KENWOOD

DNX893S DNX773S DNX693S DNX573S DNX7160BTS DNX5160BTS

GPS NAVIGATION SYSTEM

JVCKENWOOD Corporation

Before reading this manual, click the button below to check the latest edition and the modified pages.

http://manual.kenwood.com/edition/im391/

Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new GPS Navigation System.

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 DNX893S/ DNX773S/ DNX693S/ DNX573S/ DNX7160BTS/ DNX5160BTS Serial number ____

US Residence Only

Register Online

Register your KENWOOD product at www.kenwoodusa.com

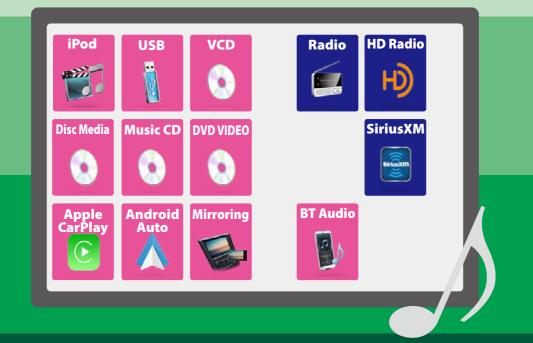
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im391_Ref_K_En_00 (K/R)



Thank you for purchasing the KENWOOD GPS NAVIGATION SYSTEM. In this manual, you will learn various convenient functions of the system.

Click the icon of the media you want to play. With one-click, you can jump to the section of each media!



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Before Use

WARNING

To prevent injury or fire, take the following precautions:

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

Precautions on using this unit

- When you purchase optional accessories, check with your KENWOOD dealer to make sure that they work with your model and in your area.
- You can select language to display menus, audio file tags, etc. See <u>User Interface Setup</u> (P.80).
- The Radio Data System or Radio Broadcast Data System feature won't work where the service is not supported by any broadcasting station.

Protecting the monitor

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

Cleaning the unit

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

\wedge

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



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

Precautions on handling discs

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



- 8-cm (3 inch) discs cannot be used.
- Discs with coloring on the recording surface or discs that are dirty cannot be used.
- This unit can only play the CDs with

This unit may not correctly play discs which do not have the mark.

 You cannot play a disc that has not been finalized. (For the finalization process see your writing software, and your recorder instruction manual.)

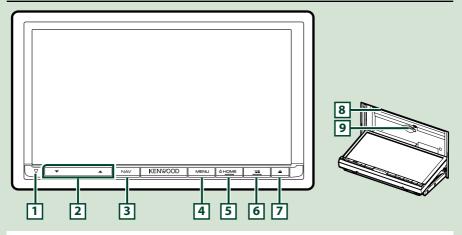
How to Read this Manual

	1
CD/Audio and Visual Files/iPod/APPS	
Search Operation —	Operation title
You can search music, video or picture files by the following operations.	Introduces the function.
NOTE	NOTE
 If you use a remote control, you can jump directly to the desired track/file with entering the track/ 	Introduces some tips, notes, etc.
folder/file number, play time, etc. For details, see Direct search mode (P.103).	Reference mark
	Displayed in blue notes.
List search	With one-click, you can jump to the article related to the current section.
You can search tracks, folders, and files according to hierarchy.	
	Operation procedure
1 Touch [Q].	Explains necessary procedures to
Category List screen appears.	achieve the operation.
2 Touch [▼]. 3 Touch [Category List].	< >: Indicates the name of panel buttons.
Category List Category List	[]: Indicates the name of touch keys.
Category List	Screen shot Shows some screen shots displayed during operation for reference. The area or keys to touch are surrounded with a red frame.
6 Touch desired item.	
Playback starts.	NOTE
	 The screens and panels shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from th actual screens or panels used, or some displa
30	patterns may be different.

Basic Operations

Functions of the Buttons on the Front Panel

DNX893S/ DNX773S/ DNX7160BTS



NOTE

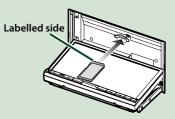
- The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.
- In this manual, each model name is abbreviated as follows. DNX893S: DNXKS DNX773S, DNX7160BTS: DNX77
 - If above icon is showed, read the article applicable to the unit you use.

How to insert an SD Card

- 1) Press **7** <▲> button.
- 2) Touch [OPEN] to the panel fully opens.
- 3) Hold the SD card as the illustration in the right and insert it into the slot until it clicks.
- 4) Press **7** <▲> button.

• To eject the card:

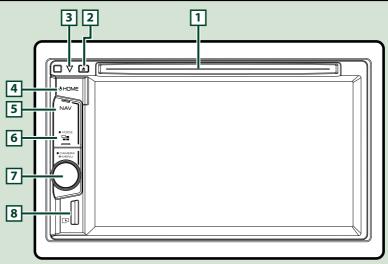
- 1) Press **7** <▲> button.
- 2) Touch [OPEN].
- 3) Push the card until it clicks and then remove your finger from the card. The card pops up so that you can pull it out with your fingers.
- 4) Press **7** <▲> button.



Number	Name	Motion	
1	\bigtriangledown	• This indicator flashes when the vehicle ignition is off (P.83).	
2	▼, ▲ (Volume)	\bullet Adjusts volume. The volume will go up until 15 when you keep pressing [\blacktriangle].	
3	NAV	Displays the navigation screen.	
4	MENU	 Displays the popup menu screen. Pressing for 1 second switches view camera display on/off. 	
5	HOME	 Displays the HOME screen (P.16). Pressing for 1 second turns the power off. When the power off, turns the power on. 	
6		Switch the APP (CarPlay/ Android Auto/ Mirroring) source. Pressing for 1 second displays the Voice Recognition screen. (P.75)	
7	▲	 Displays the Angle Adjust screen. -[DISC EJECT]: Ejects the disc. -[OPEN]: Fully opens the panel to the location of the SD card slot. When the panel is opened, pressing closes the panel. To forcibly eject the disc, press it for 2 seconds and touch [OK] after the message is displayed. 	
8	Disc insert slot	A slot to insert a disc media.	
9	SD card slot	 A slot to insert an SD card. You can play audio/visual file in the card. * (Only for DNX893S, DNX773S) An SD card slot for upgrading the map. For how to upgrade the map, refer to the instruction manual of the navigation system. 	

* If the map update file remains in the SD card, you cannot play audio/visual file.

DNX693S/DNX573S/DNX5160BTS



NOTE

- The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.
- In this manual, each model name is abbreviated as follows.

DNX693S: DNX6

DNX573S, DNX5160BTS: DNX5

If above icons are showed, read the article applicable to the unit you use.

How to insert a microSD Card

NOTE

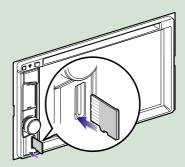
• A dummy microSD card is inserted as the slot cover. Remove it before using and keep it in an appropriate place.

1) Hold the microSD card with the label side facing right and the notched section down, and insert it into the slot until it clicks.

• To eject the card:

Push the card until it clicks and then remove your finger from the card.

The card pops up so that you can pull it out with your fingers.



Number	Name	Motion	
1	Disc insert slot	A slot to insert a disc media.	
2	≜ (Eject)	• Ejects the disc.	
		 To forcibly eject the disc, press it for 2 seconds and touch [OK] after the message is displayed. 	
3	\bigtriangledown	This indicator flashes when the vehicle ignition is off (P.83).	
	HOME	Displays the HOME screen (P.16).	
		Pressing for 1 second turns the power off.	
		• When the power off, turns the power on.	
5	NAV	Displays the navigation screen.	
6		Switch the APP (CarPlay/ Mirroring) source.	
		Pressing for 1 second displays the Voice Recognition screen. (P.75)	
7	Volume Knob	Turning adjusts volume up or down.	
		Displays the popup menu screen.	
		Pressing for 1 second switches view camera display on/off.	
8	microSD	A slot to insert a microSD card.	
	card slot	You can play audio/visual file in the card. * (Only for DNX693S, DNX573S)	
		 A microSD card slot for upgrading the map. For how to upgrade the map, refer to the instruction manual of the navigation system. 	

* If the map update file remains in the microSD card, you cannot play audio/visual file.

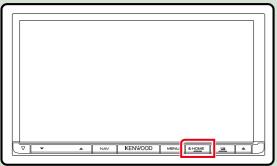
Turning on the Unit

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



Press the <HOME> button.

DNX8 DNX7



DNX6 DNX5

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\mathbf{n}	

The unit is turned on.

• To turn off the unit:

Press the <HOME> button for 1 second.

If it is your first time turning the unit on after installation, it will be necessary to perform Initial setup (P.11).

Initial setup

Perform this setup when you use this unit first time.



Locale

Select the country for the navigation system.

The language, the distance unit, and the gasoline unit are set.

①Touch [Locale].

2 Select the desired country.

Language

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

①Touch [Language].

2 Touch [Language Select].

③ Select the desired language.

④Touch [←].

For detailed operation, see User Interface Setup (P.80).

Color

Set the screen and button illumination color. You can select whether to allow color scan operation or select a fixed color for operation.

1 Touch [Color].

2 Touch [Panel Color].

③ Select the desired color.

④Touch [🖌] twice.

For detailed operation, see **Display Setup** (P.84).

Camera

Set the parameters for the camera.

①Touch [Camera].

② Set each item and touch [4].

For detailed operation, see Camera Setup (P.86).

OEM SETUP (North America Sales area only)

This function requires a commercial adaptor.

Consult your KENWOOD dealer for details.

Continued

Basic Operations

DEMO

Set the demonstration mode. Default is "ON". ① Touch [DEMO] and set ON or OFF.

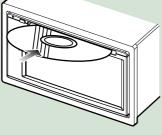
2 Touch [Finish].



NOTE

These settings can be set from the SETUP menu. See Setting Up (P.78).





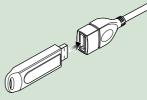
The unit loads the disc and playback starts.

• To eject the disc: Press the <▲> button.

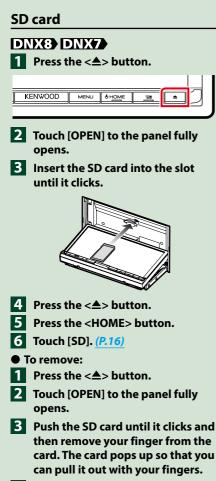


USB device

1 Connect the USB device with the USB cable.



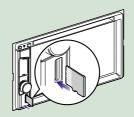
- **2** Press the <HOME> button.
- **3** Touch [USB]. (P.16)
- To disconnect the device:
- Press the <HOME> button.
- 2 Touch a source other than [USB].
- 3 Detach the USB device.
- 1 Connect the iPod.
- 2 Press the <HOME> button.
- 3 Touch [iPod]. (P.16)
- · For the details of the necessary cable and adapter to connect with iPod/iPhone, refer to CD/Audio and Visual Files/iPod/APPS (P.30).
- To disconnect the iPod/iPhone connected with the cable: Detach the iPod/iPhone.



4 Press the <▲> button.

DNX693S/DNX573S







2 Press the <HOME> button.

3 Touch [SD]. (P.16)

• To remove:

Push the microSD card until it clicks and then remove your finger from the card. The card pops up so that you can pull it out with your fingers.

NOTE

 A dummy microSD card is inserted as the slot cover. Remove it before using and keep it in an appropriate place.

HDMI/ MHL source

You can display the screen of smartphones connected via the HDMI/MHL input terminal.

- Press the <HOME> button.
- 2 Touch [].
- 3 Touch [HDMI/ MHL]. (P.16)
- 4 Start an application or playback on your smartphone.
- About Wireless Display Adapter: This unit is compatible with Wireless **Display Adapter. Connecting a Wireless** Display Adapter (KCA-WL100: optional accessory) to the HDMI/MHL input terminal enables you to enjoy listening to music, watching videos, or viewing pictures over a wireless connection.

NOTE

· For details about Wireless Display Adapter settings, etc., refer to the instructions supplied with the Wireless Display Adapter.

TV tuner (DNX7160BTS/ DNX5160BTS)

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

Before use

- When you use TV control function, connect the TV tuner (commercially available) and set 3rd Party TV Tuner Control in AV Setup (P.88) to ON.
- The TV tuner can be controlled with its supplied remote control through the remote sensor on the front panel of this unit.
- Press the <HOME> button.

2 Touch []].



3 Touch [AV-IN1]. (P.16)



1 Key display area

Touch to display the control screen.

Menu control screen:

Touch 1 Key display area.

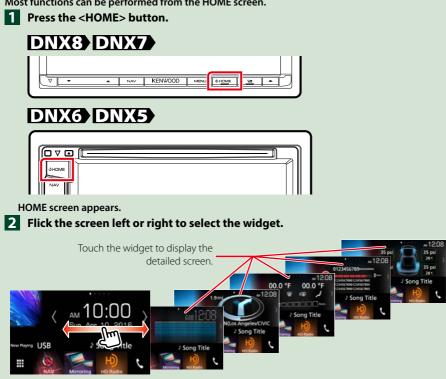


Hides the indicators and buttons. Touch [Hide]. Change the channel.

Touch [CH▲], [CH▼].

Operating with the HOME Screen

Most functions can be performed from the HOME screen.



Selecting the playback source on the HOME screen



1	Displays the source selection screen.
2	Short-cut buttons.
3	Displays the Hands Free screen (P.72).
4	Displays the control screen of current source.



From this screen, you can perform the following functions.

Function	lcon	Operation
Switch the audio source	USB iPod HD Radio Radio etc.	Touch the icon of the desired source.
Switch the video source	AV-IN HDM/MHL etc.	Touch the icon of the desired video source.
Switch the application installed in the iPhone/ iPod or Android.	Mirroring Android Apple CarPlay etc.	Touch the icon of the desired application.
Display navigation screen	NAV NAV	Touch [NAV].
Turn off all audio function		Touch [STANDBY].
Vehicle information display	Vehicle Info	Touch the icon of the desired vehicle information
Enter setup mode	\$	Touch the icon of the desired setup function.

