KENWOOD

DDX790 DDX770 DDX7070BT DDX470 DDX4070BT DDX370 DDX3070

MONITOR WITH DVD RECEIVER

INSTRUCTION MANUAL

JVC KENWOOD Corporation





















Take the time to read through this instruction manual.

REAL

Familiarity with installation and operation procedures will help you obtain the best performance from your new DVD Receiver.

For your records

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

Model DDX790/DDX770/DDX7070BT/DDX470/DDX4070BT/DDX370/DDX3070 Serial number

US Residence Only

Register Online

Register your Kenwood product at www.Kenwoodusa.com

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Before use

⚠ WARNINGS:

(To prevent accidents and damage)

- · 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 monitor built in 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 sunliaht.
- · Do not operate the touch panel using a ball-point pen or similar tool with the sharp
 - Press 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
 - 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 DDX790/DDX770/DDX7070BT



DDX470/DDX4070BT/DDX370/DDX3070



If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed (except the registered Bluetooth devices).

How to read this manual:

- Illustrations of DDX770 are mainly used for explanation.
- 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 DDX7070BT/DDX4070BT/ DDX3070), 🖙 page 66.
- < > indicates the variable screens/ menus/operations/settings that appear on the touch panel.
- [] indicates the buttons on the touch
- · Indication language: English indications are used for the purpose of explanation. You can select the indication language from the <Setup> menu. (r page 52)

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.

DDX790/DDX770/DDX470/DDX370: FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television. reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

DDX790/DDX770/DDX470/DDX370: **⚠** CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

JVC KENWOOD Corporation 2967-3, ISHIKAWA-MACHI. HACHIOJI-SHI, TOKYO, JAPAN

THIS PRODUCT COMPLIES WITH DHHS RULES 21CFR SUBCHAPTER LIN FFFFCT AT DATE OF MANUFACTURE.

Location: Top plate

DDX7070BT/DDX4070BT/DDX3070: 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

DDX790/DDX770/DDX7070BT/DDX470/ DDX4070BT:

About KS-UBT1 (USB Bluetooth adapter)

The USB Bluetooth adapter is attached to this unit when shipped from the factory. When the adapter is removed, store it in a safe place.

INTRODUCTIONS

InitialS ettings

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. (rs page 50)

ForDD X790/DDX770/DDX7070BT:



ForDD X470/DDX4070BT/DDX3070:



For DDX370:



| Language | Select the text language used for on-screen information. (*** page 52) • Set < GUI Language > to display the operation buttons and menu items in the selected language ([Local]: initially selected) or English ([English]). |
|--------------------|--|
| Angle *1 | Adjust the panel angle. (™page 11) |
| AV Input | Select an external component to play — [AV-IN2] or [iPod]. (See page 52) |
| External BUS *2 | Select the component connected to EXT I/F input terminal — [OEM] for ADS adapter or [SXi] for SiriusXM Connect Vehicle Tuner. (FSF page 52) |
| R-CAM Interrupt | Select [ON] when connecting the rear view camera. (1287 page 52) |
| Panel Color | Select the color of the buttons on the monitor panel. (FSF page 45) |

2 Finish the procedure.



^{*1} Onlyf or DDX790/DDX770/DDX7070BT.

^{*2} Onlyf or DDX370.

Updating the system

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

1 Create an update file, copy it to a USB device, and connect it to the unit.

To connect a USB device, ™p age8 2.

2 On <Top Menu>:



3



4





It may take a while. If the update has been complete successfully, "Update Completed" appears. Reset the unit.

- · 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 update, you can restart the update after the power is turned on. The update will be performed from the beginning.

Activating the security function

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

On <**Top Menu**>:

MENU



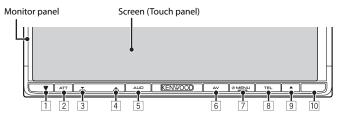


The security indicator on the monitor panel flashes when the vehicle ignition is off.

To cancel, select [OFF].

Component names and functions

DDX790/DDX770/DDX7070BT



- Reset button/Power indicator/Security indicator
 - Resets the unit. (reg page 3)
 - · Lights up while the unit is turned on.
 - Flashes when the security function is activated. (page 7)
- 2 ATT button (Press)

· Attenuates the sound.

V.OFF button (Hold)

- Turns off/on the screen. (☞ page 12)
- 3 VOLUME <u></u> (down) button (☞ page 11)
 - · Decreases the volume.
- 4 VOLUME ♠ (up) button (☞ page 11)
 - Increases the volume.
- 5 AUD button (Press)
 - Displays the <Tone> screen. (
 page 43)

R-CAM button (Hold)

 Displays the picture from the rear view camera.

- 6 AV button (Press)
 - Displays the current source screen.
 AV OUT button (Hold)
 - Selects the AV source for external monitor or amplifier.
- 7 (1) MENU button
 - Turns off the power. (Hold)
 - · Turns on the power. (Press)
 - Displays the <**Top Menu**> screen. (Press) (r page 13)
- 8 TEL button (Press)
 - Displays the < Handsfree > screen. (rs
 page 60)

VOICE button (Hold)

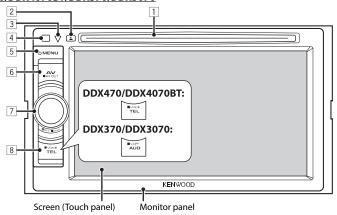
- - Ejects the disc (Tilts the monitor panel fully)
 - · Opens/Closes the monitor panel.
- 10 Remote sensor

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.

You can change the color of the buttons on the monitor panel. (1887 page 45)

DDX470/DDX4070BT/DDX370/DDX3070



- 1 Loading slot
- 2 ▲ (Eiect) button
 - · Ejects the disc.
- 3 Reset button/Power indicator/Security indicator
 - Resets the unit. (response 3)
 - · Lights up while the unit is turned on.
 - · Flashes when the security function is activated. (r page 7)
- 4 Remote sensor
- 5 (I) MENU button
 - Turns off the power. (Hold)
 - Turns on the power. (Press)
 - Displays the <Top Menu> screen. (Press) (**r** page 13)
- 6 AV/AV OUT button
 - Displays the current source screen. (Press)
 - · Selects the AV source for external monitor or amplifier. (Hold)

7 For DDX470/DDX4070BT:

VOL/ATT/AUD knob (™ page 11)

- Attenuates the sound. (Press)
- Adjusts the audio volume. (Turn)
- Displays the <Tone> screen. (Hold) (IST page 43)

For DDX370/DDX3070:

VOL/ATT knob (

page 11)

- · Attenuates the sound. (Press)
- Adjusts the audio volume. (Turn)

8 For DDX470/DDX4070BT:

TEL/VOICE button

- Displays the < Handsfree > screen. (Press) (page 60)
- · The function of the button when held varies depending on the <TEL Key **Long Press**> setting (■p age5 3).

For DDX370/DDX3070:

AUD/V.OFF button

- Displays the <Tone> screen. (Press) (IST page 43)
- · The function of the button when held varies depending on the < AUD Key Long Press> setting (rep age 53).

Setting the clock

1 Display the <Top Menu> screen.

On the source control screen:



2 Display the <Setup> screen.



3 Display the <Clock> screen.





4 Set the clock time.



| NAV* | Synchronizes the clock time with the connected navigation unit. |
|----------------------|---|
| Radio Data System | Synchronizes the clock time with FM RBDS. |
| OFF | Sets the clock manually. (☞ below) |

When selecting < OFF>:



- Adjust the hour
- 2 Adjust the minute

[Reset]: Sets the minute to "00." Example:

> AM 3:00 - AM 3:29 → AM 3:00 AM 3:30 - AM 3:59 → AM 4:00

Finish the procedure.



 Only for DDX7070BT/DDX4070BT/DDX3070. Appears only when the navigation unit is connected.

Common operations

Turning on the power

DDX790/DDX770/DDX7070BT ⊕ MENU DDX470/DDX4070BT/ **OMENU** DDX370/DDX3070

Turning off the power

DDX790/DDX770/ DDX7070BT



DDX470/DDX4070BT/ DDX370/DDX3070

Adjusting the panel angle

(Onlyf or DDX790/DDX770/DDX7070BT) You can change the panel angle.

Select an angle (0 - 6).



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

Adjusting the volume

To adjust the volume (00 to 35) DDX790/DDX770/DDX7070BT



DDX470/DDX4070BT/DDX370/DDX3070



To attenuate the sound DDX790/DDX770/DDX7070BT



DDX470/DDX4070BT/ DDX370/DDX3070

The ATT indicator lights up.

To cancel the attenuation, press the same button again.

Putting the unit in standby

1



2





Turning off the screen

DDX790/DDX770/ DDX7070BT

DDX470/DDX4070BT*1



DDX370/DDX3070*2

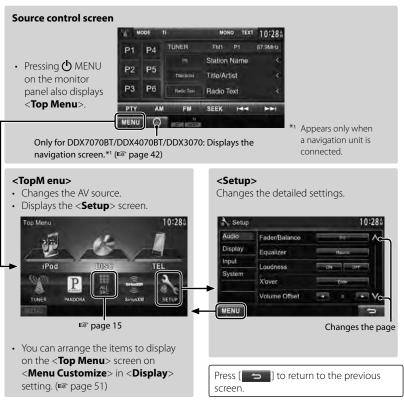


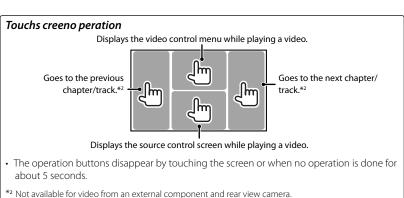
The screen is turned off.

To turn on the screen, press () MENU.

- · You can also turn on the screen by touching the display.
- *1 This operation works only when <**TEL Key Long** Press> is set to [V-OFF]. (Propage 3)
- *2 This operation works only when <**AUD Key** Long Press> is set to [V-OFF]. (Propage 3)

Switchings creens





AV SOURCE OPERATIONS

Selecting the playback source



- To display all sources and items, page 15.
- · You can change the items (other than [SETUP]) to display on the <Top Menu> screen. (rs page 15)

| NAV* ¹ (ເ page 42) | Displays the navigation screen when a navigation unit is connected. |
|---|--|
| DISC (ISS page 16) | Plays a disc. |
| TUNER (r page 28) | Switches to the radio broadcast. |
| iPod *² (r page 25) | Plays an iPod/iPhone. |
| USB (☞ page 23) | Plays files on a USB device. |
| PANDORA*³ (rs page 38) | Switches to the Pandora broadcast. |
| SiriusXM*3 *4 (ISS page 31) | Listen to SiriusXM™ channels. |
| TEL *5(I page 60) | Displays the phone control screen. |
| Bluetooth*5 (☞ page 65) | Plays a Bluetooth audio player. |
| AV-IN 1/AV-IN 2 *² (™ page 41) | Switches to an external component connected to AV-IN1 and iPod/AV-IN2 input terminals. |
| OEM Features* ⁴ (© page 83) | Switches to the sources via connected ADS adapter. |

^{*1} Only for DDX7070BT/DDX4070BT/DDX3070. When no navigation unit is connected, "No Navigation"

- *2 Select an appropriate input setting on <**AV Input**>. (FF page 52)
- *3 Only for DDX790/DDX770/DDX470/DDX370.
- *4 Only for DDX370: select an appropriate input setting on < External BUS>. (ISS page 52)
- *5 Onlyf or DDX790/DDX770/DDX7070BT/DDX470/DDX4070BT.

