# KENWOOD

# GPS NAVIGATION SYSTEM DNX5220BT DNX5220 MONITOR WITH DVD RECEIVER DDX5022 DDX5022Y DDX5022Y DDX52RY

# **INSTRUCTION MANUAL**

Kenwood Corporation



Before Use Notes	6	
Navigation Control Using the Navigation System Navigatoin Information Interrupt on th Screen of Other Sources (DNX5220BT/DNX5220 only) Control of Other Sources While Display Navigation Screen	14	<b>iPod Control</b> Connecting an iPod Functions When Displaying the Eas Panel Functions While Displaying the Cor
Watching DVD/VCD Functions During the Playback Screen Functions When Displaying the Easy C Panel Functions While Displaying the Contro DVD Disc Menu	ontrol 17	USB Device Control Functions When Displaying the Eas Panel Functions While displaying the Cor Folder Select
VCD Zoom Control	20	
Music Disc & Audio File Listening Functions While Displaying the Contro	<b>21</b> Il Screen 21	<b>TV Watching</b> Function During TV Screen Functions When Displaying the Eas Panel Functions While Displaying the Cor
Video File/Picture Watching Function During Playback Screen Functions When Displaying the Easy C Panel	<b>23</b> 23 ontrol 24	TV Menu (with KTC-D500E (option accessory) connected only) Seek Mode Auto Memory Manual Memory

27

28

28

29 29

30

Seek Mode

Radio Text

Auto Memory

Manual Memory

Traffic Information Search for Program Type

Muting Audio Volume upon		
Reception of Phone Call	42	
Muting Audio Volume upon Reception of		

Phone Call 42

Character Entry	Character	Entry
-----------------	-----------	-------

How to Use the	Character	Entry	Screen	43

43

Screen Control	44
Screen Control	44

Hands Free Unit Control	45
Before Use	45
Downloading the Phonebook	45
Control Screen Function	45
When Received a Call	46
Calling by Entering a Phone Number	47
Quick Dialing	47
Controlling Tone-based Services	48
Calling by Phonebook	48
Making a Call Using Outgoing/Incoming	Call
Records	50
Calling by Voice Recognition	50
Setting Up the Hands-Free Phone	51
Voice Recognition	52
Key Word Voice Recognition	53
Phone Number Preset	54
SMS (Short Message Service)	55

Setup Menu	56
Setup Menu	56
Audio Setup	56
Crossover Network Setup	57
DVD Setup	57
Language Setup	58
Parental Level Setup	59
DivX Setup	60
System Setup	60
Panel Color Coordinate	61
AV Interface Setup	62
User Interface	64
Direct Source Button Setup	65
Entering Background	66
Background Delete	66
Background Select	67
Touch Panel Adjustment	67
Clock Setup	68
Monitor Setup	68
Security Code Setup	70
iPod Setup	71
TV Setup	72
RDS Setup	72
Bluetooth Setup	73
Registering Bluetooth Unit	73
Registering Bluetooth Unit PIN Code	74
Registering Special Bluetooth Unit	75
Bluetooth Unit Connection	75
Deleting Bluetooth Unit	76
Software Information	76
Setup Memory	77

Audio Control	78
Audio Control Menu	78
Audio Control	78
Equalizer Control	79
Tone Setup	80
Zone Control	80

Remote Controller	82
Battery installation	82
Remote Controller mode switch	82
Common operations (AUD mode)	83
DVD/VCD/CD/Audio files (DVD mode)	84
TV (TV mode)	85
Radio (AUD mode)	86
NAVI (NAVI mode)	86

DVD Language Codes	88
Help? Error	89
Help? Troubleshooting	90
Specifications	92

## How to read this manual

This manual uses illustrations to explain its operations.

The displays and panels shown in this manual are examples used to provide clear explanations of the operations.

Seek Mode

TUNER

Display

"AUTO1

"AUTO2"

"MANU

Manual Memory

memory

2 Store in memory TUNER

Sets a station selection.

.......

The mode is switched in following order each

Tunes in a station with good reception

Tunes in stations in memory one after another.

time you touch the button.

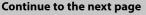
Settina

automatically.

Stores the current receiving station in memory.

For this reason, they may be different from the actual displays or panels used, or some display patterns may be different.

- ▼ : Continues to the next line.
- : Ends here.



The instruction continues to the next page. Make sure to flip the page for the rest of the instruction.

Next page ►



**Short Press** Press the button, denoted by <

## Change in the screen

With each operation, the screen changes in the order shown here.

## Selecting a screen item

Select and choose an item on the screen. Select the item by touching the button on the screen.

#### Press 1 second or more

Press the button, denoted by Ima, for 1 second or more (2-3 seconds).

Indicates to press and hold down the button until operation starts or the screen changes. The left example indicates to press the button for 1 second.

Press it approximately for the seconds shown in the clock.

## Other marks



Important precautions are described to prevent injuries etc.

{===

Special instructions, supplementary explanations, limitations, and reference pages are described.



General precautions and reference pages are shown on the item.



The initial value of each setup is shown.

## 

**Before Use** 

## 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.

#### How to reset your unit

- If the unit or the connected unit (disc auto changer, etc.) fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Remove the USB device before pressing the Reset button. Pressing the Reset button with the USB device installed can damage the data contained in the USB device. For how to remove the USB device, see <Playing a USB device> (page 10).



Reset button

## **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 erases characters.

## Lens Fogging

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

## **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 cannot be used

· Discs that are not round 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 first first difference of the correctly play discs which do not have the mark.
- You cannot play a CD-R or CD-RW that has not been finalized. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)
- If you try to load a 3-inch-disc with its adapter into the unit, the adapter might separate from the disc and damage the unit.

## Other notes

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- The characters conforming to ISO 8859-1 character set can be displayed.
- The RDS or RBDS feature won't work where the service is not supported by any broadcasting station.



# Navigation units that can be connected to this unit (DDX5022/DDX5022Y/DDX52RY only)

- KNA-G520\*
- KNA-G420\*
- KNA-G421\*
- KNA-DV3200
- KNA-DV2200
- \* Update the navigation software to the latest version. For how to update the software, refer to the instruction manual of the navigation unit.

## iPod that can be connected to this unit

You can control an iPod from this unit by connecting an iPod (commercial product) with Dock connector using an optional accessory iPod connection cable (KCA-iP300V).

The following iPods can be controlled from this unit.

- iPod nano
- iPod nano (Second Generation)
- · iPod nano (3rd Generation)
- · Fifth Generation iPod (iPod with video)
- iPod classic
- iPod touch

Update iPod software to the latest version.

The latest iPod software updater can be downloaded from the Apple Inc. web site.

By connecting your iPod to this unit with an optional accessory iPod connection cable (KCA-iP300V), you can supply power to your iPod as well as charge it while playing music. However, the power of this unit must be on.

#### Bluetooth unit that can be connected to this unit (DNX5220/DDX5022/DDX5022Y/DDX52RY

#### only)

• KCA-BT200

## TV tuner that can be connected to this unit

- KTC-D500E
- KTC-V300E

## List of playable discs

Disc	Standard	Support	Remark
DVD	DVD Video	0	
010	DVD Audio		
	DVD-R	×	
	DIDIN	0	MP3/WMA/AAC/JPEG/
	DVD-RW	0	MPEG/DivX Playback Multi-border/Multisession/
	DVD+R	0	(Playback depends on authoring conditions) Compatible with 8-cm (3
	DVD+RW	0	inch) discs
	DVD-R DL (Dual layer)	0	
	DVD+R DL (Double layer)	0	Only video format
	DVD-RAM	-	·
CD	Music CD	<u> </u>	CD-TEXT/8-cm (3 inch)
			discs supported.
	CD-ROM	0	MP3/WMA/AAC/JPEG/
	CD-R	0	DivX playback
	CD-RW	0	Multisession supported Packet write not supported.
	DTS-CD	0	
	Video CD (VCD)	0	
	Super video CD	×	
	Photo CD	$\frac{\times}{\times}$	
	CD-EXTRA	Δ	Only music CD session can be played.
	HDCD	Δ	Sound quality of normal CD music
	CCCD	×	
Others	Dualdisc	$\sim$	
	Super audio CD	$\triangle$	Only CD layer can be played.

O : Playback is possible.

 $\Delta$  : Playback is partly possible.

× : Playback is impossible.



 When buying DRM enabled contents, check the Registration Code in the <DivX Setup> (page 60).
 Registration Code changes each time a file with the displayed Registration Code is played to protect against copying.

## 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 Audio files**

## Playable Audio file

AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)

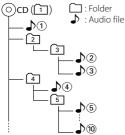
## Ð

- 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.
- Playable disc media
   CD-R/RW/ROM, DVD±R/RW
- Playable disc file format ISO 9660 Level 1/2, Joliet, Romeo, Long file name.
- Playable USB device USB mass storage class, iPod with KCA-iP300V
- Playable USB device file system FAT16, FAT32

Although the audio files are complied with the standards listed above, the play maybe impossible depending on the types or conditions of media or device.

## Playing order of the Audio file

In the example of folder/file tree shown below, the files are played in the order from 1 to 0.



An online manual about audio files is put on the site, www.kenwood.com/audiofile/. 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.

## 

- In this manual, the word "USB device" is used for flash memories and digital audio players which have USB terminals.
- The word "iPod" appearing in this manual indicates the iPod connected with the KCA-iP300V (optional accessory).

## **About Video files**

- Acceptable video files MPEG1, MPEG2, DivX
- Extensions mpg, mpeg, m1v, m2v, divx, div, avi
- Acceptable media
   CD-R/RW/ROM, DVD±R/RW, VCD, mass-storage-

class USB device, iPod with KCA-iP300V Acceptable discs, disc formats, USB device file system, file and folder names and playing order are the same as those for audio files. See <About Audio files>.

## **About Picture files**

Acceptable picture files
 JPEG

 Extensions jpg, jpeg

Acceptable media
 CD-B/RW/BOM\_DVD+E

CD-R/RW/ROM, DVD±R/RW, mass-storage-class USB device

Acceptable discs, disc formats, USB device file system, file and folder names and playing order are the same as those for audio files. See <About Audio files>.

## About USB device

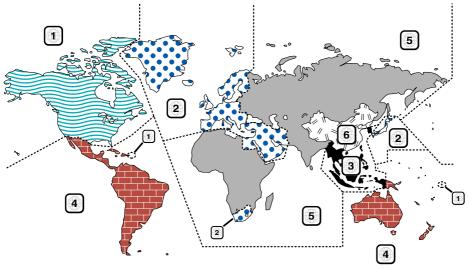
 If you start playback after connecting the iPod, the music that has been played by the iPod is played first.

In this case, "RESUMING" 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.
- When the USB device is connected to this unit, it can be charged up provided that this unit is powered.
- Install the USB device in the place where it will not prevent you from driving your vehicle properly.
- 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 out of erasure of the stored 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.
   Normal playback is not guaranteed when a cable other than the USB compatible cable is used.
   Connecting a cable whose total length is longer than 5 m can result in abnormal playback.

## 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**

Symbol	Description		
ALL	Indicates a region number. The discs with this mark can be played with any DVD player.		
8))	Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.		
32	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.		
16:9 LB	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).		

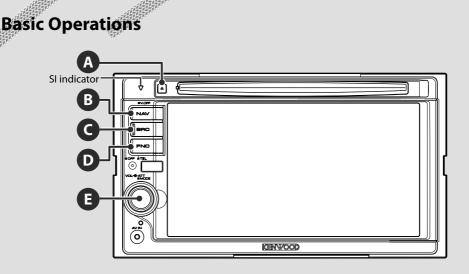
## **Operation regulatory marks**

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.



R

## **Turns power ON/OFF**

C

Press the button to turn on the power. When the button is pressed and held down for 1 second or more, the power is turned off.

## Switches to the Navigation system

Press the button to switch the display to the navigation system screen.

## Adjusts the volume

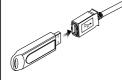
Turn it either way to adjust the volume.

## Attenuates the volume

Press it to attenuate the volume. Press it again to cancel muting.

## **Playing a USB device**

When connecting a USB device, playback starts automatically.



/!\

## ⊜

- If the USB source is selected when a USB device is not connected, "No Device" is displayed.
- When the playback is stopped and then restarted, the playback will start from the point where it was stopped at the last time. Even if the USB is removed and connected again, the playback will start from the last stopped point unless the contents in the USB device is changed.
- Make sure that the USB device is connected firmly.

## **Removing the USB device**

Press even to enter the USB suspend mode, and then remove the USB device. See <USB Device Control> (page 34).

Removing the USB device before entering the USB suspend mode may result in damaging the data in the USB device.

## Selecting a source

C

Press it to display the source select screen. Touch the source button to select the source.

⊞

## Full Source Select screen





## Favorite Source Select screen



1 Scrolls the source display.

2 Displays the Hands Free screen. (page 45)

 The displayed source depends on the type of device connected. In addition, you cannot press the button of currently unavailable source.

## The following buttons are always displayed on the source select screen and source control screen.

3 Displays the Source Select screen.

The display switches between Favorite Source Select screen and Full Source Select screen by touching the button.

- 4 Displays Source Control screen.
- 5 Displays the Audio Control Menu screen. (page 78)
- 6 Displays the Setup Menu screen. (page 56)
- 7 Clock display
- 8 Turns the traffic information function On or Off. (page 29)

(m)

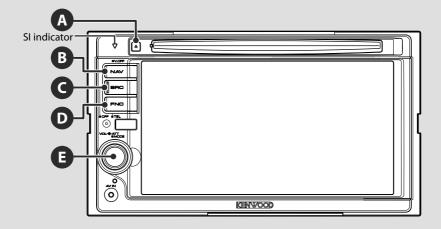
• DNX5220/DDX5022/DDX5022Y/DDX52RY only: If a Bluetooth Unit is not connected, [TEL] will not appear.

9 Displays the Full Source Select screen.

 For how to register the frequently used source buttons to Favorite Source Select screen, see <Direct Source Button Setup> (page 65).



D



В

## Switches to the Hands Free control

Press it for more than 1 second to the Hands Free control screen.

