	Motion
1	Gesture control sensor	• A sensor which detects motions of your hand. ***(P.16)***
2	⇆	• Switch the APP (CarPlay/ Android Auto/ Air Mirroring) source. • Pressing for 1 second displays the Voice Recognition screen ***(P.50)***.
3	▼, ▲ (Volume)	• Adjusts volume. The volume will go up until 15 when you keep pressing ▲.
4	HOME	• Displays the HOME screen ***(P.12)***. • Pressing for 1 second turns the AV off. • When the AV off turns the AV on.
5	MENU	• Displays the popup menu screen.

Number	Name	Motion
6	⏏	• Displays the Angle Adjust screen. – **DISC EJECT**: Ejects the disc. • When the panel is opened, pressing closes the panel. • To forcibly eject the disc, press it for 2 seconds and touch **Yes** after the message is displayed.
7	Remote Sensor	• Receives the remote control signal.
8	Disc insert slot	• A slot to insert a disc media.

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: (DDX9017DABS/ DDX9017S/ DDX9017SM/ DMX7017BTS only)**

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

NOTE

- If it is your first time turning the unit on after installation, it will be necessary to perform Initial setup ***(P.9)***.
- The function of the button when held varies depending on the "Manual Power OFF" setting. ***(P.60)***

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 ↩.

For detailed operation, see ***User Interface Setup (P.58)***.

■ **Clock**

Sets the synchronization of the clock and adjusts it.

For detailed operation, see ***Calendar/clock settings (P.11)***.

■ **Display**

Set the button illumination color.

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

① Touch **Display**.

② Touch **Key Color**.

③ Select the desired color.

④ Touch ↩.

⑤ Touch **Viewing Angle**.

⑥ Select a viewing angle

⑦ Touch ↩.

For detailed operation, see ***Display Setup (P.61)***.

■ **Camera**

Set the parameters for the camera.

① Touch **Camera**.

② Set each item and touch ↩.

For detailed operation, see ***Camera Setup (P.54)***.

■ **DEMO**

Set the demonstration mode. Default is "OFF" (Region 2/3)/ "ON" (Region 4).

① Touch **DEMO** and set ON or OFF.

2 **Touch Finish.**

NOTE

- These settings can be set from the SETUP menu. See ***Setting Up (P.57)***.

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 digit number of your choice.

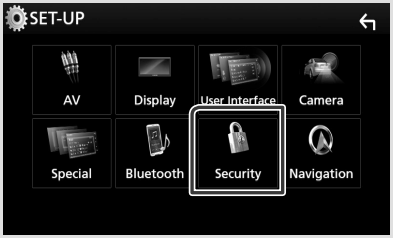
1 **Press the MENU button.**

➤ 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 four-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, then repeat step 5 and 6.**

To clear the security code:

1 **Touch Security Code Cancellation on the Security screen.**

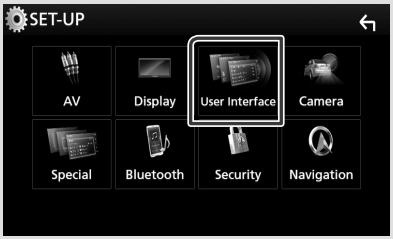
Calendar/clock settings

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

2 Touch **SETUP**.

➤ SETUP Menu screen appears.

3 Touch **User Interface**.



➤ User Interface screen appears.

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

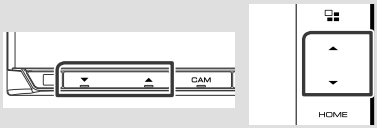
■ **Clock**
GPS-SYNC (Default): Synchronizes the clock time with the GPS.
Manual: Sets the clock manually.

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

■ **Clock Adjust**
If you select **Manual** for Clock, adjust the date and time manually. ***(P.59)***

Adjusting the volume

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

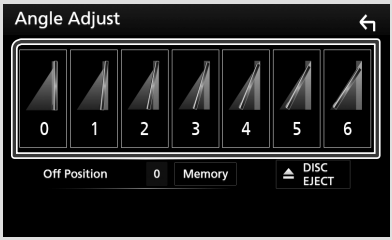


Monitor Angle Control (DDX9)

You can adjust the position of the monitor.

1 **Press the ⏏ button.**
➤ Angle Adjust screen appears.

2 **Select a below number that represents your desired angle setting.**
Default is "0".



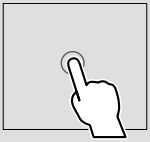
■ **Off Position**
You can store the current monitor angle as the angle during power off. Touch **Memory** when the desired angle is selected.

Touch screen operations

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

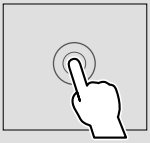
● **Touch**

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



● **Touch and hold**

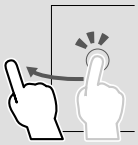
Touch the screen and keep your finger in place until the display changes or a message is displayed.



● **Flick**

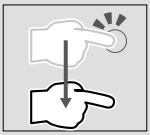
Slide your finger quickly to the left or right on the screen to change the page.

You can scroll the list screen by flicking the screen up/down.



● **Swipe**

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



HOME screen descriptions

Most functions can be performed from the HOME screen.

1	• Displays the control screen of current source.
2	• Widget – You can change the widget by touching 〈 / 〉 or flicking left or right on the widget area. – Touch the widget to display the detailed screen.
3	• Page indication for widgets
4	• Current source information
5	• Displays the source selection screen. ***(P.13)***
6	• Short-cut playback source icons ***(P.14)***
7	• Displays the Hands Free screen. ***(P.49)*** • When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

Display the HOME

1 **Press the HOME button.**

➤ HOME screen appears.

Source selection screen descriptions

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

1	• Changes the playback source. For playback sources, see ***P.13***.
2	• Changes the page. (Touch 〈 / 〉.) You can also change the page by flicking left or right on the screen.
3	• Returns to previous screen.
4	• Page indication
5	• Displays the SETUP Menu screen. ***(P.58)***

Select the playback source

1 Touch on the HOME screen.

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

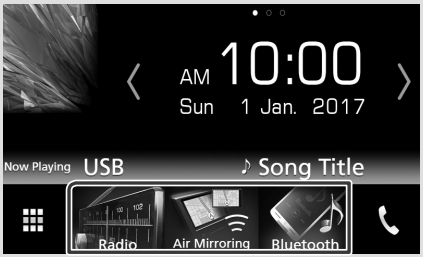
Radio	• Switches to the Radio broadcast. ***(P.35)***
Air Mirroring / Android Auto / Apple CarPlay	• Switches to the Android Auto/ Apple CarPlay/ Air Mirroring screen from the connected iPod touch/iPhone/Android device.*1 ***(P.29)***
Digital Radio	• Switches to the Digital Radio broadcast.*2 ***(P.38)***
Bluetooth	• Plays a Bluetooth audio player. ***(P.47)***
DISC	• Plays a disc. ***(P.17)***
iPod	• Plays an iPod/iPhone. ***(P.26)***
USB	• Plays files on a USB device. ***(P.23)***
Spotify	• Switches to the Spotify. ***(P.32)***
Pandora	• Switches to the Pandora. *3 ***(P.33)***
AV-IN	• Switches to an external component connected to the AV-IN input terminal. ***(P.55)***
NAV	• Displays the navigation screen when a navigation unit is connected. ***(P.56)***
Audio	• Displays the Audio screen. ***(P.64)***
STANDBY	• Puts the unit in standby. ***(P.14)***

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

*2 Only for DDX9017DABS.

*3 Only for DDX9017DABS/ DDX917WS/ DMX7017BTS Region 4.

To select the playback source on the HOME screen



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

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

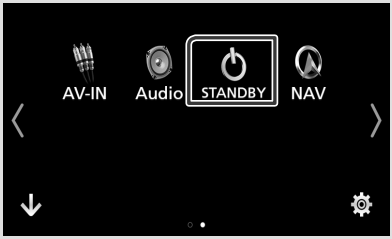
To select the playback source on the source control screen

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

Put the unit in standby

1 **Touch ⊞ on the HOME screen.**

2 **Touch STANDBY.**



Customize Short-cut buttons on HOME screen

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

1 **Touch ⊞ on the HOME screen.**

2 **Touch and hold the icon which you want to move to go into the customizing mode.**

3 **Drag it where you want to move.**

Source control screen descriptions

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

Indicators

Short-cut buttons

1 TEL RAPID CHG.

Connected Bluetooth device information.

- RAPID CHG. : Lights up when quick charging battery of the connected iPod/ iPhone/ Smartphone.

2 **All sources icon**

Displays all sources.

3 **Secondary screen**

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

4

Touch to display the Hands Free screen. ***(P.49)***

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

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.

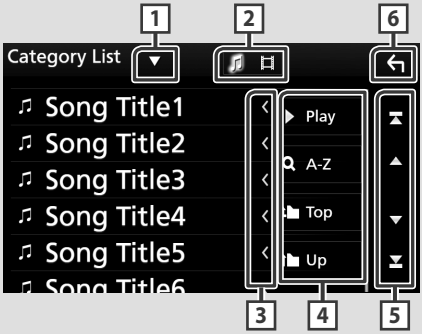
Screen Adjustment	• Displays the Screen Adjustment screen. ***(P.57)***
Display OFF	• Turns the display off. ***(P.15)***
Camera	• Displays the view camera. ***(P.54)***
SET-UP	• Displays the SETUP Menu screen. ***(P.58)***
Audio	• Displays the Audio Control Menu screen. ***(P.64)***
USB	• Displays the control screen of current source. Icon feature differs depending on the source.
5	• Close the popup menu.
6 7	• See ***HOME screen descriptions (P.12)***.

Turn off the screen

1 **Select Display OFF on the pop-up menu.**

List screen

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



1 ▼

Displays list type selection window.

2 ♫ 🎞

Displays music/movie file list.

3 ❮ **Text scroll**

Scrolls the displayed text.

4 Play **etc.**

Keys with various functions are displayed here.

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

5 ▲ / ▼ / ⏫ / ⏬ **Page scroll**

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

- ⏫ / ⏬ : Displays the top or bottom page.

6 ↩ **Return**

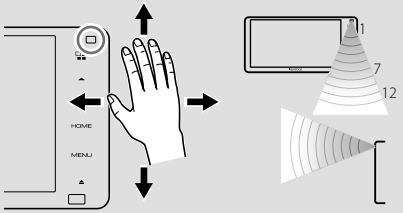
Returns to previous screen.

NOTE

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

Gesture Control (DDX917WS/ DDX917WSM)

You can also operate the unit by moving your hand in front of the gesture control sensor.



- To control by hand motion, select **ON** for **Gesture Control** on the "User Interface" screen beforehand. ***(P.58)***
- When shipped from the factory, you can operate by moving your hand as follows:
  - To the right: Displays the current source control screen.
  - To the left: Switches to Apple CarPlay/Android Auto screen. ***(P.29)***
  - Up: Displays the Home screen.
  - Down: When a call comes in, answers the call.
- You can assign the functions or sources/ screens to display on the "Gesture SETUP" screen. ***(P.59)***

Disc (DDX9)

Playing a disc

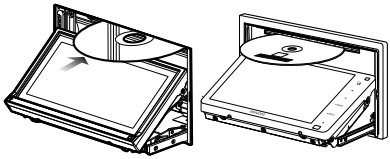
Insert a disc

1 **Press the ⏏ button.**

2 **Touch DISC EJECT.**

➤ The panel opens.

3 **Insert the disc into the slot.**



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

Eject a disc

1 **Press the ⏏ button.**

2 **Touch DISC EJECT.**
When removing a disc, pull it horizontally.

3 **Press the ⏏ button.**

DVD/ VCD Basic Operation

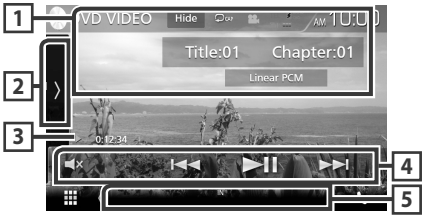
Most functions can be controlled from the source control screen and playback screen.

NOTE

- Set the remote control mode switch to DVD mode before starting operation for DVD and VCD, see ***Switch the operation mode (P.72)***.
- The screen shot below is for DVD. It may be different from the one for VCD.

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

Control screen



Video screen

1 Information display

Displays the following information.

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

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

2 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see ***Function panel (P.18)***.

3 Play mode indicator/ Playing time

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

4 Function bar

- I◄◄ ►►I : Searches the previous/next content.
  Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- ►❚❚ : Plays or pauses.
- : Touch to mute or not to mute.

5 Indicator Items

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

VCD

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

6 Searching area

Touch to search the next/previous content.

7 Key display area

Touch to display the control screen.

8 MENU CTRL (DVD only)

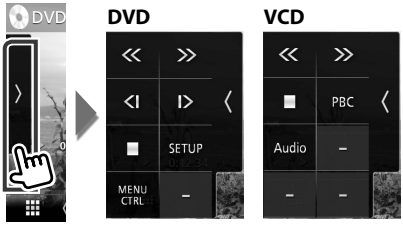
Touch to display the DVD-VIDEO disc menu control screen. See ***DVD Disc Menu Operation (P.21)***.

NOTE

- The control screen disappears when no operation is done for 5 seconds.
- If you use a remote control, you can jump directly to the desired image with entering the chapter number, scene number, play time, etc. ***(P.72)***.

Function panel

1 Touch on the left side of the screen.



The functions of each key are as follows.

■

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

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

or (DVD only)

Plays in slow motion forward or backward.

SETUP (DVD only)

Touch to display the DVD SETUP screen. See ***DVD Setup (P.22)***.

MENU CTRL (DVD only)

Touch to display the DVD-VIDEO disc menu control screen. See ***DVD Disc Menu Operation (P.21)***.

PBC (VCD only)

Turn Playback control (PBC) on or off.

Audio (VCD only)

Change the audio output channel.

Music CD/ Disc media Basic Operation

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

NOTE

- Set the remote controller mode switch to AUD mode before starting operation for Music CD and audio files, see ***Switch the operation mode (P.72)***.
- In this manual, "Music CD" will be referred to as the general CDs which include music tracks in. "Disc media" will be referred to as CD/DVD disc which includes audio or video files.
- The screen shot below is for disc media. It may be different from the one for CD.

Control screen

Content list panel

**1 / **

- : Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence;
  Track/ File repeat ( ), Folder repeat ( ) (Disc media only), Repeat all ( )
- : Randomly plays all tracks in current folder/disc. Each time you touch the key, random mode switches in the following sequence;
  Track random ( ) (Music CD only), Folder random ( ) (Disc media only), Random off ( )

2 Track information

Displays the information of the current track/ file.

Only a file name and a folder name are displayed if there is no tag information. (Disc media only)

3 Function bar

- (Disc media only) : Searches file. For details on search operation, see ***File search (P.20)***.
- : Searches the previous/next content.
  Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- : Plays or pauses.
- : Touch to mute or not to mute.

4 Function panel (Disc media only)

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

- : Searches previous/next folder.

5 Content list

Touch on the right side of the screen to display the Content list. Touch again to close the list.

6 Indicator Items

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

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

The jacket of the currently playing file is displayed.

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

- The meanings of each icon are as follows; ► (play), ►► (fast forward), ◄◄ (fast backward), ❚❚ (pause).

8 Content list panel

Displays the playing list. When you touch a track/ file name on the list, playback will start.

Video screen

9 Searching file area (Video file only)

Touch to search the next/previous file.

10 Key display area (Video file only)

Touch to display the control screen.

Search Operation (Disc media only)

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

NOTE

- If you use a remote control, you can jump directly to the desired track with entering the track number. For details, see ***Direct search mode (P.72)***.

File search

You can search a file according to hierarchy.

1 Touch .

➤ Folder List screen appears.

2 Touch the desired folder.

➤ When you touch a folder its contents are displayed.

3 Touch desired item from the content list.

➤ Playback starts.

NOTE

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

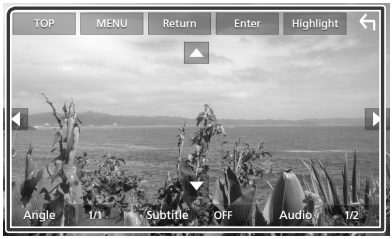
DVD Disc Menu Operation

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

1 Touch illustrated area during playback.

➤ Menu Control screen appears.

2 Perform desired operation as follows.



■ **Displays the top menu**
Touch **TOP**.*

■ **Displays the menu**
Touch **MENU**.*

■ **Displays the previous menu**
Touch **Return**.*

■ **Enters selected item**
Touch **Enter**.

■ **Enables direct operation**
Touch **Highlight** to enter the highlight control mode ***(P.21)***.

■ **Moves the cursor**
Touch ▲, ▼, ◄, ►.

■ **Switches the subtitle language**
Touch **Subtitle**. Each time you touch this key, language is switched.

■ **Switches the audio language**
Touch **Audio**. Each time you touch this key, language is switched.

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

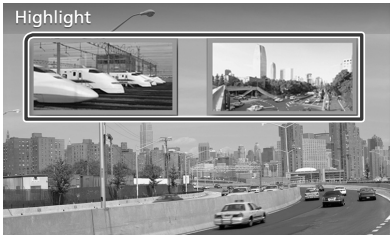
* These keys may not function depending on the disc.