Displaying the source control screen

On video playback screen



 The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.

Displaying all sources and items

On <Top Menu>:



DDX790/DDX770/DDX470



DDX7070BT/DDX4070BT



DDX370



DDX3070



Customizing the <Top Menu> screen

You can arrange the items to display on the <Top Menu> screen.

On <Top Menu>:



2



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



4 Repeat step 3 to place icons for other items.

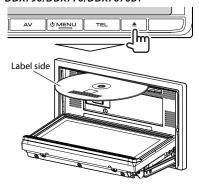
Disco perations

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.

Inserting a disc

DDX790/DDX770/DDX7070BT



DDX470/DDX4070BT/DDX370/DDX3070



The source changes to "DISC" and playback starts.

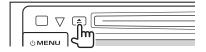
- The IN indicator lights up while a disc is inserted.
 - If "\(\infty\)" appears on the screen, the unit cannot accept the operation you have tried to do.
 - In some cases, without showing "\(\infty\)," operations will not be accepted.
 - · When playing back a multi-channel encoded disc, the multi-channel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

Ejecting a disc

DDX790/DDX770/DDX7070BT



DDX470/DDX4070BT/DDX370/DDX3070



- 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.

When removing a disc, pull it horizontally.

Closing the monitor panel (Only for DDX790/DDX770/ DDX7070BT)

After removing the disc, press \triangle (eject) button again. The monitor panel closes.

| Disc type | Recording format, file type, etc. | Playable |
|--|--|-------------|
| DVD | DVD-Video*1 Region Code: • For DDX790/DDX770/DDX470/DDX370: 1 • For DDX7070BT/DDX4070BT/DDX3070: 4 | √ ок |
| | DVD-Audio/DVD-ROM | ×NO |
| DVD Recordable/ | DVD-Video | |
| Rewritable (DVD-R/-RW*2, +R/+RW*3) | DVD-VR*4 | |
| DVD Video: UDF bridge | DivX*5/MPEG1/MPEG2 | √ ок |
| DVD-VR DivX*5/MPEG1/MPEG2/ | JPEG | |
| JPEG/MP3/WMA/WAV/ | MP3/WMA/WAV/AAC | |
| AAC: ISO 9660 level 1, level 2, Romeo, Joliet | MPEG4/DVD+VR/DVD-RAM | ×NO |
| Dual Disc | DVD side | √ ОК |
| | Non-DVD side | XNO |
| CD/VCD | DTS-CD/Audio CD/CD Text (CD-DA) | √ок |
| | VCD (Video CD) | |
| | SVCD (Super Video CD)/CD-ROM/CD-I (CD-I Ready) | ×NO |
| CD Recordable/ Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet | CD-DA | |
| | VCD (Video CD) | |
| | DivX*5/MPEG1/MPEG2 | √ок |
| | JPEG | |
| | MP3/WMA/WAV/AAC | |
| | MPEG4 | XNO |

^{*1} If you insert a DVD Video disc of an incorrect Region Code, "Region code error" appears on the screen.

Caution for DualDisc playback

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

^{*2} DVD-R recorded in multi-border format is 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 its disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

^{*4} This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).

^{*5} Playable only for DDX7070BT/DDX4070BT/DDX3070.

Playbacko perations

To display the source control screen, page 14.

ForD VD/DVD-VR/VCD/DivX/MPEG1/MPEG2/JPEG



- DVD Video: Title no./Chapter no.
- DVD-VR: Program no. (or Playlist no.)/Chapter no.*1
- DivX/MPEG1/MPEG2: Folder no./ Track no.
- · JPEG: Folder no./File no.
- · VCD: Track no.

File type (for DivX/MPEG1/MPEG2/JPEG)

Playback mode

| [Q] [X]*2 | Selects playback mode. (☞ page 21) |
|--------------------|--|
| [> II] | Starts/pauses playback. |
| [■]*3 | Stops playback. |
| | Selects a chapter/track. (Press) Reverse/forward search.*4 (Hold) |

| | Reverse/forward search during playback.*4 Plays back in slowmotion during pause. |
|----------|--|
| [MODE]*5 | Enters the <disc mode=""></disc> settings. (☞ page 22) |
| [MENU] | Displays the <top menu=""></top> screen. |

• For DivX/MPEG1/MPEG2/JPEG, the following buttons also appear:

| Selects a folder. |
|-------------------|
| |

| Displays the folder/track |
|---------------------------|
| list. (🖙 page 19) |

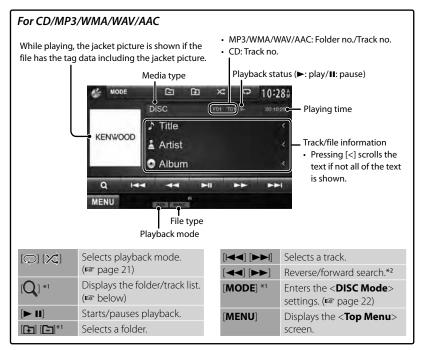
^{*1} To display the Original Program/Playlist screen, ₱ page 20.

^{*2} Does not appear for DVD/DVD-VR/JPEG.

^{*3} Appears only for DVD/DVD-VR/VCD.

^{*4} Search speed varies depending on the type of disc or file.

^{*5} Does not appear for VCD.



^{*1} Does not appear for CD.

Selecting folder/track on the list



Playing Recordable/Rewritable discs

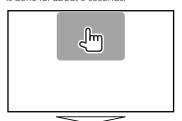
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- · Some discs or files may not be played back due to their characteristics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

^{*2} Search speed varies depending on the type of disc or file.

Video menu operations

You can display the video menu screen during video playback.

- · Available items on the screen differ depending on the types of the loaded disc and playback files.
- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.





· The screen for MPEG1/MPEG2 differs from the above.



| ZOOM | Displays the picture size selecting screen. (For page 48) |
|-------------------|--|
| Aspect | Selects the aspect ratio. (respage 48) |
| Picture Adjust | Displays the picture adjustment screen. (For page 47) |
| Audio | Selects the audio type. • For DVD-VR: Selects the audio channel (ST: stereo, L: left, R: right). |
| Subtitle | Selects the subtitle type. |
| Angle | Selects view angle. |
| MENU | Displays the disc menu (DVD)/playlist (DVD-VR). |
| T MENU | Displays the disc menu (DVD)/original program (DVD-VR). |
| Highlight | Switches to the direct disc menu mode. Press the target item to select. To restore the screen, press AV on the monitor panel. |
| CUR | Displays the menu/playlist/ original program item selecting screen. • [▲] [▼] [◄] [►]: Selects an item. – For DivX only [◄] [►]: Skips back or forward by about 5 minutes. • [ENTER]: Confirms the selection. • [RETURN]: Returns to the previous screen. |

Only for VCD





Direct selecting buttons ([™] below)

| ZOOM | Displays the picture size selecting screen. (page 48) |
|-------------------|--|
| Aspect | Selects the aspect ratio. (☞ page 48) |
| Picture Adjust | Displays the picture adjustment screen. (☞ page 47) |
| MENU | Displays the disc menu. |
| Audio | Selects the audio channel (ST: stereo, L: left, R: right). |
| Direct | Displays/hides the direct selecting buttons. (☞ below) |
| Return | Displays the previous screen or the menu. |

· To select a track directly



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

• To deactivate the PBC function, press [■] then the direct selecting buttons to select a track number.

Selecting playback mode

For DVD/DVD-VR

Selects Repeat playback mode



For VCD (without PBC)/CD/DivX/MPEG1/ MPEG2/MP3/WMA/WAV/AAC

Selects Repeat playback mode* Selects Random playback mode* DISC

- 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 lights up.)
 - Available items differ depending on the types of loaded disc and playback file.

| Indicator | Playback mode |
|-----------|---|
| C-REP | Repeats current chapter. |
| T-REP | Repeats current title/ program. |
| REP | Repeats current track. |
| FO-REP | Repeats all tracks of the current folder. |
| RDM | Randomly plays all tracks. |
| FO-RDM | Randomly plays all tracks of current folder, then tracks of next folders. |

To cancel, press the button repeatedly until the indicator disappears.

<DISC Mode> settings



| Disc Setup items | | Selectable setting/item | | Initial: <u>Underlined</u> |
|--|--------------------------|---|--|--|
| For DVD/DVD-VR | Menu Language | Select the initial dis- | c menu language; Initial Eng | <u>ılish</u> (☞ page 73). |
| | Subtitle Language | Select the initial subtitle language or erase the subtitle (OFF) (Fig. page 73). Initial for DDX7070BT/DDX4070BT/DDX3070: English, for DDX790/DDX770/DDX470/DDX370: OFF | | |
| | Audio Language | Select the initial audio language; Initial English (🖙 page 73). | | |
| | Down Mix | | a multi-channel disc, this set through the front and/or rea : Select this to enjoy multi- audio with Dolby Surrour : Normally select this. | ar speakers. channel surround |
| | Dynamic Range Control | You can change the software. ◆ Wide ◆ Normal ◆ Dialog | Select this to enjoy a pow volume level with its full of little. Select this to reduce the of little. Select this to reproduce the of little. | verful sound at a low dynamic range. dynamic range a |
| For discs except VCD/CD | Screen Ratio | Select the monitor external monitor. • 16:9 | type to watch a wide screen ◆ 4:3 LB (Letterbox) ◆ 4 | picture on the |
| For discs containing audio/video/picture files | File Type | files. Audio Still Image Video Audio&Video For playable file ty If the disc contain | File type when a disc contain Plays back audio files. Plays back JPEG files. Plays back DivX/MPEG1/N Plays back audio files and files. ppes, page 17. Is no files of the selected type following order: audio, video | MPEG2 files. DivX/MPEG1/MPEG2 e, the existing files |

USBo perations

Playing a USB device

- This unit can play JPEG/DivX*/MPEG1/ MPEG2/MP3/WMA/WAV/AAC files stored in a USB mass storage class device.
- 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.
- * Playable only for DDX7070BT/DDX4070BT/ DDX3070.

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.

- · You cannot connect a computer or portable HDD to the USB input terminal.

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 [♠], then disconnect the USB device after "No Device" appears.

