KENWOOD

DDX6016BT DDX6016BTM **DDX4016BT**

DDX416BT DDX416BTM **DDX316**

DDX316M DDX616WBT DDX616WBTM

MONITOR WITH DVD RECEIVER **INSTRUCTION MANUAL**

JVCKENWOOD Corporation

This instruction manual is used to describe models listed below. Model availability and features (functions) may differ depending on the country and sales area.

- Region 2 (DVD Region Code 2 area)
- Region 3 (DVD Region Code 3 area)
- Region 4 (DVD Region Code 4 area)
- Region 5 (DVD Region Code 5 area)

















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How to read this manual:

- Illustrations of DDX6016BT Region 3 are mainly used for explanation. The displays 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 displays or panels.
- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For operations using the remote controller (RC-DV340: supplied only for DDX6016BT Region 3/DDX6016BT Region 5/DDX6016BTM/DDX416BT/DDX416BTM/DDX316/DDX316M/DDX616WBT Region 3/DDX616WBTM), see page 57.
- <> indicates the various screens/menus/operations/settings that appear on the touch panel.
- [1 indicates the buttons on the touch panel.
- Indication language: English indications are used for the purpose of explanation. You can select the indication language from the **<Setup>** menu. (Page 56)
- Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from http://www.kenwood.com/cs/ce/.

BEFORE USE

IMPORTANT

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe WARNINGS and CAUTIONS in this manual. Please keep the manual in a safe and accessible place for future reference.

- DO NOT install any unit or wire any cable in a location where:
 - it may obstruct the steering wheel and gearshift lever operations.
 - it may obstruct the operation of safety devices such as air bags.
 - it may obstruct visibility.
- DO NOT operate the unit while driving.
 If you need to operate the unit while driving, be sure to look around carefully.
- The driver must not watch the monitor while driving.

The marking of products using lasers



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.

For Kazakhstan (DDX6016BTM/DDX416BTM/DDX316M/DDX616WBTM)



Дата изготовления (месяц/год) находится на этикетке устройства.

BEFORE USE

For DDX6016BTM/DDX416BTM/DDX616WBTM

(6

Declaration of Conformity with regard to the EMC Directive

Declaration of Conformity with regard to the R&TTE Directive 1999/5/EC

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

Manufacturer:

JVC KENWOOD Corporation 3-12 Moriya-cho, 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 this unit "DDX6016BTM/DDX416BTM/DDX616WBTM" is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Türkce

Bu vesileyle JVC KENWOOD, "DDX6016BTM/ DDX416BTM/DDX616WBTM" ünitesinin,1999/5/ EC Direktifinin başlıca gereksinimleri ve diğer ilgili hükümleri ile uyumlu olduğunu beyan eder.

For DDX316M



Declaration of Conformity with regard to the EMC Directive

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

Manufacturer:

JVC KENWOOD Corporation 3-12 Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

EU Representative:

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

For Turkey

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

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.

⚠ Cautions on the monitor:

- The monitor built into this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with a sharp tip.
 Touch the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).

- · When the temperature is very cold or very hot...
 - Chemical changes occur inside, causing malfunction.
 - Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

For safety...

- Do not raise the volume level too much, as this will make driving dangerous by blocking outside sounds, and may cause hearing loss.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

☐ How to reset your unit

If the unit fails to operate properly, press the reset button.

DDX6016BT/DDX6016BTM



DDX4016BT/DDX416BT/DDX416BTM/DDX316/ DDX316M



INITIAL SETTINGS

Initial setup

When you power on the unit for the first time or reset the unit, the initial setting screen appears.

- You can also change the settings on the **Setup**> screen. (Page 54)
- Perform the initial settings.
 - Press [\] repeatedly to display more items.



(Page 55)

<Language> (Page 56)

<Demonstration> Activate or deactivate the display demonstration. Select the text language used for on-screen information.

> Set <GUI Language> to display the operation buttons and menu items in the selected language ([Local]) or English ([English]).

Adjust the panel angle.

<Anale>* (Page 9)

<iPod Setup> (Page 23)

<Front Camera> (Page 32)

Select the connection method of iPod/iPhone. Configure the settings to display the picture from the connected front view camera.

<Rear Camera>

Configure the settings to display the picture from (Page 32) the connected rear view

camera.

llser Change the display design.

Customize> (Page 50)

Finish the procedure.

• Press [\] repeatedly to change the page on the <Initial Setup> screen.



The Home screen is displayed.

Only for DDX6016BT/DDX6016BTM/DDX616WBT/DDX616WBTM.

Setting the security function

Registering a security code

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

Display the Home screen. On the monitor panel:

DDX6016BT/DDX6016BTM

DDX4016BT/DDX416BT/ DDX416BTM/DDX316/ DDX316M

DDX616WBT/DDX616WBTM



Display the **<System>** setting screen.



- Display the **<Security Code Set>** screen.
 - Press [\] repeatedly to change the page on the <Svstem> menu screen.



- To clear the registered security code, perform steps 1 and 2, then press [CLR] in <Security Code>.
- Enter a four-digit number (1), then confirm the entry (2).



- Press [Clear] to delete the last entry.
- Press [Cancel] to cancel the setting.
- Press [X] to return to the current source control screen.

INITIAL SETTINGS

Repeat step 4 to confirm your security code

Now, your security code is registered.

- When the unit has been reset or disconnected from the battery, you are required to enter the security code. Enter the correct security code, then press [Enter].
- ☐ Activating the security function (only for DDX6016BT/DDX6016BTM/ DDX4016BT/DDX416BT/DDX416BTM/ DDX316/DDX316M)

You can activate the security function to protect your receiver system against theft.

- Display the **<System>** setting screen. On the Home screen:
 - Press [repeatedly to change the page on the <Svstem> menu screen.





The security indicator on the monitor panel flashes when the vehicle ignition is off.

To deactivate the security function: Select [OFF] for <SI>

Clock settings

Display the Home screen. On the monitor panel: DDX6016BT/DDX6016BTM



DDX4016BT/DDX416BT/ DDX416BTM/DDX316/ DDX316M



DDX616WBT/DDX616WBTM



Display the **<Clock>** setting screen.





- You can also display the **<Clock>** setting screen by touching the clock area on the Home screen
- Set the clock time.



Synchronizes the clock time with <NAV>*

the connected navigation unit.

<Radio Data Synchronizes the clock time with System> FM Radio Data System.

<OFF> Sets the clock manually. (See

below.)

When selecting < OFF>:

Adjust the hour (1), then adjust the minute (2).

• Press [Reset] to set the minute to "00".



Finish the procedure.



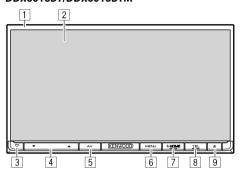
Appears only when a navigation unit is connected.

Component names and functions

⚠ Caution on the volume setting:

Digital devices produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

DDX6016BT/DDX6016BTM



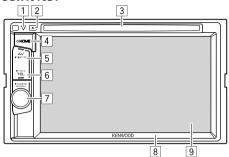
- 1 Monitor panel*
- 2 Screen (touch panel)
- 3 Reset button/Power indicator/Security indicator
 - Resets the unit. (Page 3)
 - · Lights up while the unit is turned on.
 - Flashes when the security function is activated. (Page 5)
- 4 VOLUME ▼/▲ buttons

Adjusts the audio volume. (Page 9)

- 5 AV/DISP OFF button
 - Displays the current source control screen. (Press)
 - When the navigation box is connected, the screen is switched between the current source and the navigation screen. (Page 36)
 - Turns off the screen. (Hold) (Page 10)
- 6 MENU/CAMERA button
 - Pops up the short-cut menu. (Press) (Page 13)
 - Displays the picture from the connected camera. (Hold) (Page 33)
- 7 U HOME button
 - Displays the Home screen. (Press) (Page 11)
 - Turns on the power. (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)

- 8 TEL/VOICE button
 - Displays the phone control screen. (Press) (Page 41)
 - Activates voice dialing. (Hold) (Page 42)
- 9 **▲** (Eject) button
 - Ejects the disc. (Tilts the monitor panel fully.)
 - · Opens/closes the monitor panel.
- * You can change the color of the buttons on the monitor panel. (Page 50)

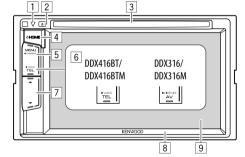
DDX4016BT



- Reset button/Power indicator/Security indicator
 - Resets the unit. (Page 3)
 - Lights up while the unit is turned on.
 - Flashes when the security function is activated. (Page 5)
- 2 ▲ (Eject) button Eiects the disc.
- 3 Loading slot
- 4 (b) HOME button
 - Displays the Home screen, (Press) (Page 11)
 - Turns on the power. (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)
- 5 AV/DISP OFF button
 - Displays the current source control screen. (Press)
 - When the navigation box is connected. the screen is switched between the current source and the navigation screen. (Page 36)
 - Turns off the screen. (Hold) (Page 10)

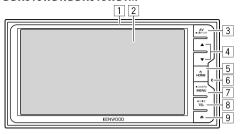
- 6 TEL VOICE button
 - Displays the phone control screen. (Press) (Page 41)
 - Activates voice dialing. (Hold) (Page 42)
- Volume/MENU/CAMERA knob
 - Adjusts the audio volume. (Turn) (Page 9)
 - Pops up the short-cut menu. (Press) (Page 13)
 - Displays the picture from the connected camera. (Hold) (Page 33)
- 8 Monitor panel*
- Screen (touch panel)
- * You can change the color of the buttons on the monitor panel. (Page 50)

DDX416BT/DDX416BTM/DDX316/DDX316M



- Reset button/Power indicator/Security indicator
 - Resets the unit. (Page 3)
 - · Lights up while the unit is turned on.
 - Flashes when the security function is activated. (Page 5)
- 2 ▲ (Eject) button Eiects the disc.
- 3 Loading slot
- 4 (b) HOME button
 - Displays the Home screen. (Press) (Page 11)
 - Turns on the power, (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)
- 5 MFNU/CAMFRA button
 - Pops up the short-cut menu. (Press) (Page 13)
 - · Displays the picture from the connected camera. (Hold) (Page 33)
- 6 For DDX416BT/DDX416BTM: TEL/VOICE button
 - Displays the phone control screen. (Press) (Page 41)
 - Activates voice dialing. (Hold) (Page 42)
 - For DDX316/DDX316M: AV/DISP OFF button
 - Displays the current source screen. (Press)
 - When the navigation box is connected, the screen is switched between the current source and the navigation screen. (Page 36)
 - Turns off the screen. (Page 10)
- 7 Volume **▼**/**▲** buttons Adjusts the audio volume. (Page 9)
- 8 Monitor panel*
- 9 Screen (touch panel)
- * You can change the color of the buttons on the monitor panel. (Page 50)

DDX616WBT/DDX616WBTM



- 1 Monitor panel*
- 2 Screen (touch panel)
- 3 AV/DISP OFF button
 - Displays the current source control screen. (Press)
 - When the navigation box is connected, the screen is switched between the current source and the navigation screen. (Page 36)
 - Turns off the screen. (Hold) (Page 10)

4 Volume **△/**▼ buttons

Adjusts the audio volume. (Page 9)

- 5 U HOME button
 - Displays the Home screen. (Press) (Page 11)
 - Turns on the power. (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)
- 6 Reset button

Resets the unit. (Page 3)

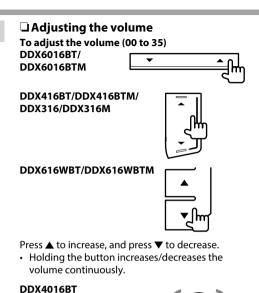
- 7 MENU/CAMERA button
 - Pops up the short-cut menu. (Press) (Page 13)
 - Displays the picture from the connected camera. (Hold) (Page 33)

8 TEL/VOICE button

- Displays the phone control screen. (Press) (Page 41)
- Activates voice dialing. (Hold) (Page 42)
- 9 ▲ (Eject) button
 - Ejects the disc. (Tilts the monitor panel fully.)
 - Opens/closes the monitor panel.
- * You can change the color of the buttons on the monitor panel. (Page 50)

Common operations ☐ Turning on the power DDX6016BT/DDX6016BTM **ФНОМЕ** DDX4016BT/DDX416BT/ DDX416BTM/DDX316/ ⊎НОМЕ DDX316M DDX616WBT/DDX616WBTM ψ HOME ☐ Turning off the power DDX6016BT/DDX6016BTM **ФНОМЕ** (Hold) DDX4016BT/DDX416BT/ DDX416BTM/DDX316/ **UHOME** DDX316M

DDX616WBT/DDX616WBTM



Turn to the right to increase, and turn to the left to decrease.

- ☐ Adjusting the panel angle (only for DDX6016BT/DDX6016BTM/ DDX616WBT/DDX616WBTM)
- Display the **<Angle Adjust>** screen. On the Home screen:
 - Press [repeatedly to change the page on the <Display> menu screen.







2 Select an angle (0 - 6).



• To set the current position as the power off position, select [Memory].

☐ Putting the unit in standby

1 Display all playback sources and items. On the Home screen:



2



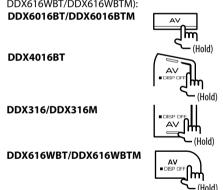


☐ Turning off the screen

On the pop-up short-cut menu (Page 13): Display the pop-up short-cut menu by pressing MENU on the monitor panel, then select [**Display OFF**].



On the monitor panel (only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX316/DDX316M/DDX616WBT/DDX616WBTM):



To turn on the screen: Press and the hold the same button, or touch the display.

Common screen operations

☐ Common screen descriptions

You can display other screens at any time to change the source, show the information, or change the settings, etc.

Source control screen

Performs source playback operations.

• The operation buttons and information displayed vary depending on the selected source.



Common operating buttons:

- Displays/hides short-cut source selection buttons. (Page 13)
- 2 Displays the other operation button window.*
- * Does not appear when there are no other operation buttons other than those currently shown on the source control screen.

Home screen

Displays the source control screen and settings screen.

• You can arrange the items to display on the Home screen. (Page 51)



Common operating buttons:

- 1 Displays all playback sources and items. (Page 12)
- 2 Displays the source currently played back.
- 3 Displays the **<Setup>** screen. (See the right column.)
- 4 Changes the playback source. (Page 12)
- 5 Displays the **<Clock>** setting screen. (Page 5)

<Setup> screen

Changes the detailed settings. (Page 54)

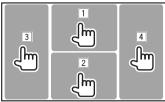




Common operating buttons:

- 1 Selects the menu category.
- 2 Changes the page.
- Closes the current setting screen and returns to the current source control screen.
- 4 Returns to the previous screen.