Press it again for more than 1 second to resume the normal display.

## Playing an external player

Connect an external player such as a digital audio player to AV IN jack. Use of the optional cable CA-C3AV is recommended for connecting an external player.



## Turns the display OFF

Press it for more than 1 second to turn the display off.

Press [NAV], [SRC] or [FNC] button, or touch the screen to resume the normal display.

• Functions of the [NAV] button can be changed to rear view function. See <System Setup> (page 60) for the function setting of the [NAV] button.

#### D Switching the function screen The function control screen switches in the following order each time you press the button. Navigation screen Picture or Video plavback Source Control screen screen [FNC] button [FNC] button [FNC] button Easy Control buttons Easy Control buttons Navigation information appear. appear. appears.\* \*DNX5220BT/DNX5220 only Navigation screen Picture or Video playback screen DVD VIDEO AV-OUT:AV-IN Mode:Full I-710 N to Atlantic Blvd-North .6 SCRN 65 TL 1:27 00:00:05 00:00:05 Easy Control button Easy Control button {

• For the functions of Easy Control buttons, see <Control of Other Sources While Displaying the Navigation Screen> (page 15).

## Source Control screen

Ε



## $\mathbb{D}$

 For the functions of Navigation information, see <Navigation Information Interrupt on the Screen of Other Sources> (page 14).

## Scrolls the list and makes a selection

When the list screen of a source control screen is displayed, press it for more than 1 second to enter list control mode.

Turn it either way to scroll the list. Press it to make a selection.

Press it again for more than 1 second to return to the volume control mode.

## Example: List screen of DVD MEDIA source

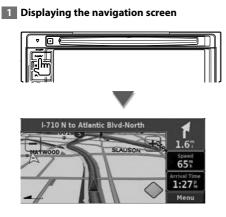


## **Navigation Control**

Sets and controls the navigation system function.

## **Using the Navigation System**

Displays the navigation system screen and makes the navigation function available.



#### 2 Setting the navigation system function

Touch the navigation system button displayed on the screen. See the included NAVIGATION SYSTEM's INSTRUCTION MANUAL for information on using the navigation system.

 You can set the navigation system function when nothing else is displayed on the screen. If anything else, such as Easy control panel is displayed, erase it first.

(;;;)

 For DDX5022/DDX5022Y/DDX52RY, an optional navigation system needs to be connected. See <Navigation unit that can be connected to this unit> (page 7) for connectable navigation units.

## Navigatoin Information Interrupt on the Screen of Other Sources (DNX5220BT/DNX5220 only)

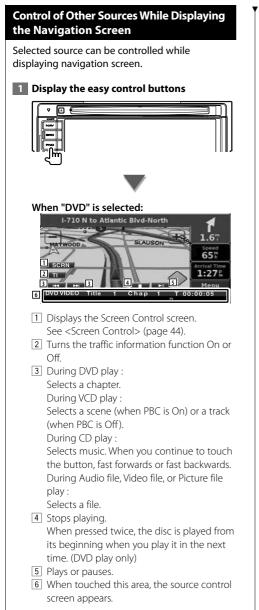
Interrupts other source screen and displays information such as guide point.

#### While a control screen is displaying:

Navigation information appears on the bottom of the screen.



 Displays the Navigation information. When touched this area, the navigation screen appears.



## When "USB" or "iPod" is selected:



- During iPod play : Searches Music or Video. During USB play : Selects a file.
- 8 Plays or pauses.
- 9 When touched this area, the source control screen appears.

## When "TUNER" is selected:

- 10 HA FM 11 Menu 12 TUNER FM1 98.1 MHz
- 10 Tunes in a station.
- 11 Switches the band (to AM or FM 1/2/3).
- 12 When touched this area, the source control screen appears.

#### When "TV" is selected:



- Selects a channel.
   Use the <Seek Mode> (page 39) to change the channel tuning sequence.
- 14 Switches to TV1 or TV2.\*1
- 15 Switches the Seek mode.\*1
- **16** When touched this area, the source control screen appears.

## When "Bluetooth" is selected:



- 17 Selects a file.
- 18 Plays.
- 19 Pauses.
- 20 When touched this area, the source control screen appears.



- The Easy Control buttons are hidden when you touch the central part of the screen.
- \*1Not available for the optional digital TV tuner KTC-D500E.

## Watching DVD/VCD

## You can play DVD/VCD using various functions.



- For the basic method of how to watch DVD/VCD, see <Basic Operations> (page 10).
- Set the remote controller mode switch to "DVD" mode before starting operation, see <Remote Controller mode switch> (page 82).

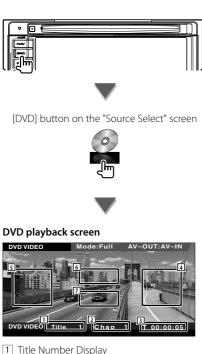
## **Functions During the Playback Screen**

Basic functions are available even when the playback screen is displayed.

## 1 Display the playback screen



or



- 2 Chapter Number Display
- 3 Play Time Display

- 4 Forward Chapter Search Area Selects the next chapter.
- 5 Backward Chapter Search Area Selects the previous chapter.
- 6 DVD Disc Menu Control Buttons Area Displays the Disc Menu Control buttons (page 18).
- 7 Information Display Button Area

## VCD playback screen

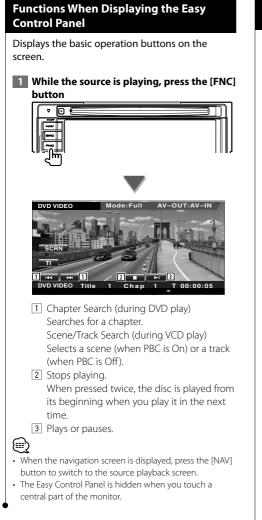


- 8 Scene/Track Number Display
- 9 Play time Display
- 10 Forward Scene/Track Search Area Selects the next scene (when PBC is On) or track (when PBC is Off).
- Backward Scene/Track Search Area Selects the previous scene (when PBC is On) or track (when PBC is Off).
- 12 Zoom Control Button Area Displays the Zoom Control buttons (page 20).

13 Information Display Button Area



 The information display is cleared automatically after approximately 5 seconds. Also, the information can be displayed automatically when it is updated.



## Functions While Displaying the Control Screen

Switches to the source control screen to use various playback functions.

1 While the source is playing, press the [FNC] button





## When playing a DVD

Ibyp vid         Image: Second state         Image: Second state <th< th=""></th<>

## When playing a VCD



- 1 Switches to the playback screen.
- 2 Title Number Display (during DVD play)
- 3 Chapter/Scene/Track Number Display
- 4 Play Mode Display
- 5 Play Time Display
- 6 Volume Label Display When a is appeared, the text display is scrolled by pressing it.
- 7 Ejects the disc.
- 8 Fast Forwards or Fast Backwards.

Next page ►

9 Stops playing.

When pressed twice, the disc is played from its beginning when you play it in the next time.

- Selects a chapter, a scene or a track.
   When the DVD-VIDEO/VCD is paused, touch this button to start single-frame stepping.
- 11 Plays or pauses.
- 12 Slow Forwards or Backwards. (during DVD play)
- 13 Switches the button display.
- Switches the Repeat Play operations in the following sequence.
  - DVD: Title Repeat, Chapter Repeat, Repeat Off
  - VCD: Track Repeat, Repeat Off (Available when the PBC is off)
- **15** Switches the play time display in the following sequence.
  - DVD: Chapter, Title, remaining titles
  - VCD: Track, disc, remaining discs (Effective only when the PBC function is off)
- 16 Function Indicator
- 17 Appears when a disc is inserted.
- 18 Sound indicator
- III Turns the PBC function of VCD On or Off. (only when VCD Ver 2.0 is in use)
- 20 Appears when PBC is On.
- 21 VCD version indicator

## **DVD Disc Menu**

Selects an option from the DVD Disc Menu.

#### **1** Display the Disc Menu Control screen





- 1 Calls the Menu.
- 2 Returns to the Disc Menu screen.
- 3 Selects a menu option.
- 4 Enters your menu selection.
- 5 Returns to the previous menu screen.
- 6 Displays the Top Menu.
- 7 Highlight Control.
- 8 Clears the Disc Menu Control.

## **Highlight Control**

You can select a chapter and title for the DVD Menu screen. When you touch the screen, you can select the DVD menu.



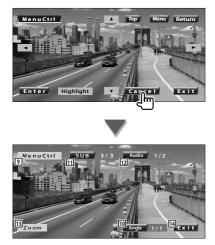


## 

• To cancel Highlight Control, press [FNC] button.

2 Select Disc Menu options

## Disc Menu



- 9 Calls the Menu Control.
- Switches the picture angle. (during program playback only)

- 11 Switches the subtitle language. (during program playback only)
- Switches the voice language. (during program playback only)
- 13 Displays the Zoom Control screen.
- 14 Clears the Disc Menu Control.

## Zoom Control





- 15 Changes the zoom ratio at 4 levels (2 times, 3 times, 4 times, or off) each time you touch.
- **16** Scrolls the screen in the direction you touch.
- 17 Returns to the Disc Menu Control screen.
- 18 Clears the Disc Menu Control.

## VCD Zoom Control

Displays an enlarged VCD screen.







- 1 Changes the zoom ratio at 2 levels (2 times or off) each time you touch.
- 2 Scrolls the screen in the direction you touch.
- 3 Clears the Zoom Control button.

## Music Disc & Audio File Listening

You can recall various control screens during CD/Audio file playback.

- For the basic method of how to play a music disc/audio file, see <Basic Operations> (page 10).
- See <List of playable discs> (page 7) for playable discs.
- See <About Audio file> (page 8) for playable files.

## Functions While Displaying the Control Screen

Switches to the source control screen to use various playback functions.

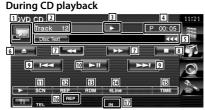


#### or



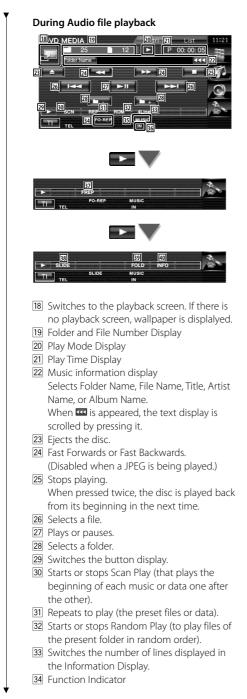


## . . . . .



- 1 Switches to the wallpaper.
- 2 Track (Music) Number Display
- 3 Play Mode Display
- 4 Play Time Display

- Music information display Selects the Disc Text or Track Text.
   When a background by pressing it.
- 6 Ejects the disc.
- 7 Fast Forwards or Fast Backwards.
- 8 Stops playing the built-in disc player. When pressed twice, the disc is played from its beginning when you play it in the next time.
- 9 Selects a track.
- 10 Plays or pauses.
- Starts or stops Scan Play (that plays the beginning of each music one after the other).
- 12 Repeats to play (the present track).
- 13 Starts or stops Random Play (to play music in random order).
- Switches the number of lines displayed in the Information Display.
- 15 Switches the play time display between Track, Disc, and Disc Remaining Time.
- 16 Function Indicator
- 17 Appears when a disc is inserted.



- 35 MUSIC, MOVIE or PICTURE indicator
- 36 Appears when a disc is inserted.
- 37 Repeats to play the music or data of the present folder.
- Displays images in the folder currently being played one after another.
   If there is no image in the folder currently being played, initial background is displayed.

For information on setting the image display time, see <System Setup> (page 60).

- You can search for folders and Audio files through a hierarchy.
- Displays music information (such as Tag and content property) of Audio file being played.



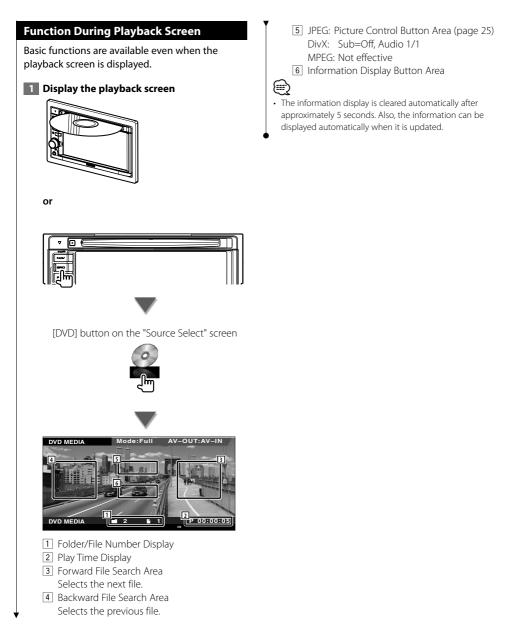
 Lists folders and Audio files
 Folder opens when touched, and the Audio file is played.
 When the text display is

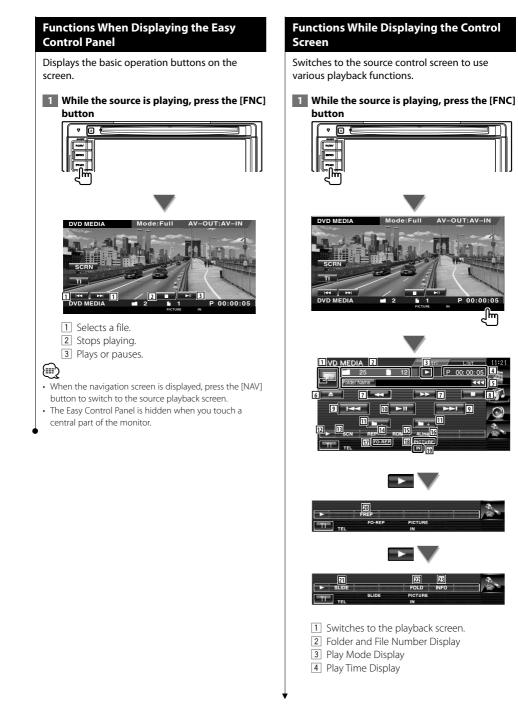
When **w** is appeared, the text display is scrolled by pressing it.