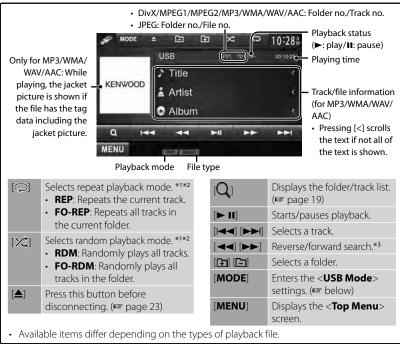
Cautions:

- · 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 the USB card reader.
- · When connecting with a USB cable, use the USB 2.0 cable
- The maximum number of characters:
 - Folder names: 50 characters
 - File names: 50 characters
- · Avoid using the USB device if it might effect 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 temperature to avoid deformation or damage to the device.

- To display the source control screen,

 page 14.
- To change settings for video playback,

 page 20.



^{*1} To cancel random or repeat mode, press the button repeatedly until the indicator disappears.

<USB Mode> settings

Setting <Screen Ratio>

Select the monitor type to watch a wide screen picture on the external monitor.



Setting < Drive Select>

Press [**Next**]. Switches between internal and external memory source of the connected device (such as mobile phone).

Setting <File Type>

| Audio | Plays back audio files. | | |
|-------------|--|--|--|
| Still Image | Plays back JPEG files. | | |
| Video | Plays back DivX/MPEG1/ MPEG2 files. | | |
| Audio&Video | Plays back audio files and DivX/MPEG1/MPEG2 files. | | |

 If the USB device contains no files of the selected type, the existing files are played in the following order: audio, video, then still image.

^{*2} You cannot activate the repeat mode and the random mode at the same time.

^{*3} Search speed varies depending on the type of disc or file.

Listening to the iPod/iPhone device

Preparation

- - When connecting iPhone/iPod touch, turn off App beforehand; otherwise the playback may not be started after connection
- · Use the following cables:
 - To watch the video and to listen to the music (analog): USB Audio and Video cable for iPod/iPhone—KCA-iP202 (optional accessory)
 - To listen to the music (digital): USB Audio cable for iPod/iPhone—KCA-iP102 (optional accessory)
- Select appropriate input settings on <AV **Input**> according to the connection method (the right column)
- Do not use extension cables

iPod/iPhone that can be connected to this unit[.] Made for iPod with video

- iPod classic
- iPod nano (6th Generation)
- iPod nano (5th Generation)
- iPod nano (4th Generation)
- iPod nano (3rd Generation)
- iPod touch (4th Generation)
- iPod touch (3rd Generation) iPod touch (2nd Generation)
- iPod touch (1st Generation)
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

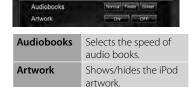
Settings for iPod playback

When the source is "iPod"

1



Pod Mode



10:284

Setting <AV Input> for iPod/iPhone playback

You can change the setting only when [STANDBY] is selected on <Top Menu>. (**r** page 12)

On <Top Menu>:



2





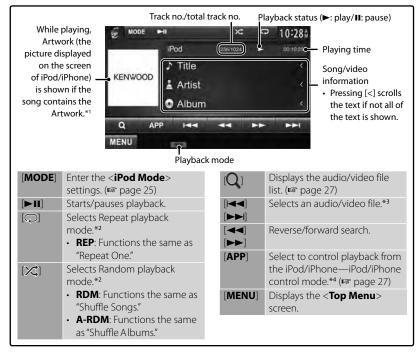
| AV-IN2 | Select this when connecting the iPod/iPhone using the USB Audio cable for iPod/ iPhone. | |
|--------|--|--|
| iPod | Select this when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone | |

iPod/iPhone playback operations from the unit

- To display the source control screen,

 page 14.
- To change settings for video playback,

 page 20.



- *1 For changing the Artwork display setting,

 page 25.
- *2 To cancel random or repeat mode, press the button repeatedly until the indicator disappears. Not available in iPod control mode. (**) page 27)
- *3 Resume playback is unavailable for video files.
- *4 When using iPod with video, you can control playback only from the unit.
- When you turn on this unit, the iPod/iPhone is charged through the unit.
- The text information may not be displayed correctly.
 - 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 is slow, reset your iPod/iPhone.
 - For the latest compatible list and software version of iPod/iPhone, see: www.kenwood.com/cs/ce/ipod

Selecting an audio/video file from the menu



- 2 Select the menu (audio or video) (1), a category (2), then a desired item (3).
 - · Select the item in the selected laver until a desired file starts playing.

Audio menu:

Returns to the top layer



Changes the page

Starts folder playback

Video menu:



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

Controlling playback from the iPod/iPhone

You can play back the audio/video files or use App by operating iPod/iPhone itself instead of the unit.



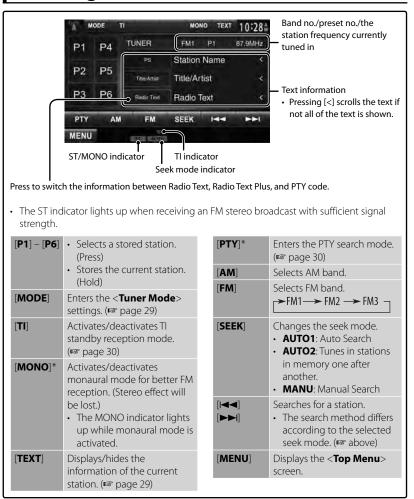
 When you are using Garmin StreetPilot® Onboard, the screen appears, For Garmin StreetPilot® Onboard for iPhone, visit the Garmin web site: www.garmin.com

Garmin App:



- · The current position of your vehicle appears on the map. When the vehicle runs, the map scrolls.
- · The screens of the iPhone and unit are not the same.
- To return to the normal mode, press [APP].

Listening to the radio



^{*} Appears only when FM is selected as the source.

Changing the display information



PS (station name) for FM RBDS when PS signal is coming in



Storing stations in memory

You can preset six stations for each band.

Automaticp resetting—AME(Auto Memory)

1



2



Local stations with the strongest signals are searched and stored automatically.

Manualp resetting

- Tune in to a station you want to preset. (158 page 28)
- 2 Select a preset number.



The station selected in step 1 is stored.

Selecting a preset station



The following features are available only for FM RBDS stations.

Searching for FM RBDS program—PTY Search

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

1



Select a PTY code.



Changes the page

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.

Activating/deactivating TI **Standby Reception**



TI indicator

| TI indicator | TI Standby Reception |
|------------------|--|
| Lights in white | The unit will temporarily switch to Traffic Information (TI) if available. |
| Lights in orange | Not yet activated. Tune in to another station providing the RBDS signals. |
| Goes off | Deactivated. |

· 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.

Listening to the SiriusXM™ Satellite Radio

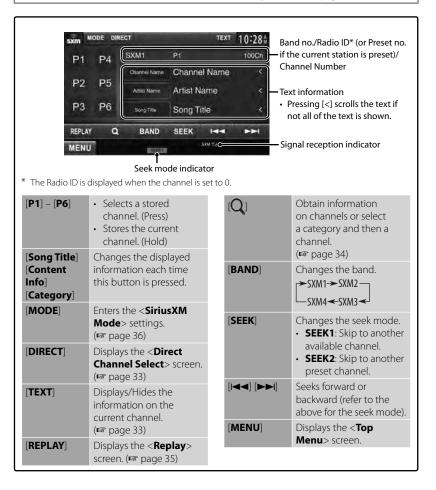
(Only for DDX790/DDX770/DDX470/DDX370)

Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. To start listening to the SiriusXM™ Satellite Radio, a SiriusXM Connect Vehicle Tuner (sold separately) and subscription are required. For more information, visits www.siriusxm.com.

Only for DDX370

 $\label{preparation:select} \textbf{Preparation:} \ Select < \textbf{SXi} > \text{for} < \textbf{External BUS} > \text{while } [\textbf{STANDBY}] \ \text{is selected on} < \textbf{Top}$

Menu> so that <SXi> is selectable as the source on <Top Menu> (☞ page 52).



Radio activation

SiriusXM Satellite Radio operation requires the connection of the optional SiriusXM Connect Vehicle Tuner (sold separately). To activate the SiriusXM Connect Vehicle Tuner, vou will need the Radio ID.

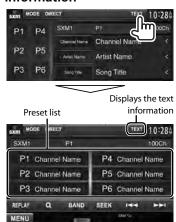
- Make a note of your Radio ID. For each SiriusXM Connect Vehicle Tuner. peculiar Radio ID is assigned. To confirm your Radio ID, tune to channel 0.
 - The letters I, O, S and F are not used in any Radio ID.
- 2 Activate your SiriusXM Service:

Go to www.siriusxm.com/ activatenow or call 1-866-635-2349 to activate your SiriusXM Connect Vehicle Tuner.

3 When the following screen appears, press [Enter].



Changing the display information



Storing channels in memory

You can preset six channels for each band. (24 in total)

- 1 Tune in to a channel you want to preset. (Fig. page 31)
- 2 Select a preset number.



The channel selected in step 1 is stored.

Selecting a preset channel



Selecting a channel directly



- 2 Enter a channel no. (1), and then confirm (2).
 - To clear the entry, press [Clear].
 - To cancel selecting the channel, press [Cancel].



Displaying information on channels

You can obtain information on channels or select a category and then a channel.

1



2 Select [Preset List] or [Channel List].



3

Preset List

Select a band (1) and then a preset channel (2).



Channel List

Select a category (1) and then a channel ((2)).



Changes the page

- To list all the channels, select [All Channels].
- Pressing the info change button above the list displays information in the following order:

Channel Name → Artist Name → Song Title → Content Info

Info change button



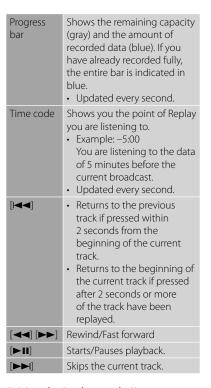
Using the Replay function

You can temporarily record the broadcast from the current time, and replay the recorded data.

- · When the recording capacity is full, the older recorded data is deleted and recording continues.
- · If you change to another channel during playback, the recorded content will be lost.

Entering the Replay mode





Exiting the Replay mode (Returning to the channel reception screen)



Setting the reception restrictions

Display the **SiriusXM Mode**> screen to configure the settings.



Setting the parental lock

You can set the parental lock or parental mature lock in order to, for example, restrict children from receiving adult channels.

Setting/Changing the parental code

 Changing the code does not change the <Parental Mature Lock>/<Parental Lock Channel >/< Channel Skipping> settings.



- 2 Enter a four-digit code (1), and then confirm (2).
 - To clear the entry, press [Clear].
 - To cancel setting the code, press [Cancel].



· The initial setting is "0000".

- 3 Enter a new four-digit code (1), and then confirm (2).
 - To clear the entry, press [Clear].
 - To cancel setting the code, press [Cancel]



4 Enter the four-digit code and then press [Enter] again to confirm the code.

Activating/Deactivating the parental mature lock

You can set the parental lock on channels classed as "adult" by SiriusXM™.

- To enable the parental control based on Mature channels, press [ON] next to <Parental Mature Lock>.
- · To release the lock, press [OFF].



Enter the parental code to confirm your choice

Activating the parental lock on each channel

This parental control option allows you to pick the channels to be locked by the parental control feature.

