

# WINAUTO



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## User's Manual

DVD/CD/USB receiver JVC KW-AVX846 with Bluetooth

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# JVC



## DVD RECEIVER WITH MONITOR

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# KW-AVX846



# DIIX

Made for



iPod



iPhone



For canceling the display demonstration, see page 7.

For installation and connections, refer to the separate manual.

## INSTRUCTIONS

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

### **IMPORTANT FOR LASER PRODUCTS**

1. CLASS 1 LASER PRODUCT

2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (EN6)	<b>ATTENTION</b> RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FR)	<b>AVISO</b> RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	<b>VARNING</b> SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING. KLASS 1M, NÄR DENNA ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	<b>注意</b> ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学機器で直視 しないでください。 (JPN)	<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (EN3)
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### **WARNINGS: (To prevent accidents and damage)**

- DO NOT install any unit or wire any cable in a location where;
  - it may obstruct the steering wheel and gearshift lever operations.
  - it may obstruct the operation of safety devices such as air bags.
  - it may obstruct visibility.
- DO NOT operate the unit while driving. If you need to operate the unit while driving, be sure to look around carefully.
  - The driver must not watch the monitor while driving.
  - The driver must not put on the headphones while driving.
- Excessive sound pressure from earphones or headphones can cause hearing loss when you listen through earphones or headphones playing the rear source.



## Cautions on the monitor:

- The monitor built in this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with the sharp tip.  
Touch the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).
- When the temperature is very cold or very hot...
  - Chemical changes occur inside, causing malfunction.
  - Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

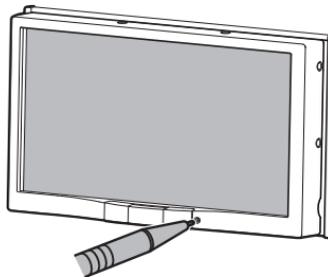
## For safety...

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

## Temperature inside the car...

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

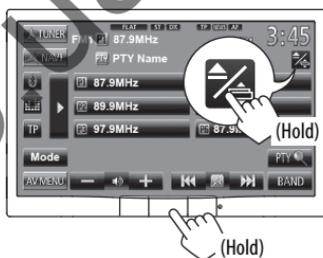
## How to reset your unit



- Your preset adjustments will also be erased (except the registered Bluetooth devices).

## How to forcibly eject a disc

On the monitor panel and the source control screen:



- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit. (☞ above)

## How to read this manual:

- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For operations using the remote controller (RM-RK252), ☞ page 53.
- < > indicates the variable screens/menus/operations/settings that appear on the touch panel.
- [ ] indicates the buttons on the touch panel.
- **Indication language:** English indications are used for the purpose of explanation. You can select the indication language from the <Settings> menu. (☞ page 42)

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# INTRODUCTIONS

## Detaching/attaching the monitor panel

### Cautions

- Hold the monitor panel securely so as not to drop it accidentally.
- Fit the monitor panel onto the attaching plate until it is firmly locked.

### ■ Detaching

1 On the source control screen:



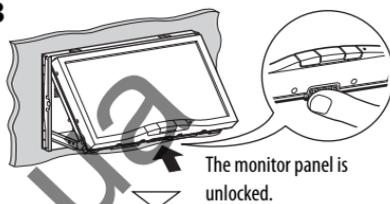
2



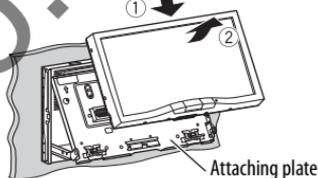
The monitor panel opens by about 50°.

- It closes automatically when no operation is done for about 60 seconds.  
Remove the monitor panel before this happens.

3

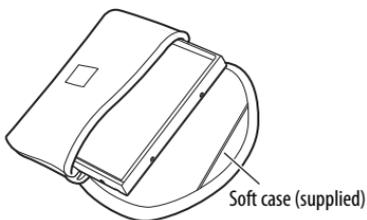


1

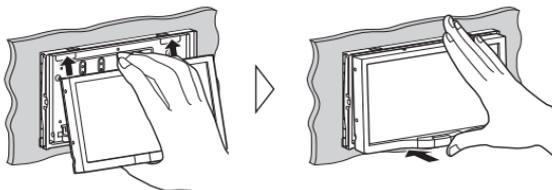


- The attaching plate closes automatically about 10 seconds after the monitor panel is unlocked.

4



### ■ Attaching



# Initial Settings

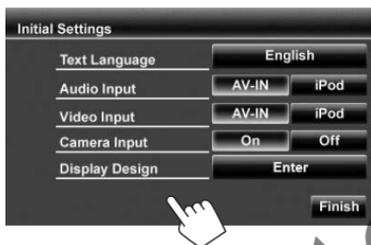
When you power on the unit for the first time or reset the unit, the initial setting screen appears.

- You can also change the settings on the <Settings> screen. (☞ page 39)

## 1 Turn on the ignition switch.

The power is turned on, and the initial setting screen appears.

## 2



## 3 Finish the procedure.



<b>Text Language</b>	Select the text language used for on-screen information. (☞ page 42)
<b>Audio Input</b>	Select the use of the LINE IN jacks. (☞ page 41)
<b>Video Input</b>	Select the use of the VIDEO IN jack. (☞ page 41)
<b>Camera Input</b>	Select <On> when connecting the rear view camera. (☞ page 41)
<b>Display Design</b>	Select the background and the colors of the text and the touch panel buttons. (☞ page 34)

# Canceling the display demonstration and setting the clock

## Canceling the display demonstration

### 1 Display <AV Menu> screen.



### 2 Display <Settings> screen.



### 3



Select <Off>.



### 4 Finish the procedure.



## Setting the clock

### 1 Display <AV Menu> screen.



### 2 Display <Settings> screen.



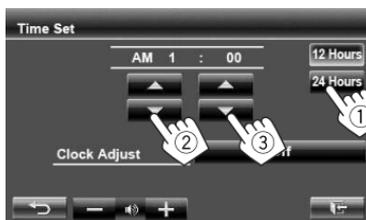
### 3



### 4 Set the clock time.



<Off>	Sets the clock manually. (see below)
<Radio>	Synchronizes the clock time with Radio Data System.

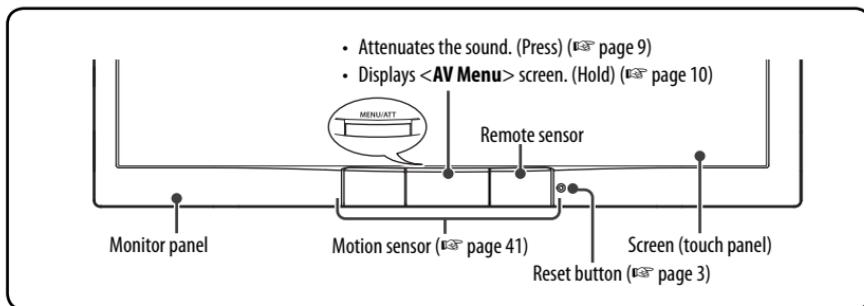


- ① Select the time display format
- ② Adjust the hour
- ③ Adjust the minute

### 5 Finish the procedure.



## Common operations



### Turning on the power

Turn on the ignition switch.

- The power is turned off when the ignition switch is turned off.

### Turning off/on the AV source

1 Display <AV Menu> screen.



### Turning off/on the screen

1 Display <AV Menu> screen.



2



The screen is turned off.



AV source is turned off.

To activate the AV function, change the source.

To turn on the screen, hold MENU/ATT.

### Caution on volume setting:

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

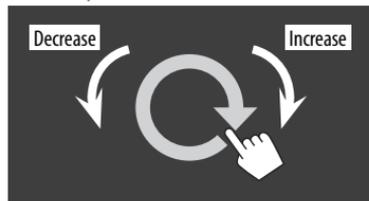
## Adjusting the volume

### To adjust the volume

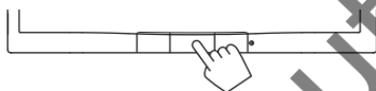
- About the adjustable volume range, see page 39 (<Amplifier Gain>).



- You can also adjust the volume by moving your finger on the touch panel as illustrated.



### To attenuate the sound

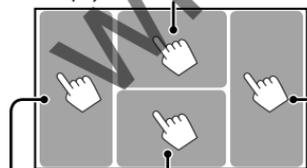


The ATT indicator lights up.

To cancel the attenuation, press MENU/ATT.

## Touch screen operation

Displays the video control menu.



Goes to the previous chapter/track.\*

Goes to the next chapter/track.\*

The operation buttons disappear when no operation is done for about 10 seconds.

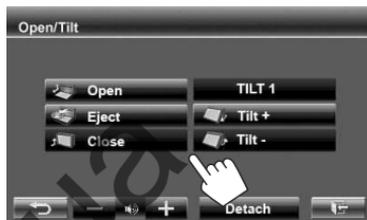
- \* Not available for video from an external component and rear view camera.  
Dragging your finger to left or right functions in the same way as touching.

## Ejecting the disc/adjusting the monitor panel

- On the source control screen:

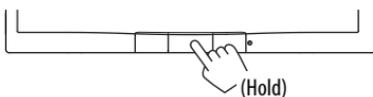


- 



[Open]	Opens the monitor panel.
[Eject]	Ejects the disc.
[Close]	Closes the monitor panel.
[Tilt +/ Tilt -]	Tilts the monitor panel.
[Detach]	To detach the monitor panel. (see page 5)
[↶]	Goes back to the current source screen.

- When the ACC is off, you can also eject the disc. Hold MENU/ATT to display the <Open/Tilt> screen.



# Switching screens

## Source control screen



## Common operating buttons

[NAVI]*1	Displays navigation screen. *2 (page 30)
[Phone] (below)	<ul style="list-style-type: none"> <li>Displays the phone control screen. (Press)</li> <li>Switches to the last connected mobile phone. (Hold) (page 46)</li> </ul>
[Sound]	Displays the sound adjustment screen. (page 32)
[TP]	Activates/deactivates TA standby reception mode. (page 15)
[Up/Down]	Displays <Open/Tilt> screen. (Press) (page 9)

## <AV Menu>

Displays source control screen/setting screen and changes picture source.



## <Settings>

Changes the detailed settings. (page 39)

Changes the page



[AV]	Displays the source control screen. (above)
[Dual]	Displays the picture from the rear source. (page 31)
[Camera]	Displays the picture from the rear view camera. *2 (page 38)
[Navi]*1	Displays the navigation screen. *2 (page 30)
[Off]	Turns off the screen. (page 8)

\*1 Appears only when <Navigation Input> is set to <On>. (page 30)

\*2 Displays the screen only when a rear view camera/navigation unit is connected.

## Icons for Bluetooth button

- : No device is connected.
- : A Bluetooth audio player is connected.
- : A Bluetooth mobile phone is connected.
- : Both Bluetooth mobile phone and audio player are connected.

- Press [Left Arrow] to return to the previous screen.
- Press [Right Arrow] to display the current source control screen.

# AV SOURCE OPERATIONS

## Selecting the playback source



<b>TUNER</b> (☞ page 12)	Switches to the radio broadcast.
<b>DISC</b> (☞ page 17)	Plays a disc.
<b>USB</b> (☞ page 24)	Plays files on a USB device.
<b>iPod</b> (☞ page 26)	Plays an iPod/iPhone.
<b>Bluetooth</b> (☞ page 51)	Plays a Bluetooth audio player.
<b>AV-IN*</b> (☞ page 29)	Switches to an external component connected to LINE IN/VIDEO IN jacks on the rear panel.
<b>AV Off</b>	Turns off the AV source.

\* Select an appropriate input setting on <Audio Input>. (☞ page 41)



## When an FM stereo broadcast is hard to receive...

Activate monaural mode for better reception.