☐ Touch screen operations



1 Displays the video control menu while playing a video.



2 Displays the source control screen while playing a video.



- The operation buttons disappear when the screen is touched or when no operation is done for about 5 seconds.
- 3 Goes to the previous chapter/track.*
- 4 Goes to the next chapter/track.*
- * Not available for video from an external component.

Selecting the playback source

On the Home screen:







- You can change the page to display more items by pressing [<]/[>].
 - The current page is indicated by the page indicator at the bottom of the screen.



[NAV]*1 Displays the navigation screen

when a navigation unit is connected. (Page 36)

[DISC] Plays a disc. (Page 14)
[USB] Plays files on a USB device.

(Page 19)

[BT Audio]*2 Plays a Bluetooth audio player.

(Page 43)

[AV-IN]*3 Switches to an external

component connected to the iPod/AV-IN input terminal.

(Page 35)

[STANDBY] Puts the unit in standby.

(Page 10)

[APPs] Switches to the App screen from

the connected iPod touch/iPhone/ Android/BlackBerry device.

(Page 25)

[PANDORA]*4 Switches to the Pandora

broadcast. (Page 26)

[iPod] Plays an iPod/iPhone. (Page 23) [Android™] Plays an Android device.

(Page 21)

[TEL]*2

Displays the phone control screen.

(Page 41)

[Radio] Switches to the radio broadcast.

(Page 28)

To return to the Home screen



- *1 When no navigation unit is connected, "No Navigation" appears.
- *2 Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM.
- *3 Selectable only when <iPod Setup> is set to [USB 1 Wirel. (Page 23)
- *4 Only for DDX6016BT Region 4/DDX4016BT/DDX616WBT Region 4.

☐ Selecting the playback source on the Home screen



 You can change the items to display on the Home screen. (Page 51)

Using short-cut buttons

☐ Using short-cut source selection **buttons**

While displaying the source control screen, you can use the short-cut buttons to go to the items on the Home screen indicated below.



To display the short-cut source selection buttons On the source control screen:

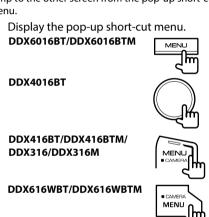


To hide the short-cut buttons



☐ Using the pop-up short-cut menu

While displaying the source control screen, you can jump to the other screen from the pop-up short-cut menu.



2 Select an item to jump to.



Displays the picture adjustment [Screen

Adjustment] screen. (Page 49) [Display OFF] Turns off the screen.

(Page 10)

[Camera] Displays the picture from the

connected camera. (Page 33)

[SETUP] Displays the **<Setup>** screen.

(Page 54)

Displays the current source [Current

Sourcel control screen.

To close the pop-up menu: Touch the screen anywhere other than the pop-up short-cut menu.

DISCS

Playing a disc

- If a disc does not have a disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.
- For playable disc types/file types, see page 67.

☐ Inserting a disc

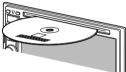
Insert a disc with the label side facing up.

DDX6016BT/ DDX6016BTM

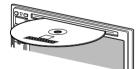








DDX416BT/ DDX416BTM/ DDX316/DDX316M



DDX616WBT/ DDX616WBTM





The source changes to "DISC" and playback starts.

- The IN indicator lights up while a disc is inserted.
- If "\one " appears on the screen, the unit cannot accept the operation you have tried to do.
 - In some cases, without showing "\(\infty\)," operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.
- ☐ Ejecting a disc DDX6016BT/DDX6016BTM



DDX4016BT/DDX416BT/ DDX416BTM/DDX316/DDX316M



DDX616WBT/DDX616WBTM

- When removing a disc, pull it horizontally.
- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.

Closing the monitor panel (only for DDX6016BT/DDX6016BTM/DDX616WBT/DDX616WBTM)

After removing the disc, press \triangle on the monitor panel. The monitor panel closes.

Playback operations

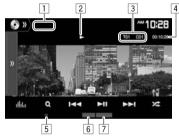
When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



• To change settings for video playback, see page 49.

Indications and buttons on the source control screen

For video playback



Playback information

- The information displayed on the screen differs depending on the type of disc/file being played back.
- Media type
- 2 Playback status
- 3 Current playback item information (title no./ chapter no./folder no./file no./track no.)
- 4 Playing time
- 5 IN indicator
- 6 Playback mode (Page 17)
- 7 File type

DISCS

Operation buttons

 Available buttons on the screen and operations differ depending on the type of disc/file being played back.

1 / > Displays the other operation button window.

> • To hide the window, press [**(**()]. Displays the **<Equalizer>** screen.

[.....] (Page 46)

[Q] Displays the folder/track list.

(Page 16)

[I◄◄] [▶►I] • Selects a chapter/track. (Press)

Reverse/forward search, (Hold)

 Plays in slow-motion during pause. (Hold)

Starts/pauses playback. [**▶**||1]

Selects Random playback mode. (Page 17)

Selects a folder.

Selects Repeat playback mode. $[\Omega]$

(Page 17)

Stops playback.

[MODE] Changes the settings for disc playback

on the <DISC Mode> screen.

(Page 18)

• To display all available operation buttons, press [) to display the other operation button window.

For audio playback



Playback information

- The information displayed on the screen differs depending on the type of disc/file being played back.
- 1 Media type
- 2 Track/file information
 - Pressing I<1 scrolls the text if not all of the text is shown.
- 3 Playing time
- 4 IN indicator
- 5 Playback status
- Playback mode (Page 17)
- 7 File type
- 8 Current playback item information (folder no./file no./track no.)

Operation buttons

 Available buttons on the screen and operations differ depending on the type of disc/file being played back.

[[[Displays the other operation button window.

• To hide the window, press [\(\lambda\)].

[.....] Displays the **<Equalizer>** screen. (Page 46)

[Q] Displays the folder/track list. (Page 16)

 Selects a track. (Press)

Reverse/forward search, (Hold)

Starts/pauses playback.

Stops playback.

Selects Random playback mode.

(Page 17)

Selects a folder.

Selects Repeat playback mode.

(Page 17)

Changes the settings for disc playback [MODE]

on the <DISC Mode> screen.

(Page 18)

• To display all available operation buttons, press [) to display the other operation button window.

☐ Selecting a folder/track on the list



- Select the folder (1), then the item in the selected folder (2).
 - Repeat the procedure until you select the desired track.



- · You can change the page to display more items by pressing $[\Lambda]/[V]$.
- Press [] to return to the root folder.
- Press [] to return to the upper layer.
- If you want to play all tracks in the folder, press [▶] on the right of the desired folder.

☐ Video menu operations

You can display the video menu screen during video playback.

• The operation buttons disappear when the screen is touched or when no operation is done for about 5 seconds



For video playback except VCD



 Available buttons on the screen and operations differ depending on the type of disc/file being played back.

(MENU) [T MENU] [Highlight]

Displays the disc menu (DVD). Displays the disc menu (DVD). Switches to the direct disc menu mode. Touch the target item to select.

• To restore the screen, press $[\leftarrow]$

[CUR]

Displays the menu/scene selection screen.

- [▲] [▼] [◀] [▶]: Selects an item.
- · [Enter]: Confirms the selection.
- [Return]: Returns to the previous screen.

[ZOOM] Displays the picture size selection screen. (Page 50)

[Aspect] Selects the aspect ratio. (Page 49)

[PictureAdjust] Displays the picture adjustment screen. (Page 49)

[Audio] Selects the audio type. [Subtitle] Selects the subtitle type. [Angle]

Selects the view angle.

DISCS

For VCD



Displays the disc menu. [MENU]

Selects the audio channel (ST: [Audio]

stereo, L: left, R: right).

Displays/hides the direct [Direct] selection buttons. (See the right

column.)

[Return] Displays the previous screen or

menu.

[ZOOM] Displays the picture size

selection screen. (Page 50)

[Aspect] Selects the aspect ratio.

(Page 49)

Displays the picture adjustment [PictureAdjust]

screen. (Page 49)

To select a track directly on a VCD

 When playing a VCD with PBC activated, stop playback to deactivate the PBC function, then use the direct selecting buttons to select a track number.



• When you enter a wrong number, press [DIR/CLR] to delete the last entry.

☐ Selecting playback mode To select Repeat playback mode





To select Random playback mode



- The location of the buttons differ depending on the type of disc/file being played back.
 - When [] is not displayed, display the other operation button window by pressing [).
- Available playback modes differ depending on the type of disc/file being played back.
- You cannot activate the repeat mode and the random mode at the same time.
- Each time you press the button, the playback mode changes. (The corresponding indicator liahts up.)
- Available items differ depending on the type of disc/file being played back.

C-REP Repeats current chapter.

T-REP Repeats current title/program.

RFP Repeats current track.

FO-REP Repeats all tracks of the current

folder.

FO-RDM Randomly plays all tracks of the

current folder, then tracks of the

next folders.

RDM Randomly plays all tracks.

To cancel Repeat/Random playback: Press the button repeatedly until the indicator disappears.

DISCS

Settings for disc playback—<DISC Mode>





2



 Available items shown on the <DISC Mode> screen differ depending on the type of disc/file being played back.

□ Setting items	
<menu Language></menu 	Select the initial disc menu language. (Initial: English) (Page 69)
<subtitle Language></subtitle 	Select the initial subtitle language or turn subtitles off (Off). (Initial: English) (Page 69)
<audio Language></audio 	Select the initial audio language. (Initial: English) (Page 69)
<dynamic Range Control></dynamic 	You can change the dynamic range while playing using Dolby Digital software. • Wide: Select this to enjoy a powerful sound at a low volume level with its full dynamic range. • Normal: Select this to reduce the dynamic range a little. • Dialog (Initial): Select this to reproduce movie dialog more clearly.

<down mix=""></down>	 When playing back a multi-channel disc, this setting affects the signals reproduced through the front and/or rear speakers. Dolby Surround: Select this to enjoy multi-channel surround sound by connecting an amplifier compatible with Dolby Surround. Stereo (initial): Normally select this.
<screen Ratio></screen 	Select the monitor type to watch a wide screen picture on the external monitor.
	16:9 (Initial) 4:3 LB 4:3 PS
<file type="">*</file>	Select the playback file type when a disc contains different types of files. • Audio: Plays back audio files. • Still Image: Plays back picture files. • Video: Plays back video files. • Audio&Video (initial): Plays back

* For playable file types, see page 67. If the disc contains no files of the selected type, the existing files are played in the following priority: audio, video, then still picture. You can change these settings only while playback is stopped.

audio files and video files.

USB

Connecting a USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player etc. to the unit.

- For details about connecting USB devices, see page 64.
- You cannot connect a computer or portable HDD to the USB input terminal.
- For playable file types and notes on using USB devices, see page 68.

When a USB device is connected...

The source changes to "USB" and playback starts.

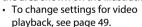
 All tracks in the USB device will be played repeatedly until you change the source.

To disconnect the USB device safely:

Press $[\triangle]$, then disconnect the USB device after "No Device" appears.

Playback operations

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.





☐ Indications and buttons on the source control screen



Playback information

- The information displayed on the screen differs depending on the type of file being played back.
- Jacket picture (Shown while playing if the file has tag data that includes the jacket picture)
- 2 Track/file information
 - Pressing [<] scrolls the text if not all of the text is shown.
- 3 Playing time
- 4 Playback status
- 5 Playback mode (See the right column.)
- 6 File type
- Current playback item information (folder no./file no.)

Operation buttons

 Available buttons on the screen and operations differ depending on the type of file being played back.

Displays the other operation button window.

To hide the window, press [⟨⟨].

Displays the **Equalizer** screen. (Page 46)

[Q]

Displays the folder/track list. (Page 20)

- Selects a track. (Press)
- Reverse/forward search. (Hold)

[**▶**||]

Starts/pauses playback.

Selects random playback mode.*1 *2

- mod
 - **FO-RDM**: Randomly plays all tracks/ files in the folder.
 - RDM: Randomly plays all tracks/files.



Selects a folder.

Selects repeat playback mode.*1 *2
 REP: Repeats the current track/file.

- FO-REP: Repeats all tracks/files in the current folder.
- [≜] [MODE]

Disconnects the USB device safely.

[MODE]

Changes the settings for USB playback on the **<USB Mode>** screen. (Page 20)

- To display all available operation buttons, press
 [) I to display the other operation button window.
- *1 To cancel random or repeat mode, press the button repeatedly until the indicator disappears.
- *2 You cannot activate the repeat mode and the random mode at the same time.

☐ Settings for USB playback—<USB Mode>

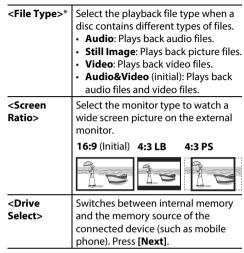
1





2





For playable files, see page 68. If the USB device contains no files
of the selected type, the existing files are played in the following
priority: audio. video. then still picture.

☐ Selecting a folder/track on the list

- **2** Select the folder (①), then the item in the selected folder (②).
 - Repeat the procedure until you select the desired track.



- You can change the page to display more items by pressing []/[].
- Press [] to return to the root folder.
- Press [] to return to the upper layer.
- If you want to play all tracks in the folder, press [>] on the right of the desired folder.

Android

Preparation

☐ Installing KENWOOD Music Play

Install the Android™ application KENWOOD Music Play on your Android device beforehand.

• When a compatible Android device is connected. "Press [VIEW] to install KENWOOD MUSIC PLAY APP" is shown on the Android device. Follow the instructions to install the application. You can also install the latest version of the KENWOOD Music Play application on your Android device before connecting.

About KENWOOD Music Play

- This unit supports the Android[™] application KENWOOD Music Play.
- When you use KENWOOD Music Play, you can search for audio files by Genre, Artist, Album, Playlist, and Song.
- KENWOOD Music Play is available on the following web site: <www.kenwood.com/cs/ce/>

☐ Connecting an Android device

Connect an Android device with a cable.

 For details about connecting Android devices, see page 64.