- 42 Scrolls the list.
- 43 Moves to the top hierarchy level.
- [44] Moves up a hierarchy level.

## Video File/Picture Watching

You can recall various control screens during playback of video file (MPEG 1, MPEG 2 and DivX file) and picture file (JPEG file).





- Video/Picture information display
   Selects Folder Name, File Name, Title, Artist
   Name, or Album Name.
   When a ppeared, the text display is
   scrolled by pressing it.
- 6 Ejects a disc.
- [7] Fast Forwards or Fast Backwards.(Disabled when a JPEG is being played.)
- Stops playing.
   When pressed twice, the disc is played back from its beginning in the next time.
- 9 Selects a file.
- 10 Plays or pauses.
- 11 Selects a folder.
- 12 Switches the button display.
- 13 Starts or stops Scan Play (that plays the beginning of each song or data one after the other).
- 14 Repeats to play (the preset files or data).
- 15 Starts or stops Random Play (to play files of the present folder in random order).
- Switches the number of lines displayed in the Information Display.
- 17 Function Indicator
- 18 PICTURE, MOVIE or MUSIC indicator
- 19 Appears when a disc is inserted.
- 20 Repeats to play the file of the present folder.
- Displays images in the folder currently being played one after another.
   If there is no image in the folder currently being played, initial background is displayed.
   For information on setting the image

display time, see <System Setup> (page 60).

- You can search for folders and files through a hierarchy.
- 23 Displays information of file being played.



 Lists folders and Video files/Picture files.
 Folder opens when touched, and the Video/ Picture file is played.

- 25 Scrolls the list.
- 26 Moves to the top hierarchy level.
- 27 Moves up a hierarchy level.

## Picture Control

Adjusting the video display.

## 1 Start Picture Control



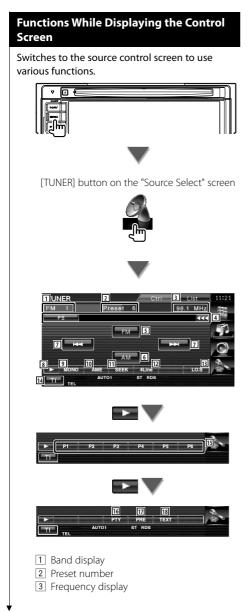


- 1 Reverses the picture horizontally.
- 2 Rotates counter clockwise.
- 3 Rotates clockwise.
- 4 Ends Picture Control.
- 5 Applies the effect.

## Radio Listening

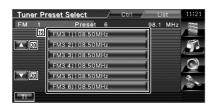
## Various control screens appear in the Tuner Source mode.

- For the basic method of receiver button operations, see <Basic Operations> (page 10).
- Set the remote controller mode switch to "AUD" mode before starting operation, see <Remote Controller mode switch> (page 82).



- Adio station information display. Selects the Program Service Name, Title & Artist name, Station Name, Category Name 1/2, or Radio Text.
- 5 Switches to the FM1/2/3 band.
- 6 Switches to the AM band.
- Tunes in a station.
   Use the <Seek Mode> (page 27) to change the frequency switching.
- 8 Switches the button display.
- Selects the Monaural reception mode. (Only when receiving the FM broadcast)
- Selects the Auto Memory mode.(See page 28 for the <Auto Memory>)
- Switches the Seek mode.(See page 27 for the <Seek Mode>)
- 2 Switches the number of lines displayed in the Information Display.
- 13 Turns the Local Seek function On or Off.
- 14 Turns the Traffic Information function On or Off.
  - See <Traffic Information>, (page 29).
- When P<sup>1</sup> to P<sup>2</sup> buttons appear, you can recall the stations on memory.
   For memory of broadcasting stations, see <Auto Memory> (page 28) or <Manual Memory> (page 28).
- **16** Searches station by program type. See <Search for Program Type> (page 30).
- 17 Lists and selects memorized station.
- Displays Radio Text screen. See <Radio Text> (page 29).





- Memorized stations are displayed. Touch to tune in.
- 20 Scrolls the list.

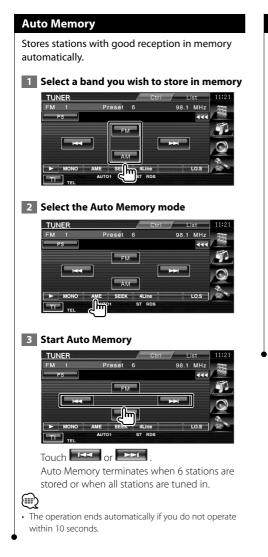
## Seek Mode

#### Sets a station selection.



The mode is switched in following order each time you touch the button.

Display	Setting Tunes in a station with good reception automatically.			
"AUTO1"				
"AUTO2"	Tunes in stations in memory one after another.			
"MANU"	Switches to the next frequency manually.			



## Manual Memory

Stores the current receiving station in memory.

1 Select a station you wish to store in memory



#### 2 Store in memory



Continue to touch until the memory number appears.



You can display the radio text. (Only when

receiving the FM broadcast)

1 Select a station

**Radio Text** 

- Selects the Program Service Name, Title & Artist name, Station Name, Radio Text Plus, or Radio Text for text display.
   When a papeared, the text display is scrolled by pressing it.
- 2 Scrolls the text display.

## **Traffic Information**

When a traffic bulletin starts, any source is switched to the traffic information and it is displayed automatically.

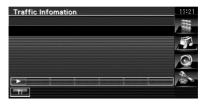
## 1 Set the Traffic information mode



## When the traffic bulletin starts...

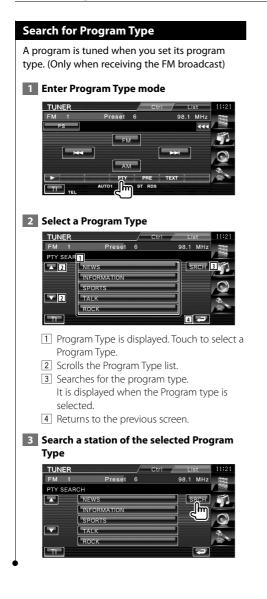
The Traffic Information screen appears automatically.

## Traffic Information screen





- It is necessary to have Traffic Information function set to On in order to have the Traffic Information screen appear automatically.
- During reception of traffic information the adjusted volume is automatically remembered, and the next time it switches to traffic information it's automatically the remembered volume.

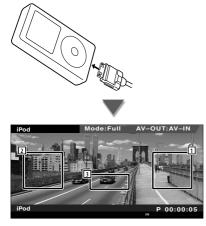


You can control and listen to songs in your iPod by connecting an iPod to this unit with KCA-iP300V (optional accessory). You can also display video contents on this unit when connecting an iPod with video.

## **Connecting an iPod**

iPod Control

Connect an iPod to this unit.



- 1 Forward music/video search area Selects the next music/video.
- 2 Backward music/video search area Selects the previous music/video.
- Information display button area
   The information is displayed for 5 seconds.
- Remove all accessories such as headphone before connecting an iPod. You may not be able to control the iPod if you connect it with accessories attached.

(iiii)

- When you connect an iPod to this unit, playback starts from the song you were playing on the iPod itself (Resume Function).
- If the played song is not a video content, "No iPod Video Signal" is displayed on the video screen.
- While connecting an iPod, "KENWOOD" appears on the iPod and the iPod's control is disabled.

## Functions When Displaying the Easy Control Panel

Displays the basic operation buttons on the screen.

While the source is playing, press the [FNC] button

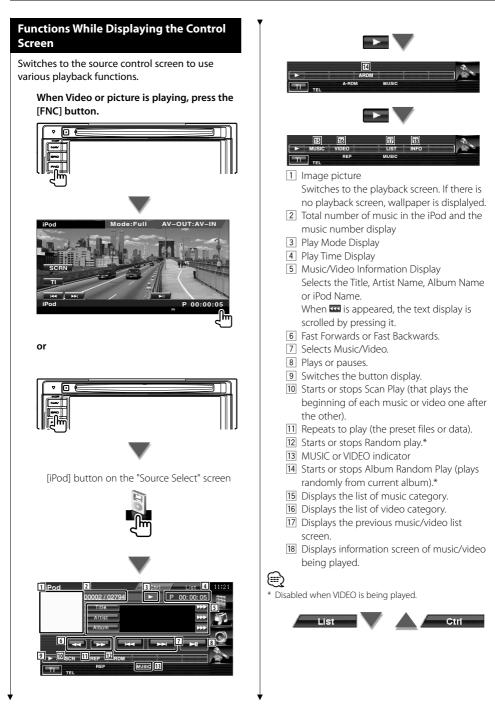




- 1 Music/Video Search.
- 2 Plays or pauses.



- When the navigation screen is displayed, press the [NAV] button to switch to the source playback screen.
- The Easy Control Panel is hidden when you touch a central part of the monitor.



1)Pod	/=	Ctrl /	List	11:21
00002 / 02794		Р	00: 00: 05	
Category Name		19	444	
▲ 20 - ♪   Title			L op []	21
Title			🖬 🛊 тор	22
<b>20 H</b> Title	_			3
Title			<u>}≣</u> cur	23

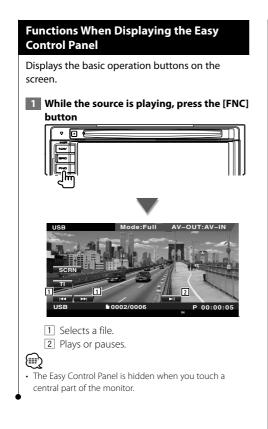
- Categories and music are listed.
   Touch a category name to move its lower level. If music title is displayed, the music is played by touching it.
   When a ppeared, the text display is scrolled by pressing it.
   When is appeared, all the music in its
  - category is played by touching the button.
- 20 Switches list page.
- 21 Returns to previous category.
- 22 Moves to the top category.
- 23 Displays the currently playing category.

## **USB** Device Control

You can control and listen to songs in your USB device by simply connecting it to the USB connector of this unit.

## 

• For the connection of a USB device, see <Basic Operations> (page 10).



## Functions While displaying the Control Screen

Switches to the source control screen to use various playback functions.

## When Video or picture is playing, press the [FNC] button.





or



[USB] button on the "Source Select" screen





	0002 / 0279 P 00: 00: 05
6	
► ▼	FREP FREP FO-REP MUSIC
► T	I7         I8         I9         20           SLIDE         FLIST         PLIST         INFO         A           SLIDE         FLIST         PLIST         INFO         A           TEL         SLIDE         FLIST         MUSIC         A
_	Image picture Switches to the playback screen. If there is no playback screen, wallpaper is displalyed.
3	Track Number Display Play Mode Display Play Time Display
	Music information display Selects the Folder Name, File Name, Title, Artist Name, or Album Name. When <b>T</b> is appeared, the text display is scrolled by pressing it.
	Removes the USB device. When "No Device" is shown, the USB device can be removed safely.
7	If you wish to play it again while the USB device is connected, press it again. Selects a folder. (Only in Folder Select
8	Mode)* Selects a file. Plays or pauses.
	Switches the button display. Starts or stops Scan Play (that plays the beginning of each music one after the other).
	Repeats to play (the present music). Starts or stops Random Play (to play music in random order).*
	Switches the number of lines displayed in the Information Display.
15	MUSIC, VIDEO or PICTURE indicator

- **16** Repeats to play the music or data of the present folder. (Only in Folder Select Mode)
- Displays images in the folder currently being played one after another.
   If there is no image in the folder currently being played, initial background is displayed.

For information on setting the image display time, see <System Setup> (page 60).

- 18 Displays the folder list. See <Folder Select> (page 36).
- 19 Displays the list of category.
- 20 Displays information screen of music being played.

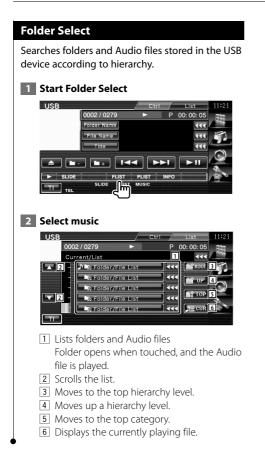


\* Disabled during play list mode.



The display above can also be the folder list display. See <Folder Select> (page 36).

- [21] Switches to the lower level of the category. If the file is displayed, the music is played by touching it.
- 22 Scrolls the list.
- 23 Lists all the music in the selected category.
- 24 Moves to the upper level of the category.
- 25 Moves to the top category.
- 26 Displays the currently playing category. (Only in Category Mode)



### TV Watching

Various control screens appear in the TV source mode. You can only operate TV with the optional accessory TV Tuner connected.

### **Function During TV Screen** Basic functions are available even when the TV screen is displayed. 1 Display the TV screen P [TV] button on the "Source Select" screen AV-OUT:AV-IN Mode:Full 2 Group 1 Preset 1 TV1 1 TV Band Number Display 2 TV Area Group Display. See <TV Setup> (page 72). 3 Memory Number Display 4 Channel Number Display 5 Channel Up Area Increases the channel. 6 Channel Down Area Decreases the channel. 7 Band Switch Area Switches to TV1 or TV2. 8 Information Display Button Area {;;;;;} The information display is cleared automatically after approximately 5 seconds. Also, the information can be displayed automatically when it is updated.

#### Functions When Displaying the Easy Control Panel

Displays the basic operation buttons on the screen.

1 While the source is playing, press the [FNC] button



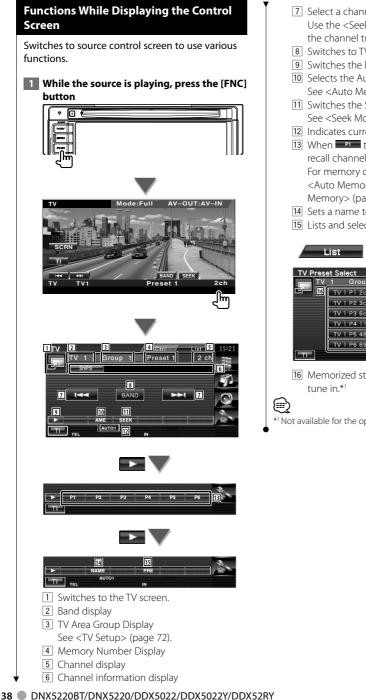


 Selects a channel. Use the <Seek Mode> (page 39) to change the channel tuning sequence.

