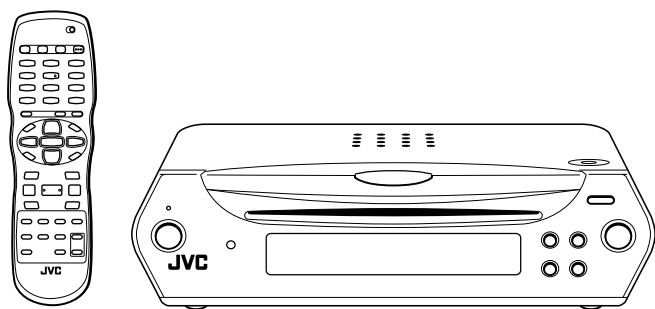


JVC

DVD VIDEO PLAYER

XV-C5SL



DVD
VIDEO

DOLBY
DIGITAL

3D
3D-PHONIC

dts
DIGITAL OUT

COMPACT
disc
SUPER VIDEO

MPEG

Multichannel

INSTRUCTIONS

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LET0227-003A
[B]

Warnings, Cautions and Others

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT.

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.


IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

Caution —  STANDBY/ON button!

Disconnect the mains plug to shut the power off completely. The  STANDBY/ON button in any position does not disconnect the mains line. The power can be remote controlled.

CAUTION:

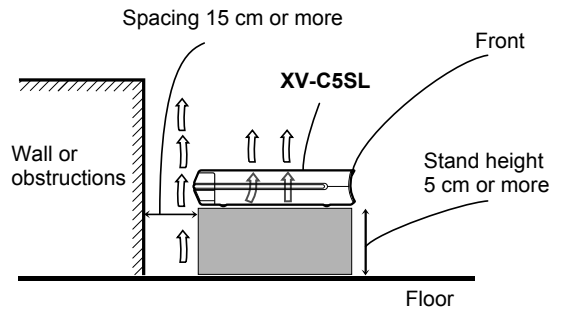
- Do not block the ventilation openings or holes.
(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage.

Locate the apparatus as follows:

- Front: No obstructions and open spacing.
Sides: No obstructions in 3 cm from the sides.
Top: No obstructions in 5 cm from the top.
Back: No obstructions in 15 cm from the back
Bottom: No obstructions, place on the level surface.



The above illustration shows the case using the horizontal installation. For the other installations, locate the unit conforming to the above illustration and provide sufficient space around 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 invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til strålingen. (e)	VARNING: Synlig och osynlig laserstråling när den öppnas och spårren är urkopplad. Beträkta ej strålen. (d)	VARO: Avattassa ja suoja-akkuks ohjeittuna tai viiallisena olet alituna näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)
--------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Supplied accessories

Check that you have all the following accessories supplied to you. If anything is missing, consult your dealer immediately.

- Audio/video cable (Yellow/White/Red) (× 1)
- Remote control unit (× 1)
- R6P(SUM-3)/AA(15F) battery (× 2)
- Stand (× 1)
- Cover (× 1)

About this manual

- The display window information and OSD (On Screen Display) menu items are put in brackets [] in the operation procedures.
- Usable disc(s) for each operation/function is (are) referred to by the icons;



Precautions

Notes on the power cord

- When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet. A small amount of power (0.7W) is always consumed while the power cord is connected to the wall outlet.
- When unplugging the unit from the wall outlet, always pull the plug, not the power cord.
- Do not handle the power cord with wet hands!

Avoid moisture, water and dust

- Do not place the unit in moist or dusty places.
- If water gets inside the unit, turn off the power and remove the plug from the wall outlet, then consult your dealer. Using the unit in this state may cause a fire or electrical shock.

Avoid high temperatures

- Do not expose the unit to direct sunlight or place it near a heating device.

Notes on installation

- Select a place which is level, dry and neither too hot nor too cold between 5°C and 35°C.
- Leave sufficient distance between the unit and the TV.
- Do not install the unit in a place subject to vibrations.

To prevent malfunction of the unit

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic objects, such as wires, hairpins, coins, etc. into the unit.
- Do not block the vents. Blocking the vents may damage the unit.

To clean the cabinet

- Use a soft cloth. Follow the relevant instructions on the use of chemically-coated cloths.
- Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

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Before operation

About discs

Playable disc types

Discs with the following marks can be played back on the unit.

DVD VIDEO	SVCD	Video CD	Audio CD
		 	

The DVD Logo is a trademark.

The unit can also play back the following discs:

- DVD-R, DVD-RW and +RW discs written in the DVD VIDEO format and finalized
- CD-R and CD-RW discs written in the SVCD, Video CD or Audio CD format and finalized
- CD-R and CD-RW discs written in MP3 in accordance with the "ISO 9660" format (See page 26 for details.)
- CD-R and CD-RW discs written in JPEG in accordance with the "ISO 9660" format (See page 29 for details.)

NOTE

If a disc gets dirty, scratched or warped, or due to the disc characteristics or recording conditions, it may take considerable time for the unit to read the content, or the unit may not be able to play back such discs.

The unit can play back audio signals recorded in MIX-MODE CD, CD-G, CD-EXTRA and CD TEXT.

Region code of DVD VIDEO

This unit can play back DVD VIDEO discs whose region code numbers include "2."

Examples of playable DVD VIDEO discs:



NOTE

The unit's region code is printed on the bottom of the unit.

Color system format

This unit accommodates the PAL system, and also can play back discs recorded with NTSC system whose Region Code numbers include "2."

Note that the NTSC video signal on a disc is converted to a PAL signal and output.

Unplayable discs

The unit does not play back discs listed below. If you try to play back these discs, noise may generate causing damage to speakers.

- DVD-RW discs written in the VR format
- DVD-ROM, DVD-RAM, DVD AUDIO, CD-ROM, PHOTO CD, SACD

In addition, the unit does not play:

- Unfinalized discs
- Discs of irregular shape or discs with tape, seals or paste on either the label side or playback side. Playing back these discs may damage the unit.

Digital audio formats

The unit supports the following digital audio formats (see page 44 "Glossary" for descriptions of each audio format):

Linear PCM, MPEG Multichannel, Dolby Digital, DTS (Digital Theater Systems)

NOTES

- Depending on the unit's [DIGITAL AUDIO OUTPUT] setting, digital audio signals may not be output as they are recorded on the disc. See "DIGITAL AUDIO OUTPUT" on page 34 for details.
- To play back DTS-encoded DVD VIDEO or DTS-encoded Audio CD discs correctly, connect the unit to an amplifier with a built-in DTS decoder. If the unit is connected to an amplifier without a DTS decoder, playback sound will be distorted.

Notes on discs

- With some DVD VIDEO discs, the unit starts playback automatically after inserting the disc.
- The image may be sometimes poor or noisy due to defects in the disc itself.
- With some discs, operations described in this manual may not be possible.

Care and handling of discs

If a disc gets dirty, dusty, scratched or warped, playback sound and picture may be deteriorated. Take proper precautions when handling discs.

Handling

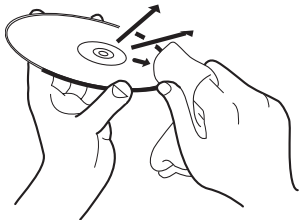
- Do not touch the surface of the disc.
- Do not damage, stick paper to, or use any adhesive on either the label side or playback side.

Storing discs

- Keep discs in their cases. If discs are piled on top of one another without their protective cases, they can be damaged.
- Do not put discs in a location where they may be exposed to direct sunlight, or where the humidity or temperature is high. Avoid leaving discs in a car!

Cleaning discs

- Wipe with a soft dry cloth, moving from the center outwards. If a disc is difficult to clean, wipe with a cloth moistened with water.



- Never use record cleaners, petrol, alcohol or any anti-static agents.

Notes on copyright

Check the copyright laws in your country before recording from DVD VIDEO, SVCD, Video CD, Audio CD, MP3 and JPEG discs.

Recording of copyrighted material may infringe copyright laws.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Preparations

Connections

Before using the unit, connect the unit to a TV and/or amplifier.

Before making connections

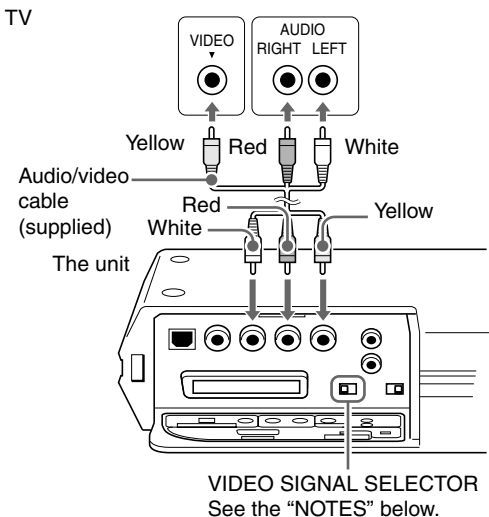
- Do not connect the AC power cord until all other connections have been made.
- Connect VIDEO OUT of the unit directly to the video input of your TV. Connecting VIDEO OUT of the unit to a TV via a VCR may cause a monitor problem when playing back a copy-protected disc. You may also have a monitor problem when connecting the unit to an integrated TV/Video system.
- When you use a commercial cable, be sure to check the cable size, flexibility, and the size of the plug, and use an equivalent one. When you do not use the equivalent one, the cover may not be able to be attached.
- Before connection, install the unit and set the DIRECTION switch on the rear of the unit according to your installation (see page 6).

- In the following description, "TV" may be substituted with "monitor" or "projector."
- Terminal names used for other components may be different from those used in the following description.
- For details on how to attach the cover, see page 6.

Connecting to a TV

The following sections (A) and (B) describe TV connections where only a TV is connected to the unit so that you will hear audio from the TV.

(A) Connecting to a conventional TV



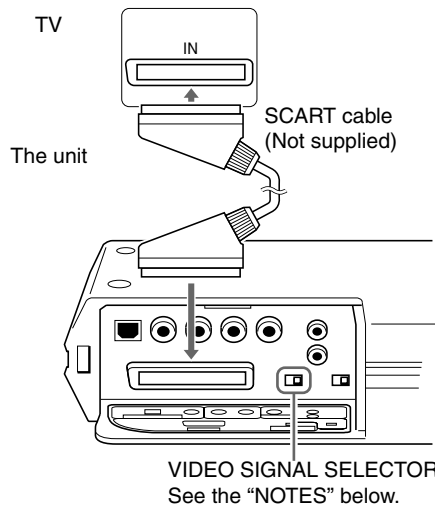
This illustration is upside down. (The bottom side is up.)
For details on the connectors' name, see page 38.

NOTES

- In this connection, set the VIDEO SIGNAL SELECTOR to "COMP./RGB."
- If your TV has a monaural audio input instead of stereo, you need to use an optional audio cable which converts stereo audio output to monaural.

(B) To connect to a TV with the SCART connector

You can enjoy using the unit by simply connecting it to your television set with a 21-pin SCART cable.



This illustration is upside down. (The bottom side is up.)
For details on the connectors' name, see page 38.

NOTES

- In this connection, you need to set the VIDEO SIGNAL SELECTOR correctly according to your TV. See below for details.
- Do not connect multiple devices using multiple connectors.

Set the VIDEO SIGNAL SELECTOR correctly according to your TV

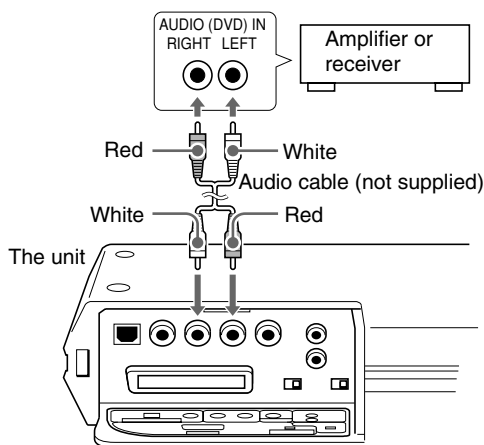


- If your TV only accommodates the composite video signal, set the VIDEO SIGNAL SELECTOR to "COMP./RGB."
- If your TV accommodates Y/C signals, set the VIDEO SIGNAL SELECTOR to "Y/C" so that you can enjoy better-quality pictures. "S VIDEO" is indicated on the display window.
- If your TV accommodates RGB signals, set the VIDEO SIGNAL SELECTOR to "COMP./RGB."

Connecting to optional audio equipment

Connecting to a stereo audio amplifier/receiver

Connect the unit's AUDIO OUT (LEFT/RIGHT) jacks to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.



This illustration is upside down. (The bottom side is up.)
For details on the connectors' name, see page 38.