• Customizing Short-cut buttons on HOME screen

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

- 1. Touch and hold the icon which you want to move to go into the customizing mode.
- 2. Drag it where you want to move.

Customizing mode screen



Common Operations

Introduces the common operations.

Popup menu



Touch to display the popup menu. The contents of the menu are as follows.

i Displays the Screen Adjustment screen.

- Turns the display off.
- : Displays the view camera.
- Displays the SETUP Menu screen.
- 💽 : Displays the Audio Control Menu screen.
- Displays the control screen of current source. Icon feature differs depending on the source.

Source control screen descriptions

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



 Short-cut buttons: The source changes to the one you have set as a short-cut. For the short-cut setting, refer to <u>Customizing</u> <u>Short-cut buttons on HOME screen</u> (P.17).

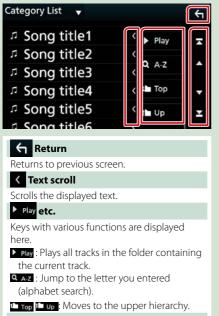
5 [

Touch to display the Hands Free screen. (P.72)

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

List screen

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



[▲] / [▼] / [조] / [Σ] Page scroll

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

[**▼**]/[**▼**] : Displays the top or bottom page.

Flick scrolling

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

Category List 🛛 🗸		÷
	< > Play	Ŧ
	<	
□ Song title	< Q A-Z	•
⊐ Song title4	< the Top	-
	< the Up	T
🛙 Sona title6 🗸	<	

Navigation Operation

For details on the navigation function, please refer to the Navigation Instruction Manual.

Display the navigation screen

1 Press the <NAV> button.

DNX8 DNX7



DNX6 DNX5



The navigation screen appears.

Control audio from the navigation screen

You can control audio sources while the navigation screen is displayed.

Also, you can view the navigation information while the source control screen is displayed.

1 Touch the Navigation information of Secondary screen.



The navigation screen with audio information appears.

Each time you touch []/ []]/ []]/



Touching this area displays the audio screen.

Displays the navigation and control keys of the current source.



Displays the navigation and current video/ picture playback display.



NOTE

• The screen switches between playback screen and view camera each time the viewing area is touched.

To return to the full navigation screen:

NOTE

- For details on control keys, refer to the instructions in each section.
- [] It does not appear if the control keys like AV-IN, HDMI/MHL, etc. are not exist.
- Touching the source icon in the bottom of the screen displays the full audio screen.

KENWOOD Traffic Powered By INRIX (North America Sales area only)

You can receive INRIX traffic information and weather forecast by connecting your iPhone or Android smartphone in which the "KENWOOD Traffic Powered By INRIX" application is installed to this unit.

Preparation

- Install the latest version of the KENWOOD Traffic Powered By INRIX application on your iPhone or Android.
- -iPhone: Search for "KENWOOD Traffic Powered By INRIX" in the Apple App Store to find and install the most current version.
- Android: Search for "KENWOOD Traffic Powered By INRIX" in Google play to find and install the most current version.
- For details, see "KENWOOD Traffic Powered By INRIX" application.

1 Register the Smartphone.

See APP/iPod settings (P.31).

2 Press the <NAV> button. DNX8 DNX7





Navigation screen appears. Touch [Apps] on the Main Menu screen and then an icon of your desired content For details, see Navigation system manual.

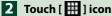
OEM Features Operation

By connecting this unit to the bus system of the vehicle using an iDataLink (commercially available), this unit can access the satellite radio source provided for the vehicle and vehicle information can be displayed on this unit.



Press the <HOME> button.

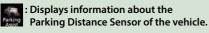
HOME screen appears.





instruments such as a speedometer.







: Displays information about the air conditioner of the vehicle.



: Displays information about the tire pressures of the vehicle.





34.300GHz 12345678901234567890 12345678901234567890 12345678901234567890

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1.3mi US101-

0 N

: Displays information about the Radar

NOTE

A Em #

• Displayable screens, button names, and screen names vary depending on the type of the connected iDataLink and the model of the vehicle. For more details, access the following URL: www.idatalink.com/

DVD/Video CD (VCD)

DVD/VCD Basic Operation

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

NOTE

- Set the remote control mode switch to DVD mode before starting operation, see <u>Switching the operation mode</u> (P.103).
- The screen shot below is for DVD. It may be different from the one for VCD.

1 When the operation buttons are not displayed on the screen, touch the 6 area.



1 Information display

Displays the following information.

- Title #, Chap #: DVD title and chapter number display
- Track #/Scene #: VCD track or scene number display Scene # is displayed only when Playback control (PBC) is on.
- [Hide]: Hides the control screen.
- [] : Repeats the current content. Each time you touch the key, repeat mode switches in the following sequence;

 DVD: Title repeat (Im), Chapter repeat (Im), Repeat off (Im)

 VCD (PBC On): Does not repeat

 VCD (PBC Off): Track repeat (Im), Repeat off (Im)

2 Function bar

Various functions can be performed by using keys in this area. For details on the keys, see *Function bar* (P.25).

• [] : Displays the Graphic Equalizer screen. (P.94)

3 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see *Function panel (P.26)*.

4 Play mode indicator

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

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

5 Searching area

Touch to search the next/previous content.

6 Key display area

Touch to display the control screen.

NOTE

- The control screen disappears when no operation is done for 5 seconds.
- If you use a remote control, you can jump directly to the desired image with entering the chapter number, scene number, play time, etc (P.103).

Function bar

DVD



The functions of each key are as follows.

Searches the previous/next content.

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

[►II]

Plays or pauses.

Function panel

1 Touch on the left side of the screen.





The functions of each key are as follows.

[_]

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

[<<][>>]

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

[<]] or [|>] (DVD only)

Plays in slow motion forward or backward.

[SETUP] (DVD only)

Touch to display the DVD SETUP screen. See DVD Setup (P.28).

[MENU CTRL] (DVD only)

Touch to display the DVD-VIDEO disc manu control screen. See DVD Disc Menu Operation (P.27).

[PBC] (VCD only)

Turn Playback control (PBC) on or off.

DVD Disc Menu Operation

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

1 Touch illustrated area during playback.



2 Touch on the left side of the screen. Touch [MENU CTRL].



Menu Control screen appears.

3 Perform desired operation as follows.



Displays the top menu Touch [TOP].*

Displays the menu

Touch [MENU].*

Displays the previous menu

Touch [Return].*

Enters selected item

Touch [Enter].

Enables direct operation

Touch [Highlight] to enter the highlight control mode (*P.27*).

Moves the cursor

Touch [▲], [▼], [◀], [▶].

Switches the subtitle language

Touch [Subtitle]. Each time you touch this key, language is switched.

Switches the audio language

Touch [Audio]. Each time you touch this key, language is switched.

Switches the picture angle

Touch [Angle]. Each time you touch this key, picture angle is switched.

* These keys may not function depending on the disc.

Highlight control

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

- 1 Touch [Highlight] in the Menu Control screen.
- **2** Touch desired item on the screen.



NOTE

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

DVD Setup

You can set up the DVD playback functions.

NOTE

- Each operation in this section can be started from the HOME screen. For details, see **Operating with the HOME Screen (P.16)**.
- Some setup items can only be set in standby mode.

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



DVD SETUP screen appears.

2 Set each item as follows.



Menu/Subtitle/Audio Language

See Language setup (P.29).

Dynamic Range Control

Sets the dynamic range.

Wide: The dynamic range is wide.

Normal: The dynamic range is normal.

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

Screen Ratio

Sets the screen display mode.

16:9: Displays wide pictures.

- **4:3 LB**: Displays wide pictures in the Letter Box format (having black stripes at the top and bottom of screen).
- **4:3 PS (Default)**: Displays wide pictures in the Pan & Scan format (showing pictures cut at the right and left ends).

Language setup

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

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

Language Set screen appears.

2 Select a language.



For language code, refer to **DVD Language Codes (P.117)**.

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

NOTE

• To set the DVD's original language for audio language, touch [Original].

CD/Audio and Visual Files/iPod/APPS

See the following sections for each source operation.

- Music CD (P.32)
- Disc media (P.33)
- USB device (P.33)
- iPod (P.33)

Preparation

• To connect the Android device with this unit, the cable (sold separately) and the profile which your Android device supports are necessary as follows:

Use application	Sold separately	Automotive Mirroring	
To Android Auto source	Micro USB to USB	ON (P.42)	
(Android version 5.0 (Lollipop) or later)	cable		
Use application	Sold separately	APP Connection select	Bluetooth Connection
To listen to music and watch video of	MHL or HDMI	 Android Bluetooth 	Audio (A2DP)/App (SPP)
Mirroring source	device	HDMI/MHL	
	KCA-MH100 (MHL)		
	or KCA-HD100		
	(HDMI)		
To listen to music of Bluetooth Audio			Audio (A2DP)/App (SPP)
source	-		

• To connect the iPod/iPhone with this unit, the cable, adapter (both sold separately), and the profile which your iPod/iPhone supports are necessary as follows:

Use application	Sold separately	Automotive Mirroring		
To Apple CarPlay source	KCA-iP103	ON <u>(P.40)</u>		
Use application	Sold separately	APP Connection select (iPod Connection)	Bluetooth Connection	
To listen music and watch video with Lightning connector device	 Lightning Digital AV Adapter KCA-HD100 KCA-iP103 	 iPhone Bluetooth HDMI/MHL (Bluetooth+HDMI/MHL) 	Audio (A2DP)/App (SPP)	
To listen music with Lightning connector device	KCA-iP103	iPhone USB (USB)	_	
To listen music with 30-pin connector device	KCA-iP102	iPhone USB (USB)	_	
To listen to music via Bluetooth	-	iPhone Bluetooth (Bluetooth)	Audio (A2DP)/App (SPP)	

- When connecting with Lightning Digital AV Adapter some applications can be controlled from this unit. The operable functions depend on the application.
- Do not leave the cable or the adapter made by other makers inside the car. It might lead the malfunction caused by heat.
- Some settings are necessary to meet the connected iPod/iPhone or Android device. Refer to APP/iPod settings (P.31) and Connecting the Bluetooth unit (P.68) .

- Mirroring (P.39)
- Apple CarPlay (P.40)
- Android Auto (P.42)

APP/iPod settings

Select how to connect your android smartphone or iPhone to use apps like Mirroring, etc.

Preparation

 To connect an Android device or iPhone via Bluetooth, register it as the Bluetooth device and do the profile setting of the connection beforehand. See *Registering from the Bluetooth unit (P.67)* and *Connecting the Bluetooth unit (P.68)*.

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [AV].



AV screen appears.

4 Set [Automotive Mirroring] to [OFF].



5 Touch [APP/iPod SETUP].



App/iPod SETUP screen appears.

6 Set each item as follows.

APP Conne	ection select			
	Android Bluetooth	1	HDMI/MHL	
	iPhone Bluetooth	274	(10)Mil/Millic	
	iPhone U	JSB		
Pod Conn	ection			
	USB			
			Do	

APP Connection select

Select how to connect your smartphone.

- Android Bluetooth: Connect an Android smartphone via Bluetooth.
- iPhone Bluetooth: Connect an iPhone via Bluetooth.
- HDMI/MHL: Connect an Android smartphone or iPhone via Bluetooth and watch its video via HDMI/MHL.
- iPhone USB: Connect an iPhone through an USB cable.

iPod Connection

It shows how the device that is used in the iPod source is connected. It changes depending on the "APP Connection select".

7 Touch [Done].

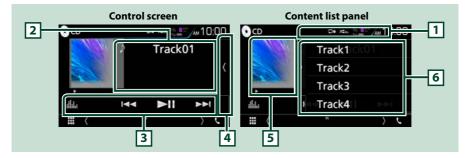
Music/Video Basic Operation

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

NOTE

- Set the remote controller mode switch to AUD mode before starting operation, see <u>Switching the operation</u> mode (P.103).
- In this manual, "Music CD" will be referred to as the general CDs which include music tracks in. "Disc media" will be referred to as CD/DVD disc which includes audio or video files.
- The screen shot below is for CD. It may be different from the one for disc media.

Music CD



1[♀]/[≭]

- [] : Repeats the current track. Each time you touch the key, repeat mode switches in the following sequence; Track repeat (), Repeat all ()
- [] Randomly plays all tracks in disc. Each time you touch the key, random mode switches in the following sequence; Track random (2010), Random off (2010)

2 Track information

Displays the information of the current track.

3 Function bar

Various functions can be performed by using keys in this area. For details on the menu, see *Function bar* (*P.34*).

• [] : Displays the Graphic Equalizer screen. (P.94)

4 Content list

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

5 Play mode indicator

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

6 Content list panel

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

Disc media, USB device, SD card, and iPod

To enter USB/ SD/ iPod source, touch [USB], [SD] or [iPod] icon in the HOME screen.

NOTE

- SD card is for DNX893S, DNX773S, DNX693S, and DNX573S only.
- The screen shot below is for USB device. It may be different from the one for iPod.



1 [🖓]/[🗶]

• [] : Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence;

Disc media, USB device, SD card: File repeat (💭), Folder repeat (💭), Repeat all (问) iPod: Song repeat (问), All songs repeat (问)

• [72] : Randomly plays all tracks in current folder/disc. Each time you touch the key, random mode switches in the following sequence;

Disc media, **USB device**, **SD card**: File random (), Random off () iPod: Song random (), Album random (), Random off ()

2 Track information

- Displays the information of the current file. Only a file name and a folder name are displayed if there is no tag information.
- iPod: Touch to display the category list screen. See Category search (P.36).