Compatible Android device

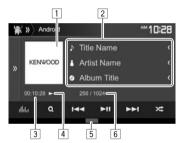
- This unit supports Android OS 4.1 and above.
- Some Android devices (with OS 4.1 and above) may not fully support Android Open Accessory (AOA) 2.0.
- If the Android device supports both mass storage class device and AOA 2.0, this unit always plays back via AOA 2.0 as priority.
- For more information and the latest compatible list, see: <www.kenwood.com/cs/ce/>

☐ Starting playback

- Start KENWOOD Music Play on your Android device
- Select "Android™" as the source. (Page 12)

Playback operations

Indications and buttons on the source control screen



Playback information

- 1 Artwork (Shown if the song contains artwork)
- 2 Track information
 - Pressing I<1 scrolls the text if not all of the text is shown.
- 3 Playing time
- Playback status
- Playback mode (See the right column.)
- 6 Track no./Total track number

Operation buttons

Displays the other operation button [[[window.

• To hide the window, press [\(\lambda\)].

[.....1 Displays the **<Equalizer>** screen. (Page 46)

[0]

Displays the track list. (Page 22)

- Selects a track. (Press)
 - · Reverse/forward search. (Hold)

[MODE]

Starts/pauses playback. Selects random playback mode.*

- X: Randomly plays all tracks.
 - Album: Randomly plays all tracks in the current album.
- Selects repeat playback mode.
 - - All: Repeats all tracks.
 - Changes the settings for Android

playback on the < Android Mode> screen. (Page 22)

- To display all available operation buttons, press 1) to display the other operation button window.
- * To cancel random mode, press the button repeatedly until the indicator disappears.

Android

☐ Selecting a track from the menu

1



- 2 Select a category (1), then a desired item (2).
 - Select an item in each layer until you reach and select the desired file.
 - You can change the page to display more items by pressing []/[].
 - Press [] to return to the top layer.
 - Press [] to return to the upper layer.



☐ Settings for playback on the Android device—<Android Mode>







<artwork></artwork>	Shows/hides artwork of the Android device.
<android Setup></android 	BROWSE MODE: Controls from the unit (using the KENWOOD Music Play application). HAND MODE: Controls other media player applications from the Android device (without using the KENWOOD Music Play application). You can play/pause or skip files from the unit.

iPod/iPhone

Preparation

☐ Connecting iPod/iPhone

- For details about connecting iPod/iPhone, see page 64.
- For playable iPod/iPhone types, see page 68.

Connect your iPod/iPhone according to your purpose or the type of iPod/iPhone.

- To listen to music: Use USB Audio cable for iPod/ iPhone.
 - For Lightning connector models: KCA-iP103 (optional accessory)
 - For 30-pin connector models: KCA-iP102 (optional accessory)
- · To watch video and listen to music (only for 30-pin connector models): Use USB Audio and Video cable for iPod/iPhone—KCA-iP202 (optional accessorv).
 - For Lightning connector models: You cannot watch video with KCA-iP202.

☐ Selecting the connection method of iPod/iPhone

- Putting the unit in standby. (page 10)
- Display the **<System>** setting screen. On the Home screen:







[USB 1 Wire]

Select this when the iPod/ iPhone is connected using KCA-iP102 or KCA-iP103 (optional accessory).

[USB+AV-IN]

Select this when the iPod/ iPhone is connected using KCA-iP202 (optional accessory).

☐ Selecting preference settings for iPod/ iPhone playback—<iPod Mode>

□ » iPod **~~10:28** KENWOOD Artist Name Album Title 256 / 1024





<Artwork>

Shows/hides artwork of iPod.

iPod/iPhone

Playback operations

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



 To change settings for video playback, see page 49.

☐ Indications and buttons on the source control screen



Playback information

- 1 Artwork (Shown if the song contains artwork)
- 2 Song/video information
 - Pressing [<] scrolls the text if not all of the text is shown.
- 3 Playing time
- 4 Playback status
- 5 Playback mode (See the right column.)
- 6 File type
- 7 Track no./Total track number

Operation buttons

[MODE]

[) Displays the other operation button window.

To hide the window, press [⟨⟨].

Displays the **Equalizer** screen. (Page 46)

Displays the audio/video file list. (See the right column.)

[I◄◄] [▶▶I] • Selects a track. (Press)

• Reverse/forward search. (Hold)

[▶**||**] Starts/pauses playback.

Selects random playback mode.*

Functions the same as Shuffle Songs.

 Album: Functions the same as Shuffle Albums.

[Selects repeat playback mode.

 All: Functions the same as Repeat All.

Changes the settings for iPod/iPhone playback on the **iPod Mode**> screen. (Page 23)

- To display all available operation buttons, press
 [) to display the other operation button window.
- To cancel random mode, press the button repeatedly until the indicator disappears.

Selecting an audio/video file from the menu

- Select the menu (1): audio or 21: video) (1), a category (2), then a desired item (3).
 - Select an item in each layer until you reach and select the desired file.
 - You can change the page to display more items by pressing []/[].
 - Press [] to return to the top layer.
 - Press [] to return to the upper layer.
 - If you want to play all tracks in the item, press
 on the right of the desired item.

Audio menu:



Video menu:



 Available categories differ depending on the type of your iPod/iPhone.

APPs

You can use an App of the connected iPod touch/ iPhone/Android/BlackBerry on this unit.

• For Apps you can use on this unit, visit http://www.kenwood.com/cs/ce/>.

Preparation

- Connect the iPod touch/iPhone/Android/ BlackBerry.
 - · For Android/BlackBerry (only for DDX6016BT/DDX6016BTM/DDX4016BT/ DDX416RT/DDX416RTM/DDX616WRT/ DDX616WBTM): Connect the Android/ BlackBerry device via Bluetooth. (Page 37)
 - For iPod touch/iPhone: Connect iPod touch/ iPhone with a cable. (Page 64)
 - Be sure to select the appropriate connection method of iPod touch/iPhone on <iPod Setup>. (Page 23)
 - You cannot watch video when connecting a Lightning connector model.
- 2 Select the iPod touch/iPhone/Android/ BlackBerry device to use on the <APP **Setup>** screen. (Page 45)

When connecting the device for the first time, the setup screen (for connection, etc.) appears. Follow the procedure on the setup screen to configure the settings.

Using an App

When the operation buttons are not displayed on the screen, touch the screen to show them.

• To change settings for video playback, see page 49.

☐ Playback operations

- Start the App on your iPod touch/iPhone/ Android/BlackBerry.
- Select "Apps" as the source. (Page 12)

☐ Operation buttons on the source control screen



[[[Displays the other operation button window.

To hide the window, press [⟨⟨].

[.....] Displays the **<Equalizer>** screen. (Page 46)

Selects an audio/video file. Reverse/forward search.

Starts/pauses playback.

Starts playback. **[▶]**

Pauses playback. [0°/5]*

Switches the device between iPod touch/iPhone connected with a cable and Android/BlackBerry device connected via Bluetooth.

- To display all available operation buttons, press 1) to display the other operation button window.
- You can operate some functions of the App on the touch panel.
- You can also play back the audio (for iPod touch/ iPhone/Android/Blackberry device) and video (for iPod touch/iPhone) on the stated devices itself. instead of the unit.
- Appears only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416RTM/DDX616WRT/DDX616WRTM

Pandora® (Only for DDX6016BT Region 4/DDX4016BT/DDX616WBT Region 4)

You can stream Pandora from iPod touch/iPhone, Android or BlackBerry devices.

 Install the latest version of the Pandora application on your iPod touch/iPhone/Android/ BlackBerry.

Preparation

- 1 Connect the device.
 - For Android/BlackBerry: Connect the Android/BlackBerry device via Bluetooth. (Page 37)
 - For iPod touch/iPhone: Connect iPod touch/ iPhone with a cable. (Page 64)
 - Be sure to select the appropriate connection method of iPod touch/iPhone on <iPod Setup>. (Page 23)
- 2 Select the device to use on the <APP Settings> screen. (Page 45)
- 3 Select "PANDORA" as the source. (Page 12)

The Pandora application is started.

 If the device selection screen is displayed, select the device to use. (Page 45)

Playback operations

You can operate Pandora using the remote controller*. Only playing, pausing, and skipping are available.

☐ Indications and buttons on the source control screen



Playback information

- 1 Picture data
- 2 Track information
 - Pressing [<] scrolls the text if not all of the text is shown.
- 3 Playing time
- 4 Playback status

Operation buttons

Displays the other operation button window.

To hide the window, press [\(\lambda\)].
 Displays the \(<\mathref{Equalizer}\) screen.

[iiii] Displays the **<Equalizer>** screen. (Page 46)

[O] Displays the list selection screen.

(Page 27)

Thumbs down to the current track and

skips to the next track.

[🖦] Registers the current track as a

favorite.

[>II] Starts/pauses playback.

[►►I] Skips the current track.

 Not available when the Pandora skip reaches its limit.

Adds the current artist to the Station List.

Adds the current track to the Station List.

[♬✔] Bookmarks the current track.

Switches the device between iPod touch/iPhone connected with a cable and Android/BlackBerry device connected via Bluetooth

To display all available operation buttons, press
 ()) to display the other operation button window.

* Purchase KNA-RCDV331 separately.

Pandora®

☐ Selecting a station from the list

Display the list selection screen.



Select the list type.



<Station List>

Selects from the station names (Station List).

<Genre List>

Selects from the genre names (Genre List).

Select a station from the list.



[Shuffle]

Plays all the songs in the registered stations randomly.

[By Date]

Sorts the list in reverse chronological order.

[By Name] Sorts the list in alphabetical order.

- · You can change the page to display more items by pressing $[\Lambda]/[V]$.
- The **x** indicator appears on the left of the item when Shuffle is activated. (All songs in the registered stations are played randomly.)
- The **!!!** indicator appears on the right of the item when the station is shared.

On the Genre List

Select a genre (1), then a station (2).



- You can change the page to display more items by pressing $[\Lambda]/[V]$.
- The selected station is added to the Station List.

Requirements for 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 iTunes App Store to find and install the most recent version.)
- · Connect iPod touch/iPhone to this unit with KCA-iP202, KCA-iP102 or KCA-iP103 (optional accessory).

Android™

- Visit Google play and search for "Pandora" to install.
- Bluetooth must be built in and the following profiles must be supported.
 - SPP (Serial Port Profile)
 - A2DP (Advanced Audio Distribution Profile)

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)

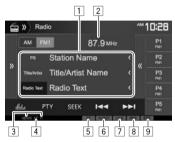
NOTE

- Ensure you are logged in to your smartphone application. If you do not have a Pandora account. you can create one for free from your smartphone or at www.pandora.com.
- · 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, contact Pandora at pandora-support@pandora.com
- Establish an Internet connection using LTE, 3G. EDGE, or WiFi.

RADIO

Listening to the radio

☐ Indications and buttons on the source control screen



Radio reception information

- 1 Text information
 - Pressing [<] scrolls the text if not all of the text is shown.
 - Pressing [Radio Text] switches the information between Radio Text, Radio Text Plus, and PTY code.
- 2 The station frequency currently tuned in
- 3 Standby reception indicators (NEWS/TI)
- 4 AF indicator
- 5 ST/MONO indicator
 - The ST indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.
- 6 Seek mode
- 7 LO.S indicator (Page 29)
- 8 RDS indicator: Lights up when receiving a Radio Data System station.
- 9 EON indicator: Lights up when a Radio Data System station is sending EON signals.

Operation buttons

[P1] - [P5]

[.....]

Displays the other operation button window.

• To hide the window, press [**(**()].

[AM] Selects the AM band.
[FM] Selects the FM band.

FM1→FM2→FM3-

Displays the preset station window. (Page 30)

• To hide the window, press [))].

Selects a stored station. (Press)Stores the current station. (Hold)

Displays the **Equalizer**> screen.

(Page 46)

[PTY]* Enters PTY search mode. (Page 30)
[SEEK] Changes the seek mode.

- AUTO1: Auto Search
 - AUTO2: Tunes in stations in the memory one after another.
 - · MANU: Manual Search

 $[\bowtie \blacktriangleleft]$ [$\blacktriangleright \triangleright i$] Searches for a station.

 The search method differs according to the selected seek mode. (See the left column.)

[AME 1]* Presets stations automatically. (Hold)

(Page 29)

[MONO]* Activates/deactivates monaural mode for better FM reception. (Stereo effect

will be lost.)

• The MONO indicator lights up while monaural mode is activated.

[TI]* Activates/deactivates TI standby reception mode. (Page 30)

[MODE]* Changes the settings for radio

reception on the **<Radio Mode>** screen. (Pages 29 and 31)

screen. (Pages 29 and 31)

- To display all available operation buttons, press
 ()) to display the other operation button window.
- * Appears only when FM is selected as the source.

RADIO

☐ Tuning in FM stations only with strong signals—Local Seek

1 Display the < Radio Mode > screen.





Radio Mode

AF Regional

NEWS

Local

Auto TP Seek

Anntena Control

The unit tunes in only to stations with sufficient signal strength. The LO.S indicator lights up.

To deactivate Local Seek: Press [OFF].

☐ Setting the antenna control

You can store the antenna automatically when the source is changed from the radio to another source.

- The antenna is extended regardless of the setting when the source is the radio.
- 1 Display the <Radio Mode> screen. (See the left column.)



- [ON] Select this to keep the antenna extended even when the source is not the radio.
- **[OFF]** Select this to store the antenna automatically.

Presetting stations

☐ Storing stations in the memory

You can preset 5 stations for each band.

Automatic presetting—AME (Auto Memory)





The local stations with the strongest signals are found and stored automatically.

Manual presetting

- 1 Tune in to a station you want to preset. (Page 28)
- 2 Select a preset number.



The station selected in step 1 is stored.

☐ Selecting a preset station

1 Select the band (①), then display the preset station window (②).



- You can also select a preset station by pressing [P1] – [P5].
- 2 Select a preset station.



- Pressing [<] scrolls the text if not all of the text is shown.
- To hide the window list, press [))].

FM Radio Data System features

☐ Searching for FM Radio Data System programs—PTY Search

You can search for your favorite programs being broadcast by selecting the PTY code.

1



2 Select a PTY code.



 You can change the page to display more items by pressing []/[].
 PTY Search starts.

If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

 Only English/Spanish/French/German/Dutch/ Portuguese are available for the text language here. If another language has been selected in <Language> (Page 56), the text language is set to English.

☐ Activating/deactivating TI/News Standby Reception

TI Standby Reception





The unit is in standby to switch to Traffic Information (TI) if available. (The TI indicator lights up in white.)