NOTE

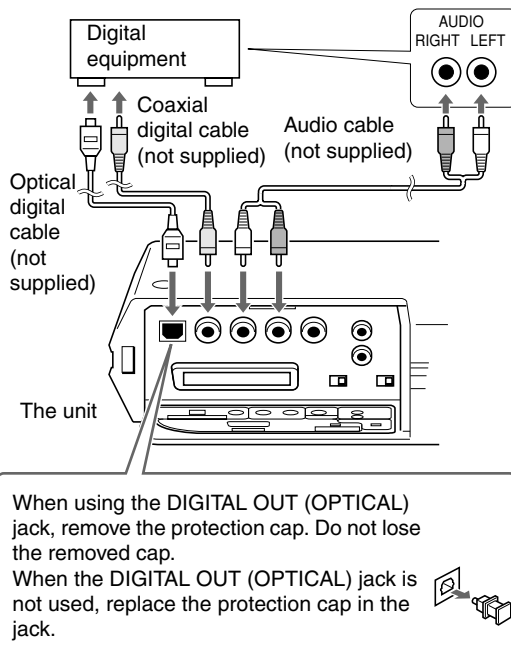
Sound recorded on DTS-encoded DVD VIDEO or DTS-encoded Audio CD discs are not output from the analog (AUDIO OUT LEFT/RIGHT) jacks of the unit.

Connecting to a digital audio device

You can enjoy sound of enhanced quality by connecting the unit's DIGITAL OUT (either OPTICAL or COAXIAL) jack to a digital input of an amplifier, etc., using an optical or coaxial digital cable. The digital audio signal on a disc will be transferred directly from the unit. If the connected digital audio equipment is a Dolby Digital or DTS decoder or an amplifier with a built-in decoder, you can enjoy high-quality surround sound.

NOTES

- Connect the unit and the digital audio device by using either an optical digital cable or a coaxial digital cable.
- It is not recommended to use the digital jacks for dubbing. When recording the sounds (DVD VIDEO, SVCD, Video CD or Audio CD) played back on the unit, record them through the analog jacks.
- Depending on the disc, no signal may be output from the DIGITAL OUT. Make an analog connection in this case.
- **Set [DIGITAL AUDIO OUTPUT] in the [AUDIO] preference display correctly according to the connected digital audio equipment. If setting made for [DIGITAL AUDIO OUTPUT] is incorrect, loud noise may be generated causing damage to the speakers (see page 34).**



This illustration is upside down. (The bottom side is up.)
For details on the connectors' name, see page 38.

Preparations

Connecting the power cord

When all the audio/video connections have been made, connect the AC power plug to the wall outlet. Make sure that the plugs are inserted firmly. The STANDBY indicator lights in red.

Warning

- Disconnect the power cord:
 - if you are not going to use the unit for a long time.
 - before cleaning the unit.
 - before moving the unit.
- Do not:
 - connect or disconnect the power cord with wet hands.
 - pull the power cord when disconnecting it, as this may damage the cord and cause fire, electric shock, or other accidents.

Caution

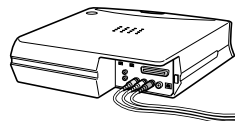
- Do not alter, twist or pull the power cord, or put anything heavy on it, which may cause fire, electric shock, or other accidents.
- If the cord is damaged, consult a dealer and have the power cord replaced with a new one.

Installation

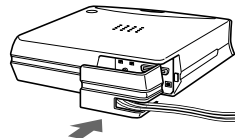
You can select one of the following four installations. According to your installation, set the DIRECTION switch on the rear of the unit. When setting the DIRECTION switch, set it during standby mode. When you set the DIRECTION switch with the unit powered on, turn the unit off and on. For the location of the DIRECTION switch, see page 38.

How to attach the cover

Combine the connected cables and power cord, then position them on the side of the unit.

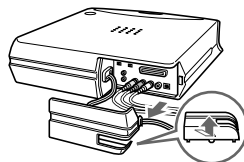


Attach the cover in order not to pinch the cables.



To remove the cover

Pull the cover with the mark pushed down slightly.



Horizontal installation

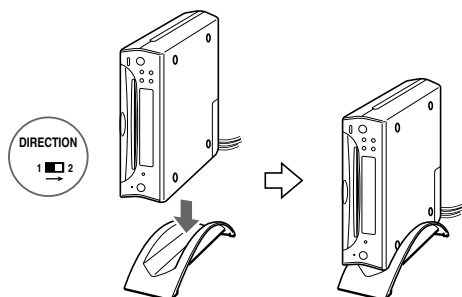
Be sure to set the DIRECTION switch on the rear of the unit to "1."



Vertical installation

Be sure to install the unit aligning the ▼ mark on the unit and the ▲ mark on the stand and be careful not to pinch the cables.

Be sure to set the DIRECTION switch on the rear of the unit to "2."



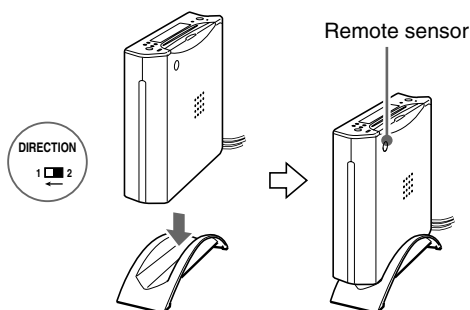
NOTES

- Do not install the unit in the opposite direction without aligning the marks. The unit is misaligned from the stand.
- When you move the unit, be sure to hold not the stand but the unit itself. If you hold the stand, the unit may come off.
- Do not install the unit vertically without attaching the stand. The unit may fall down.

Face-up installation

Be sure to install the unit aligning the ▼ mark on the unit and the ▲ mark on the stand and be careful not to pinch the cables.

Be sure to set the DIRECTION switch on the rear of the unit to "1."



NOTES

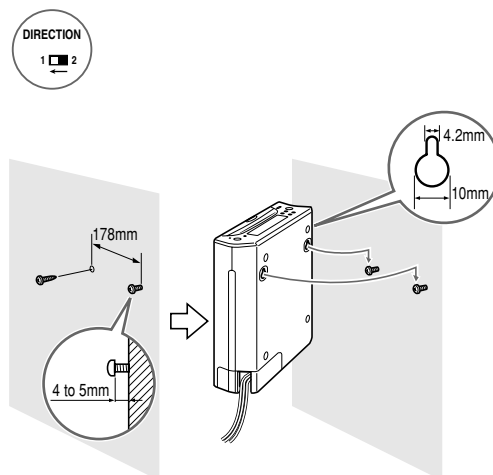
- Do not install the unit in the opposite direction without aligning the marks. The unit is misaligned from the stand.
- When you move the unit, be sure to hold not the stand but the unit itself. If you hold the stand, the unit may come off.
- Do not install the unit with its face upward without attaching the stand. The unit may fall down.

- Set the unit with the remote sensor faced toward you. If the remote sensor is located on the opposite direction, the remote control unit does not work.

Installation on the wall

Peel off the stickers on the bottom of the unit, hook the unit onto the screws. Slide the unit downward to secure it.

Be sure to set the DIRECTION switch on the rear of the unit to "1."



Mount two commercial screws onto the wall with each screw located in the same height.

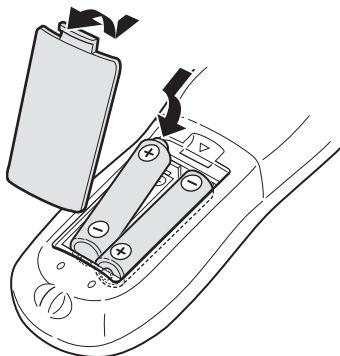
CAUTIONS

- The unit weights approximately 1.7 kg. When its buttons are operated, an additional force will be applied to it in the downward direction. Therefore, sufficient care must be taken when attaching to a wall to prevent any accidents caused by the unit's falling off the wall.
- The screws needed for attachment are not supplied. Use screws which are compatible with the strength and material of the pillar or wall.
- Care is required in selecting a location for attaching the unit to the wall injury to personnel, or damage to the unit, may result if the unit is attached in a location which interferes with daily activities or a location that the users are liable to knock their bodies or heads against.
- Avoid a location above a bed, sofa, water tank, sink, etc. or in a passage.
- Do not hang from the unit or try to climb on the unit.
- If the unit falls down, disconnect the power cord at once. Then, consult your dealer. Using the unit as is may cause an electric shock or a fire.

Using the remote control unit

To install batteries

Open the compartment cover, and place the two supplied R6P (SUM-3)/AA(15F) batteries in the remote control unit according to the polarity markings (“+” and “-”) inside the compartment. Then replace the cover.



The batteries will last about six months with normal use. If the functions of the remote control unit become erratic, replace the batteries.

Precautions of the safe use of batteries

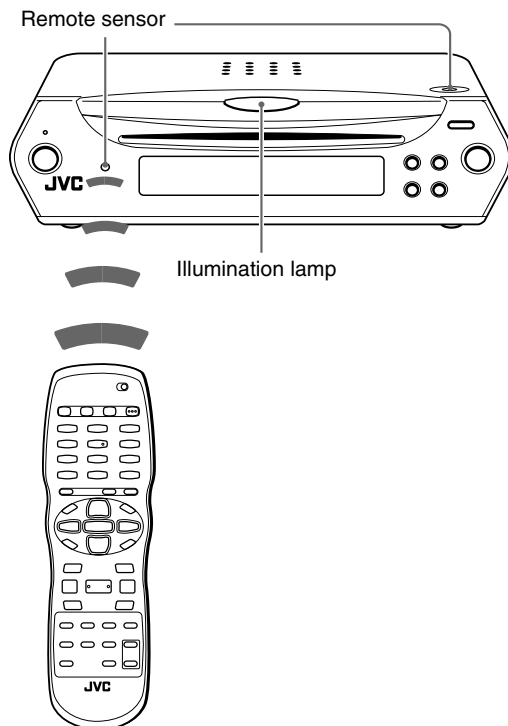
Observe the following precautions for the safe use of batteries. If they are used improperly their lives will be shortened, they may burst or their contents may leak.

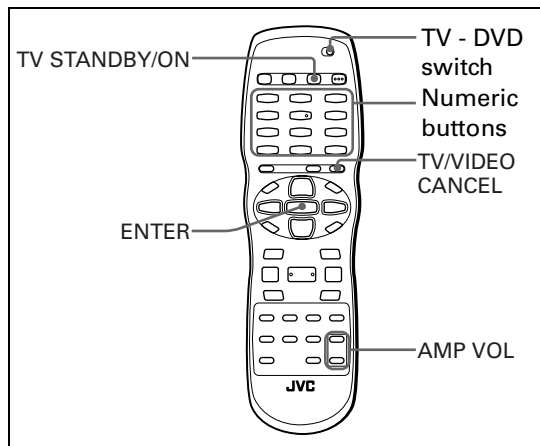
- Remove the batteries from the remote control unit if it is not going to be used for a long period of time.
- Remove dead batteries and dispose of them properly.
- Never leave dead batteries lying around, take them apart, mix them with other refuse, or throw them into an incinerator.
- Never touch liquid that has leaked out of a battery.
- Do not mix new and old batteries, or batteries of different types, when replacing them.

Remote sensor

Point the top of the remote control unit toward the remote sensor as directly as possible. If you operate it from a diagonal position, the operating range (approx. 5 m) may be shorter.

The illumination lamp flashes in a few seconds when the unit receives the remote signal from the remote control unit.





To use the remote control unit for TV operation

You can operate your TV from the remote control unit.

To set the remote control signal for operating your TV

- 1 Set the TV - DVD switch to "TV."
- 2 Hold down TV/VIDEO - CANCEL until step 4 is finished.
- 3 Enter the manufacturer code of your TV listed below by using the numeric buttons (0 to 9).

Example for a JVC TV:

To enter the manufacturer code "01": Press "0" then "1."

Hint

When the unit is shipped, the manufacturer code is set to "JVC" (01).

- 4 Press ENTER.

Manufacturer code list

Manufacturer	No.	Manufacturer	No.
AIWA	36	MIVAR	29
BEIJING	22	NEC	20
CCE	02	NOBLEX	22
CHANGHONG	34	NOKIA	31
DAEWOO	17, 37	PANASONIC	04, 11
FERGUSON	27	PEONY	34, 38, 39
FINLUX	30	PHILCO	10, 17, 21
FUNAI	32	PHILIPS	02
GRADIENTE	15, 20	RCA	05
GRUNDIG	19	SAMSUNG	12, 33, 34, 35
HITACHI	10		
ITT	28	SANYO	13, 16
JINXING	38	SEARS	13

Manufacturer	No.	Manufacturer	No.
JVC	01, 23, 24, 25	SHARP	06
		SONY	07
KONKA	40	TCL	41
LG (GOLDSTAR)	18	THOMSON	26
MAGNAVOX	02	TOSHIBA	08, 14
MITSUBISHI	03	ZENITH	09

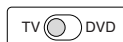
- 5 Release TV/VIDEO - CANCEL.

- 6 Try to operate the TV by pressing TV STANDBY/ON .

If your TV turns on or off, you have successfully set the control signal.

The following buttons can be used for operating the TV.

To use ▲/▼(CH+, CH-), ◀▶(VOL-, VOL+), TV/ VIDEO - CANCEL and numeric buttons for TV control, set the TV - DVD switch to "TV."



	Turns the TV on or off.
	Switches the TV input mode between TV and VIDEO.
	Selects the TV channels directly. * For some TVs, pressing "+10" functions as the "100+," while "10" functions as the ENTER button if your TV requires pressing the ENTER button after selecting a channel number.
	Mutes the TV sound.
	Changes the TV channels.
	Adjusts the TV volume.