3 Function bar

Various functions can be performed by using keys in this area. For details on the keys, see *Function bar* (*P.34*).

• []: Displays the Graphic Equalizer screen. (P.94)

4 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see *Function panel (P.35)*.

5 Content list

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

6 Artwork/ Play mode indicator

The jacket of the currently playing file is displayed.

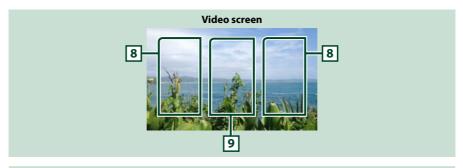
• ►, ►►, etc.: Current play mode indicatory The meanings of each icon are as follows; ► (play), ►► (fast forward), ◄◄ (fast backward), Ⅱ (pause).

Continued

CD/Audio and Visual Files/iPod/APPS

7 Content list panel

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



8 Searching file area (video file only)

Touch to search the next/previous file.

9 Key display area (video file only)

Touch to display the control screen.

Function bar

Music CD			Disc media	a		
	¥		Q			
iPod			USB devic	e and SD ca	rd	
Q	×		Q	X		

The following functions can be performed by using keys in this area.

[Q] (Disc media, iPod, USB device, and SD card only)

Searches track/file. For details on search operation, see Search Operation (P.36).

Searches the previous/next track/file.

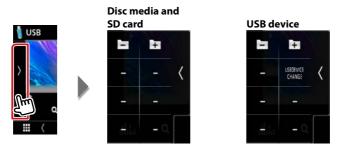
Touch and hold to fast forward or fast backward. (audio and video file only) (It will be cancelled automatically after about 50 seconds.)

[►II]

Plays or pauses.

Function panel

1 Touch on the left side of the screen.



The following functions can be performed by using keys in this area.

[+] [-] (disc media, USB device, and SD card only)

Searches previous/next folder.

[USB DEVICE CHANGE] (Only for USB device of DNX893S/ DNX7160BTS/ DNX693S/ DNX5160BTS)

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

Search Operation

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

NOTE

 If you use a remote control, you can jump directly to the desired track/file with entering the track/ folder/file number, play time, etc. For details, see Direct search mode (P. 103).

List search

You can search tracks, folders, and files according to hierarchy.

1 Touch on the right side of the screen.



Control list appears.

2 Touch desired track/file.



Playback starts.

NOTE

• For disc media, you cannot display the list during random play and stop.

Category search (iPod only)

You can search a file by selecting category.

- 1 Touch [Q]. Category List screen appears.
- **2** Touch [▼].



3 Touch [Category List].

Category List	Ś
Link Search	-
Album	
Artist	

4 Touch the desired category.

Category List 🛛 🚽		Ś
Song	< ► Play	
Album	<	
Artist	< A-2	n
✓ Genre	K Top	•
PlayList	< the up	I

5 The list is sorted by selected category.

6 Touch desired item.

Playback starts.

NOTE

- Touch [A-Z] to narrow the search you can select a letter.
- For operations in the list screen, see *List screen* (P.19).

Link search (iPod only)

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

1 Touch [Q].

Category List screen appears.

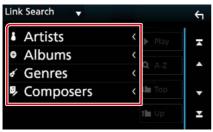
2 Touch [▼].



3 Touch [Link Search].



4 Touch the desired item. You can select from artist, album, genre and composer.



The list corresponding to your selection appears.

NOTE

- The list is sorted by the way you selected.
- Artists: Displays the album list of the artist.
- Albums: Displays all tunes of the current album.
- Genres: Displays the artists list in which artists belong to the same genre.
- Composers: Displays the album list of the composer of the current file.
- 5 Touch to select desired item in the list. Repeat this step until you find the desired file.

NOTE

- Touch [A-Z] to narrow the search you can select a letter.
- For operations in the list screen, see *List screen* (P.19).

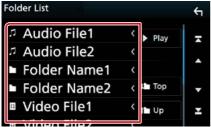
Folder search (USB device, disc media, and SD card only)

You can search a file according to hierarchy.

1 Touch [Q].

Folder List screen appears.

2 Touch the desired folder.



When you touch a folder its contents are displayed.

3 Touch desired item from the content list.

Playback starts.

NOTE

• For operations in the list screen, see *List screen* (P.19).

Mirroring Operation

You can listen to music or watch video from the Mirroring operating on Android.

Preparation

- The unit and the Android device are connected with MHL (KCA-MH100 ; sold separately) or HDMI (KCA-HD100 ; sold separately).
- Select how to connect the unit with your smartphone. For the details, refer to <u>APP/iPod</u> settings (P.31).

Preparation

1 Press the DNX(3)(1) <MENU> button/ DNX(3)(5) volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [AV].

AV screen appears.

4 Set [Automotive Mirroring] to [OFF].



5 Connect an Android device.



- 1 Press the <HOME> button.
- 2 Touch []].
- **3** Touch [Mirroring].

Apple CarPlay Operation

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

For details about CarPlay, visit <u>https://ssl.</u> apple.com/ios/carplay/.

Compatible iPhone devices

You can use CarPlay with the following iPhone models.

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

Preparation

Press the DNX(3) <MENU> button/ DNX(3) volume knob.

Popup menu appears.

- 2 Touch [SETUP]. SETUP Menu screen appears.
- 3 Touch [AV].

AV screen appears.

4 Set each item as follows.



Automotive Mirroring

Select "ON" to use Apple CarPlay. "ON" (Default)/ "OFF"

CarPlay Sidebar

Select the position of the control bar (left or right) shown on the touch panel. "Left" (Default)/ "Right"

5 Connect iPhone using KCA-iP103.

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

6 Unlock your iPhone.

Operation buttons and available Apps on the home screen of CarPlay

You can use the Apps of the connected iPhone.

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

To enter CarPlay mode, touch [Apple CarPlay] icon in the HOME screen.



1[0]

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

2 Application buttons

Starts the application.

3 [HOME]

Exits the CarPlay screen and displays the Home screen.

To exit the CarPlay screen

1 Press the <HOME> button.



You can activate Siri.

1 Press the < == > button for 1 second.





2 Talk to Siri.

To deactivate

1 Press the < ⊒≡ > button.

Android Auto™ Operation DNX8 DNX7

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

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

Compatible Android devices

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

Note

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

Preparation

- 1 Press the <MENU> button. Popup menu appears.
- 2 Touch [SETUP].
 - SETUP Menu screen appears.
- 3 Touch [AV].

AV screen appears.

4 Set [Automotive Mirroring] to [ON].



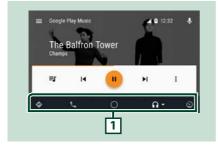
5 Connect an Android device via iPod/ iPhone terminal.

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

- When an Android device compatible with Android Auto is connected to the iPod/iPhone terminal, the device is connected via Bluetooth automatically, and the Bluetooth smartphone currently connected is disconnected.
- **6** Unlock your Android device.

Operation buttons and available Apps on the Android Auto screen

You can perform the operations of the Apps of the connected Android device. The items displayed on the screen differ among the connected Android devices. To enter Android Auto mode, touch [Android Auto] icon in the HOME screen.



1 Application/information buttons

Starts the application or displays information.

To exit the Android Auto screen

1 Press the <HOME> button.

Using voice control

1 Press the < 🖃 > button for 1 second.



To cancel

1 Press the < 🖃 > button.

Radio and HD Radio[™] Tuner

Radio/HD Radio Tuner Basic Operation

Most functions can be controlled from the source control screen. To enter Radio/HD Radio source, touch [Radio] or [HD Radio] icon in the HOME screen.

NOTE

- Set the remote control mode switch to AUD mode before starting operation, see <u>Switching the operation mode</u> (P.103).
- HD Radio broadcasting can be received only by the DNX893S, DNX773S, DNX693S, and DNX573S.
- HD Radio broadcasting is for North American sales area only.
- The screen shot below is for tuner. It may be different from the one for HD Radio broadcasting.



1 Indicator display

While receiving an HD Radio station, it lights with orange when the audio is digital and lights with gray when it is analog. While receiving an analog station, it is off.

2 Information display

Displays the information of the current station: Frequency and Channel

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

	HD Radio tuner	Radio
Content A	Station name, Song Title, Artist Name	PS name, Radio Text, Title & Artist
Content B	Station Message, Radio Text	PTY Genre, Radio Text plus
Content C	PTY Genre, Album Name	-

3 [AUTO1]/[AUTO2]/[MANUAL]

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

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

4 Function bar

Various functions can be performed by using keys in this area. For details on the menu, see *Function bar* (*P.45*).

• [] : Displays the Graphic Equalizer screen. (P.94)

5 Preset key

Recalls the memorized station or channel.

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

6 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see *Function panel (P.45)*.

7 Picture

The picture data or station Logo data is displayed if available from current content.

8 [FM] [AM]

Switches the band.

9 Preset list

Recalls the memorized station or channel. When touched for 2 seconds, stores the current receiving station or channel in memory.

HD Radio tuner

Q

≡ľ

Function bar

Radio

The functions of each key are as follows.

Tunes in a station. The method of frequency switching can be changed. (see 3 in table).

[CH▼] [CH▲] (HD Radio tuner only)

Selects a channel.

[Q] (HD Radio tuner only)

Display the Cannel List screen. See Channel search (P.49).

[= [] (HD Radio tuner only)

Display a list of registered bookmarks. See **Bookmark list (P.52)**.

Function panel

1 Touch on the left side of the screen.



The functions of each key are as follows.

HD Radio tuner



[10key Direct] (HD Radio tuner only)

Display the direct station/ channel search screen. For details, see Direct search (P.49).

[TI] (Only for FM Tuner of DNX7160BTS/ DNX5160BTS)

Sets the traffic information mode on. For details, see Traffic Information (P.50).

[AME]

Presets stations automatically. For details, see Auto memory (P.47).

[RCV] (HD Radio tuner only)

Change the HD Radio reception mode. For details, see Receive Mode (P.51).

[PTY] (FM Tuner and HD Radio tuner only)

Searches a program by setting program type. For details, see Search by program type (P.48).

[📝] (HD Radio tuner only)

Stores the information about the song being received. See Bookmark (P.51).

[Emergency Alerts] (HD Radio tuner only)

Turn on or off the alert message. See Alert Message (P.53).

[Alert Message Log] (HD Radio tuner only)

Displays the alert message received. See *Alert Message (P.53)*.

[MONO] (FM Tuner only)

This HD Radio receiver enables:

Select the Monaural reception.

Radio

HD2/HD3

Bookmark

Digital Sound

Program Info

Artist Experience

Emergency Alerts

HD2/HD3

 Adjacent to traditional main stations are HD2/HD3 Channels, providing new original programming on the FM dial

Bookmark

• A music & product discovery feature that enables users to store information about content on the radio, and can deliver interactive information via QR codes

Digital Sound

Crystal clear, CD-like digital audio quality to consumers; eliminates background noise

Program Info

• Provides song name, artist, station ID, and other relevant data to enrich the listening experience

Artist Experience

 Visual images, such as album art of over-the-air broadcasts from HD Radio stations

Emergency Alerts

Delivers critical and life-saving messages to the public during emergency situations

Memory Operation

Auto memory

You can store stations with good reception in memory automatically.

1 Touch desired band key.



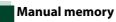
2 Touch on the left side of the screen. Touch [AME].



3 Touch [Yes].



Auto memory starts.



You can store the current receiving station or channel in memory.

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

Selecting Operation



Preset select

You can list and select memorized station or channel.

Selecting from the preset list

1 Touch on the right side of the screen.



List Control screen appears.

2 Select a station or channel from the list.



Search by program type (FM tuner and HD Radio tuner only)

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

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



TUNER PTY Mode screen appears.

2 Select a program type from the list.

3 Touch [Search].

PTY Search		÷
FM 99.9MHz		
News	<	-
Information	< Search	_
Sports	<	•
Talk	<	×
Rock	2	

You can search a station of the selected program type.

Direct search (HD Radio tuner only)

You can tune in by entering the desired frequency or channel number.

1 Touch on the left side of the screen. Touch [10key Direct].



10Key Direct screen appears.

2 Select the search method.



3 Enter the frequency or channel number.

4 Touch [Enter].

NOTE

To clear the number you entered, touch [BS].

Channel search (HD Radio tuner only)

You can specify the desired channel.

1 Touch [Q].



Channel list appears.

2 Select the desired content from the list.

Channel List			Ś
Song Title 1	<		-
Song Title 2	<	Song Info	
Song Title 3	<	Change	•
Song Title 4	<		•
Song Title 5	<		¥
Constitute C			

NOTE

• Touch [Info Change] in the channel list. Select the sequence of the list (Song title, artist name, album name).

Traffic Information (Only for FM Tuner of DNX7160BTS/ DNX5160BTS)

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

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



Traffic information mode is set.

When the traffic bulletin starts

The Traffic Information screen appears automatically.

	TI	
Radio	Traffic Informa	ation

NOTE

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

Receive Mode (HD Radio tuner only)

You can set the radio broadcasts receive mode.

1 Touch on the left side of the screen. Touch [RCV].



HD Radio tuner Mode screen appears.

2 Select a receive mode.



[Auto]

Switch between digital and analog audio automatically.

[Digital]

Select this to tune to digital audio only

[Analog]

Select this to tune to analog audio only.

Bookmark (HD Radio tuner only)

Stores tag information (title, artist, album, URL, and description) about the song you are listening to now.

Detailed information and QR codes can be displayed according to the stored tag information.



Touch on the left side of the screen. Touch [].



Registers a bookmark.

NOTE

• Up to 100 bookmarks can be registered to this unit.

Bookmark list

Displaying a list of registered bookmarks and detailed information and QR code of the song.