- 2 Switches to TV1 or TV2.\*1
- 3 Switches the Seek mode.\*1



- When the navigation screen is displayed, press the [NAV] button to switch to the source playback screen.
- The Easy Control Panel is hidden when you touch a central part of the monitor.
- \*1 Not available for the optional digital TV Tuner KTC-D500E.



- 7 Select a channel. Use the <Seek Mode> (page 39) to change the channel tuning sequence.
- 8 Switches to TV1 or TV2.
- 9 Switches the button display.
- [10] Selects the Auto Memory mode. See <Auto Memory> (page 39).
- [11] Switches the Seek mode. See <Seek Mode> (page 39).
- 12 Indicates current Seek mode.
- 13 When to buttons, you can recall channels on memory. For memory of broadcasting stations, see <Auto Memory> (page 39) or <Manual Memory> (page 40).
- 14 Sets a name to the tuned station. (page 40)
- 15 Lists and selects memorized station.\*1

	ist 🚽 🖌	Ctrl	
TV Prese	t Select / Ctrl /	List	1:21
TV	1 Group 1 Preset 1	2 ch	222
16	TV 1 P1 2ch		del <del>a</del>
	TV 1 P2 3ch		****
	TV 1 P3 6ch	4	-
	TV 1 P4 11ch		$\odot$
	TV 1 P5 48ch		A
	TV 1 P6 69ch		G. O
-TF   U			

- 16 Memorized stations are displayed. Touch to
- Not available for the optional digital TV Tuner KTC-D500E.

### TV Menu (with KTC-D500E (optional accessory) connected only)

Menu Control screen appears by touching the area shown below.





- 1 Shows EPG (Electric Program Guide) screen.
- 2 Shows Digital TV Broadcansting menu screen.
- 3 Returns to the previous screen.
- 4 Executes selected menu item.
- 5 Returns to Digital TV screen.
- Moves highlight in Digital TV Broadcansting menu.

#### Seek Mode

#### Sets a station selection.



The mode is switched in following order each time you touch the button.

Display	Setting
"AUTO1"	Tunes in a station with good reception automatically.
"AUTO2"	Tunes in stations in memory one after another.
"MANU"	Switches to the next frequency manually.

#### Auto Memory

Stores stations with good reception in memory automatically.

#### **1** Select a band you wish to store in memory







#### 3 Start Auto Memory

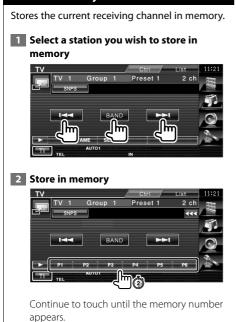


Auto Memory terminates when 6 stations are stored or when all stations are tuned in.



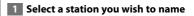
• The operation ends automatically if you do not operate within 10 seconds.

#### Manual Memory



#### Set Station Name

Assigns a name to a station.



#### 2 Start Name set



#### 3 Enter the name

See <Character Entry> (page 43) for information on how to enter a name.

#### 4 End Name set

11:21
] <u> </u>
] [ t
R
╢

### **Bluetooth Audio Control**

You can listen to audio files stored in Bluetooth audio player and cell-phone. For DNX5220/DDX5022/DDX5022Y/DDX52RY, Bluetooth unit KCA-BT200 (optional accessory) is necessary.

#### **Before Use**

#### For DNX5220BT :

- You need to register your audio player and cell-phone before using it with this unit. For more details, see <Registering Bluetooth Unit> (page 73).
- If you have registered two or more audio players or cellphones, you need to select one of them. For more details, see <Bluetooth Unit Connection> (page 75).

#### For DNX5220/DDX5022/DDX5022Y/DDX52RY :

• You need to register your audio player and cell-phone to your Bluetooth Unit beforehand. Make sure to read the instruction manual of the Bluetooth Unit as well.

### Functions While Displaying the Control Screen

Switches to control screen to use various functions.



[Bluetooth] button on the "Source Select" screen





- 1 Plays.
- 2 Pauses.
- Stops playing.
- 4 Selects a file.



 If the Bluetooth Audio player does not support AVRCP profile, buttons 1 to 4 are not displayed. Operate from the Audio player. Muting Audio Volume upon Reception of Phone call

When the telephone is called, the system is paused automatically.

## Muting Audio Volume upon Reception of Phone Call

#### When the telephone is called...

The Phone Call ("CALL") screen appears, and system is paused.

#### Phone Call ("CALL") screen



#### When the call ends...

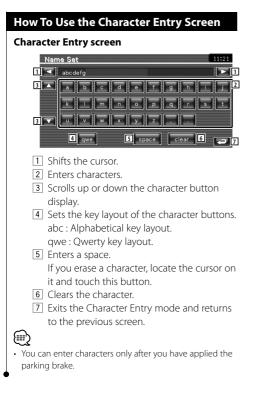
#### Hang up the phone.

The system resumes playing automatically.



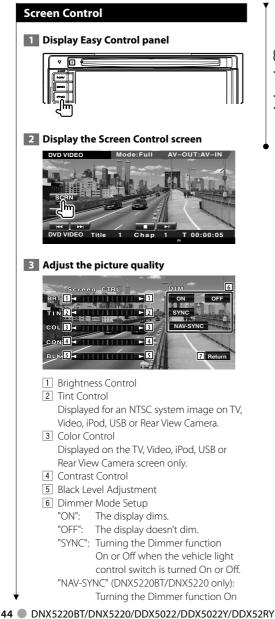
 To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <INSTALLATION MANUAL>. Character Entry

When you select the Set Station Name mode or others, the following screen appears for character entry.



Screen Control

Setting the monitor screen.



or Off according to the Navigation Day/Night display setting. 7 Returns to the previous screen.



- The Screen Control screen is displayed only when you have applied the parking brake.
- The picture quality can be set for each source.
- You can set image quality of screens such as menu from <Monitor Setup> (page 68) of the <Setup Menu>.

### **Hands Free Unit Control**

Various functions can be used in the Hands Free control mode. For DNX5220/DDX5022/DDX5022Y/DDX52RY, Bluetooth unit KCA-BT200 (optional accessory) is necessary.

#### **Before Use**

 To use the Phonebook, it must be downloaded to this unit in advance. For details, see <Downloading the Phonbook> (page 45).

#### For DNX5220BT :

- You need to register your cell-phone before using it with this unit. For more details, see <Registering Bluetooth Unit> (page 73).
- If you have registered two or more cell-phones, you need to select one of them. For more details, see <Bluetooth Unit Connection> (page 75).

#### For DNX5220/DDX5022/DDX5022Y/DDX52RY :

• You need to register your cell-phone to your Bluetooth Unit beforehand. Make sure to read the instruction manual of the Bluetooth Unit as well.

#### **Downloading the Phonebook**

Downloads the phonebook data from the cell-phone to this unit so that you can use the Phonebook of this unit.

### 1 By operating the cell-phone, send the phonebook data to this unit.

### **2** By operating the cell-phone, start the hands-free connection.



 For the cell-phones which support auto-download of phonebook:

If the phonebook is not downloaded automatically for some reasons, follow the procedure above to download manually.

- For how to operate the cell-phone, refer to the
  Instruction Manual that comes with your cell-phone.
- Up to 1000 phone numbers can be registered for each registered cell-phone.
- Up to 32 digits can be registered for each phone number along with up to 40 characters representing a name.
- Depending on the type of your cell-phone, the following restrictions are placed:
- The phonebook data cannot be downloaded normally.

- Characters in the Phonebook are garbled.
- The phonebook data cannot be downloaded normally if it contains images. It may take several hours to a full day to download the phone book depending on the total image size.
- To cancel downloading of the phonebook data, operate the cell-phone.

#### **Control Screen Function**

Displaying the control screen and using various functions.

#### 1 Display the Hands-Free Control screen



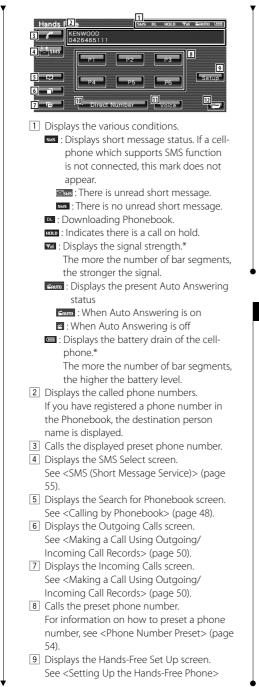
Press the [FNC] button for more than 1 second.

#### or



[TEL] button on the "Source Select" screen





(page 51).

- Displays the Dialing Display screen.
   See <Calling by Entering a Phone Number> (page 47).
- Starts voice recognition.

   See <Voice Recognition> (page 52).
- 12 Returns to the previous screen.



- While your car is moving, some functions are disabled for safety's sake. The buttons associated with the disabled functions become ineffective if pressed.
- When the Hands-Free Control screen appears, the name of the connected cell-phone is displayed for 5 seconds.
- \* Since the number of steps of the control unit is different from that of the cell-phone, the statuses displayed on the control unit may discord from those displayed on the cell-phone. No status is displayed if information about it cannot be obtained.
- Setting the cell-phone in the private mode can disable the hands-free function.

#### When Received a Call

When you receive a call, you can use the handsfree phone.

#### 1 Respond to a call

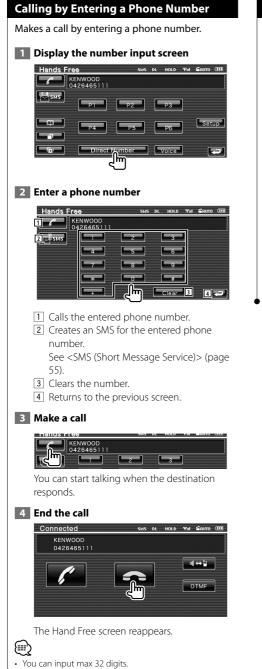


When a call arrives, the Talking screen appears automatically.

 Starts conversation with a person called. Switches the call destination if you hear a tone of call-waiting.

Resumes conversation with the person on hold after completed conversation with the other party.

- 2 Disconnects the phone.
- 3 Switches the voice output between phone and speaker.
- Outputs dial tone.
   See <Controlling Tone-based Services> (page 48).



#### **Quick Dialing**

You can register up to 6 phone numbers for quick dialing.



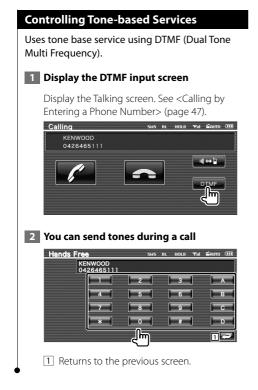
• Phone numbers must be registered in advance. See <Phone Number Preset> (page 54).

#### 1 Recall the phone number

Hands Free		SMS	DL	HOLD	Will	SAUTO	(IIII)
KEN 042	WOOD 6465111						
<b>Б</b> анка С	-Pi	P2	F	Р3	J		
	P4	P5	E	P6		Set	up
	Direct Num	ston	ſ	Voice	ז		اھ

#### 2 Make a call





#### **Calling by Phonebook**

You can call a person using his/her phone number that you have registered in the Phonebook.

#### 1 Display the Phonebook screen



The Initial Input screen appears.

#### 2 Select the Phonebook search method

You can search by the initial of the Phonebook data.

#### Initial alphabet screen



- Displays the Phonebook beginning with the name whose first character you have touched.
- 2 Scrolls the character array display.
- 3 Returns to the Hands-Free Control screen.

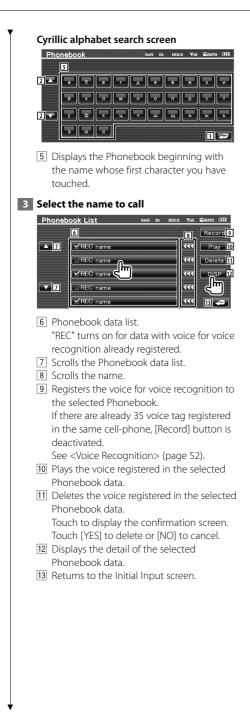


#### Initial number screen



4 Displays a list of numbers in the Phonebook starting with the selected number.





#### 4 Select the phone number to call



- 14 Calls the selected phone number.
- 15 Creates an SMS for the displayed phone number.

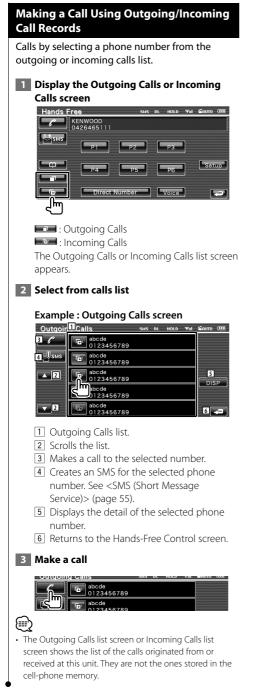
See <SMS (Short Message Service)> (page 55).

- **16** Scrolls the phone number.
- 17 Returns to the Name List screen.

#### 5 Make a call



- To use the Phonebook, it must have been downloaded from the cell-phone. For more details, see the instruction manual of your Bluetooth Unit and your cell-phone.
- Initials including no corresponding name will not be displayed.
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".



#### **Calling by Voice Recognition**

#### Calls by recognizing the registered voice.



 In order to perform voice recognition, voice must be registered in the Phonebook data. See <Voice Recognition> (page 52). Or, to perform voice recognition by Phone number category (Home, Office, Mobile etc.) of Phonebook data, a key word voice must be registered. See <Key Word Voice Recognition> (page 53).



#### 2 Utter the voice registered in the PhoneBook



Utter within 2 seconds after the Beep.

- 1 Displays the recognized phone number or address.
- 2 Cancels voice recognition.

### If the voice recognition is succeeded and there is only one phone number found:



Make a call.