NOTE

If there is more than one code listed for the manufacturer of your TV, try them one by one until you succeed.

To control the volume of a JVC's amplifier or receiver

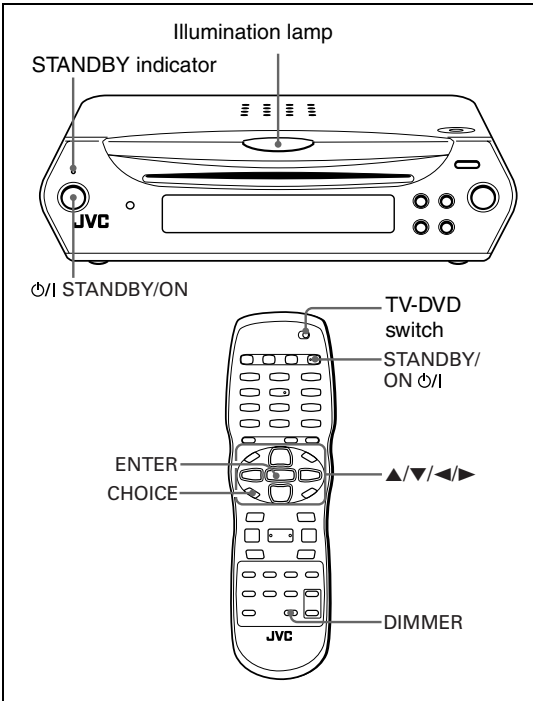
You can control the volume of a JVC's amplifier or receiver by using the AMP VOL +/- buttons on the remote control unit.




Pressing the AMP VOL + button raises the audio volume of the amplifier or receiver, while pressing the AMP VOL- button lowers the volume.

Preparations



Basic operations





Note

 Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶ and numeric buttons for controlling the unit.

About invalid operation icon

When you press a button, and if the unit does not accept its operation,  appears on your TV screen. Operations are occasionally unacceptable even if  is not displayed. Note that some operations may not be accepted. For example, some discs may not allow rapid advance/reverse or slow-motion playback.

Turning on/off the unit

Press STANDBY/ON  on the remote control unit or press  STANDBY/ON on the front panel.

The STANDBY indicator on the front panel, which lights in red during standby, goes off and the illumination lamp lights.

The opening display appears on the TV screen, and the following messages may appear at the bottom of the opening display.



- NOW READING (The unit is reading the disc information.)
- REGION CODE ERROR! (The region code of the DVD VIDEO disc does not match the unit. The disc cannot be played back.)
- EJECT
- LOADING
- NO DISC

NOTE

Even if you turn off the unit, the unit is not disconnected from the AC power source as long as it is connected to the wall outlet. This state is called standby mode. In this state, the unit consumes a very small amount of power.

Initial setup

When you turn on the unit for the first time after purchase, the following message appears on the TV screen.

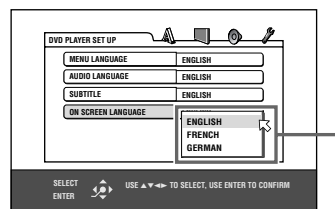
EXECUTE DVD PLAYER SETUP? - BASIC
PICTURE/AUDIO SETTING
YES - PRESS ENTER NO - CANCEL

You can set the display language, TV monitor type and digital output before using the unit, by following the procedure below.

1 Press ENTER.

The first page of the DVD PLAYER SET UP display appears.

The pull-down menu of the [ON SCREEN LANGUAGE] is already open.



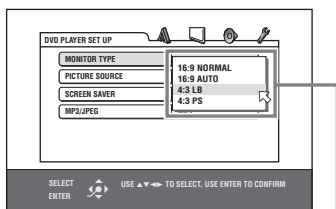
ON SCREEN LANGUAGE options

2 Press ▲/▼ to select the desired language.

You can select the on-screen language for the preference displays, etc. from among ENGLISH, FRENCH and GERMAN.

3 Press ENTER.

The second page is shown, in which the pull-down menu of the [MONITOR TYPE] is already open.



MONITOR TYPE options

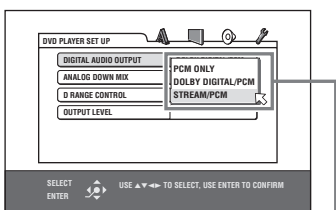
4 Press ▲/▼ to select the desired monitor type.

For a normal (conventional) TV, select [4:3 LB] or [4:3 PS].

For a wide-screen TV, select [16:9 NORMAL] or [16:9 AUTO]. (See page 33)

5 Press ENTER.

The third page is shown, in which the pull-down menu of the [DIGITAL AUDIO OUTPUT] is already open.



DIGITAL AUDIO OUTPUT options

6 Press ▲/▼ to select a desired digital output signal type.

Set this item correctly when you connect the unit to an external surround decoder or D/A converter. (If you do not connect the unit to such a device, you do not have to set this item.)

- When connecting to a DTS, MPEG Multichannel, and DOLBY Digital decoder, select [STREAM/PCM].
- When connecting to a Dolby Digital decoder, select [DOLBY DIGITAL/PCM].
- When connecting to other digital device, select [PCM ONLY].

7 Press ENTER.

The TV screen returns to the opening display.

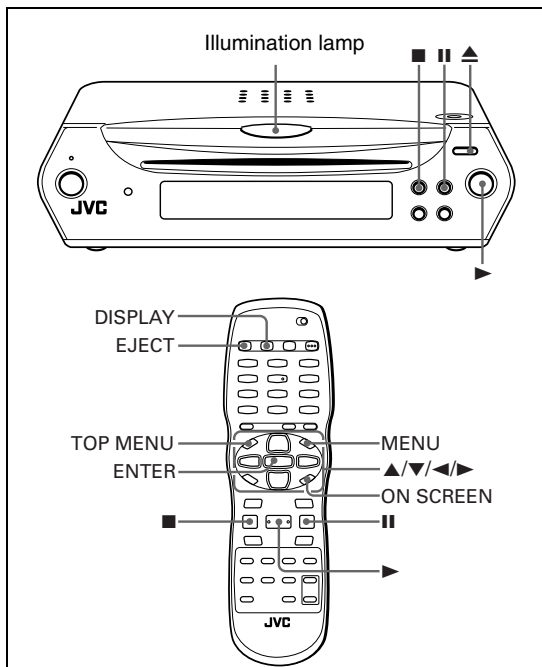
To bring up the DVD PLAYER SET UP display later

Press CHOICE for a few seconds until the DVD PLAYER SET UP display appears.

To change the brightness of the display window

Press DIMMER on the remote control unit. You can select the display window brightness from three levels and off.

Basic operations



For DVD VIDEO

- 1 Press ▲/▼/◀/▶ to select a desired item.
 - 2 Press ENTER.
- The unit starts playback of the selected item.

For SVCD/Video CD

Press the numeric buttons to select a desired item.
The unit starts playback of the selected item.

NOTE

Do not insert an unplayable disc. (See page 2.)

About PBC (Playback Control)

Some SVCD/Video CD discs support the PBC function.

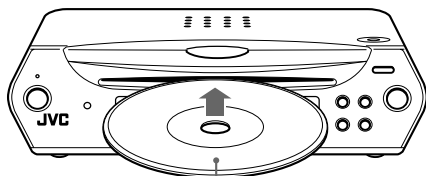
The PBC function allows you to enjoy menu-driven operation and high-resolution still images which have a resolution four times greater than moving pictures.

- To play a PBC-compatible SVCD/Video CD disc without activating the PBC function, press the numeric buttons instead of ► to start playback.
- To activate the PBC function again,
 - 1) press TOP MENU or MENU,
 - or
 - 2) press ■ to stop playback, then press ►.

Basic playback



1 Insert a disc in the disc slot.



With the label side up

- To insert an 8-cm disc, insert it into the center of the disc slot.

2 Press ►.

The unit starts playback from the beginning. During playback, the illumination lamp becomes a little darker.

If a menu is shown on the TV screen

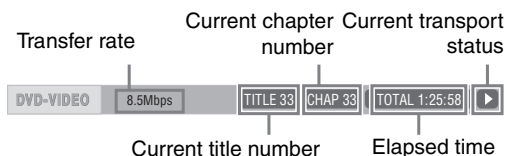
When inserting a DVD VIDEO, SVCD or Video CD disc, a menu may be shown on the TV screen. From the menu, you can select a desired item to be played back.

To check the playback status

You can see the current selection number (the title/ chapter number for DVD VIDEO or track number for SVCD/Video CD/Audio CD), time information (the track or chapter time while stopped, or elapsed track or chapter time during playback) and the transport status (stop, playback, pause, etc.) on the TV screen.

Press ON SCREEN.

Example: for DVD VIDEO



Note that pressing ON SCREEN again brings up the menu bar under the status bar, from which you can access various functions. See page 24 for details about the menu bar.

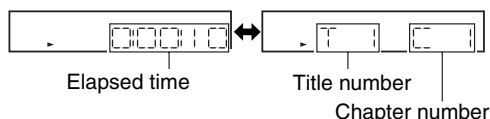
To turn off the status bar

Press ON SCREEN repeatedly until the status bar goes off.

To change the display window contents

Press DISPLAY.

Example: for DVD VIDEO
Each time you press DISPLAY, the elapsed time display and the title/chapter number display appear alternately.



When playing back an SVCD and a video CD, this function is available only when the PBC function is set to off.

To stop playback completely

Press ■.

Hint

If you press ▲ during playback, the unit stops playback and the disc is ejected.

To stop playback temporarily

Press II.


The illumination lamp flashes during pause mode.
To resume playback, press ►.


To eject the disc


Press ▲ on the unit or EJECT on the remote control unit.
After the disc is ejected, pressing these buttons loads the disc. Do not leave the disc as it ejected.

About On-screen guide icons

You may see the following icons displayed over the picture. They have the following meanings.

 : Appears at the beginning of a scene recorded from multiple angles (see page 21).

 : Appears at the beginning of a scene recorded with multiple audio languages (see page 21).

 : Appears at the beginning of a scene recorded with multiple subtitle languages (see page 20).

About screen saver function

A television monitor may have an image burned into it if a static image is displayed for a long time. To prevent this, the unit automatically activates the screen saver function if a static picture, such as an on-screen display or menu, is displayed for over 5 minutes. When the screen saver function is activated, the TV screen gets darker. Pressing any buttons will release the screen saver function (see page 34).

Resuming playback



The unit can memorize the position on a disc where you interrupted playback, and resume playback from that position later.

There are three resume modes; ON, OFF and DISC RESUME. The mode is initially set to ON when you purchased the unit.

- You can select the mode using the preference display (see page 35).

When the resume mode is “ON”

When you press ■, the unit stops playback and memorizes the interrupted position. The TV screen shows [RESUME STOP] and the [RESUME] indicator lights up in the display window.

The memory of the interrupted position is not cleared if you turn off the unit.

When you turn off the unit after setting the resume function, simply press ►. The unit is turned on, and playback starts from the interrupted position. If you turn on the unit by pressing (⏻) STANDBY/ON then press ►, playback starts from the beginning of the disc. Note that the memory is cleared if you eject the disc.

When the resume mode is “DISC RESUME”

When you press ■, the unit stops playback and memorizes the interrupted position. The TV screen shows [RESUME STOP] and the [RESUME] indicator lights up in the display window.

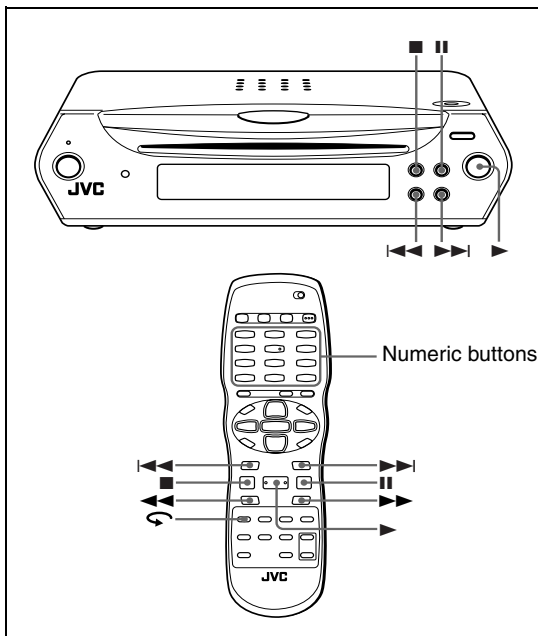
The memory of the interrupted position is not cleared if you eject the disc or turn off the unit.

Hint

The unit memorizes interrupted positions for the last 30 discs played. Storing a new interrupted position will erase the interrupted position stored for the first disc.

To clear the memory

Press ■ while the disc is stopped.



- If you interrupt the playback of a disc for which an interrupted position has already been stored, the memory will be updated with the new interrupted position.
- For a double-sided DVD VIDEO disc, the unit regards each side as a different disc. Therefore, to resume playback of such a disc, the disc must be inserted with the same side down.
- When the unit memorizes an interrupted point for a disc, it also memorizes Audio, Subtitle and Angle settings.
- The unit may not resume playback exactly from the interrupted point. In the case of an SVCD/Video CD disc with PBC function, the unit may resume playback from a point slightly earlier or later than the point where playback was interrupted.