1 Touch [📑 🚺].



The Bookmark List appears.

2 Select the desired bookmark from the list.

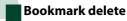


The bookmark information appears.



[🌇 Delete]

Deletes the bookmarks being displayed.



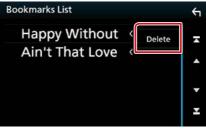
Deleting a bookmark.

1 Touch [**■**[].



The Bookmark List appears.

2 Touch [Delete].



The Bookmark Delete List appears.

3 Select the bookmark to delete from the list.



[🗹 AII]

Select all bookmarks.

[🗆 AII]

Erases all check marks.

4 Touch [🌇].

Deletes all the selected bookmark(s)

Alert Message (HD Radio tuner only)

This function is to receive alert messages. First, you need to turn on the "Emergency Alerts" (*P.46*)

When an Alert Message comes

	yyyy-mm-dd_hh:mm P	M / CategoryName	-p:00
			FM 01
	Message		FM 03
alda			FM 04
	Snooze	Ignore	

[Snooze]

The alert message is erased. Same alert message cannot be displayed for next 10 minutes.

[Ignore]

The alert message is erased. Same alert message cannot be displayed for next 12 hours.

Display of the received Alert Message

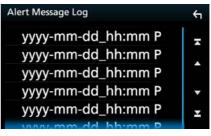
You can read the received alert message afterward.

1 Touch on the left side of the screen. Touch [Alert Message Log].



The Alert Message Log appears.

2 Select the desired Alert Message from the list.



The Alert Message appears.



3 Touch [Close].

SiriusXM[®]

SiriusXM[®] Basic Operation

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com.

To enter SiriusXM source, touch [SiriusXM] icon in the HOME screen.

Activating subscription

- Check your Radio ID.
- The SiriusXM Satellite Radio ID is required for activation and can be found by tuning to Channel 0 as well as on the label found on the SiriusXM Connect tuner and its packaging. The Radio ID does not include the letters I, O, S or F.
- Activate the SiriusXM Connect Vehicle Tuner using one of the two methods below:
- For users in the U.S.A.

Online: Visit www.siriusxm.com/activatenow Phone: Call SiriusXM Listener Care at 1-866-635-2349 For users in Canada:
 Online: Visit www.siriusxm.ca/activatexm
 Phone: Call XM customer Care at 1-877-438-9677

NOTE

- Set the remote control mode switch to AUD mode before starting operation, see <u>Switching the operation mode</u> (P.103).
- To use SiriusXM® Satellite Radio, the optional accessory is necessary.
- · SiriusXM® Satellite Radio are for North American sales area only.



1 Indicator display

Displays the "Mix" (TuneMix™), "Scan" (TuneScan™) indicator and the received signal strength of the SiriusXM tuner.

2 Information display

Displays the information of the current channel: Channel Name

Touching [🔘] allows you to switch between Content A and Content B.

- Content A: Artist Name, Song Title, Content Info
- Content B: Category Name, Channel Description, Similar Channels

3 [SEEK]

Switches the seek mode in the following sequence; [SEEK1], [SEEK2].

- SEEK1: Tunes channels one after the other.
- SEEK2: Selects channels in preset (memory) one after the other.

4 Function bar

Various functions can be performed by using keys in this area. For details on the menu, see *Function bar* (*P.55*).

• [1: Displays the Graphic Equalizer screen. (P.94)

5 Preset key

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

6 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see *Function panel (P.56)*.

7 Information display

Displays the following information.

- SXM#: Band display
- Preset #: Preset number
- #CH: Channel display
- · Logo: Display album artwork for most SiriusXM music channels

8 Preset list

Recalls the memorized station or channel. When touched for 2 seconds, stores the current receiving station or channel in memory.

Function bar



The functions of each key are as follows.

[►II]

Plays or pauses. See *Replay (P.60)*.

[CH▼] [CH▲]

Selects a channel.

[Q]

Display the Category search screen. For details on search operation, see *Category/Channel search* (P.58).



1 Touch on the left side of the screen.



The functions of each key are as follows.

[Direct Channel]

Touch and enter the desired number. For details, see Direct search (P.58).

[SETUP]

Touch to display the SiriusXM SETUP screen. For details, see SiriusXM Setup (P.63).

[Band]

Switches the band. (SXM1/ SXM2/ SXM3/ SXM4)

[Replay]/[Live]

Turns the replay mode on or off. See *Replay (P.60)*.

[TuneScan]*1

Hear a few seconds of the songs from each of the SmartFavorite music channels on the current preset band. See $TuneScan^{TM}$ (P.62).

[TuneMix]*2

When you turn it ON, the preset channels on P1-P6 are shuffled to provide a playback which is a blend of songs from your favorite channels. See *TuneMix*TM (*P.61*).

*1 Compatible with SXV200 or later tuner models.

*2 Compatible with SXV300 or later tuner models.

Storing Channels in Preset Memory

You can store the current channel in memory.

- 1 Tune to a channel you wish to store in memory.
- 2 Touch on the right side of the screen.



3 Press and hold for 2 seconds (until you hear a beep) the preset number [SXM(1-4) P(1-6)] in which you want to store the channel.

Preset select

You can list and select memorized station or channel.

Selecting from the preset list

1 Touch on the right side of the screen.



List Control screen appears.

2 Select a channel from the list.



Direct search

You can tune to a channel directly.

1 Touch on the left side of the screen. Touch [Direct Channel].



10Key Direct screen appears.

2 Enter the channel number and touch [Enter].



NOTE

• To clear the number you entered, touch [BS].

Category/Channel search

You can specify the desired category and select a channel.

1 Touch [Q].



Category list appears.

2 Select a category.

Category List	ξı
All-Channels	
Howard Sterm	
More	•
Music	-
News & Isssues	×

Channel list appears.



NOTE

- All the channels in the selected category appear.
- Touching [All-Channels] displays all the channels.
- Touch [Info Change] in the channel list. Select the sequence of list as follows; Channel name, artist name, song title, category name, content info
- Categories which have the prefix "Featured " are Featured Favorites.
- Featured Favorites are groups of channels that are created by the SiriusXM Programming department allowing you to discover new channels. Featured Favorite channels are dynamic and can change often, allowing you to discover new channels.

SiriusXM[®]

Replay

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

1 Touch [►II] or [Replay] on the function panel.



$[| \blacktriangleleft \blacklozenge] [\blacktriangleright \blacktriangleright |]$

Press to skip to the previous/next track.

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

[►II]

Plays or pauses.

[CH▼] [CH▲]

Tune in a channel.

Replay time bar/ Play mode indicator

Display recorded capacity and playback position.

• ►, ►►, etc.: Current play mode indicatory.

[Q]

Display a list of recorded data on a program basis.

Function panel

Touch on the left side of the screen.

[Live]

Return to live music/content.

2 Touch [Q] to display an Instant Replay list.

Instant Replay List			÷
Live	<		-
siriusxm.com	<	NFO Info	
ABC	<	Change	
The theme	<		•
Let's drive	<		¥
DEE			

Instant Replay List

Touching this plays back the displayed program.

[Info Change]

Touch [Info Change]. Select the sequence of the list as follows; Artist name, Song title, Category name, and Content info

SmartFavorites, TuneStart™

Preset channels 1 through 6 of the current band are SmartFavorites channels. The SiriusXM Vehicle Tuner automatically buffers the broadcast audio content of the SmartFavorites channels in the background.

You can rewind and replay up to 30 minutes of any of the missed news, talk, sports or music content when you tune to a SmartFavorites channel. (see *Replay* (*P.60*))

When tuning from a SmartFavorites channel, songs will play from the beginning of each track (TuneStart™). You can enable/disable TuneStart. (see *TuneStart*™ (*P.65*))

NOTE

Compatible with SXV200 or later tuner models.

TuneMix™

TuneMix[™] plays a unique blend of songs from your Preset music channels from the current SiriusXM Preset Band, allowing you to build a custom channel from as few as two to as many as 6 music channels. You can even skip songs you don't want to hear.

1 Touch on the left side of the screen.



2 Touch [TuneMix] to set ON or OFF.

NOTE

Compatible with SXV300 or later tuner models.

TuneScan™

TuneScan[™] is a feature that plays samples from the starts of multiple buffered songs from each of the SmartFavorites channels that predominantly play music selections.

You have easy access to a large sampling of music content and can enjoy hearing a full song when stopping the scan on a song of interest.

1 Touch on the left side of the screen.



2 Touch [TuneScan] to begin scanning your SmartFavorites channels.

You will hear a few seconds of the songs from each of the SmartFavorite channels.

3 Touch [TuneScan] again while your favorite song is being played to start listening to that song.



Scan finishes and continues playing the song.

NOTE

- To cancel TuneScan[™], Touch on the left side of the screen. Touch [TuneScan].
- Touch and hold [TuneScan] to cancel TuneScan, the channel before starting TuneScan will be played.
- · Compatible with SXV200 or later tuner models.

SiriusXM Setup

1 Touch on the left side of the screen.



2 Touch [SETUP].



SiriusXM SETUP screen appears. See the following section for each setting.

- Set up the parental code (P.63)
- Set up the Parental Control (P.64)
- Set up the skip channel select (P.65)
- Set up the TuneStart[™] (P.65)
- Reset to the default settings (P.65)



You can set a SiriusXM parental code for Parental Control.

1 Touch [Parental Code] in the SiriusXM SETUP screen.

Parental Pass Check screen appears.

NOTE

• The code number is set to "0000" as default.

2 Enter the current code number.



Parental Pass 1st entering screen appears.

3 Enter the new code number and touch [Enter].



Parental Pass 2nd entering screen appears.

4 Enter the same code number as you input in step 3 and touch [Enter].

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



Parental Control is a feature that provides the user with the ability to prevent unauthorized access to mature content and user selected channels.

- 1 Touch [Parental Control] in the SiriusXM SETUP screen.
- 2 Touch [Mature], [User] or [OFF].

[OFF]

Deactivates the parental mature and user locks.

[Mature]

Locks channels classified as "mature" only.

[User]

Locks only the selected channels.

3 Enter the parental code you originally input in <u>Parental code (P.63)</u> and touch [Enter].

When selecting [User]

This allows you to limit access to any SiriusXM channel (Parental Lock Channel).

1 Touch [Parental Lock Channel Selection] in the SiriusXM SETUP screen.

Parental Pass Check screen appears.

NOTE

• You need to set up a *Parental code (P.63)* beforehand.

2 Enter the parental code you originally input in <u>Parental code (P.63)</u> and touch [Enter].

Parental Lock Category Select screen appears.

3 Touch the desired category from the list.

Parental Lock Category Selection	ct	÷
All-Channels	Disable All	-
Рор		
Rock		•
Hip-Hop/R&B		•
Dance/Electronic		¥
277		

Displays all the channels in the selected category.

NOTE

- Touch [All-Channels] to display all the channels.
- To delete the parental lock channel setting, touch [Disable All] and then touch [YES] on the confirmation screen.

4 Touch each channel on the list and set to ON or OFF.

On: If you wish to set the lock. Off: If you wish to unlock the channel.

Parental Lock Chann	nel Sel	ect	t	÷
2 CH: Hits 1	ON	<		-
3 CH: 20 on	ON	<	INFO Info	
4 CH: 40s on	ON	<	Change	
5 CH: 50s on	ON	<		•
6 CH: 60s on	ON	<		¥
7 CH 70				

NOTE

 Touch [Info Change]. Select the sequence of the channel list as follows;
 Channel name, Artist name, Song title, Category

name, Content information.



Skip channel select

You can set the undesired channels to skip.

- 1 Touch [Skip Channel Select]. Skip Category Select screen appears.
- 2 Touch the desired category from the list.

Skip Category Select			÷
All-Channels	<	Disable All	-
Рор	<		
Rock	۲		-
Hip-Hop/R&B	<		•
Dance/Electronic	<		¥
277	1		

Displays all the channels in the selected category.

3 Touch each channel on the list and set to ON or OFF.



NOTE

- To delete the skip channel setting, touch [Disable All] and then touch [YES] on the confirmation screen.
- Touch [Info Change]. Select the sequence of the channel list as follows; Channel name, Artist name, Song title, Category name, Content information.



1 Touch [Tune Start] in the SiriusXM SETUP screen.

The TuneStart is turned on or off. Default is "ON".



1 Touch [SiriusXM Reset] in the SiriusXM SETUP screen.

Confirmation screen appears.

2 Touch [YES].

All SiriusXM settings return to default.

Bluetooth Control

Using the Bluetooth function, various functions can be used: listening to the audio file, making/receiving a call.

About the cell-phone and Bluetooth audio player

This unit conforms to the following Bluetooth specifications:

Version

Bluetooth Ver. 3.0

Profile

Cell-phone:

HFP (V1.6) (Hands Free Profile) SPP (Serial Port Profile) HID (Human Interface Device Profile) PBAP (Phonebook Access Profile) GAP (Generic Access Profile)

Audio player:

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

Sound codec

SBC, AAC

NOTE

- For the cell-phones verified for compatibility, access the following URL: http://www.kenwood.com/cs/ce/bt/.
- The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG.

However, it may be impossible for such units to communicate with your cell-phone depending on its type.

Registering and Connecting Bluetooth Unit

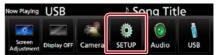
It is necessary to register the Bluetooth audio player or cell-phone to this unit before using the Bluetooth function.

You can register up to 10 Bluetooth units.

1 Press the DNX(3)(1) <MENU> button/ DNX(3)(5) volume knob.

Popup menu appears.

2 Touch [SETUP].



SETUP Menu screen appears.

3 Touch [Bluetooth].



Bluetooth SETUP screen appears. See the following section for each setting.