<b>On</b>	Activate monaural mode to improve FM reception, but stereo effect will be lost. The MO indicator lights up.
<b>Off</b>	Restore the stereo effect.

## When the FM reception is interfered...



<b>Auto</b>	Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)
<b>Wide</b>	Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

## To tune in FM stations only with strong signals—LO/DX (Local/ Distance-extreme)



<b>Local</b>	Select this to tune in only to stations with sufficient signal strength. The LO indicator lights up.
<b>DX</b>	Deactivate the function. The DX indicator lights up.

## ■ Storing stations in memory

You can preset six stations for each band.

### Automatic presetting—SSM (Strong-station Sequential Memory) (For FM only)

1



2



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

### Manual presetting

1 Tune in to a station you want to preset.

(See page 12)

2 Select a preset number.



The station selected in step 1 is stored.

## ■ Selecting a preset station



The following features are available only for FM Radio Data System stations.

## ■ Searching for FM Radio Data System program—PTY Search

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

1



2 Select a PTY code.



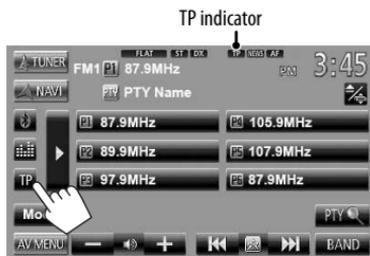
Changes the page

PTY Search starts.

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

## ■ Activating/deactivating TA/News Standby Reception

### TA Standby Reception



TP indicator	TA Standby Reception
Lights up	The unit will temporarily switch to Traffic Announcement (TA) if available.
Flashes	Not yet activated. Tune in to another station providing the Radio Data System signals.
Goes off	Deactivated.

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

### News Standby Reception

1



2

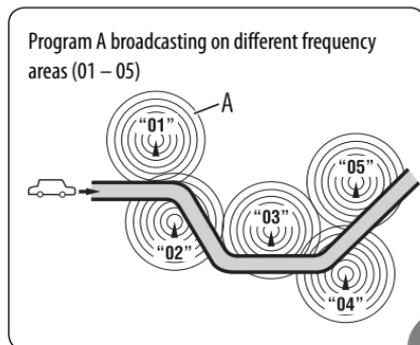


NEWS indicator	News Standby Reception
Lights up	The unit will temporarily switch to News Program if available.
Flashes	Not yet activated. Tune in to another station providing the Radio Data System signals.
Goes off	Deactivated.

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

## ■ Tracing the same program —Network-Tracking Reception

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



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

## To change the Network-Tracking Reception setting

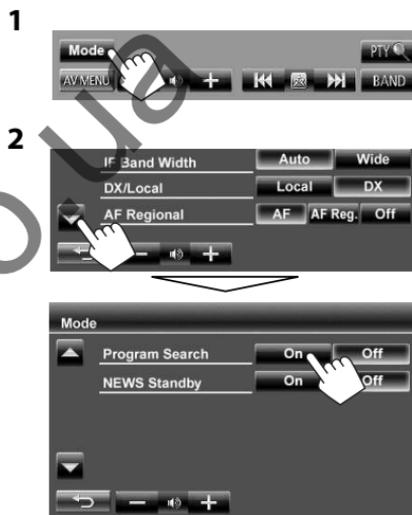


## ■ Automatic station selection— Program Search

Usually when you select preset stations, the preset station is tuned in.

If the signals from the preset FM Radio Data System station are not sufficient for good reception, this unit, using the AF data, tunes in to another station broadcasting the same program as the original preset station is broadcasting.

## To activate Program Search



- The unit takes some time to tune in to another station using program search.

To deactivate, select <Off>.

<b>AF</b>	Switches to another station. The program may differ from the one currently received (the AF indicator lights up).
<b>AF Reg.</b>	Switches to another station broadcasting the same program (the AF indicator lights up).
<b>Off</b>	Cancels.

# Disc operations

## Playing a disc

- If a disc does not have any disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.

### Inserting a disc

1 On the source control screen:

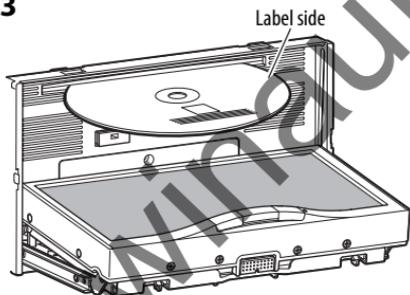


2



The monitor panel opens.

3



The source changes to "DISC" and playback starts.

- The DISC IN indicator lights up while a disc is inserted.

- If "⊘" appears on the screen, the unit cannot accept the operation you have tried to do.
  - In some cases, without showing "⊘", operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.

### To eject a disc

1 On the source control screen:



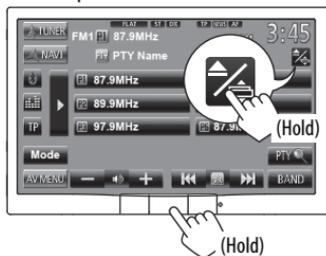
2 Press [Eject].

- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.
- If the disc cannot be ejected, see page 3.

When removing a disc, pull it horizontally.

### To prohibit disc ejection

On the monitor panel and the source control screen:



To cancel the prohibition, repeat the same procedure to select <EJECT OK>.

## Playable disc type

Disc type	Recording format, file type, etc	Playable
<b>DVD</b> • DTS sound cannot be reproduced or emitted from this unit.	DVD-Video *1 Region Code: 4 	✓OK
	DVD-Audio/DVD-ROM	✗NO
<b>DVD Recordable/Rewritable (DVD-R/-RW *2, +R/+RW *3)</b> • DVD Video: UDF bridge • DVD-VR • DivX/MPEG1/MPEG2/JPEG/MP3/WMA/WAV: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video	✓OK
	DVD-VR *4	
	DivX/MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV	
	MPEG4/AAC/DVD+VR/DVD-RAM	✗NO
<b>Dual Disc</b>	DVD side	✓OK
	Non-DVD side	✗NO
<b>CD/VCD</b>	Audio CD/CD Text (CD-DA)	✓OK
	VCD (Video CD)	
	DTS-CD/SVCD (Super Video CD)/CD-ROM/CD-I (CD-I Ready)	✗NO
<b>CD Recordable/Rewritable (CD-R/-RW)</b> • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓OK
	VCD (Video CD)	
	DivX/MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV	
	MPEG4/AAC	✗NO

\*1 If you insert a DVD Video disc of an incorrect Region Code, "Region Code Error" appears on the screen.

\*2 DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.

\*3 It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as its disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

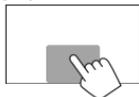
\*4 This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).

### Caution for DualDisc playback

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

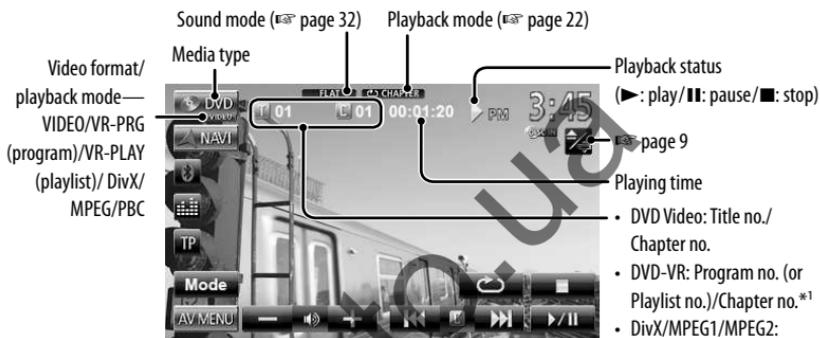
## Playback operations

To display the source control screen (☞ below)



- The operation buttons disappear when no operation is done for about 10 seconds.

### For DVD/DVD-VR/VCD/DivX/MPEG1/MPEG2/JPEG



[↺] [↻]\*<sup>2</sup> Selects playback mode. (☞ page 22)

[▶/⏸] Starts playback/pauses.

[■]\*<sup>3</sup> Stops playback.

[◀◀] [C] • Selects chapter. (Press)

[▶▶] • Reverse/forward search.\*<sup>4</sup> (Hold)

[–] [🔊] [+]

[Mode]\*<sup>5</sup>

Adjusts the volume.

Changes the settings for disc playback. (☞ page 23)

[AV MENU]

Displays <AV Menu> screen.

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

[☰]\*<sup>5</sup> Displays folder/track list. (☞ page 20)

[◀◀] [🎵]\*<sup>6</sup>

[▶▶]

• Selects track. (Press)

• Reverse/forward search.\*<sup>4</sup> (Hold)

\*<sup>1</sup> To display the Original Program/Playlist screen, ☞ page 21.

\*<sup>2</sup> Does not appear for DVD/DVD-VR/JPEG.

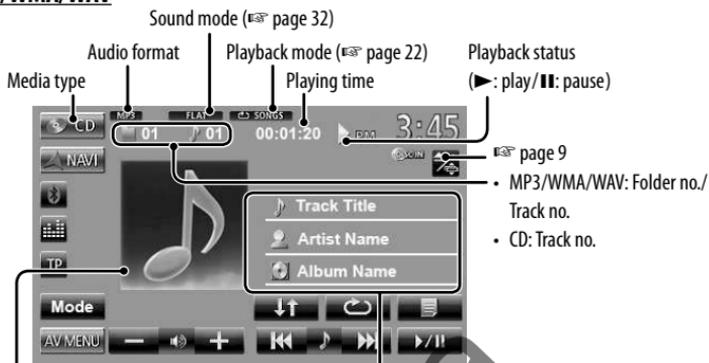
\*<sup>3</sup> Appears only for DVD/DVD-VR/VCD.

\*<sup>4</sup> Search speed varies depending on the type of disc or file.

\*<sup>5</sup> Does not appear for VCD.

\*<sup>6</sup> Displayed icon varies depending on the type of disc or file.

## For CD/MP3/WMA/WAV



While playing, "Jacket picture" is shown if the file has the tag data including "Jacket picture."

Track/file information

- Touching an information bar scrolls the text if all the text is not shown.

- |         |                                       |             |   |
|---------|---------------------------------------|-------------|---|
| [↺] [↕] | Selects playback mode. (☰ page 22)    | [–] [⏸] [⏪] | Adjusts the volume.                                 |
| [☰]*1   | Displays folder/track list. (☰ below) | [Mode]*1    | Changes the settings for disc playback. (☰ page 23) |
| [▶/⏸]   | Starts playback/pauses.               | [AV MENU]   | Displays <AV Menu> screen.                          |
| [ ◀◀]   | • Selects track. (Press)              |             |   |
| [▶▶ ]   | • Reverse/forward search.*2 (Hold)    |             |   |

\*1 Does not appear for CD.

\*2 Search speed varies depending on the type of disc or file.

## Selecting folder/track on the list

Changes the page



Returns to the root folder

Returns to the upper layer

## Playing Recordable/Rewritable discs

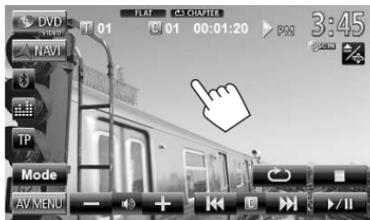
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics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

## Video menu operations

You can display the video menu screen while watching the playback pictures on the screen.

- Available items on the screen differ depending on the types of the loaded disc and playback files.
- The operation buttons disappear when no operation is done for about 10 seconds.

Touch any position of the screen other than operation buttons.



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



Selects the audio type.

- For DVD-VR: Selects the audio channel (ST: stereo, L: left, R: right).



Selects the subtitle type.



Selects view angle.



Displays the disc menu (DVD)/playlist (DVD-VR).



Displays the disc menu (DVD)/original program (DVD-VR).



Displays the menu/playlist/original program item selecting screen.