1



- **2** Enter the parental code.
- 3 Select a category (1) and then a channel (2).
 - To list all the channels, select [All Channels.
 - A checkmark appears beside the selected channel.



Repeat this step if you want to set the lock on multiple channels.

 Checkmarks appear beside the locked channels, and the channels are disabled.

Deactivating the parental lock



Enter the parental code. All the locked channels will be deactivated.

Skipping unwanted channels

If you do not want to receive some channels, you can skip them.

Activating the channel skipping



- 2 Select a category (1) and then a channel (2).
 - To list all the channels, select [All Channels .
 - A checkmark appears beside the selected channel.



Repeat this step if you want to skip multiple channels.

Clearing the channel skipping

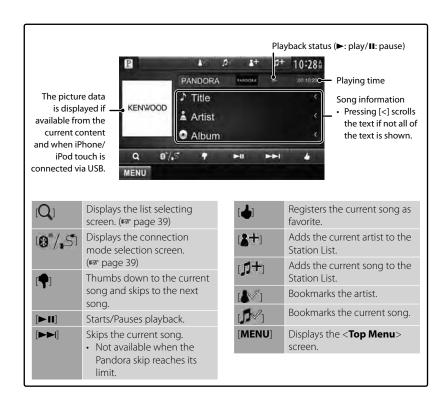


All the skipped channels will be cleared.

|Pandora®o perations

(Only for DDX790/DDX770/DDX470/DDX370)

- You can operate Pandora using the remote controller. Only playing, pausing, and skipping are available.
- Install the latest version of the Pandora application on your iPhone/iPod touch/Android/ BlackBerry.



Selecting a device to connect for Pandora reception (Only for DDX790/ DDX770/DDX470)

You can connect the device for Pandora reception either with Bluetooth connection or wired connection. Select the connecting method.

- For Bluetooth connection, For page 56.



| Bluetooth | Selects to connect Android/ BlackBerry via Bluetooth. |
|-----------|--|
| Wired | Selects to connect iPhone/iPod touch via USB. |

Selecting a station from the list

Display the list selecting screen.



Select the list type.



| Station | Selects from the station | |
|---------------|--|--|
| List | names (Station List). | |
| Genre List | Selects from the genre names (Genre List). | |

3 Select a station from the list.

On the Station List:



On the Genre List: Select a genre (1), then a station (2).



Changes the page

Requirements for Pandora®

iPhone or iPod touch

- Use an Apple iPhone or iPod touch running under iOS3 or later.
- 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 current version.)
- Connect iPhone/iPod touch to this unit with a KCA-iP202

Android™

- · Visit the 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 available only in the U.S./Australia/New Zealand.
- Because Pandora is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora cannot be operated from this unit.
- For issues using the application, please contact Pandora at pandora-support@pandora.
- Establish an internet connection by LTE, 3G, EDGE, or WiFi.

Using other external components

AV-IN

To display the source control screen, is page 14.



You can connects external components to the AV-IN1 and iPod/AV-IN2 input terminals.

Preparation:

If you want to use "AV-IN2", select [AV-IN2] for <AV Input> setting. (Page 5 2)

- No preparation is required for "AV-IN1".
- 1 Connect external components to AV-IN1 and iPod/AV-IN2 input terminals.

To connect external components, ■p ages 82and 8 3.

- 2 Select "AV-IN 1" or "AV-IN 2" as the source. (page 14)
- **3** Turn on the connected component and start playing the source.

Using the external navigation unit

(Only for DDX7070BT/DDX4070BT/DDX3070)

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

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

To view the navigation screen

On <Top Menu>:



or

On any screen:



The navigation screen is activated.

- · While the navigation screen is displayed, the touch panel operations are available only for using navigation function.
- The aspect ratio of the navigation screen is fixed to <**FULL**> regardless of the <Aspect> setting (see page 48).

To cancel the navigation screen DDX4070BT/

DDX7070BT





Settings for navigation unit

On <Top Menu>:



2



| * Setup | | | 10:28 |
|---------|-----------------|-------|-------------|
| Audio | AV Input | AVAIN | Pot |
| Display | R-CAM Interrupt | ON | OFF |
| Input | Navigation | - | |
| System | ivavigacen | | سالہ |
| | | | ς |

3



| Guidance | Select front speakers 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. |
| NAV Setup | Press [Enter] to display the setup screen for the navigation unit. See the instruction manual supplied for the navigation unit. |

Sound adjustment

Using the sound equalization

- The adjustment is memorized for each source until you adjust the sound again. If the source is a disc, the adjustment is stored for each of the following categories.
 - DVD/DVD-VR/VCD
 - CD
- DivX/MPFG1/MPFG2/MP3/WMA/WAV/AAC
- · You cannot adjust the sound when the unit is in standby.
- Selecting a preset sound mode
- On <Top Menu>:



2



3 Select a sound mode.



Changes the page

Storing your own adjustment

Customizing preset sound mode

Select a sound mode.

"Selecting a preset sound mode")

2 Set <SystemQ-Ex> to [OFF] (1), then press [Tone] (2).



3 Adjust the level of each band (1), then select the subwoofer level* (2).

Selects the band



The adjustments are stored and <User> is activated

- You can also display the <Tone> screen by pressing AUD (for DDX790/DDX770/ DDX7070BT/DDX370/DDX3070)o r VOL/ ATT/AUD knob (for DDX470/DDX4070BT) on the monitor panel.
- Adjustable only when the subwoofer is activated. (**©** page 50)

Adjusting the sound precisely

Perform steps 1 and 2 of "Selecting a preset sound mode," then...



2



3 Adjust the sound of each band.

Selects the band



| Flat | Changes level of Bass/ Middle/Treble to 0. |
|-----------|---|
| Frequency | Selects frequency. |
| Level | Adjusts level. |
| Q Factor | Adjusts the width of the frequency. |
| Bass EXT | Activates/deactivates bass. |
| SW Level | Adjusts subwoofer level.* |

The adjustments are stored and <User> is activated.

Adjustable only when the subwoofer is activated. (**©** page 50)

Adjusting the crossover frequency

1 On <Top Menu>:



2



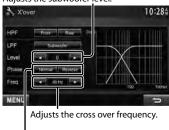
3 Select the item to adjust, then make adjustment.

Adjusts the crossover for front or rear speakers (high pass filter).



Adjusts the crossover for subwoofer (low pass filter).*1

Adjusts the subwoofer level.



*1 Adjustable only when the subwoofer is activated. (FSP page 50)

Selects the phase for the subwoofer. *2

*2 Not selectable when < Freq > is set to <Through>.

Changing the display design

You can change the background and panel color.

On <Top Menu>:



2





3 Select an item to change ([Background] or [Panel Color]).



4 Select a background/panel color.

To select a background



For setting your favorite scene as the background, ISS page 46

To select a panel color

Variable color illumination

· Illumination color changes gradually.



For making your own color adjustment, ு below

Making your own color adjustment

 You can make your own color adjustment only when < User> is selected.



2 MENU

User color adjuster: You can make your own color adjustment stored in < User>.



Dimmer setting: You can make the color adjustment for each dimmer setting.

Using your favorite scene as the background

While playing a video or JPEG, 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 600 pixels.
- The color of the captured image may look different from that of the actual scene
- Play a video or JPEG.
- 2 Display the <User Customize> screen. (FSF page 45)

3



4 Adjust the image.



Starts/Pauses playback. [►II]*

[▶]* Advances scenes frame-byframe.

[ᡚ] Magnifies the scene. (<OFF>, <Zoom1> -<**Zoom3**>)

[▲] [▼] Moves the zooming frame.

- To cancel the capture screen, press [Cancel].
- Not displayed when playing an external component connected to AV-IN1 or iPod/ AV-IN2 input terminal.

5 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.

Setting for video playback

You can change the setting for video playback.

Pictureadi ustment

You can adjust the picture quality.

Display the adjustment menu.





2 Select [DIM ON] (dimmer on) or [DIM OFF] (dimmer off).



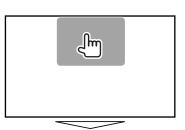
Adjust the picture (-15 to +15).



* Adjustable only when the incoming signal is NTSC.

Changing the aspect ratio

You can change the aspect ratio for video playback.





2



| | 4:3 signal | 16:9 signal |
|--|------------|---------------|
| FULL*: For 16:9 original pictures | ွိံ | °0° |
| JUST: For 4:3LB original pictures | ္မိုင္ | 000 |
| Normal*: For 4:3 original pictures | °C° | $^{\circ}$ |
| Auto: | The aspec | ally selected |

^{*} While DivX is played back with <Screen Ratio> set to <16:9> (for disc: 🖙 page 22/ for USB: 🖙 page 24), the aspect ratio is not set correctly.

incoming signals.

Zoomingp icture

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

• When < Aspect > is set to < JUST > or < Auto > (the left column), the picture is zoomed with the aspect ratio of the <**FULL**> setting.





2



 $[\blacktriangle]$ $[\blacktriangledown]$ $[\blacktriangleright]$: Moves the zooming frame.

Using a rear view camera

 To use a rear view camera, the REVERSE lead connection is required. For connecting a rear view camera, sp age 83.

Activating the rear view camera

On <Top Menu>:



2





To deactivate, select [OFF].

Displaying the picture from the rear view camera

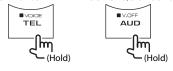
The rear view screen is displayed when you shift the gear to the reverse (R) position.



· To erase the caution message, touch the screen.

To display the picture from the rear view camera manually







When displaying the picture from the rear view camera manually, you can change the setting of the picture. (pages 47 and 48)

To erase the rear view screen, press and hold the same button again.