 If the TI indicator is lit in orange, tune into another station providing Radio Data System signals.

To deactivate TI Standby Reception: Press **[TI]**. (The TI indicator turns off.)

 The volume adjustment for Traffic Information is automatically memorized. The next time the unit switches to Traffic Information, the volume is set to the previous level.

RADIO

News Standby Reception

Display the < Radio Mode > screen. (Page 29)



[90min]

[00min] - Activate News Standby Reception (the NEWS indicator lights up). Select the period of time to disable interruption.

Deactivate the function. [OFF]

• The volume adjustment while receiving News is automatically memorized. The next time the unit switches to News, the volume is set to the previous level.

☐ Tracing the same program—Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM Radio Data System station of the same network, possibly broadcasting the same program with stronger signals.

• When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting

Display the < Radio Mode > screen. (Page 29)

2



[AF]

Switch to another station. The program may differ from the one currently received (the AF indicator lights up).

[AF Reg]

Switch to another station broadcasting the same program (the

AF indicator lights up).

[OFF] Deactivate the function.

• The RDS indicator lights up when the Network-Tracking Reception is activated and an FM Radio Data System station is found.

☐ Automatic TI station seek—Auto TP Seek

When traffic information station reception is poor. the unit automatically searches for another station that can be received better.

To activate Auto TP Seek

Display the < Radio Mode > screen. (Page 29)



To deactivate Auto TP Seek: Press [OFF].

Using camera

- To connect a camera, see page 65.
- To use a rear view camera, a REVERSE lead connection is required. (Pages 62 and 63)

☐ Settings for the camera Rear view camera setting

1 Display the <**Input**> settings screen. On the Home screen:





2 Display the <Rear Camera> screen.



3



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

[OFF] Select this when no camera is connected

Front view camera settings

- 1 Display the <input> screen. (See the left column.)
- 2 Display the < Front Camera > screen.



3



<Front Camera>

- ON: Activates the front view camera. Select this to use the front view camera.
- **OFF**: Select this when no camera is connected.

<Reverse Image>

- ON: Displays the picture from the front view camera horizontally reversed.
- OFF: Displays the picture from the front view camera as it is.

☐ Displaying the camera screen To display the picture from the rear view camera

The rear view screen is displayed when you shift the gear to the reverse (R) position.



• To remove the caution message, touch the screen.

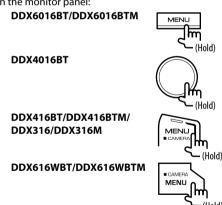
To display the picture from the connected camera manually

• When < Front Camera > is set to [ON], the picture from the front view camera is displayed. When < Front Camera > is set to [OFF], the picture from the rear view camera is displayed. (Page 32)

On the pop-up short-cut menu (Page 13): Display the pop-up short-cut menu by pressing MENU on the monitor panel, then select [Camera].



On the monitor panel:



To switch the screen between the front view camera and the rear view camera



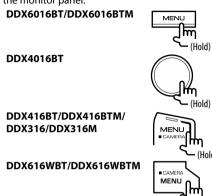
· Each time you touch the area shown above, the screen is switched between the rear view screen and the front view screen.

To exit the camera screen

On the camera screen: Touch the area shown below.



On the monitor panel:



To adjust the picture

While the camera screen is displayed...



· The picture adjustment menu is displayed. (Page 49)

To close the picture adjustment menu, touch the same area again.

☐ Using the parking guidelines on the rear view screen

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

Displaying the parking guidelines

1 Display the <Input> settings screen.
On the Home screen:



2 Display the <Rear Camera> screen.



Rear Camera

Rear Camera Interruption

Parking Guidelines

Guidelines Setup

To deactivate: Select [OFF] for <Parking Guidelines>.

 You can also display the parking guidelines by touching the area shown below. To close the parking guidelines, touch the same area again.



Adjusting the parking guidelines

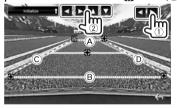
Adjust the parking guidelines according to the size of the car, parking space and so on.

- 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 Display the **<Rear Camera>** screen. (See the far left column.)
- **2** Display the parking guidelines adjustment screen.



3 Adjust the parking guidelines by selecting the mark (1), then adjusting the position of the selected mark (2).



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

 Press and hold [Initialize] for 2 seconds to set all the marks to the initial default position.

Using external audio/video players—AV-IN

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



• To change settings for video playback, see page 49.

☐ Starting playback

Preparation:

"AV-IN" cannot be selected when <iPod Setup> is set to [USB+AV-IN]. Be sure to select [USB 1 Wire] for <iPod Setup> beforehand. (Page 23)

- 1 Connect an external component to the iPod/AV-IN input terminal. (Page 65)
- 2 Select "AV-IN" as the source. (Page 12)
- Turn on the connected component and start playing the source.



☐ Changing the AV-IN name

You can change the AV-IN name displayed on the "AV-IN" source control screen.

Display the **<VIDEO Mode>** screen.



Select an AV-IN name.



· This setting does not affect the source name displayed on the Home screen.

Using the external navigation unit

You can connect a navigation unit (KNA-G630: optional accessory) to the NAV input terminal so that you can view the navigation screen. (Page 65)

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

☐ Viewing the navigation screen

On the Home screen:



- Only for DDX6016BT/DDX6016BTM/DDX4016BT/ DDX316/DDX316M/DDX616WBT/DDX616WBTM: You can also display the navigation screen by pressing AV on the monitor panel while listening to another source.
- While the navigation screen is displayed, the touch panel operations are available only for navigation.
- The aspect ratio of the navigation screen is fixed to <FULL> regardless of the <Aspect> setting (Page 49).

When receiving a call during navigation guidance (Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/DDX416BTM/DDX616WBT/DDX616WBTM)

The screen is switched automatically. To return to the navigation screen, press [A].



To exit the navigation screen

On the monitor panel (only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX316/DDX316M/DDX616WBT/DDX616WBTM):

Press AV on the monitor panel.

On the pop-up short-cut menu (Page 13): Display the pop-up short-cut menu by pressing MENU on the monitor panel, then select [Current Source].



☐ Settings for the navigation unit

1 Display the **<Input>** setting screen. On the Home screen:



2 Display the < Navigation > screen.



3



<Guidance>

Select which front speakers are used for the navigation

guidance.

<Volume>

Adjust the volume of the navigation guidance. (0 to 35)

<NAV Mute>

Select **[ON]** to attenuate the sound coming out of speakers other than the front speakers during navigation guidance.

 To cancel the attenuation, select [OFF].

<NAV Setup>

Press [Enter] to display the setup screen for the navigation unit. See the instruction manual supplied for the navigation unit.

BLUETOOTH (Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/DDX416BTM/DDX616WBT/DDX616WBTM)

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.

Notes

- 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 mobile phones compatible with Phone book Access Profile (PBAP)

If your mobile phone supports PBAP, you can display the following items on the touch panel screen when the mobile phone is connected.

- Phone book
- Dialed calls, received calls, and missed calls (up) to 10 entries in total)

Connecting Bluetooth devices

Registering a new Bluetooth device

When you connect a Bluetooth device to the unit for the first time, pair the unit and the device. Pairing allows Bluetooth devices to communicate with each other.

- The pairing method differs depending on the Bluetooth version of the device.
 - For devices with Bluetooth 2.1: You can pair the device and the unit using SSP (Secure Simple Pairing) which only requires confirmation.
 - For devices with Bluetooth 2.0: You need to enter a PIN code both on the device and unit for pairing.
- Once the connection is established, it is registered in the unit even if you reset the unit. Up to 10 devices can be registered in total.
- Two devices for Bluetooth phone and one for Bluetooth audio can be connected at a time.
- To use the Bluetooth function, you need to turn on the Bluetooth function of the device.
- To use the registered device, you need to connect the device to the unit. (Page 39)

Auto pairing

When < Auto Pairing > is set to [ON], iOS devices (such as iPhone) are automatically paired when connected via USB. (Page 44)

Pairing a Bluetooth device using SSP (for Bluetooth 2.1)

When the Bluetooth device is compatible with Bluetooth 2.1, a pairing request is sent from an available device.

- Search for the unit ("DDX****") from your Bluetooth device.
- **2** Confirm the request both on the device and the unit.





• Press [Cancel] to reject the request.

Pairing a Bluetooth device using a PIN code (for Bluetooth 2.0)

1 Display the **<Bluetooth Setup>** screen. On the Home screen:



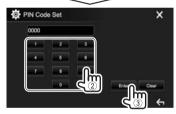


 You can also display the <Bluetooth Setup> screen by pressing [] on the phone control screen. (Page 41)



- 2 Change the PIN code.
 - If you wish to skip changing the PIN code, go to step 3.
 - The PIN code is initially set to "0000".
 - The maximum number of digits in the PIN code is 15.





- Press [Clear] to delete the last entry.
- **3** Search for the unit ("**DDX******") from your Bluetooth device.

- **4** Select the unit ("**DDX******") on your Bluetooth device.
 - If a PIN code is required, enter "0000" (initial).

When pairing is complete, the device is listed on the <Paired Device List>.



 To use the paired device, connect the device on the <Paired Device List>. (Page 39)

☐ Connecting/disconnecting a registered Bluetooth device

Two devices can be connected simultaneously.

Display the **<Bluetooth Setup>** screen. (Page 38)



Select the device you want to connect (1), then press [Connection] (2).



4 Select [ON] (to connect) or [OFF] (to disconnect) for the target (1), then display the <Paired Device List> screen (2).



Mobile phone

Audio device

Device for using Apps

- · The status is shown as follows:
 - "Connecting": Connection is in progress.
 - "Connected": A connection has been established.
 - "Connect Ready": A connection can be established.
 - "Disconnecting": Disconnection is in progress.
 - "Disconnected": No connection is established.
- Connect the selected device.



 When a Bluetooth mobile phone is connected. the signal strength and battery level are displayed when the information is acquired from the device.

☐ Deleting a registered Bluetooth device

Display the **<Bluetooth Setup>** screen. (Page 38)



Select a device to delete (1), then press [Remove] (2).



A confirmation message appears. Press [Yes].

Using a Bluetooth mobile phone

☐ Receiving a call

When a call comes in...



- · Call information is displayed if acquired.
- Phone operation is not available while the picture from the connected camera is displayed. (Page 32)

To reject a call



When <Auto Response> is set to [ON] (Page 44) The unit answers incoming calls automatically.

When receiving a call during navigation guidance The screen is switched automatically. To return to the navigation screen, press [].



☐ Ending a call

While talking...



☐ Adjusting the volume of calls/earpiece/ microphone

While talking...



- You can adjust the volume level between -10 to 10 (initial: -4).
- Use the monitor panel to adjust the call/earpiece volume. (Page 9)

Switching between handsfree mode and phone mode

While talking...



Each time you press the button, the talking method is switched (+ handsfree mode / + phone mode).

☐ Adjusting the noise reduction/echo cancel level

While talking...



- To adjust the noise reduction volume (between -5 to 5, initial: 0): Adjust <NR LEVEL>.
- To adjust the echo volume (between –5 to 5, initial: 0): Adjust <EC LEVEL>.

☐ Sending text during a call

You can send text during a call using the DTMF (Dual Tone Multi Frequency) function.

While talking...





☐ Switching between two connected devices

When 2 devices are connected, you can change the device to use.

While using a Bluetooth mobile phone, select the device you want to use.



· The active device is highlighted.

☐ Making a call

Display the phone control screen. On the Home screen:



- You can also display the phone control screen by pressing TEL on the monitor panel.
- 2 Select a method to make a call.



- 1 From the call history*
- 2 From the phone book*
- 3 From the preset list
 - To preset, see page 43.
- 4 Direct number entry
- 5 Voice dialing
- You can display the <Bluetooth Setup> screen by pressing [...].

* When the mobile phone is not compatible with Phone Book Access Profile (PBAP), the call history and the phone book are not displayed.

From the call history/phone book/preset list

1



From the call history (missed calls/ received calls/dialed calls)

[📳] From the phone book

[★] From the preset list

2 Select the target (1), then make a call (2).



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

• To use the A to Z search in the phone book:



- 2 Select the initial.
 - If the initial character is a number, press
 [1,2,3...] and then select the number.



3 Select a phone number from the list.



To display other phone numbers:
 When the phone book list is displayed, you can
 switch between phone numbers if several phone
 numbers are registered for the same contact (up
 to 10 phone numbers per contact).

1 Switch the phone number.



- The phone number switches each time [>] is pressed.
- 2 Select a phone number to call.



Direct number entry

You can enter up to 31 numbers.



- Press [X] to delete the last entry.
- Press and hold [0/+] to add "+" to the phone number.

Voice dialing

- Available only when the connected mobile phone has a voice recognition system.
- 1 Activate voice dialing.
 On the phone control screen:



- When iPhone is connected, Siri is activated.
- You can also activate voice dialing by holding TEL on the monitor panel.
- **2** Say the name of the person you want to call.
 - If the unit cannot find the target, the following screen appears. Press [Start], then say the name again.



To cancel voice dialing: Press [Cancel].

☐ Presetting phone numbers

You can preset up to 5 phone numbers.

- Display the phone control screen. (Page 41)
- Select phone book or call history.



Select a phone number to preset.



The preset list is displayed.

Select a preset number to store into.



 To display the preset list, press [★] on the phone control screen. (Page 41)

Using the Bluetooth audio player

- To register a new device, see page 37.
- To connect/disconnect a device, see page 39.

☐ Indications and buttons on the source control screen



• The operation buttons, indications and information displayed on the screen differ depending on the connected device.

Playback information

- Tag data (current track title/artist name/album title)*1
 - Pressing [<] scrolls the text if not all of the text is shown.
- 2 The signal strength and battery level (Appear only when the information is acquired from the device.)
- Playing time*1
- Playback status*1

Operation buttons

[[Displays the other operation button window.

• To hide the window, press [\(\lambda\)]. Displays the **<Equalizer>** screen. [.....]

(Page 46)

Displays the track list. (Page 44) [**Q**]

Selects a track (Press)

Reverse/forward search.*1 (Hold)

Starts playback. **[**▶] [11] Pauses playback.

Selects random playback mode.*2 Selects repeat playback mode.*2 Displays the <Bluetooth Setup> [101

screen. (Page 44)

- To display all available operation buttons, press to display the other operation button window.
- *1 Available only for devices compatible with AVRCP 1.3.
- *2 The random and repeat functions vary depending on the Bluetooth audio device.