- [▲] [▼] [◀] [▶]: Selects an item.

For DivX only

[◀] [▶]: Skips back or forward by about 5 minutes.

- [Enter]: Confirms the selection.
- [Return]: Returns to the previous screen.



Switches to the direct selection mode. Touch the target item to select.



Displays picture adjustment screen. (☞ page 36)



Selects aspect ratio. (☞ page 37)



Displays the picture size selecting screen. (☞ page 37)

- Touching any position other than operation buttons displays the source control screen.

Only for VCD

1



2



Direct selecting buttons (see below)

	Selects the audio channel (ST: stereo, L: left, R: right).
<b>[Return]</b>	Displays the previous screen or the menu.
<b>[Menu]</b>	Displays the disc menu.
<b>[Adjust]</b>	Displays picture adjustment screen. (see page 36)
<b>[Aspect]</b>	Selects aspect ratio. (see page 37)
<b>[Zoom]</b>	Displays the picture size selecting screen. (see page 37)
	Displays/hides the direct selecting buttons. (see below)

• To select a track directly



- To switch between chapter/track entry and title/folder entry, press **[Direct/CLR]**.
- When you enter a wrong number, press **[Direct/CLR]** to delete the last entry.

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

### Selecting playback mode

For DVD/DVD-VR



Selects Repeat playback mode

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



Selects Random playback mode\*

Selects Repeat playback mode\*

\* You cannot activate the repeat mode and the random mode at the same time.

- Each time you press the button, the playback mode changes. (The corresponding indicator lights up.)
  - Available items differ depending on the types of loaded disc and playback file.

Indicator	Playback mode
<b>CHAPTER</b>	Repeats current chapter.
<b>TITLE</b>	Repeats current title.
<b>PROGRAM</b>	Repeats current program (not available for Playlist playback).
<b>SONGS</b>	Repeats current track.
<b>FOLDER</b>	Repeats all tracks of the current folder.
<b>FOLDER</b>	Randomly plays all tracks of current folder, then tracks of next folders.
<b>DISC</b>	Randomly plays all tracks.

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

## Settings for disc playback



Disc Setup items	Selectable setting/item	Initial: <u>Underlined</u>
For DVD/DVD-VR	<b>Menu Language</b>	Select the initial disc menu language; Initial <b>English</b> (page 58).
	<b>Audio Language</b>	Select the initial audio language; Initial <b>English</b> (page 58).
	<b>Subtitle</b>	Select the initial subtitle language or erase the subtitle ( <b>Off</b> ); Initial <b>English</b> (page 58).
	<b>Down Mix</b>	When playing back a multi-channel disc, this setting affects the signals reproduced through the FRONT OUT/REAR OUT jacks. ◆ <b>Dolby Sur</b> : Select this to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround. ◆ <b>Stereo</b> : Normally select this.
	<b>D. (Dynamic) Range Compres. (Compression)</b>	You can change the dynamic range while playing Dolby Digital software. ◆ <b>Off</b> : Select this to enjoy a powerful sound at a low volume level with its full dynamic range. ◆ <b>On</b> : Select this to reduce the dynamic range a little. ◆ <b>Dialog</b> : Select this to reproduce the movie dialog more clearly.
For discs except VCD/CD	<b>Monitor Type</b>	Select the monitor type to watch a wide screen picture on the external monitor. ◆ <b>16:9</b> ◆ <b>4:3 LB</b> (Letterbox) ◆ <b>4:3 PS</b> (PanScan) 
For discs containing audio/video/picture files	<b>File Type</b>	Select the playback file type when a disc contains different types of files. ◆ <b>Audio</b> : Plays back audio files. ◆ <b>Still Picture</b> : Plays back JPEG files. ◆ <b>Video</b> : Plays back DivX/MPEG1/MPEG2 files. ◆ <b>Audio&amp;Video</b> : Plays back audio files and DivX/MPEG1/MPEG2 files. • For playable file types, page 18. • If the disc contains no files of the selected type, the existing files are played in the following order: audio, video, then still picture.

## USB operations

### Playing a USB device

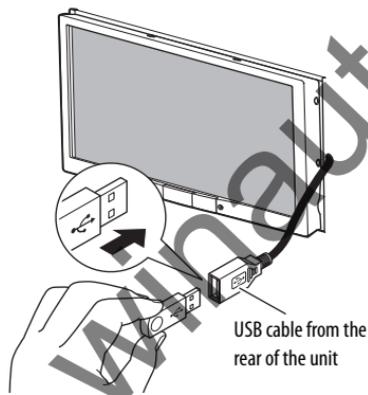
- This unit can play JPEG/MPEG1/MPEG2\*/MP3/WMA/WAV files stored in USB mass storage class device.
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Make sure all important data has been backed up to avoid losing the data.

\* Except for MPEG2 files recorded by JVC Everio camcorder (extension code <.mod>).

#### ■ Connecting a USB device

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

- You cannot connect a computer or portable HDD to the USB cable from the rear of the unit.



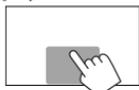
The source changes to “USB” and playback starts.

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

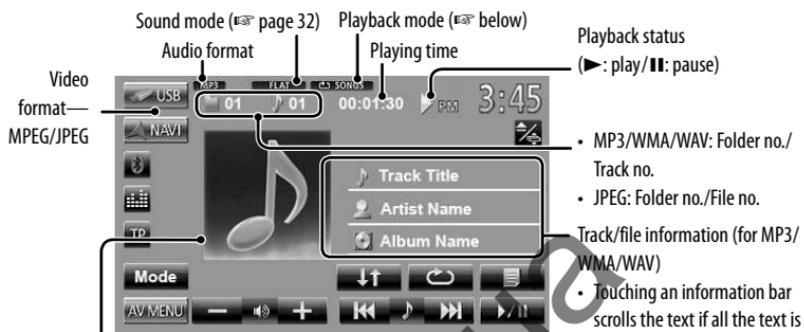
#### Cautions:

- This unit may not play back files in a USB device properly when using a USB extension cord.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1 A.
- This unit may not recognize a memory card inserted into the USB card reader.
- Connect only one USB device to the unit at a time. Do not use a USB hub.
- When connecting with a USB cable, use the USB 2.0 cable.
- The maximum number of characters for (when the characters are 1 byte):
  - Folder names : 50 characters
  - File names : 50 characters
- Avoid using the USB device if it might effect driving safety.
- Do not pull out and attach the USB device repeatedly while “Now Reading” is shown on the screen.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damaging to the device.

**To display the source control screen** (☞ below)



- The operation buttons disappear when no operation is done for about 10 seconds.
- To change settings for video playback, ☞ page 36.



While playing, "Jacket picture" is shown if the file has the tag data including "Jacket picture."

Playback status  
▶: play/⏸: pause

- MP3/WMA/WAV: Folder no./Track no.
- JPEG: Folder no./File no.
- Track/file information (for MP3/WMA/WAV)
- Touching an information bar scrolls the text if all the text is not shown.

- [↺] Selects repeat mode. \*1 \*2
  - **SONGS**: Repeats current track.
  - **FOLDER**: Repeats all tracks of the current folder.
- [↕] Selects random mode. \*1 \*2
  - **FOLDER**: Randomly plays all tracks of the folder.
  - **USB**: Randomly plays all tracks.
- [📁] Displays folder/track list. (☞ page 20)
- [▶/⏸] Starts playback/pauses.
- [⏮] \*3 Selects track. (Press)
- [⏭] \*3 Reverse/forward search. \*4 (Hold)
- [–] [🔊] [+] Adjusts the volume.
- [Mode] Changes the settings for file playback. (☞ below)
- [AV MENU] Displays <AV Menu> screen.

• Available items differ depending on the types of playback file.

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

\*2 You cannot activate the repeat mode and the random mode at the same time.

\*3 Displayed icon varies depending on the file type.

\*4 Search speed varies depending on the file type.

**Setting <Monitor Type>**

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

<b>16:9</b>	
<b>4:3 LB (Letterbox)</b>	
<b>4:3 PS (PanScan)</b>	

**Setting <File Type>**

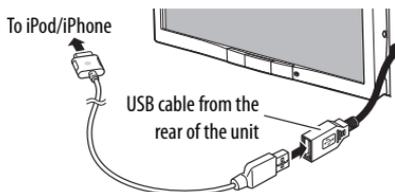
<b>Audio</b>	Plays back audio files.
<b>Still Picture</b>	Plays back JPEG files.
<b>Video</b>	Plays back MPEG1/MPEG2 files.
<b>Audio&amp;Video</b>	Plays back audio files and MPEG1/MPEG2 files.

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

# Listening to the iPod/iPhone device

## Preparation

### Connecting iPod/iPhone



- Use the following cables:
  - To listen to the music (digital):** USB 2.0 cable (accessory of the iPod/iPhone)
  - To watch the video and to listen to the music (analog):** USB Audio and Video cable for iPod/iPhone—KS-U30 (separately purchased) (☞ Installation/Connection Manual)
- Change the setting for watching video. (☞ page 28)

iPod/iPhone that can be connected to this unit:

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

### Settings for iPod playback

When the source is "iPod"...

1



2



**AudioBooks:** Select the speed of audio books.

**iPod Control:**

- When using iPod nano (1st Generation) or iPod with video (5th Generation) with <AV-IN> selected for <Audio Input> (☞ page 41), only <Head> mode is selectable.

<b>Head</b>	Controls playback from this unit.
<b>iPod</b>	Controls audio/video playback from the iPod/iPhone. <ul style="list-style-type: none"> <li>• Playback information is shown.</li> </ul>
<b>External*</b>	Allows any audio/video signals from iPod/iPhone. <ul style="list-style-type: none"> <li>• No information is shown.</li> </ul>

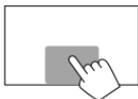
**Artwork:** Shows/hides the iPod artwork.

\* When you turn on the power and play back a video with <External> selected, caution message appears. Press [**Accept**] to continue.

- When you use App of the iPod touch or iPhone, see also page 59 for safety instructions.

## iPod/iPhone playback operations

### To display the source control screen (☞ below)



- The operation buttons disappear when no operation is done for about 10 seconds.
- To change settings for video playback, ☞ page 36.

- The operations explained in this manual are under <Head> mode (☞ page 26).



While playing, Artwork (the picture displayed on the screen of iPod/iPhone) is shown if the song contains the Artwork.\*1

- |  |  |
|--|--|
| <p>[↺] Selects Repeat playback mode.*2</p> <ul style="list-style-type: none"> <li>• ↺ <b>SONGS</b>: Functions the same as "Repeat One."</li> </ul> <p>[↕] Selects Random playback mode.*2</p> <ul style="list-style-type: none"> <li>• ↕ <b>SONGS</b>: Functions the same as "Shuffle Songs."</li> <li>• ↕ <b>ALBUMS</b>: Functions the same as "Shuffle Albums."</li> </ul> | <p>[🔍] Displays the Music/Video menu on the iPod/iPhone. (☞ page 28)</p> <p>[▶/  ] Starts playback/pauses.</p> <ul style="list-style-type: none"> <li>• Selects a track/video.*3 (Press)</li> <li>• Reverse/forward search. (Hold)</li> </ul> <p>[←] [🔊] [+] Adjusts the volume.</p> <p>[Mode] Changes the settings for iPod playback. (☞ page 26)</p> <p>[AV MENU] Displays &lt;AV Menu&gt; screen.</p> |
|--|--|

\*1 For changing the Artwork display setting, ☞ page 26.

\*2 To cancel random or repeat mode, press the button repeatedly until the indicator disappears.

\*3 You cannot resume playback for video sources.

- When you turn on this unit, the iPod/iPhone is charged through the unit.
  - iPhone 4 can be charged only when connected through KS-U30.
- The text information may not be displayed correctly.