- Registering from the Bluetooth unit (P.67)
- Connecting the Bluetooth unit (P.68)
- Change the PIN code (P.69)

Registering from the Bluetooth unit

Follow the step 1, 2 and 3 for registration.

Step 1: Registration from the Bluetooth device

- 1 Search the unit ("DNX****") from your smartphone/cell-phone.
- 2 Input the PIN code in your smartphone/ cell-phone.

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



SSP (Secure Simple Pairing of Bluetooth 2.1 or later)

- 1 Search the unit ("DNX****") from your smartphone/cell-phone.
- 2 Confirm the request both on the smartphone/cell-phone and the unit.





NOTE

- A new device cannot be registered if there are 10 registered Bluetooth units. Delete unnecessary registration. See <u>Connecting the Bluetooth unit</u> (P.68).
- This unit is compatible with the Apple Easy Pairing function. When an iPod touch or iPhone is connected to this unit, an authentication dialog appears. Performing operation for authentication on this unit or iOS smartphone registers the smartphone as a Bluetooth device.

Step 2: Connection settings

1 Select the hands-free number to connect.

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



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

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

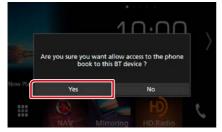


Continued

Step 3: Phonebook transfer

1 Select if you want to transfer your phonebook data.

This message appears if the device supports PBAP.



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

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

Connecting the Bluetooth unit

1 Touch [Select Device] in the Bluetooth SETUP screen.



2 Touch the device name you want to connect.

Selec	t Device		÷
1	Device Name1	Delete	-
2	Device Name2	Delete	
	Device Name3		^
	Device Name4		-
	Device Name5		¥

Profile select screen appears.

NOTE

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

3 Set each profile as follows.



TEL (HFP) 1, TEL (HFP) 2

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

Audio (A2DP)/App (SPP)

The device is connected with the unit as an audio player or as a smartphone with apps installed.

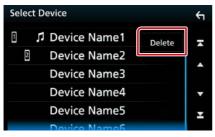
4 Touch [Close].

NOTE

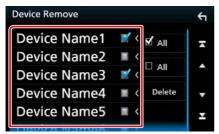
• If a device has been paired, the Bluetooth unit cannot be connected from the paired device.

Deleting the registered Bluetooth unit

1 Touch [Delete].



2 Touch the device name to check.



[🗹 AII]

Select all Bluetooth unit.

[🗆 AII]

Erases all check marks.

3 Touch [Delete].

Confirmation message appears.

4 Touch [Yes].

Change the PIN code

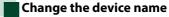
1 Touch [PIN Code] in the Bluetooth SETUP screen.

PIN Code Set screen appears.

2 Input the PIN code



3 Touch [SET].



1 Touch [Device Name] in the Bluetooth SETUP screen.

Change Device Name screen appears.

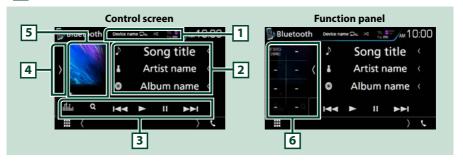
2 Input the device name



3 Touch [Enter].

Playing Bluetooth Audio Device

Bluetooth basic operation



1 Device name/ [🖸] / [😕]

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

2 Information display *

Displays the name of the track information.

3 Function bar

- [I-]: Searches the previous/next content.*
- [▶]: Plays.*
- [III]: Pauses.*
- [Q]: Searches file.* See Folder search (P.71).
- []: Displays the Graphic Equalizer screen. (P.94)

4 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see *Function panel (P.71)*.

5 Play mode indicator

►, II: Current play mode indicator The meanings of each icon are as follows; ► (play), II (pause).

6 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see *Function panel (P.71)*.

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

NOTE

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

Function panel

1 Touch on the left side of the screen.



The following functions can be performed by using keys in this area.

[BT DEVICE CHANGE]

Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP). See <u>Connecting</u> the Bluetooth audio (P.71).

Connecting the Bluetooth audio

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

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





2 Touch the device name you want to connect.

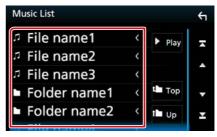
	Please select the	device.
	Device name1	•
12	Device name2	Q.1
	Device name3	ф.
	Device name4	
	Close	
	1)

3 Touch [Close].



1 Touch [Q].

2 Touch the desired file or folder.



When you touch a folder its contents are displayed.

3 Touch desired item from the content list.

Playback starts.

NOTE

• For operations in the list screen, see *List screen* (P.19).

Bluetooth Control

Using Hands-Free Unit

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

Making a call

1 Touch [�_].



Hands Free screen appears.

NOTE

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

2 Select a dialing method.



- [ዙ]: Call by entering a phone number
- [🔄]: Call using call records
- [🖭]: Call using the phonebook
- [\star]: Call using the preset number
- [🏘]: Voice Recognition (P.75)

Select the cell-phone to use

When you connect two cell-phones

 Touch [Device name] Device name2] to select the phone you want to use.

Bluetooth SETUP

① Touch []. Bluetooth SETUP screen appears.

NOTE

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

Call using call records

1 Touch [🔽].

2 Select the phone number from the list.



Call by entering a phone number

- 1 Touch [🔡].
- 2 Enter a phone number with number keys.



3 Touch [📞].

Call using the preset number

- 1 Touch [★].
- **2** Touch the Name or phone number.

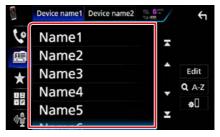


Call using the phonebook

- 1 Touch [🖭].
- 2 Touch [Q A-Z].
- **3** Select the initial.



- Characters with no corresponding name will not appear.
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".
- 4 Select the person you want to call from the list.

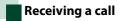


5 Select the phone number from the list.

Ph	Phone book Detail					
ŧ	Name Phone number1	-				
۵	Name Phone number2					
	Name Phone number3	<u>^</u>				
	Name Phone number4	-				
	Name Phone number5	×				
Ē	Name					

NOTE

 You can set the list to arrange in the order of last name or first name. For details, see <u>Hands-Free</u> Setup (P.76).



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



NOTE

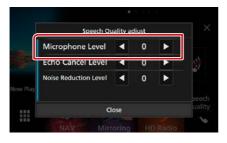
• While monitoring the view camera, this screen does not appear even if a call comes in. To display this screen, press the <TEL> button or return the shift knob of car to the driver position.

Operations during a call



Adjust the volume of your voice

- ①Touch [Speech Quality].
- ② Touch [◀] or [▶] of [Microphone Level].



Adjust the receiver volume

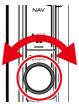
DNX8 DNX7

Press the $< \mathbf{\nabla} >$ or $< \mathbf{\Delta} >$ button.



DNX6 DNX5

Turn the volume knob.



Mute your voice

Touch [💓] to mute or not to mute your voice.

Output the dial tone

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

Switching the speaking voice output

Call-waiting

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

Each time you touch []], the caller will change.

When you touch [____], the current call will end and switch to the call in hold.

$[\times]$

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

Phone number preset

You can register frequently used phone numbers to this unit.

1 Touch [★].

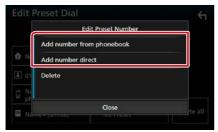
2 Touch [Edit].



3 Select where to preset.

Edit Preset Dial		÷
🏚 Name1 (Home)	Name5	
123456789012	No Preset	
Name3 (Mobile	No Preset	
Name4 (Office)	No Preset	Delete al

4 Select how to preset.



- [Add number from phonebook]: Select the number to preset by referring to "Call using the phonebook". See <u>Call using the</u> phonebook (P.73).
- [Add number direct]: Enter the telephone number directly and touch [SET]. See <u>Call by</u> <u>entering a phone number (P.73)</u>.

NOTE

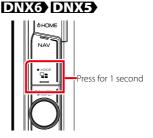
• To delete the preset number, touch [Delete] and then touch [OK] on the confirmation screen.



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

1 Press the < == > button for 1 second.





Voice Recognition screen appears.

2 Start speaking.

NOTE

You can use voice recognition function by touching [
 Implies] on the Hands Free screen.

Bluetooth Control



Phonebook transfer

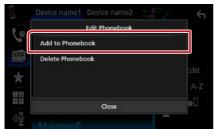
You can transfer the phonebook in your Bluetooth smartphone via PBAP.



2 Touch [Edit].



3 Touch [Add to Phonebook].



The phonebook data transmission starts.

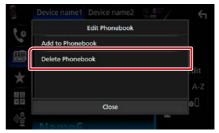
Phonebook deletion

1 Touch [🖭].

2 Touch [Edit].



3 Touch [Delete Phonebook].



4 Touch the name to check.

Delete Phonebook	¢		÷
Name1	2	All	-
Name2			
Name3	× [^
Name4		Delete	-
Name5		A-Z	×
Mama			

[🗹 AII]

Checks all boxes.

[
 All]
 Frases all check marks.

5 Touch [Delete].

Confirmation message appears.

6 Touch [OK].

Hands-Free Setup

You can perform various setup about handsfree function.

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [SETUP].



SETUP Menu screen appears.

3 Touch [Bluetooth].



Bluetooth SETUP screen appears.

4 Touch [TEL SETUP].



TEL SETUP screen appears.

5 Set each item as follows.



Bluetooth HF/Audio

Select the speakers to output the sound from cell-phone (such as phone call voice and ringing tone) and Bluetooth audio player. Front: Outputs from the front speakers. All (Default): Outputs from all speakers.

Auto Response*

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

- OFF (Default): Automatic response is not available.
- 1/ 5/ 10/ 15/ 20/ 25/ 30: Set calling ring time (second).

Auto Pairing

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

ON (Default): Uses Apple Auto Pairing function.

OFF: Not uses Apple Auto Pairing function.

Sort Order

Sets how to arrange the cell-phone phonebook.

First: Arranges in the order of first name.

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

Echo Cancel Level

Adjusts the level of echo cancellation. Default is "0".

Noise Reduction Level

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

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

6 Touch [OK].



Setting Up

Monitor Screen Setup

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

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [Screen Adjustment].



Screen Control screen appears.

3 Adjust each item as follows.



Backlight / Contrast / Black / Brightness / Color / Tint

Adjusts each item.

Aspect

Select screen mode.

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

Normal: Displays with 4:3 ratio.

Auto:

DVD, VCD and disc media: Video of 16:9 ratio is displayed in Full and video of 4:3 ratio is displayed in Regular.

USB device and SD card: Displays video fully on vertical or horizontal with no ratio change.

NOTE

- Adjusting items are different depending on the current source.
- The image quality can be set for each source. Backlight and Black are common to all sources.

Monitor Angle Control DNX8 DNX7

You can adjust the position of the monitor.

1 Press the <≜> button.

Angle Adjust screen appears.

2 Select a below number that represents your desired angle setting.

Default is "0".



Off Position

You can store the current monitor angle as the angle during power off. Touch [Memory] when the desired angle is selected.

View Camera Control

You can select the front or rear view camera.

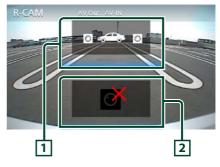
1 Press the DNXC/D <MENU> button for 1second/ DNXC/D volume knob for 1second.





View camera screen appears.

2 Adjust each item as follows.



1 Switching the View Camera

Touching each time changes between the front view camera and rear view camera.

2 Camera off

Touch to exit the camera screen.

System Setup

NOTE

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

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [SETUP].





SETUP Menu screen appears. See the following section for each setting.

- Set up the user interface (P.80)
- Set up special (P.82)
- Set up security (P.83)
- Set up display (P.84)
- Set up camera (P.86)
- Set up navigation (P.88)
- Set up AV (P.88)

User Interface Setup

You can setup user interface parameters.

1 Press the DIXEOTO <MENU> button/ DIXEOTO volume knob.

Popup menu appears.

2 Touch [SETUP].



SETUP Menu screen appears.

3 Touch [User Interface].



User Interface screen appears.

4 Set each item as follows.



Steering Remote Controller (DNX7160BTS, DNX5160BTS)

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

Beep

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

Parking Assist Display

When an ADS adapter is connected, you can display information about obstacles around the car.

ON: Always displays information.

Dyn.: Displays information when the sensor detects obstacles.

OFF (Default): Cancels.

This can be set when the iDataLink (commercially available) is connected.

Parking Assist Position

Select where information about obstacles is displayed on the screen (left or right). "Left" (Default)/ "Right"

This can be set when the iDataLink (commercially available) is connected.

Language Select Mode

Selects the mode to select a language.

Easy (Default): Selects a language easily.

Advanced: Allows you to select languages for respective items.*

Language Select

Selects a language.

Touch Panel Adjust (DNX7 / DNX6/5))

Adjust the sensing position of touch panel. **(P.82)**

Clock

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

Manual: Sets the clock manually

Time Zone

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

Clock Adjust

If you select [Manual] for Clock, adjust the date and time manually. (P.82)

* If you select [Advanced] for Language Select Mode, the following screen appears.



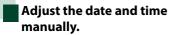
GUI Language Select

Selects the display language used for the control screen and so forth.

Navigation Language Select

Selects the language used for navigation.

Setting Up



1 Touch [Clock Adjust] in the User Interface screen.

Clock Adjust screen appears.

2 Adjust the date, then adjust the time.



3 Touch [Set].

Touch panel adjustment (DNX7)/DNX6/5)

1 Touch [Touch Panel Adjust] in the User Interface screen.

Touch Panel Adjust screen appears.

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



NOTE

- To cancel the touch panel adjustment, touch [Cancel].
- To reset to the initial status, touch [Reset].

Special Setup

You can setup Special parameters.

1 Press the DIXEOT <MENU> button/ DIXEOT volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [Special].



Special screen appears.

4 Set each item as follows.



DEMO

Set the demonstration mode. Default is "ON".