Various speed playback

x1.5 Quick Playback with sound



During playback, press **▶▶** on the remote control unit.

The disc is played back at about 1.5 times normal speed.

The sound is not muted, and the subtitle does not go off.

To return to the normal playback

Press **▶**.

NOTES

- x1.5 Quick Playback can also be achieved by pressing **▶▶** once. (See next section.)
- At the x1.5 Quick Playback mode, the digital sound is output in stereo linear PCM format. Note that the sound of a DTS-encoded DVD VIDEO disc is not output.
- Depending on a disc, the sound may not be in tune, or the sound quality may alter during the x1.5 Quick Playback mode.

To resume playback

When the resume mode is "ON"

While the disc you interrupted playback is still in the disc slot, press **▶**.

The unit resumes playback from the position where playback was interrupted. The TV screen shows [RESUME PLAY].

To play back from the beginning

Press **■** before pressing **▶** to start playback.

When the resume mode is "DISC RESUME"

1 Insert a disc for which the unit has stored an interrupted position.

The TV screen shows [RESUME STOP].

2 Press **▶**.

The TV screen shows [RESUME PLAY] and the unit resumes playback from the position where playback was interrupted.

To play back from the beginning

After inserting the disc, press **■** before pressing **▶** to start playback.

NOTES

- If you change the [RESUME] setting from [DISC RESUME] to [OFF] or [ON], you cannot resume playback of a disc whose "resuming" position is stored. However, when you again set [RESUME] to [DISC RESUME], you will then be able to resume playback of the disc.

To advance or reverse playback rapidly while monitoring



During playback, press **▶▶** or **◀◀** on the remote control unit.

You can select from 1.5 times, 5 times, 20 times and 60 times normal speed. Pressing **▶** returns the unit to normal playback.

During playback, hold down **▶▶** or **◀◀**.

Playback is advanced or reversed at 5 times normal speed.

NOTE

During rapid playback, the sound will be muted except when playing an Audio CD, and when playing a DVD VIDEO or Video CD at 1.5 times normal speed. For Audio CD discs, the sound will be heard intermittently.

To advance a still picture frame by frame



While paused, press **■**.

Each time you press **■**, the still picture advances to the next frame.

Pressing **▶** returns to normal playback.

To play back in slow motion



You can select from 1/32 times, 1/16 times, 1/4 times and 1/2 times normal speed.

During playback, press **■**, then press **▶▶** (to play forward slow motion), or **◀◀** (to play reverse slow motion, for DVD VIDEO disc only).

Pressing **▶** returns to normal playback.

NOTES

- During slow motion playback, the sound will be muted.
- Reverse slow motion playback is not possible for an SVCD and Video CD.

To replay the previous scenes (One touch replay function)



During DVD VIDEO playback, press



The playback position moves back 10 seconds before the current position.

NOTES

- This function works only within the same title, though it works between chapters.
- This function may not work with some DVD VIDEO discs.

Locating the beginning of a scene or song



For DVD VIDEO: During playback, you can skip a chapter or title, depending on the disc configuration.

For SVCD/Video CD: During playback without PBC function, you can skip a track.

For Audio CD: During playback or while in stop mode, you can skip a track.

To skip forward, press **▶▶**.

To skip backward, press **◀◀**.

Using the numeric buttons

For DVD VIDEO/Audio CD: During playback or while in stop mode

For SVCD/Video CD: During playback without PBC function or while in stop mode

Press the numeric buttons to specify the number.

To select 5: press 5.

To select 23: press +10, +10, then 3.

To select 40: press +10, +10, +10, then 10.

The unit starts playback from the beginning of the selection.

NOTES

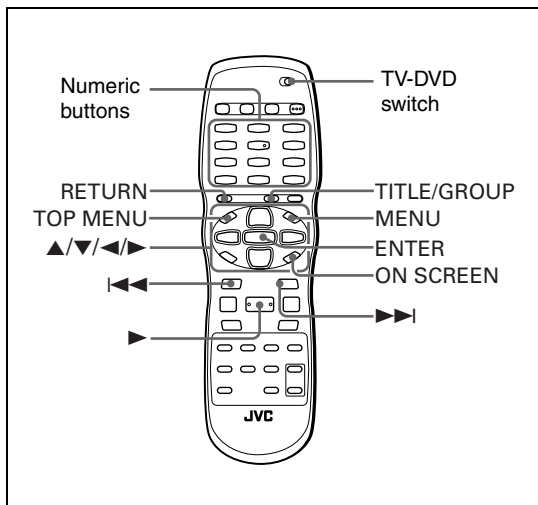
- Depending on the disc type and the unit status, what is specified differs:

Unit status	Disc type	What is specified
While stopped	DVD VIDEO	title
	SVCD/Video CD/Audio CD	track
During playback	DVD VIDEO	chapter
	SVCD/Video CD/Audio CD	track

- During DVD VIDEO playback, if a menu is shown on the TV screen, the numeric buttons may be used for selecting an item in the menu.

Basic operations

Advanced operations



Note



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶, TV/VIDEO-CANCEL, and numeric buttons for controlling the unit.

Playing from a specific position

Locating a desired scene from the DVD menu



DVD VIDEO discs generally have their own menus which show the disc contents. These menus contain various items such as titles of movies, names of songs, or artist information, and display them on the TV screen. You can locate a desired scene using the DVD menu.

1 While a DVD VIDEO disc is inserted, press TOP MENU or MENU.

The menu appears on the TV screen.

2 Press ▲/▼/◀/▶ to select a desired item, then press ENTER.

The unit starts playback of the selected item.

Hints

- Some DVD VIDEO discs may also have a different menu which appears when MENU is pressed.
- See the instructions of each DVD VIDEO disc for its particular menu.
- With some discs, you can select items by entering the corresponding number using the numeric buttons, which may cause the unit to automatically start playback.

NOTE

The MENU button does not work while stopped.

Locating a desired scene from the menu of a SVCD/Video CD with PBC



Some SVCD/Video CD discs support the PBC function. PBC is an abbreviation of "Playback Control." Some SVCD/Video CD discs recorded with PBC have their own menus, such as a list of the songs of the disc. You can locate a specific scene by using the PBC menu.

1 In stop mode, press ▶ or TOP MENU.

A disc menu appears on the TV screen.

2 Press the numeric buttons to select the desired item.

To select 5: press 5.

To select 23: press +10, +10, then 3.

To select 40: press +10, +10, +10, then 10.

The unit starts playback of the selected item.

To return to the menu, press RETURN.

Hint

If something like [NEXT] or [PREVIOUS] appears on the TV screen, pressing ▶▶ advances to the next page, and pressing ◀◀ returns to the previous page.

Specifying a desired title



1 During playback, press TITLE/GROUP.

[T-] is shown in the title display area of the display window.

2 Press the numeric buttons to specify a title to be played.

To select 5: press 5.

To select 23: press +10, +10, then 3.

To select 40: press +10, +10, +10, then 10.

The unit starts playback from the specified title.

NOTE

This function may not work with some DVD VIDEO discs.

Locating a desired position in the current title or track (Time search)



You can play a disc from the desired position by specifying the time from the beginning of the current title (for DVD VIDEO) or the disc (for SVCD/Video CD/Audio CD).

For DVD VIDEO/Audio CD: During playback or while in stop mode

For SVCD/Video CD: In any condition except SVCD/Video CD playback with PBC

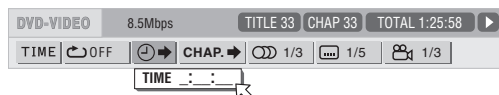
1 Press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press ◀▶ to move ⏪ to ⏩, then press ENTER.

The pull-down menu for entering time appears.

Screen example for DVD VIDEO



Screen example for Audio CD



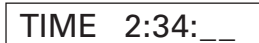
3 Press the numeric buttons (0 to 9) to enter the desired time.

The specified time is displayed in the pull-down menu.

Example (for DVD VIDEO)

To play back from 2(H):34(M):00(S)

Press 2, 3, then 4.



Example (for SVCD/Video CD/Audio CD)

To play back from 23(M):40(S)

Press 2, 3, then 4.



You do not have to press “0” to enter the trailing zeros (for the last two digits in the example above).

To correct a mistake

Press ◀ repeatedly to move back to the digit where you entered a wrong number, and reenter the correct one.

4 Press ENTER.

The unit starts playback from the specified time.

To dismiss the menu bar

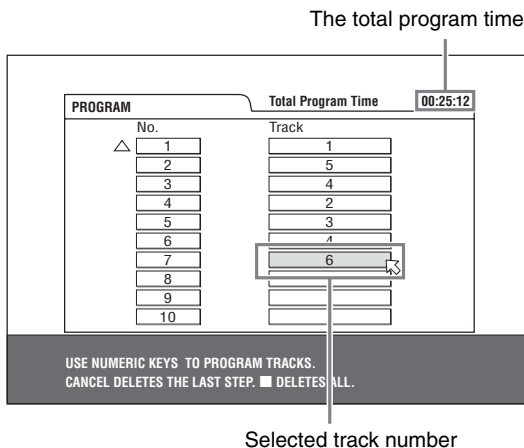
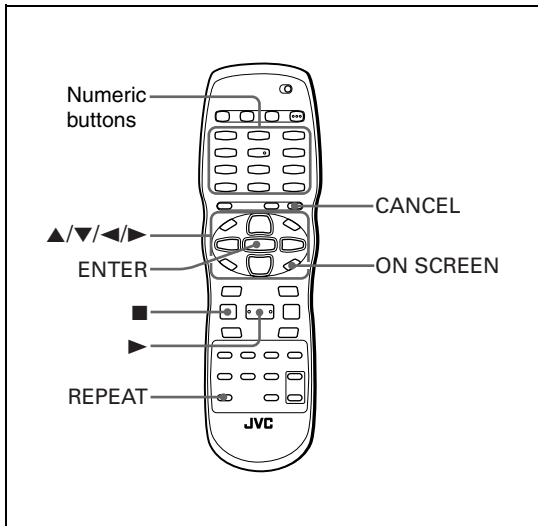
Press ON SCREEN.

Hint

“10” and “+10” buttons are not used with this function.

NOTES

- Some DVD VIDEO discs do not contain time information, and the time search function cannot be used.
- The time search function cannot be used during program playback.



Changing the playback order

To play back in a specific order (Program play)



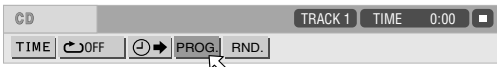
By programming tracks, you can play up to 99 tracks in any order. You may program the same track more than once.

1 In stop mode, press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press ◀/▶ to move to [PROG.].

Screen example for Audio CD



3 Press ENTER.

The program table appears. The [PROG.] indicator lights up in the display window.

4 Press the numeric buttons to specify tracks in the desired order.

To select 5: press 5.
To select 23: press +10, +10, then 3.
To select 40: press +10, +10, +10, then 10.

To correct the program

Press ▲/▼ to move to the track to be corrected, then press CANCEL. The track is erased and the subsequent programmed tracks move up. Pressing ■ clears all the programmed tracks.

5 Press ▶ to start program playback.

With an Audio CD disc, the program table remains on the TV screen during program playback. (Pressing ON SCREEN brings up the status bar.) When all of the programmed tracks have finished playback, the unit stops and the program table appears again.

Note that the program remains.

- During program playback, you cannot edit the program contents.

To check the program contents

During playback, press ■. Playback stops and the program table is shown. When the unit is playing back an Audio CD and the program table is not shown, you can bring up the table by carrying out steps 1 to 3. During SVCD/Video CD playback, you can check the program contents via the menu bar.

To stop program playback

Press ■.

To clear the program

While stopped and the program table is shown, press ■.

To exit the program mode

After clearing the program, press ON SCREEN.

NOTE

When the disc is not inserted or the unit is turned off, the program is cleared.

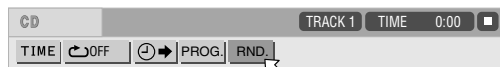
To play back in random order (Random play)



1 In stop mode, press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press ◀▶ to move  to RND. .
Screen example for Audio CD



3 Press ENTER.

The unit starts random playback.

With an SVCD/Video CD disc, the menu bar is automatically dismissed.

During random playback, the RND indicator lights up in the display window.

After playing all tracks of the disc, the unit stops the disc and exits the random playback mode.

To stop and quit random playback

Press ■. The unit stops playback and exits the random playback mode.

Repeat playback

To repeat the current selection or all tracks



For DVD VIDEO: During playback


For SVCD/Video CD/Audio CD: In any condition except SVCD/Video CD playback with PBC


Press REPEAT.

If you press REPEAT in stop mode, press ▶ to start playback.

Each time you press REPEAT, the repeat mode cycles among All repeat, Repeat 1 and off.

The indication on the display window shows the selected repeat mode.

: Repeats the current title for DVD VIDEO or all tracks for SVCD/Video CD/Audio CD.

 1: Repeats the current chapter for DVD VIDEO or the current track for SVCD/Video CD/Audio CD.

No indication: The repeat mode is off.