### Notice:

When operating an iPod/iPhone, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site: <<http://www.jvc.co.jp/english/car/>> (English website only)

## Selecting a track/video from menu on the iPod/iPhone

1



2 Select the menu (Music or Video) (1), a category (2), then a desired item (3).

- Select the item in the selected layer until a desired track starts playing.

### Music menu:

Switches between Music (🎵) and Video (🎬) and Video (🎬) and Music (🎵)



Returns to the top layer

Returns to the previous layer

### Video menu:

Switches between Music (🎵) and Video (🎬)



- Available categories differ depending on the type of your iPod/iPhone.
- \* You can switch to the top of the category by pressing the corresponding tab: Playlist (📁), Artist (👤), Albums (📀) or Songs (🎵).

## Setting for watching video

You can change the setting only when the AV source is turned off.

1 On <AV Menu>:



2



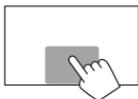
- When iPod with video (5th Generation) is connected, also select <iPod> for <Audio Input>.

For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition.

If the performance is not improved or slow, reset your iPod/iPhone.

## Using other external components

### To display the source control screen (☞ below)



- The operation buttons disappear when no operation is done for about 10 seconds.
- To change settings for video playback, ☞ page 36.

AV-IN name (☞ below)

Sound mode (☞ page 32)



[Mode]

Changes the AV-IN name.

- Press [◀] or [▶] to select an AV-IN name.

[AV MENU]

Displays <AV Menu> screen.

## AV-IN

You can connect an external component to the LINE IN/VIDEO IN jacks. (☞ Installation/Connection Manual)

### Preparation:

- To listen to the music from the connected component, select <AV-IN> for <Audio Input> setting. (☞ page 41)
- To watch the video from the connected component, select <AV-IN> for <Video Input> setting. (☞ page 41)

- 1 Select "AV-IN" as the source. (☞ page 11)
- 2 Turn on the connected component and start playing the source.

## Using the external navigation unit

You can connect a navigation unit (not supplied) to the RGB input terminal so that you can view the navigation screen. (☞ the Installation/Connection Manual)

- Please contact your dealer to inquire about compatible navigation units.

### ■ Activating the navigation function

1 On **<AV Menu>**:



2



3



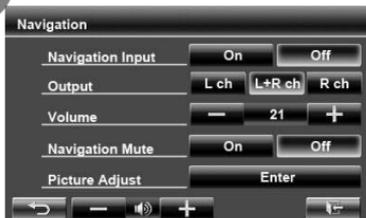
- While the navigation screen is displayed, the touch panel operations are available only for using navigation function.
- The aspect ratio of the navigation screen is fixed to **<Full>** regardless of the **<Aspect>** setting (☞ page 37).
- You can use the source "AV-IN" for listening to an audio source connected to the LINE IN jacks.

### To cancel the navigation screen

Hold MENU/ATT to display **<AV Menu>**, then press [AV].

### ■ Settings for navigation unit

On **<Navigation>** (☞ step 3 on the left column):



### ■ To view the navigation screen

On the source control screen:



or

On **<AV Menu>**:



<b>Navigation Input</b>	☞ the left column
<b>Output</b>	Select front speakers used for the navigation guidance.
<b>Volume</b>	Adjust the volume of the navigation guidance. (0 to 35)
<b>Navigation Mute</b>	Select <b>&lt;On&gt;</b> to attenuate the sound coming through speakers other than the front speakers during navigation guidance.
<b>Picture Adjust</b>	Adjust the brightness and black. (☞ page 36)

## Rear source operations

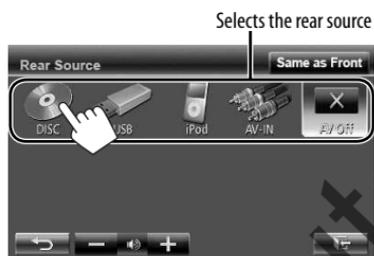
You can enjoy the rear source playback on the external monitor connected to the VIDEO OUT and 2nd AUDIO OUT jacks, while listening to any source.

### ■ Activating the rear source

#### 1 On <AV Menu>:



#### 2 Select the rear source.



- To deactivate the rear source, press [Same as Front].

### ■ Displaying the picture — Dual play

When the rear source is in use, you can display the picture in the rear source while any source other than "DISC", "USB" or "iPod" is selected.

- You can use the Dual play function only when the parking brake is engaged.

#### On <AV Menu>:



- Dual play cannot be used when there is no picture data in the rear source.

### ■ Operations on the external monitor (from the remote controller only)

#### Selecting a folder or track on the control screen

For DivX/MPEG1/MPEG2/JPEG/MP3/WMA/WAV/CD/iPod

- DivX/MPEG1/MPEG2/JPEG: While playback is stopped.
- CD/iPod: Skip step 1.

- 1 Press </> to select "Folder" column or "Track" column.
- 2 Press Δ/▽ to select a Folder or Track.

#### Using the list screen

For DivX/MPEG1/MPEG2/JPEG/MP3/WMA/WAV

While playback is stopped.

- 1 Press TOP M or MENU to display the list screen.
- 2 Press Δ/▽ / </> to select a folder/track on the list.
  - To go back to the folder list, press RETURN.
- 3 Press ENT to confirm the selection.

#### For iPod

- 1 Press TOP M or MENU to display the <SEARCH MODE> screen.
- 2 Press Δ/▽ / </> to select an item on the list.
  - To go back to the playback control screen, press RETURN or ►/II.
- 3 Press ENT to confirm the selection.

# Sound adjustment

## Using the sound equalization

- The adjustment is memorized for each source until you adjust sound again. If the source is a disc, the adjustment is stored for each of the following categories.
  - DVD/DVD-VR
  - VCD/CD
  - DivX/MPEG1/MPEG2/MP3/WMA/WAV
- You cannot adjust the sound when the AV source is turned off.

### Selecting a preset sound mode

1 On <AV Menu>:

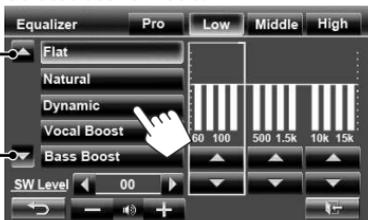


or

On the source control screen:



2 Select a sound mode.

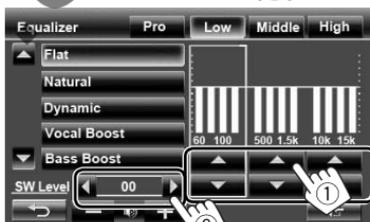


Changes the page

### Storing your own adjustment

#### Customizing preset sound mode

- Select a sound mode. (Selecting a preset sound mode)
- Adjust the level of each band (1), then select the subwoofer level (2).



3



The adjustments are stored and <User> is activated.

## Adjusting the sound precisely

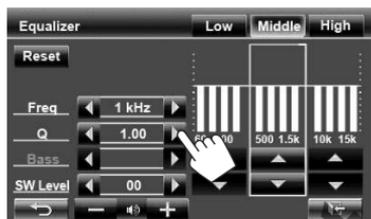
1 Perform steps 1 and 2 of "Selecting a preset sound mode," then...



2 Select a band.



3 Adjust the sound.



<b>Reset</b>	Changes level of Low/Mid/High to 0.
<b>Freq</b>	Selects frequency.
<b>Q</b>	Adjusts the width of the frequency.*1
<b>Bass</b>	Activates/deactivates bass.*2
<b>SW Level</b>	Adjusts subwoofer level.

The adjustments are stored and <User> is activated.

- The adjustments are memorized until you adjust sound again.
- To make adjustment for other bands, repeat steps 2 and 3.

\*1 Fixed for "High" band.

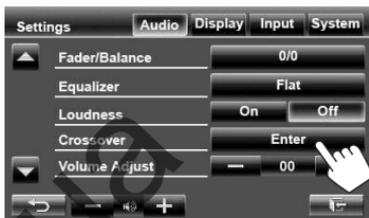
\*2 Only for "Low" band.

## Adjusting the cross over frequency

1 On <AV Menu>:

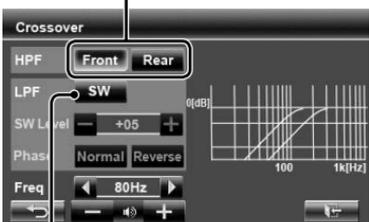


2

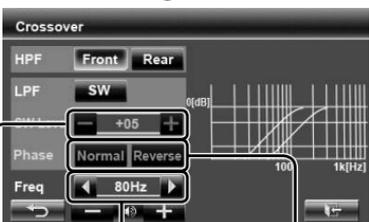


3 Select the item to adjust, then make adjustment.

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



Adjusts the cross over for subwoofer (low pass filter).



Adjusts the cross over frequency.

Selects the phase for the subwoofer.\*

Adjusts the subwoofer level.

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

# Changing display design

You can change the background, the color of text and touch panel buttons.

## 1 On <AV Menu>:



## 2



## 3 Select an item (<Backgrnd>, <Text> or <Buttons>), then change the setting.



### Background

#### ① Select a background

Basic image (default)



You can select a color on the color palette or adjust the color on the user color adjuster (☞ the right column)

For setting your favorite scene as the background, ☞ page 35

## ② Select/adjust the color



Color palette

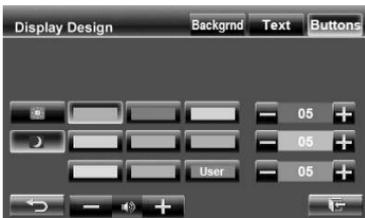
Dimmer setting: You can make selections for each dimmer setting—☞ (On) or ☞ (Off)

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

### Text/Buttons

For setting the color, ☞ above.

- On the button color selection screen, you can select a color for touch panel buttons. (When a touch panel button is pressed, the selected color is shown.)



## Using your favorite scene as the background

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

- You cannot capture copyrighted content and image from iPod/iPhone.
- When using JPEG file as the background, make sure that the resolution is 800 x 600 pixels.
- The color of the captured image may look different from that of the actual scene.

### 1 Play back a video or JPEG.

### 2 Display <Display Design>. (page 34)

### 3



### 4 Adjust the image.



- [▶/||]\* Starts playback/pauses.
- [||▶]\* Advances scenes frame-by-frame.
- [▶] Magnifies the scene.  
(<Zoom1> – <Zoom3>)
- [▲] [▼] Moves the zooming frame.
- [◀] [▶]

- To cancel the capture screen, press [↶].

\* Not displayed when playing an external component connected to LINE IN/VIDEO IN jacks.

### 5 Capture the image displayed on the screen.



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

- Press [No] to return to the previous screen.

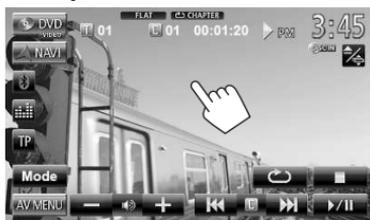
## Setting for video playback

You can change the setting for video playback.

### Picture adjustment

You can adjust the picture quality.

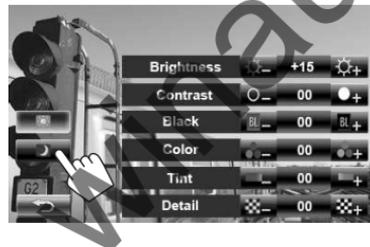
#### 1 Touch any position of the screen other than operation buttons.



2



#### 3 Select Dimmer On (<img alt="Dimmer On icon" data-bbox="235 478 265 498"/>) or Off (<img alt="Dimmer Off icon" data-bbox="235 502 265 522"/>).



#### 4 Adjust the picture (-15 to +15).



\* Adjustable only when the incoming signal is NTSC.

## Changing the aspect ratio

You can change the aspect ratio for video playback.