- *1 This operation works only when <**TEL Key Long** Press> is set to <R-CAM>. (138°p age5 3)
- *2 This operation works only when < AUD Key Long Press> is set to <R-CAM>. (FSP p age5 3)

Setting menu items



• You cannot change <Audio> settings when [STANDBY] is selected on <Top Menu>. (r page 12)

| Menu item | | Selectable setting/item | Initial: Underlined |
|-----------|---|--|---|
| | Fader/Balance 19:281 Tester 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Fader: Adjust the front and rear spe ◆ F6 to R6; Initial <u>0</u> • When using a two-speaker system center (<u>0</u>). Balance: Adjust the left and right sp. ◆ L6 to R6; Initial <u>0</u> Press [▲/▼/◄/▶] or drag [⊕] to ac. • To clear the adjustment, press [Celebrate Speaker Spea | , set the fader to the peaker output balance. ljust. |
| | Equalizer | Change the sound mode or adjust a for each source. (♣ page 43) ◆ Natural/Rock/Pops/Easy/Top40 | · |
| Audio | Loudness | | |
| | X'over | Adjust the crossover frequency. (🖙 p | page 44) |
| | Volume Offset | Adjust and store the auto-adjustmen source. (For discs, the adjustment is stollowing categories: DVD/DVD-VR/VMPEG1/MPEG2/MP3/WMA/WAV/AAI automatically increase or decrease w source. • -15 to +6; Initial 0 | stored for each of the /CD, CD, and DivX/ C.) The volume level will |
| | Subwoofer | ◆ <u>ON</u> : Activates the sub ◆ OFF : Cancels. | woofer. |
| | Speaker Select | Select the size of the connected spece Standard/Narrow/Middle/Wide | |

| Menu item | | Selectable settin | g/item | Initial: <u>Underlined</u> |
|----------------------------|---|--|--|----------------------------|
| | Dimmer | ♦ ON | when you turn on The ILLUMI lead (For page 81) Activates dimmer. Cancels. Activates or deact according to the company | connection is required. |
| | User Customize | Change the displa page 45) | y design (backgroun | d and panel color). (🖙 |
| | OSD Clock | ◆ ON : Displays the clock while a video source is played back. ◆ OFF : Cancels. | | while a video source is |
| Display | Scroll | Once OFF | : Repeats scrolling.: Scrolls the display: Cancels.: Cancels the text regardles | ed information once. |
| | Menu Customize | Change the items page 15) | to display on the < T | op Menu> screen. (🖙 |
| Select adjust ◆ Brig | | Select the dimme adjustment, then | for < DIM ON >/ <u>+1</u> | or < DIM OFF >) for |
| | Video Output* | Select the color sy • NTSC/PAL | stem of the external | monitor. |
| | Angle Only for DDX790/ DDX770/DDX7070BT | Adjust the panel a | ngle. (🖙 page 11) | |

^{* &}quot;Please power off" appears when the setting is changed. Turn off the power, then turn on to enable the change.

| Me | nu item | Selectable set | ing/item | Initial: <u>Underlined</u> |
|--------|--|--|--|--|
| | AV Input | You can determ ◆ AV-IN2 ◆ <u>iPod</u> | : Select to pla to the iPod//: Select when using the US | e iPod/AV-IN2 input terminal. y an AV component connected AV-IN2 input terminal. connecting the iPod/iPhone B Audio and Video cable for (ISP page 82) |
| | R-CAM Interrupt | ◆ ON | camera whe reverse (R) p | picture from the rear view n you shift the gear to the osition. then no camera is connected. |
| Input | External BUS* Only for DDX370 | ◆ <u>SXi</u> ◆ OEM | Vehicle Tune : Enables conf adapter. Sele is connected | when a SiriusXM Connect er is connected. trol of the unit via ADS ect this when an ADS adapter d. To control sources via ADS ect [OEM Features] on <top 14)<="" page="" th=""></top> |
| | Navigation Only for DDX7070BT/ DDX4070BT/DDX3070 | Change the navigation settings. (1887 page 42) | | |
| | NAV Mute Only for DDX790/ DDX770/DDX470/ DDX370 | | ound coming out luring navigation | of speakers other than the guidance. |
| System | Language* | Select the text language used for on-screen information. • English/Spanish/French/German/Italian/Dutch/ Russian/Portuguese/Chinese-Simplified/Chinese- Traditional/Thai/Turkish/Arabic/Persian/Hebrew/ Greek/Indonesia/Korean • For external monitors, only English/Spanish/French/German/ Italian/Dutch/Russian/Portuguese are available. If another language has been selected, the text language for external monitors will be set to English. • GUI : Select a language (<english> or <local>: Language the language selected above) used for displaying operation buttons and menu items.</local></english> | | |

^{* &}quot;Please power off" appears when the setting is changed. Turn off the power, then turn on to enable the change.

| Me | nu item | Selectable setting/item Initial: <u>Underlined</u> |
|--------|--|---|
| | Clock | Adjust the clock time. (🖙 page 10) |
| | Веер | ◆ <u>ON</u> : Activates the key-touch tone. ◆ OFF : Cancels. |
| | Remote Sensor | ◆ <u>ON</u> : Activates the remote sensor. ◆ OFF : Cancels. |
| | SETUP Memory | You can memorize, recall, clear, or lock the settings you have made. (1887 page 54) |
| | Bluetooth Setup Only for DDX790/ DDX770/DDX7070BT/ DDX470/DDX4070BT | Configures settings for using a Bluetooth device, such as connection and other general operations. (page 58) |
| | OEM Bluetooth Setup Only for DDX370 | Configures settings for using a Bluetooth device, connected via ADS adapter. Press [Enter] to display the < OEM Handsfree Setup> screen. |
| | OEM Setup Only for DDX370 | Shows the information/changes the settings for using the ADS adapter. |
| System | TEL Key Long Press Only for DDX470/ DDX4070BT | Assigns the function of the TEL button when held. ◆ V-OFF : Turns off the screen. (☞ page 12) ◆ VOICE : Activates voice dialing. (☞ page 60) ◆ R-CAM : Displays the picture from the rear view camera. (☞ page 49) |
| | AUD Key Long Press Only for DDX370/ DDX3070 | Assigns the function of the AUD button when held. ◆ V-OFF : Turns off the screen. (☞ page 12) ◆ R-CAM : Displays the picture from the rear view camera. (☞ page 49) |
| | DivX(R) VOD Only for DDX7070BT/ DDX4070BT/DDX3070 | 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]. |
| | SI | Activate or deactivate the security function. (🖙 page 7) |
| | Serial Number | Displays the serial number. |
| | Touch Panel Adjust | Adjust the touch position of the buttons on screen. (1878 page 54) |
| | System Information | Displays the version information on the software. You can update the software. (** page 6) |

Memorizing/recallingt he settings

You can memorize the settings changed in the **Setup**> menu and recall the memorized settings anytime.

• The memorized settings are kept even when the unit is reset.

1 On <**Setup**>:



2



To cancel, press [No].

3 Select an operation.



[Recall]: Recalls the memorized settings. [Memory]: Memorizes the current settinas.

[Clear]: Clears the currently memorized settings.

To cancel, press [Cancel].

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
- On <Setup>:



2



To unlock the setting, press [Unlock].

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.

On <Setup>:



2 Touch the center of the marks at the lower left and at the upper right as instructed.



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

BLUETOOTH OPERATIONS

(Only for DDX790/DDX770/DDX7070BT/DDX470/DDX4070BT)

Information for using Bluetooth® devices

- While driving, do not perform complicated operations such as dialing the numbers, using phonebook, etc. When you perform these operations, stop your car in a safe place.
- Some Bluetooth devices may not be connected to this unit depending on the Bluetooth version of the device.
- This unit may not work for some Bluetooth devices.
- Connecting condition may vary depending on circumstances around you.
- When the unit is turned off, the device is disconnected.

Bluetootho perations



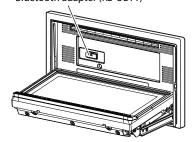
Bluetooth is a short-range wireless radio communication technology for the mobile device such as mobile phones, portable PCs, and other devices. The Bluetooth devices can be connected without cables and communicate with each other

Preparation:

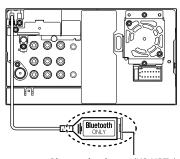
Bluetooth adapter KS-UBT1 has been attached. Connect the microphone (supplied) beforehand. (pages 81 and 85)

DDX790/DDX770/DDX7070BT

Bluetooth adapter (KS-UBT1)



DDX470/DDX4070BT



Bluetooth adapter (KS-UBT1)

Connecting Bluetooth devices

Registering a new Bluetooth device

When you connect a Bluetooth device to the unit for the first time, make pairing between the unit and the device for registration. Pairing allows Bluetooth devices to communicate each other.

- The pairing method differs depending on the Bluetooth version of the device.
 - For the device with Bluetooth 2.1. You. can pair the device and the unit using SSP (Secure Simple Pairing) which only requests confirmation.
 - For the device with Bluetooth 2.0: You need to enter a PIN code both on the device and unit for pairing.
- Once the pairing is complete, it is registered in the unit even if you reset the unit. Up to 5 devices can be registered in
- · Only one device for Bluetooth phone and one for Bluetooth audio can be connected. at a time.
- To use the Bluetooth function, you need to turn on Bluetooth function of the device.
- · To use the registered device, you need to connect the device to the unit. (page 57)

Pairing a Bluetooth device using SSP (for Bluetooth 2.1)

When the Bluetooth device is compatible with Bluetooth 2.1, pairing request is sent from the available device. Confirm the request both on the device and the unit.



Rejects the request

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

· The maximum digit of the PIN code that can be set is 16.

On <Top Menu>:



Display the <Bluetooth Setup> screen.



3 Change the PIN code.

· If you skip changing the PIN code, go to step 4.





Deletes last entry

4 Operate the Bluetooth device to complete pairing.

When pairing is complete, the device is listed on < Paired Device List>. To use the paired device, connect the device on <Paired Device List> (reg below).

- Connecting a registered Bluetooth device
- Display the <Bluetooth Setup> screen. (rs page 56)

2



Select the device you want to connect (1), then select the usage of the device ([TEL (HFP)] for mobile phone, [Audio (A2DP)] for Bluetooth audio player, and [PANDORA (SPP)] for Pandora*) (2).



- · Selectable items depend on the device you are operating.
- · If you connect a device while another device is connected, the device previously connected is disconnected and the connection for the recently connected is established.
- [PANDORA (SPP)] appears only for DDX790/ DDX770/DDX470.

- Deleting a registered Bluetooth device
- 1 Display the <Bluetooth Setup> screen. (☞ page 56)

2 10:28 3 Bluetooth Setup Paired Device List PIN Code

3 Select a device to delete (1), then delete the registration (2).



Confirmation message appears. Press [Yes].

[PANDORA (SPP)] appears only for DDX790/ DDX770/DDX470.

Setting up Bluetooth

You can perform general operations such as connection and initialization through **<Bluetooth Setup>** on the **<Setup>** menu.

3

■ Displaying the <Bluetooth Setup> screen

1 On <Top Menu>:



Audio Fader/Balance ov A
Display Equalizer Heriel
Input
System
Loudness on part







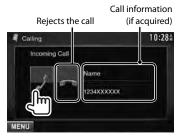
<Bluetooth Setup> menu items

| Menu items | Selectable setting/item Initial: <u>Underlined</u> | | | |
|------------------------|--|--|--|--|
| Paired Device List | | show the list of the registered device the registration (r page 57). | ces. You can connect the | |
| PIN Code | | Changes the PIN code of the unit. • Enter a new PIN code, then press [Enter]. | | |
| Device Name | Shows the device name to be shown on the Bluetooth device — "KENWOOD BT MM-7U2." | | | |
| Device Address | Shows the device address of the unit. | | | |
| Auto Connect | ◆ ON : The connection is automatically established with the last connected Bluetooth device when the unit is turned on. ◆ OFF : Cancels. | | | |
| Bluetooth HF/ Audio | Select the speakers used for Bluetooth (both phone and audio player). • Front Only • From front speakers only. • All • From all speakers. | | and audio player). | |
| Auto Pairing | ◆ <u>ON</u> ◆ OFF | : Establishes the pairing automatic iOS device (such as iPhone) even is deactivated on the device. (Aut for some devices depending on t : Cancels. | if the Bluetooth function o pairing may not work | |
| Initialize | Hold [Enter] to initialize all settings you have made for using Bluetooth mobile phone and Bluetooth audio player. | | | |

Using the Bluetooth mobile phone

Receiving a call

When a call comes in...