A window which indicates the current repeat mode will be displayed on the TV screen. The mode indication on the window is the same as the one on the menu bar.

Screen example for DVD VIDEO (during chapter repeat)



To stop repeat playback

Press ■.

When a DVD VIDEO disc is set, the unit stops playback and quits the repeat mode.


When an SVCD, Video CD or Audio CD disc is set, the unit stops playback but does not quit the repeat mode.

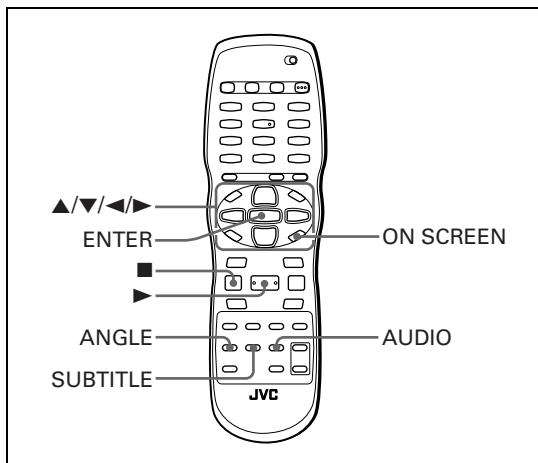
To quit repeat playback

Press REPEAT until the repeat mode indicator goes off in the display window.

Hint

When the program playback mode is active with an SVCD, Video CD or Audio CD, the repeat mode changes in the same manner.

Note, however, that in the  mode the unit repeats all the programmed tracks instead of all tracks on the disc.



To repeat a desired part (A-B repeat playback)



First make sure:

- The unit is in playback mode except SVCD/Video CD playback with PBC.

1 Press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press ◀▶ to move to , then press ENTER.

The pull-down menu for repeat mode selection appears.

3 Press ▲▼ to select [A-B].

4 Press ENTER at the beginning of the part you want to repeat (point A).

The pull down menu disappears.

The repeat icon shows .

5 Press ENTER at the end of the part you want to repeat (point B).

The repeat icon shows .

The unit locates "A" and starts repeat playback between "A" and "B."

The indicator lights in the display window.

To quit A-B repeat playback

Press ◀▶ to move to , and press ENTER. The A-B repeat mode turns off, then normal playback continues.

NOTE

The A and B points must be set in the same title/track.

Changing the language, sound and scene angle

To select the subtitle language (SUBTITLE)



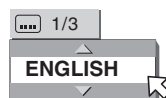
Some DVD VIDEO and SVCD discs contain more than one subtitle language. You can choose a desired one from them.

Hint

At the beginning of the part if the subtitles are recorded, appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press SUBTITLE.

The subtitle selection window appears on the TV screen.



2 Press ▲▼ or SUBTITLE to select the subtitle.

Each time you press ▲▼ or SUBTITLE, the subtitle language changes.

3 Press ENTER.

Subtitles are displayed in the selected language. The subtitle selection window is dismissed.

NOTES

- An SVCD disc can have up to four subtitles. Pressing ▲▼ cycles through those channels regardless of whether the subtitles are recorded or not.
- The subtitle selection window will automatically disappear if you do not change the subtitle for several seconds.
- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix B: Table of languages and their abbreviations" on page 43.

To change the audio language or sound (AUDIO)



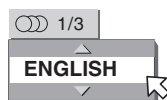
The audio selection setting allows you to change the audio language of a movie, or to listen to karaoke with or without the vocal.

Hint

At the beginning of the part where multiple audio tracks are recorded, appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press AUDIO.

The audio selection window appears on the TV screen.



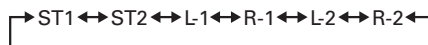
2 Press ▲/▼ or AUDIO to select the desired audio.

Each time you press ▲/▼ or AUDIO, the audio changes.

For DVD VIDEO (example)



For SVCD



For Video CD



3 Press ENTER.

You can hear the selected audio.
The audio selection window is dismissed.

NOTES

- The audio selection window will automatically disappear if you do not change the audio for several seconds.
- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix B: Table of languages and their abbreviations" on page 43.

To select a scene angle of DVD VIDEO (ANGLE)



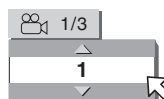
You can enjoy a variety of scene angles if the DVD VIDEO disc contains "multi-angle" parts, where multiple cameras were used to shoot the same scene from different angles.

Hint

At the beginning of a "multi-angle" part, appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press ANGLE.

The angle selection window appears on the TV screen.



2 Press ▲/▼ or ANGLE to select the desired angle.

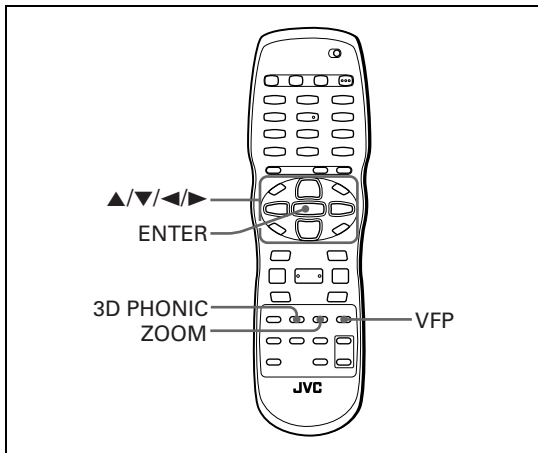
Each time you press ▲/▼ or ANGLE, the angle changes.

3 Press ENTER.

You can see the picture from the selected angle.
The angle selection window is dismissed.

NOTE

The angle selection window will automatically disappear if you do not change the angle for several seconds.



Special picture/sound effect

To zoom in pictures



1 During playback or while paused, press ZOOM.

Pressing ZOOM causes the unit to zoom in on the image.

At the top left of the screen, the information for the current magnification appears for about 5 seconds. Each time you press ZOOM, the magnification is doubled (up to 64 times).

ZOOM x 4



When a picture of a DVD VIDEO disc is viewed on a normal TV screen (4:3, Letter Box), black bars may appear at the top and bottom of the screen. In this case, if you select the "ZOOM x 1.8" mode, the black bars become almost invisible.

When a 1:2.35 or 1:1.85 DVD VIDEO source is played back, however, the black bars are visible on the screen.

2 Press ▲/▼/◀/▶ to move the zoomed position.

To release the zooming

Press ENTER.

NOTE

While zoomed, the picture may look coarse.

To adjust the picture character (VFP)



The VFP (Video Fine Processor) function allows you to adjust the picture character according to the type of programming, picture tone or personal preferences.

1 During playback, press VFP.

The VFP mode selection window appears on the TV screen.

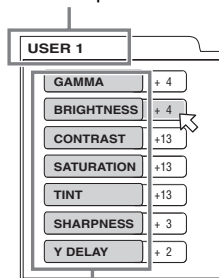
2 Press ◀/▶ to select the desired preset.

Each time you press the button, the VFP mode changes as follows.

Set the video type most suitable to the current program or the room conditions.

→ NORMAL ↔ CINEMA ↔ USER 1 ↔ USER 2 ←

Selected preset



Parameter

[NORMAL]: for watching TV in a general room.

[CINEMA]: for watching a movie software in a room with suppressed light.

[USER 1] [USER 2]: you can adjust parameters that affect the picture character and store the settings as a user preset. See the next step.

3 To define a user setting, press ▲/▼ to select a parameter to be edited from the following.

• GAMMA

Adjust this if the neutral color is bright or dark. The brightness of dark and bright portion is maintained. Available range: -4 (darkest) to +4 (brightest).

• BRIGHTNESS

Adjust this if the picture is bright or dark on the whole. Available range: -16 (darkest) to +16 (brightest).

• CONTRAST

Adjust this if the far and near position is unnatural. Available range: -16 to +16.

• SATURATION

Adjust this if the picture is whitish or blackish. Available range: -16 (blackest) to +16 (whitest).

- **TINT**
Adjust this if the appearance of flesh tone is unnatural.
Available range: -16 to +16.
- **SHARPNESS**
Adjust this if the picture is indistinct.
Available range: 0 to +3.
- **Y DELAY**
Adjust this if the picture looks separately/ overlapped.
Available range: -2 to +2.

4 Press ENTER.

A window for setting parameters appears.



Selected parameter

5 Press ▲/▼ to adjust the level of the parameter.

The higher value enhances the effect.

6 Press ENTER.

Repeat steps 3 to 6 if you want to set other parameters.

To dismiss the VFP mode selection window

Press VFP.

NOTES

- The window for VFP mode selection and parameter setting disappears if no operation is made for about 10 seconds.
- While zoomed, the VFP function cannot be used.

To simulate surround sound (3D PHONIC)



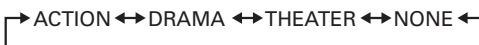
Using the 3D PHONIC function, you can get a simulated surround effect from your stereo system.

1 During playback, press 3D PHONIC.

The 3D PHONIC window appears on the TV screen.

2 Press ◀/▶ to select the desired mode.

Each time you press the button, the 3D PHONIC mode changes as follows:



Selected effect mode

- **ACTION**
Suitable for action movies and sports programs in which the sound source moves.
- **DRAMA**
Natural and warm sound. You can enjoy movies in a relaxed mood.
- **THEATER**
You can enjoy sound effects like in a theater.

3 Press ▲/▼ to adjust the effect level.

You can set the effect level from [1] to [5]. The higher value enhances the effect.

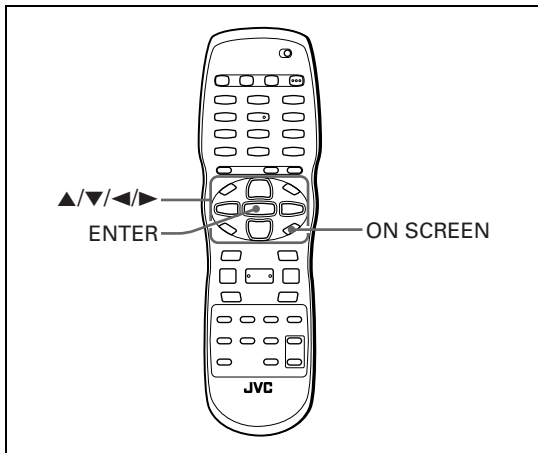
To dismiss the 3D PHONIC window

Press 3D PHONIC.

NOTES

- The 3D PHONIC window disappears if no operation is made for about 10 seconds.
- The 3D PHONIC function works correctly only when playing back a DVD VIDEO disc recorded with Dolby Digital.
- When playing back a DVD VIDEO disc recorded with Dolby Digital that does not contain the rear signal, you can change the 3D PHONIC setting, but you will not be able to achieve a correct 3D effect.
- The 3D PHONIC function does not affect the Dolby Digital bitstream signal from the DIGITAL OUT jack.
- When the 3D PHONIC function is active, the [ANALOG DOWN MIX] setting in the [AUDIO] setting display is not available.
- [3D] is indicated on the display window when the 3D PHONIC function is active.

Advanced operations



Menu bar functions

To bring up the menu bar

- 1 When a disc is inserted, press **ON SCREEN**.

A status bar for the type of disc inserted will appear on the TV screen. See page 12 for details about the status bar.

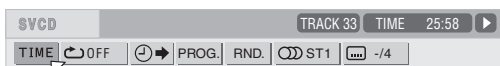
- 2 Press **ON SCREEN** again.

A menu bar for the type of disc inserted will appear under the status bar.

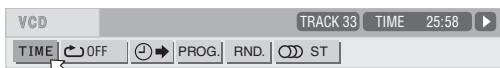
(for DVD VIDEO)



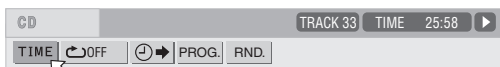
(for SVCD)



(for Video CD)



(for Audio CD)



To dismiss the menu bar and status bar

Press **ON SCREEN**.

Basic operation procedure

- 1 Press **◀▶** to select the icon you want to work with.

The selected icon is pointed by **↔**.

- 2 Press **ENTER**.

With many icons, an appropriate pull-down window appears, however, there are some exceptions.

NOTES

- A mark or text on the menu icon for the function or mode currently selected is shown in green.
- Some functions are not available during playback. (You cannot move **↔** to the associated icon when it is not available.)

Menu bar functions for DVD VIDEO

TIME Time mode selection

During playback, selects the time mode shown in the display window and in the status bar.

Press **ENTER** to select the time mode from the following.

- TOTAL: Current title elapsed time
- T.REM: Current title remaining time
- TIME: Current chapter elapsed time
- REM: Current chapter remaining time

↺ Repeat mode (See also page 19)

Selects the repeat mode during playback.

1. Open the pull-down window.
2. Press **▲/▼** to select the repeat mode from the following.
 - CHAPTER: Current chapter repeat
 - TITLE: Current title repeat
 - A-B: A-B repeat
 - OFF: Repeat mode deactivated
3. Press **ENTER** to make the selected repeat function active.

⏮ Time search (See also page 17)

Specifies a time from the beginning of the current title as the point from which to begin playback.

CHAP. ▶ Chapter search

During playback, specifies a desired chapter to be played back from.