### 1 Touch any position of the screen other than operation buttons.



### 2



### 3



	4:3 signal	16:9 signal
<b>Full*:</b> For 16:9 original pictures		
<b>Panorama:</b> For viewing 4:3 pictures naturally on the wide screen		
<b>Regular*:</b> For 4:3 original pictures		
<b>Auto:</b>	<ul style="list-style-type: none"> <li>For "DISC"/"USB" only: Aspect ratio is automatically selected to match to the incoming signals.</li> </ul>	

\* While DivX is played back with <Monitor Type> set to <16:9> (page 23), the aspect ratio is not set correctly.

## Zooming picture

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

- When <Aspect> is set to <Panorama> or <Auto> (page 23 left column), the picture is zoomed with the aspect ratio of the <Full> setting.

### 1 Touch any position of the screen other than operation buttons.



### 2



### 3



[▲] [▼] [◀] [▶]: Moves the zooming frame.

## Using a rear view camera

- To use a rear view camera, the REVERSE GEAR SIGNAL lead connection is required. For connecting a rear view camera, see the Installation/Connection Manual.

### ■ Activating the rear view camera

1 On <AV Menu>:



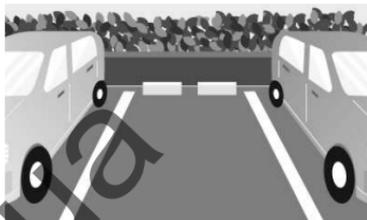
2



To deactivate, select <Off>.

### ■ Displaying the picture from the rear view camera

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



### To display the picture from the rear view camera manually

On <AV Menu>:



When displaying the picture from the rear view camera manually, you can change the setting of the picture. (☞ page 36)

To cancel the rear view screen, hold MENU/ATT to display <AV Menu>, then press [AV].

# Setting menu items



- You cannot change <Audio> settings (except <Amplifier Gain>) when the AV source is turned off.

Menu item	Selectable setting/item	Initial: <u>Underlined</u>
Audio	<b>Fader/Balance</b>	<p><b>Fader</b> : Adjust the front and rear speaker output balance.</p> <ul style="list-style-type: none"> <li>◆ <b>F6 to R6</b>; Initial <b>0</b></li> <li>• When using a two-speaker system, set the fader to the center (<b>0</b>).</li> </ul> <p><b>Balance</b> : Adjust the left and right speaker output balance.</p> <ul style="list-style-type: none"> <li>◆ <b>L6 to R6</b>; Initial <b>0</b></li> </ul> <p>Press [▲/▼/▶/◀] or drag [⊕] to adjust.</p> <ul style="list-style-type: none"> <li>• To clear the adjustment, press [<b>Center</b>].</li> </ul>
	<b>Equalizer</b>	<p>Change the sound mode or adjust and store the equalization for each source. (☞ page 32)</p> <ul style="list-style-type: none"> <li>◆ <b>Flat/Natural/Dynamic/Vocal Boost/Bass Boost/Vibrant/User</b></li> </ul>
	<b>Loudness</b>	<p>You can activate/deactivate the loudness function.</p> <ul style="list-style-type: none"> <li>◆ <b>Off</b> : Cancels.</li> <li>◆ <b>On</b> : Boost low and high frequencies to produce a well-balanced sound at a low volume level.</li> </ul>
	<b>Crossover</b>	<p>Adjust the cross over frequency. (☞ page 33)</p>
	<b>Volume Adjust</b>	<p>Adjust and store the auto-adjustment volume level for each source. (For discs, the adjustment is stored for each of the following categories: DVD/DVD-VR, VCD/CD, and DivX/MPEG1/MPEG2/MP3/WMA/WAV.) The volume level will automatically increase or decrease when you change the source.</p> <ul style="list-style-type: none"> <li>◆ <b>-15 to +06</b>; Initial <b>00</b></li> </ul>
	<b>Amplifier Gain*</b>	<p>You can change the maximum volume level of this unit.</p> <ul style="list-style-type: none"> <li>◆ <b>High</b> : VOL 00 to 50</li> <li>◆ <b>Low</b> : VOL 00 to 30 (Select this if the peak power of the speakers is less than 50 W.)</li> <li>◆ <b>Off</b> : Deactivates the built-in amplifier.</li> </ul> <ul style="list-style-type: none"> <li>• If you change this setting from &lt;High&gt;/&lt;Off&gt; to &lt;Low&gt; while the volume level is set higher than the maximum level of &lt;Low&gt;, the unit automatically lowers the volume level to "VOL 30".</li> </ul>

\* You can change the setting only when the AV source is turned off.

Menu item		Selectable setting/item	Initial: <u>Underlined</u>
Audio	Speaker Select	Select the size of the connected speaker. ◆ <u>Standard/Narrow/Middle/Wide</u>	
	Dimmer	◆ <u>Auto</u> : Dims the screen and button illumination when you turn on the headlights. • The ILLUMINATION CONTROL lead connection is required. (☞ the Installation/Connection Manual) ◆ <u>On</u> : Activates dimmer. ◆ <u>Off</u> : Cancels. ◆ <u>Dimmer Time Set</u> : Sets the Dimmer On (☺)/Off (☹) times. • Press [▲] or [▼] to set the time.	
Display	Display Design	Change the display design (background, text color and touch panel button color). (☞ page 34)	
	OSD Clock	◆ <u>On</u> : Displays the clock while video source is played back. ◆ <u>Off</u> : Cancels.	
	Demonstration	◆ <u>On</u> : Activates the demonstration on the screen. ◆ <u>Off</u> : Cancels. (☞ page 7)	
	Scroll	◆ <u>Auto</u> : Repeats scrolling. ◆ <u>Once</u> : Scrolls the displayed information once. ◆ <u>Off</u> : Cancels. • Touching an information bar scrolls the text regardless of this setting.	
	GUI Adjust	Adjust the brightness and black color of the screen. Select Dimmer On (☺)/Off (☹), then change the following settings: ◆ ☼-/☼+ : Adjusts brightness (-15 to +15; Initial <u>00</u> for Dimmer On/+15 for Dimmer Off). ◆ <u>BL-/BL+</u> : Adjusts black (-15 to +15; Initial <u>00</u> ).	
	NTSC/PAL	Select the color system of the external monitor. ◆ <u>NTSC, PAL</u>	

Menu item	Selectable setting/item	Initial: <u>Underlined</u>
Display	<p><b>Display Sensor</b></p> <p>Change the condition for turning off/on the screen and the light of MENU/ATT button.</p> <p><b>Sensor:</b> Select the condition of the screen for turning on.</p> <ul style="list-style-type: none"> <li>◆ <b>Motion</b> : The screen turns on when your hand moves closer to the motion sensor.</li> <li>◆ <b>Touch</b> : The screen turns on when your finger touches the touch panel.</li> <li>◆ <b>Off</b> : The screen is always turned on while the power is turned on.</li> </ul> <p><b>Motion Sensitiv.:</b> Change the sensitivity of the sensor for &lt;Sensor&gt;. (☞ above)</p> <ul style="list-style-type: none"> <li>◆ <b>High, Low</b></li> </ul> <p><b>Time Out Mode:</b> Select the condition of the screen when no operation is performed for about 10 seconds while &lt;Sensor&gt; is set to &lt;Motion&gt; or &lt;Touch&gt;. (☞ above)</p> <ul style="list-style-type: none"> <li>◆ <b>Simple</b> : Source control buttons are displayed, and the light of MENU/ATT button is turned off.</li> <li>◆ <b>Backgrnd</b> : The background and clock are shown, and the light of MENU/ATT button is turned off.                             <ul style="list-style-type: none"> <li>• You can change the background. (☞ page 34)</li> </ul> </li> <li>◆ <b>Black Out</b> : The screen and the light of MENU/ATT button are turned off.</li> </ul>	
Input	<p><b>Audio Input*1</b></p> <p>You can determine the use of LINE IN jacks.</p> <ul style="list-style-type: none"> <li>◆ <b>AV-IN</b> : Select to listen to the music from an audio component such as a portable audio player.*2</li> <li>◆ <b>iPod</b> : Select when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone. (☞ page 26)</li> </ul>	
	<p><b>Video Input*1</b></p> <p>You can determine the use of VIDEO IN jack.</p> <ul style="list-style-type: none"> <li>◆ <b>AV-IN</b> : Select to watch the video from an AV component such as a camcorder.*2</li> <li>◆ <b>iPod</b> : Select when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone. (☞ page 26)</li> </ul>	
	<p><b>Camera Input</b></p> <ul style="list-style-type: none"> <li>◆ <b>On</b> : Displays the picture from rear view camera when you shift the gear to the reverse (R) position.</li> <li>◆ <b>Off</b> : Cancels.</li> </ul>	
	<p><b>Navigation</b></p> <p>Change the navigation settings. (☞ page 30)</p>	

\*1 You can change the setting only when the AV source is turned off.

\*2 When you watch a video of an AV component, select <AV-IN> for both <Audio Input> and <Video Input>.

Menu item	Selectable setting/item	Initial: <u>Underlined</u>
System	<b>Text Language*</b>	Select the text language used for on-screen information. ◆ <b>English/Spanish/French/German/Italian/Dutch/Swedish/Danish/Russian/Portuguese/Chinese-Simplified/Chinese-Traditional/Thai/Turkish/Arabic/Persian/Hebrew</b>
	<b>GUI Language</b>	Select the language (< <b>English</b> > or < <b>Local</b> >: the language selected above) used on operation buttons and menu items.
	<b>Time Set</b>	Adjust the clock time. (☞ page 7)
	<b>Beep</b>	Change the volume of the key-touch tone. ◆ <b>On</b> : Activates the key-touch tone. ◆ <b>Off</b> : Cancels.
	<b>User Profile</b>	You can memorize, recall, or clear the settings you have made. (☞ page 43)
	<b>Initialize</b>	Initialize all settings you have made. Hold [ <b>Enter</b> ] to initialize the settings. • When restoring the settings, adjust the settings on the < <b>Initial Settings</b> > screen. (☞ page 6)
	<b>Serial Number</b>	Displays the serial number.
	<b>Touch Panel Adjust</b>	Adjust the touch position of the buttons on the screen. (☞ page 43)
	<b>DivX(R) VOD</b>	This unit has its own Registration Code. Once you have played back a file with which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection. • Press [ <b>Enter</b> ] to display the information. • To return to the previous screen, press [ <b>OK</b> ].

\* "Please Detach Front Panel" appears when the setting is changed. Detach the monitor panel then attach it to enable the change.

## Memorizing/recalling the settings

You can memorize the settings changed in the <Settings> menu and recall the memorized settings anytime.

### Memorizing your settings

1 On <Settings>:



2



3 Select an item (<User1>, <User2> or <User3>) to memorize the settings.

A confirmation message appears. Press [Yes].

### Recalling your settings

On <User Profile> (☞ Step 2 above):



A confirmation message appears. Press [Yes].

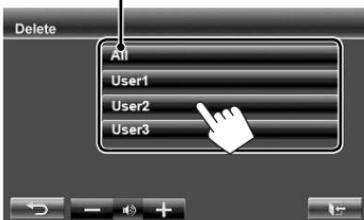
### Clearing your settings

1 On <User Profile> (☞ Step 2 above):



2

Clears all settings memorized in <User1>, <User2> and <User3>



A confirmation message appears. Press [Yes].

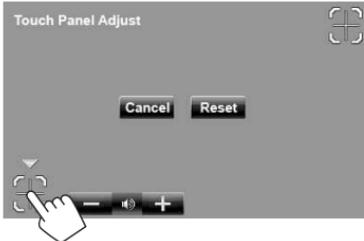
## Adjusting the touch position

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

1 On <Settings>:



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



- To cancel, press [Cancel].
- To reset to the initial setting (center position), press [Reset].