Highlight control

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

1 Touch Highlight in the Menu Control screen.

2 Touch desired item on the screen.



NOTE

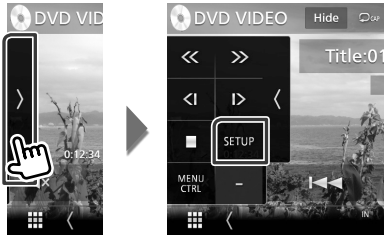
- The highlight control is cleared automatically if you do not operate for a constant time.

DVD Setup

You can set up the DVD playback functions.

1 Touch illustrated area during playback.

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



➤ DVD SETUP screen appears.

3 Set each item as follows.

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

See ***Language setup (P.22)***.

■ **Dynamic Range Control**

Sets the dynamic range.

Wide: The dynamic range is wide.

Normal: The dynamic range is normal.

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

■ **Screen Ratio**

Sets the screen display mode.

16:9 (Default): Displays wide pictures.

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

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

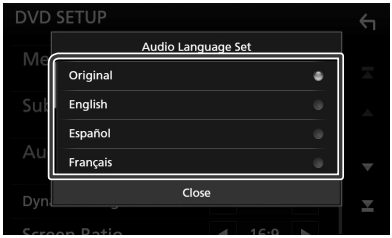
Language setup

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

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

➤ Language Set screen appears.

2 Select a language.



For language code, refer to ***DVD Language Codes (P.90)***.

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

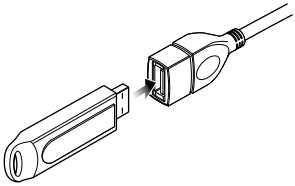
NOTE

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

USB

Connecting a USB device

1 **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 on this unit.

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

● About file system

The file system should be the one of the following.

• FAT16 • FAT32 • exFAT • NTFS

NOTE

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

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.72)***.

Control screen

Content list panel

1 /

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

2 Track information

Displays the information of the current file.

Only a file name and a folder name are displayed if there is no tag information.

3 Function bar

- 🔍 : Searches track/file. For details on search operation, see ***Search Operation (P.25)***.
- ⏮ ⏭ : Searches the previous/next track/file.
  Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- ⏯ : Plays or pauses.
- 🔇 : Touch to mute or not to mute.

4 Function panel

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

- 🗀− 🗀+ : Searches previous/next folder.
- **USB DEVICE CHANGE**
  Switches to another USB device when two USB devices are connected.

5 Content list

Touch on the right side of the screen to display the Content list. Touch again to close the list.

6 Indicator Items

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

7 Artwork/ Play mode indicator/ Playing time

The jacket of the currently playing file is displayed.

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

8 Content list panel

Displays the playing list. When you touch a track/file name on the list, playback will start.

Video screen

9 Searching file area (Video file only)

Touch to search the next/previous file.

10 Key display area (Video file only)

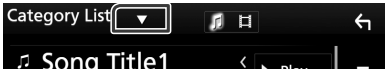
Touch to display the control screen.

Search Operation

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

1 **Touch 🔍.**

2 **Touch ▼.**



3 **Select the list type.**

NOTE

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

Category search

You can search a file by selecting category.

1 **Touch Category List.**

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

3 **Touch the desired category.**

➤ The list corresponding to your selection appears.

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

Link search

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

1 **Touch Link Search.**

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

➤ The list corresponding to your selection appears.

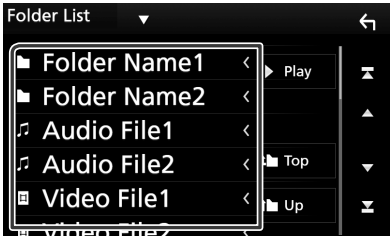
3 **Touch desired item from the content list.**

Folder search

You can search a file according to hierarchy.

1 **Touch Folder List.**

2 **Touch the desired folder.**



When you touch a folder its contents are displayed.

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

iPod/iPhone

Preparation

Connectable iPod/iPhone

The following models can be connected to this unit.

Made for

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

NOTE

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

Connect iPod/iPhone

Wired connection

Preparation

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

1 Connect the iPod/iPhone using KCA-iP103. *(P.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 the Bluetooth device and do the profile setting of the connection beforehand. See ***Register from the Bluetooth unit (P.44)*** and ***Connect the Bluetooth unit (P.46)***.
- Connect an iPhone on Bluetooth while CarPlay and an iPod/iPhone are not connected on USB.

iPod/iPhone Basic Operation

NOTE

- Set the remote controller mode switch to AUD mode before starting operation, see ***Switch the operation mode (P.72)***.

Control screen

Content list panel

1 /

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

2 Track information

- Displays the information of the current file.
- Touch to display the category list screen. See ***Category search (P.28)***.

3 Function bar

- : Searches track/file. For details on search operation, see ***Search Operation (P.28)***.
- ◄◄ ►►| : 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.
- : Touch to mute or not to mute.

4 Content list

Touch on the right side of the screen to display the Content list. Touch again to close the list.

5 Indicator Items

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

6 Artwork/ Play mode indicator/ Playing time

The jacket of the currently playing file is displayed.

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

7 Content list panel

Displays the playing list. When you touch a track/file name on the list, playback will start.

Search Operation

You can search music files by the following operations.

1 **Touch 🔍.**

2 **Touch ▼.**

3 **Select the list type.**

NOTE

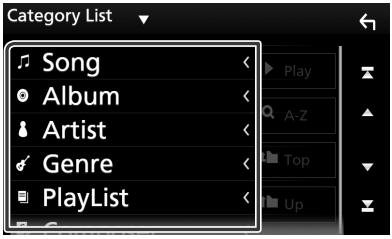
- For operations in the list screen, see ***List screen (P.16)***.

Category search

You can search a file by selecting category.

1 **Touch Category List.**

2 **Touch the desired category.**



➤ The list corresponding to your selection appears.

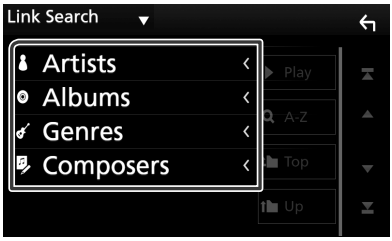
3 **Touch to select desired item in the list. Repeat this step until you find the desired file.**

Link search

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

1 **Touch Link Search.**

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



➤ The list corresponding to your selection appears.

3 **Touch desired item from the content list.**

APPS—Android Auto™/Apple CarPlay/Mirroring

Mirroring Operation (DDX9)

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

Preparation

- You can use "Mirroring" with Android devices compatible with Miracast.
- Miracast 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 Miracast UIBC, you cannot perform touch operation.

1 **Press the HOME button.**

2 **Touch** .

3 **Touch Air Mirroring.** ***(P.13)***

➤ The App screen is displayed.

4 **Operate your Android device to activate Miracast, then connect to this unit.**

5 **Select "Car Multimedia" as the network to use.**

➤ When the connection is established, then the same screen displayed on the Android device is displayed.

NOTE

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

Change the device name

1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch SETUP.**

➤ SETUP screen appears.

3 **Touch AV.**

➤ AV screen appears.

4 **Touch Wi-Fi SETUP.**

5 **Touch Device Name.**

➤ Change Device Name screen appears.

6 **Input the device name.**

7 **Touch Enter.**

Apple CarPlay Operation

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

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

Compatible iPhone devices

You can use CarPlay with the following iPhone models.

- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5

Preparation

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

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

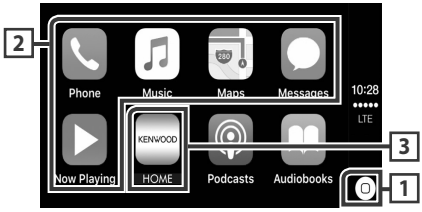
2 Unlock your iPhone.

Operation buttons and available Apps on the home screen of CarPlay

You can use the Apps of the connected iPhone.

The items displayed and the language used on the screen differ among the connected devices.

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



1

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

2 Application buttons

Starts the application.

3 HOME

Exits the CarPlay screen and displays the Home screen.

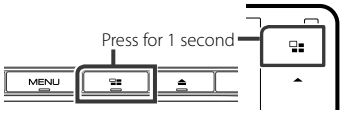
To exit the CarPlay screen

1 Press the HOME button.

Use Siri

You can activate Siri.

1 Press the button for 1 second.



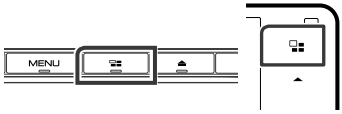
2 Talk to Siri.

To deactivate

1 Press the button.

Switch to the Apple CarPlay screen while listening to another source

1 Press the button.



NOTE

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

Android Auto™ Operation

Android Auto enables you to use functions of your Android device convenient for driving. You can easily access route guidance, make calls, listen to music, and access convenient functions on the Android device while driving.

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

Compatible Android devices

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

NOTE

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

Preparation

1 Connect an Android device via USB terminal. *(P.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 smartphone currently connected is disconnected.

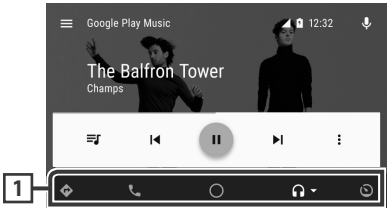
2 Unlock your Android device.

Operation buttons and available Apps on the Android Auto screen

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

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

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



1 Application/information buttons

Starts the application or displays information.

To exit the Android Auto screen

1 Press the HOME button.

Using voice control

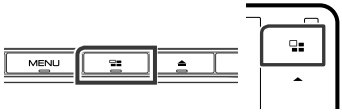
1 Press the button for 1 second.

To cancel

1 Press the button.

Switch to the Android Auto screen while listening to another source

1 Press the button.



NOTE

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

Spotify Operation

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

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

Preparation

- Install the latest version of the Spotify application "Spotify" on your iPhone or Android.
  iPhone: Search for "Spotify" in the Apple App Store to find and install the most current version.
  Android: Search for "Spotify" in Google play to find and install the most current version.
- iPhones are connected on either USB or Bluetooth.
- Android devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See ***Register from the Bluetooth unit (P.44)*** and ***Connect the Bluetooth unit (P.46)***.

1 Artwork/ Playing time

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

2 Function bar

- : Displays the Menu screen
- : New radio station that relates to the artist of the currently playing song is selected and playback starts.
- , : Skips the current song.
- , : Plays or pauses the content of the current station.
- : Saves currently playing song to My Music.
- : Touch to mute or not to mute.

3 Content information

Displays the information of the current content being played.

4 / / /

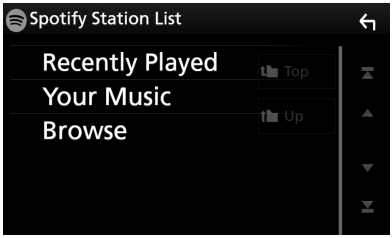
- : Thumbs down to the current contents and skip to the next contents.
- : Registers the current contents as favorite content.
- : Repeats the current song.
- : Randomly plays all song in current playlist.

Selecting a track

1 Touch .

➤ Menu screen appears.

2 Select the list type, then select a desired item.



■ **Selects the category and station**

Touch the category and station name in the list.

■ **Top**

Returns to the first hierarchy of the list.

■ **Up**

Returns to the previous list.

About Spotify®

iPhone or iPod touch

- Install the latest version of the Spotify application on your iPhone or iPod touch. (Search for "Spotify" in the Apple App Store to find and install the most recent version.)

Android™

- Visit Google play and search for "Spotify" to install.

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.

About Spotify®

- Some functions of Spotify cannot be operated from this unit.
- For issues using the application, contact Spotify at www.spotify.com.
- Establish an Internet connection.

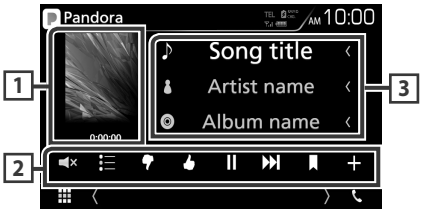
Pandora® Operation (Region 4)

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

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

Preparation

- Install the latest version of the Pandora® application on your iPhone, Android or BlackBerry.
  iPhone: Search for "Pandora" in the Apple App Store to find and install the most current version.
  Android: Visit the Google play and search for Pandora to install.
  BlackBerry: Visit www.pandora.com from the built in browser to download the Pandora application.
- iPhones are connected on either USB or Bluetooth.
- Android or BlackBerry devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See ***Register from the Bluetooth unit (P.44)*** and ***Connect the Bluetooth unit (P.46)***.



1 Artwork/ Playing time

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

2 Function bar

- : Searches for a station. For details on searching, see ***Station list screen (P.33)***.
- (Thumbs down) : Thumbs down to the current contents and skip to the next contents.
- (Thumbs up) : Registers the current contents as favorite content.
- ► , ❚❚ : Plays or pauses the content of the current station.
- ►►| : Skips the current song.
  (Note this function is disabled when the Pandora skip limitation is exceeded.)
- (Bookmark Song) : Bookmarks a song in the current contents.
- : Creates a new station. See ***Creates a new station (P.34)***.
- : Touch to mute or not to mute.

3 Content information

Displays the information of the current content being played.

Station list screen

You can perform the following functions from this screen.

1 Touch .

➤ Station List screen appears.

■ **Selects the station**
Touch the station name in the list.

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

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

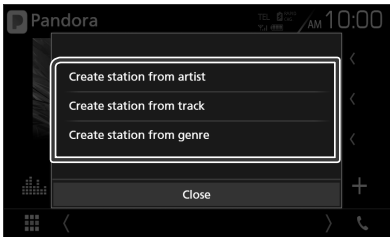
NOTE

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

Creates a new station

1 Touch **+**.

2 Touch desired item.



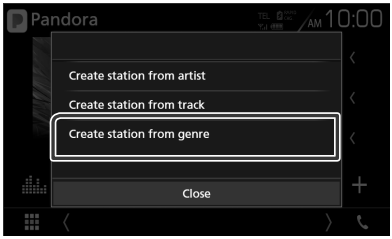
■ **Create station from artist**
Creates a new station based on an artist being played.

■ **Create station from track**
Creates a new station based on a song being played.

■ **Create station from genre**
Displays the genre list screen.

Genre list screen

1 Touch **Create station from genre**.



2 The selected genre is created as a new station.

About Pandora®

iPhone or iPod touch

- Install the latest version of the Pandora application on your iPhone or iPod touch. (Search for "Pandora" in the Apple App Store to find and install the most recent version.)

Android™

- Visit the Google play and search for Pandora to install.

BlackBerry®

- Visit www.pandora.com from the built in browser to download the Pandora application.
- Bluetooth must be built in and the following profiles must be supported.
  - SPP (Serial Port Profile)
  - A2DP (Advanced Audio Distribution Profile)

NOTE

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

Radio

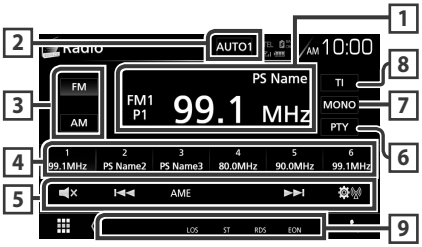
Radio Basic Operation

Most functions can be controlled from the source control screen.

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

NOTE

- Set the remote control mode switch to AUD mode before starting operation, see ***Switch the operation mode (P.72)***.



1 Information display

Displays the information of the current station: Frequency, PS name

P#: Preset number

2 AUTO1 / AUTO2 / MANUAL

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

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

3 FM AM

Switches the band.

4 Preset key

Recalls the memorized station.

When touched for 2 seconds, stores the current receiving station in memory.

5 Function bar

- ◄◄ ►►: Tunes in a station. The method of frequency switching can be changed (see 2 in table).
- **AME**: Presets stations automatically. For details, see ***Auto memory (P.36)***.
- : Displays the TUNER SETUP screen. For details, see ***Tuner Setup (P.37)***.
- : Touch to mute or not to mute.

6 PTY (FM only)

Searches a program by setting program type. For details, see ***Search by program type (P.36)***.

7 MONO (FM only)

Select the Monaural reception.

8 TI (FM only)

Sets the traffic information mode on. For details, see ***Traffic Information (P.37)***.

9 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

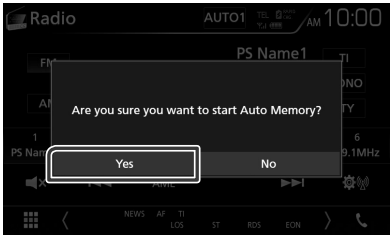
Auto memory

You can store stations with good reception in memory automatically.

1 **Touch desired band key.**

2 **Touch AME.**

3 **Touch Yes.**



➤ Auto memory starts.

Manual memory

You can store the current receiving station in memory.

1 **Touch desired band key.**

2 **Select a station you wish to store in memory.**

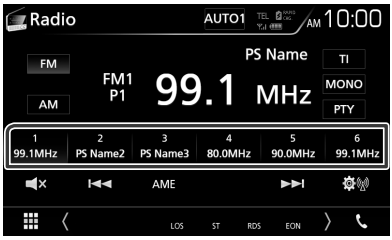
3 **Touch # (#:1-6) in which you want to store the station for 2 seconds until a beep sounds.**

Selecting Operation

Preset select

You can list and select memorized station.