☐ Selecting an audio file from the menu



2 Select a category (1), then a desired item (2).





- Select an item in each layer until you reach and select the desired file.
- You can change the page to display more items by pressing []/[].
- Press [to return to the upper layer.
- If you want to play all tracks in the folder, press [] on the right of the desired folder.

Settings for Bluetooth devices

You can change various settings for using Bluetooth devices on the **<Bluetooth Setup>** screen.

1 Display the **<Bluetooth Setup>** screen. On the Home screen:







- You can also display the <Bluetooth Setup> screen by pressing [] on the phone control screen (Page 41) or [] on the "BT Audio" source control screen (Page 43).
- **2** Configure the Bluetooth settings.



☐ Setting items

<paired device="" list=""></paired>	Press [Enter] to show the list of registered devices. You can connect a device or delete registered devices. (Page 39)
<pin code=""></pin>	Changes the PIN code of the unit. (Page 38)
<device Name></device 	Shows the device name to be shown on the Bluetooth device — DDX ****.

<device Address></device 	Shows the device address of the unit.
<auto Connect></auto 	ON (Initial): A connection is automatically established with the last connected Bluetooth device when the unit is turned on. OFF: Cancels.
<bluetooth HF/Audio></bluetooth 	Select the speakers used for Bluetooth (both phone and audio player). Front Only: Front speakers only. All (Initial): All speakers.
<auto Response></auto 	ON: The unit answers the incoming calls automatically after 5 seconds. OFF (Initial): The unit does not answer the calls automatically. Answer the calls manually.
<auto Pairing></auto 	ON (Initial): Establishes pairing automatically with the connected iOS device (such as iPhone) even if the Bluetooth function is deactivated on the device. (Auto pairing may not work for some devices depending on the iOS version.) OFF: Cancels.
<initialize></initialize>	Hold [Enter] to reset all settings you have made for using Bluetooth mobile phones and Bluetooth audio players.

Settings for using applications of iPod touch/iPhone/Android/ BlackBerry (Only for DDX6016BT/ DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM)

Before using applications of iPod touch /iPhone/ Android/BlackBerry such as Pandora, select the device to use.

When connecting the device for first time, the setup screen (for connection, etc.) appears. Follow the procedure on the setup screen to configure the settings.

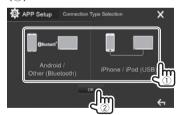
Preparation:

- For Android/BlackBerry: Connect the Android/ BlackBerry device via Bluetooth. (Page 37)
- · For iPod touch/iPhone:
 - Connect iPod touch/iPhone with a cable. (Page 64)
- Select the connection method of iPod touch/ iPhone on <iPod Setup>. (Page 23)

Display the **<APP Setup>** screen. On the Home screen:



- If [Enter] for <APP Setup> cannot be selected, put the unit in standby. (Page 10)
- Select the device type (1), then press [OK] (2).



· When selecting [iPhone/iPod (USB)], the setting is complete.

3 When selecting [Android/Other (Bluetooth)] as the device type: Select the Android/BlackBerry device (1), then press **[OK]** to connect (2).



• You can change the page to display more items by pressing $[\Lambda]/[V]$.

Sound adjustment

☐ Using the sound equalization

- The adjustments are memorized for each source until you adjust the sound again. If the source is a disc, the adjustments are stored for each of the following categories.
 - DVD/VCD
 - CD
 - DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC
- You cannot adjust the sound when the unit is in standby.

Selecting a preset sound mode

1 Display the <Equalizer> screen. On the Home screen:





2 Select a sound mode.



- You can change the page to display more items by pressing []/[].
- You can also display the < Equalizer> screen by pressing [::::::] on the source control screen.

Storing your own adjustments—Adjusting the sound precisely

- 1 Select a sound mode. (See the left column.)
- Select a band and adjust the level of the selected band.
 - You can adjust the level by dragging the slider or using [▲]/[▼].
 - Repeat this step to adjust the level of other bands.



The adjustments are stored and **<User>** is activated.

3 Adjust the sound.



< Q factor > Adjusts the width of the

frequency.

<Bass EXT> Activates ([ON])/deactivates

([OFF]) bass.

<SW LEVEL> Adjusts subwoofer level.*

- To apply the adjusted equalizer to all playback sources, press [ALL SRC], then press [OK] to confirm.
- To clear the adjustment, press [EQ INT].
- * Not adjustable when **<None>** is selected for subwoofer on the **<Speaker Select>** screen. (Page 47)

- ☐ Setting the speakers—car type, speaker size and crossover frequency
- Display the **<Car Setting>** screen. On the Home screen:



Select a car type (1), select the location of the speakers (2), then display the <Speaker Select> screen (3).

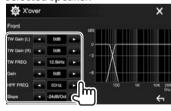
Time Alignment



Select the speaker type (1), select the size of the selected speaker (2), then display the $\langle X'over \rangle$ screen (3).



- When a speaker is not connected, select <None>.
- When setting the front speakers, also select the speaker size for <Tweeter>.
- 4 Adjust the crossover frequency of the selected speaker.



<TW Gain (L)>/ Adjusts the output volume of the tweeter (left/right).*1*2 <TW Gain (R)>

<TW FREO> Adjusts the crossover frequency for the tweeter.*1*2

<Gain> Adjusts the output volume of

the selected speaker. <HPF FREO> Adjusts the crossover

frequency for the front or rear

speakers (high pass filter).*3

Adjusts the crossover for the <LPF FREO>

subwoofer (low pass filter).*4

Adjusts the crossover slope.*5 <Slope> Selects the phase for the <Phase>

subwoofer.*4

- *1 Appears only when the front speakers are selected.
- *2 Adjustable only when **<Tweeter>** is set to **<Small>**. <Middle>, or <Large> on the <Speaker Select> screen.
- *3 Appears only when the front or rear speakers are selected.
- *4 Appears only when the subwoofer is selected.
- *5 Not adjustable when < HPF FREQ > or < LPF FREQ > is set to <Through>.

☐ Adjusting the Digital Time Alignment (DTA)

Make fine adjustments to the delay time of the speaker output to create a more suitable environment for your vehicle.

1 Display the **Time Alignment**> screen. On the Home screen:





2 Select the listening position (<All>, <Front L>, <Front R> or <Front All>).



3 Select an item to make an adjustment.



[Distance]

Adjusts the Digital Time Alignment (DTA) value.

[Gain]

Adjusts the output volume of the selected speaker.

4 Adjust each speaker setting.



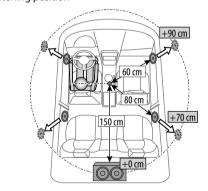
- To determine the adjustment value, see the right column.
- To initialize the setting value, press [Initialize].

Determining the value for <Position DTA> adjustment

If you specify the distance from the center of the currently set listening position to every speaker, the delay time will be automatically computed and set.

- ① Determine the center of the currently set listening position as the reference point.
- ② Measure the distances from the reference point to the speakers.
- (3) Calculate the differences between the distance of the furthest speaker and other speakers.
- 4 Set the DTA value calculated in step 3 for individual speakers.
- 5 Adjust gain for individual speakers.

Example: When **<Front All>** is selected as the listening position



Adjustment for video playback

☐ Adjusting the picture

You can adjust the picture quality.

1 Display the picture adjustment screen. On the source control screen:





2 Select [DIM ON] (dimmer on) or [DIM OFF] (dimmer off) (①), then adjust the picture (②).



<Bright> Adjusts the brightness. (-15 to +15)

<Contrast> Adjusts the contrast. (–10 to +10)

<Black> Adjusts the blackness. (–10 to

+10)

<Color> Adjusts the color. (-10 to +10)
<Tint> Adjusts the tint. (-10 to +10)
<Sharpness> Adjusts the sharpness. (-2 to

 You can also display the picture adjustment screen by selecting [Screen Adjustment] on the pop-up short-cut menu (Page 13).

☐ Changing the aspect ratio

You can change the aspect ratio for video playback.

1 Display the aspect ratio selection screen. On the source control screen:





2 Select the aspect ratio.



<**FULL>*** For 16:9 original pictures

4:3 signal 16:9 signal

JUST> For viewing 4:3 pictures naturally on the wide screen

4:3 signal 16:9 signal

<Normal>* For 4:3 original pictures

4:3 signal 16:9 signal

< Auto > For "DISC"/"USB" only: The aspect ratio is automatically selected to match the incoming

signals.

* While DivX is played back with **Screen Ratio**> set to [16:9] (Page 18 for discs/Page 20 for USB), the aspect ratio may not set correctly.

☐ Zooming the picture

You can zoom the picture (**<FULL>**, **<Zoom1>** to **<Zoom3>**).

- When <Aspect> is set to <JUST> or <Auto>
 (Page 49), the picture is zoomed with the aspect ratio of the <FULL> setting.
- Display the magnification level selecting screen.

On the source control screen:





2 Change the magnification (1), then move the zooming frame (2).



• The zoom function cannot be used for some video sources.

Changing the display design

You can change the background and panel color.

1 Display the **<User Customize>** screen.
On the Home screen:





2 Select an item to change (background design: [Background]/panel color: [Panel Color]).



3 Select a background/panel color.

To select a background User Customize Biskground Pered Color User User V

to Capture

To select a panel color



- Selecting [Scan] changes the illumination color gradually.
- *1 Store your own scene beforehand. (Page 51)
- *2 Store your own color adjustment beforehand. (Page 51)

☐ Making your own color adjustment

Select [Panel Color] on the <User Customize> screen. (Page 50)





Select the dimmer setting for the color (1), then adjust the color (2).



☐ Storing your own scene for the background image

While playing a video or picture, you can capture an image and use the captured image as a background.

- You cannot capture copyrighted content and images from iPod/iPhone.
- · When using a JPEG file as the background, make sure that the resolution is 800 x 480 pixels.
- The color of the captured image may look different from that of the actual scene.
- Play a video or picture.
- Display the **<User Customize>** screen. (Page 50)

Display the image adjustment screen.



Adjust the image.



 $[\Delta][\nabla][A][D]$ Moves the zooming frame.

Magnifies the scene. (<OFF>, [⊕]

<Zoom1> - <Zoom3>)

[▶|||]* Starts/pauses playback.

Advances scenes frame-by-[**|**▶]* frame.

- To cancel the capture, press [Cancel].
- Capture the image displayed on the screen.



A confirmation message appears. Press [Yes] to store the newly captured image. (The existing image is replaced with the new one.)

- Press [No] to return to the previous screen.
- * Not displayed when playing an external component connected to the iPod/AV-IN input terminal.

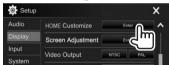
Customizing the Home screen

You can arrange the items to display on the Home screen.

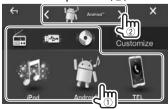
- Display the **<HOME Customize>** screen. On the Home screen:
 - Press [\] repeatedly to change the page on the < Display> menu screen.







Select the position to place the icon (1), then select the item you want to display in the selected position (2).



Repeat this step to place icons for other items.

Customizing the system settings

☐ Memorizing/recalling the settings

- You can memorize the settings changed in the <setup> menu and recall the memorized settings any time.
- The memorized settings are kept even when the unit is reset.
- 1 Display the **SETUP Memory** screen. On the Home screen:
 - Press [] repeatedly to change the page on the <System> menu screen.







Would you like to memory or recall the Audio & AV SETUP?

• To cancel, press [No].

3 Select an operation.



[Recall]Recalls the memorized settings.[Memory]Memorizes the current settings.[Clear]Clears the currently memorized settings.

· To cancel, press [Cancel].

A confirmation message appears. Press [Yes].

☐ Locking the settings

You can lock the settings to prevent them from being changed.

- 🔝 is shown beside the settings that can be locked.
- 1 Display the **<SETUP Memory>** screen. (See the left column.)



To unlock the setting: Press [Unlock].

☐ Updating the system

You can update the system by connecting a USB device containing an update file.

- To update the system, visit http://www2.
 jvckenwood.com/cs/ce/>.
- Create an update file and copy it to a USB device.
 - To connect a USB device, see page 64.
- 2 Display the **System Information** screen.

On the Home screen:

 Press [] repeatedly to change the page on the <System> menu screen.









<Application Version>

Updates the system application.

<DVD Version>

<System Version> Updates the system. Updates the DVD system application.

It may take a while.

If the update has been completed successfully. "Update Completed" appears. Reset the unit.

- Do not disconnect the USB device while updating.
- If the update has failed, turn the power off and then on, and retry the update.
- Even if you have turned off the power during the update, you can restart the update after the power is turned on. The update will be performed from the beginning.

☐ Adjusting the touch position

You can adjust the touch position on the touch panel if the position touched and the operation performed do not match.

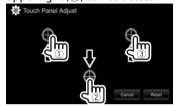
- Display the **<Touch Panel Adjust>** screen. On the Home screen:
 - Press [repeatedly to change the page on the <System> menu screen.







2 Touch the center of the marks at the upper left (1), the lower center (2), then the upper right (3) as instructed.



- To reset the touch position, press [Reset].
- To cancel the current operation, press [Cancel].

Setting menu items

☐ Displaying the <Setup> menu screen





- You can change the page to display more items by pressing []/[].
- You can also display the <Setup> screen by selecting [SETUP] on the pop-up short-cut menu (Page 13).
- You cannot change the **<Audio>** settings screen in the following situations:
 - When the unit is in standby (Page 10)
 - When the Bluetooth phone is used (making or receiving a call, during a call, or while voice dialing)*
 - During navigation guidance
- * Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/DDX416BTM/DDX616WBT/DDX616WBTM.

□<Audio> setting screen

<Equalizer>

Change the sound mode or adjust and store the equalization for each source. (Page 46)

- **Equalizer**: Selects the preset sound mode.
- Natural (Initial)/Rock/Pops/Easy/Top40/Jazz/ Powerful/User
- **Q factor**: Adjusts the width of the frequency.
- 1.35/1.5 (Initial)/2.0
- Bass EXT: Activates/deactivates bass.
 - ON/OFF (Initial)
- SW LEVEL: Adjusts the subwoofer level.
 - -50 to +10 (Initial: 0)

<Sound Effect>

Adjust the sound effect.