· Phone operation is not available while the picture from the rear view camera is displayed. (Fig. page 49)

When < Auto Response > is set to [On]

The unit answers the incoming call automatically. (rs page 64)

Ending a call

While talking...



Adjusting the volume of microphone

While talking...



- · This adjustment does not affect the volume level of the other sources.
- · To adjust the volume of calls/earpiece, use VOLUME ✓ / ▲ (for DDX790/DDX770/ DDX7070BT) or VOL/ATT/AUDk nob(for DDX470/DDX4070BT)ont hem onitor panel.

Switching between handsfree mode and phone mode

While talking...



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

Notifying SMS reception

If the mobile phone is compatible with SMS (Short Message Service), the unit tells you a message has been received. (128 page 64)

To read a received message, operate the mobile phone after stopping the car in a safe place.

 You cannot read, edit, or send a message through the unit.

Adjusting the echo cancel level

While talking...



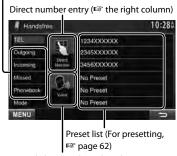
Making a call

On <Top Menu>:



2 Select a method to make a call.

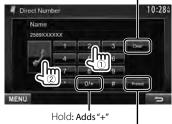
Phonebook/Call lists (™ page 61)



Voice dialing (the right column)

Direct number entry

Deletes last entry



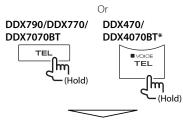
Presets the entered phone number on the preset list (FF page 62)

· You can enter up to 32 numbers.

Voiced ialing

· Available only when the connected mobile phone has the voice recognition system.





Speak the name you want to call.

To cancel, press [Cancel].

* This operation works only when <**TEL Key Long** Press> is set to <VOICE>. (FSP p age5 3)

Using the phonebook/call lists



| Outgoing | From dialled call list. |
|-----------|--|
| Incoming | From received call list. |
| Missed | From missed call list. |
| Phonebook | From phonebook. • For copying the phonebook, page 62. |



2



To use the A-Z search on the phonebook When < Phonebook > is selected, you can search by initial.

1



2 Select the initial.

· If the initial is not a letter or number. press [Others].



3 Select a phone number from the list.



To display the details of an entry When < Phonebook > is selected...

Display the details of the desired entry.



Select a phone number to call.



Presetting the phone numbers

You can preset up to 6 phone numbers.

On <Top Menu>:



2 Select an item from phonebook/call lists.



3 Select a phone number.



4 Select a preset number to store into.



 You can also preset the phone number entered on < Direct Number > screen by pressing [Preset]. (Fig page 60)

To delete the preset phone numbers, initialize the settings from < Initialize > in <Bluetooth Setup>. (ISS page 58)

Copying the phonebook

You can copy the phonebook memory of a mobile phone into the unit (up to 400 entries).

On <Top Menu>:



2





PIN code (initial: 0000)



Numbers of the phonebook entries copied

4 Operate the target mobile phone.

- · Refer to the instruction manual supplied with your mobile phone.
- To cancel the transfer, press [Finish].
- 5 Finish the procedure.



The phonebook memory is copied from the mobile phone.

Deleting the phone number entries in the unit

Display the phonebook/call list you want to delete. (page 61)

2



- You cannot delete data when [Phone] is selected
- 3 Select the item you want to delete.



Deletes all the numbers/names in the selected item

A confirmation message appears. Press Yes].

About mobile phones compatible with Phone Book Access Profile (PBAP)

If your mobile phone supports PBAP, you can display the phonebook and call lists on the touch panel screen when the mobile phone is connected.

- · Phonebook: up to 5 000 entries
- · Dialed calls, received calls, and missed calls: up to 50 entries each

To display the phonebook/call lists of the mobile phone or the unit

Connected mobile phone Phonebook TEL Name1 2589XXXXXX Name2 1234XXXXXXX Outpoing Name3 2345XXXXXX > Incoming Missed Name4 3456XXXXXX > Phonebook Name5 4567XXXXXX > 5678XXXXXX > Name6 MENU Unit

Settings for Bluetooth mobile phone

1 On <Top Menu>:



2



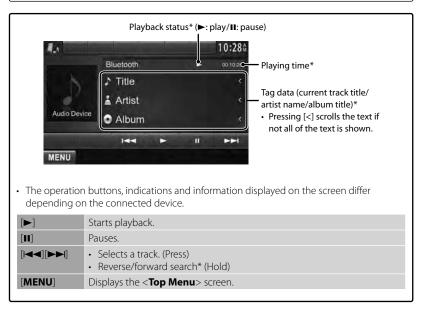


| Menu items | Selectable set | ting/item Initial: <u>Underlined</u> |
|---------------------|--|--|
| Phone Device | Shows the connected phone device name. | |
| Auto Response | ◆ ON ◆ <u>OFF</u> | : The unit answers the incoming calls automatically in 5 seconds. : The unit does not answer the calls automatically. Answer the calls manually. |
| SMS Notify | ♦ ON ♦ <u>OFF</u> | : The unit informs you of the arrival of a message by ringing and displaying "Receiving Message." : The unit does not inform you of the arrival of a message. |
| Ring Mode | ◆ <u>System</u> ◆ Phone | The ring tone set on the unit is used. The ring tone set on the mobile phone is used. (This function may not work depending on the mobile phone.) |
| Ring Tone Change | When <ring mode=""> is set to <system>, press [Enter], then select the ring tone for received calls and SMS from <\textit{Tone1}>, <\textit{Tone2}>, <\textit{Tone3}>. ◆ Call Tone : Selects the ring tone for phone calls. ◆ Message : Selects the ring tone for SMS. Tone</system></ring> | |

Using the Bluetooth audio player

- To register a new device,

 page 56.
- To connect/disconnect a device,
 page 57.



^{*} Available only for the devices compatible with AVRCP 1.3.

USING THE REMOTE CONTROLLER

Overview

DDX7070BT/DDX4070BT/DDX3070:

This unit can be operated using the Remote Controller (RC-DV340) supplied with this unit. DDX790/DDX770/DDX470/DDX370:

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 on clothing, immediately rinse with water and consult a physician.
- Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.

Battery installation

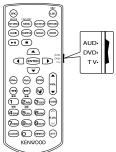
Use two "AAA"/"R03"-size batteries. Insert the batteries with the + and – poles aligned properly, following the illustration inside the case.



 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 the 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)

Source switching

Switches to the source to be played. Hangs up the incoming/current call.



Volume control

Adjusts the volume.



Volume attenuating

Press the key once to lower the volume. Press again to restore the previous volume.



NAV/V.SEL

Switches to the navigation screen.



Cursor kev

Moves the cursor when displaying menu.



ENTER

Enters options.



Hands-free communication

When a call comes in, it answers the call.



Function

Switches the control screen



MODE

Switches the aspect ratio. Aspect ratio changes each time you press this kev.



OPEN

(Onlyf or DDX790/DDX770/DDX7070BT)

Adjusts the panel angle.

The panel angle changes each time you press this key.



DVD/VCD (DVD mode)

Track search and file search

Selects the track or file to be played.



Play/Pause

Pauses the track

Press again to resume playing.



Stop

Memorizes the last point where the disc stopped.



Direct search



Pressing this key switches the features that can be searched directly.

DVD-VIDEO

Cancel

| Chapter number | |
|------------------|--|
| Title number | |
| Cancel | |
| DVD-VR | |
| Chapter number | |
| Program/Playlist | |

VCD 1.X, VCD 2.X (PBC OFF)

Track number Cancel

VCD 2.X (PBC ON)

Track number

Cancel

Once you have switched to the direct search feature, specify the search number from the numeric keypad, and then press [ENTER] key.

Numeric keypad



- Specify the number to search in direct search.
- Press 1 (2ABC) to fast forward/backward. Switches the fast forward/backward speed each time you press this key.
- Press 1 2 2 to slow forward/backward during pause.

DVD Top Menu

Returns to the DVD top menu.



DVD Menu

Displays the DVD menu.



SUBTITLE

Switches the subtitle language.



ZOOM

Switches the zoom ratio each time you press this kev.



Picture Angle

Switches the picture angle each time you press this key.



AUDIO

Switches the voice language each time you press this key.



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

Folder search

Selects the folder to be played.



Track search and file search

Selects the track or file to be played.



Play/Pause

Pauses the track. Press again to resume playing.



Direct search



Pressing this key switches the features that can be searched directly.

Music Disc

Track number Cancel

Audio files in DVD/CD disc

Folder number File number Cancel

Once you have switched to the direct search feature, specify the search number from the numeric keypad, and then press [ENTER] key.

Numeric keypad



• Specify the number to search in direct search.

Radio/SiriusXM (AUD mode)

Band switching

Switches to bands received by the unit.



Station selection

Switches to broadcast stations received by the unit.



Seek mode switching

Switches the Seek mode (AUTO1, AUTO2, MANU).



Direct tuning

After pressing this key, use the keypad to specify the broadcast station you wish to receive.



Example: 92.1MHz (FM)





Example: 810kHz (AM)



Numeric keypad



- To use preset tuning, press the number of a programmed broadcast station. (1 –
- Press the direct tuning key first, then specify the frequency of the station to receive.

iPod (AUD mode)

Music/Video search

Selects the music/video to be played.



Play/Pause

Pauses the music/video. Press again to resume playing.



USB (AUD mode)

Folder search

Selects the folder to be played.



File search

Selects the file to be played.



Play/Pause

Pauses the file.

Press again to resume playing.



REFERENCE

Maintenance

Caution on cleaning the unit

Do not use anv 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



· 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

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

Do not use the following discs:

3 inch disc



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semitransparent disc)



Transparent or semitransparent parts on its recording area



More about this unit

File playback

Playing DivX files

(Only for DDX7070BT/DDX4070BT/DDX3070)

- · This unit can play back DivX files with the extension code <.divx>, <.div>, or <.avi> (regardless of the letter case—upper/ lower).
- Audio stream should conform to MP3 or Dolby Digital.
- The file encoded in the interlaced scanning mode may not be played back correctly.

Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg>, <.mpeq>, or <.mod>.
- · 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 JPEG files with the extension code <.jpg> or <.jpeg>.
- · This unit can play back JPEG 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.

We bear no responsibility for any loss of data in an iPod/iPhone and USB mass storage class device while using this unit.

Playing MP3/WMA/WAV/AAC files

- · 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 the files meeting 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 WAV/WMA/AAC Taa.
- 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 Layer 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 by using any other application than iTunes.
 - AAC files copy-protected with FairPlay (except those stored on an iPod).
 - Files which have the data such as AIFF. ATRAC3, etc.

Sound signals emitted through the rear terminals

Through the analog terminals (Speaker out/Front Preout/Rear Preout)

2-channel signal is emitted. When playing multi-channel encoded disc, multi-channel signals are downmixed.