1 **Select a station from the list.**



Search by program type (FM only)

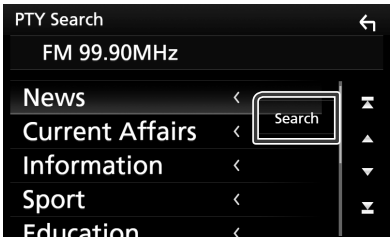
You can tune to a station with a specific program type when listening to FM.

1 **Touch PTY.**

➤ PTY Search screen appears.

2 **Select a program type from the list.**

3 **Touch Search.**

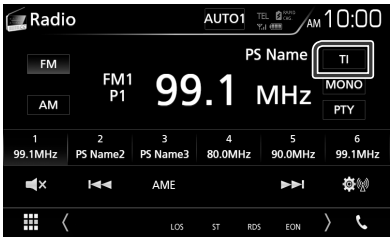


You can search a station of the selected program type.

Traffic Information (FM only)

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

1 **Touch TI.**



➤ Traffic information mode is set.

When the traffic bulletin starts

The Traffic Information screen appears automatically.

NOTE

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

Tuner Setup

You can set tuner related parameters.

1 **Touch .**

➤ Radio SETUP screen appears.

2 **Set each item 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 "OFF".

■ **Regional**
Sets whether to switch to the station only in the specific region using the "AF" control. Default is "OFF".

■ **LO.S (FM only)**
Turns the Local Seek function on or off.

■ **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.

■ **Aerial Control**
Allows you to turn off the Radio Data System function to prevent the motor-driven antenna from extending. Default is "ON".

Digital Radio (DDX9017DABS)

Digital Radio Basic Operation

Most functions can be controlled from the source control screen.

To enter Digital Radio source, touch **Digital Radio** icon in 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.72)***.

Control screen

Preset list screen

1 Indicator display

Displays the received signal strength.

2 Information display

Displays the information of the current station: Service Name

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

Content A: Ensemble name, PTY Genre

Content B: Song Title, Artist Name, DLS

Content C: Now Playing, Next Program, Audio Quality

3 AUTO1 / AUTO2 / MANUAL

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

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

4 Function bar

- : Displays the Service List screen. For details on search operation, see ***Service search (P.40)***.
- : Tunes in a ensemble, service, and component. The seek mode switching can be changed. (see 3 in table).
- : Touch to mute or not to mute.

5 Preset key

Recalls the memorized service.

Touching on the screen or flicking the screen to left will display the Preset list. Touching again or flicking to right will close the list.

6 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see ***Function panel (P.39)***.

7 Artwork area

The picture data is displayed if available from current content.

Touch to switch between the Control and Information screen.

P#: Preset number

CH#: Channel display

8 Preset list

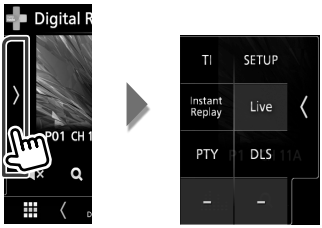
Recalls the memorized service. When touched for 2 seconds, stores the current service in memory.

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.

Function panel

1 Touch on the left side of the screen.



The functions of each key are as follows.

TI

Sets the traffic information mode on. For details, see ***Traffic Information (P.41)***.

SETUP

Displays the Digital Radio SETUP screen. For details, see ***Digital Radio Setup (P.42)***.

Instant Replay (Live mode only)

Change the Replay mode. See ***Replay (P.41)***.

Live (Replay mode only)

Change the Live mode.

PTY (Live mode only)

Searches a program by setting program type. For details, see ***Search by program type (P.40)***.

DLS

Display the Dynamic Label Segment screen.

Information screen

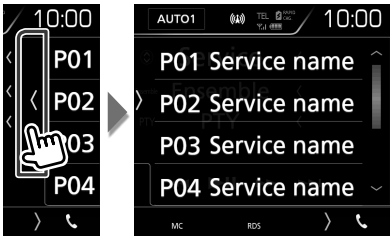
1 Touch to switch between the Control and Information screen.

Storing Service in Preset Memory

You can store the current receiving service in memory.

1 Select a service you wish to store in memory.

2 Touch on the right side of the screen.



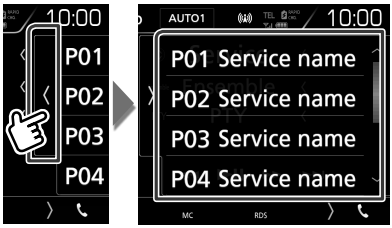
3 Touch [P#] (#:1-15) in which you want to store the station for 2 seconds until a beep sounds.

Selecting Operation

Preset select

You can list and select memorized service.

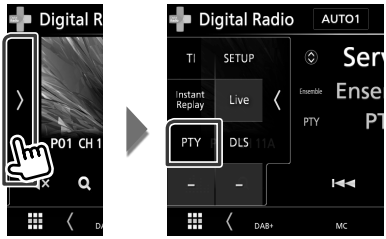
1 Touch on the right side of the screen. Select a service from the list.



Search by program type

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

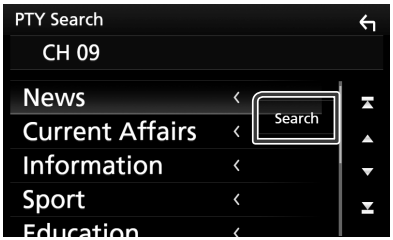
1 **Touch on the left side of the screen. Touch PTY.**



➤ PTY Search screen appears.

2 **Select a program type from the list.**

3 **Touch Search.**



You can search a station of the selected program type.

Service search

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

1 **Touch .**

2 **Select the desired content from the list.**

■

Touch and hold to find the latest service list.

■ **A-Z**

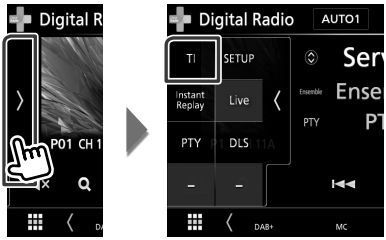
Displays the keyboard screen.

Jump to the letter you entered (alphabet search).

Traffic Information

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

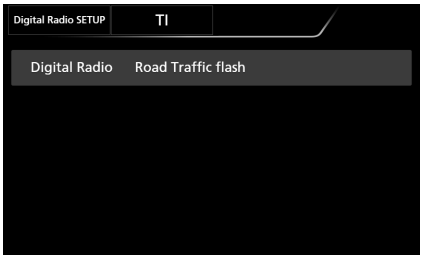
1 **Touch on the left side of the screen. Touch TI.**



➤ Traffic information mode is set.

When the traffic bulletin starts

The Traffic Information screen appears automatically.



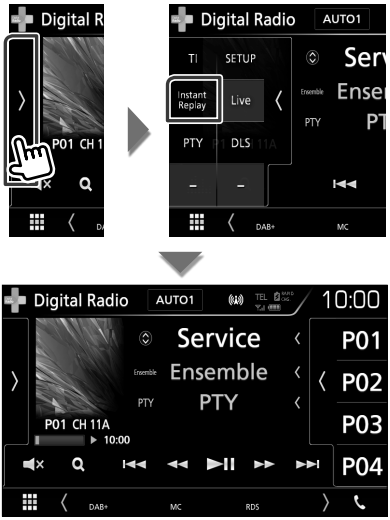
NOTE

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

Replay

You can replay last 30 minutes of current station.

1 **Touch on the left side of the screen. Touch Instant Replay.**



■ ⏮ ⏭
Forward/backward 15 seconds when touch it.

■ ◄◄ ►►
Fast forward/fast backward when keep on touching. (It will be cancelled automatically after about 50 seconds.)

■ ►II
Plays or pauses.

■ **Replay time bar**
Display recorded capacity

To return to live

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

2 **Touch Live.**

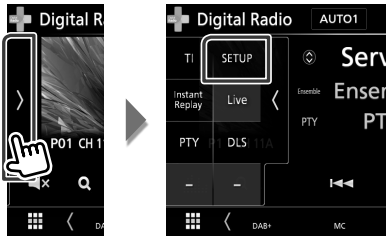
NOTE

- PTY Watch starts operating and Replay function cannot be used while receiving a program.
- While replaying the current station, you can not store the station by ***Storing Service in Preset Memory (P.39)***.

Digital Radio Setup

You can set Digital Radio related parameters.

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



➤ Digital Radio SETUP screen appears.

2 Set each item 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.42)***.

■ **Seamless Blend**
Prevents audio break when switching from Digital Radio to Analog Radio. Default is "ON".

■ **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".

■ **L-Band Tuning**
Sets L-band reception. When set to "ON", also receives L-band ensembles.
When the setting is changed, the preset services are initialized.

■ **Related Service**
When you select ON, the unit switches to a related service (if exists) when a Digital Radio 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.

1 Touch Announcement Select in the Digital Radio 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, various functions can be used: listening to the audio file, making/receiving a call.

Information for using Bluetooth® devices

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

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

NOTE

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

About the cell-phone and Bluetooth audio player

This unit conforms to the following Bluetooth specifications:

Version
Bluetooth Ver. 3.0

Profile
Cell-phone:
HFP (V1.6) (Hands Free Profile)
SPP (Serial Port Profile)
PBAP (Phonebook Access Profile)

Audio player:
A2DP (Advanced Audio Distribution Profile)
AVRCP (V1.5) (Audio/Video Remote Control Profile)

Sound codec
SBC, AAC

NOTE

- For the cell-phones verified for compatibility, access the following URL: ***http://www.kenwood.com/cs/ce/bt/***.
- The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG.
- However, it may be impossible for such units to communicate with your cell-phone depending on its type.

Register from the Bluetooth unit

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

You can register up to 10 Bluetooth units.

NOTE

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

Preparation

- You cannot register the Bluetooth unit when you are using the following sources:
  Air Mirroring

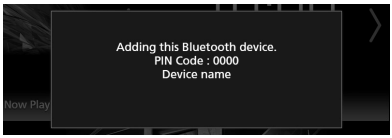
Follow the step 1, 2 and 3 for registration.

Step 1: Registration from the Bluetooth device

1 Search the unit (“DDX**”/ “DMX****”) from your smartphone/cell-phone.**

2 Input the PIN code in your smartphone/ cell-phone.

PIN code is set to “0000” as the default.



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

1 Search the unit (“DDX**”/ “DMX****”) from your smartphone/cell-phone.**

2 Confirm the request both on the smartphone/cell-phone and the unit.

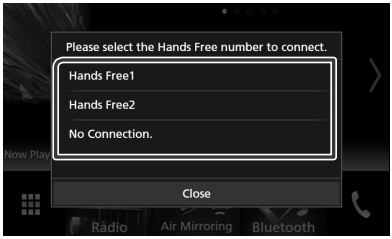
Step 2: Connection settings

- When the HFP profile is supported, Hands Free 1 or 2 is automatically selected for connection, proceeding to the next step.
- When the A2DP or SPP profile is supported, the cell-phone or audio player is automatically connected, proceeding to the next step.

If cell-phones and/or audio players have already been connected, a selection screen appears.

1 Select the hands-free number to connect.

A name of a smartphone is displayed when it has hands-free connection with the unit.



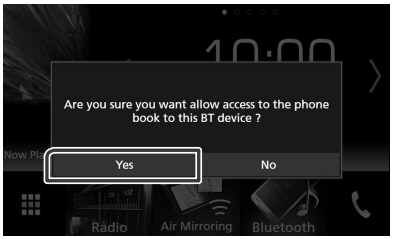
2 Select if you want to use the audio player app in your smartphone over A2DP, and the other apps in your smartphone over SPP.

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

Step 3: Phonebook transfer

1 Select if you want to transfer your phonebook data.

This message appears if the device supports PBAP.



The phonebook data transmission starts.

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

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

Bluetooth Setup

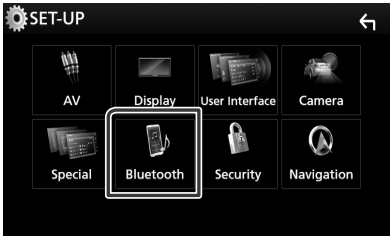
1 Press the MENU button.

➤ Popup menu appears.

2 Touch SETUP.

➤ SETUP Menu screen appears.

3 Touch Bluetooth.



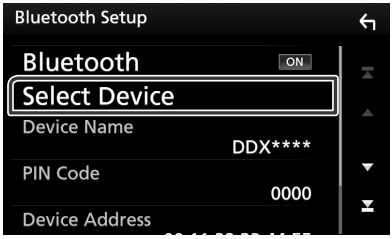
➤ Bluetooth SETUP screen appears.

See the following section for each setting.

- Connect the Bluetooth unit ***(P.46)***
- Change the PIN code ***(P.47)***
- Change the device name ***(P.47)***

Connect the Bluetooth unit

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



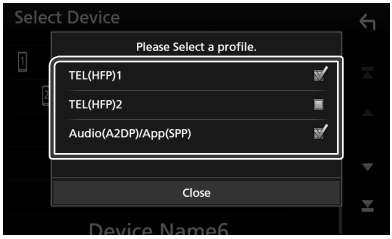
2 **Touch the device name you want to connect.**

➤ Profile select screen appears.

NOTE

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

3 **Set each profile as follows.**



■ **TEL (HFP) 1, TEL (HFP) 2**
The device is connected with the unit as hands-free phone 1 or 2.

■ **Audio (A2DP)/App (SPP)**
Set to interwork with an application installed in a smartphone or to use as an audio player.

4 **Touch Close.**

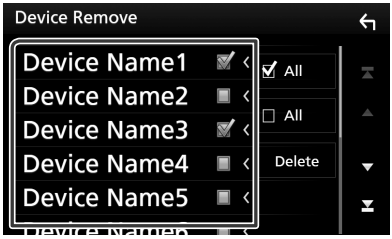
NOTE

- If a device has been paired, the Bluetooth unit cannot be connected from the paired device.

To delete the registered Bluetooth unit

1 **Touch Delete.**

2 **Touch the device name to check.**



■ ☑ **All**
Select all Bluetooth unit.

■ ☐ **All**
Erases all check marks.

3 **Touch Delete.**
➤ Confirmation message appears.

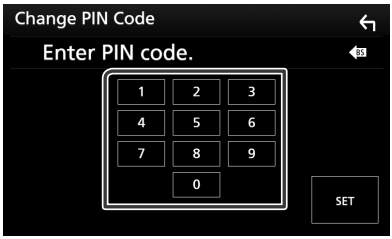
4 **Touch Yes.**

Change the PIN code

1 Touch **PIN Code** in the Bluetooth SETUP screen.

➤ PIN Code Set screen appears.

2 Input the PIN code.



3 Touch **SET**.

Change the device name

1 Touch **Device Name** in the Bluetooth SETUP screen.

➤ Change Device Name screen appears.

2 Input the device name.

3 Touch **Enter**.

Playing Bluetooth Audio Device

Most function can be controlled from the source control screen.

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

Bluetooth basic operation

Control screen

1 Device name/ /

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

2 Information display *

Displays the name of the track information.

3 Function bar *

- : Searches file. See ***File search (P.48)***.
- : Searches the previous/next content. Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- : Plays.
- : Pauses.
- : Touch to mute or not to mute.

4 Function panel

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

- **BT DEVICE CHANGE** : Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP). See ***Connect the Bluetooth audio (P.48)***.

5 Play mode indicator/ Playing time

►, ❚❚: Current play mode indicator

The meanings of each icon are as follows;
► (play), ►► (fast forward), ◄◄ (fast backward), ❚❚ (pause), ■ (stop).

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

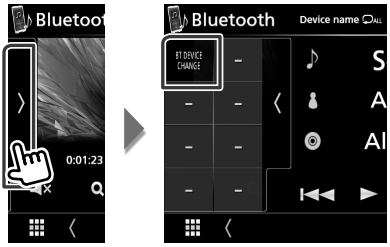
NOTE

- If the operation keys do not appear, operate from the player.
- Depending on your cell-phone or audio player, audio may be heard and controlled but text information may not appear.
- If the volume is too low, raise it on your cell-phone or audio player.

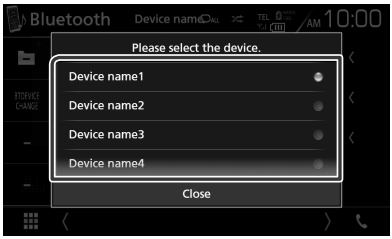
Connect the Bluetooth audio

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

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



2 Touch the device name you want to connect.



3 Touch Close.

File search

1 Touch 🔍.

2 Touch the desired file or folder.

When you touch a folder its contents are displayed.

3 Touch desired item from the content list.

➤ Playback starts.

NOTE

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

Using Hands-Free Unit

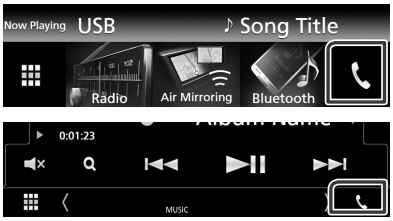
You can use telephone function by connecting the Bluetooth telephone to this unit.

NOTE

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

Make a call

1 **Touch .**



➤ Hands Free screen appears.