- Loudness: Adjusts loudness.
 - OFF (Initial)/Low/High
- Bass Boost: Selects the bass boost level.
 - OFF (Initial)/Level 1/Level 2/Level 3/Level 4/ Level 5
- **Drive EQ**: You can reduce the driving noise by raising the bandwidth.
 - OFF (Initial)/ON
- Space Enhancer*1: Virtually enhances the sound space using the Digital Signal Processor (DSP) system. Select the enhance level.
 - OFF (Initial)/Small/Medium/Large
- **Supreme***²: Restores the sound lost due to audio compression to a realistic sound.
 - OFF/ON (Initial)

- Sound Realizer: Virtually makes the sound more realistic using the Digital Signal Processor (DSP) system. Select the sound level.
 - OFF (Initial)/Level 1/Level 2/Level 3
- **Stage EQ**: You can move the center of the sound to the lower or higher point. Select the height.
 - OFF (Initial)/Low/Middle/High

<Fader/Balance>



Fader: Adjusts the front and rear speaker output balance.

- F15 to R15 (Initial: 0)
- When using a two-speaker system, set the fader to the center (0).

Balance: Adjusts the left and right speaker output balance.

• L15 to R15 (Initial: 0)

Press $[\blacktriangle]/[\blacktriangledown]/[\blacktriangleright]$ or drag $[\clubsuit]$ to adjust.

• To clear the adjustment, press [Center].

<Speaker/X'over>

Select the car type/speaker size and adjust the crossover frequency. (Page 47)

- *1 You cannot change the setting when "Radio" is selected as the source.
- *2 This function works only when "DISC"/"USB"/"iPod"/
 "Android™" is selected as the source.

<Time Alianment>

Select the listening position, then adjust the delay time of the speaker output to create a more suitable environment for your vehicle. (Page 48)

<Volume Offset>

Adjust and store the auto-adjustment volume level for each source. (For discs, the adjustment is stored for each of the following categories: DVD/VCD, CD, and DivX/MPFG1/MPFG2/WMV/MP3/WMA/WAV/ AAC.) The volume level will automatically increase or decrease when you change the source.

-15 to +6 (Initial: 00)

□ < Display> setting screen

<Dimmer>

- · Auto (Initial): Dims the screen and button illumination when you turn on the headlights.
 - The ILLUMI lead connection is required. (Page 62)*1
- ON: Activates dimmer.
- OFF: Cancels.
- NAV: Activates or deactivates dimmer according to the day/night display setting of the connected navigation unit.

<User Customize>

Change the display design. (Page 50)

<OSD Clock>

- ON: Displays the clock while a video source is playing.
- OFF (Initial): Cancels.

<Demonstration>

- **ON** (Initial): Activates the demonstration on the screen.
- OFF: Cancels.

<Scroll>

- **ON** (Initial): Scrolls the displayed information repeatedly.
- Once: Scrolls the displayed information once.
- · OFF: Cancels.

Pressing [<] scrolls the text regardless of this setting.

<HOME Customize>

Change the items to display on the Home screen. (Page 51)

<Screen Adjustment>

Adjust the brightness and blackness of the screen. Press [Enter] to display the setting screen, select [DIM ON] (dimmer on)/[DIM OFF] (dimmer off). then change the following settings:

- **Bright**: Adjusts brightness.
 - -15 to +15 (Initial: 0 for dimmer on/+15 for dimmer off)
- Black: Adjusts blackness.
 - -10 to +10 (Initial: 0)

<Video Output>*2

Select the color system of the external monitor.

NTSC/PAL (Initial)

<Anale>*3

Adjust the panel angle, (Page 9)

- *1 Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416RTM/DDX316/DDX316M
- *2 "Please Power Off" appears when the setting is changed. Turn off the power, then turn on to enable the change.
- *3 Only for DDX6016BT/DDX6016BTM/DDX616WBT/DDX616WBTM.

□ <Input> setting screen

<Front Camera>

Configure the front view camera settings. (Page 32)

- Front Camera: Activates or deactivates the front view camera.
- Reverse Image: Selects whether to reverse the picture from the front view camera or not.

<Rear Camera>

Configure the rear view camera settings.

- Rear Camera Interruption (Page 32):
 - **ON**: Displays the picture from the rear view camera when you shift the gear to the reverse (R) position.
 - OFF (Initial): Select this when no camera is connected.
- Parking Guidelines: Displays (ON: Initial) or hides (**OFF**) the parking guidelines. (Page 34)
- Guidelines Setup: Adjusts the parking guidelines. (Page 34)

<Navigation>

Change the navigation settings. (Page 36)

□ <System> setting screen

<Language>*1

Select the text language used for on-screen information.

- ・ English (Initial)/Español/Français/Deutsch/ Italiano/Nederlands/Ελληνικά/Português/ Τϋrkçe/Čeština/Polski/Magyar/Русский/תערית/ パコษาไทป/简体中文/繁體中文/Bahasa Indonesia/한국어
 - For external monitors, only English/Spanish/ French/German/Italian/Dutch/Russian/ Portuguese/Chinese Simplified are available. If another language has been selected, the text language for external monitors will be set to English.
- GUI Language: Selects the language used for displaying operation buttons and menu items.
 - English (Initial)/Local (the language selected above)

<Clock>

Adjust the clock time. (Page 5)

<iPod Setup>

Specify the connection method of iPod/iPhone. (Page 23)

<APP Setup>*2

Configure the App settings. (Page 45)

<Bluetooth Setup>*2

Configure settings for using a Bluetooth device, such as connection and other general operations. (Page 44)

<Beep>

- ON (Initial): Activates the key-touch tone.
- · OFF: Cancels.

<SETUP Memory>

You can memorize, recall, or clear the settings you have made. (Page 52)

<DivX(R) VOD>

This unit has its own Registration Code. Once you have played back a file with the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection.

- Press [Enter] to display the information.
- To return to the previous screen, press [OK].

<Security Code>

Register the security code for the unit. (Page 4)

<SI>*3

Activate or deactivate the security function. (Page 5)

<Serial Number>

Displays the serial number.

<Touch Panel Adjust>

Adjust the touch positions of the buttons on the screen. (Page 53)

<Steering Remote Controller>

Assign functions to the keys on the remote controller of the steering wheel. (Page 59)

<System Information>

Displays the version information of the software. You can update the software. (Page 52)

<Open Source Licenses>

Shows the Open Source Licenses.

- *1 "Please Power Off" appears when the setting is changed. Turn off the power, then turn on to enable the change.
- *2 Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM.
- *3 Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/DDX416BTM/DDX316/DDX316M.

REMOTE CONTROLLER

Overview

DDX6016BT Region 3/DDX6016BT Region 5/ DDX6016BTM/DDX416BT/DDX416BTM/DDX316/ DDX316M/DDX616WBT Region 3/DDX616WBTM:

This unit can be operated using the Remote Controller (RC-DV340) supplied with this unit. DDX6016BT Region 4/DDX4016BT/DDX616WBT Region 4:

Optional Remote Controller KNA-RCDV331 is designed for controlling this unit. Refer to the instruction manual that comes with the remote controller

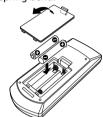
↑ Caution:

- Put the Remote Controller in a place where it will not move during braking or other operations. A dangerous situation could result if the Remote Controller 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 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

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

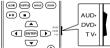
 Always insert batteries from – poles to prevent spring bend.



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

☐ Remote Controller mode switch

The functions operated from the remote controller 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 DVDs or CDs etc. with the player integrated in this unit.

TV mode: Not used.

- The position of the remote control mode switch is indicated in the title of each mode, e.g., "AUD mode".
- When controlling a player that is not integrated in the unit, select "AUD" mode.

Operations from the remote controller

☐ Common operations (AUD mode)

SRC	Selects the source. Hangs up the incoming/current call.*
▲/▼ VOL	Adjusts the volume level.
ATT	Attenuates/restores the sound.
DISP/V.SEL	Switches to the navigation screen.*
ENTER	Enters options.
(C)	Answers incoming calls.*1
FNC/PBC/ MENU	Switches the control screen.
MODE/ TOP MENU	Changes the aspect ratio. The aspect ratio changes each time you press this key.
OPEN	Adjusts the panel angle.*2 • The panel angle changes each time you press this key.
	•

- *1 Available for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM only.
- *2 Available for DDX6016BT/DDX6016BTM/DDX616WBT/ DDX616WBTM only.

REMOTE CONTROLLER

□ DVD/VCD (DVD mode)

D (DVD illoue)		
Moves the cursor when displaying a menu.		
Selects a track.		
Starts/pauses playback.		
Stops and memorizes the point where the disc stops.		
Specifies the number to search for in direct search. Teas: Fast forwards/ backwards. Fast forward/backward speed changes each time you press this key. Sea: Slow forwards/ backwards during pause.		
Shows the disc top menu.		
Shows the disc menu.		
Changes the subtitle language.		
Changes the zoom ratio. The zoom ratio changes each time you press this key.		
Changes the picture angle. The picture angle changes each time you press this key.		
Changes the voice language. The voice language changes each time you press this key.		
Enters direct search mode. (See the far right column.)		
Deletes a character while in direct		

☐ Music Disc/Audio file/Video file/Picture file (AUD mode)

AM –/FM +	Selects a folder.
	Selects a track/file.
▶ / 	Starts/pauses playback.
0 – 9	Specifies the number to search for in direct search.
DIRECT	Enters direct search mode. (See the right column.)

☐ Radio (AUD mode)

	AM –/FM +	Selects the band.		
	◀◀/▶▶	Searches for stations.		
	Changes the seek mode (AUTC AUTO2, MANU).			
0 – 9		Specifies preset number. (1 – Specifies the frequency of the station to receive to search for in direct search.		
	DIRECT	Enters direct search mode. (See the right column.)		

□ iPod/Android (AUD mode)

 ⊲⊲ / ▶⊳	Selects music/videos.		
▶ /II	Starts/pauses playback.		

☐ USB (AUD mode)

AM -/FM +	Selects a folder.
 	Selects a file.
▶ /II	Starts/pauses playback.

Searching for an item (chapter/title/folder/file/track) directly

- 1 Press DIRECT to enter the search mode. Each time you press DIRECT, the item to search for changes.
- 2 Press a number button to select a desired item.
- 3 Press ENTER to confirm the selection.

Searching for a tuner frequency directly

- Press DIRECT to enter the search mode.
- 2 Press number buttons to enter a frequency.
- 3 Press ► to confirm the entry.

REMOTE CONTROLLER

Using the steering remote controller

You can assign functions to the keys of the remote controller on the steering wheel.

- · This function is available only when your vehicle is equipped with the electrical steering remote controller.
- You can only register/change the functions while vou are parked.
- If your steering remote controller is not compatible, learning may not be completed and an error message may appear.

☐ Registering/changing the functions

Display the **<System>** setting screen. On the Home screen:



- Display the **<Steering Remote Control** Setting> screen.
 - Press [repeatedly to change the page on the <Svstem> menu screen.



- Press and hold a steering remote controller button to register/change.
- Select a function to assign.



- You can change the page to display more items by pressing []/[].
- Repeat steps 3 and 4 as necessary.
- Finish the procedure.



- The unit can register/change all of the buttons' functions at the same time. To do this, press each button in turn and after pressing all of them, press [Done] on the <Steering Remote Control **Setting>** screen. However, new functions cannot be learned after this operation.
- · When changing the functions already learned, touch the button you want to change in step 3 and then touch to select the new function from the function list.
- · Confirm the contents of the settable functions in the function list. You cannot edit the function list.

☐ Initializing the settings

- Display the **<System>** setting screen. (See the far left column.)
 - Press [\] repeatedly to change the page on the **<System>** menu screen.





• To cancel the initialization, press [No].

Before installing the unit

⚠ WARNING

- 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.

↑ Precautions on installation and connection

- 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 12 V DC power supply.
- Do not install the unit in a location 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 ("Miswiring DC Offset Error", "Warning DC Offset Error" is displayed), the speaker wire may have a short circuit or have touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- Keep all cables away form heat dissipate metal parts.

- 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.
- Only for DDX6016BT/DDX6016BTM/DDX616WBT/ DDX616WBTM:
 - If the console has a lid, make sure to install the unit so that the monitor panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires are not 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 both connectors either to the front output terminals or to the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scratches, damage, or failure may result.

⚠ CAUTION

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

☐ Supplied accessories for installation

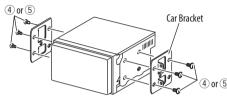
- ① Wiring harness x 1
- (2) Trim plate*1 x 1
- 3 Extension wire (2 m) x 1
- (4) Flat head screws (M5 x 8 mm) x 6
- (5) Round head screws (M5 x 8 mm) x 6
- 6 Steering Remote cable x 1
- 7) Microphone (3 m)*2 x 1
- *1 Only for DDX6016BT Region 4/DDX4016BT.
- *2 Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM.

☐ Installation procedure

- 1 To prevent a short circuit, remove the key from the ignition and disconnect the \bigcirc battery.
- Make the proper input and output wire connections for each unit.
- Connect the speaker wires of the wiring harness.
- 4 Connect the wiring harness wires in the following order: ground, battery, ignition.
- Connect the wiring harness connector to the unit.
- Install the unit in your car.
 - Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).
- Reconnect the \bigcirc battery.
- Press the reset button. (Page 3)
- Configure < Initial Setup >. (Page 4)

Installing the unit

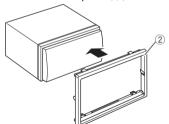
☐ Installing the unit using the mounting bracket removed from the car



• Select the appropriate type of screw for the mounting bracket: flat head (4) or round head (5).