SETUP Memory

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

Audio SETUP Memory

Memorizes the current audio setting.

 Speaker / X'over, Equalizer, Position/DTA, Sound Effect (P.90)

Audio SETUP Recall

Recalls the memorized audio setting.

Audio SETUP Clear

Clears the AUDIO SETUP Memory and the currently memorized audio setting.

Software Information

Check the software version of this unit. (P.83)

Open Source Licenses

Displays the open source licenses.

Initialize

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

Audio SETUP Memory is not initialized.

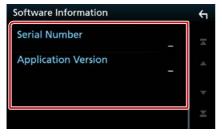
Software Information

Check the software version of this unit.

1 Touch [Software Information] in the Special screen.

Software Information screen appears.

2 Confirm the software version.



NOTE

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

Security Setup

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

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [Security].



Security screen appears.

4 Set each item as follows.



SI

A red indicator will blink on the unit after the ACC is set to OFF, warning potential thieves. If turned to "ON" (default), the security indicator on the front panel flashes when the vehicle ignition is off.

Security Code Set *1

Register the security code for the unit.

Security Code Cancellation *1

Clear the security code.

Security Code Change *1

Change the security code.

*1 DNX7160BTS/ DNX5160BTS only

Security Code

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

1 Touch [Security Code Set] on the Security screen.

Security Code Set screen appears.

2 Enter a security code with four-digit number and touch [Enter].



3 Enter the same code again and touch [Enter].

Now, your security code is registered.

NOTE

- Touch [BS] to delete the last entry.
- If you enter a different security code, the screen returns to step 4 (for the first code entry).
- if you have disconnected the Receiver from battery, enter the correct security code as that you have entered in step 4 and touch [Enter]. You can use your receiver.

To change the security code:

 Touch [Security Code Change] on the Security screen, then repeat step 2 and 3.

To clear the security code:

1 Touch [Security Code Cancellation] on the Security screen.

Display Setup

1 Press the DNX(3)(1) <MENU> button/ DNX(3)(5) volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [Display].



Display screen appears.

4 Set each item as follows.



Dimmer

Select dimmer mode.

OFF: The display and buttons do not dim.

ON: The display and buttons dim.

- SYNC (Default): Turns the dimmer function on or off when the vehicle light control switch is turned on or off.
- NAV-SYNC: Turns the dimmer function on or off according to the Navigation Day/Night display setting.

OSD Clock

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

Panel Color

You can set the screen and button illumination color. (P.85)

Background

Changing background image. (P.85)

Panel color coordinate

You can set the screen and button illumination color.

The selectable items differ depending on the unit.

1 Touch [Panel Color] in the Display screen.

Panel Color Coordinate screen appears.

2 Touch the desired color.



User

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

Scan

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



Registering original color

You can register your original color.

1 Touch [User] in the Panel Color Coordinate screen.

2 Touch [Adjust].

Panel Color RGB Coordinate screen appears.

3 Use [-] and [+] to adjust each color value.

ne	el Co	olo	or	RG	iB	Co	or	din	ate				
R	ed ۷	alu	e	. 11		G	reer	ı Va	ue		Blue V	alu	ie
	3	1	E	÷		-		31	+	-	31		÷



Changing background image

1 Touch [Background] in the Display screen.

Background screen appears.

2 Select an image.



NOTE

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

Setting Up

Registering original image

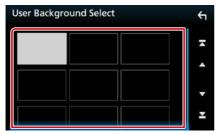
You can load an image from the connected USB device and set it for the background image.

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

1 Touch [User1 Select] or [User2 Select] in the Background screen.

User Background File Select screen appears.

2 Select the image to load.



3 Touch [Enter].



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

NOTE

- Touching [
 [
] rotates counter clockwise.
- Touching [] rotates clockwise.

NOTE

 See <u>Playable Media and Files (P.110)</u> for readable image specifications.

Camera Setup

You can set camera parameters.

 Press the DNXCID <MENU> button/

 DNXCID volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [Camera].



Camera screen appears.

4 Set each item as follows.



R-CAM Interruption

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

Parking Guidelines

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

Guideline Setup

If you select [ON] for Parking Guidelines, adjust the parking guidelines. See <u>Adjusting the</u> <u>parking guidelines (P.87)</u>.

Front Camera

- **On**: Activates the front view camera. Select this to use the front view camera.
- **OFF (Default)**: Select this when no camera is connected.

Front Camera Mirror Image

- If you select [ON] for Front Camera.
- **On**: Displays the picture from the front view camera horizontally reversed.
- **OFF (Default)**: Displays the picture from the front view camera as it is.

Adjusting the parking guidelines

- 1 Touch [ON] of [Parking Guidelines] in the Camera screen.
- 2 Touch [Guideline Setup] in the Camera screen.
- 3 Adjust the parking guidelines by selecting the the mark.



4 Adjusting the position of the selected mark.



Make sure that ($\widehat{\mathbb{B}}$ and ($\widehat{\mathbb{B}}$ are horizontally parallel, and that ($\widehat{\mathbb{C}}$ and ($\widehat{\mathbb{D}}$ are the same length.

NOTE

 Touch [Initialize] and after touch [Yes] to set all the marks to the initial default position.

Navigation Setup

You can set navigation parameters.

1 Press the DNX(3/12) <MENU> button/ DNX(3/5) volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [Navigation].



Navigation SETUP screen appears.

4 Set each item as follows.



NAV Voice Volume

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

AV Setup

You can set AV parameters.

 Press the DNXCID <MENU> button/

 DNXCID volume knob.

Popup menu appears.

2 Touch [SETUP].

SETUP Menu screen appears.

3 Touch [AV].



AV screen appears.

4 Set each item as follows.



APP/iPod SETUP

Set up APP/iPod connection. See **APP/iPod** settings (P.31).

TV Tuner Control (DNX7160BTS/ DNX5160BTS)

Sets when connecting the TV tuner to AV INPUT.

- **ON:** Set to ON when connecting the 3rd party TV tuner. AV-IN1 Name is set to TV. If you connect the TV tuner made by DOS and watch TV, you can perform some simple operations by touching the screen of this unit.
- **OFF (Default):** Set to OFF when not connecting the 3rd party TV tuner.

AV-OUT

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

OFF, AV-IN, AV-IN1, AV-IN2, DISC, USB, SD, or iPod

- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, SD, iPod, Disc, Mirroring, Bluetooth audio, Apple CarPlay or Android Auto as the main source, you cannot select USB, SD or iPod as the AV output source.

Automotive Mirroring

Select "ON" to use Apple CarPlay or Android Auto.

"ON" (Default)/ "OFF"

CarPlay Sidebar

Select the position of the control bar (left or right) shown on the touch panel. "Left" (Default)/ "Right"

OEM SETUP

Confirm the information about/ change the settings for using the ADS adapter.

Controlling Audio

NOTE

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

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

1 Press the DINX(3)(7) <MENU> button/ DINX(3)(5) volume knob.

Popup menu appears.

2 Touch [Audio].



Audio screen appears. See the following section for each setting.

- Set up speakers (P.90)
- Controlling audio (P.93)
- Controlling equalizer (P.94)
- Performing zone control (P.96)
- Set sound effect (P.97)
- Set volume offset (P.95)
- Set listening position (P.98)

Speaker/ X'over setup

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [Audio].



Audio screen appears.

3 Touch [Speaker/X'over].



Speaker Select screen appears.

4 Touch the speaker you wish to adjust and set each item as follows.

Speaker Select		ξ
	Car Typ)e
	Compa	ct
🔺 i i i i i i i i i i i i i i i i i i i	Speak	er
	4 Inch	
	Locatio	on
	Door	
	Tweeter	
* *	Middle	X'over

Car Type

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

Speaker

You can select a speaker type and its size to get the best sound effects.

When the speaker type and size are set, the speaker crossover network is set automatically.

Location (Only for Front, Rear)

Select the speaker position you have fixed.

Tweeter (Only for Front)

You can set the tweeter when you are selecting front speakers. None, Small, Middle, Large

X'over

Displays the speaker crossover setup screen. You can adjust the crossover setup that was set automatically when you selected the speaker type.

For details, see Crossover network setup (P.92)

5 Select an item.

Car Type

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

 If your car type is selected, the Delay Time Alignment is set automatically (for timing adjustment of sound output for each channel) to have the highest surround effects.

Speaker

Front

OEM, 3-1/2 inch, 4 inch, 4-3/4 inch, 5 inch, 6-1/2 inch, 6-3/4 inch, 7 inch, 4x6, 5x7, 6x8, 6x9, 7x10

Rear

None, OEM, 3-1/2 inch, 4 inch, 4-3/4 inch, 5 inch, 6-1/2 inch, 6-3/4 inch, 7 inch, 4x6, 5x7, 6x8, 6x9, 7x10

Subwoofer

None, 6 1/2 inch, 8 inch, 10 inch, 12 inch, 15 inch over

• Select "None" if you have no speakers.

Location

Front

Select the location from "Upper Door Area"/ "Lower Door Area"/ "On Dash"/ "Under Dash".

Rear

Select the location from "Upper Door Area"/ "Lower Door Area"/ "Upper Cargo Area"*1/ "Lower Cargo Area"*1/ "Upper 3rd Row Area"*2/ "Lower 3rd Row Area"*2/ "Parcel Shelf Area"*3

- *1 "Compact"/ "Wagon"/ "SUV"
- *2 "Minivan"/ "Minivan (Long)"
- *3 "OFF"/ "Full Size Car"

Cro

Crossover network setup

You can set a crossover frequency of speakers.

1 Touch [X'over].

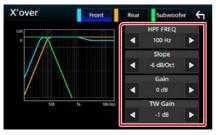


X'over screen appears.

2 Touch the speaker to set.



3 Set each item as follows.



HPF FREQ

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

LPF FREQ

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

Slope*³

Sets a crossover slope.

Gain

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

TW (Tweeter) Gain *1

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

Phase Inversion*2

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

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

Controlling General Audio

1 Press the DNX(3)(1) <MENU> button/ DNX(3)(5) volume knob.

Popup menu appears.

2 Touch [Audio].



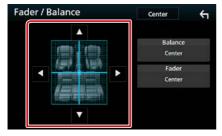
Audio screen appears.

3 Touch [Fader / Balance].



Fader / Balance screen appears.

4 Set each item as follows.



Fader / Balance

Adjust the volume balance around the touched area.

 $[\blacktriangleleft]$ and $[\blacktriangleright]$ adjust the right and left volume balance.

 $[\blacktriangle]$ and $[\blacktriangledown]$ adjust the front and rear volume balance.

Equalizer Control

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

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [Audio].



Audio screen appears.

3 Touch [Equalizer].



Equalizer screen appears.

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



Gain level (light green boxed area)

Adjust the gain level by touching the each frequency bar.

You can select frequency bar and adjust its level by $[\blacktriangle], [\blacktriangledown]$.

Preset Select

Displays the screen to recall the preset equalizer curve.

Memory

Saves the adjusted equalizer curve to "User1" to "User4".

Initialize

```
The current EQ curve returns to flat.
```

ALL SRC

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

Bass EXT (Bass Extend Settings)

When turned on, the frequency lower than 62.5 Hz is set to the same gain level as 62.5 Hz.

SW Level

Adjusts the subwoofer volume. This setting is not available when subwoofer is set to "None". See **Speaker/X'over setup (P.90)**.



1 Touch [Preset Select].

2 Select EQ curve.



NOTE

• [iPod] is available only during iPod source.

Save the EQ curve

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

(Procet Storage		
	User1	٠	
	User2		
	User3		-
62.5	User4		1215
	Close		

Volume Offset

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

1 Press the DNX(3)(1) <MENU> button/ DNX(3)(5) volume knob.

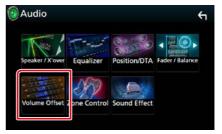
Popup menu appears.

2 Touch [Audio].



Audio screen appears.

3 Touch [Volume Offset].



Volume Offset screen appears.

4 Touch [+] or [-] to adjust the level.



Initialize

Returns to the initial settings.

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

Zone Control

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

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

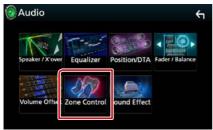
Popup menu appears.

2 Touch [Audio].



Audio screen appears.

3 Touch [Zone Control].



Zone Control screen appears.

4 Touch [Zone Select].

5 Touch [Dual Zone].



6 Set each source as follows.

Zone Control		÷
Zone Select	Dual Zone	×
Front Source	Radio	•
Rear Source	USB	-
Rear VOL .	20	Ŧ

[Zone Select]

Touch [Single Zone] to turn off the dual zone function.

[Front Source] [Rear Source]

Select the audio source for each.

[Rear VOL.]

Adjusts the rear channel volume.

NOTE

- When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.
- When the dual zone function is set to on, the following functions are not available.
 - -Output from the subwoofer
 - Subwoofer Level/ Bass Boost (P.97)
 - Equalizer Control/ Sound Effect/ Listening Position (**P.94, 97, 98**)
 - Speaker Setup (P. 90)
- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, SD, iPod, Disc, Mirroring, Bluetooth audio, Apple CarPlay or Android Auto as the Front Source, you cannot select USB, SD or iPod as the Rear Source.

Sound Effect

You can set sound effects.

1 Press the DNXCID <MENU> button/ DNXCID volume knob.

Popup menu appears.

2 Touch [Audio].



Audio screen appears.

3 Touch [Sound Effect].



Sound Effect screen appears.

4 Set each item as follows.



Bass Boost

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

Loudness

Sets the amounts of boost of low and high tones.

"OFF", "Low", "High"

Drive Equalizer+

The sound quality is automatically optimized to meet the current car speed by GPS. "OFF". "ON"

Space Enhancer

Select the feeling of sound space enhancement.