1. Open the pull-down window.
2. Press numeric buttons (0 to 9) to enter a desired chapter number. (For example, to specify "10," press 1, then 0.)
3. Press **ENTER** to begin playback from the specified chapter.

Audio selection (See also page 21)

During playback, selects the audio language or sound track.

1. Open the pull-down window.
2. Press ▲/▼ to select a desired audio language or sound track.
3. Press ENTER to begin playback with the selected audio.

Subtitle selection (See also page 20)

During playback, selects the subtitle language.

1. Open the pull-down window.
2. Press ▲/▼ to select a desired subtitle language.
3. Press ENTER to begin playback with the selected subtitle.

Angle selection (See also page 21)

During playback, selects a desired scene angle in a multi-angle part.

1. Open the pull-down window.
2. Press ▲/▼ to select a scene angle.
3. Press ENTER to begin playback with the selected scene angle.

Menu bar functions for SVCD/Video CD/Audio CD

Time mode selection

Selects the time mode shown in the display window and in the status bar.

Press ENTER to select the time mode from the following.

- TIME: Current track elapsed time
- REM: Current track remaining time (while in stop mode, current track total time)
- TOTAL: Disc elapsed time
- T.REM: Disc remaining time (while in stop mode, disc total time)

Repeat mode (See also page 19)

Selects the repeat mode.

1. Open the pull-down window.
2. Press ▲/▼ to select the repeat mode from the following.
 - TRACK: Current track repeat
 - ALL: All track repeat
 - A-B: A-B repeat
 - OFF: Repeat mode deactivated
3. Press ENTER to make the selected repeat function active.

Time search (See also page 17)

Specifies a time from the beginning of the disc as the point from which to begin playback.

Program playback (See also page 18)

While stopped, specifies the playback order of tracks.

Random playback (See also page 19)

While stopped, activates random playback.

Audio selection (See also page 21)

During SVCD/Video CD playback, selects the audio channel(s).

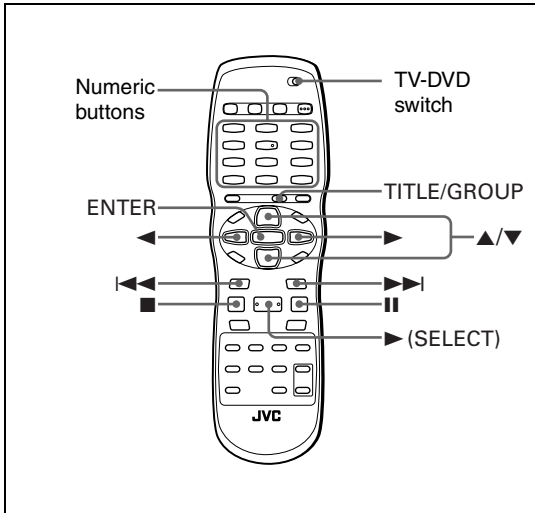
1. Open the pull-down window.
2. Press ▲/▼ to select a desired audio channel(s).
3. Press ENTER to play back with the selected audio channel(s).

Subtitle selection (See also page 20)

During SVCD playback, selects the subtitle.

1. Open the pull-down window.
2. Press ▲/▼ to select a desired subtitle.
3. Press ENTER to begin playback with the selected subtitle.

MP3 disc playback

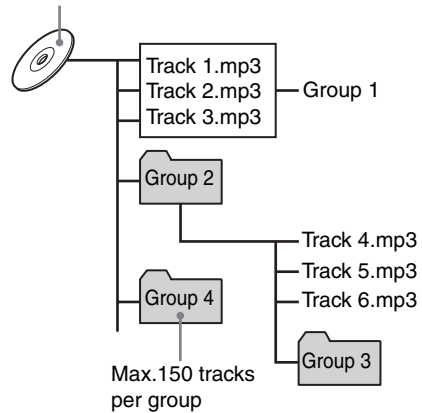


Note



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ and numeric buttons for controlling the unit.

Max. 99 groups per disc



Notes for making your own MP3 disc using a CD-R/CD-RW disc

- Select "ISO 9660" as the disc format.
- We recommend you to record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.

Operations

The unit can play back MP3 files on a personally recorded CD-R/RW disc or commercially available CD. We refer to a disc that contains MP3 files as an "MP3 disc" in this manual. Note that if a disc contains both of MP3 and JPEG files, you can only play back files of the type selected by the MP3/JPEG setting in the PICTURE preference display (see page 34).

About MP3 discs

On an MP3 disc, each song is recorded as a file (track). Files are sometimes grouped into folders by artists, album, etc.

- Each file is regarded as a track.
- A folder which has one or more files is regarded as a group.
- A folder which does not directly contain any tracks is ignored.
- Files which do not belong to any folder are grouped into "group 1."
- The unit recognizes up to 150 tracks per group, and up to 99 groups per disc. If there are files other than MP3 files, they also count in the 150-file total.

Basic operations

Use the following buttons to control MP3 disc playback.

- ENTER: Starts playback while stopped.
- \blacktriangleright (SELECT): Starts playback while stopped or paused.
- \blacksquare : Stops playback.
- II : Pauses playback.
- $\blacktriangleleft/\blacktriangleright$: Skips back or forward a track during playback. Selects the previous or next track while stopped.

If you press \blacktriangleright during playback, or press \blacksquare to stop playback followed by \blacktriangleright , the unit starts playback from the beginning of the current track.

NOTES

- The unit does not support "packet writing (UDF format)" discs.
- The unit does not support the ID3 tag.
- The unit supports discs recorded with multiple sessions.
- Some discs may not play due to disc characteristics or recording conditions.
- Programmed and random playback functions do not work with MP3 discs.
- The unit only can play back tracks with the following file extensions; ".MP3," ".Mp3," ".mp3" and ".mP3."
- Time required for reading the disc contents may vary for different discs, depending on the numbers of groups (folders) and tracks (files) recorded, etc.
- You cannot advance or reverse playback by pressing $\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft$, or by holding down $\blacktriangleright\text{II}$ or $\text{II}\blacktriangleleft$ during MP3 disc playback.

Selecting the desired group and track

When inserting an MP3 disc, after the disc contents are read, the [MP3 CONTROL] display automatically appears on the TV screen.

You can specify the desired group/track from the display using the following procedure.

1 Make sure that the black (cursor) bar is in the left (group) column.

If it is in the right column, press ◀ to move it to the left column.

2 Press ▲/▼ to move the bar to a desired group.

On the right column, tracks in the selected group are shown.

3 Press |◀◀/▶▶| to select a desired track, then press ENTER or ▶ (SELECT).

or

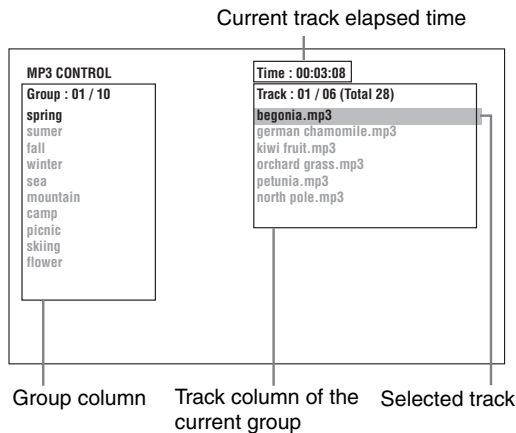
Press the numeric buttons to directly specify a desired track number.

To select 5: press 5.

To select 23: press +10, +10, then 3.

To select 40: press +10, +10, +10, then 10.

The unit starts playback from the selected track.



Hint

You can also select a desired track by pressing ▶ to move the black bar to the right (track) column then using ▲/▼.

NOTES

- If an MP3 file name includes any 2-byte character, the unit cannot show the file name correctly.
- Only MP3 files are shown on the MP3 CONTROL display.

- The order of groups/tracks shown in the MP3 CONTROL display may differ from the order shown on your personal computer when you set the disc on your computer.

Direct selection

You can select a desired group directly by specifying the group number.

1 During playback or while stopped, press TITLE/GROUP.

[G * *] is shown in the group display area of the display window.

2 Press the numeric buttons to specify a desired group number.

To select 5: press 5.

To select 23: press +10, +10, then 3.

To select 40: press +10, +10, +10, then 10.

Specify the group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows [G * *]).

The unit starts playback from track 1 of the selected group.

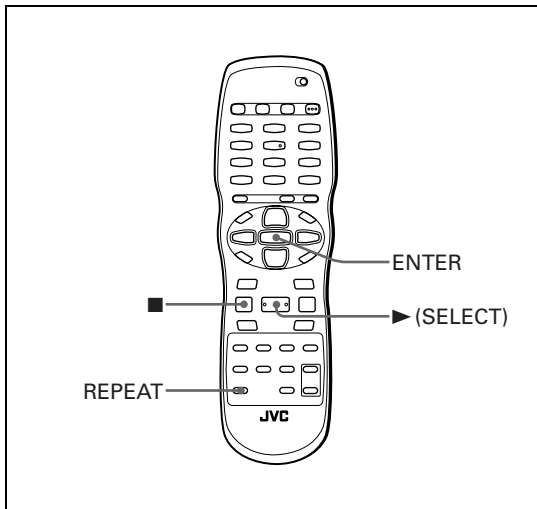
3 Press the numeric buttons to specify a desired track number.

The unit starts playback from the specified track.

You can also use |◀◀/▶▶| to specify a track, instead of the numeric buttons.

MP3 disc playback

MP3 disc playback



To quit repeat playback

During playback, press REPEAT until no repeat icon is shown on the display window.




While stopped, press REPEAT until repeat mode indication on the MP3 CONTROL display goes off.

Repeat playback

During playback or while stopped, press REPEAT.

Each time you press REPEAT, the repeat mode changes as follows.

If you press REPEAT while stopped, you need to press ENTER or ► (SELECT) to start repeat playback.

MP3 CONTROL display	Display window	Function
REPEAT TRACK	 1	Repeats the current track.
REPEAT GROUP		Repeats all tracks in the current group.
REPEAT ALL		Repeats all tracks on the disc.
No indication	The repeat mode is off.	

(TV screen)

Selected repeat mode

MP3 CONTROL	REPEAT TRACK	
Group : 01 / 10		Track : 01 / 06 (Total 28)
spring	begonia.mp3	
summer	german chamomile.mp3	
fall	kiwi fruit.mp3	

To stop repeat playback

Press ■. Note that the repeat mode remains active.

JPEG disc playback

Note



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶ and numeric buttons for controlling the unit.

The unit can play back JPEG files on a personally recorded CD-R/RW disc. We refer to a disc that contains JPEG files as a "JPEG disc" in this manual.

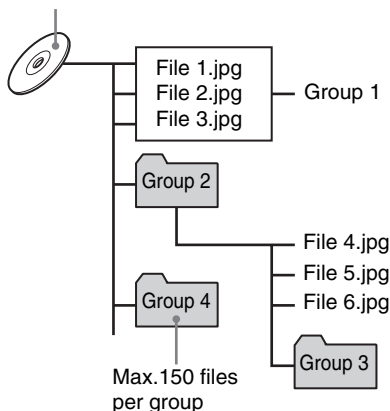
Note that if a disc contains both of MP3 and JPEG files, you can only play back files of the type selected by the MP3/JPEG setting in the PICTURE preference display (see page 34).

About JPEG discs

On a JPEG disc, each picture is recorded as a file. Files are sometimes grouped into folders by category, etc.

- A folder which has one or more files is regarded as a group.
- A folder which does not directly contain any files is ignored.
- Files which do not belong to any folder are grouped into "group 1."
- The unit recognizes up to 150 files per group, and up to 99 groups per disc. If there are files other than JPEG files, they also count against the 150-file total.

Max. 99 groups per disc



Notes for making your own JPEG disc using a CD-R/CD-RW disc

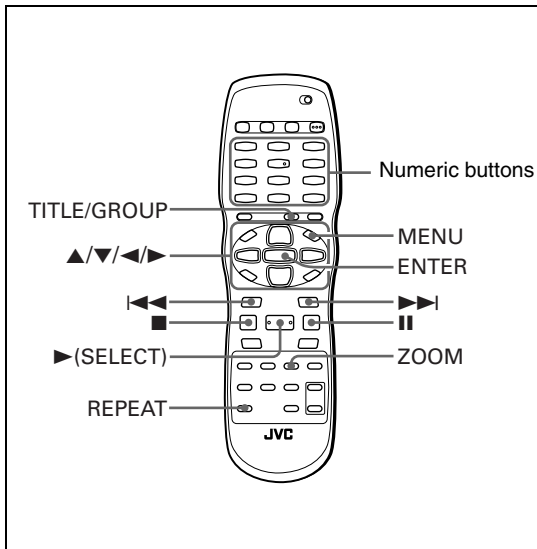
- Select "ISO 9660" as the disc format.
- We recommend you to record your material at a 640 x 480 pixel resolution.
- This unit supports the baseline JPEG format.