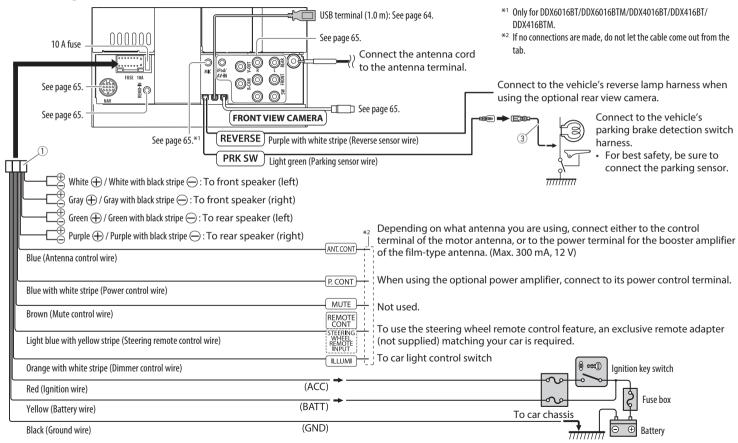
☐ Installing the trim plate (Only for DDX6016BT Region 4/DDX4016BT)

1 Attach the trim plate (2).

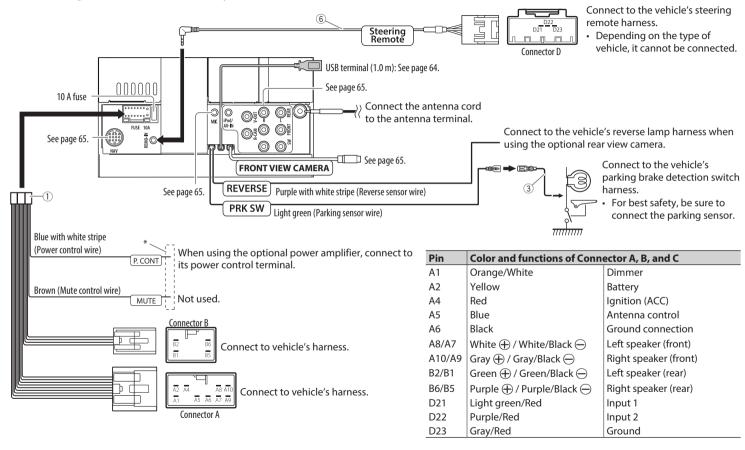


Connection

☐ Connecting wires to terminals (for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/DDX416BTM/DDX316/DDX316M)



☐ Connecting wires to terminals for Toyota Cars (for DDX616WBT/DDX616WBTM)

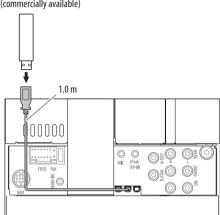


^{*} If no connections are made, do not let the cable come out from the tab.

☐ Connecting a USB device

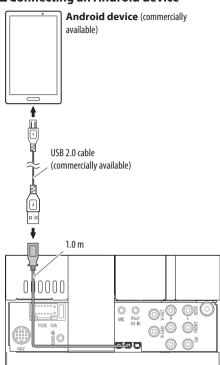
USB device*

(commercially available)

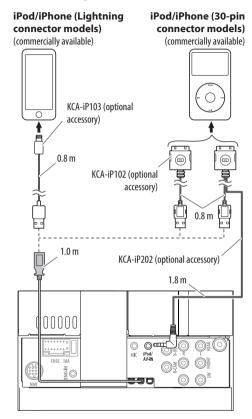


* Use CA-U1EX for extending the cable if necessary. (Max 500 mA, 5V)

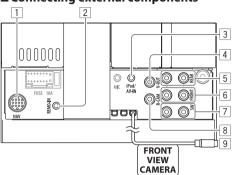
☐ Connecting an Android device



☐ Connecting iPod/iPhone



☐ Connecting external components



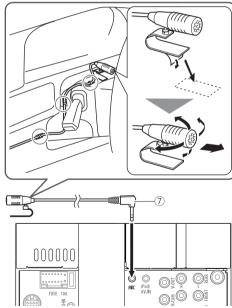
- 1 NAVI I/F input
- 2 Steering wheel remote controller input
 - Connect to the vehicle's steering remote harness using the Steering Remote cable (6). Contact your Kenwood dealer for details.
- 3 iPod/Audio Video input (iPod/AV-IN)*1
- 4 Video output (Yellow)
- Rear preout*2
 - Audio left output (White)
 - · Audio right output (Red)

- 6 Front preout*2
 - Audio left output (White)
 - · Audio right output (Red)
- 7 Subwoofer preout*2
 - Subwoofer left output (White)
 - Subwoofer right output (Red)
- 8 Rear view camera input (Yellow)
- 9 Front view camera input
- *1 When connecting the component to play on "AV-IN", use the Audio and Video cable CA-C3AV (optional accessory).
- *2 When connecting the external amplifier, connect its ground wire to the chassis of the car; otherwise the unit may be damaged.

☐ Connecting microphone for Bluetooth (only for DDX6016BT/DDX6016BTM/ DDX4016BT/DDX416BT/DDX416BTM/ DDX616WBT/DDX616WBTM)

Connect the microphone (7) to the MIC terminal.

• To install the microphone, peel off the adhesive tape, fix on the installation position, then adjust the direction of the microphone to face the driver. After installing, fix the microphone cable to the car with clamps (commercially available).



Maintenance

☐ Caution on cleaning the unit

Do not use any solvent (for example, thinner, benzine, etc.), detergent, or insecticide. This may damage the monitor or the unit.

Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

☐ Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car. Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

☐ How to handle discs

 When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.
- When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).
 - Make sure to store discs in their cases after use.

☐ To keep discs clean

Dirty discs may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from the center to the edge.



 Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

☐ To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



• To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

More information

☐ File playback

Playing DivX files

- This unit can play back DivX files with the extension code <.divx>, <.div>, or <.avi> (regardless of the letter case—upper/lower).
- Audio streams should conform to MP3 or Dolby Digital.
- Files encoded in the interlaced scanning mode may not be played back correctly.
- The maximum bit rate for video signals (average) is 8 Mbps.

Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg>, <.mpeg>.
- The stream format should conform to MPEG system/program stream.
- The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or Dolby Digital.

Playing JPEG files

- This unit can play back picture files with the extension code <.jpg> or <.jpeg>.
- This unit can play back files that are at 32 x 32 to 8 192 x 7 680 resolution.
 It may take time to display the file depending on its resolution.
- This unit can play back baseline JPEG files.
 Progressive JPEG files or lossless JPEG files cannot be played.

Playing audio files (MP3/WMA/WAV/AAC)

- This unit can play back files with the extension code <.mp3>, <.wma>, <.wav> or <.m4a> (regardless of the letter case—upper/lower).
- This unit can play back files that meet the conditions below:
 - Bit rate:

MP3: 8 kbps – 320 kbps WMA: 5 kbps – 320 kbps

AAC: 16 kbps – 320 kbps

Sampling frequency:8 kHz – 48 kHz (for MP3/WMA)

44.1 kHz (for WAV)

- 32 kHz 48 kHz (for AAC)

 This unit can show ID3 Tag Version
- 1.0/1.1/2.2/2.3/2.4 (for MP3).
- This unit can also show WMA/WAV/AAC Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
- MP3 files encoded with MP3i and MP3 PRO format.
- MP3 files encoded with Laver 1/2.
- WMA files encoded with lossless, professional, and voice format.
- WMA files which are not based upon Windows Media[®] Audio.
- WMA/AAC files copy-protected with DRM.
- AAC files encoded using any other application than iTunes.
- AAC files copy-protected with FairPlay (except those stored on an iPod/iPhone).
- Files which have data such as AIFF, ATRAC3, etc.

- This unit can display jacket pictures that meet the conditions below:
 - Picture size: 32 x 32 to 1 232 x 672 resolution
 - Data size: less than 500 KB
 - File type: JPEG

☐ Disc playback Playable disc types

Playable disc types					
Disc type	Recording format, file type, etc.				
 DVD DTS sound cannot be reproduced or emitted from this unit. 	DVD Video*1				
DVD Recordable/Rewritable (DVD-R/-RW*², +R/+RW*³) • DVD Video: UDF bridge • DivX/MPEG1/MPEG2/MP3/ WMA/WAV/AAC: ISO 9660 level 1, level 2, Romeo, Joliet	DVD Video DivX/MPEG1/ MPEG2/JPEG MP3/WMA/ WAV/AAC				
Dual Disc	DVD side				
CD/VCD	VCD (Video CD) Audio CD/ CD Text (CD-DA)				
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	 VCD (Video CD) CD-DA DivX/MPEG1/ MPEG2/JPEG MP3/WMA/ WAV/AAC 				

*1 DVD Region code:

For DDX6016BT/DDX416BT/DDX316/DDX616WBT: 3/4/5 (depending on the country and sales area)

For DDX4016BT: 4

For DDX6016BTM/DDX416BTM/DDX316M/DDX616WBTM: 2
If you insert a DVD Video disc of an incorrect Region Code, "Region Code Error" appears on the screen.

- *2 DVD-R recorded in multi-border format are also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.
- *3 It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as the disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

Unplayable discs

- Unplayable disc types and formats are as follows:
- DVD-Audio/DVD-ROM discs
- MPEG4/FLAC/MKV/DVD–VR/DVD+VR/DVD-RAM recorded on DVD-R/RW or +R/+RW
- SVCD (Super Video CD), CD-ROM, CD-I (CD-I Ready), DTS-CD
- MPEG4/FLAC/MKV recorded on CD-R/RW
- · Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- Recordable/Rewritable discs that have not been finalized.
- 8 cm discs. Attempting to insert these discs using an adapter may cause a malfunction.

DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of the Non-DVD side of a DualDisc on this product cannot be recommended.

Playing Recordable/Rewritable discs

- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- · Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

☐ About data stored in the connected USB device/iPod/iPhone/Android/ BlackBerry

 We bear no responsibility for any loss of data in iPod/iPhone, Android, BlackBerry, and USB mass storage class devices while using this unit.

□ USB playback

Playable files on a USB device

- This unit can play the following types of files stored in a USB mass storage class device.
- JPEG/DivxX/MPEG1/MPEG2/MP3/WMA/WAV/AAC
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Make sure all important data has been backed up to avoid losing the data.

Notes on using a USB device:

- This unit may not play back files in a USB device properly when using a USB extension cable.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit may not recognize a memory card inserted into a USB card reader.
- When connecting with a USB cable, use a USB 2.0 cable.

- The maximum number of characters (when the characters are 1 byte):
 - Folder names: 50 characters
 - File names: 50 characters
- Avoid using the USB device if it might affect driving safety.
- Do not pull out and connect the USB device repeatedly while "Reading" is shown on the screen.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, or expose to direct sunlight or high temperatures to prevent deformation or damage to the device.

☐ Notes on playing iPod/iPhone

- iPod/iPhone that can be connected to this unit: Made for
 - iPod with video
 - iPod classic
 - iPod nano (7th Generation)*
 - iPod nano (6th Generation)
 - iPod nano (5th Generation)
 - iPod nano (4th Generation)iPod nano (3rd Generation)
 - iPod nano (srd Generation)*iPod touch (5th Generation)*
 - iPod touch (4th Generation)
 - iPod touch (3rd Generation)
 - iPhone 6 Plus*
 - iPhone 6*
 - iPhone 5S*

- iPhone 5C*
- iPhone 5*
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone
- You cannot watch video when connecting Lightning connector models.
- When operating an iPod/iPhone, some operations may not be performed correctly or as intended. In this case, visit the following KENWOOD web site: <www.kenwood.com/cs/ce/ipod>
- For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition. If the performance is not improved or slow, reset
- vour iPod/iPhone. • When you turn on this unit, the iPod/iPhone is
- The text information may not be displayed correctly.

charged through the unit.

☐ Notes on using BlackBerry device **Compatible BlackBerry device**

This unit supports BlackBerry OS 10.1 and above.

☐ Language codes (for DVD language selection)

• •	1.6	61	10.11.1		I	60	le 1:
AA	Afar	GL	Galician	MI	Maori	SO	Somali
AB	Abkhazian	GN	Guarani	MK	Macedonian	SQ	Albanian
AF	Afrikaans	GU	Gujarati	ML	Malayalam	SR	Serbian
AM	Ameharic	НА	Hausa	MN	Mongolian	SS	Siswati
AR	Arabic	HI	Hindi	МО	Moldavian	ST	Sesotho
AS	Assamese	HR	Croatian	MR	Marathi	SU	Sundanese
AY	Aymara	HU	Hungarian	MS	Malay (MAY)	SW	Swahili
ΑZ	Azerbaijani	HY	Armenian	MT	Maltese	TA	Tamil
BA	Bashkir	IA	Interlingua	MY	Burmese	TE	Telugu
BE	Byelorussian	IE	Interlingue	NA	Nauru	TG	Tajik
BG	Bulgarian	IK	Inupiak	NE	Nepali	TH	Thai
ВН	Bihari	IN	Indonesian	NO	Norwegian	TI	Tigrinya
BI	Bislama	IS	Icelandic	OC	Occitan	TK	Turkmen
BN	Bengali, Bangla	IW	Hebrew	OM	(Afan) Oromo	TL	Tagalog
ВО	Tibetan	JA	Japanese	OR	Oriya	TN	Setswana
BR	Breton	JI	Yiddish	PA	Panjabi	ТО	Tonga
CA	Catalan	JW	Javanese	PL	Polish	TR	Turkish
CO	Corsican	KA	Georgian	PS	Pashto, Pushto	TS	Tsonga
CS	Czech	KK	Kazakh	QU	Quechua	TT	Tatar
CY	Welsh	KL	Greenlandic	RM	Rhaeto-Romance	TW	Twi
DZ	Bhutani	KM	Cambodian	RN	Kirundi	UK	Ukrainian
EL	Greek	KN	Kannada	RO	Rumanian	UR	Urdu
EO	Esperanto	КО	Korean (KOR)	RW	Kinyarwanda	UZ	Uzbek
ET	Estonian	KS	Kashmiri	SA	Sanskrit	VI	Vietnamese
EU	Basque	KU	Kurdish	SD	Sindhi	VO	Volapuk
FA	Persian	KY	Kirghiz	SG	Sangho	WO	Wolof
FI	Finnish	LA	Latin	SH	Serbo-Croatian	XH	Xhosa
FJ	Fiji	LN	Lingala	SI	Singhalese	YO	Yoruba
FO	Faroese	LO	Laothian	SK	Slovak	ZU	Zulu
FY	Frisian	LT	Lithuanian	SL	Slovenian		•
GA	Irish	LV	Latvian, Lettish	SM	Samoan	_	
GD	Scots Gaelic	MG	Malagasy	SN	Shona	-	
			/			_	

Error message list

If an error occurs while using the unit, a message appears. Take appropriate action according to the following message/remedy/cause list.

"No Signal"/"No Video Signal":

- Start playback on the external component connected to the iPod/AV-IN input terminal.
- Check the cords and connections.
- · Signal input is too weak.

"Miswiring DC Offset Error"/"Warning DC Offset Error":

 A speaker cord has shorted or it has come into contact with the car chassis. Wire or insulate the speaker cord as appropriate, then reset the unit. (Pages 3 and 62)

"Parking off":

 No playback picture is shown when the parking brake is not engaged.