3 Displays the phonebook list.

#### If you hear another Beep sound:

Speak the key word within 2 seconds after the Beep, or touch the [Phonebook List] button to select the phone number.

Make a call.



 If there are more than one phone numbers registered under the same name, and the key word voice is registered for each phone number, you will hear another beep. For how to register key word, see <Key Word Voice Recognition> (page 53).

# If there are more than one phone numbers registered under the same name, go to step 3.

#### 3 Select a Phone number category



- 4 Calls the displayed phone number.
- Creates an SMS to the displayed address.
   See <SMS (Short Message Service)> (page 55).
- 6 Selects the Phone number category.
- 7 Scrolls the phone number.
- 8 Returns to the previous screen.

#### 4 Make a call



 $\bigcirc$ 

A message is displayed if the voice is not recognized. Read the message for the further operation.

#### Setting Up the Hands-Free Phone

The Hands-Free system can be set as follows.

1 Display the Hands Free Setup screen



#### 2 Setup each item







- 1 Moves to the "Hands Free Setup 2" screen.
- - "0-99": Sets to calling ring time (second).
- - "Front L": Outputs the tone from the front left-hand side speaker.
  - "Front R": Outputs the tone from the front right-hand side speaker.
  - "Front All": Outputs the tone from the both front speakers.
- 4 Sets the beep of the incoming call.
   (▶ "ON")

"ON": Beep is heard.

"OFF": Beep is canceled.

Next page ►

- 5 Sets the beep of the incoming SMS.
   (ℤ "ON")
  - "ON": Beep is heard.
  - "OFF": Beep is canceled.
- 6 Returns to the Hands-Free Control screen.
- 7 Returns to the "Hands Free Setup 1" screen.
- 8 Sets whether to use cell-phone phonebook, outgoing calls list and incoming calls list. ( "ON") "ON": Yes.
  - "OFF": No.

(;;;;)

- 9 Sets the SMS function. ( "ON")
   "ON": Use SMS function.
  - "OFF": SMS not available.
- Registers the voice to select phone number category with voice recognition.
   See <Key Word Voice Recognition> (page 53).
- Registers the phone number to Hands Free Control screen preset button.
   See <Phone Number Preset> (page 54).
- 12 Returns to the Hands-Free Control screen.
- 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.
- Select the speaker which is further from the microphone in order to prevent howling or echoes.

#### **Voice Recognition**

Registers voice for voice recognition in Phonebook. Up to 35 voices can be recorded in one cell-phone.

#### 1 Select the name to register

Go through the procedure of <Calling by Phonebook> (page 48).



1 Selects a name.

"REC" turns on for data with voice for voice recognition already registered.

#### 2 Display the voice registration screen



#### 3 Utter the voice to register (1st try)



- 2 Registers the voice.
- 3 Cancels voice registration.

Utter within 2 seconds after the Beep.

#### 4 Utter the voice to register (2nd try)





- A message is displayed if the voice is not recognized. Read the message for the further operation.
- Repeat from 1st try if the voice is different from the 1st try.

#### **Key Word Voice Recognition**

Registers the voice to select the Phone number category by Voice Recognition.

#### 1 Display the Key Word List screen

Display the "Hands Free" screen and touch [Setup]. See <Control Screen Function> (page 45).



#### 2 Select the Phone number category to register



- Selects the Phone number category. "REC" turns on for data with voice for voice recognition already registered.
- 2 Registers voice for the selected Phone number category.

- 3 Plays voice registered for the selected Phone number category.
- Deletes voice registered for the selected Phone number category. Touch to display the confirmation screen. Touch [YES] to delete or [NO] to cancel.
- 5 Returns to the Hands-Free Set Up screen.

#### **3** Display voice registration screen

Key Word List	SMS	DL	HOLD	Ψiil	Sauto 💷
<b>▼</b> REC General					

#### 4 Utter the voice to register (1st try)



- 6 Registers the voice.
- 7 Cancels voice registration.

Utter within 2 seconds after the Beep.

5 Utter the voice to register (2nd try)

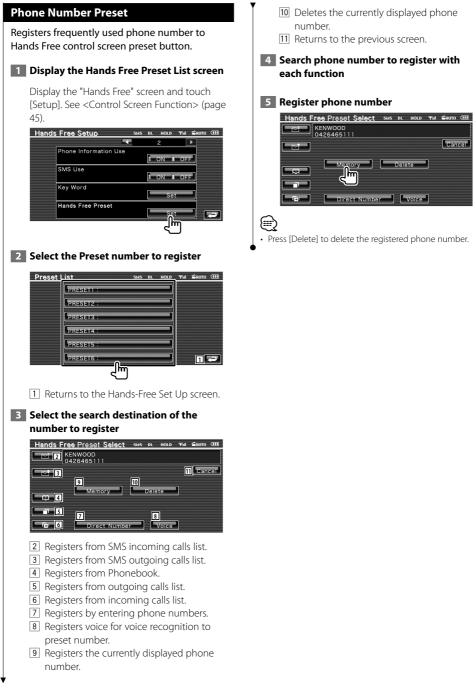


#### 6 End voice registration



<sup>3</sup> 

- A message is displayed if the voice is not recognized. Read tha message for the further operation.
- Repeat from 1st try if the voice is different from the 1st try.



#### SMS (Short Message Service) Uses SMS function. 1 Display the SMS Select screen Hands Free AS DL HOLD 🕬 📽 AUTO 🖽 KENWOOD 0426465111 P2 Setup Direct Number Voice 2 Select a function SMS Select SMS DL HOLD Yul SAUTO 🖽 1 🖼 Received Message List 2 🖾 Sent Message List 3 ⊏Ü Draft SMS Download... 4 Download 5 🗢 1 Displays received message list. 2 Displays sent message list. 3 Displays the Message screen. If there is an unfinished message, the button will be active. 4 Retrieves SMS messages from the cellphone. 5 Returns to the Hands Free screen. 3 Select message to display Received Message List SMS DL HOLD YIII SAUTO 🖽 6 6 0123456789 7 \_≡Џѕмѕ abcde 0123456789 8 abcde 0123456789 9 DISP abcde 0123456789 abcde 0123456789 8 🗸 P hm 6 Calls the number in the selected message. 7 Creates a new message for the selected message. 8 Scrolls the list.

9 Displays the selected message.

#### SMS Message screen



- 10 Calls the number in the selected message.
- Creates a new message for the selected message.
- 12 Scrolls the message.
- 13 Returns to the previous screen.

#### 4 Create a message



- 14 Moves the cursor.
- 15 Displays remaining number of characters allowed.
- 16 Enters character.
- 17 Changes keyboard character type.
- 18 Sends the message.
- Sets the key layout of the character buttons. abc : Alphabetical key layout. qwe : Qwerty key layout.
- 20 Enters space.
- Erases the entered character.
   If pressed more than 1 second, all the input characters are erased.
- 22 Returns to the previous screen.

You can set up various receiver parameters.

#### Setup Menu

Setup Menu

Displays the Setup menu to set various functions.

### 1 Display the control screen of any source A Touch any source button on the "Source Select" screen. 2 Display the Setup Menu DVD CD 3 Select the setup item Setup 1 Audio Setup **A** 2 DVD Setup DivX(R) Setup System Setuc 2 AV Interface 1 The selected setup screen appears. 2 Scrolls the setup menu. (;;;) · [Audio Setup] and [AV Interface] options can be locked. The key mark (a) is displayed in reverse video for the locked option. See <Setup Memory> (page 77).

#### **Audio Setup**

You can setup a speaker network, etc.

#### 1 Display the Audio SETUP screen

Touch Audio Setup in the "Setup Menu" screen (page 56).

### E

- [Audio Setup] cannot be selected under the following conditions:
  - When no source is selected.
  - When dual zone function is set to on. See <Zone Control> (page 80)

#### 2 Setup each item



- 1 Selects the speaker to set the crossover. See <Crossover Network Setup> (page 57).
- Sets the availability of subwoofers. This can be selected only when Preout is set to "Subwoofer". See <System Setup> (page 60).
- Selects the type of front speakers.
   "Standard": Setup for general diameter speakers
  - "Narrow": Setup for small diameter speakers
  - "Middle": Setup for middle diameter speakers
  - "Wide": Setup for large diameter speakers
- Switches to the crossover setup screen.
   See <Crossover Network Setup> (page 57).

#### **Crossover Network Setup**

You can set a crossover frequency of speakers.

#### **1** Select the speaker to set the crossover



- 1 Sets the High Pass Filter of the front speaker.
- 2 Sets the High Pass Filter of the rear speaker.
- 3 Sets the Low Pass Filter of the sub woofer.
- 4 Switches to the crossover setup screen.

#### 2 Display the Crossover setup screen



#### 3 Set the crossover



- Sets the cross over frequency.
   When front speaker or rear speaker is selected in step 1: High Pass Filter adjustment
  - When Subwoofer is selected in step 1 : Low Pass Filter adjustment
- 6 Sets the sub woofer phase. (Only when "Subwoofer" is set to "ON" in Audio Setup and "LPF SUB FREQ" is set to other than "Through")
- 7 Returns to the "Audio Setup" screen.

#### DVD Setup

You can set up the DVD play.

#### 1 Display the DVD Setup screen

Touch DVD Setup in the "Setup Menu" screen (page 56).

#### 2 Setup each item

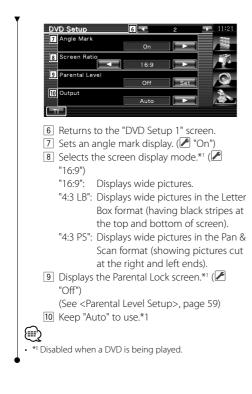


- 1 Moves to the "DVD Setup 2" screen.
- Selects a disc menu language.\*1 (See <Language Setup>, page 58)
- Selects a subtitle language.\*1 (See <Language Setup>, page 58)
- Selects an audio language.\*1 (See <Language Setup>, page 58)
- Sets the dynamic range.\*1 (𝒴 "Wide")
   The dynamic range is reduced by changing from "Wide" to "Normal" and from "Normal" to "Dialog". "Dialog" makes the total sound volume becomes larger as compared with "Wide" and "Normal", allowing you to listen to the movie's dialog more clearly.
   This is effective only when you are using a

Dolby Digital software. The operation is available during the play stop mode.



#### Setup Menu



#### Language Setup

Selects a language you use for the speech and menus.

#### 1 Select the language item to set

See <DVD Setup> (page 57) and select [Menu Language], [Sub Title Language] or [Audio Language].



#### 2 Display the Language Setup screen



- 1 Enters a language code.
- 2 Cancels the language setup and returns to the "DVD Setup 1" screen.
- 3 Sets the original audio language. (It appears during Audio Language setup.)
- 4 Sets the language and returns to the "DVD Setup 1" screen. (It appears after you have entered a language code.)
- 5 Clears the language code.

#### 3 Enter a language code

See <DVD Language Codes> (page 88) and select the desired language.

#### 4 Set the language you use



#### **Parental Level Setup**

#### Sets a parental level.

#### Display the Parental Level code number screen

See <DVD Setup> (page 57) and touch [Parental Level].



#### 2 Enter the code number

Parental	Pass	11:21
	****	
1		2 Cancel
	4 5 6	3 Level5
	7 8 9	4 Enter
	0	
-		5
ΤL		

- 1 Enters a code number.
- 2 Cancels the current setup and returns to the "DVD Setup 2" screen.
- 3 Indicates the present parental lock level.
- 4 Determines the code number and displays the Parental Level setup screen.
- 5 Clears the code number.

#### 

- The number you enter first is set as your code number.
- You can clear the code number by pressing the Reset button.

#### **3** Display the Parental Level Setup screen



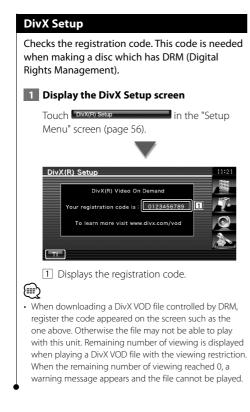
4 Select a parental level and complete the setup



- 6 Selects a parental level.
- 7 Complete the parental level setup and returns to the "DVD Setup 2" screen.

#### (;;;;)

- If a disc has higher parental lock level, you need to enter the code number.
- The parental lock level varies depending on a loaded disc.
- If a disc has no parental lock, anybody can play it back even when you have set the parental lock.



#### System Setup

You can set up the system parameters.

#### 1 Display the System Setup screen

Touch System Setup Menu" screen (page 56).

#### 2 Setup each item



- 1 Moves to the "System Setup 2" screen.
- 2 Turns the key touch tone On or Off. ( "ON")
- ④ Selects a remote control signal. ( "ON") When turned "OFF", the remote control of TV reception is rejected.
- 5 Sets a music CD playback. (
  - "1": Automatically recognizes and plays back an Audio file disc, a DVD or a music CD.
  - "2": Forcibly plays back a disc as a music CD. Select "2" if you wish to play a music CD having a special format or if you cannot play a disc in the "1" position.



- You cannot play an Audio file/VCD disc in the "2" position. Also, you may not play some music CDs in the "2" position.
- · Your setup is disabled when the disc is being played.





- 6 Returns to the "System Setup 1" screen.
- 7 Moves to the "System Setup 3" screen.
- 8 Sets the button illumination color.
   See <Panel Color Coordinate> (page 61).
- When set to "ON", the illumination color of the screen and buttons changes one after another.



- 10 Returns to the "System Setup 2" screen.
- [1] Moves to the "System Setup 4" screen.
- 12 Sets the Preout output. (Settable only when in Standby mode)

"Rear" : Rear sound is output.

"Subwoofer" : Subwoofer sound is output. 3 Sets the function of the [NAV] button.

- "V. OFF": Press the [NAV] button for more than 1 second to turn the display off.
- "R-CAM" : Press the [NAV] button for more than 1 second to switch to rear view.





14 Returns to the "System Setup 3" screen.

 Selects a picture display time. ( "Middle") The Display of a JPEG picture is changed. ("Short", "Middle", "Long")

#### Panel Color Coordinate

Sets the screen and button illumination color.