NOTE

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

2 **Select a dialing method.**

- : Call using call records
- : Call using the phonebook
- : Call using the preset number
- : Call by entering a phone number
- : Voice Recognition ***(P.50)***

● **Select the cell-phone to use**

When you connect two cell-phones

1) Touch Device name1 Device name2 to select the phone you want to use.

● **Bluetooth SETUP**

1) Touch .
Bluetooth SETUP screen appears.

NOTE

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

Call using call records

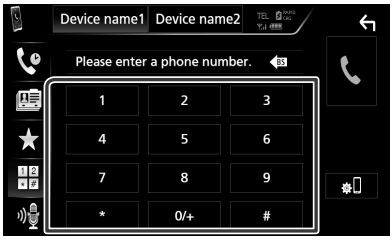
1 **Touch .**

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

Call by entering a phone number

1 **Touch .**

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



3 **Touch .**

Call using the preset number

1 **Touch ★.**

2 **Touch the Name or phone number.**

Call using the phonebook

1 **Touch .**

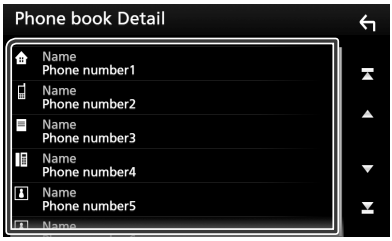
2 **Touch A-Z.**

3 **Select the initial.**

- Characters with no corresponding name will not appear.
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".

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

5 **Select the phone number from the list.**



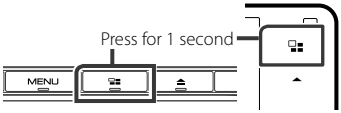
NOTE

- You can set the list to arrange in the order of last name or first name. For details, see ***Hands-Free Setup (P.53)***.

Voice Recognition

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

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



➤ Voice Recognition screen appears.

2 **Start speaking.**

NOTE

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

Receive a call

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

NOTE

- While monitoring the view camera, this screen does not appear even if a call comes in. To display this screen, press the **TEL** button or return the shift knob of car to the driver position.

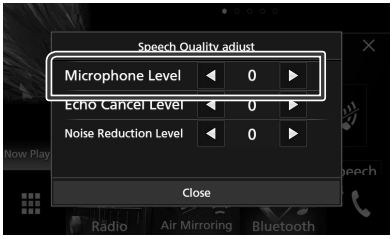
To end call

1 While talking, touch .

Operations during a call

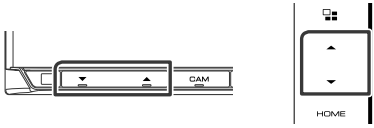
● Adjust the volume of your voice

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



● Adjust the receiver volume

Press the ▼ or ▲ button.



● Mute your voice

Touch to mute or not to mute your voice.

● Output the dial tone

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

● Switching the speaking voice output

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

● Call-waiting

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

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

● ×

The Hands-Free popup screen is closed. To display it again, touch .

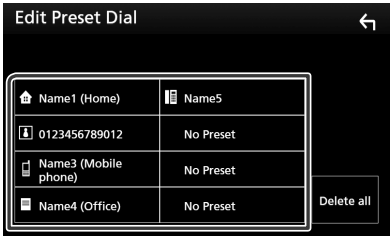
Phone number preset

You can register frequently used phone numbers to this unit.

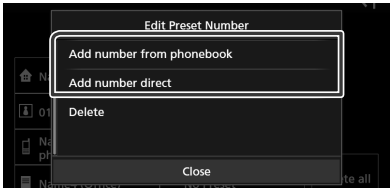
1 Touch ★.

2 Touch **Edit**.

3 Select where to preset.



4 Select how to preset.



- **Add number from phonebook**:

Select the number to preset by referring to "Call using the phonebook". See ***Call using the phonebook (P.50)***.

- **Add number direct**:

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

NOTE

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

Phonebook transfer

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

1 Touch .

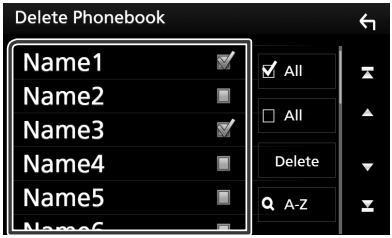
2 Touch .

➤ The phonebook data transmission starts.

Phonebook deletion

1 Touch .

2 Touch the name to check.



■ ☑ **All**
Checks all boxes.

■ ☐ **All**
Erases all check marks.

3 Touch **Delete**.
➤ Confirmation message appears.

4 Touch **Yes**.

Hands-Free Setup

You can perform various setup about handsfree function.

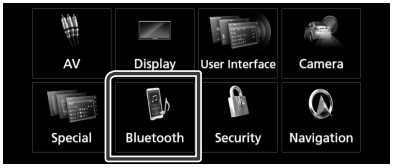
1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch SETUP.**

➤ SETUP Menu screen appears.

3 **Touch Bluetooth.**

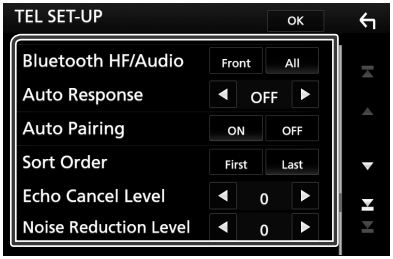


➤ Bluetooth SETUP screen appears.

4 **Touch TEL SETUP.**

➤ TEL SETUP screen appears.

5 **Set each item as follows.**



■ **Bluetooth HF/Audio**

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

Front: Outputs from the front speakers.

All (Default): Outputs from all speakers.

■ **Auto Response***

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

OFF (Default): Automatic response is not available.

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

■ **Auto Pairing**

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

ON (Default): Uses Apple Auto Pairing function.

OFF: Not uses Apple Auto Pairing function.

■ **Sort Order**

Sets how to arrange the cell-phone phonebook.

First: Arranges in the order of first name.

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

■ **Echo Cancel Level**

Adjusts the level of echo cancellation.

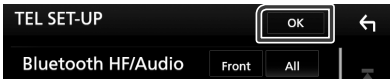
Default is "0".

■ **Noise Reduction Level**

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

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

6 **Touch OK.**



Other External Components

View Camera

NOTE

- To connect a camera, see ***P.83***.
- To use a rear view camera, a REVERSE lead connection is required. ***(P.81)***
- The view of the front view camera or dashboard camera varies depending on the setting of **Dashboard Camera /Front Camera**.
- If **R-CAM Interruption** is set to on, the camera screen is displayed when you shift the gear to the reverse (R) position.

Display the camera screen

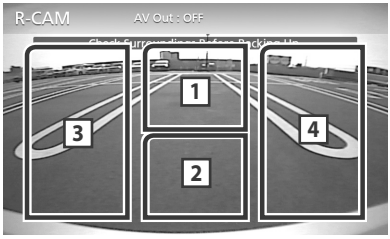
1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch Camera.**

➤ View camera screen appears.

3 **Adjust each item as follows.**



1 Switching the View Camera

Touch to change the front view camera[1] or dashboard camera and rear view camera.

2 Camera off

Touch to exit the camera screen.

3 Switching the Guideline [1]

Touching each time turns on or off the guideline. Available when **Rear Camera** is set to **CMOS 3-Series Camera**.

4 Switching the Angle [1]

Touch to change the camera angles:

Available when **Dashboard Camera / Front Camera** is set to **CMOS 3-Series Camera**.

• [1] Only for DDX9

Camera Setup

1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch SETUP.**

➤ SETUP Menu screen appears.

3 **Touch Camera.**

➤ Camera screen appears.

4 **Set each item as follows.**

■ **Rear Camera (DDX9)**

CMOS 3-Series Camera: Select this when the CMOS-3xx series with ID 1 set is connected.

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

■ **R-CAM 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.

■ **R-CAM Settings (DDX9)**

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

■ **Parking Guidelines**

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

Default is "ON".

■ **Guidelines SETUP**
If you select **ON** for **Parking Guidelines**, adjust the parking guidelines. See ***To adjust the parking guidelines (P.55)***.

■ **Dashboard Camera /Front Camera (DDX9)**
Dashboard Camera: Select this when the dashboard camera is connected.
CMOS 3-Series Camera: Select this when the CMOS-3xx series with ID 2 set is connected.
Other: Select this when the other camera is connected.
OFF (Default): Select this when no camera is connected.

■ **F-CAM Settings (DDX9)**
If you select **CMOS 3-Series Camera** for **Dashboard Camera /Front Camera**, adjusts the CMOS-3xx series with ID 2 set. For details, see the instruction manual of your camera.

■ **Front Camera Mirror Image (DDX9)**
If you select **ON** for **Dashboard Camera / Front Camera**.
ON: Displays the picture from the front view camera horizontally reversed.
OFF (Default): Displays the picture from the front view camera as it is.

■ **Dashboard Camera (DMX7)**
ON: Select this when the dashboard camera is connected.
OFF (Default): Select this when no camera is connected.

To adjust the parking guidelines

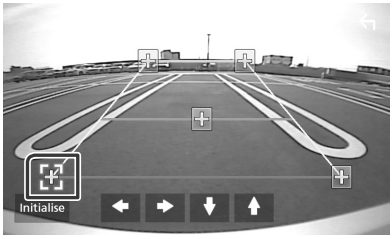
NOTE

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

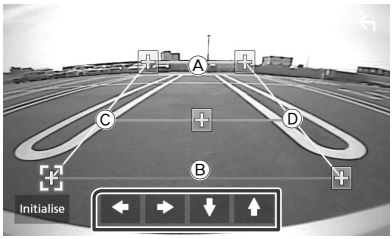
1 **Touch ON of Parking Guidelines in the Camera screen. *(P.54)***

2 **Touch Guidelines SETUP in the Camera screen.**

3 **Adjust the parking guidelines by selecting the mark.**



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



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

NOTE

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

External audio/video players—AV-IN

1 **Connect an external component to the AV-IN input terminal. *(P.83)***

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

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

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

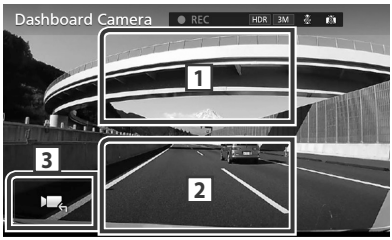
- To connect a dashboard camera, see ***P.85***.
- Sets the dashboard camera/front camera as **Dashboard Camera**. ***(P.55)***

Display the dashboard camera screen

1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch Camera.**



1 Switching the View Camera

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

2 Camera off

Touch to exit the camera screen.

3 Key display

Touch to display the dashboard camera control buttons.

Using the external navigation unit (DDX9)

You can connect a navigation unit (KNA-G630: optional accessory) to the navigation input terminal so that you can view the navigation screen. ***(P.83)***

The navigation guidance comes out of the front speakers even when you are listening to an audio source.

Display the navigation screen

1 **Press the HOME button.**

2 **Touch** .

3 **Touch NAV.** ***(P.13)***

➤ The navigation screen appears.

Navigation Setup

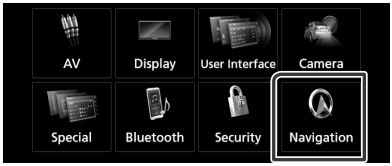
1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch SETUP.**

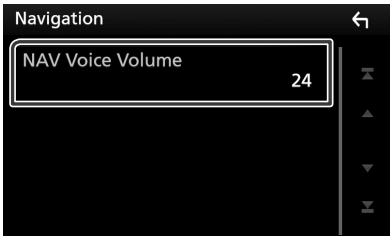
➤ SETUP Menu screen appears.

3 **Touch Navigation.**



➤ Navigation SETUP screen appears.

4 **Set each item as follows.**



■ **NAV Voice Volume**

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

TV tuner (DDX9)

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

2 **Touch Key display area.**

■ **Hides the indicators and buttons.**
Touch **Hide**.

■ **Change the channel.**
Touch **CH▲**, **CH▼**.

Setting Up

Monitor Screen Setup

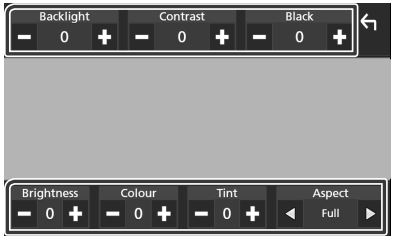
You can adjust image quality in video, menu screen, etc.

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

2 **Touch Screen Adjustment.**

➤ Screen Control screen appears.

3 **Adjust each item as follows.**



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

■ **Aspect**
Select screen mode.

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

Normal: Displays with 4:3 ratio.

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

NOTE

- Adjusting items are different depending on the current source.

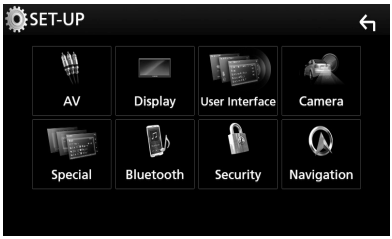
System Setup

NOTE

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

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

2 **Touch SETUP.**



See the following section for each setting.

- Set up AV ***(P.63)***
- Set up display ***(P.61)***
- Set up the user interface ***(P.58)***
- Set up camera ***(P.54)***
- Set up special ***(P.60)***
- Set up Bluetooth ***(P.45)***
- Set up security ***(P.10)***
- Set up navigation ***(P.56)***

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 item as follows.**

■ **Steering Remote Controller**
Sets the desired function in the steering remote controller. See ***Learning function of steering remote (P.60)***.

■ **Beep Volume**
Sets the sound volume of the key touch tone.
"0" (Off) – "3" (Default) – "5"

■ **Gesture Control** *1
Select to be on or off the Gesture Control. ***(P.16)***
Default is "ON".

■ **Gesture Beep** *1
The beep comes out when a gesture is detected.
Default is "ON".

■ **Gesture SETUP** *1
Assign the functions or sources/screens to display for gesture control. (Page 61)

■ **Gesture Sensitivity** *1
If you have selected **OFF** for **Gesture Control**, adjust the detection range of the Gesture Control from "1" (short) to "12" (long). Default is "7".

■ **Language Select**
Selects a language.

■ **Touch Panel Adjust (DMX7)**
Adjust the sensing position of touch panel. ***(P.59)***

■ **Clock**
GPS-SYNC (Default): Synchronizes the clock time with the GPS.
Manual: Sets the clock manually

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

■ **Clock Adjust**
If you select **Manual** for Clock, adjust the date and time manually. ***(P.59)***

■ **Travel Prayer for Safe Drive** *2
When this function is set, the prayer for driving safety is displayed when the unit is turned on, then Quran is played.
Turns the Safe drive pray function on or off.

■ **Travel Prayer for Safe Drive Volume** *2
If you have selected **ON** for **Travel Prayer for Safe Drive**, sets the sound volume of Quran.

*1 DDX917WS/ DDX917WSM only
*2 DDX9017SM/ DDX917WSM only

Adjust the date and time manually.

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

2 **Select the time zone.**

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

4 **Adjust the date, then adjust the time.**

5 **Touch Set.**

Touch panel adjustment (DMX7)

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

2 **Follow the instruction on the screen and touch and hold the center of each .**

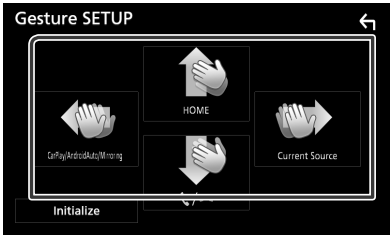
NOTE
- To cancel the touch panel adjustment, touch **Cancel**.
- To reset to the initial status, touch **Reset**.

Register operations by Gesture Control (DDX917WS/ DDX917WSM)

You can register operations that work by the motion of your hand.

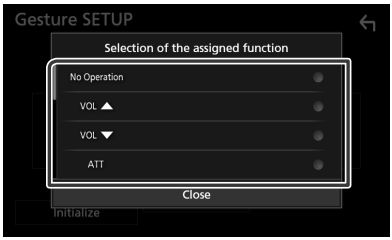
1 **Touch Gesture SETUP on the User Interface screen.**
➤ Gesture SETUP screen appears.

2 **Touch a gesture mark you want to set.**



■ **Initialize**
Return to the initial setting. The confirmation message appears. Touch **Yes**.

3 Touch the function you want to set.



4 Repeat steps 2 and 3 as necessary.

5 Touch ↩ **.**

Learning function of steering remote

This function is available only when your vehicle is equipped with the electrical steering remote controller.

If your steering remote controller is not compliant, learning may not be completed and error message may appear.

1 Touch Steering Remote Controller in the User Interface screen.

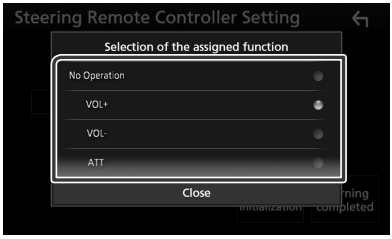
➤ Steering Remote Controller Setting screen appears.