Basic operations

NOTES

- The unit supports the baseline JPEG format.
- The unit does not support "packet writing (UDF format)" discs.
- The unit supports discs recorded with multiple sessions.
- The unit may not be able to read some discs, or may take a long time to display a picture on the disc, due to disc characteristics, recording conditions, or numbers of groups (folders), etc.
- Programmed and random playback functions do not work with JPEG discs.
- The screen saver function will be activated if the same picture is displayed for more than 5 minutes except during slide show playback.
- The unit only can play back files with the following file extensions; ".jpg," ".jpeg," ".JPG," ".JPEG" and any other combination of upper case and lower case letters (such as "Jpg").
- If a JPEG file name includes any 2-byte character, the unit may not show the file name correctly.
- If a picture has been saved at greater than 640 x 480 pixel resolution, it may take some time to display the picture.
- The unit does not support pixel size picture of more than 2400 pixels. Make sure that the picture pixel size is 2400 pixels or less.

JPEG disc playback



NOTE

If the selected file is unplayable, a black screen appears.

To display another picture

Press **◀◀/▶▶** or **▲/▼** to select the desired picture.

To dismiss the picture

Press **■** or **MENU**.

The TV screen returns to the [JPEG CONTROL] display.

Viewing pictures continuously (slide show mode)

You can see files (still pictures) one after another automatically.

To start the slide show

Press **▶ (SELECT)**.

The slide show starts from the beginning of the disc. Each file (still picture) is displayed for approximately 3 seconds.

To stop slide show playback in the middle

Press **■** or **MENU**.

The TV screen returns to the [JPEG CONTROL] display. Pressing **▶ (SELECT)** resumes slide show playback from the last picture displayed.

To keep showing the current picture

Press **||** or **ENTER**.

Pressing **▶ (SELECT)** resumes the slide show playback.

To select the start point of the slide show

From the JPEG CONTROL display

1 Make sure that the black (cursor) bar is in the left (group) column.

If it is in the right column, press **◀** to move it to the left column.

2 Press **▲/▼** to move the bar to a desired group.

3 Press **◀◀/▶▶** to select a desired file.

4 Press **▶ (SELECT)**.

The slide show starts from the specified file.

To see a desired picture

When inserting a JPEG disc, after the disc contents are read, the [JPEG CONTROL] display automatically appears on the TV screen.

JPEG CONTROL	
Group : 01 / 10	File : 01 / 06 (Total 28)
spring	begonia.jpg
summer	german chamomile.jpg
fall	kiwi fruit.jpg
winter	orchard grass.jpg
sea	petunia.jpg
mountain	north pole.jpg
camp	
picnic	
skiing	
flower	

You can select a desired file for playback via this display.

1 Make sure that the black (cursor) bar is in the left (group) column.

If it is in the right column, press **◀** to move it to the left column.

2 Press **▲/▼** to move the bar to a desired group.

On the right column, files in the selected group are shown.

3 Press **◀◀/▶▶** to select a desired file, then press **ENTER**.

The selected file (still picture) is shown on the TV.

Hint

You can also select a desired file by pressing **▶** to move the black bar to the right (file) column then using **▲/▼**.

Direct selection

- 1** During playback or while stopped, press TITLE/GROUP.
- 2** Press the numeric buttons to specify a desired group number.
To select 5: press 5.
To select 23: press +10, +10, then 3.
To select 40: press +10, +10, +10, then 10.
- 3** Press the numeric buttons to specify a desired file number.

The unit starts slide show playback from the specified file.
If you do not specify a file, the unit starts slide show playback from the first file in the group.

To release the zooming

Press ENTER.

Repeat function

In the slide show mode, you can repeat playback of JPEG files in a group or on the disc.

- 1** While the JPEG CONTROL display is shown, press REPEAT.
Pressing REPEAT switches the repeat mode.
When the repeat mode is turned on, the [↺] indicator lights in the display window.
The selected repeat mode is shown on the JPEG CONTROL display.
REPEAT ALL: All files on the disc are repeated.
REPEAT GROUP: All files in the current group are repeated.
No indication: The repeat mode is off.

- 2** Press ► (SELECT) to start repeat playback.

To stop repeat playback

Press ■.
The repeat mode remains active.

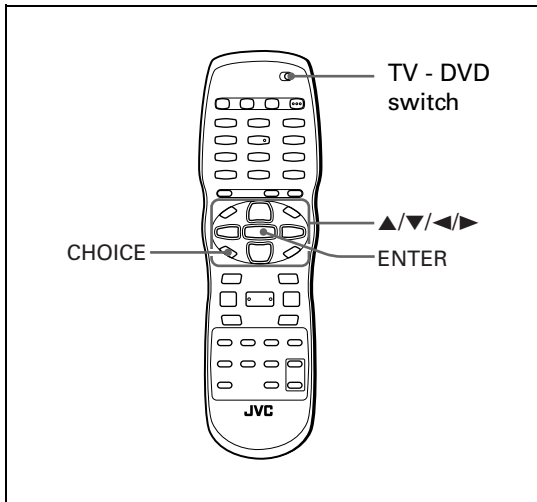
To quit repeat playback

Press ■ or MENU while the JPEG CONTROL display is shown, and press REPEAT until the repeat mode indication goes off.

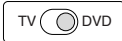
To zoom in the picture

- 1** While in pause mode during normal playback or pause mode during slide show, press ZOOM.
Pressing ZOOM causes the unit to zoom in on the image.
Each time you press ZOOM, the magnification is doubled (1.8, 4, 8, 16, 32 and 64 times).
- 2** Press ▲/▼/◀/▶ to move the zoomed position.

Changing the initial settings



Note



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ and numeric buttons for controlling the unit.

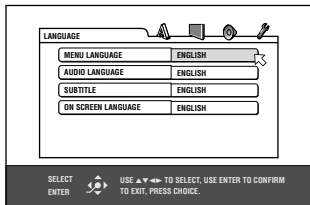
Selecting preferences

This section refers to the settings which are already made when you purchase the unit. Read this section when you want to connect this unit to a wide-vision TV set, or when you want to otherwise change the settings according to your preferences and viewing environment.

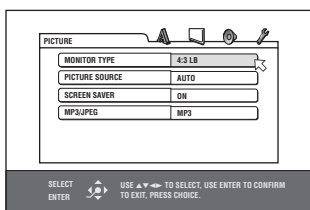
About the Preference display

The Preference display consists of the LANGUAGE, PICTURE, AUDIO and OTHERS setting displays, each having setting items.

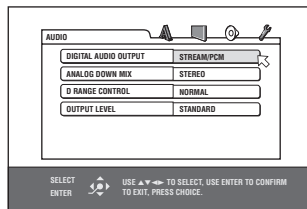
LANGUAGE



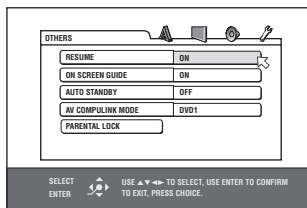
PICTURE



AUDIO



OTHERS



How to set preferences

1 Press CHOICE.

One of the preference on-screen displays appears on the TV screen. You can see four icons at the top right of the on-screen display for the settings.

: LANGUAGE menu

: PICTURE menu

: AUDIO menu

: OTHERS menu

2 Press $\blacktriangleleft/\blacktriangleright$ to select the appropriate icon.

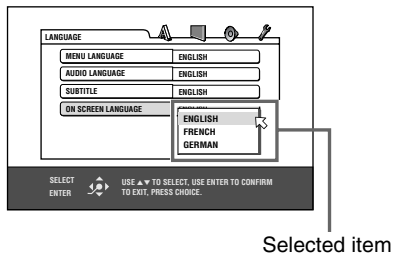
The appropriate display appears on the TV screen.

3 Press $\blacktriangle/\blacktriangledown$ to move to select the item you want to edit.

The color of the selected item changes.

4 Press ENTER.

A pull-down menu appears over the selected item.



5 Press ▲/▼ to select from the options then press ENTER.

The selected option is set.

- For details about each setting, see the following.

To dismiss a preference display

Press CHOICE.

NOTES

- While an MP3 or JPEG disc is inserted, you cannot bring up any preference display.
- When a preference display is shown on a wide TV screen, the upper and lower parts of the preference display sometimes may be cut off. If this happens, adjust the picture size control of the TV.

LANGUAGE menu

MENU LANGUAGE

You can select the default menu language to be displayed if it is contained on a DVD VIDEO disc.

Setting options

ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have a menu in the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 43.
- You cannot change the setting during playback.

AUDIO LANGUAGE

You can select the default audio language to be played if it is contained on a DVD VIDEO disc.

Setting options

ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 43.
- You cannot change the setting during playback.

SUBTITLE

You can select the default subtitle language to be displayed if it is contained on a DVD VIDEO disc.

Setting options

OFF, ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have a subtitle in the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 43.
- You cannot change the setting during playback.

ON SCREEN LANGUAGE

You can select the on-screen display language of the unit.

Setting options

ENGLISH, FRENCH, GERMAN

- Some on-screen messages are shown in English regardless of the setting.
- You cannot change the on-screen language shown on the MP3 or JPEG display.

PICTURE menu

MONITOR TYPE

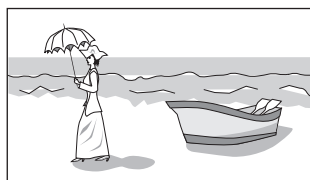
You can select the monitor type to match your TV when you play back DVD VIDEO discs recorded for wide-screen televisions.

Setting options

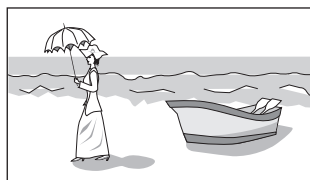
16:9 NORMAL, 16:9 AUTO, 4:3 LB, 4:3 PS

[16:9 NORMAL] (Wide television screen): select when you connect the unit to a wide-screen (16:9) TV whose aspect ratio is fixed to 16:9 (the unit automatically adjusts the screen width of the output signal correctly when playing back a 4:3 source).

If you play a 4:3 DVD VIDEO source using the [16:9 NORMAL] mode, the picture character changes slightly due to the process for converting the picture width.



[16:9 AUTO] (Wide television screen): select when you connect the unit to a wide-screen (16:9) TV.



[4:3 LB] (Letter Box conversion): select when you connect the unit to a normal (4:3) TV.

When playing back a DVD VIDEO disc recorded in wide picture format, the picture is shown with black bars at the top and bottom.

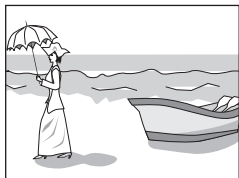


Changing the initial settings

[4:3 PS] (Pan Scan conversion): select when you connect the unit to a normal (4:3) TV.

When playing back a DVD VIDEO disc recorded in wide picture format, the picture is zoomed to fill the screen vertically, and the left and right sides of the image are chopped off.

Note, however, that the picture will be shown in the 4:3 LB mode even if you select the 4:3 PS mode depending on the disc.



PICTURE SOURCE

This mode selects whether the content on the disc is processed by field (video source) or by frame (film source.) You can obtain optimal picture quality according to the source type to be played back by selecting an appropriate option. This setting is available for both the interlaced mode and progressive scanning mode.

Setting options

VIDEO(NORMAL), VIDEO(ACTIVE), FILM, AUTO

[VIDEO(NORMAL)]: select when playing back a video source disc with relatively a few movements.

[VIDEO(ACTIVE)]: select when playing back a video source disc with relatively a lot of movements.

[FILM]: select when playing back a film source disc.

[AUTO]: select when playing back a disc containing both video and film source materials.

The unit recognizes the picture type (film or video source) of the current disc according to the disc information. Normally, select this option.

SCREEN SAVER

You can set the screen saver function to ON or OFF. (See page 13.)

Setting options

ON, OFF

MP3/JPEG

The unit can play MP3 and JPEG files recorded on a CD-R/CD-RW disc. However, if a disc contains both MP3 and JPEG files, you can only play files of the type selected in this menu item.

Setting options

MP3, JPEG

[MP3]: when selected, only MP3 files can be played back.

[JPEG]: when selected, only JPEG files can be played back.

AUDIO menu

DIGITAL AUDIO OUTPUT

To connect the unit's digital output to an external device equipped with a digital input, this item must be set correctly.

See "Appendix C: Digital output signal chart" on page 43 for details about the relation between the setting and output signals.

Setting options

PCM ONLY, DOLBY DIGITAL/PCM, STREAM/PCM

[PCM ONLY]: select when you connect the DIGITAL OUT jack of the unit to the linear PCM digital input of other audio equipment.

[DOLBY DIGITAL/PCM]: select when you connect the digital input of a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder.

When this option is selected, playing back a disc recorded by the MPEG Multichannel format outputs a linear PCM digital signal.

[STREAM/PCM]: select when you connect the digital input of an amplifier with a built-in DTS, MPEG Multichannel or Dolby Digital decoder, or the stand-alone unit of such a decoder.

- With some DVD VIDEO discs that are not fully copy-protected, a 20 or 24 bit digital signal may be output.
- A signal recorded with the 96 kHz sampling frequency is output from the DIGITAL OUT jack with the 48 kHz sampling frequency.
- The unit does not provide the DTS decoding function.
- When playing a DVD VIDEO or Audio CD disc with DTS, use a DTS decoder to get correct signals from your speakers.
- DTS-encoded signal is output only from the unit's DIGITAL OUT jacks.
- If the unit is not connected to audio equipment with a DTS decoder, DTS-encoded signal output from the DIGITAL OUT jacks is distorted.