# BLUETOOTH OPERATIONS

## Information for using Bluetooth® devices

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

**Bluetooth Information:** If you wish to receive more information about Bluetooth, visit the following JVC web site: <<http://www.jvc.co.jp/english/car/>> (English website only)

## Bluetooth operations

### Bluetooth®

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

- Refer to pages i and ii at the end of manual to check the countries where may use the Bluetooth® function.

### **Bluetooth profile**

This unit supports the following Bluetooth profiles;

- HFP (Hands-Free Profile) 1.5
- OPP (Object Push Profile) 1.1
- A2DP (Advanced Audio Distribution Profile) 1.2
- AVRCP (Audio/Video Remote Control Profile) 1.3
- PBAP (Phonebook Access Profile) 1.0

When shipped from the factory, the Bluetooth adapter (KS-UBT1) is inserted.



Bluetooth adapter  
(KS-UBT1)

- Keep the Bluetooth adapter inserted when using the Bluetooth function.
- This port is designed for the use with KS-UBT1 only. Other Bluetooth adapters or USB devices cannot be used.

## Connecting Bluetooth devices

### ■ Connecting a new Bluetooth device for the first time

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

To make pairing, you may need to enter the PIN (Personal Identification Number) code of your Bluetooth device you want to connect.

- Once the connection is established, it is registered in the unit even if you reset the unit. Up to 5 devices can be registered in total.
- Only one device for Bluetooth phone and one for Bluetooth audio can be connected at a time.
- To use the Bluetooth function, you need to turn on Bluetooth function of the device.

### 1 Display the Bluetooth setting screen.

On <AV Menu>:



#### For connecting a Bluetooth mobile phone



The phone setting screen is displayed.

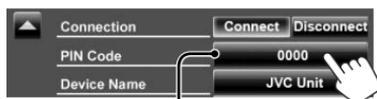
#### For connecting a Bluetooth audio player



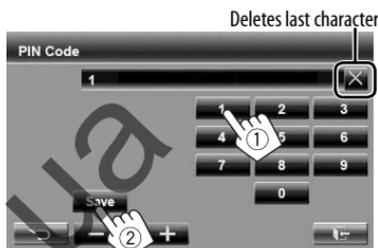
<Mode> is displayed.

### 2 Change the PIN code.

- If you skip changing PIN code, go to step 3.



PIN code (initial: 0000)



### 3



### 4



Cancel

### 5 Operate the Bluetooth device to connect.

"Connected" appears. Press [OK] to confirm the operation.

Now connection is established and you can use the Bluetooth device through the unit.

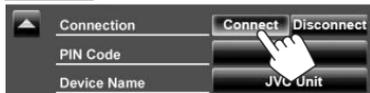
## ■ Connecting/disconnecting a registered Bluetooth device

### 1 Display the Bluetooth setting screen.

(☰ page 45)

- For Bluetooth mobile phone: Phone setting screen
- For Bluetooth audio player: <Mode>

### 2 To connect



Select the device you want to connect.



"Connected" appears. Press [OK] to confirm the operation.

- All registered devices (mobile phone and audio player) are listed on <Connect Device>.
  - Selectable items depend on the device you are operating.
- When a mobile phone is connected, holding [⏮] on the source control screen switches between the last connected mobile phone and current one.

### To disconnect



A confirmation message appears. Press [Yes].

## ■ Deleting a registered Bluetooth device

### 1 On <Connect Device> (☰ Step 2 on the left column):

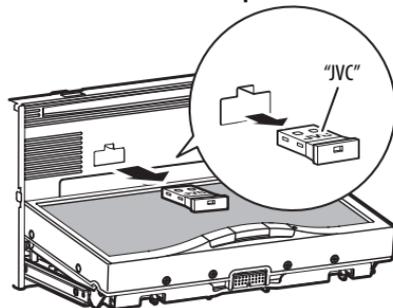


### 2 Select a device to delete the registration.



Confirmation message appears. Press [Yes].

### To detach the Bluetooth adapter



- Store the Bluetooth adapter in the supplied bag.
- When inserting the Bluetooth adapter again, insert it firmly with the JVC logo facing up.

## Using the Bluetooth mobile phone

### ■ Receiving a call

When a call comes in/making a call...

Status of the device/Battery reminder (only when the information comes from the device)

Call information (if acquired)



Ends/rejects the call

- Phone operation is not available while the picture from the rear view camera is displayed. (☞ page 38)

### When <Auto Answer> is set to <On>

The unit answers the incoming call automatically.

(☞ page 52)

### ■ Adjusting the volume of calls/earpiece/microphone

While talking...



Adjusts the volume of calls/earpiece

Adjusts the microphone volume

- This adjustment does not affect the volume level of the other sources.

### ■ Switching between handsfree mode and phone mode

While talking...



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

### ■ Checking SMS reception

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



- The ring tone sounds only when the source is "BT Audio."

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

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

## Making a call

1 On the source control screen:



- You can also display the phone control screen by pressing [Phone] on <AV Menu>.



2 Select a method to make a call.

Direct number entry (☎ below)      Preset list/call lists/phone book (☎ the right column)



Preset list (For presetting, ☎ page 49)  
Voice dialing (☎ the right column)

### Direct number entry



Presets the entered phone number on the preset list (☎ page 49)

- You can enter up to 32 numbers.

Hold: Adds "+"

## Using the preset list/phone book/call lists

1



☎	From preset list
☎	From dialled call list.
☎	From received call list.
☎	From missed call list.
☎	From phone book.
	• For copying the phone book, ☎ page 49.



2



### Voice Dialing

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



Speak the name you want to call.

- To cancel, press [Cancel].

## ■ Presetting the phone numbers

You can preset up to 6 phone numbers.

- 1 On the source control screen:



- 2 Select an item from phone book/call lists.



- 3 Select a phone number.



- 4 Select a preset number to store.



- You can also preset a phone number entered on the direct number entry screen by pressing [Save]. (See page 48)

## ■ Copying the phone book

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

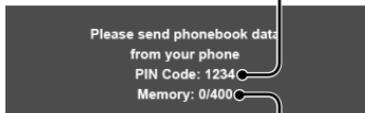
- 1 On the source control screen:



- 2



PIN code (initial: 0000)



Numbers of the phone book memories copied

- 3 Operate the target mobile phone.

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

- 4 Finish the procedure.



The phone book memory is copied from the mobile phone.

## ■ Deleting the phone number memory in the unit

1 Display the preset list/phone book/call list you want to delete. (Page 48)

2



- You cannot delete data when <Phone> is selected.

3 Select the item you want to delete.



Delete all the numbers/names in the selected item

A confirmation message appears. Press [Yes].

## ■ About mobile phone compatible with Phone Book Access Profile (PBAP)

If your mobile phone supports PBAP, the phone book and call lists are automatically copied to the unit when the mobile phone is connected.

- Phone book: up to 5 000 entries
- Dialed calls, received calls, and missed calls: up to 50 entries each

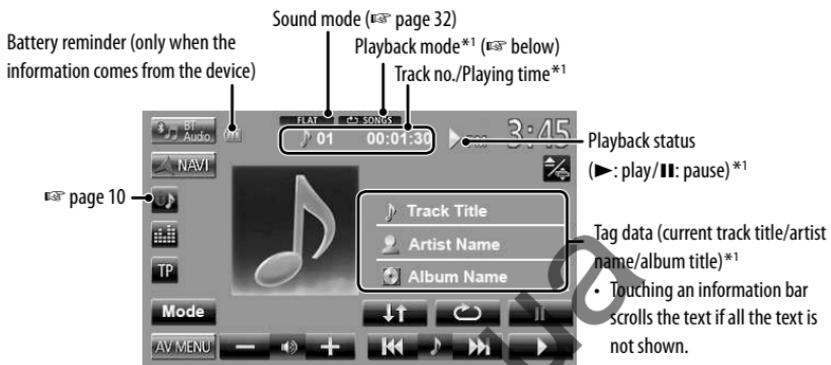
### To display the phonebook/call lists of the mobile phone or the unit

Connected mobile phone



## Using the Bluetooth audio player

- To register a new device, [page 45](#).
- To connect/disconnect a device, [page 46](#).



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

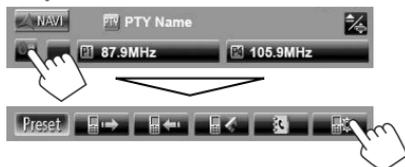
[↺]	Selects Repeat playback mode.*1*2	[−]    ( ) [+]	Adjusts the volume.
[↓↑]	Selects Random playback mode.*1*2	[Mode]	Displays the Bluetooth setting screen. ( <a href="#">page 52</a> )
[▶]	Starts playback.	[AV MENU]	Displays <AV Menu> screen.
[  ]	Pauses.		
[ ◀▶ ]	• Selects track. (Press)		
[▶▶ ]	◆ Reverse/forward search. (Hold)		

\*1 Available only for the devices compatible with AVRCP 1.3.

\*2 To cancel random or repeat mode, press the button repeatedly until the indicator disappears.

## Bluetooth device settings

### Mobile phone



### Bluetooth audio player

On "BT Audio" source control screen:



Menu items	Selectable setting/item	Initial: <u>Underlined</u>
<b>Connection</b>	<ul style="list-style-type: none"> <li>◆ <b>Connect</b> : page 46</li> <li>◆ <b>Disconnect</b> : page 46</li> </ul>	
<b>PIN Code</b>	<p>Changes the PIN code of the unit.</p> <ul style="list-style-type: none"> <li>• Touch the current PIN code, enter a new PIN code, then press [<b>Save</b>].</li> </ul>	
<b>Device Name</b>	Shows the device name to be shown on the Bluetooth device — "JVC Unit."	
<b>Device Address</b>	Shows the MAC address of the unit.	
<b>Phone Device</b> *1	Shows the phone device name.	
<b>Audio Device</b> *2	Shows the audio device name.	
<b>Auto connect</b>	<ul style="list-style-type: none"> <li>◆ <b>Off</b> : Cancels.</li> <li>◆ <b>On</b> : The connection is automatically established with the last connected Bluetooth device when the unit is turned on.</li> </ul>	
<b>HF/Audio Output</b>	<p>Select the speakers used for Bluetooth (both phone use and audio player).</p> <ul style="list-style-type: none"> <li>◆ <b>Front</b> : From front speakers only.</li> <li>◆ <b>All</b> : From all speakers.</li> </ul>	
<b>Initialize</b>	Hold [ <b>Enter</b> ] to clear the registration of Bluetooth devices and memory of the preset list and call lists.	
<b>Auto Answer</b> *1	<ul style="list-style-type: none"> <li>◆ <b>Off</b> : The unit does not answer the calls automatically. Answer the calls manually.</li> <li>◆ <b>On</b> : The unit answers the incoming calls automatically.</li> </ul>	
<b>SMS Notify</b> *1	<ul style="list-style-type: none"> <li>◆ <b>Off</b> : The unit does not inform you of the arrival of a message.</li> <li>◆ <b>On</b> : The unit informs you of the arrival of a message by ringing and displaying "Receiving Message."</li> </ul>	
<b>Ring Mode</b> *1	<ul style="list-style-type: none"> <li>◆ <b>System</b> : Selects the ring tone set on the unit.</li> <li>◆ <b>Phone</b> : Selects the ring tone set on the mobile phone. (This function may not work depending on the mobile phone.)</li> </ul>	
<b>Ring Tone Change</b> *1	<p>When &lt;<b>Ring Mode</b>&gt; is set to &lt;<b>System</b>&gt;, press [<b>Enter</b>], then select the ring tone for received calls and SMS from &lt;<b>Tone1</b>&gt;, &lt;<b>Tone2</b>&gt;, &lt;<b>Tone3</b>&gt;.</p> <ul style="list-style-type: none"> <li>◆ <b>Call Tone</b> : Selects the ring tone for phone calls.</li> <li>◆ <b>Message Tone</b> : Selects the ring tone for SMS.</li> </ul>	

\*1 Appears only for the phone setting screen.