2 Press and hold the steering remote controller button

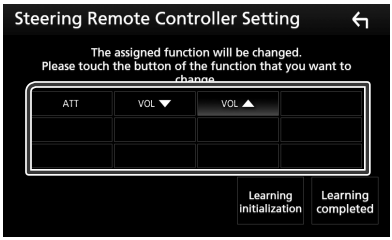
NOTE

- You can have the unit learned all buttons at a time. In that case, press the all buttons one at a time and after pressing all of them, touch **Learning completed** in Steering Remote Controller Setting screen. However, new functions cannot be learned after this operation.

3 Touch the function you want to set.



4 Repeat steps 2 and 3 as necessary.



5 Touch Learning completed .

NOTE

- When changing the function already learned, press and hold the button you want to change in step 2 and then touch to select the changed function from the function list.
- Confirm the contents of the settable function on the function list. You cannot edit the function list.
- To initialize the contents, touch **Learning initialization** of **Steering Remote Controller** in User Interface screen. After you touch **Initialize**, a confirmation message appears. Follow the message and complete the operation.

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 item as follows.

■ **DEMO**

Set the demonstration mode. Default is "OFF" (Region 2/3)/ "ON" (Region 4).

■ **Manual Power OFF (DDX9017DABS/ DDX9017S/ DDX9017SM/ DMX7017BTS only)**

Assigns the function of the **HOME** button when held.

AV OFF: Turns off the screen and audio. Interrupts from incoming hands-free calls, rear camera views and so on are functional, though.

Complete OFF (Default): Switches off the power. Interrupts are not functional.

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

■ **Audio SETUP Memory**
Memorizes the current audio setting.

- Fader/ Balance, Speaker / X'over, Equalizer (User Preset, SW Level), Position/DTA, Sound Effect ***(P.64)***

■ **Audio SETUP Recall**
Recalls the memorized audio setting.

■ **Audio SETUP Clear**
Clears the AUDIO SETUP Memory and the currently memorized audio setting.

■ **Software Information**
Check the software version of this unit.
(P.61)

■ **Open Source Licenses**
Displays the open source licenses.

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

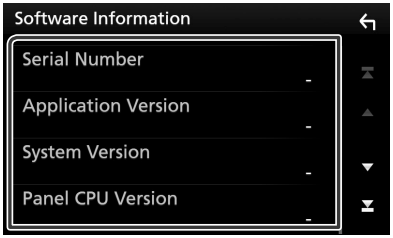
- Audio SETUP Memory is not initialized.

Software Information

Check the software version of this unit.

1 **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 item as follows.**

■ **Dimmer**
Select dimmer mode.

OFF: The display and buttons do not dim.

ON: The display and buttons dim.

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

■ **OSD Clock**
Select if you want to display the clock while watching DVD video, etc.
"ON" (Default)/ "OFF"

■ **Key Color**
You can set the button illumination color.
(P.62)

■ **Background**
Changing background image or color.
(P.62)

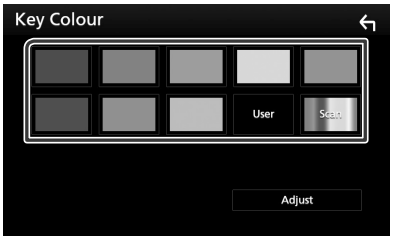
■ **Viewing Angle**
If it is hard to see the image on the screen even after adjusting the front panel angle, adjust the viewing angle. The smaller the (negative) value, the more whitish the image on the screen looks.
"0" (Default)/ "-1"/ "-2"/ "-3"

Customizing the key color

You can set the button illumination color.

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

2 **Touch the desired color.**



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

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

3 **Touch** .

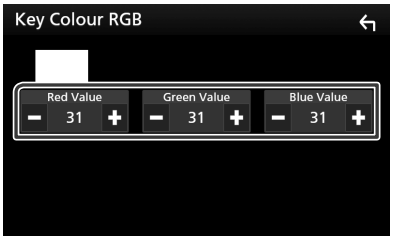
To register original color

You can register your original color.

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

2 **Touch Adjust.**

3 **Use − and + to adjust each color value.**

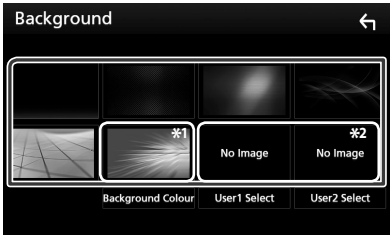


4 **Touch** .

Change background image or color

1 **Touch Background in the Display screen.**

2 **Select an image.**



*1 Select a background color in advance.
*2 Select an original image in advance.

To select background color

1 **Touch Background Color in the Background screen.**

2 **Select a background color.**

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

3 **Touch** .

To register original image

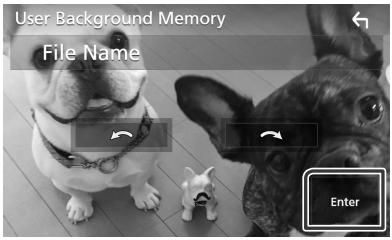
You can load an image from the connected USB device and set it for the background image.

Before operating this procedure, it is necessary to connect the device which has the image to load.

1 **Touch User1 Select or User2 Select in the Background screen.**

2 **Select the image to load.**

3 **Touch Enter.**



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

NOTE

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

AV Setup

You can set AV parameters.

1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch SETUP.**

➤ SETUP screen appears.

3 **Touch AV.**

➤ AV screen appears.

4 **Set each item as follows.**

■ **TV Tuner Control (DDX9)**

Sets when connecting the TV tuner to AV INPUT.

ON: Set to ON when connecting the 3rd party TV tuner. AV-IN1 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, DISC, USB, or iPod

You cannot select iPod if it is connected via Bluetooth.

If you select USB, iPod, Disc, Spotify, Pandora, Bluetooth audio, Apple CarPlay or Android Auto as the main source, you cannot select USB or iPod as the AV output source.

■ **Wi-Fi SETUP (DDX9)**

See ***Change the device name (P.29)***.

■ **CarPlay Sidebar**

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

"Left"/"Right" (Default)

Controlling Audio

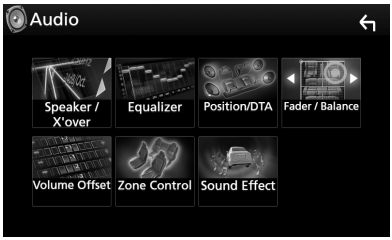
NOTICE

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

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

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

2 **Touch Audio.**



See the following section for each setting.

- Set up speaker/ X'over ***(P.64)***
- Controlling equalizer ***(P.67)***
- Set listening position/ DTA ***(P.69)***
- Controlling general audio (Fader / Balance) ***(P.66)***
- Set volume offset ***(P.68)***
- Performing zone control ***(P.68)***
- Set sound effect ***(P.69)***

Speaker/ X'over setup

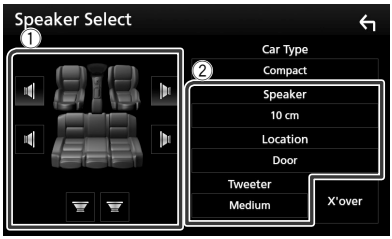
1 **Press the MENU button.**
➤ Popup menu appears.

2 **Touch Audio.**
➤ Audio screen appears.

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

4 **Select a car type.**
You can setup the car type and speaker network, etc.
If your car type is selected, the Delay Time Alignment is set automatically (for timing adjustment of sound output for each channel) to have the highest surround effects.

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



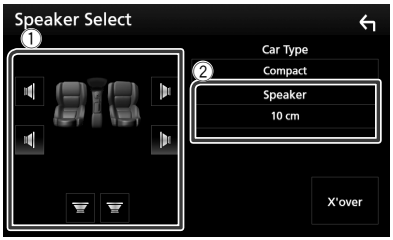
■ **Speaker**
You can select a speaker type and its size to get the best sound effects.
When the speaker type and size are set, the speaker crossover network is set automatically.

■ **Location (Only for Front, Rear)**
Select the speaker position you have fixed.

■ **Tweeter (Only for Front)**
You can set the tweeter when you are selecting front speakers.
None, Small, Medium, Large

■ **X'over**
Displays the speaker crossover setup screen.
You can adjust the crossover setup that was set automatically when you selected the speaker type.
For details, see ***Crossover network setup (P.65)***

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.66)***. Connecting 3-way speakers with the 2-way mode selected can break the speakers.
- Select "None" if you have no speakers.

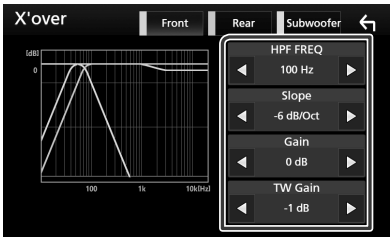
Crossover network setup

You can set a crossover frequency of speakers.

1 **Touch X'over.**

2 **Touch the speaker to set.**

3 **Set each item as follows.**



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

■ **LPF FREQ**
Low Pass Filter adjustment. (When subwoofer is selected on Speaker Select screen)

■ **Slope*1**
Sets a crossover slope.

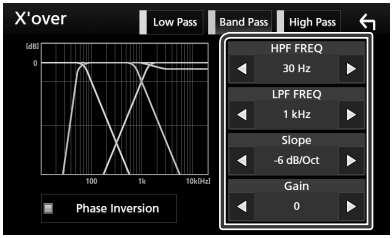
■ **Gain**
Adjusts the front speaker, rear speaker, or subwoofer level.

■ **TW (Tweeter) Gain *2**
Adjusts the tweeter level. (When front is selected on Speaker Select screen)

■ **Phase Inversion*3**
Sets the phase of subwoofer output.
Check **Phase Inversion** to shift the phase 180 degrees. (When subwoofer is selected on Speaker Select screen)

*1 Only when "LPF FREQ"/"HPF FREQ" is set to a mode other than "Through" in **X'over**.
*2 Only when "Tweeter" is set to "Small", "Medium", "Large" in **Speaker Setup**.
*3 Only when "Subwoofer" is set to a mode other than "None" in **Speaker Setup**.

When Speaker network is set to 3 way:



■ **FREQ (High Pass)**
High Pass Filter adjustment. (When tweeter is selected on Speaker Select screen)

■ **HPF FREQ, LPF FREQ (Band Pass)**
Band Pass Filter adjustment. (When mid range speaker is selected on Speaker Select screen)

■ **FREQ (Low Pass)**
Low Pass Filter adjustment. (When woofer is selected on Speaker Select screen)

■ **Slope*3**
Sets a crossover slope.

■ **Gain**
Sets gain of each speaker.

■ **Phase Inversion*2**
Sets the phase of tweeter, mid range, and woofer output.
Check **Phase Inversion** to shift the phase 180 degrees.

NOTE

- For how to switch to the 3-way speaker system, see ***3 way speaker system setup (P.66)***. Connecting 3-way speakers with the 2-way mode selected can break the speakers.

3 way speaker system setup

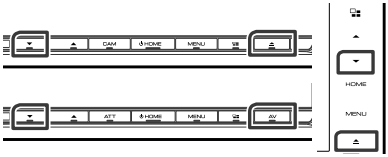
Select the appropriate crossover network mode according to the speaker system (2-way speaker system or 3-way speaker system).

1 **Press the HOME button.**
➤ HOME screen appears.

2 **Touch** .
➤ Source selection screen appears.

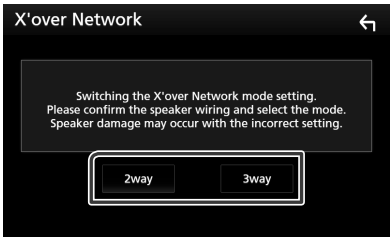
3 **Touch STANDBY.**

4 **Press the ▲ / AV button and the ▼ button 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.
  – Zone Control
  – Fader of Controlling General Audio
  – Front focus of Listening Position/ DTA
  – Select the speakers to output the sound from cell-phone of Blutooth HF/Audio
  – Beep of User Interface Setup
- Connecting 3-way speakers with the 2-way mode selected can break the speakers.

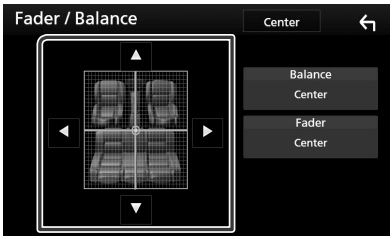
Controlling General Audio

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

2 **Touch Audio.**
➤ Audio screen appears.

3 **Touch Fader / Balance.**

4 **Set each item as follows.**



■ **Fader / Balance**
Adjust the volume balance around the touched area.
◄ and ► adjust the right and left volume balance.
▲ and ▼ adjust the front and rear volume balance.

■ **Center**
Clear the adjustment.

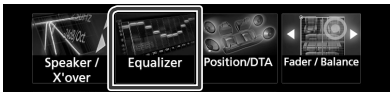
Equalizer Control

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

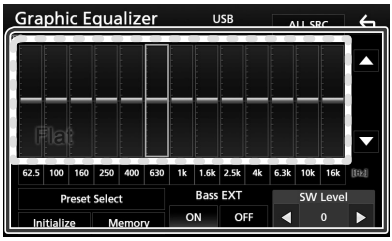
1 **Press the MENU button.**
➤ Popup menu appears.

2 **Touch Audio.**
➤ Audio screen appears.

3 **Touch Equalizer.**



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



■ **Gain level (dotted frame area)**
Adjust the gain level by touching the each frequency bar.
You can select frequency bar and adjust its level by ▲, ▼.

■ **Preset Select**
Displays the screen to recall the preset equalizer curve.

■ **Memory**
Saves the adjusted equalizer curve from "User1" to "User4".

■ **Initialize**
The current EQ curve returns to flat.

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

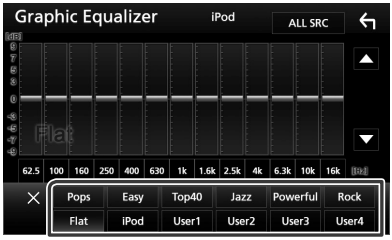
■ **Bass EXT (Bass Extend Settings)**
When turned on, the frequency lower than 62.5 Hz is set to the same gain level as 62.5 Hz.

■ **SW Level**
Adjusts the subwoofer volume. This setting is not available when subwoofer is set to "None". See ***Speaker/ X'over setup (P.64)***.

Recall the EQ curve

1 **Touch Preset Select.**

2 **Select EQ curve.**



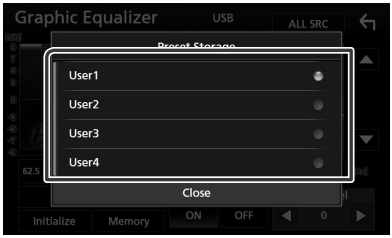
NOTE
- **iPod** is available only during iPod source.

Save the EQ curve

1 **Adjust the EQ curve.**

2 **Touch Memory.**

3 **Select where to save.**



Volume Offset

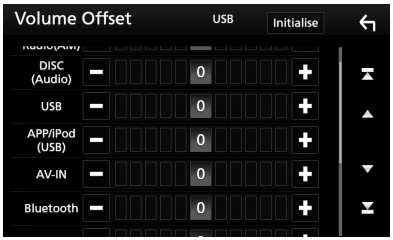
Finely adjust the volume of the current source to minimize the difference in volume between different sources.

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

2 **Touch Audio.**
➤ Audio screen appears.

3 **Touch Volume Offset.**

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



■ **Initialize**
Returns to the initial settings.

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

Zone Control

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

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

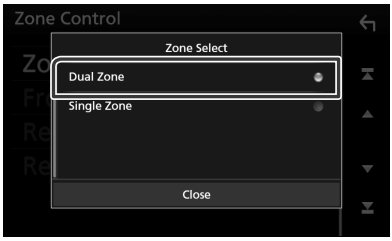
2 **Touch Audio.**
➤ Audio screen appears.

3 **Touch Zone Control.**

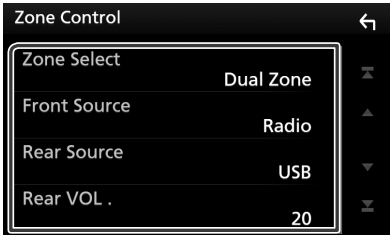
➤ Zone Control screen appears.

4 **Touch Zone Select.**

5 **Touch Dual Zone.**



6 **Set each source as follows.**



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

■ **Front Source Rear Source**
Select the audio source for each.

■ **Rear VOL.**
Adjusts the rear source volume.

NOTE

- When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.
- When the dual zone function is set to on, the following functions are not available.
  - Output from the subwoofer
  - Subwoofer Level/ Bass Boost ***(P.69)***
  - Equalizer Control/ Sound Effect/ Listening Position ***(P.67, 69, 69)***
  - Speaker Setup ***(P.64)***
  - High-resolution Sound Source File Playback
- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, iPod, Disc, Bluetooth audio, 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.**

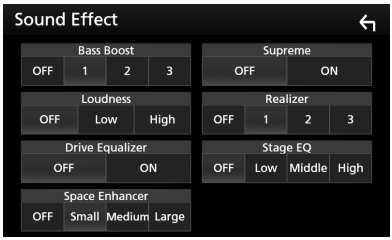
➤ Popup menu appears.

2 **Touch Audio.**

➤ Audio screen appears.

3 **Touch Sound Effect.**

4 **Set each item as follows.**



■ **Bass Boost**

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

■ **Loudness**

Sets the amounts of boost of low and high tones.