"Authorization Error":

 Check whether the connected iPod/iPhone is compatible with this unit. (Page 68)

"USB Device Error":

- The USB power voltage is abnormal.
- Turn off and turn on the unit.
- · Connect another USB device.

"Panel Mecha Error":

• The panel does not work properly. Reset the unit.

"No Navigation":

· No navigation unit is connected.

"Connection Error":

• The device is registered but the connection has failed. Connect the registered device. (Page 39)

"Please Wait...":

 The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again (or reset the unit).

"No Voice Device":

• The connected mobile phone does not have a voice recognition system.

"No Data":

 No phone book data is contained in the connected Bluetooth phone.

"Initialize Error":

• The unit has failed to initialize the Bluetooth module. Try the operation again.

"Dial Error":

• Dialing has failed. Try the operation again.

"Hung Up Error":

• The call has not ended yet. Park your car, and use the connected mobile phone to end the call.

"Pick Up Error":

• The unit has failed to receive a call.

"Please update Pandora App":

 The Pandora application on your iPod touch/ iPhone/Android/BlackBerry is not the latest version. Update the application.

"Please check device.":

- The Pandora application on your iPod touch/ iPhone/Android/BlackBerry is not started up.
- The Pandora application is not installed on the connected device.
- An error has occurred on the Pandora application.

"Login Error":

· You have not been signed into Pandora.

"No skips remaining":

· No more songs can be skipped.

"Failed to save your thumb rating":

· Thumb-up/down is prohibited.

"No Station":

· No station is available.

"No Active Station":

· No station is being played.

"Station limit reached":

 The Station List is full and no more stations can be registered.

"Failed to save your bookmark":

• The unit has failed to save a bookmark. Try the operation again.

"Limited Connectivity":

• The connection with the Pandora application cannot be established.

"Pandora not available":

 You cannot use the Pandora application from the area where you are currently trying to access Pandora

"Try again later":

The Pandora server is under maintenance.

"Station does not exist":

• The selected station has been deleted by another device or has expired.

"Cannot create a Station":

· You cannot create a station during the readonly mode or when network connection is not established

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

• For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).

□ General

No sound comes out of the speakers.

- Adjust the volume to the optimum level.
- Check the cords and connections.

No picture is displayed on the screen.

• Turn on the screen. (Page 10)

The unit does not work at all.

• Reset the unit. (Page 3)

The remote controller* does not work.

- · Replace the battery.
- * For DDX6016BT Region 4/DDX4016BT/DDX616WBT Region 4: Purchase KNA-RCDV331 separately.

☐ Discs

Recordable/Rewritable discs cannot be played back.

- Insert a finalized disc.
- Finalize the discs with the component which you used for recording.

Tracks on the Recordable/Rewritable discs cannot be skipped.

- Insert a finalized disc.
- Finalize the discs with the component which you used for recording.

Playback does not start.

• The format of files is not supported by the unit.

No picture appears on the external monitor.

- · Connect the video cord correctly.
- Select the correct input on the external monitor.

DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC discs cannot be played back.

- Record the tracks using a compatible application on the appropriate discs. (Page 67)
- Add appropriate extension codes to the file names.

Tracks on the Recordable/Rewritable discs are not played back as you have intended them to play.

 Playback order may differ from the one played back using other players.

□USB

"Reading" does not disappear from the screen.

• Turn the power off and on again.

While playing a track, sound is sometimes interrupted.

• The tracks are not properly copied into the USB device. Copy the tracks again, and try again.

Tracks are not played back as you have intended them to play.

• Playback order may differ from the one played back using other players.

□ Android

Sound cannot be heard during playback.

- · Reconnect the Android device.
- When <Android Setup> is set to [HAND MODE], launch any media player application on the Android device and start playback.

Sound output only from the Android device.

- When <Android Setup> is set to [HAND MODE], relaunch the current media player application or use another media player application.
- · Restart the Android device.
- If this does not solve the problem, the connected Android device is unable to route the audio signal to unit.

Cannot playback when <Android Setup> is set to [BROWSE MODE].

- Make sure KENWOOD Music Play APP is installed on the Android device.
- Reconnect the Android device and select the appropriate control mode.
- If this does not solve the problem, the connected Android device does not support the Browse Mode.

"NO DEVICE" or "READING" keeps flashing.

- Switch off the developer options on the Android device.
- · Reconnect the Android device.
- If this does not solve the problem, the connected Android device does not support the Browse Mode.

□ iPod/iPhone

No sound comes out of the speakers.

- Disconnect the iPod/iPhone, then connect it again.
- Select another source, then reselect "iPod".

The iPod/iPhone does not turn on or does not work.

- Check the connecting cable and its connection.
- · Update the firmware version.
- · Charge the battery.
- · Reset the iPod/iPhone.

Sound is distorted.

 Deactivate the equalizer either on this unit or the iPod/iPhone.

A lot of noise is generated.

 Turn off (uncheck) "VoiceOver" on the iPod/ iPhone. For details, visit http://www.apple.com>.

No operations are available when playing back a track containing artwork.

· Operate the unit after the artwork has loaded.

Videos cannot be played.

- Connect with USB Audio and Video cable KCA-iP202 (optional accessory) to iPod/iPhone 30-pin connector model. Other cables cannot be used.
- Select [USB+AV-IN] for <iPod Setup>. (Page 23)

No sound of videos comes out.

- Connect with USB Audio and Video cable KCA-iP202 (optional accessory) to iPod/iPhone 30-pin connector model. Other cables cannot be used.
- Select [USB+AV-IN] for <iPod Setup>. (Page 23)

□ Radio

AME automatic presetting does not work.

• Store stations manually. (Page 29)

Static noise while listening to the radio.

· Connect the antenna firmly.

☐ AV-IN

"AV-IN" cannot be selected on the Home screen.

 Select [USB 1 Wire] for <iPod Setup>. (Page 23)

No picture appears on the screen.

• Turn on the video component if it is not on.

☐ Pandora*

The application does not work.

- The application on your iPod touch/iPhone/ Android/BlackBerry is not the latest version. Update the application.
- * Only for DDX6016BT Region4/DDX4016BT/DDX616WBT Region 4.

☐ Bluetooth*

Phone sound quality is poor.

- · Reduce the distance between the unit and the Bluetooth mobile phone.
- Move the car to a place where you can get a better signal reception.

The sound is interrupted or skipped while using a Bluetooth audio player.

- · Reduce the distance between the unit and the Bluetooth audio player.
- · Disconnect the device connected for Bluetooth phone.
- Turn off, then turn on the unit. (When the sound is not yet restored) connect the player again.

The connected audio player cannot be controlled.

 Check whether the connected audio player supports AVRCP (Audio/Video Remote Control Profile).

The Bluetooth device does not detect the unit.

· Search from the Bluetooth device again.

The unit does not pair with the Bluetooth device.

- For devices compatible with Bluetooth 2.1: Register the device using a PIN code. (Page 38)
- For devices compatible with Bluetooth 2.0: Enter the same PIN code for both the unit and target device. If the PIN code of the device is not indicated in its instructions, try "0000" or "1234."
- Turn off, then turn on the Bluetooth device.

Echo or noise occurs.

- Adjust the microphone unit position.
- · Adjust the echo volume or noise reduction volume. (Page 40)

The unit does not respond when you try to copy the phone book to the unit.

- · You may have tried to copy the same entries (as stored) to the unit.
- * Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM

Specifications

■ Monitor section

Picture Size (W x H) DDX6016BT/DDX6016BTM/DDX616WRT/ DDX616WBTM: 6.95 inches (diagonal) wide 156.6 mm × 81.6 mm DDX4016BT/DDX416BT/DDX416BTM/DDX316/ DDX316M· 6.2 inches (diagonal) wide $137.5 \text{ mm} \times 77.2 \text{ mm}$ Display System Transparent TN LCD panel Drive System TFT active matrix system Number of Pixels 1 152 000 (800H × 480V × RGB) **Effective Pixels** 99.99% Pixel Arrangement RGB striped arrangement

□ DVD player section				
D/A Converter	24 bit			
Audio Decoder	Linear PCM/Dolby Digital/MP3/ WMA/WAV/AAC			
Video Decoder	DivX/MPEG1/MPEG2/JPEG			
Wow & Flutter	Below Measurable Limit			
Frequency Respo	nse			
96 kHz Samplin	g: 20 Hz to 22 000 Hz			
48 kHz Samplin	g: 20 Hz to 22 000 Hz			
44.1 kHz Sampl	ing: 20 Hz to 20 000 Hz			
Total Harmonic D	istortion			
	0.010% (1 kHz)			
Signal to Noise Ra	atio			
	99 dB (DVD-Video 96 kHz)			
Dynamic Range	99 dB (DVD-Video 96 kHz)			
Disc Format	DVD-Video/VIDEO-CD/CD-DA			
Sampling Frequency				
	44.1 kHz/48 kHz/96 kHz			
Quantifying Bit N	umber			
	16/20/24 bit			

☐ USB interface section					
USB Standard USB 2.0 High Speed					
Compatible Device	Compatible Devices				
	Mass Storage Class				
File System	FAT 16/32				
Maximum Power Supply Current					
	DC 5 V === 1.5 A				
D/A Converter	24 bit				
Audio Decoder	MP3/WMA/AAC/WAV				
Video Decoder	DivX/MPEG1/MPEG2/JPEG				

Bluetooth 3.0

2.402 GHz to 2.480 GHz

☐ Bluetooth section*

Technology

Frequency

Output Power	+4 dBm (MAX), 0 dBm (AVE), Power Class 2	
Maximum Comm	nunication Range	
	Line of sight approx. 10 m	
Audio Codec	SBC/AAC	
Profile	HFP (Hands Free Profile) 1.6	
	A2DP (Advanced Audio	
	Distribution Profile) 1.3	
	AVRCP (Audio/Video Remote	
	Control Profile) 1.5	
	GAP (Generic Access Profile)	
	PBAP (Phonebook Access Profile)	
	1.2	
	SDP (Service Discovery Profile)	
	SPP (Serial Port Profile) 1.2	

Only for DDX6016BT/DDX6016BTM/DDX4016BT/DDX416BT/ DDX416BTM/DDX616WBT/DDX616WBTM.

☐ DSP section Equalizer BAND 13 Band Frequency (Hz) (BAND1-13) 62.5/100/160/250/400/630/1k/ 1.6k/2.5k/4k/6.3k/10k/16k Gain -9/-8/-7/-6/-5/-4/-3/-2/-1/ 0/1/2/3/4/5/6/7/8/9 dB O factor 1.35/1.5/2.0 2 Way X'Over Tweeter: Frequency (Hz) 1k/1.6k/2.5k/4k/5k/6.3k/8k/10k/ 12.5k Gain -8/-7/-6/-5/-4/-3/-2/-1/0 dB Front/Rear (HPF): Frequency (Hz) Through/30/40/50/60/70/80/90/ 100/120/150/180/220/250 Slope -6/-12/-18/-24 dB/Oct. Gain -8/-7/-6/-5/-4/-3/-2/-1/0 dB Subwoofer (LPF): Frequency (Hz) 30/40/50/60/70/80/90/ 100/120/150/180/220/250/ Through -6/-12/-18/-24 dB/Oct. Slope Phase Normal/Reverse Gain -8/-7/-6/-5/-4/-3/-2/-1/0 dB Position Front/Rear/Subwoofer Delay 0 cm to 610 cm (2.0 cm Step)

-8 dB to 0 dB

-50 dB to +10 dB

Gain

Subwoofer Level

☐ FM radio section	☐ AM radio section (only for DDX6016BT	☐General
Frequency Range (50 kHz) 87.5 MHz to 108.0 MHz	Region3/DDX6016BT Region 4/ DDX4016BT/DDX416BT Region 3/	Operating Voltage 14.4 V (10.5 V to 16 V allowable)
Usable Sensitivity (S/N: 26 dB) 8.2 dBf (0.71 μV/75 Ω)	DDX316/DDX616WBT Region 3/ DDX616WBT Region 4)	Maximum Current Consumption 10 A
Quieting Sensitivity (S/N: 46 dB) 17.2 dBf (2.0 μV/75 Ω)	Frequency Range (9 kHz) 531 kHz to 1 611 kHz	Installation Dimensions (W × H × D) DDX6016BT/DDX6016BTM/DDX4016BT/
Frequency Response (±3.0 dB) 30 Hz to 15 kHz	Usable Sensitivity 28.5 µV	DDX416BT/DDX416BTM/DDX316/DDX316M: 178 mm × 100 mm × 162 mm
Signal to Noise Ratio 64 dB (MONO)	☐ Video section	DDX616WBT/DDX616WBTM: 178 mm × 100 mm × 162 mm
Selectivity (±400 kHz) ≥ 80 dB	Color System of External Video Input NTSC/PAL	206 mm \times 104 mm \times 162 mm (including the sub panel part)
Stereo Separation 40 dB (1 kHz)	External Video Input Level (mini jack) 1 Vp-p/75 Ω	Operational Temperature Range −10°C to +60°C
☐ LW tuner section (only for DDX6016BT Region 5/DDX6016BTM/DDX416BT	External Audio Max Input Level (mini jack) 2 V/25 kΩ	Weight DDX6016BT/DDX6016BTM: 2.3 kg
Region 5/DDX416BTM/DDX316M/ DDX616WBTM)	Video Input Level (RCA jack) 1 Vp-p/75 Ω	DDX4016BT/DDX416BTM/DDX316/ DDX316M: 1.7 kg
Frequency Range (9 kHz) 153 kHz to 279 kHz	Video Output Level (RCA jack) 1 Vp-p/75 Ω	DDX616WBT/DDX616WBTM: 2.2 kg
Usable Sensitivity 45 μV	Analog RGB Input 0.7 Vp-p/75 Ω	Design and specifications are subject to change without notice.
☐ MW tuner section (only for DDX6016BT Region 5/DDX6016BTM/DDX416BT Region 5/DDX416BTM/DDX316M/	☐ Audio section	
	Maximum Power (Front & Rear) 50 W × 4	
DDX616WBTM)	Full Bandwidth Power (Front & Rear)	
Frequency Range (9 kHz) 531 kHz to 1 611 kHz	$\frac{22 \text{ W} \times 4 \text{ (at less than 1\%THD)}}{\text{Preout Level}}$	
Usable Sensitivity 28.5 μV	Preout Impedance \leq 600 Ω	
	Speaker Impedance $4\Omegato8\Omega$	

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DIVX

- This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video.
 To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu. (Page 56)
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