\*2 Appears only for <**Mode**> while "BT Audio" is selected as the source.

# REFERENCE

## Using the remote controller

### Installing the batteries



Insert the batteries into the remote controller by matching the polarity (+ and -) correctly.

### Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

If the effectiveness of the remote controller decreases, replace the batteries.

### Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).

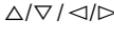
The unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.
- Operations may differ depending on the types of the steering wheel remote control.

## Operations using the remote controller (RM-RK252)

Button	Operations
ATT /  / I	Attenuates/restores the sound.
DISP	Does not function for this unit.
	<ul style="list-style-type: none"> <li>• Selects the preset stations.</li> <li>• Selects a title/item/folder.</li> </ul>
	<ul style="list-style-type: none"> <li>• Searches for stations automatically.</li> <li>• Searches for stations manually. (Hold)</li> <li>• Selects track.</li> <li>• Reverse search/forward search. (Hold)</li> </ul>

Button	Operations
	<ul style="list-style-type: none"> <li>• Reverse search/forward search.</li> <li>• DVD-Video/DVD-VR/VCD: Slow motion playback (during pause). – DVD-VR/VCD: Reverse slow motion does not work.</li> </ul>

Button	Operations
VOL +/VOL -	<ul style="list-style-type: none"> <li>Adjusts the volume level.</li> <li>"2nd VOL" function does not work for this unit.</li> </ul>
SOURCE	Selects the source.
▶/	Starts/pauses* playback.
PHONE / 	Answers incoming calls.
BAND / 	<ul style="list-style-type: none"> <li>Selects the bands.</li> <li>Stops playback.</li> <li>Ends the call.</li> <li>Pauses playback of Bluetooth audio.</li> </ul>
0 - 9 (  page 55)	<ul style="list-style-type: none"> <li>Enters a number while holding SHIFT.</li> <li>"SETUP" function does not work for this unit.</li> </ul>
1 - 6	Enters preset station number while holding SHIFT.
ASPECT	<p>Changes the aspect ratio.</p> <ul style="list-style-type: none"> <li>To check the current aspect ratio setting, operate on the touch panel. ( page 37)</li> </ul>
RETURN	Returns to the previous screen.
TOP M (  page 55)	<ul style="list-style-type: none"> <li>DVD-Video: Shows the disc menu.</li> <li>DVD-VR: Shows the Original Program screen.</li> <li>VCD: Resumes PBC playback.</li> </ul>
MENU (  page 55)	<ul style="list-style-type: none"> <li>DVD-Video: Shows the disc menu.</li> <li>DVD-VR: Shows the Playlist screen.</li> <li>VCD: Resumes PBC playback.</li> </ul>
	<ul style="list-style-type: none"> <li>DVD-Video: Makes selection/settings.</li> <li>DivX: Skips back or forward by about 5 minutes.</li> </ul>

Button	Operations
ENT	Confirms selection.
OSD/*	Does not function for this unit.
DUAL/#	Does not function for this unit.
SHIFT	Functions with other buttons.
DIRECT/CLR	<ul style="list-style-type: none"> <li>Enters direct search mode when pressed with SHIFT button. ( page 55)</li> <li>Erases the misentry when pressed with SHIFT button.</li> <li>"SURROUND" function does not work for this unit.</li> </ul>

\* Does not work while listening to Bluetooth audio.

## Searching for an item directly

### Tuner frequency

- 1 Press DIRECT while holding SHIFT to enter the search mode.
- 2 Press number buttons while holding SHIFT to enter a frequency.
  - To erase a misentry, press CLR (clear) while holding SHIFT.
- 3 Press ENT to confirm the entry.

### DVD-Video/DVD-VR/DivX/MPEG1/MPEG2/JPEG/ MP3/WMA/WAV/VCD/CD

- 1 Press DIRECT while holding SHIFT to enter the search mode.
  - Each time you press DIRECT, the item to search for changes.
- 2 Press a number button while holding SHIFT to select a desired item.
  - To erase a misentry, press CLR (clear) while holding SHIFT.
- 3 Press ENT to confirm the selection.

## ■ Various disc operations

### Using the disc menu

#### • DVD-Video/DVD-VR

- 1 For DVD Video, press TOP M or MENU.  
For DVD-VR, press...
  - TOP M: To display Original Program
  - MENU: To display Playlist
- 2 Press  $\Delta/\nabla$  /  $\leftarrow/\rightarrow$  to select an item you want to start play.
- 3 Press ENT to confirm the selection.

#### • VCD

During PBC playback...

- 1 Press DIRECT while holding SHIFT to enter the search mode.
  - 2 Press a number button while holding SHIFT to select the item you want to play.
  - 3 Press ENT to confirm the selection.
- To return to the previous screen, press RETURN.

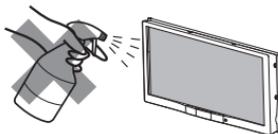
#### To cancel PBC playback

- 1 Press  $\blacksquare$  to stop PBC playback.
  - 2 Press DIRECT while holding SHIFT.
  - 3 Press a number button while holding SHIFT to select a desired track.
  - 4 Press ENT to confirm the selection.
- To resume PBC, press TOP M or MENU.

## Maintenance

### Caution on cleaning the unit

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



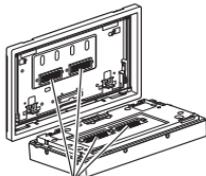
#### Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

### How to clean the connector

Frequent detachment will deteriorate the connectors.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

### Moisture condensation

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

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

### How to handle discs

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



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in their cases after use.

### To keep discs clean

A dirty disc may not play correctly.

If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



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

### To play new discs

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



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

#### Do not use the following discs:

8 cm CD



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



## More about this unit

### ■ File playback

#### Playing DivX files (for discs only)

- This unit can play back DivX files with the extension code <.divx>, <.div>, or <.avi> (regardless of the letter case—upper/lower).
- Audio stream should conform to MP3 or Dolby Digital.
- The file encoded in the interlaced scanning mode may not be played back correctly.
- The maximum bit rate for video signals (average) is 4 Mbps.

#### Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg>, <.mpeg>, or <.mod>.
- The stream format should conform to MPEG system/program stream.  
The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or Dolby Digital.
- The maximum bit rate for video signals (average) is 4 Mbps.

#### Playing JPEG files

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

### Playing MP3/WMA/WAV files

- This unit can play back files with the extension code <.mp3>, <.wma>, or <.wav> (regardless of the letter case—upper/lower).
- This unit can play back the files meeting the conditions below:
  - Bit rate:  
MP3/WMA: 32 kbps — 320 kbps
  - Sampling frequency:  
48 kHz, 44.1 kHz, 32 kHz (for MPEG1)  
24 kHz, 22.05 kHz, 16 kHz (for MPEG2)  
48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz (for WMA)  
44.1 kHz (for WAV)
- This unit can show ID3 Tag Version 1.0/1.1/2.2/3/2.4 (for MP3).
- This unit can also show WAV/WMA Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
  - MP3 files encoded with MP3i and MP3 PRO format.
  - MP3 files encoded with Layer 1/2.
  - WMA files encoded with lossless, professional, and voice format.
  - WMA files which are not based upon Windows Media® Audio.
  - WMA files copy-protected with DRM.

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

■ **Sound signals emitted through the rear terminals**

**Through the analog terminals (Speaker out/REAR OUT/FRONT OUT)**

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

■ **Language codes (for DVD/DivX language selection)**

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

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- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.
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- “Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
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- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Victor Company of Japan, Limited (JVC) is under license. Other trademarks and trade names are those of their respective owners.

### **SAFETY INSTRUCTIONS**

Use of the iPhone Navigation App is only permitted if the traffic conditions are suitable and you are absolutely sure that no risk, obstruction or injury will be incurred to you, your passengers or other road users. The requirements of the Road Traffic Regulations must always be followed and may vary by state. The destination must not be entered while the vehicle is in motion.

iPhone Navigation guidance may not be applicable to the current situation because of changes in traffic conditions (e.g. changes in tollroads, principal roads, one-way traffic, or other traffic regulations). In this case, observe the current traffic signs or regulations.

- Traffic signs should be observed carefully while driving using the iPhone Navigation App. iPhone Navigation App is only an aid. Driver must always decide whether or not to heed the information provided. **JVC does not accept liability for erroneous data provided by the iPhone Navigation App.**
- **Do not operate the unit while driving.**

## Troubleshooting

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

- For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).
- Messages (enclosed in " ") in the tables below are shown in the language selected on <Text Language> (☞ page 42). Messages described here are in the language of this manual.

### ■ If the following messages appear

Message	Remedy/Cause
"No Signal"	<ul style="list-style-type: none"> <li>• Start the playback on the external component connected to VIDEO IN jack.</li> <li>• Check the cords and connections.</li> <li>• Signal input is too weak.</li> </ul>
"Miswiring Check wiring connection and then reset unit" "Warning Check wiring connection and then reset unit"	A speaker cord has shorted or it has come in to contact with the car chassis. Wire or insulate the speaker cord as appropriate, then reset the unit (☞ page 3). See also the Installation/Connection Manual.
"Parking Brake"	No playback picture is shown when the parking brake is not engaged.
"Eject Error"	Eject the disc forcibly. (☞ page 3)
"Loading Error"	
"Restricted Device"	Check whether the connected iPod/iPhone is compatible with this unit. (☞ page 26)
"USB Device Error"	<ul style="list-style-type: none"> <li>• The USB power voltage is abnormal.</li> <li>• Turn off and turn on the unit.</li> <li>• Connect another USB device.</li> </ul>
"No BT Dongle"	Bluetooth adapter (KS-UBT1) is removed.
"Connection Error"	The device is registered but the connection has failed. Connect the registered device. (☞ page 46)
"Please Wait.."	The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again (or reset the unit).
"No Voice Device"	The connected mobile phone does not have the voice recognition system.
"No Data"	No phone book data is contained in the connected Bluetooth phone.
"Initialize Error"	The unit has failed to initialize the Bluetooth module. Try the operation again.
"Dial Error"	Dialing has failed. Try the operation again.
"Hung Up Error"	The call has not ended yet. Park your car, and use the connected mobile phone to end the call.
"Pick Up Error"	The unit has failed to receive a call.
"Pairing Error"	Pairing between the unit and Bluetooth device has failed. Register the device again. (☞ page 45)

■ If there seems to be a problem

	Symptom	Remedy/Cause
General	No sound comes out of the speakers.	<ul style="list-style-type: none"> <li>Adjust the volume to the optimum level.</li> <li>Check the cords and connections.</li> </ul>
	No picture is displayed on the screen.	Turn on the screen. (☞ page 8)
	The unit does not work at all.	Reset the unit. (☞ page 3)
	<Display Sensor> function does not work properly.	The sensor display may malfunction when there is an object close to the motion sensor. In this case, select <High> for <Sensitivity>. (☞ page 41)
	The remote controller does not work.	<ul style="list-style-type: none"> <li>Deactivate the rear source. (☞ page 31) (While the rear source is activated, the remote controller only functions for operating the DVD/CD player.)</li> <li>Replace the battery.</li> </ul>
TUNER	SSM automatic presetting does not work.	Store stations manually. (☞ page 14)
	Static noise while listening to the radio.	Connect the antenna firmly.
Disc in general	Disc can be neither recognized nor played back.	Eject the disc forcibly. (☞ page 3)
	Disc cannot be ejected.	Unlock the disc. (☞ page 17)
	<ul style="list-style-type: none"> <li>Recordable/Rewritable discs cannot be played back.</li> <li>Tracks on the Recordable/Rewritable discs cannot be skipped.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a finalized disc.</li> <li>Finalize the discs with the component which you used for recording.</li> </ul>
	Playback does not start.	The format of files is not supported by the unit.
	No picture appears on the external monitor.	<ul style="list-style-type: none"> <li>Connect the video cord correctly.</li> <li>Select the correct input on the external monitor.</li> </ul>
DivX/MPEG1/MPEG2/ JPEG/MP3/WMA/WAV	Disc cannot be played back.	<ul style="list-style-type: none"> <li>Record the tracks using a compliant application on the appropriate discs. (☞ page 18)</li> <li>Add appropriate extension codes to the file names.</li> </ul>
	Tracks are not played back as you have intended them to play.	Playback order may differ from the one played back using other players.