1 Display the Panel Color Coordinate screen



See <System Setup> (page 60).

#### 2 Select a color

1 anel Colc	r Coordin	ate		11:21
Blue	Purple	Sky Blue	Aqua Biue	Yellow
Green	Amber	Red	Pink	White
Pre:	set 1	Preset 2	Pre:	set 3
2 Panel Co TI	lor RGB Cod	ordinate	Se 3	-

- 1 Sets to the touched color.
- 2 Sets and registers favorite color.
- 3 Returns to the "System Setup 2" screen.

#### To register your original color

#### 1 Start the RGB coordinate

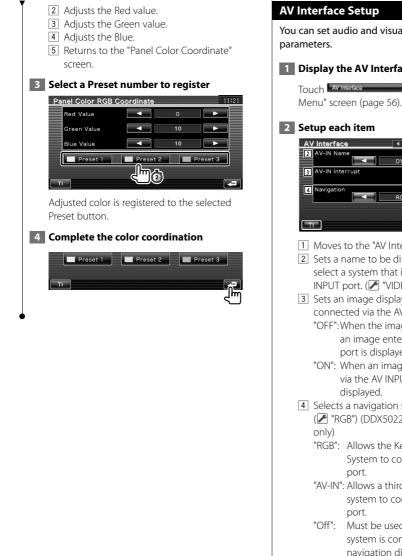
Prese	tī 🗌	Preset 2		Preset 3
Panel Colo	r RGB Coor	dinate	)	Set
				վերյ

#### 2 Adjust the each color value

Panel Color RG	3 Coordinate		11:	21
Red Value	2	0		
Green Value	<u>س</u> اح 🗉	10		
Blue Value	4	10		
Preset 1	Preset 2		Preset 3	
ТІ			5 🔺	-

1 Selects a preset number to register.

#### Setup Menu



#### **AV Interface Setup**

You can set audio and visual (AV) interface

#### 1 Display the AV Interface screen

Touch AV Interface	_	l in	the	"Setup	
Menu" screen (nade 56)					



- 1 Moves to the "AV Interface 2" screen
- 2 Sets a name to be displayed when you select a system that is connected via the AV INPUT port. ( VIDEO")
- 3 Sets an image display of the system that is connected via the AV INPUT port. ( "OFF": When the image source is switched,
  - an image entered via the AV INPUT port is displayed.
  - "ON": When an image signal is entered via the AV INPUT port, this image is displayed.
- 4 Selects a navigation system connection. ( RGB") (DDX5022/DDX5022Y/DDX52RY
  - "RGB": Allows the Kenwood's Navigation System to connect via the AV INPUT port.
  - "AV-IN": Allows a third-party navigation system to connect via the AV INPUT port.
  - "Off": Must be used if no navigation system is connected. (The navigation display is cancelled when the AV source is switched.)



AV Interface	5 🖪	2	▶ 61:21
7 AV-OUT	DVD		
8 AV-OUT Graphic Out	put Through	Black	- <b>-</b>
9 R-CAM Interrupt			à
10 R-CAM Mirror		DN I OFF	
	1	DN 🛛 OFF	

- 5 Returns to the "AV Interface 1" screen.
- 6 Moves to the "AV Interface 3" screen.
- ⑦ Selects an AV source to be output at the AV OUTPUT port. ( AV-IN")

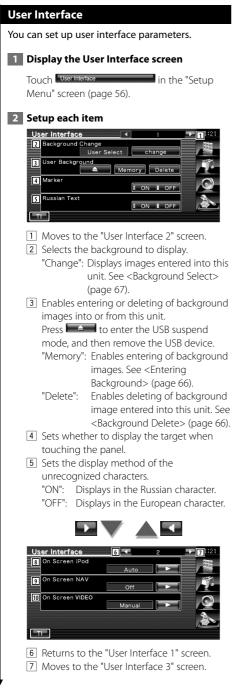
(iiii)

- When in DVD source, "AV-OUT" cannot be set to USB. Or, when in USB source, "AV-OUT" cannot be set to DVD.
- If "AV-OUT" is set to DVD or USB, the same source video or control screen as the front monitor is displayed in the rear monitor.
- If the front source is switched from DVD (or USB) to another source, the rear source is also switched to the same source as front. In this case, displaying the navigation screen in front monitor allows the rear source to return to the DVD (or USB). Use the easy control buttons to operate the front source.
  - 8 Sets output of operation screen such as control screen to AV-OUT. Operation screen is not output when set to "Black". ( Through")
  - 9 Sets a method to switch to the rear view camera video display. ( "OFF")
    - "ON": Switches to the rear view camera video display when engaging the shift knob of car to "Reverse".
    - "OFF": Switches to the rear view camera video display when engaging the shift knob of car to "Reverse" and then pressing the [NAV] button for more than 1 second.
  - You can flip the left and right of the rear view camera video display. Set to "ON" and the the rear view will be displayed left and right in mirror image on the screen.
     () "OFF")





- 11 Returns to the "AV Interface 2" screen.
- - "Front L": Uses the front left side speaker for voice guidance.
  - "Front R": Uses the front right side speaker for voice guidance.
  - "Front LR": Uses both front speakers for voice guidance.
- 13 Adjusts the volume for voice guidance of the navigation system. ( "21")
- Mutes the volume during voice guidance of the navigation system. ( P "ON") When turned "ON", the volume level drops for voice guidance.
- 15 Sets the guide display method of the Navigation system. ( Image "ON") (DNX5220BT/ DNX5220 only)
  - "ON": Pops up the guide.
  - "OFF" : Guide is not displayed.



8 Sets an on-screen display of the iPod Playback screen. ( rauto")

"Auto": Information is displayed for 5 seconds when updated.

"Manual": Information is displayed when you touch on the screen.

 Sets an on-screen display of the navigation screen. ( "Off")

"Auto": Information is displayed for 5 seconds when updated.

"Off": Information is not displayed.

Sets an on-screen display of the video playback screen. ( Mathematication "Auto")

"Auto": Information is displayed for 5 seconds when updated.

"Manual": Information is displayed when you touch on the screen.



User Interface	11 <b>-</b>	3	121:21
13 On Screen DVD	<b>A</b>		
	Auto		
14 On Screen TV	Auto		
15 On Screen USB	Manual		
	Manual		

- [1] Returns to the "User Interface 2" screen.
- 12 Moves to the "User Interface 4" screen.
- I3 Sets an on-screen display of the DVD Playback screen. ( "Manual")

"Auto": Information is displayed for 5 seconds when updated.

"Manual": Information is displayed when you touch on the screen.

Id Sets an on-screen display of the TV screen.
 ( Image: "Auto") (with the optional accessory TV tuner connected only)

"Auto": Information is displayed for 5 seconds when updated.

"Manual": Information is displayed when you touch on the screen.

- 15 Sets an on-screen display of the USB screen. (☑ "Manual")
  - "Auto": Information is displayed for 5 seconds when updated.
  - "Manual": Information is displayed when you touch on the screen.





- 16 Returns to the "User Interface 3" screen.
- 17 Sets whether to display the name of the

right side of the menu screen.

 Registers the source displayed in the favorite source screen.
 See <Direct Source ButtonSetup> (page 65).

#### **Direct Source Button Setup**

Registers the source displayed in the favorite source screen.

1 Displays the Direct SRC button Setup screen



See <User Interface> (page 64).

#### 2 Select a preset button

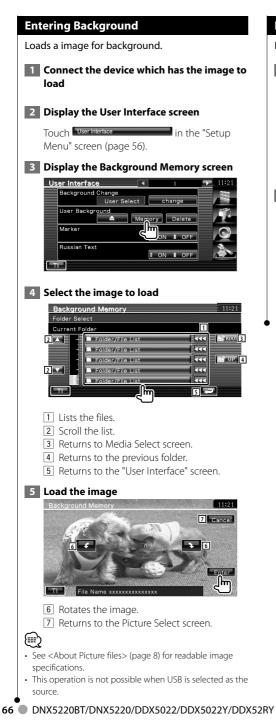


- 1 Selects the preset button to register.
- 2 Selects the source to register.
- 3 Scrolls the source button list.
- 4 Returns to the "User Interface 4" screen.

#### 3 Select a source to register



The selected source is registered to the preset button.



#### **Background Delete**

Deletes the background image.

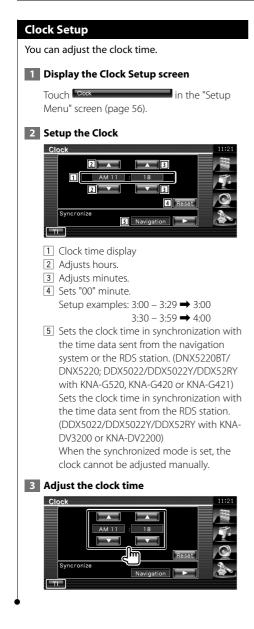


#### 2 Confirm

Background Delete		11:21
Woud you links to delete Background?	1	

1 Returns to the Pictrue Select screen.

#### **Touch Panel Adjustment Background Select** Selects a image for background. You can adjust the touch panel operations. 1 Select Background Change screen 1 Display the Touch panel Adjustment screen User Interface Background C Touch Touch in the "Setup User Select User Backg Menu" screen (page 56). Men Marker 2 Start Touch panel setup Russian Text ON OFF Touch Touch Panel Adjust TI 2 Select a image for background Background Change 11:21 Cancel 2 TI Jhm 3 Adjust the Touch panel Enter Touch Panel Adjust **TI** 1 Returns to the initial background. 1 Cancel Reset 2 2 Returns to the original screen. **3** Set the image as the background Background Change 11:21 Cancel Follow the instruction on the screen and touch the center of $\bigoplus$ . 1 Cancels the adjustment and returns to the Touch Panel Adjust screen. 2 Resets to the initial status. TI



#### **Monitor Setup**

You can adjust the position, picture quality and the screen mode of the monitor.

### 1 Displaying the Monitor Setup screen

Touch	Monitor Setup	in the	"Setup
Menu"	screen (page 56).		

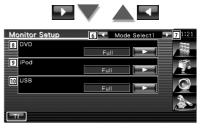
#### 2 Setup each item



- 1 Moves to "Mode Select 1" screen.
- 2 Brightness control
- 3 Contrast Control
- 4 Black Level Adjustment
- 5 Dimmer Mode Setup
  - "ON": The display dims.
  - "OFF": The display doesn't dim.
  - "SYNC": Turning the Dimmer function On or Off when the vehicle light control switch is turned On or Off.
  - "NAV-SYNC" (DNX5220BT/DNX5220 only): Turning the Dimmer function On or Off according to the Navigation Day/Night display setting.



 In this Screen Control screen, you can perform setups for the menu screen. Setups for videos such as DVD can be performed on the <Screen Control> (page 44).



- 6 Returns to the "Screen Adjust" screen.
- 7 Moves to the "Mode Select 2" screen.

8 Selects a screen mode of the DVD playback screen.

You can select any of the following screen mode.

"Full", "Just", "Zoom", "Normal"

- Selects a screen mode of the iPod VIDEO playback screen.
   You can select any of the following screen mode.
   "Full", "Just", "Zoom", "Normal"
- 10 Selects a screen mode of the USB playback screen.

You can select any of the following screen mode.

"Full", "Just", "Zoom", "Normal"





- [1] Returns to the "Mode Select 1" screen.
- 12 Selects a screen mode of the TV screen. You can select any of the following screen mode.

"Full", "Just", "Zoom", "Normal"

 Selects a screen mode of the VIDEO playback screen.
 You can select any of the following screen mode.
 "Full", "Just", "Zoom", "Normal"

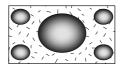
 Selects a screen mode of the rear view camera (R-CAM) screen. You can select any of the following screen mode.

"Full", "Just", "Zoom", "Normal"

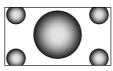


- When you select the Menu or Navigation, the display is shown in the full-size display mode automatically. The screen mode of these displays cannot be changed.
- The picture quality can be set for each source.

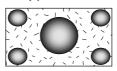
#### Full picture mode ("Full")



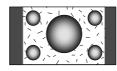
#### Zoom picture mode ("Zoom")



Justify picture mode ("Just")



#### Normal picture mode ("Normal")



**Security Code Setup** You can set a security code to protect your receiver system against theft. (Bala) When the Security Code function is activated, it cannot be released. Note that your Security Code is in the 4 digit number entered in your "Car Audio Passport" in this package. 1 Display the Security Code Setup screen Touch Security Setup Menu" screen (page 56). Security 1 Security Code Set 2 S I OF Security code is fixed and cannot be changed 2 Turns the SI function on or off. If turned "ON", the burglar alarm lamp flashes when the vehicle ignition is off. (🖊 "ON") 2 Start Security Code setup Security Security Code Set Security code is f (;;;;) If you have already completed the code registration, you cannot touch 3 Enter a security Code Code Set \*\*\*\* 5 8 0

in the "Setup 1 Displays the Security code input screen.



Input four-digit number.

TI

#### 4 Register your security code



#### 5 Reenter the security code

Reenter the same security code as that you have entered in Step 3 for confirmation.



· If you enter a different security code, the screen returns to Step 3 (for the first code entry).

#### 6 Register the security code again



Now, your security code is registered. If you press the Reset button or if you disconnect your receiver from the battery after the code registration, you need to enter the registered security code.

	he Reset button or if ed the Receiver from	iPod Setup
attery		Performs setup when u
Enter the correct	security code	1 Display the iPod S
Code Set	11:21	Touch Pod Setup
	2 3 Cancel	Menu" screen (page
4	5 6 8 9 Enter	2 Setup each item
		AudioBook Speed     Slow     Wide Screen
You must enter the you have entered i	e same security code as that n Step 3.	
Enter the security	y code	
	8 9 Enter 0 Clear	1 Sets the Audio b 2 Sets Wide Screen
Now, you can use y	/our Receiver.	• "Wide Screen" cannot be s
€ f you enter an incorrect ⁄our Receiver for a while	security code, you cannot use	
Incorrect entry count	Receiver inoperable time	
1		
1	- 5 minutes	
1 2 3	5 minutes 1 hour	

using iPod.