"OFF", "Low", "High"

■ **Drive Equalizer**

Reduces the driving noise by raising the bandwidth.

"OFF", "ON"

■ **Space Enhancer**

Select the feeling of sound space enhancement.

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

■ **Supreme**

Turns ON/OFF the Supreme function.

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

■ **Realizer**

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

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

■ **Stage EQ**

You can adjust the height of speakers virtually to suit your listening position.

"OFF"/ "Low"/ "Middle"/ "High".

Listening Position/ DTA

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

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

1 **Press the MENU button.**

➤ Popup menu appears.

2 **Touch Audio.**

➤ Audio screen appears.

3 **Touch Position/DTA.**

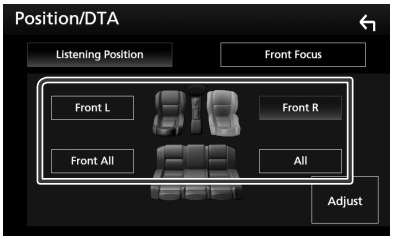
- Set up Listening Position ***(P.70)***
- Set up Front Focus ***(P.70)***

Listening Position

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

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

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



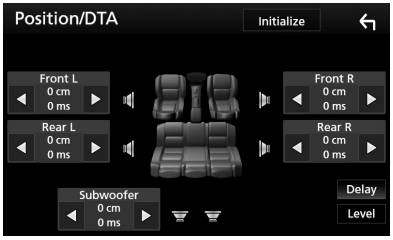
Position DTA control

You can fine-adjust your listening position.

1 **Touch Adjust.**

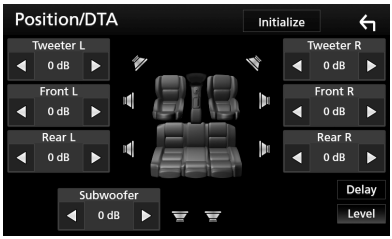
2 **Touch Delay.**

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



4 **Touch Level.**

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



NOTE

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

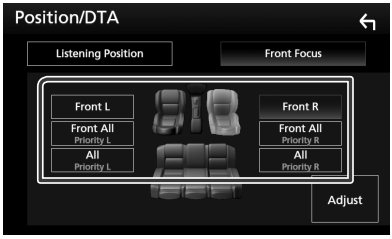
Front Focus

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

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

2 **Select a front focus position.**

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

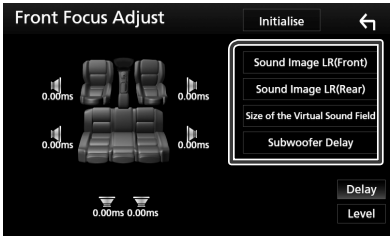


Front Focus fine adjustment

1 **Touch Adjust.**

2 **Touch Delay.**

3 **Set each item as follows.**



■ **Sound Image LR (Front)**
Adjust the sound image to focus on in front of front seats.

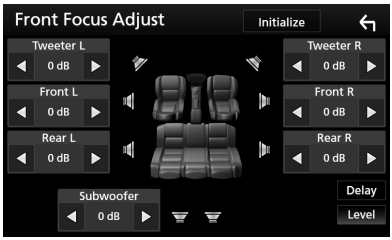
■ **Sound Image LR (Rear)**
Adjust the sound image to focus on in front of rear seats.

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

■ **Subwoofer Delay**
Adjust the delay time of subwoofer.

4 **Touch Level.**

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



NOTE

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

Remote control

This unit can be operated using the remote control.

⚠ CAUTION

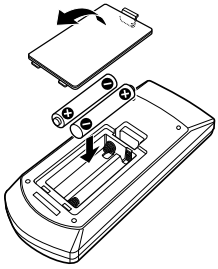
- Put the remote control in a place where it will not move during braking or other operations. A dangerous situation could result, if the remote control falls down and gets wedged under the pedals while driving.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive 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.

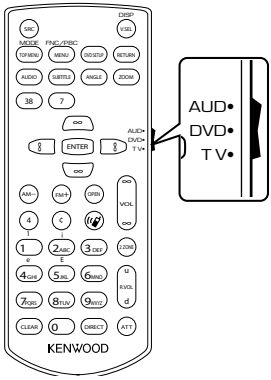
1 **Insert two "AAA"/"R03"-size batteries with the ⊕ and ⊖ poles aligned properly, following the illustration inside the case.**



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

■ **TV mode**
Not used.

NOTE

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

Direct search mode

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

NOTE

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

1 **Press the DIRECT button several times until the desired content appears.**
The available contents are different depending on the source.

■ **DVD**
Title number/Chapter number

■ **VCD 1.X and 2.X (PBC OFF)**
Track number

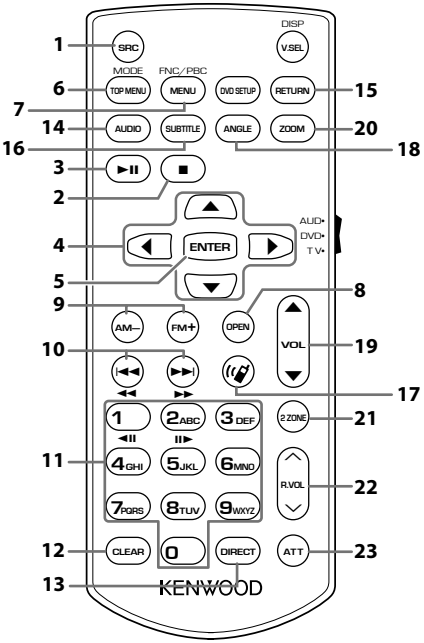
■ **VCD 2.X (PBC ON)**
Scene number/Track number

■ **Music CD**
Track number

■ **Radio**
Frequency value

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

3 **For DVD or VCD, music CD, press the ENTER button.**
For radio, press the ⏮ or ⏭ button.
➤ The content you entered is played.



	Key Name	Mode switch	Function
1	SRC	AUD	Switches to the source to be played. In hands-free mode, hangs up the phone.
2	■	DVD	Stops playing and memorizes the last point where the disc stopped. The last point is deleted by pressing twice.
3	►II	AUD, DVD	Pauses the track or file, and resumes playing by pressing twice. During radio source in AUD mode, switches the seek mode.
4	▲/▼/◄/►	DVD	Moves the cursor in the DVD menu.
5	ENTER	AUD, DVD	Performs the selected function.
6	TOP MENU	AUD	Screen mode changes each time you press this key during video playback.
		DVD	Returns to the DVD top menu.
7	MENU	AUD	Displays the control screen of current source. (USB, iPod, DISC)
		DVD	Displays the DVD menu. Turns the playback control on or off while playing VCD.
8	OPEN	AUD, DVD	Switches the display angle each time it is pressed.
9	AM–/FM+	AUD, DVD	Selects the folder to be played. During radio source in AUD mode, select FM/ AM band to be received.
10	I◄◄/►►I	AUD, DVD	Selects the track or file to be played. During radio source in AUD mode, switches to broadcast stations received by the unit.

	Key Name	Mode switch	Function
11	Numeric Keypad	AUD	Specifies the number to search in direct search. For details on the direct search mode, see ***Direct search mode (P.72)***.
		DVD	• Press **1** **2** to fast forward/backward. • Press **4** **5** to slow forward/backward. Switches the slow playback speed each time you press this key.* *DVD only
12	CLEAR	DVD	Clears the number.
13	DIRECT	AUD, DVD	Switches to the direct search mode. For details on the direct search mode, see ***Direct search mode (P.72)***.
14	AUDIO	DVD	Switches the voice language each time you press this key.
15	RETURN	DVD	Displays previous screen.
		NAV	Cancels the operations.
16	SUBTITLE	DVD	Switches the subtitle language.
17		–	When a call comes in, answers the call.
18	ANGLE	DVD	Switches the picture angle each time you press this key.
19	VOL ▲▼	–	Adjusts the volume.
20	ZOOM	DVD	Switches the zoom ratio (2, 3, 4, Off) each time you press this key.
21	2 ZONE	AUD, DVD	Switches the Dual Zone function on and off.
22	R.VOL ∧∨	–	Adjusts volume at rear when the Dual Zone function is on.
23	ATT	–	Lowers the volume by pressing the key once. Restores the previous volume by pressing the key twice.

Connection/Installation

Before Installation

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

⚠ WARNINGS

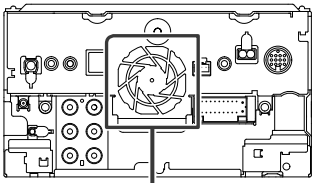
- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the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

⚠ CAUTION

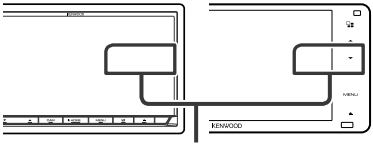
- Install this unit in the console of your vehicle. Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

NOTE

- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON ("There is an error in the speaker wiring. Please check the connections." is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- If the console has a lid, make sure to install the unit so that the front panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit is blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.

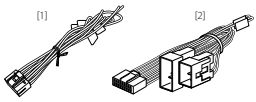
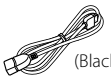
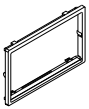
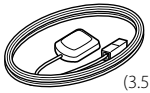


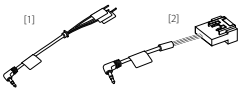
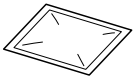
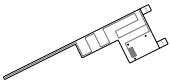
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- Reception may drop if there are metal objects near the Bluetooth antenna.



Bluetooth antenna unit

Supplied accessories for installation

① 	x1
②  (Black 1 m)	x1
③ (Gray 1 m)	x1
④ (3 m)	x1
⑤ [3] 	x1
⑥ (M5 x 8 mm)	x6
⑦ (M5 x 8 mm)	x6
⑧  (3.5 m)	x1

⑨	x1
⑩	x1
⑪  [1] [2]	x1
⑫ [4]	x3
⑬ [4] 	x1
⑭ [4] 	x1
⑮ [4]	x1

[1] DDX9017DABS/ DDX9017S/ DDX9017SM/ DMX7017BTS only

[2] DDX917WS/ DDX917WSM only

[3] DDX9017DABS/ DMX7017BTS only

[4] DDX9017DABS only

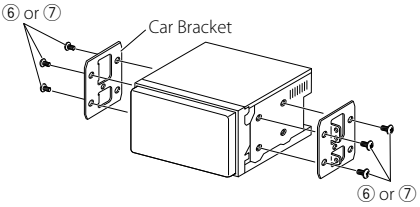
Installation procedure

1) 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 speaker wires of the wiring harness.

4) Connect the wiring harness wires in the following order; ground, battery, ignition.
5) Connect the wiring harness connector to the unit.
6) Install the unit in your car.
7) Reconnect the ⊖ terminal of the battery.
8) Perform the Initial Setup.
See ***Initial setup (P.9)***.

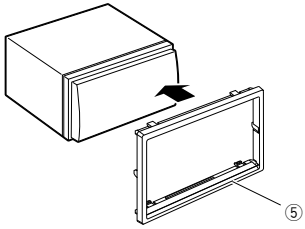
Installing the unit

Japanese cars



Trim plate (DDX9017DABS/ DMX7017BTS)

1) Attach accessory ⑤ to the unit.

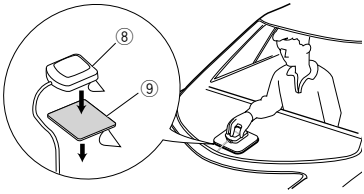


GPS antenna

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

To mount the GPS antenna inside your vehicle:

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

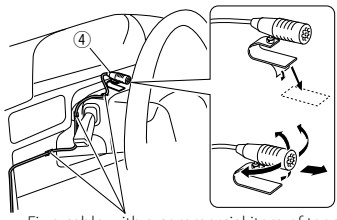


NOTE

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

Microphone unit

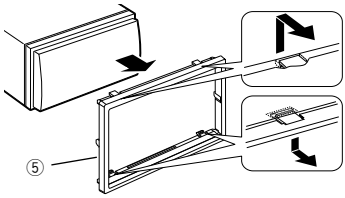
1) Check the installation position of the microphone (accessory ④).
2) Clean the installation surface.
3) Remove the separator of the microphone (accessory ④), and stick the microphone to the place shown below.
4) Wire the microphone cable up to the unit with it secured at several positions using tape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



Fix a cable with a commercial item of tape.

Detaching the trim plate (DDX9017DABS/ DMX7017BTS)

1) Detach accessory ⑤ to the unit.



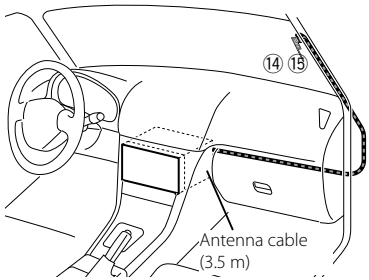
Installation the Digital Radio antenna (DDX9017DABS)

⚠CAUTION

- This film antenna is exclusively for use inside the vehicle.
- Do not install at the following locations:
  - Where it may block driver's view
  - Where it may obstruct operation of safety devices such as air bags
  - On movable glass surface such as rear hatch
  - On the side of the vehicle (e.g. doors, front-side windows)
  - On rear windows
- Signal strength will decrease at the following locations:
  - On IR reflecting glass or where covered with mirror type glass film
  - Where it overlaps with genuine radio antenna (pattern)
  - Where it overlaps with window heating wires
  - When glass that blocks radio signals (e.g. IR reflecting glass, thermal insulation glass) is used
- Poor reception may occur:
  - Due to noise when the windshield wipers, air conditioner, or motor is turned on
  - Depending on the location of the broadcast station in relation to the vehicle (antenna)
- Thoroughly wipe oil and dirt from the pasting surface with the included cleaner (accessory ⑬).
- Do not bend or damage the film antenna (accessory ⑭).
- It may not be possible to install on some type of vehicle.
- Check the cable routing of the film antenna (accessory ⑭) and amplifier (accessory ⑮) before pasting.

● Installation overview

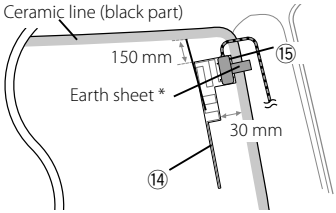
The antenna should be installed on the passenger side for safety.



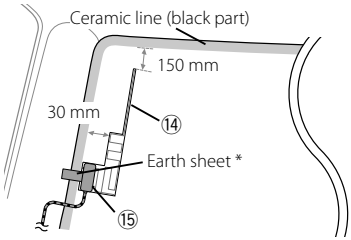
● Determining the antenna installation location

- The direction of the film antenna (accessory ⑭) changes depending on whether the film antenna is installed on the right side or left side.
- Be sure to check the installation location of the film antenna (accessory ⑭) before installing. The film antenna cannot be reattached.
- Install the antenna at least 100 mm away from other antennas.
- Do not attach the amplifier unit (accessory ⑮) to the ceramic line (black part) around the windscreen, as it will not stick sufficiently.

When installing the antenna on the right side



When installing the antenna on the left side



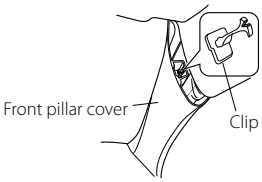
NOTE

- *Where the earth sheet of Amplifier (accessory⑮) can be pasted on the metal part of the front pillar.

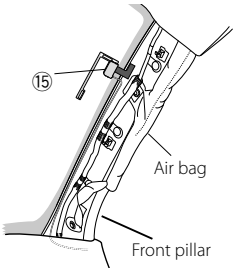
⚠CAUTION

When installing the antenna cable inside a front pillar that contains an air bag

- The front pillar cover is secured with a special clip which may need to be replaced when the front pillar cover is removed.
  Contact your vehicle dealer for details on replacing the front pillar cover and availability of replacement parts.

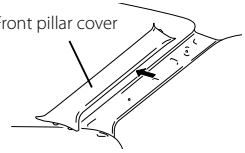


- Install the amplifier unit (accessory ⑮) above the air bag so that the antenna and the air bag.

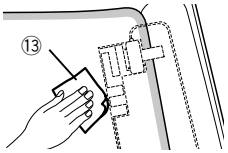


● **Determining the antenna installation location**

1) Remove the front pillar cover of your car.

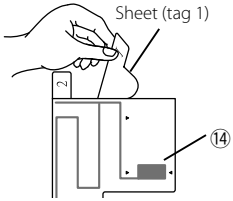


2) Clean the windscreen with the supplied cleaner (accessory ⑬).



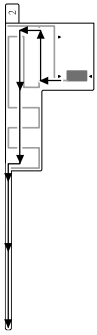
- Wait until the glass surface is completely dry before pasting.
- If the glass surface is cold, such as during winter, warm it with defroster or dryer.

3) Remove the first sheet (tag 1) of film antenna (accessory ⑭) horizontally and paste the antenna on the front glass.

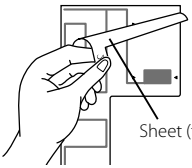


- Do not touch the pasting surface (adhesive side) of the film antenna (accessory ⑭).

4) Rub the film antenna (accessory ⑭) gently in the direction of the arrow shown below to firmly stick it to the windscreen.