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

• This setting is not available during HD Radio tuner source.

Supreme

Turns ON/OFF the Supreme function. Technology to extrapolate and supplement with proprietary algorithm, the high-frequency range that is cut off when encoding.

Realizer

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

Stage EQ

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

Controlling Audio

Listening Position/DTA

You can adjust the sound effects according to your listening position.

1 Press the DNXCID <MENU> button/ DNX6/5 volume knob.

Popup menu appears.

2 Touch [Audio].



Audio screen appears.

3 Touch [Position/DTA].



- Set up Listening Position (P.98)
- Set up Front Focus (P.100)



Listening Position

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

- **1** Touch [Listening Position] in the Position/DTA screen.
- 2 Select listening position from [Front R] (Right front), [Front L] (Left front), [Front All] (All front), and [All].

Listening Position	Front Focus
Front L	Front R
Front All	
	Adjus

Position DTA control

You can fine-adjust your listening position.

- 1 Touch [Adjust].
- 2 Touch [Delay].
- 3 Touch [◀] or [▶] to adjust the delay time of the selected speaker.



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



NOTE

• To return to the initial setting of Delay and Level, touch [Initialize] and [YES] in the confirmation screen.

Controlling Audio

Front Focus

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

1 Touch [Front Focus] in the Position/DTA screen.

2 Select a front focus position.

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



Front Focus fine adjustment

- 1 Touch [Adjust].
- **2** Touch [Delay].
- **3** Set each item as follows.



Sound Image LR (Front)

Adjust the sound image to focus on in front of front seats.

Sound Image LR (Rear)

Adjust the sound image to focus on in front of rear seats.

Size of the Virtual Sound Field

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

Subwoofer Delay

Adjust the delay time of subwoofer.

4 Touch [Level].

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



NOTE

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

Remote control

This unit can be operated using the remote control.

For DNX7160BTS, and DNX5160BTS, the remote control is supplied with the unit.

For DNX893S, DNX773S, DNX693S, and DNX573S the remote control is the optional accessory (KNA-RCDV331).

ACAUTION

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

Battery Installation

If the remote control operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted.

In such instances, replace the both batteries with new ones.

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

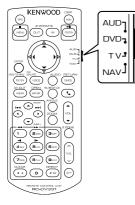


Functions of the Remote control Buttons



Switching the operation mode

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



AUD mode

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

DVD mode

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

NAV mode

Switch to this mode when controlling navigation function.

TV mode

Not used.

NOTE

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

Direct search mode

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

NOTE

This operation cannot be performed for USB device and iPod.

1 Press the <#BS> button several times until the desired content appears.

The available contents are different depending on the source.

DVD

Title number/Chapter number

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

VCD 2.X (PBC ON)

Scene number/Track number

- Music CD
- Track number

Radio

Frequency value

HD Radio tuner

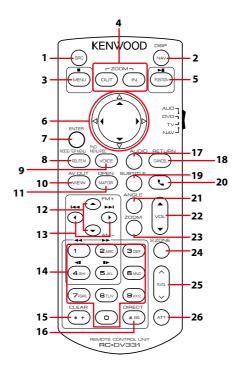
Frequency value/Channel number

SiriusXM

Channel number

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

3 For DVD or VCD, music CD, press the <ENTER> button. For radio, press the <◄> or <►> button. The content you entered is played.



	Key Name	Location of the mode switch	Function
1	SRC	AUD	Switches to the source to be played. In hands-free mode, hangs up the phone.
2	NAV	-	Switches between the navigation and the source screens.
3	3 MENU DVD		Stops playing and memorizes the last point where the disc stopped. The last point is deleted by pressing twice.
		NAV	Displays Main menu.
4	OUT, IN	NAV	Zooms in or out the navigation map.
5	POSITION	AUD, DVD	Pauses the track or file, and resumes playing by pressing twice. During radio, HD Radio, and SiriusXM source in AUD mode, switches the seek mode.
		NAV	Displays the current position.
6	6 Cursor Key DVD Moves the cursor in		Moves the cursor in the DVD menu.
		NAV	Moves the cursor or scrolls the map.
7	ENTER	AUD, DVD	Performs the selected function.
		NAV	Registers the selected position.
			Performs the selected function.
8	ROUTE M	AUD	Screen mode changes each time you press this key during video playback.
		DVD	Returns to the DVD top menu.
		NAV	Displays Route Option menu.

	Key Name	Location of the mode switch	Function
9	VOICE	DVD	Displays the DVD menu. Turns the playback control on or off while playing VCD.
		NAV	Speaks the voice guidance.
10	VIEW	AUD, DVD	Switches the AV source to be output.
		NAV	Switches between 2D and 3D map displays.
11	MAP DIR	AUD, DVD	DNX3 DNX7 Switches the display angle each time it is pressed.
		NAV	Switches between the heading up navigation and north up navigation map displays.
12	▲/▼	AUD, DVD	Selects the folder to be played. During radio and HD Radio source in AUD mode, select FM/ AM band to be received. During SiriusXM source in AUD mode, switches the bands to be received.
13	►</td <td>AUD, DVD</td> <td>Selects the track or file to be played. During radio, HD Radio, and SiriusXM source in AUD mode, switches to broadcast stations received by the unit.</td>	AUD, DVD	Selects the track or file to be played. During radio, HD Radio, and SiriusXM source in AUD mode, switches to broadcast stations received by the unit.
14	Numeric Keypad	AUD	Specifies the number to search in direct search. For details on the direct search mode, see <i>Direct search mode</i> (<i>P</i> .103).
		DVD	 Press [1] [2] to fast forward/backward. Press [4] [5] to slow forward/backward. Switches the slow playback speed each time you press this key.* *DVD only
15	* +	DVD	Clears the number.
16	# BS	AUD, DVD	Switches to the direct search mode. For details on the direct search mode, see <u>Direct search mode</u> (P.103).
17	AUDIO	DVD	Switches the voice language each time you press this key.
18	CANCEL	DVD	Displays previous screen.
		NAV	Cancels the operations.
19	SUBTITLE	DVD	Switches the subtitle language.
20	ور	_	When a call comes in, answers the call.
21	ANGLE	DVD	Switches the picture angle each time you press this key.
22	Vol ▲▼	-	Adjusts the volume.
23	ZOOM	DVD	Switches the zoom ratio (2, 3, 4, Off) each time you press this key.
24	2 ZONE	AUD, DVD	Switches the Dual Zone function on and off.
25	R.VOL	-	Adjusts volume at rear when the Dual Zone function is on.
26	ATT	-	Lowers the volume by pressing the key once. Restores the previous volume by pressing the key twice.

Troubleshooting

Problems and Solutions

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

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

About settings

Problem	Reason	Solution
Cannot set up the subwoofer.Cannot set up subwoofer phase.	Subwoofer is not set to on.	Set the subwoofer to on. See Speaker/X'over setup (P.90) .
No output from the subwoofer.Cannot set up the low pass filter.Cannot set up the high pass filter.	The dual zone function is enabled.	Set the dual zone function to off. See Zone Control (P.96) .
 Cannot select the output destination of the subsource in the dual zone. Cannot adjust the volume of the rear speakers. 	The dual zone function is disabled.	Set the dual zone function to on. See Zone Control (P.96) .
 Cannot set up the equalizer. Cannot set up the crossover network. 	The dual zone function is enabled.	Set the dual zone function to off. See <u>Zone Control (P.96)</u> .

About audio operations

Problem	Reason	Solution
Radio reception is poor.	The car antenna is not extended.	Pull out the antenna all the way.
	The antenna control wire is not connected.	Connect the wire correctly. See "Connection" in the Quick Start Guide.
Cannot select a folder.	The random play function is enabled.	Turn off the random function.
Cannot perform repeat play during VCD playback.	The PBC function is enabled.	Turn off the PBC function.
The specified disc does not play, but another one plays instead.	The disc is quite dirty.	Clean the disc. See Precautions on handling discs (P.4).
	The disc is severely scratched.	Try another disc instead.
The sound skips when an audio file is being played.	The disc is scratched or dirty.	Clean the disc. See Precautions on handling discs (P.4).
	The recording condition is bad.	Record the file again or use another disc.



Problem	Reason	Solution
The Touch Sensor Tone doesn't sound.		The Touch Sensor Tone cannot be output from the preout jack.

Error Messages

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

Error Message	Cause	Solution
here is an error in the speaker wiring. Please check the connections.	Protective circuit has been activated because a speaker cord has shorted or it has come in contact with the car chassis.	Wire or insulate the speaker cord as appropriate and turn the power off and on again.
Hot Error	When the internal temperature of this unit rises to 60°C or more, the protection circuit is activated and you may not be able to operate the unit.	Use the unit again after reducing the temperature of the unit.
Mecha Error	The disc player is malfunctioning.	Eject the disc and try inserting it again. Contact the KENWOOD dealer if this indicator continues blinking or the disc cannot be ejected.
Disc Error	An unplayable disc is inserted.	Change the disc. See Playable Media and Files (P.110) .
Read Error	The disc is quite dirty.	Clean the disc. See Precautions on handling discs (P.4) .
	Disc is upside down.	Load the disc with the labeled side up.
Region Code Error	The disc you wanted to play has a region code that cannot be played with this unit.	See <u>Region Codes in the World (P.116)</u> or try another disc.
Error 07–67	The unit is not operating correctly due to some reason or other.	Turn the power off and on again. If the "Error 07–67" message does not disappear, see your nearest KENWOOD dealer.
No Device (USB device)	The USB device is selected as a source although no USB device is connected.	Change the source to any source other than USB/iPod. Connect a USB device, and change the source to USB again.
Disconnected (iPod, Bluetooth audio player)	The iPod/Bluetooth audio player is selected as a source although no iPod/Bluetooth audio player is connected.	Change the source to any source other than iPod/Bluetooth. Connect an iPod/Bluetooth audio player, and change the source to iPod/ Bluetooth again.
No Media file	The connected USB device contains no playable audio file. Media was played that doesn't have data recorded that the unit can play.	See Playable Media and Files (P.110) and try another USB device.

Troubleshooting

Error Message	Cause	Solution
USB device over current	The connected USB device is rated a current capacity higher than the	Check the USB device. Some trouble may have occurred to the connected USB device.
status detected.	allowable limit.	Change the source to any source other than USB. Remove the USB device.
Navigation Error. Please turn on power again later.	The communication error has occurred due to severely cold temperature.	Turn on power again after warming your car interior.

SiriusXM

Problem	Reason	Solution
Check Tuner	A SiriusXM tuner is not connected to this unit.	Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.
Subscription Updated - Press Return To Continue	The SiriusXM subscription has been renewed.	Pressing the Control knob will clear the message.
SXM Chan Unavailable	The currently selected channel is unavailable.	_
SXM Ch Unsubscribed	The currently selected channel is not subscribed to.	_
SXM Check Antenna	No antenna is connected to the SiriusXM tuner.	Check that an antenna is connected to the SiriusXM tuner. Check antenna for damages.
SXM No Signal	No SiriusXM radio signal is received.	Verify that your vehicle is outdoors with a clear view of the sky.
Channel Locked	The selected channel has been locked by the parental controls.	Enter the unlock code when you are asked. See Parental Control (P.64) .
Incorrect Pass Code entered	The selected channel is a mature or parental lock channel, and locked by the parental lock or user lock code.	Enter the correct lock code.

Troubleshooting

Playable Media and Files

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

List of playable discs

Disc types	Standard	Support	Remark
DVD	DVD Video	0	
	DVD Audio	×	
	DVD-VR	×	
	DVD-R*1	0	 MP3/WMA/ AAC/WAV/ FLAC/ Vorbis/ MPEG1/ MPEG2/ MPEG4/ H.264/WMV/ MKV playback Multi-border/Multisession playback (Playback depends on authoring conditions)
	DVD-RW	0	
	DVD+R	0	
	DVD+RW	0	
	DVD-R DL (Dual layer)	0	Only video format
	DVD+R DL (Double layer)	0	
	DVD-RAM	×	
CD	Music CD*1	0	
	CD-ROM	0	• MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis playback
	CD-R	0	Multisession is supported.
	CD-RW	0	Packet write is not supported.
	DTS-CD	×	
	Video CD (VCD)	0	
	Super video CD	×	
	Photo CD	×	
	CD-EXTRA	Δ	Only music CD session can be played.
	HDCD	0	
	CCCD	×	
Others	Dualdisc	×	
	Super audio CD	Δ	Only CD layer can be played.

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

O: Playback is possible.

 \triangle : Playback is partly possible.

 \times : Playback is impossible.

■ Use of DualDisc

When playing a "DualDisc" on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible. (A "DualDisc" is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

About disc format

The disc format should be the one of the following.

- ISO 9660 Level 1/2
- Joliet

Romeo
 Long file name

About files

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

Playable Audio files

	Bit rate	Sampling frequency	Bit count
AAC-LC (.m4a)	8 – 320kbps, VBR	16 – 48 kHz	16 bit
MP3 (.mp3)	8 – 320kbps, VBR	16 – 48 kHz	16 bit
WMA (.wma)	8 – 320kbps	16 – 48 kHz	16 bit
Linear PCM (WAVE) (.wav)		16 – 48 kHz (Disc),	16/ 24 bit
	_	16 – 192 kHz (USB/ SD)	
FLAC (.flac)		16 – 48 kHz (Disc),	16/ 24 bit
	-	16 – 192 kHz (USB/ SD)	
Vorbis (.ogg)	VBR	16 – 48 kHz	16 bit

NOTE

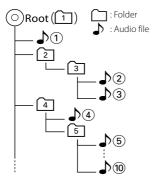
- If music of normal CD and other playback systems are recorded in the same disc, only the playback system recorded at the first setout is played.
- WMA and AAC of which is covered with DRM cannot be played.
- Although the audio files are complied with the standards listed above, the play may be impossible depending on the types or conditions of media or device.
- An online manual about audio files is put on the site, <u>www.kenwood.com/cs/ce/audiofile/.</u>
 On this online manual, detailed information and notes which are not written in this manual are provided. Make sure to read through the online manual as well.