#### etup screen

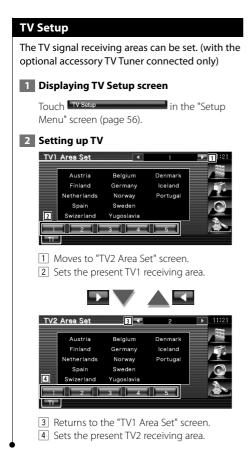
in the "Setup 56).



book playback speed. n on or off.

set while the iPod is connected.

#### Setup Menu



#### **RDS Setup**

You can set RDS related parameters.

#### 1 Display the RDS Setup screen

Touch RDS Setup Menu" screen (page 56).

#### 2 Setup each item



- 1 Moves to "RDS Setup 2" screen.
- 2 Sets a news bulletin interrupt time.
- 3 Turns the Alternative Frequency function On or Off. ( Image "ON")
- 4 Turns the Region Restriction function On or Off. ( "ON")



- 6 Returns to the "RDS Setup 1" screen.
- Selects a display language for the PTY function.

### **Bluetooth Setup**

Registers and selects Bluetooth unit.

### 1 Display the Bluetooth Setup screen

Touch Bluetooth Setup in the "Setup

Menu" screen (page 56).

### 2 Setup each item



- 1 Sets cell-phone for Hands Free and Audio player for Bluetooth Audio.
- 2 Sets the PIN code of this unit (DNX5220BT only) or KCA-BT200 to enter when registering (pairing) from the cell-phone or audio player side.

### **Registering Bluetooth Unit**

Registers the Bluetooth unit to be connected.

### **1** Display the Connect Device List screen



### 2 Search for a Bluetooth unit



- 1 Displays the registered Bluetooth unit. Displays the busy service in red. Displays the available service in gray.
- 2 Scrolls the name of the Bluetooth unit.
- 3 Searches for Bluetooth unit.
- Registers Bluetooth unit that cannot be registered by normal register (paring) operation.
- 5 Returns to the previous screen.

### Ē

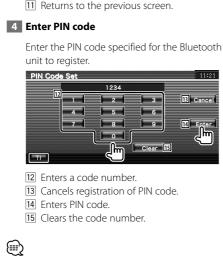
 A new device cannot be registered if there are 5 registered Bluetooth units. Delete unnecessary registration. See <Deleting Bluetooth Unit> (page 76).

### 3 Select the Bluetooth unit to register

	t Device List	11:21
Device S	earching · · ·	
	6	7 8
10 🔺	P902	<b>⋖</b> ⋖ Cancel
	112233445566	search
	KCA-BT100	444 9
10 🗸	123456789012345678901234	444
	ABCDEFGHIJKLMNOPQRSTUVWX	444

- 6 Displays the searched Bluetooth unit.
- 7 Scrolls the name of the Bluetooth unit.
- 8 Cancels searching of Bluetooth unit.
- 9 Starts search.
- 10 Scrolls.





- You can also register from the Bluetooth unit side. For the PIN code necessary for registration, see <Registering Bluetooth Unit PIN Code> (page 74).
- If the error message appears even though the PIN code is correct, try <Registering Special Bluetooth Unit> (page 75).

### **Registering Bluetooth Unit PIN Code**

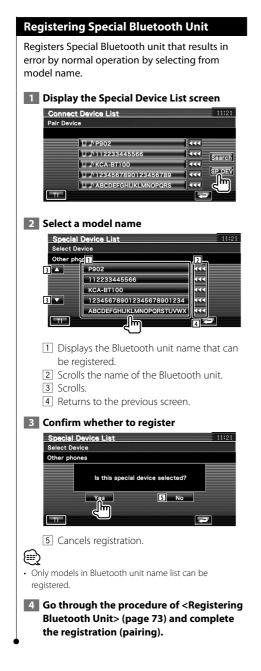
Sets the PIN code of this unit (DNX5220BT only) or KCA-BT200 to enter when registering (pairing) from the cell-phone or audio player side.

# 1 Display the Receiver PIN Code screen

### 2 Enter PIN code



- 1 Enters a code number.
- 2 Cancels registration of PIN code.
- 3 Enters PIN code.
- 4 Clears the code number.



### **Bluetooth Unit Connection**

Selects the Bluetooth unit to connect.

### **1** Display the Connect Device List screen



2 Select a registered Bluetooth unit



- 1 Displays the registered Bluetooth unit.
- 2 Scrolls the name of the Bluetooth unit.
- 3 Returns to the previous screen.

### 3 Select the service to use



- Connects/disconnects cell-phone to use for Hands Free.
- Connects/disconnects Audio player to use for Bluetooth Audio.
- 6 Deletes registration (pairing).
- 7 Returns to the previous screen.

### **Deleting Bluetooth Unit** Deletes the registered Bluetooth unit. 1 Display the Connect Device List screen Bluetooth Setup HFP Connect Device P902i A2DP Connect Device Non Connection SE Receiver PIN Code 1234 TI 2 Select a Bluetooth unit to delete Connect Device List 11:21 Pair Device 222 🔲 🔊 Р902 112233445566 Search 444 🛯 🔊 КСА-ВТ100 SP DEV ↓ 1234567890123456789 ABCDEFGHIJKLMNOPORS 444 <u>اللا</u> TI **3** Delete the Bluetooth unit Service Select P902i Connecting · · · Connection TEL(HFP) Non Connection Audio(A2DP) Remove llim TI 4 Confirm deleting of Bluetooth unit Service Select P902i **Device Remove** Is the device under the selection Removed No TI

### Software Information

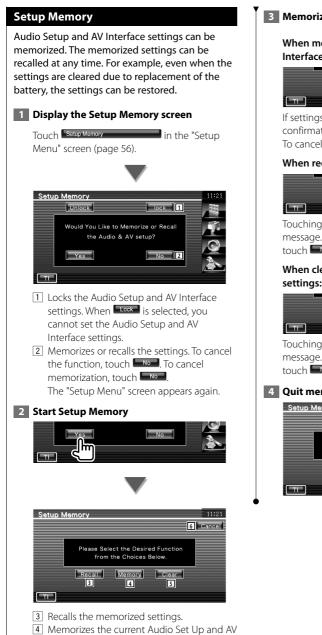
Checks the software version of this unit.

### 1 Display the Software Information screen



1 Displays the software version.

2 Uses for Bluetooth firmware update.



- Memorizes the current Audio Set Up a Interface settings.
- 5 Clears the currently memorized settings.
- 6 Returns to "Setup Memory" screen.

### **3** Memorize or recall the settings

# When memorizing the Audio Setup and AV Interface settings:

	Recall	Memory	Clear	
TF)		۳		

If settings have already been memorized, a confirmation message appears. Touch **eress**. To cancel memorization, touch **eress**.

### When recalling the memorized settings:



Touching the screen displays a confirmation message. Touch recalling, touch recalling, touch recalling.

# When clearing the currently memorized settings:



Touching the screen displays a confirmation message. Touch result. To cancel clearing, touch result.

### 4 Quit memorization/recalling of settings



Audio Control

### **Audio Control Menu**

Displays the Audio Control menu to set the sound effect function of this unit.

# 1 Display the control screen of any source

### 2 Display the Audio Control menu



### 3 Select the Audio Control item



1 Switches to the selected Audio Control screen.

### **Audio Control**

You can adjust the front/rear and right/left audio balance.

### 1 Display Audio Control screen

Touch Audio Control in the "Audio Control Menu" screen (page 78).

### 2 Set the each item



- 1 Moves to the "Audio Control 2" screen.
- 2 Adjust the front/back and left/right volume around the touched area.
- 3 Adjusts the right and left volume balance.
- 4 Adjusts the front and rear volume balance.
- 5 Turns the Loudness control function On or Off.

If turned "ON", high and low tones are automatically enhanced during low volume. Settable Only when zone function is set to Off. See <Zone Control> (page 80).

6 Displays the present source information. The stream (Dolby Digital, dts, Linear PCM, MPEG, MP3, WMA or AAC) is displayed.





- 7 Returns to the "Audio Control 1" screen.8 Adjusts the subwoofer volume.
- 78 DNX5220BT/DNX5220/DDX5022/DDX5022Y/DDX52RY

- Adjusts the volume of the present source based on the difference level of original volume.
- If you have increased the volume first, then reduced the volume using the "Vol. Offset", the sound generated if you suddenly switch to another source may be extremely loud.

### Equalizer Control

You can set up the equalizer.

### 1 Display Equalizer Control

Touch Equalizer in the "Audio Control Menu" screen (page 78).

### 2 Display the Equalizer screen



- 1 Selects an equalizer curve type. You can select any of the following equalizer curves.
  - "Natural"
  - "Rock"
  - "Pops"
  - "Easy"
  - "Top40"
  - "Jazz"
  - "User"

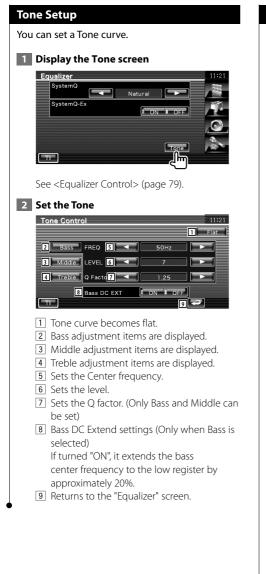


"User" can be selected after tone adjustment is carried out. See <Tone Setup> (page 80).

2 Selects items to be adjusted for tone curve setup.

If turned "OFF", only Level can be setup for tone curves.

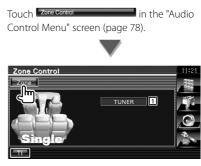
3 Displays the Tone curve setup screen. (page 80)



### Zone Control

You can set the front and rear audio source.

### 1 Display Zone Control



1 Displays the current source.

### 2 Set the Zone Control



- 2 Turns the Zone Function (that sets different source sounds for front and rear speakers) On or Off.
- Sets the front and rear audio source separately.
   (This button appears when the Zone

function is On.)

### 

- 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.
  - Adjusts the volume of the rear channel. (This button appears when the Zone function is On.)



- There are following limitations when zone function is set to "On".
  - There is no output from the subwoofer.
  - <Audio Setup> (page 56) and <Equalizer Control> (page 79) are not available.
- When "DVD" or "USB" is selected as the front source, the rear source can be selected from "Front" (same source as front), "iPod" or "VIDEO", etc. When the rear source is

set to "Front", "DVD" or "USB", the same source screen or control screen is displayed in the rear monitor. See <AV Interface Setup> (page 62).

## **Remote Controller**

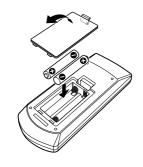
For DDX5022Y/DDX52RY : This unit can be operated using the Remote Controller supplied with this unit. For DNX5220BT/DNX5220/DDX5022 : Optional Remote Controller KNA-RCDV330 is designed for controlling this unit.

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

### **Battery installation**

/!\

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

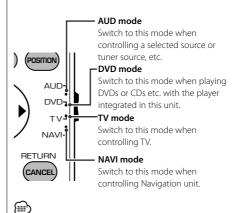


### 

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

### **Remote Controller mode switch**

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



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

### **Common operations (AUD mode)**

### Source switching

Switches to the source to be played.



### Volume control

Adjusts the volume.



### Volume attenuator

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



### **Dual Zone**

Switches the Dual Zone function ON and OFF.



### **Rear volume control**

Adjusts volume at rear when the Dual Zone function is ON.

Õ

### V.SEL

Switches to the navigation screen.



### Cursor key

Moves the cursor when displaying menu.



### ENTER Enters options.



### Hands-free communication

Enters the dialing method selection mode. When a call comes in, it answers the call.



### Function

Switches the function screen.



### MODE

Switches the screen mode. Screen mode changes each time you press this key.



### DVD/VCD/CD/Audio files (DVD mode)

### **Folder search**

Selects the folder to be played.



### Track search and file search

Selects the track or file to be played.



### Play/Pause

Pauses the track. Press again to resume playing.



### Stop

Memorizes the last point where the disc stopped. When pressed again, the last point is deleted.



### **Direct search**



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

### DVD

Title number
Chapter number
Play time
Item number*
Cancel

\* You may not be able to use this function with some discs or scenes.

### CD

Track number

Play time

Cancel

### Audio files

Folder number File number Cancel

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

Track number

Cancel

### VCD 2.X (PBC ON)

Scene number Number Cancel

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

### Numeric keypad



- Specify the number to search in direct search.
- Press (1) (2000) to fast forward/backward. Switches the fast forward/backward speed each time you press this key.
- Press Gen Gen to slow forward/backward.
   Switches the slow playback speed each time you press this key.

### **DVD Top Menu**

Returns to the DVD top menu.



### DVD Menu

Displays the DVD menu.

Turns the playback control on or off while playing VCD.



### SUBTITLE

Switches the subtitle language.



### ZOOM

Switches the zoom ratio each time you press this key.

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### **Picture Angle**

Switches the picture angle each time you press this key.



### AUDIO

Switch Voice Language

Switches the voice language each time you press this key.



### TV (TV mode)

### Switching Band/Video

It switches between the station of the TV band to receive and video input.



### **Channel Selection**

The TV channel to receive is selected.



Direct tuning (NTSC TV type only)



Press this key first, and then specify the station to receive with the numeric keypad.

Example: In case of Channel 6 (2-digit)



### Numeric keypad



- The number of the memorized station is selected. (1 6mp)
- Press the direct tuning key first, then specify the channel of the station to receive.

### Radio (AUD mode)

### **Band switching**

Switches to bands received by the unit.



### Station selection

Switches to broadcast stations received by the unit.



### **Direct tuning**

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



Example: 92.1MHz (FM)

0 8m 1 0

### Numeric keypad



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

### NAVI (NAVI mode)

### Joystick

Scrolls the map, or moves the cursor.



### ENTER

Performs the selected function.



### ZOOM

Zooms in or out the navigation map.



**MENU** Displays Main menu.



### CANCEL

Displays previous screen.



**POSITION** Displays the current position.



### ROUTEM

Displays Route Option menu.