	Symptom	Remedy/Cause
USB	"Now Reading..." keeps flashing on the screen.	Turn off the power and on again.
	While playing a track, sound is sometimes interrupted.	The tracks are not properly copied into the USB device. Copy tracks again, and try again.
iPod/iPhone	No sound comes out of the speakers.	<ul style="list-style-type: none"> <li>• Disconnect the iPod, then connect it again.</li> <li>• Select another source and then reselect "iPod".</li> </ul>
	The iPod/iPhone does not turn on or does not work.	<ul style="list-style-type: none"> <li>• Check the connecting cable and its connection.</li> <li>• Update the firmware version.</li> <li>• Charge the battery.</li> <li>• Check whether the iPod control mode is correctly selected. (☞ page 26)</li> <li>• Reset the iPod/iPhone.</li> </ul>
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	A lot of noise is generated.	Turn off (uncheck) the "VoiceOver" feature of the iPod. For details, visit < <a href="http://www.apple.com">http://www.apple.com</a> >.
	No operations are available when playing back a track containing Artwork.	Operate the unit after the Artwork is loaded. (☞ page 27)
	Sound does not synchronize with the video.	Select <iPod> for both <Audio Input> and <Video Input>. (☞ page 41)
AV-IN	No picture appears on the screen.	<ul style="list-style-type: none"> <li>• Turn on the video component if it is not on.</li> <li>• Connect the video component correctly.</li> </ul>

	Symptom	Remedy/Cause
Bluetooth	Phone sound quality is poor.	<ul style="list-style-type: none"> <li>• Reduce the distance between the unit and the Bluetooth mobile phone.</li> <li>• Move the car to place where you can get a better signal reception.</li> </ul>
	The sound is interrupted or skipped while using a Bluetooth audio player.	<ul style="list-style-type: none"> <li>• Reduce the distance between the unit and the Bluetooth audio player.</li> <li>• Disconnect the device connected for Bluetooth phone.</li> <li>• Turn off, then turn on the unit.</li> <li>• (When the sound is not yet restored) connect the player again.</li> </ul>
	The connected audio player cannot be controlled.	Check whether the connected audio player supports AVRCP (Audio Video Remote Control Profile).
	Bluetooth device does not detect the unit.	<ul style="list-style-type: none"> <li>• Check whether the Bluetooth adapter (KS-UBT1) is inserted correctly.</li> <li>• Search from the Bluetooth device again.</li> <li>• When "Waiting..." appears on the screen, press <b>[Cancel]</b> then connect a Bluetooth device.</li> </ul>
	The unit does not make pairing with the Bluetooth device.	Enter the same PIN code for both the unit and target device. If the PIN code of the device is not indicated on its instructions, try "0000" or "1234."
	Echo or noise occurs.	Adjust the microphone unit position.
	The unit does not respond when you try to copy the phone book to the unit.	You may have tried to copy the same entries (as stored) to the unit.

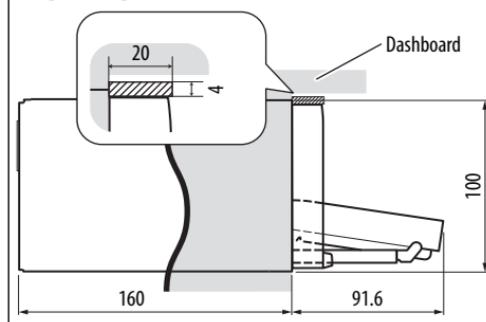
## Specifications

AMPLIFIER	Maximum Power Output	Front/Rear	50 W per channel	
	Continuous Power Output (RMS)	Front/Rear	20 W per channel into 4 $\Omega$ , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion	
	Load Impedance		4 $\Omega$ (4 $\Omega$ to 8 $\Omega$ allowance)	
	Equalizer Control Range Level		$\pm$ 12 dB	
	Signal-to-Noise Ratio		70 dB	
	Audio Output Level FRONT OUT, REAR OUT, SUBWOOFER OUT	Line-Out Level/Impedance		4 V/20 k $\Omega$ load (full scale)
		Output Impedance		1 k $\Omega$
	Video Output (composite) VIDEO OUT	Color System		PAL/NTSC
		Video-Out Level/Impedance		1 Vp-p/75 $\Omega$
	Other Terminals	Input		LINE IN, VIDEO IN, CAMERA IN, USB input, MIC IN, AUX, Antenna input
Output			2nd AUDIO OUT	
Others			OE REMOTE, RGB input	
FM/AM TUNER	Frequency Range	FM	87.5 MHz to 108.0 MHz	
		AM	531 kHz to 1 611 kHz	
	FM Tuner	Usable Sensitivity		9.3 dBf (0.8 $\mu$ V/75 $\Omega$ )
		50 dB Quieting Sensitivity		16.3 dBf (1.8 $\mu$ V/75 $\Omega$ )
		Alternate Channel Selectivity (400 kHz)		65 dB
		Frequency Response		40 Hz to 15 000 Hz
		Stereo Separation		40 dB
	AM Tuner	Sensitivity/Selectivity		20 $\mu$ V/40 dB
DVD/CD	Signal Detection System	Non-contact optical pickup (semiconductor laser)		
	Frequency Response	DVD, fs=48 kHz/96 kHz	16 Hz to 22 000 Hz	
		VCD/CD	16 Hz to 20 000 Hz	
	Dynamic Range	93 dB		
	Signal-to-Noise Ratio	95 dB		
Wow and Flutter	Less than measurable limit			

USB	USB Standards	USB 2.0 Full Speed		
	Data Transfer Rate	Full Speed	Maximum 12 Mbps	
		Low Speed	Maximum 1.5 Mbps	
	Compatible Device	Mass storage class		
	Compatible File System	FAT 32/16/12		
Max. Current	DC 5 V $\pm$ 1 A			
BLUETOOTH	Version	Bluetooth 2.0 certified		
	Output Power	+4 dBm Max. (Power class 2)		
	Service Area	Within 10 m		
	Profile	HFP (Hands-Free Profile) 1.5 OPP (Object Push Profile) 1.1 A2DP (Advanced Audio Distribution Profile) 1.2 AVRCP (Audio/Video Remote Control Profile) 1.3 PBAP (Phone Book Access Profile) 1.0		
MONITOR	Screen Size	7 inch wide liquid crystal display		
	Number of Pixel	1 152 000 pixels: 800 (horizontal) $\times$ 3 (RGB) $\times$ 480 (vertical)		
	Drive Method	TFT (Thin Film Transistor) active matrix format		
	Color System	PAL/NTSC		
	Aspect Ratio	16:9 (wide)		
GENERAL	Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)	
	Grounding System	Negative ground		
	Allowable Storage Temperature	-10°C to +60°C		
	Allowable Operating Temperature	0°C to +40°C		
	Dimensions (W $\times$ H $\times$ D)	Installation Size (approx.)	182 mm $\times$ 111 mm $\times$ 160 mm	
		Panel Size (approx.)	188 mm $\times$ 117 mm $\times$ 10 mm	
	Mass (approx.)	2.5 kg		

Design and specifications are subject to change without notice.

### Required space for installation and the monitor ejection



**CAUTION:** When ejecting the monitor, leave an open space for the monitor to come out. If you do not, the monitor may obstruct the steering wheel and gearshift lever operations, and this may result in a traffic accident.

Unit: mm



## ■ The countries where you may use the Bluetooth® function

- Die Länder, in denen Sie die Bluetooth® Funktion verwenden können
- Pays où vous pouvez utiliser la fonction Bluetooth®
- De landen waar u de Bluetooth®-functie mag gebruiken
- Países en los que se puede utilizar la función Bluetooth®
- Paesi nei quali è possibile utilizzare la funzione Bluetooth®
- Länder där du kan använda Bluetooth®-funktionen
- Lande, hvor du kan bruge Bluetooth®-funktioner
- Land hvor du kan bruke Bluetooth®-funksjonen
- Maat, joissa voi käyttää Bluetooth®-toimintoa
- Países onde pode usar a função Bluetooth®
- Οι χώρες όπου μπορείτε να χρησιμοποιήσετε τη λειτουργία Bluetooth®
- Страны, где можно воспользоваться функцией Bluetooth®
- Země, ve kterých můžete využívat funkci Bluetooth®
- Azok az országok, amelyekben használhatjuk a Bluetooth®-funkciót
- Kraje, w których można używać funkcji Bluetooth®
- Države, kjer lahko uporabljate funkcijo Bluetooth®
- Krajiny, v ktorých môžete využívať funkciu Bluetooth®
- Valstis, kur jūs varat izmantot Bluetooth® funkciju
- Šalys, kuriose galite naudotis „Bluetooth®“ funkcija
- Il-pajjizi fejn tista' tuża l-funzjoni Bluetooth®
- Lönd þar sem hægt er að nota Bluetooth®
- Riigid, kus on võimalik kasutada Bluetooth® funktsiooni
- Bluetooth® fonksiyonunu kullanabileceğiniz ülkeler
- Na tíortha inar féidir leat feidhmiú Bluetooth® a úsáid
- Länner an denen der d'Bluetooth® Funktioun benotze könnt.
- Ở những quốc gia mà bạn có thể sử dụng chức năng Bluetooth®
- Els països on podrà fer servir la funció Bluetooth®
- Zemlje u kojima je dozvoljena upotreba Bluetooth® funkcije.
- Zemlje u kojima možete koristiti Bluetooth® funkciju
- Zemlje u kojima je dopušteno koristiti Bluetooth®.
- Земљи каде можете да ја користите функцијата Bluetooth®
- Страните, в които можете да ползвате функцията Bluetooth®
- Țările în care puteți utiliza funcția Bluetooth®
- Die lande waar u die Bluetooth®-funksie kan gebruik
- Amazwe lapho ungasebenzisa khona uhlelo lwe-Bluetooth®
- Ang mga bansa kung saan maaari kang gumamit ng Bluetooth® function
- Negara-negara yang anda boleh menggunakan fungsi Bluetooth®
- 您能够使用 Bluetooth® 功能的国家
- 您能夠使用 Bluetooth® 功能的國家
- Bluetooth® 기능을 사용할 수 있는 국가
- الدول التي يمكنك استخدامها وظيفة Bluetooth® فيها

Country
Andorra
الإمارات العربية المتحدة
Australia
Österreich
Bosna i Hercegovina
Belgien
Belgique
България
Canada
Schweiz
Suisse
Chile
Κύπρος
Kıbrıs
Česká republika
Deutschland
Danmark
Eesti
España
Suomi
Finland
France
United Kingdom
Ελλάδα
Hong Kong
香港
香港
Hrvatska
Magyarország
Ireland
Éire

Country
Ísland
Italia
대한민국
Lichtenstein
Lietuva
Luxemburg
Luxembourg
Lëtzebuerg
Latvija
Monaco
Crna Gora
Македонија
Malta
Malaysia
Nederland
Norge
New Zealand
Perú
Philippines
Pilipinas
Polska
Portugal
România
Srbija
Россия
Sverige
Singapore
新加坡
Singapura
Slovenija
Slovensko

Country
Türkiye
台灣
United States of America
Venezuela
Vietnam
Việt Nam
South Africa
ENgizimu Afrika
Suid-Afrika

**Having TROUBLE with operation?**  
**Please reset your unit**  
Refer to page of How to reset your unit

**JVC**



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