■ Language codes (for DVD/DivX language selection)

| Code | Language | Code | Language | Code | Language | Code | Language |
|------|-----------------|------|------------------|------|--------------------|------|------------|
| 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 | MO | Moldavian | ST | Sesotho |
| AS | Assamese | HR | Croatian | MR | Marathi | SU | Sundanese |
| AY | Aymara | HU | Hungarian | MS | Malay (MAY) | SW | Swahili |
| AZ | Azerbaijani | HY | Armenian | MT | Maltese | TA | Tamil |
| ВА | Bashkir | IA | Interlingua | MY | Burmese | TE | Telugu |
| BE | Byelorussian | ΙE | 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 | TO | 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 | KO | 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 | | |

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).

■ If the following messages appear

General

| Message | Remedy/Cause |
|---|--|
| "No Signal" | Start the playback on the external component connected to AV-IN1 or iPod/AV-IN2 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 in to contact with the car chassis. Wire or insulate the speaker cord as appropriate, then reset the unit (r pages 3 and 81). |
| "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 25) |
| "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. |

Bluetooth (Only for DDX790/DDX770/DDX7070BT/DDX470/DDX4070BT)

| Message | Remedy/Cause |
|--------------------|---|
| "No BT Dongle" | The Bluetooth adapter (KS-UBT1) is removed. |
| "Connection Error" | The device is registered but the connection has failed. Connect the registered device. (🖙 page 57) |
| "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 the voice recognition system. |
| "No Data" | No phonebook 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. |

Pandora (Only for DDX790/DDX770/DDX470/DDX370)

| Message | Remedy/Cause |
|---|--|
| "Check Device" | Pandora application on your iPhone/iPod touch/smartphone is not started up. Pandora application is not installed in the connected device. Error occurs on the Pandora application. You have not been signed in the Pandora. |
| "Pandora upgrade required" | The version of the Pandora application on your iPhone/iPod touch/ smartphone is not the latest. Update the version of your Pandora application. |
| "Cannot Skip" No more songs can be skipped. | |
| "Rating Failed" | Thumb-up/down is prohibited. |
| "No Station" | No station is available. |
| "No Active Station" | No station is being played. |
| "Cannot create a station" | The registration of the stations to the Station List is full. |
| "Failed to save your bookmark" | The unit has failed to bookmark. Try the operation again. |

SiriusXM (Only for DDX790/DDX770/DDX470/DDX370)

| Message | Remedy/Cause | |
|--|---|--|
| "Check Tuner" | The SiriusXM Connect Vehicle Tuner is disconnected or the unit is having trouble communicating with the Tuner. Connect the Tuner or check the Tuner connection to the back of the unit. | |
| "Subscription Updated – Press Enter to Continue" | Your subscription status has been updated. | |
| "Chan Unavailable" | The selected channel is not available. | |
| "Ch UnSubscribed" | The selected channel has not been subscribed yet. | |
| "Channel Locked" | The selected channel has been locked by parental controls, or a mature channel has been selected. Enter the unlock code when required. | |
| "Incorrect Lock Code" | The selected channel is a mature or parental lock channel, and locked by parental lock or user lock code. Enter the correct lock code. | |
| "Check Antenna" | The antenna may have a problem. Check the antenna. | |
| "No Signal" | No satellite or terrestrial signal can be found. This message appears when the channel selection cannot be complete even in a given time. | |

■ If there seems to be a problem

| | Symptom | Remedy/Cause |
|---|--|---|
| 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 12) |
| | The unit does not work at all. | Reset the unit. (🖙 page 3) |
| | The remote controller* does not work. | Replace the battery. |
| 띮 | AME automatic presetting does not work. | Store stations manually. (🖙 page 29) |
| TUNER | Static noise while listening to the radio. | Connect the antenna firmly. |
| Disc in general | Recordable/Rewritable discs cannot be played back. Tracks on the Recordable/ Rewritable discs cannot be skipped. | Insert a finalized disc. Finalize the discs with the component which you used for recording. |
| isci | Playback does not start. | The format of files is not supported by the unit. |
| ۵ | No picture appears on the external monitor. | Connect the video cord correctly.Select the correct input on the external monitor. |
| DivX/MPEG1/MPEG2/ IPEG/MP3/WMA/WAV/AAC | Disc cannot be played back. | Record the tracks using a compliant application on the appropriate discs. (page 17) Add appropriate extension codes to the file names. |
| DivX/MPE JPEG/MP3/M | Tracks are not played back as you have intended them to play. | Playback order may differ from the one played back using other players. |
| AV-IN1/ AV-IN2 | No picture appears on the screen. | Turn on the video component if it is not on. Connect the video component correctly. When "AV-IN2" is selected as the source, set <av input=""> to [AV-IN].</av> |

^{*} For DDX790/DDX770/DDX470/DDX370, purchase KNA-RCDV331 separately.

| | Symptom | Remedy/Cause | | |
|-------------|---|---|--|--|
| iPod/iPhone | No sound comes out of the speakers. | Disconnect the iPod/iPhone, then connect it again. Select another source and 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. Check whether the iPod/iPhone control mode is correctly selected. (page 27) 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) the "VoiceOver" feature of the iPod. For details, visit http://www.apple.com >. | | |
| | No operations are available when playing back a track containing Artwork. | Operate the unit after the Artwork is loaded. (page 25) | | |
| | Sound does not synchronize with the video. | Select <ipod> for <av input="">. (🖙 page 52)</av></ipod> | | |
| | Videos cannot be played. No sound of videos comes out. | Connect USB Audio and Video cable KCA-iP202. Other cables cannot be used. Select <ipod> for <av input="">. (☞ page 52)</av></ipod> | | |
| USB | "Reading" keeps flashing on the screen. | Turn off the power and on again. | | |
| | While playing a track, sound is sometimes interrupted. | The tracks are not properly copied into the USB device. Copy tracks again, and try again. | | |

| | Symptom | Remedy/Cause | | |
|---|---|---|--|--|
| Bluetooth (only for DDX790/DDX770/DDX7070BT/DDX470/DDX4070BT) | Phone sound quality is poor. | Reduce the distance between the unit and the Bluetooth mobile phone. Move the car to 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). | | |
| | Bluetooth device does not detect the unit. | Check whether the Bluetooth adapter (KS-UBT1) is inserted correctly. Search from the Bluetooth device again. | | |
| | The unit does not make pairing with the Bluetooth device. | For the device compatible with Bluetooth2.1: Register the device by using a PIN code. (rar page 56) For the device 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 on its instructions, try "0000" or "1234." | | |
| | Echo or noise occurs. | Adjust the microphone unit position. | | |
| | The unit does not respond when you try to copy the phonebook to the unit. | You may have tried to copy the same entries (as stored) to the unit. | | |

Accessories/InstallationProcedure

Accessories (6) *1 (1) (7) *2 (2) 3 (8) ×261 (4) (9) *361 (3m: 9.8 ft)

- *1 DDX470/DDX4070BT/ DDX370/DDX3070
- *2 DDX790/DDX770/ DDX7070BT only. DDX790/DDX770/
- DDX7070BT/ DDX470/ DDX4070BT only.

Installation Procedure

.....1

(5)

- **1** To prevent a short circuit, remove the key from the ignition and disconnect the battery.
- 2 Make the proper input and output wire connections for each unit.
- **3** Connect the speaker wires of the wiring harness.
- 4 Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5 Connect the wiring harness connector to the unit.

- Install the unit in your car.
- Reconnect the \bigcirc battery. 7
- Press the reset button.
- Perform the Initial Setup

MARNING

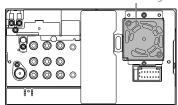
- · If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- · Do not cut out the fuse from the ignition wire (red) and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



- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- · Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- · If the power is not turned ON ("Miswiring DC Offset Error", "Warning DC Offset Error" is displayed), the speaker wire may have a shortcircuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- · If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- Only for DDX790/DDX770/DDX7070BT: If the console has a lid, make sure to install the unit so that the faceplate 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 the connectors either to both the front output terminals or to both the rear output terminals (do not use one from each).
 For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit is blocked. Blocking these openings will prevent the cooling of the internal temperature and result in malfunction

Cooling fan



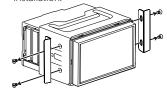
↑ CAUTION

Install this unit in the console of your vehicle.

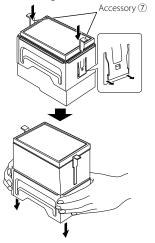
Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

DDX790/DDX770/DDX7070BTonly

- 1 Before installation, remove the screws.
- Do not use the removed screws for installation

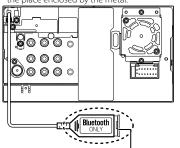


2 Detach the sleeve using the two extraction keys then slide off the mounting sleeve.



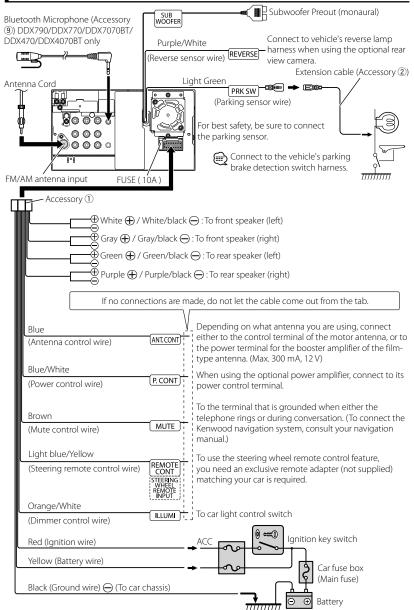
DDX470/DDX4070BT only

 Install the Bluetooth adapter (KS-UBT1) besides the place enclosed by the metal.



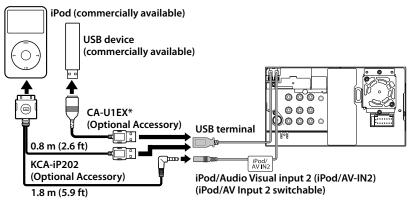
Bluetooth adapter (KS-UBT1)

Connecting Wirest o Terminals



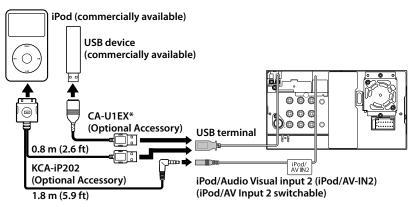
Connecting a USB device/iPod/iPhone

For DDX790/DDX770/DDX7070BT



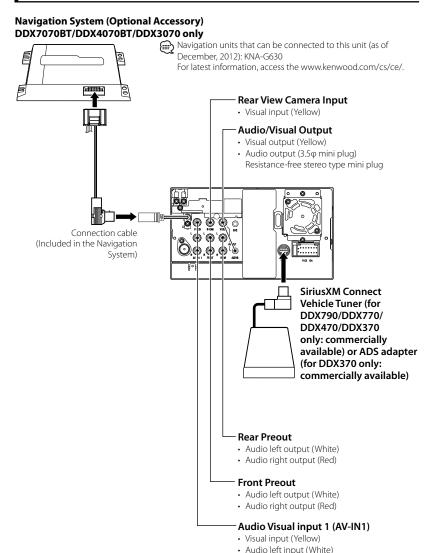
* Use CA-U1EX for extending the cable if necessary. (Max 500 mA, 5V)

For DDX470/DDX4070BT/DDX370/DDX3070



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

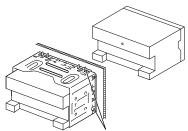
Connecting Other Products



· Audio right input (Red)

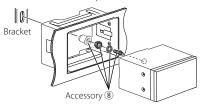
Installing/Removing the Unit

Installing the Unit



Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.