### VIEW

Switches between 2D and 3D map displays.



### VOICE

Plays Voice guidance.



### MAP DIR

Switches between the heading up navigation and north up navigation map displays.



# DVD Language Cod<u>es</u>

Code	Language
аа	Afar
ab	Abkhazian
af	Afrikaans
am	Amharic
ar	Arabic
as	Assamese
ау	Aymara
az	Azerbaijani
ba	Bashkir
be	Byelorussian
bg	Bulgarian
bh	Bihari
bi	Bislama
bn	Bengali, Bangla
bo	Tibetan
br	Breton
са	Catalan
CO	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
gu gli	Galician
	Guarani
gn	
gu ha	Gujarati Hausa
he	Hebrew
hi	Hindi
hr	
	Croatian
hu	Hungarian
hy	Armenian
ia	Interlingua
ie	Interlingue
ik	Inupiak
id	Indonesian

Code	Language
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
00	Occitan
om	(Afan) Oromo
or	Oriya
ра	Punjabi
pl	Polish
ps	Pashto, Pushto
pt	Portuguese
qu	Quechua
rm	Rhaeto-Romance
rn	Kirundi
ro	Romanian
ru	Russian
rw	Kinyarwanda
sa	Sanskrit
sd	Sindhi
sg sh	Sangho Serbo-Croatian

Code	Language
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
W0	Wolof
xh	Xhosa
уо	Yoruba
zh	Chinese
ZU	Zulu



# When the unit fails to operate correctly, the cause of the failure appears on the display.

### Protect :

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 then push the Reset button (page 6).

### 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. At such times this message will appear.

Use the unit again after reducing the temperature inside the vehicle.

### **Hold Error :**

Activation of the protective circuit when the temperature inside the disc changer is higher than 60 degrees Celsius stops the disc changer from operating. At such times this message will appear.

➡ Use when the temperature at the site where the disc changer has been fitted has dropped.

### 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.

### **Read Error :**

Disc is quite dirty.

Clean the disc, referring tot he section on <Handling discs> (page 6).

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.

### Parental level Error:

The disc you wanted to play has a higher level than the parental level you set.

### Error 07-67:

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

 Push the unit's Reset button. If the "Error 07–67" message does not disappear, see your nearest Kenwood dealer.

### No Device (USB device)/Disconnected (iPod):

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

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

### No Music:

The connected USB device contains no playable audio file.

Media was played that doesn't have data recorded that the unit can play.

### USB Device Error!!:

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

➡ Check the USB device.

Some trouble may have occurred to the connected USB device.

 Change the source to any source other than USB. Remove the USB device.

### Authorization Error:

Connection to the iPod has failed.

Remove the iPod and then reconnect it.

The unit does not support the iPod.

 See <iPod that can be connected to this unit> (page 7).

### Update your iPod:

The iPod's software is an older version which the unit can not support.

 Confirm that the software for the iPod is the latest version. See <iPod that can be connected to this unit> (page 7).

### Help? Troubleshooting

Some functions of this unit may be disabled by some settings made on this unit.

### • Cannot set up the subwoofer.

- · Cannot set up subwoofer phase.
- No output from the subwoofer.
- Cannot set up the low pass filter.
- Cannot set up the high pass filter.
- Subwoofer is not set to On. 
  « <Audio Setup> (page 56)
- Preout is set to "Rear". IN <System Setup> (page 60)

### I Cannot set up the subwoofer phase.

- Subwoofer is not set to On. 
  «<Audio Setup>
  (page 56)
- Low pass filter is set to Through. 
   Crossover Network Setup> (page 57)
  - -----
- Cannot select the output destination of the subsource in the Dual zone.
  - Cannot adjust the volume of the rear speakers.

### Cannot play audio files.

- "CD Read" of <System Setup> (page 60) is set to "2".
- -----

### Cannot Folder select.

The Scan play or Random play function is enabled.

### Cannot perform Repeat play.

The PBC function is enabled.

### Cannot set up the equalizer.

- · Cannot set up the crossover network.
- The Dual zone function is enabled. 
   «
   Zone Control> (page 80)
- -----

# Cannot watch the source selected as AV-OUT in the rear monitor.

- A source control screen is displayed in front. <AV Interface Setup> (page 62)
- "AV-OUT Graphic Output" of <AV Interface Setup> is set to "Black".

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

### General

### The Touch Sensor Tone doesn't sound.

- ✓ The preout jack is being used.
- The Touch Sensor Tone can't be output from the preout jack.

### Tuner source

### Radio reception is poor.

- ✓ The car antenna is not extended.
- Pull the antenna out all the way.
- ✓ The antenna control wire is not connected.
- Connect the wire correctly, referring to the section on <INSTALLATION MANUAL>.

### Disc source

# The specified disc does not play, but another one plays instead.

- ✓ The specified disc is quite dirty.
- 🖙 Clean the disc.
- ✓ The disc is severely scratched.
- Inv another disc instead.

### Audio file source

# The sound skips when an Audio file is being played.

- ✓ The media is scratched or dirty.
- Clean the media, referring to the CD cleaning of the section on <Handling discs> (page 6).
- ✓ The recording condition is bad.
- Record the media again or use another media.

### Navigation

# The touch panel control of the navigation system does not work.

- ✓ Navigation software is not the latest version.
- Update the navigation software. For how to update the software, refer to the instruction manual of the navigation unit.

## Specifications

### **Monitor section**

Picture Size

: 6.1 inches (diagonal) wide : 136.08 mm (W) x 71.96 mm (H)

Display Sytem : Transparent TN LCD panel

Drive System : TFT active matrix system

Number of Pixels : 336,960 (480H x 234V x RGB)

Effective Pixels : 99.99 %

Pixel Arrangement : RGB striped arrangement Back Lighting

: Cold Cathode Fluorescent Tube

### **DVD** player section

D/A Converter : 24 bit

Audio Decoder : Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC Video Decoder

: MPEG1/ MPEG2/ MPEG4 (Divx)

Wow & Flutter : Below Measurable Limit

### Frequency Response

Sampling frequency; 96 kHz : 20 – 44,000 Hz Sampling frequency; 48 kHz : 20 – 22,000 Hz Sampling frequency; 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

### Sampling Frequency : 44.1/ 48/ 96 kHz

Quantifying Bit Number : 16/ 20/ 24 bit

### **USB** interface section

USB Standard : USB 1.1/ 2.0

File Sytem : FAT 16/ 32

Maximum Power Supply Current : 500 mA

D/A Converter

Audio Decoder : MP3/ WMA/ AAC

Video Decoder

: MPEG1/ MPEG2/ MPEG4 (Divx)

### FM tuner section

Frequency Range (50 kHz) : 87.5 MHz – 108.0 MHz Usable Sensitivity (S/N : 26 dB) : 0.7 μV/ 75 Ω Quieting Sensitivity (S/N : 46 dB) : 1.6 μV/ 75 Ω

Frequency Response (± 3.0 dB) : 30 Hz – 15 kHz

S/N Ratio (dB) : 65 dB (MONO)

Selectivity (± 400 kHz)  $: \ge 80 \text{ dB}$ 

Stereo Separation : 35 dB (1 kHz)

### . 55 00 (1 101

### LW tuner section

Frequency Range (9 kHz) : 153 kHz – 281 kHz Usable Sensitivity : 45 µV

### MW tuner section

Frequency Range (9 kHz) : 531 kHz – 1611 kHz Usable Sensitivity : 25 μV

### **Video section**

Color System of External Video Input : NTSC/PAL External Video Input Level (mini jack) : 1 Vp-p/75  $\Omega$ External Audio Max Input Level (mini jack) : 2 V/ 25 k $\Omega$ Video Output Level (RCA jacks) : 1 Vp-p/75  $\Omega$ Audio Output Level (RCA jacks) : 1.2 V/ 10 k $\Omega$ Analog RGB input (DDX5022/DDX5022Y/DDX5022Y/DDX52RY only) : 0.7 Vp-p/75  $\Omega$ 

### Audio section

 $\begin{array}{l} \mbox{Maximum Power (Front & Rear)} \\ : 50 \ \mbox{W} \times 4 \\ \mbox{Full Bandwidth Power (Front & Rear)} \\ \mbox{(PWR DIN 45324, +B=14.4V)} \\ : 30 \ \mbox{W} \times 4 \end{array}$ 

**Preout Level (V)** : 2 V/ 10 kΩ

Preout Impedance : 600  $\Omega$ 

Speaker Impedance  $: 4 - 8 \Omega$ 

Tone action

 $\begin{array}{l} Bass: 100 \text{ Hz} \pm 10 \text{ dB} \\ \text{Middle}: 1 \text{ kHz} \pm 10 \text{ dB} \\ \text{Treble}: 10 \text{ kHz} \pm 10 \text{ dB} \end{array}$ 

### Bluetooth section (DNX5220BT only)

### Technology

: Bluetooth Ver.1.2 Certified

### Frequency

: 2.402 - 2.480 GHz

### Output Power

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

### Profile

HFP (Hands Free Profile), SPP (Serial Port Profile), HSP (Headset Profile), A2DP (Advanced Audio Distribution Profile), AVRCP (Audio/Video Remote Control Profile), OPP (Object Push Profile), PBAP (Phonebook Access Profile), SYNC

```
(Synchronization Profile)
```

### Navigation section (DNX5220BT/DNX5220 only)

### Receiver

: High-sensitivity GPS receiver

Reception Frequency : 1575.42 MHz (C/A code)

Acquisition Times Cold : < 38 seconds Factory Reset : < 45 seconds (On average for a stationary receiver with a clear view of the sky)

Accuracy Position : < 10 meters typical Velocity : 0.05 m/sec. RMS

Position Method

### Antenna

: External GPS antenna

### General

Operating voltage : 14.4 V (10.5 - 16 V allowable) Current Consumption : 15 A (Max) Dimensions (W × H × D) : 182 × 112 × 158 mm Operational Temperature Range : -10 °C - +60 °C Storage Temperature Range : -20 °C - +85 °C Weight (DNX5220BT/DNX5220) : 1.90 kg Weight (DDX5022/DDX5022Y/DDX52RY) : 1.87 kg

Specifications subject to change without notice.

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.

### The marking of products using lasers (Except for some areas)

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.

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



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

This Product is not installed by the manufacturer of a vehicle on the production line, nor by the professional importer of a vehicle into an EU Member State.

### About DivX

DivX is a popular media technology created by DivX, Inc. DivX media Files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

### **About DivX Certified**

DivX Certified products are officially tested by the creators of DivX and guaranteed to play all versions of DivX video, including DivX 6. Certified products qualify for one of several DivX Profiles that designate the type of video the product supports, from compact portable video to high-definition video.

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"DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.

### DNX5220/DDX5022/DDX5022Y/DDX52RY:

### Declaration of Conformity with regard to the EMC Directive 2004/108/EC DNX5220BT: Declaration of Conformity with regard to the R&TTE Directive 1999/5/EC

### Manufacturer:

Kenwood Corporation 2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

### EU Representative's:

Kenwood Electronics Europe BV

Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

### English

Hereby, Kenwood declares that this unit DNX5220BT is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

### Français

Par la présente Kenwood déclare que l'appareil DNX5220BT est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Par la présente, Kenwood déclare que ce DNX5220BT est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.

### Deutsch

Hiermit erklärt Kenwood, dass sich dieser DNX5220BT in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. (BMWi)

Hiermit erklärt Kenwood die Übereinstimmung des Gerätes DNX5220BT mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)

### Nederlands

Hierbij verklaart Kenwood dat het toestel DNX5220BT in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Bij deze verklaat Kenwood dat deze DNX5220BT voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.

### Italiano

Con la presente Kenwood dichiara che questo DNX5220BT è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

### Español

Por medio de la presente Kenwood declara que el DNX5220BT cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

### Português

Kenwood declara que este DNX5220BT está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

### Polska

Kenwood niniejszym oświadcza, że DNX5220BT spełnia zasadnicze wymogi oraz inne istotne postanowienia dyrektywy 1999/5/EC.

### Český

Kenwood timto prohlasuje, ze DNX5220BT je ve shode se zakladnimi pozadavky a s dalsimi prislusnymi ustanoveni Narizeni vlady c. 426/2000 Sb.

### Magyar

Alulírott, Kenwood, kijelenti, hogy a jelen DNX5220BT megfelel az 1999/5/EC irányelvben meghatározott alapvető követelményeknek és egyéb vonatkozó előírásoknak.

### Svenska

Härmed intygar Kenwood att denna DNX5220BT stär I överensstämelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

### Suomi

Kenwood vakuuttaa täten että DNX5220BT tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

### Slovensko

S tem Kenwood izjavlja, da je ta DNX5220BT v skladu z osnovnimi zahtevami in ostalimi ustreznimi predpisi Direktive 1999/5/EC.

### Slovensky

Spoločnosť Kenwood týmto vyhlasuje, že DNX5220BT spĺňa zákldné požiadavky a ďalšie prislušné ustanovenia Direktĺvy 1999/5/EC.

### Dansk

Undertegnede Kenwood erklærer harved, at følgende udstyr DNX5220BT overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

### Ελληνικά

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Kenwood ΔΗΛΩΝΕΙ ΟΤΙ DNX5220BT ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

### Eesti

Sellega kinnitab Kenwood, et see DNX5220BT vastab direktiivi 1999/5/EC põhilistele nõudmistele ja muudele asjakohastele määrustele.

### Latviešu

Ar šo, Kenwood, apstiprina, ka DNX5220BT atbilst Direktīvas 1999/5/EK galvenajām prasībām un citiem tās nosacījumiem.

### Lietuviškai

Šiuo, Kenwood, pareiškia, kad šis DNX5220BT atitinka pagrindinius Direktyvos 1999/5/EB reikalavimus ir kitas svarbias nuostatas.

### Malti

Hawnhekk, Kenwood, Jiddikjara li dan DNXS220BT jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/ FC

### Українська

Компанія Kenwood заявляє, що цей виріб DNX5220BT відповідає ключовим вимогам та іншим пов'язаним положенням Директиви 1999/5/ЕС.

# **KENWOOD**