Acceptable Video files

	Profile	Max. Picture size	Max. bit rate	Audio format
MPEG-1 (.mpg, .mpeg)	-	352 × 240, 352 × 288	1.5 Mbps	MPEG Audio Layer 2
MPEG-2 (.mpg, .mpeg)	MP@ML	720 × 480, 720 × 576	8M bps	MPEG Audio Layer 2
H.264/MPEG-4 AVC (.mp4, .m4v, .avi, .flv, .f4v)	Baseline Profile, Main Profile	1280 × 720 (30 fps)	8M bps	МРЗ, ААС
MPEG-4 (.mp4, .avi)	Advanced Simple Profile	1920 × 1080 (30 fps)	8M bps	MP3, AAC
WMV (.wmv)	Main Profile	1920 × 1080 (30 fps)	8M bps	WMA
MKV (.mkv)	Video Format follows H.264/MPEG-4 AVC, MPEG-4, WMV MP3, AAC, WMA, Vorbis, FLAC			

Playing order of files

In the example of folder/file tree shown below, the files are played in the order from to .



Connectable iPod/iPhone

The following models can be connected to this unit.

Made for

- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPhone 4s
- iPod touch (6th generation)
- iPod touch (5th generation)

NOTE

- For the details of the necessary cable and adapter to connect with iPod/iPhone, refer to <u>Music/</u> Video Basic Operation (P.32).
- Latest compatible list of iPod/iPhone. For details, see www.kenwood.com/cs/ce/ipod/.
- By connecting your iPod/iPhone to this unit with an optional accessory iPod connection cable KCA-iP103 or KCA-iP102, you can supply power to your iPod/iPhone as well as charge it while playing music. However, the power of this unit must be on.
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.

In this case, "Reading" is displayed without displaying a folder name, etc. Changing the browse item will display a correct title, etc.

 When the iPod is connected to this unit, "KENWOOD" or "✓" is displayed on the iPod to indicate that you cannot operate the iPod.

Usable USB device

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

The word "USB device" appearing in this manual indicates a flash memory device and digital audio players can be recognized as mass-storage.

About file system

The file system should be the one of the following.

- FAT16
- FAT32
- exFAT
- NTFS

NOTE

- When the USB device is connected to this unit, it can be charged through the USB cable.
- Install the USB device in the place where it will not affect safe driving.
- You cannot connect a USB device via a USB hub and Multi Card Reader.
- Take backups of the audio files used with this unit. The files can be erased depending on the operating conditions of the USB device.
 We shall have no compensation for any damage arising from any erased data.
- No USB device comes with this unit. You need to purchase a commercially available USB device.
- When connecting the USB device, usage of the CA-U1EX (option) is recommended. (However, maximum supply current of CA-U1EX is 500mA.) Normal playback is not guaranteed when a cable other than the USB compatible cable is used.

Usable SD card DNX(3)7) and microSD card DNX(5)5).

The unit is capable of playback of SD/ SDHC memory cards DXCOD or microSD/ microSDHC memory cards DXCOD complying with the SD or SDHC standard. A special adapter is required to use a miniSD card, miniSDHC card, microSD card, or microSDHC card.

The MultiMedia Card (MMC) cannot be used.

Status Bar Indicator Items

Shown below is a list of indicators displayed on the status bar in the screen. Current status of this unit is displayed on the bar.



General

ATT

The attenuator is active.

DUAL

The dual zone function is on.

MUTE

The mute function is active.

LOUD

The loudness control function is on.

DVD/CD

IN

A disc is inserted.

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

VIDEO

Identifies the video file.

MUSIC

Identifies the music file.

VCD

1chLL/2chLL

Identifies the left audio output of channel 1 or 2.

1chLR/2chLR

Identifies the monaural audio output of channel 1 or 2.

1chRR/2chRR

Identifies the right audio output of channel 1 or 2.

1chST/2chST

Identifies the stereo audio output of channel 1 or 2.

LL

Identifies the left audio output.

LR

Identifies the monaural audio output.

RR

Identifies the right audio output.

ST

Identifies the stereo audio output.

PBC

The PBC function is on.

VER1

The VCD version is 1.

VER2

The VCD version is 2.

USB/SD

VIDEO

Identifies the video file.

MUSIC

Identifies the music file.

■ iPod

MUSIC

Identifies the music file.

Tuner

ST

A stereo broadcast is being received.

ТΙ

Indicates the reception state of traffic information.

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

■ HD Radio reception

MC

A multicast digital broadcast is being received.

ANALOG

An analog broadcast is being received.

DIGITAL

A digital broadcast is being received.

ST

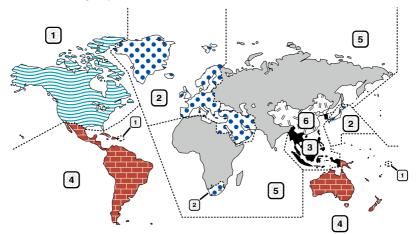
A stereo broadcast is being received.

EA

- White: Emergency Alert is on.
- No light: Emergency Alert is off.
- Orange: Interrupting or in snooze/ignore state.

Region Codes in the World

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



DVD disc marks



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



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



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



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



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

Operation regulatory marks

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



Discs with limited period of use

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

DVD Language Codes

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

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

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

Specifications

Monitor section

Picture Size

DNX893S, DNX773S, DNX7160BTS : 6.95 inches (diagonal) wide : 156.6 mm (W) × 81.6 mm (H) 6-3/16 × 3-3/16 inch DNX693S, DNX573S, DNX5160BTS : 6.2 inches (diagonal) wide :137.5 mm (W) × 77.2 mm (H) 5-7/16 × 3-1/16 inch

Display System

: Transparent TN LCD panel

Drive System

: TFT active matrix system

Number of Pixels

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

Effective Pixels

:99.99%

Pixel Arrangement

: RGB striped arrangement

Back Lighting

: LED

DVD player section

D/A Converter

: 24/ 32 bit

Audio Decoder

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

Video Decoder

: MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ mkv

Wow & Flutter

: Below Measurable Limit

Frequency Response

- 96 kHz : 20 44,000 Hz
- 48 kHz : 20 22.000 Hz
- 44.1 kHz : 20 20.000 Hz

Total Harmonic Distortion : 0.010 % (1 kHz)

S/N Ratio (dB)

: 98 dB (DVD-Video 96 kHz)

Dynamic Range

: 98 dB (DVD-Video 96 kHz)

Disc Format

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

Quantifying Bit Number

: 16/ 20/ 24 bit

USB interface section

USB Standard

: USB 2.0 High Speed

File System

: FAT 16/ 32, NTFS

Maximum Power Supply Current

DNX893S, DNX693S, DNX7160BTS : DC 5 V ... 1.5 A × 2 DNX773S, DNX573S, DNX5160BTS : DC 5 V 1.5 A

D/A Converter

: 24/ 32 bit

Audio Decoder

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

Video Decoder

: MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ mkv

SD (DNX893S, DNX773S, DNX693S, DNX573S)

SD Standard

: SD / SDHC

Compatible File System : FAT 16/ 32, NTFS

Capacity

: Maximum 32G Byte

Data Transfer Rate

: Maximum 24 Mbps

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

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

HDMI/ MHL section

HDMI

: HDMI Type-A

MHL Supported Version

: MHL 2

MHL Maximum Power Supply Current

: DC 5 V 900 mA

Bluetooth section

Technology

: Bluetooth Ver.3.0

Frequency

: 2.402 – 2.480 GHz

Output Power

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

Maximum Communication range

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

Audio Codec

SBC/ AAC

Profile (Multi Profile support)

- HFP (V1.6) (Hands Free Profile)
- SPP (Serial Port Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (V1.5) (Audio/Video Remote Control Profile)
- HID (Human Interface Device Profile)
- PBAP (Phonebook Access Profile)
- GAP (Generic Access Profile)

DSP section

Graphics equalizer

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

Gain

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

2Way X'Over

High pass filter

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

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

Low pass filter

Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz, Through Slope: -6/-12/-18/-24 dB/Oct.

Position

Front / Rear /Subwoofer Delay

: 0 – 20.0ft (0.03ft Step) Gain : -8 – 0 dB

-8 – 0 dB

Subwoofer level

: -50 - +10 dB

Digital FM tuner section (DNX893S, DNX773S, DNX693S, DNX573S)

Frequency Range (step) : 87.9 MHz – 107.9 MHz (200 kHz)

Frequency Response (± 3.0 dB)

: 20 Hz – 20 kHz

S/N Ratio

: 80 dB (STEREO)

Digital AM tuner section (DNX893S, DNX773S, DNX693S, DNX573S)

Frequency Range (step) : 530 kHz – 1700 kHz (10 kHz)

Frequency Response (± 3.0 dB)

: 40 Hz – 15 kHz S/N Ratio (dB)

: 80 dB (STEREO)

FM tuner section

Frequency Range (step)

DNX893S, DNX773S, DNX693S, DNX573S : 87.9 MHz – 107.9 MHz (200 kHz) DNX7160BTS, DNX5160BTS : 87.5 MHz – 108.0 MHz (50 kHz)

Usable Sensitivity (S/N: 30 dB)

: 9.3 dBf (0.8 μV/ 75 Ω)

Quieting Sensitivity (S/N: 50 dB)

DNX893S, DNX773S, DNX693S, DNX573S : 10.2 dBf (1.13 μV/ 75 Ω) DNX7160BTS, DNX5160BTS : 15.2 dBf (1.6 μV/ 75 Ω)

Frequency Response

: 30 Hz – 15 kHz

S/N Ratio (dB)

: 75 dB (MONO)

Selectivity (± 400 kHz)

: Over 80 dB

Stereo Separation

: 45 dB (1 kHz)

AM tuner section

Frequency Range (step) : 530 kHz – 1700 kHz (10 kHz)

Usable Sensitivity

: 28 dBµ

Video section

Color System of External Video Input : NTSC/PAL

External Video Input Level (RCA jacks) DNX7160BTS, DNX5160BTS: 1 Vp-p/ 75 Ω

External Video Input Level (mini jack) : 1 Vp-p/ 75 Ω

 $\begin{array}{l} \mbox{External Audio Max Input Level (RCA jacks)} \\ \mbox{DNX7160BTS, DNX5160BTS: 2 V/ 25 k} \end{array}$

External Audio Max Input Level (mini jack) : 2 V/ 25 k Ω

Video Input Level (RCA jacks) : $1 \text{ Vp-p} / 75 \Omega$

Video Output Level (RCA jacks) : $1 \sqrt{p-p}/75 \Omega$

Audio Output Level (RCA jacks)

: 1.2 V/ 10 kΩ

Audio section

Maximum Power (Front & Rear) : $50 \text{ W} \times 4$

Typical Power Output (Front & Rear)

Full Bandwidth Power (at less than 1% THD) : 22 W \times 4

Preout Level (V) DNX893S, DNX693S, DNX7160BTS, DNX5160BTS : 5 V/ 10 kΩ DNX773S, DNX573S : 4 V/ 10 kΩ

Preout Impedance

DNX893S, DNX693S, DNX7160BTS, DNX5160BTS : \leq 300 Ω DNX773S, DNX573S : \leq 600 Ω

Speaker Impedance

:4-8Ω

Navigation section

Receiver

: High-sensitivity GPS receiver

Reception Frequency

: 1575.42 MHz (C/A code)

Acquisition Times

Cold : 29 seconds (typ) (All satellites at -130 dBm Without aiding)

Update Rate

: 1/second, continuous

Accuracy

Position: <2.5 meters, CEP, at -130 dBm Velocity: 0.1 meter/sec

Position Method

: GPS

Antenna

: External GPS antenna

General

Operating Voltage

: 14.4 V (10.5 – 16 V allowable)

Maximum Current Consumption

:15 A

Installation Dimensions (W \times H \times D)

DNX893S, DNX773S, DNX7160BTS : 182 × 112 × 163 mm 7-3/16 × 4-7/16 × 6-7/16 inch DNX693S, DNX573S, DNX5160BTS : 182 × 112 × 153 mm 7-3/16 × 4-7/16 × 6 inch

Operational Temperature Range

:-10 °C -+60 °C

Weight

DNX893S : 2.5 kg (5.5 lbs) DNX773S, DNX7160BTS : 2.4 kg (5.3 lbs) DNX693S, DNX573S, DNX5160BTS : 2.0 kg (4.4 lbs)

NOTE

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

Specifications subject to change without notice.

About this Unit

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libvorbis

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libogg

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DNX8935/ DNX7735/ DNX6935/ DNX573S: ■ 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.

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 guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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 21 CFR SUBCHAPTER J IN EFFECT AT DATE OF MANUFACTURE.

Location: Top plate

DNX8935/ DNX7735/ DNX6935/ DNX5735: ■ IC (Industry Canada) Notice

This device complies with Industry Canada licenceexempt RSS standard(s).

Operation is subject to the following two conditions: (1)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.

ACAUTION

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 (MPE). 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.

DNX893S/ DNX773S/ DNX693S/ DNX573S:

- Contains Transmitter Module
- FCC ID: ZWY8811X
- Contains Transmitter Module
- IC: 12033A-8811X

CALIFORNIA, USA

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países que hayan adoptado sistemas independientes de recogida de residuos)



Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos.

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Para cumplimiento de la COFETEL:

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(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y

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DNX7160BTS/ DNX5160BTS: ■ The marking of products using lasers

CLASS 1 LASER PRODUCT

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



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