For more stable attachment the unit (DDX790/DDX770/DDX7070BT only)

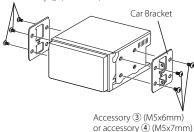


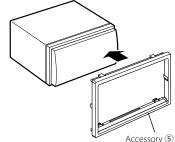


 Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

Installation on Toyota, Nissan or Mitsubishi Car using Brackets

Accessory (3) (M5x6mm) or accessory (4) (M5x7mm)



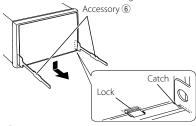


Installing the Trim Plate

1 Attach accessory (5) to the unit.

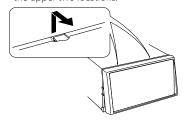
Removing the Trim Plate (DDX470/DDX4070BT/ DDX370/DDX3070 only)

1 Engage the catch pins on the extraction key (a) and remove the two locks on the lower part. Lower the frame and pull it forward as shown in the figure.



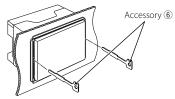


- The frame can be removed from the top side in the same manner.
- **2** When the lower part is removed, remove the upper two locations.

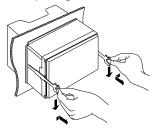


Removing the Unit (DDX470/DDX4070BT/ **DDX370/DDX3070 only)**

- For removing DDX790/DDX770/DDX7070BT, □ page 80.
- 1 Remove the trim plate by referring to the removal procedure in the section "Removing the Trim plate".
- 2 Insert the two extraction keys (6) deeply into the slots on each side, as shown.

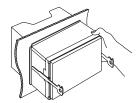


3 Lower the extraction keys toward the bottom, and pull out the unit halfway while pressing towards the inside.





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

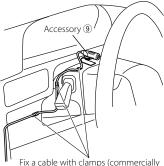


Installing the Microphone Unit (DDX790/DDX770/ DDX7070BT/DDX470/ DDX4070BT only)

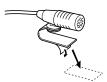
- 1 Check the installation position of the microphone (accessory 9).
- 2 Remove oil and other dirt from the installation surface
- **3** Install the microphone.
- 4 Wire the microphone cable up to the unit with it secured at several positions using tape or the like.



 Install the microphone as far as possible from the mobile phone.



available).



Peel the release coated paper of double-face adhesive tape to fix on the place shown above.



Adjust the direction of the microphone to the driver.

Specifications

Monitor section

Picture Size

: 6.95 inches (diagonal) wide 156.6 mm (W) × 81.6 mm (H) 6-3/16 inch (W) × 3-3/16 inch (H) (DDX790/DDX770/DDX7070BT)

: 6.1 inches (diagonal) wide 136.2 mm (W) × 72 mm (H) 5-6/16 inch (W) × 2-13/16 inch (H) (DDX470/DDX4070BT/DDX370/DDX3070)

Display System

: Transparent TN LCD panel

Drive System

: TFT active matrix system

Number of Pixels

: 1,152,000 (800H × 480V × RGB)

Effective Pixels

: 99.99%

Pixel Arrangement

: RGB striped arrangement

Back Lighting

: LED

DVD player section

D/A Converter

: 24 bit

Audio Decoder

: Linear PCM/Dolby Digital/dts/MP3/ WMA/AAC/WAV

Video Decoder

: MPEG1/MPEG2/

DivX (DDX7070BT/DDX4070BT/DDX3070)

Wow & Flutter

: Below Measurable Limit

Frequency Response

: Sampling frequency;

96 kHz: 20 Hz – 22,000 Hz 48 kHz: 20 Hz – 22,000 Hz 44.1 kHz: 20 Hz – 20,000 Hz

Total Harmonic Distortion

: 0.010% (1 kHz)

S/N Ratio (dB)

: 99 dB (DVD-Video 96 kHz)

Dynamic Range

: 98 dB (DVD-Video 96 kHz)

Disc Format

: DVD-Video/DVD-VR/VIDEO-CD/CD-DA

Sampling frequency

: 44.1/48/96 kHz

Ouantifying Bit Number

: 16/20/24 bit

USBi nterface section

USB Standard

: USB 2.0 Full Speed

File System

: FAT 16/32

Maximum Power Supply Current

: DC 5 V === 1 A

D/A Converter

: 24 Bit

Video Decoder

: MPEG1/MPEG2/

DivX (DDX7070BT/DDX4070BT/DDX3070)

Audio Decoder

: MP3/WMA/AAC/WAV (Linear PCM)

Bluetooth section (DDX790/ DDX770/DDX7070BT/ DDX470/DDX4070BT)

Technology

: Bluetooth 2.1 + EDR

Frequency

: 2.402 GHz - 2.480 GHz

Output Power

: +4 dBm (MAX), 0 dBm (AVE), Power Class 2

Maximum Communication range

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

Profile

: HFP (Hands Free Profile),

OPP (Object Push Profile),

PBAP (Phonebook Access Profile),

A2DP (Advanced Audio Distribution Profile)

AVRCP (Audio/Video Remote Control Profile).

GAP (Generic Access Profile), SDP (Service Discovery Profile), SPP (Serial Port Profile)*

^{*} Only for DDX790/DDX770/DDX470.

FM tuner section

Frequency Range

200 kHz: 87.9 MHz - 107.9 MHz (DDX790/DDX770/DDX470/DDX370)

50 kHz: 87.5 MHz - 108.0 MHz (DDX7070BT/DDX4070BT/DDX3070)

Usable Sensitivity (S/N: 30 dB)

: 9.3 dBf (0.8 μV/75 Ω)

Quieting Sensitivity (S/N: 50 dB)

: 15.2 dBf (1.6 μV/75 Ω)

Frequency Response (± 3.0 dB)

· 30 Hz - 15 kHz

S/N Ratio (dB)

: 70 dB (MONO) Selectivity (± 400 kHz)

: ≥65 dB

Stereo Separation : 40 dB (1 kHz)

AM tuner section

Frequency Range (10 kHz)

: 530 kHz - 1 700 kHz

Usable Sensitivity

: 28 dBu

Videos ection

Color System of External Video Input

: NTSC/PAL

External Video Input Level (RCA/mini jack)

: 1 Vp-p/75 Ω

External Audio Max Input Level (RCA/ mini jack)

: 2 V/25 kΩ

Video Output Level (RCA jack)

: 1 Vp-p/75 Ω

Audio Output Level (mini jack)

: 1.2 V/10 kO

Analog RGB input (Only for DDX7070BT/ DDX4070BT/DDX3070)

: 0.7 Vp-p/75 Ω

Audio section

Maximum Power (Front & Rear)

: 50 W × 4

Full Bandwidth Power (Front & Rear)

(4 Ω, 14.4 V, 1% THD)

: 22 W× 4

Preout Level (V)

: 4 V/10 kO

Preout Impedance

: ≤600 O

Speaker Impedance

: $4\Omega - 8\Omega$

Tone

Bass: 100 Hz + 8 dB Middle: $1 \text{ kHz} \pm 8 \text{ dB}$ Treble: 12.5 kHz ± 8 dB

General

Operating Voltage

: 14.4 V (10.5 V - 16 V allowable)

Maximum Current Consumption

: 10 A

Dimensions (W \times H \times D)

: 182 × 111 × 160 mm

 $7-3/16 \times 4-3/8 \times 6-5/16$ inch (DDX790/DDX770/DDX7070BT)

182 × 112 × 163 mm

 $7-3/16 \times 4-7/16 \times 6-7/16$ inch (DDX470/DDX4070BT/DDX370/

DDX3070)

Operational Temperature Range

: -10°C - +60°C

Weight

: 2.5 kg (5.5 lbs)

(DDX790/DDX770/DDX7070BT)

2.0 kg (4.4 lbs)

(DDX470/DDX370/DDX3070)

2.1 kg (4.4lbs) (DDX4070BT)

· Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

· Specifications are subject to change without notice.

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KS-UBT1 (USB Bluetooth adapter)

Instruction Manual

↑ CAUTION

Changes or modifications not approved by us could void the user's authority to operate the eauipment.

- This adapter has been designed exclusively for use with Kenwood car receivers. Do not use this adapter with any other car receiver.
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Specifications

Bluetooth Version: Bluetooth Ver 2.1 +FDR Power Class: Class2 Radio Service Area: 10 m (10.9 yd) **USB Standards:** USB V1.1 (Full Speed)

Power Consumption: 54.3 mA/5 V (max.)

Dimensions (I \times W \times H):

 $15 \text{ mm} \times 19 \text{ mm} \times 5.6 \text{ mm}$ $(5/8" \times 3/4" \times 1/4")$

Keep the Bluetooth adapter inserted when using the Bluetooth function.

When the adapter is removed, store it in a safe place.



NTC

Type Accepted No.: ESD-CPE-0903971C



인증반호 : JVC-KSUBT1

해당 무선설비는 운용 중 전파혼 신 가능성이 있음

회사의 신청 이름: (주)더 미토 기기의 명청: 무선데이터퉁신 시스텀용 무선기기 모델 이름: KS-UBT1 제조년도 및 월: 2009, February 신청인 아이디: JVC

해당 무선설비는 전파혼신 가능성 이 있으므로, 인명안전과 관련된 서비스는 할 수 없습니다.

Distributor name: JVC KENWOOD DO BRASIL COMERCIO DE EL ETRONICOS LTDA CNPJ of distributor: JVC KENWOOD DO BRASIL COMERCIO

DE ELETRONICOS LTDA Manufacturer: JVC KENWOOD Corporation Model no.: KS-UBT1

> JVC ANATEL

Brand:

0168-12-5373

(01)07898929117502

"Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

C N49

Approved by TRA

MTC:0FICIO No 8396-2008-MTC/29

CONATEL certificate No: 001516

SUBTEL: 30234/DFRS00045/F-49

Complies with IDA Standards DB102150

"This telecommunication equipment conforms to NTC technical requirement"

> 23260/SDPPI/2012 2354

TEC/WR/I/MOD-08/02/135.APR 08

URSEC 365/FR/2010

CNC 16-9371

COFETEL: RCPJVKS12-0646

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made

FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/ TV technician for help.

IC (Industry Canada) Notice

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. The term "IC: " before the certification/ registration number only signifies that the Industry Canada technical specification were met

♠ CAUTION

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPF). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles)

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.





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