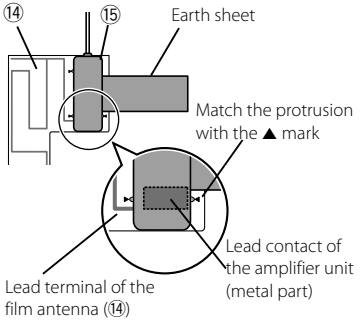


5) Remove the second sheet (tag 2) on the film antenna (accessory ⑭) vertically.

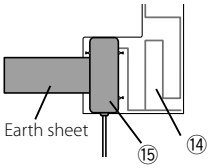


6) Match the protrusions of the amplifier unit (accessory ⑮) with the ◀ markings on the film antenna (accessory⑭) and attach the amplifier.
Do not touch the lead terminal or the adhesive side of the amplifier unit (-).

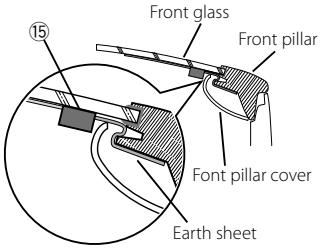
When installing the antenna on the right side



When installing the antenna on the left side



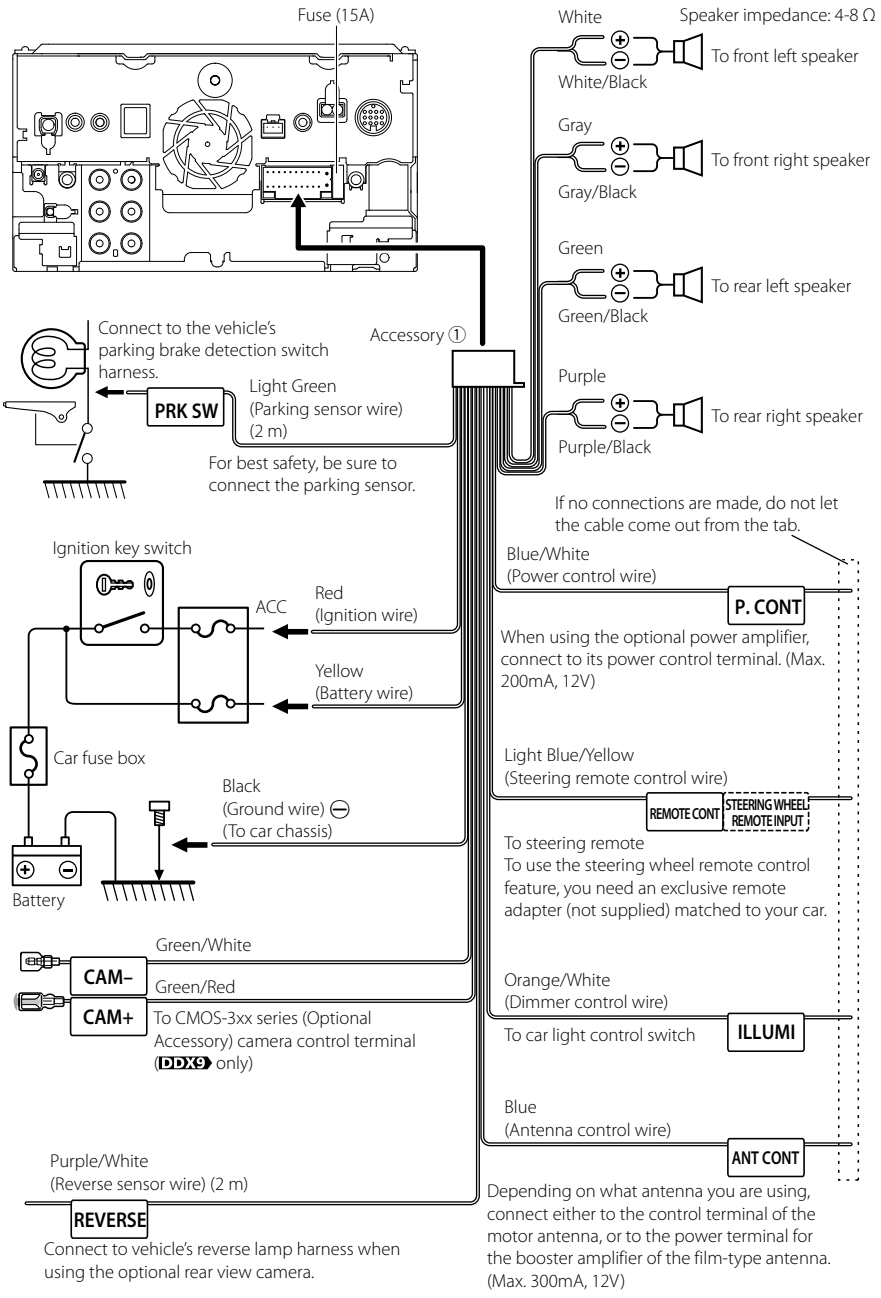
7) Remove the film covering the earth sheet and attach the earth sheet to the metal part of the vehicle.
Provide sufficient space for the earth sheet so that it does not obstruct the interior parts (front pillar cover). Also take care that the interior parts do not obstruct the amplifier unit (accessory ⑮).



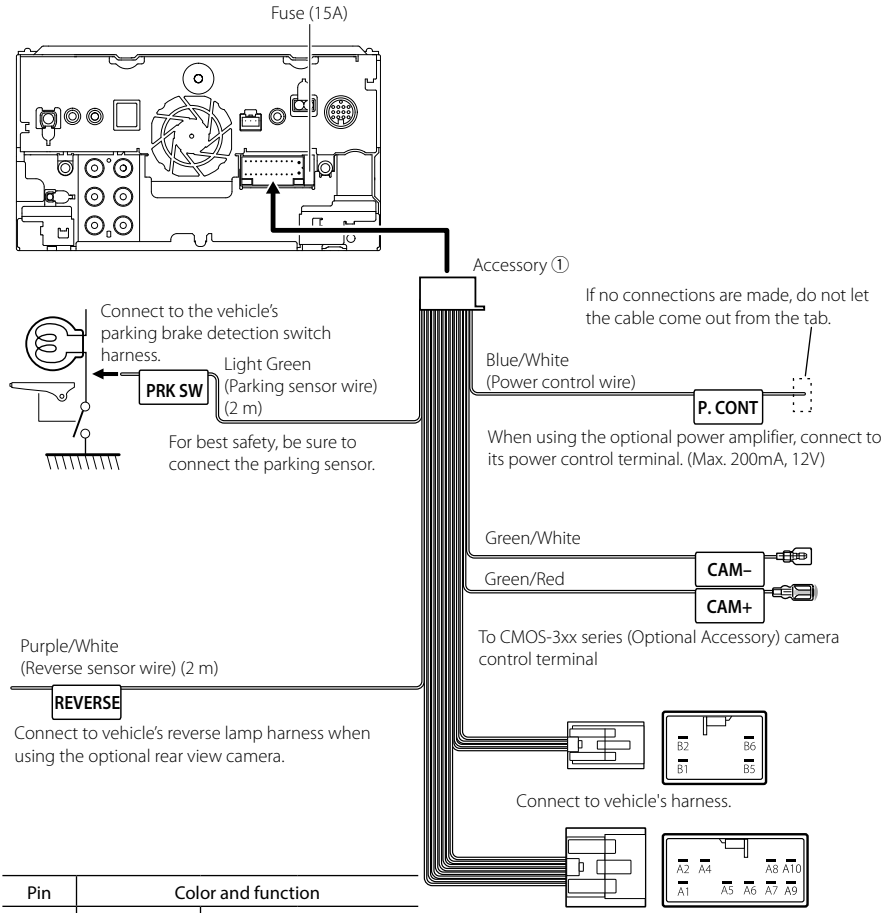
8) Wire the antenna cables.
Use cord clamper (accessory ⑫) to secure the antenna cable to the pillar in several places.
9) Reattach the front pillar cover.
10) Be sure not to damage the earth sheet and amplifier unit (accessory ⑮) when reattaching.
11) Connect the amplifier unit (accessory ⑮) to the DAB input terminal on the rear of the unit.
12) Set **Antenna Power** to **ON**. ***(P.42)***

Connecting wires to terminals

● **DDX9017DABS/ DDX9017S/ DDX9017SM/ DMX7017BTS**



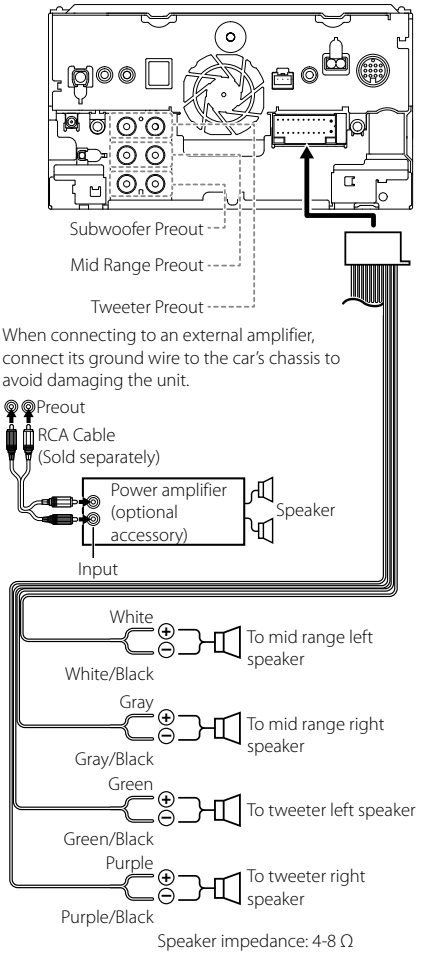
● DDX917WS/ DDX917WSM



Pin	Color and function	
A1	Orange/White	Dimmer
A2	Yellow	Battery
A4	Red	Ignition (ACC)
A5	Blue [1]	Antenna control
A6	Black	Earth (Ground) Connection
A8/ A7	White (+) / White/Black (–)	Front Left
A10/ A9	Gray (+) / Gray/Black (–)	Front Right
B2/ B1	Green (+) / Green/Black (–)	Rear Left
B6/ B5	Purple (+) / Purple/Black (–)	Rear Right

*Speaker Impedance: 4-8 Ω
[1] Max. 300mA, 12V

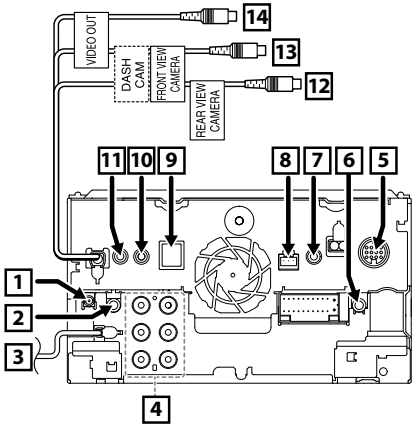
3 way speaker system setup

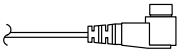
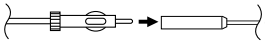
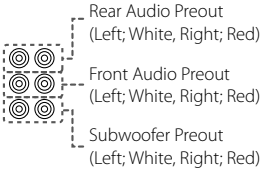


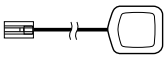
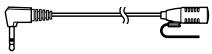
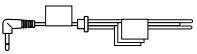
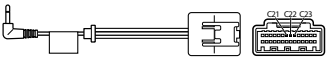
NOTE

- For speaker system setup, see ***3 way speaker system setup (P.66)***.
- For speaker setup and crossover setup, see ***Controlling Audio (P.64)***.
- 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)***.

Connecting the system and external components

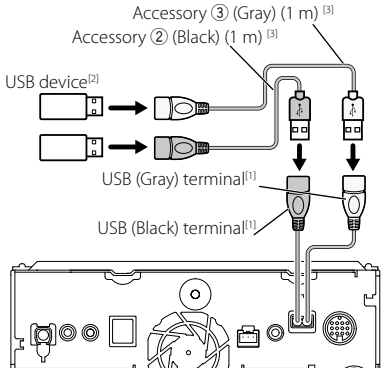


1	DAB antenna (DDX9017DABS only) 
2	AV Audio output (ø3.5 mini jack)
3	FM/AM antenna input 
4	When connecting to an external amplifier, connect its ground wire to the car's chassis to avoid damaging the unit. 
5	External navigation interface Connect a navigation unit KNA-G630 (optional accessory). (DDX9 only)
6	TV tuner remote output (DDX9 only)
7	DDX9 : AV-IN (Accessory ⑩) input DMX7 : AV-IN / Dashboard camera input (Accessory ⑩) Accessory ⑩ : Visual; Yellow, Left audio; White, Right audio; Red

8	Dashboard camera interface Connect a Dashboard Camera DRV-N520 (optional accessory). ***(P.85)***
9	Accessory ⑤: GPS Antenna 
10	Accessory ③: Bluetooth Microphone 
11	Accessory ⑪: Steering remote harness Connect to vehicle's steering remote harness. Contact your KENWOOD dealer for details. **DDX9017DABS/ DDX9017S/ DDX9017SM/ DMX7017BTS :**  **DDX917WS/ DDX917WSM :** 
12	Rear view camera input (Yellow)
13	Front view camera/ Dashboard camera input (Yellow) (DDX9 only)
14	Visual Output (Yellow)

Pin	Color and function	
C21	Light green/Red	Input 1
C22	Purple/Red	Input 2
C23	Gray/Red	Ground

Connecting a USB device



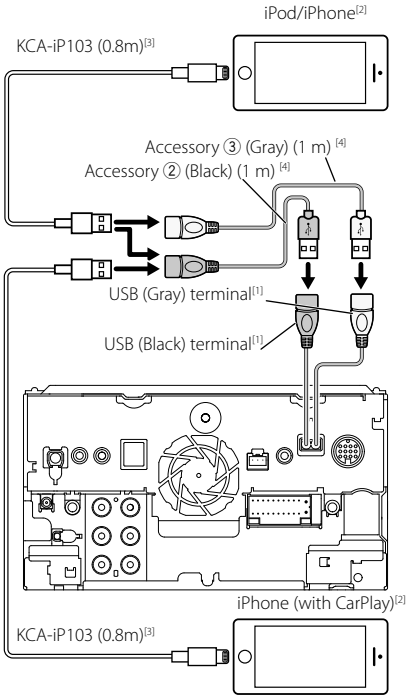
[1] USB maximum power supply current : DC 5 V ⎓ 1.5 A

[2] Sold separately / Use CA-U1EX to extend the cable if necessary. (Max 500 mA, 5V)

[3] See ***Securing the USB extension cable (P.84)***.

Connecting an iPod/iPhone

● **Lightning connector**



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

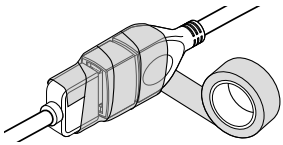
[2] Sold separately

[3] Optional accessory

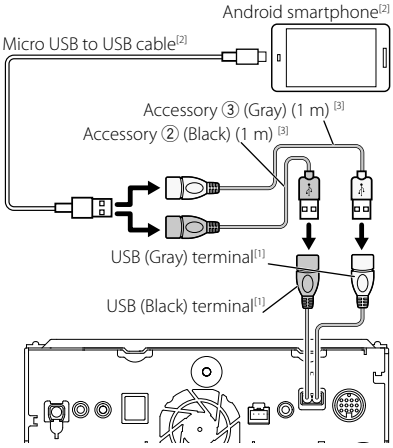
[4] See ***Securing the USB extension cable (P.84)***.

Securing the USB extension cable

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



Connecting an Android smartphone

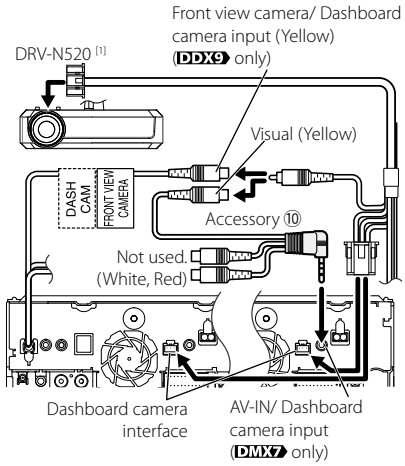


[1] USB maximum power supply current : DC 5 V ⎓ 1.5 A

[2] Sold separately

[3] See ***Securing the USB extension cable (P.84)***.

Connecting a Dashboard camera



[1] Optional accessory

Troubleshooting

Problems and Solutions

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

NOTE

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

About settings

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

Subwoofer is not set to on.

➤ Set the subwoofer to on. See ***Speaker/ X'over setup (P.64)***.

The dual zone function is enabled.

➤ Set the dual zone function to off. See ***Zone Control (P.68)***.

- **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.68)***.

- **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.68)***.

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.

Cannot perform repeat play during VCD playback.

The PBC function is enabled.

➤ Turn off the PBC function.

The specified disc does not play, but another one plays instead.
The disc is quite dirty.
➤ Clean the disc. See ***Precautions on handling discs (P.4)***.
The disc is severely scratched.
➤ Try another disc instead.

The sound skips when an audio file is being played.
The disc is scratched or dirty.
➤ Clean the disc. See ***Precautions on handling discs (P.4)***.
The recording condition is bad.
➤ Record the file again or use another disc.

Other

The Touch Sensor Tone doesn't sound.
The preout jack is being used.
➤ The Touch Sensor Tone cannot be output from the preout jack.

Error Messages

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

here is an error in the speaker wiring. Please check the connections.
Protective circuit has been activated because a speaker cord has shorted or it has come in contact with the car chassis.
➤ Wire or insulate the speaker cord as appropriate and turn the power off and on again.

Hot Error
When the internal temperature of this unit rises to 60°C or more, the protection circuit is activated and you may not be able to operate the unit.
➤ Use the unit again after reducing the temperature of the unit.

Mecha Error
The disc player is malfunctioning.
➤ Eject the disc and try inserting it again. Contact the KENWOOD dealer if this indicator continues blinking or the disc cannot be ejected.

Disc Error
An unplayable disc is inserted.
➤ Change the disc. See ***Playable Media and Files (P.87)***.

Read Error
The disc is quite dirty.
➤ Clean the disc. See ***Precautions on handling discs (P.4)***.
Disc is upside down.
➤ Load the disc with the labeled side up.

Region Code Error
The disc you wanted to play has a region code that cannot be played with this unit.
➤ See ***Region Codes in the World (P.89)*** or try another disc.

Error 07–67
The unit is not operating correctly due to some reason or other.
➤ Turn the power off and on again. If the "Error 07–67" message does not disappear, see your nearest KENWOOD dealer.

No Device (USB device)
The USB device is selected as a source although no USB device is connected.
➤ Change the source to any source other than USB/iPod. Connect a USB device, and change the source to USB again.

Disconnected (iPod, Bluetooth audio player)
The iPod/Bluetooth audio player is selected as a source although no iPod/Bluetooth audio player is connected.
➤ Change the source to any source other than iPod/Bluetooth. Connect an iPod/Bluetooth audio player, and change the source to iPod/Bluetooth again.

No Media file
The connected USB device contains no playable audio file. Media was played that doesn't have data recorded that the unit can play.
➤ See ***Connecting an Android smartphone (P.85)*** 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.

Appendix

Playable Media and Files

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

List of playable discs (DDX9)

Disc types / Standard		Support	Remark
DVD	DVD Video	○	
	DVD Audio	×	
	DVD-VR	×	
	DVD-R*1	○	• MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ MPEG1/ MPEG2/ MPEG4/ H.264/ WMV/ MKV playback • Multi-border/Multisession playback (Playback depends on authoring conditions)
	DVD-RW	○	
	DVD+R	○	
	DVD+RW	○	
	DVD-R DL (Dual layer)	○	Only video format
	DVD+R DL (Double layer)	○	
	DVD-RAM	×	
CD	Music CD*1	○	
	CD-ROM	○	• MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis playback • Multisession is supported. • Packet write is not supported.
	CD-R	○	
	CD-RW	○	
	DTS-CD	×	
	Video CD (VCD)	○	
	Super video CD	×	
	Photo CD	×	
	CD-EXTRA	△	Only music CD session can be played.
	HDCD	△	Normal music CD sound quality
	CCCD	×	
Others	Dualdisc	×	
	Super audio CD	△	Only CD layer can be played.

○ : Playback is possible.
△ : Playback is partly possible.
× : Playback is impossible.

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

■ Use of DualDisc

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

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

■ About disc format

The disc format should be the one of the following.

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

About files

The following audio, video, and picture files are supported.

■ Playable Audio files

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

NOTE

- If music of normal CD and other playback systems are recorded in the same disc, only the playback system recorded at the first setout is played.
- WMA and AAC of which is covered with DRM cannot be played.
- DSD sound is converted to PCM sound before playback.
- The EmChinks tag of DSDIFF is not supported.
- Although the audio files are complied with the standards listed above, the play may be impossible depending on the types or conditions of media or device.

■ Acceptable Video files

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

■ Limitation of structure for the file and the folder

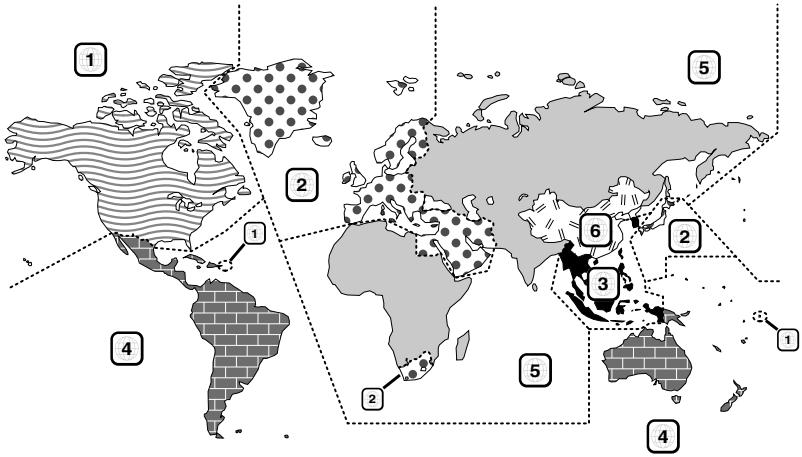
	Disc media	USB device
Maximum number of folder layers	8	8
Maximum number of files (per folder)	999	999
Maximum number of folders (per folder)	5000	9999
Maximum number of folders (per device)	5000	–

NOTE

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

Region Codes in the World

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



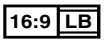
■ DVD disc marks

Indicates a region number. The discs with this mark can be played with any DVD player.

Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.

Indicates the number of subtitled languages recorded. Up to 32 languages can be recorded.

If a DVD disc has scenes shot from multiple angles, you can select a favorite angle.



Indicates the type of screen for the image. The left mark indicates that a wide image picture (16:9) is displayed on a standard TV set screen (4:3) with a black band at both the top and bottom of the screen (letter box).

■ Operation regulatory marks

With this DVD, some functions of this unit such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.

Prohibition Mark

■ Discs with limited period of use

Do not leave discs with a limited period of use in this unit. If you load an already expired disc, you may not be able to remove it from this unit.

DVD Language Codes

Code	Language
aa	Afar
ab	Abkhazian
af	Afrikaans
am	Amharic
ar	Arabic
as	Assamese
ay	Aymara
az	Azerbaijani
ba	Bashkir
be	Byelorussian
bg	Bulgarian
bh	Bihari
bi	Bislama
bn	Bengali, Bangla
bo	Tibetan
br	Breton
ca	Catalan
co	Corsican
cs	Czech
cy	Welsh
da	Danish
de	German
dz	Bhutani
el	Greek
en	English
eo	Esperanto
es	Spanish
et	Estonian
eu	Basque
fa	Persian
fi	Finnish
fj	Fiji
fo	Faroese
fr	French
fy	Frisian
ga	Irish
gd	Scots Gaelic
gl	Galician
gn	Guarani
gu	Gujarati
ha	Hausa
he	Hebrew
hi	Hindi
hr	Croatian
hu	Hungarian
hy	Armenian

Code	Language
ia	Interlingua
ie	Interlingue
ik	Inupiak
id	Indonesian
is	Icelandic
it	Italian
ja	Japanese
jv	Javanese
ka	Georgian
kk	Kazakh
kl	Greenlandic
km	Cambodian
kn	Kannada
ko	Korean
ks	Kashmiri
ku	Kurdish
ky	Kirghiz
la	Latin
lb	Luxembourgish
ln	Lingala
lo	Laotian
lt	Lithuanian
lv	Latvian, Lettish
mg	Malagasy
mi	Maori
mk	Macedonian
ml	Malayalam
mn	Mongolian
mo	Moldavian
mr	Marathi
ms	Malay
mt	Maltese
my	Burmese
na	Nauru
ne	Nepali
nl	Dutch
no	Norwegian
oc	Occitan
om	(Afan) Oromo
or	Oriya
pa	Punjabi
pl	Polish
ps	Pashto, Pushto
pt	Portuguese
qu	Quechua
rm	Rhaeto-Romance

Code	Language
rn	Kirundi
ro	Romanian
ru	Russian
rw	Kinyarwanda
sa	Sanskrit
sd	Sindhi
sg	Sangho
sh	Serbo-Croatian
si	Singhalese
sk	Slovak
sl	Slovenian
sm	Samoan
sn	Shona
so	Somali
sq	Albanian
sr	Serbian
ss	Siswati
st	Sesotho
su	Sundanese
sv	Swedish
sw	Swahili
ta	Tamil
te	Telugu
tg	Tajik
th	Thai
ti	Tigrinya
tk	Turkmen
tl	Tagalog
tn	Setswana
to	Tongan
tr	Turkish
ts	Tsonga
tt	Tatar
tw	Twi
uk	Ukrainian
ur	Urdu
uz	Uzbek
vi	Vietnamese
vo	Volapuk
wo	Wolof
xh	Xhosa
yo	Yoruba
zh	Chinese
zu	Zulu

Specifications

■ Monitor section

Picture Size
: 6.95 inches (diagonal) wide
: 156.6 mm (W) × 81.6 mm (H)

Display System
: TN LCD panel

Drive System
: TFT active matrix system

Number of Pixels
: 1,152,000 (800H x 480V x RGB)

Effective Pixels
: 99.99 %

Pixel Arrangement
: RGB striped arrangement

Back Lighting
: LED

■ DVD player section (DDX9)

D/A Converter
: 24/ 32 bit

Audio Decoder
: Linear PCM/ Dolby Digital/ MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis

Video Decoder
: MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

Wow & Flutter
: Below Measurable Limit

Frequency Response
- 96 kHz : 20 – 44,000 Hz
- 48 kHz : 20 – 22,000 Hz
- 44.1 kHz : 20 – 20,000 Hz

Total Harmonic Distortion
: 0.010 % (1 kHz)

S/N Ratio (dB)
: 90.5 dB

Dynamic Range
: 89 dB

Disc Format
: DVD-Video/ VIDEO-CD/ CD-DA

Quantifying Bit Number
: 16/ 20/ 24 bit

■ USB interface section

USB Standard
: USB 2.0 High Speed

File System
: FAT 16/ 32, exFAT, NTFS

Maximum Power Supply Current
: DC 5 V ⎓ 1.5 A × 2

D/A Converter
: 24/ 32 bit

Audio Decoder
: MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ DSD

Video Decoder
: MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

Frequency Response (DMX7)
- 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 (DMX7)
: 0.0001 % (1 kHz)

S/N Ratio (dB) (DMX7)
: 98.5 dB

Dynamic Range (DMX7)
: 89 dB

■ Miracast (Air Mirroring) section (DDX9)

Mode
: Sink

Copyright protection
: HDCP2.2

Touch Control
: UIBC

■ Wi-Fi section (DDX9)

IEEE Standard
DDX9017DABS/ DDX9017S/ DDX917WS
: 802.11a/b/g/n
DDX9017SM/ DDX917WSM: 802.11b/g/n

Frequency Range
DDX9017DABS/ DDX9017S/ DDX917WS
: Dual Band (2.4GHz / 5GHz)
DDX9017SM/ DDX917WSM: 2.4GHz

Channels
DDX9017DABS/ DDX9017S/ DDX917WS
: Auto (1-11ch), Auto (149,153,157,161ch)
DDX9017SM/ DDX917WSM: Auto (1-11ch)

Transfer rates (MAX)
- 11a: 54 Mbps (DDX9017DABS/ DDX9017S/ DDX917WS)
- 11b: 11 Mbps
- 11g: 54 Mbps
- 11n: 150 Mbps

Output Power
- 11a: 14 dBm ± 2 dB (DDX9017DABS/ DDX9017S/ DDX917WS)
- 11b: 17 dBm ± 2 dB
- 11g: 15 dBm ± 2 dB
- 11n: 14 dBm ± 2 dB

■ Bluetooth section

Technology
: Bluetooth Ver.3.0

Frequency
: 2.402 – 2.480 GHz

Output Power
: +4dBm (MAX), 0dBm (AVE), Power Class2

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

Audio Codec
: SBC/ AAC

Profile (Multi Profile support)
- HFP (V1.6) (Hands Free Profile)
- SPP (Serial Port Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (V1.5) (Audio/Video Remote Control Profile)
- PBAP (Phonebook Access Profile)

■ DSP section

Graphics equalizer
Band: 13 Band
Frequency (BAND1 – 13)
: 62.5/ 100/ 160/ 250/ 400/ 630/ 1k/ 1.6k/ 2.5k/ 4k/ 6.3k/ 10k/ 16k Hz

Gain
: -9/-8/-7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7/8/9 dB

2Way X'Over
High pass filter
Frequency: Through, 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz
Slope: -6/-12/-18/-24 dB/Oct.
Low pass filter
Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz, Through
Slope: -6/-12/-18/-24 dB/Oct.

3Way X'Over
High pass filter
Frequency: 1k/ 1.6k/ 2.5k/ 4k/ 5k/ 6.3k/ 8k/ 10k/ 12.5k Hz
Slope: -6/-12 dB/Oct.
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB
Band pass filter
Frequency: Through, 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz
1k/ 1.6k/ 2.5k/ 4k/ 5k/ 6.3k/ 8k/ 10k/ 12.5k Hz , Through
Slope: -6/-12 dB/Oct.
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB
Low pass filter
Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz, Through
Slope: -6/-12 dB/Oct.
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

Position
Front / Rear /Subwoofer Delay
: 0 – 6.1 m (0.01 m Step)
Gain
: -8 – 0 dB

Subwoofer level
: -50 – +10 dB

■ Digital Radio section (DDX9017DABS)

Frequency Range
L-BAND: 1452.960 – 1490.624 (MHz)
BAND III: 174.928 – 239.200 (MHz)

Sensitivity
: -100 dBm

S/N Ratio (dB)
: 90 dB

■ Digital Antenna Connector section (DDX9017DABS)

Connector type
: SMB

Output Voltage (11 – 16V)
: 14.4 V

Maximum Current
: < 100 mA

■ FM tuner section

Frequency Range (step)
: 87.5 MHz – 108.0 MHz (50 kHz)

Usable Sensitivity (S/N : 26 dB)
: 9.3 dBf (0.8 µV/75 Ω)

Quieting Sensitivity (S/N : 46 dB)
: 15.2 dBf (1.6 µV/75 Ω)

Frequency Response
: 30 Hz – 15 kHz

S/N Ratio (dB)
: 75 dB (MONO)

Selectivity (± 400 kHz)
: Over 80 dB

Stereo Separation
: 45 dB (1 kHz)

■ AM tuner section

Frequency Range (step)
DDX9017DABS/ DDX917WS/ DMX7017BTS Region 4
: 531 – 1701 kHz (9 kHz)
DDX9017S/ DDX917WS Region 3
: 531 – 1611 kHz (9 kHz)
DDX9017SM/ DDX917WSM Region 2
: 531 – 1602 kHz (9 kHz)

Usable Sensitivity
DDX9017DABS/ DDX917WS/ DMX7017BTS Region 4
: 28 dBμ
DDX9017S/ DDX917WS Region 3: 25μV
DDX9017SM/ DDX917WSM Region 2: 25μV

■ 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 jacks)
: 1 Vp-p/ 75 Ω

Audio Output Level (mini jack)
: 1.2 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)
DDX9
: 5 V/ 10 kΩ
DMX7
: 4 V/ 10 kΩ

Preout Impedance
DDX9
: ≤ 300 Ω
DMX7
: ≤ 600 Ω

Speaker Impedance
: 4 – 8 Ω

■ General

Operating Voltage
: 14.4 V (10.5 – 16 V allowable)

Maximum Current Consumption
: 15 A

Installation Dimensions (W × H × D)
DDX9
: 178 × 100 × 160 mm
DMX7
: 178 × 100 × 155 mm

Operational Temperature Range
: -10 °C – +60 °C

Weight
DDX9
: 2.4 kg
DMX7
: 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 subject to change without notice.

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■ The marking of products using lasers

CLASS 1
LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

■ Eski Elektrik ve Elektronik Ekipmanların İmha Edilmesi Hakkında Bilgi (ayrı atık toplama sistemlerini kullanan ülkeleri için uygulanabilir)

Sembollü (üzerinde çarpı işareti olan çöp kutusu) ürünler ev atıkları olarak atılamaz.
Eski elektrik ve elektronik ekipmanlar, bu ürünleri ve ürün atıklarını geri dönüştürebilecek bir tesiste değerlendirilmelidir. Yaşadığınız bölgeye en yakın geri dönüşüm tesisinin yerini öğrenmek için yerel makamlara müracaat edin. Uygun geri dönüşüm ve atık imha yöntemi sağlığımız ve çevremiz üzerindeki zararlı etkileri önlerken kaynakların korunmasına da yardımcı olacaktır.

■ **For DDX9017SM/ DDX917WSM**

CE

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 NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

English

Hereby, JVC KENWOOD declares that the radio equipment DDX9017SM/ DDX917WSM is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

Türkçe

Burada, JVC KENWOOD DDX9017SM/ DDX917WSM radyo ekipmanının 2014/53/AB Direktifine uygun olduğunu bildirir. AB uyumluluk deklarasyonunun tam metni aşağıdaki internet adresinde mevcuttur.

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

■ For Turkey

Bu ürün 28300 sayılı Resmi Gazete'de yayımlanan Atik Elektrikli ve Elektronik Eşyalarin Kontrolü Yönetmeliğe uygun olarak üretilmiştir.