ANALOG DOWN MIX

To correctly play the audio on a DVD VIDEO disc recorded with surround multichannel audio, you must set this item properly according to your audio system configuration.

(This function does not work when the 3D PHONIC function is activated.)

Setting options

DOLBY SURROUND, STEREO

[DOLBY SURROUND]: select when listening to multichannel surround audio with the unit's analog AUDIO OUT terminals connected to a surround decoder.

[STEREO]: select when listening to conventional two-channel stereo audio with the unit's AUDIO OUT terminals connected to a stereo amplifier/receiver or television set, or in case you want to record the audio from a DVD VIDEO disc to MiniDisc, cassette, etc.

D. RANGE CONTROL

This setting provides optimal audio quality from the analog AUDIO OUT terminals for listening to DVD VIDEO discs recorded in Dolby Digital format, at low or middle volume.

Setting options

WIDE RANGE, NORMAL, TV MODE

[WIDE RANGE]: when selected, audio is played back with the widest dynamic range so that you can enjoy powerful playback sound.

[NORMAL]: normally, select this option.

[TV MODE]: select if DVD VIDEO disc sound level is lower than TV program sound level. Thus you can hear sound at a lower volume clearly.

OUTPUT LEVEL

This setting allows you to attenuate the level of the signal output from the unit's analog AUDIO OUT terminals.

Setting options

STANDARD, LOW

[STANDARD]: normally, select this option.

[LOW]: select if the sound output from the speaker is distorted.

OTHERS menu

RESUME

You can select the resume playback mode.

See pages 13 and 14 for details about the resume playback function.

Setting options

ON, OFF, DISC RESUME


[ON]: when selected, the unit can resume playback of the disc from the position where playback was last interrupted, if the disc is still in the disc slot.

[OFF]: when selected, the resume function is deactivated.

[DISC RESUME]: when selected, the unit can resume playback of the last 30 discs played. The unit retains a memory of the interrupted positions of the last 30 discs played, even though they have been removed from the disc slot.

ON SCREEN GUIDE

The unit can display "on-screen guide" icons or characters on the picture, which show what is happening to the disc or the unit.

Example of "on-screen guide" icons: 

See page 13.

Setting options

ON, OFF

[ON]: when selected, the on-screen guide is activated.

AUTO STANDBY

When the unit is stopped for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.

Setting options

60, 30, OFF

[60]: when selected, the unit enters standby mode automatically after 60 minutes.

[30]: when selected, the unit enters standby mode automatically after 30 minutes.

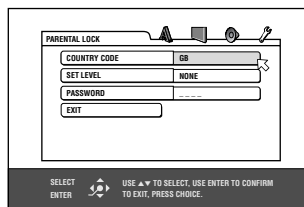
[OFF]: when selected, the unit does not enter standby mode automatically.

AV COMPULINK MODE

This item is provided for use in the future. Leave it as the default setting ("DVD 1").

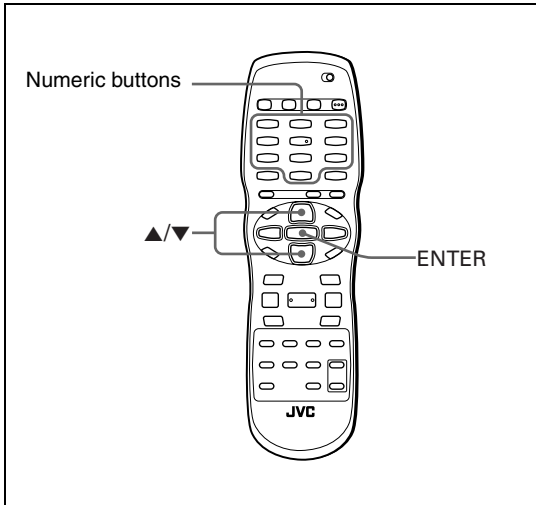
PARENTAL LOCK

When this option is selected, pressing ENTER on the remote control unit brings up the PARENTAL LOCK display shown below. This allows you to restrict children from playing DVD VIDEO discs.

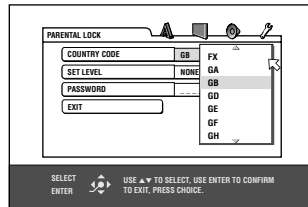


- See following pages for details about the parental lock setting.

Changing the initial settings



See "Appendix A: Country/Area code list for Parental Lock" on page 42.



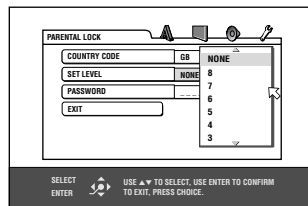
5 Press ENTER.

↵ moves to [SET LEVEL].

6 Press ENTER to bring up the pull-down menu.

In the pull-down menu, [NONE] and levels [8] to [1] are available.

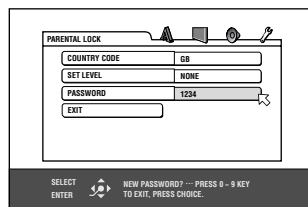
[NONE] does not restrict playback. Level [1] is the strictest level. Discs rated higher than the selected level are restricted.



7 Press ▲/▼ to select a desired parental lock level, then press ENTER.

↵ moves to [PASSWORD].

8 Press the numeric buttons (0 to 9) to enter a 4-digit password.



9 Press ENTER.

The parental lock feature is set.

↵ moves to [EXIT]. Pressing ENTER again returns to the [OTHERS] menu of the preference display.

Hint

If you want to change the password at step 8, do it before pressing ENTER.

Limiting playback by children

This function restricts playback of DVD VIDEO discs which contain violent (and other) scenes according to the level set by the user. For example, if a movie which includes violent scenes supports the parental lock feature, such scenes which you do not want to let children view can be cut or replaced with other scenes.

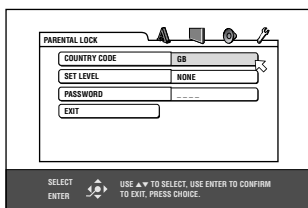
To set Parental Lock for the first time



1 Bring up the OTHERS menu.

2 Press ▲/▼ to move ↵ to select [PARENTAL LOCK] then press ENTER.

The Parental Lock on-screen display appears on the TV screen.



3 While ↵ is pointing to [COUNTRY CODE], press ENTER to bring up the pull-down menu.







4 Press ▲/▼ to select the country code.

Select the code of the country whose standards were used to rate the DVD VIDEO disc content.


To change the settings



You can change the parental lock settings later.

- 1 Bring up the OTHERS menu.**
- 2 Press ▲/▼ to move  to select [PARENTAL LOCK] and press ENTER.**
The parental lock on-screen display appears on the TV screen.
- 3 While  is pointing to [PASSWORD], press the numeric buttons to enter your current 4-digit password then press ENTER.**
 moves to [COUNTRY CODE] if you enter the correct password.
If you enter a wrong password, "WRONG! RETRY..." appears on the TV screen, and you cannot go to the next step.
If you forget your password, enter "8888." The current password is deleted and you can set a new password.
- 4 To change the [COUNTRY CODE] or [SET LEVEL], press ENTER to bring up the associated pull-down menu when  is pointing to the desired item.**
- 5 Press ▲/▼ to select the desired option then press ENTER.**
If you change the country code, you must reselect the parental lock level.
- 6 While  is pointing to [PASSWORD], press the numeric buttons to enter a 4-digit password.**
The password entered in this step becomes the new password. If you want to keep the same password as before, enter the same password.
- 7 Press ENTER.**
 moves to [EXIT]. Pressing ENTER again returns to the [OTHERS] menu of the preference display.

NOTE

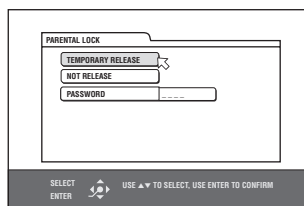
If you enter the wrong password more than 3 times in step 3 above,  moves to [EXIT] automatically and ▲/▼ do not work.

To temporarily release the Parental Lock



If the parental level is set to a strict value, some discs may not play at all. When you insert such a disc and try to play it, the following parental lock on-screen display appears on the TV screen, asking you whether you want the parental lock to be temporarily released or not.


- 1 Press ▲/▼ to move  to [TEMPORARY RELEASE], then press ENTER.**



- 2 Press the numeric buttons (0 to 9) to enter your 4-digit password.**

The parental lock is released, and the unit starts playback. If you enter a wrong password, "WRONG! RETRY..." appears on the TV screen. Enter the correct password.

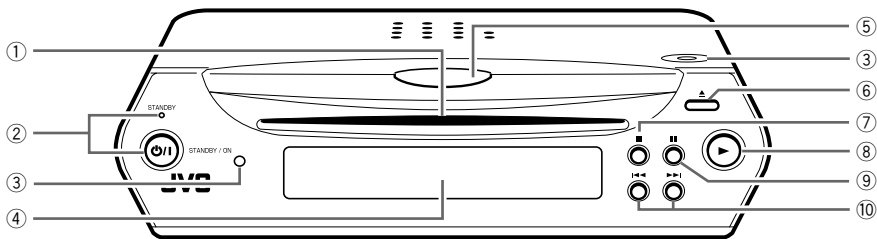
NOTE

When you enter the wrong password 3 times at step 2 above,  moves to [NOT RELEASE] automatically and ▲/▼ do not work. Press EJECT to eject the disc.

Additional information

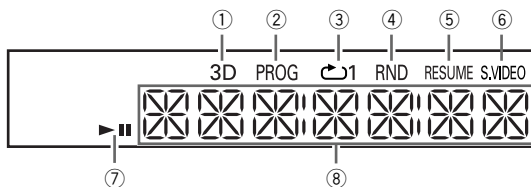
Names of parts and controls

Front panel



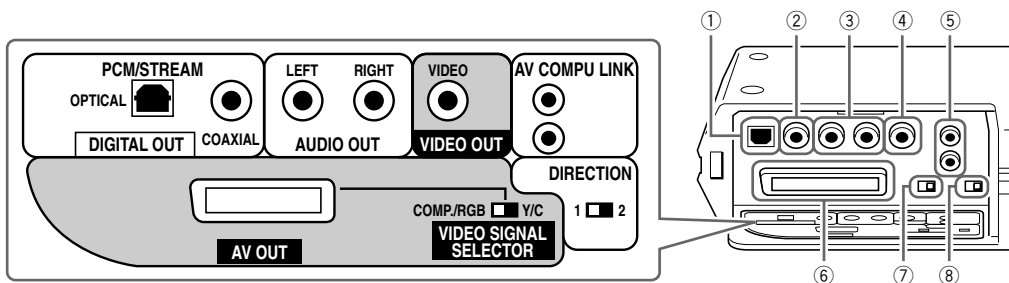
- ① Disc slot (12)
- ② STANDBY indicator (10)
- ③ Remote sensor (8)
- ④ Display window (see the illustration below)
- ⑤ Illumination lamp (8, 12)
- ⑥ ▲ button (13)
- ⑦ ■ button (12, 13)
- ⑧ ► button (12, 14)
- ⑨ || button (13, 15)
- ⑩ |◀▶| buttons (15)

Display window



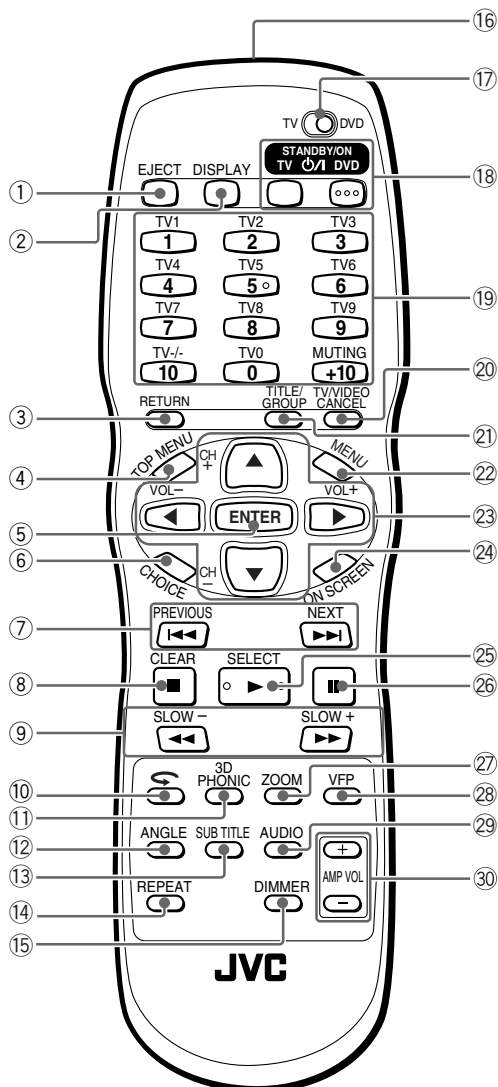
- ① 3D phonic indicator
- ② Program mode indicator
- ③ Repeat mode indicator
- ④ Random indicator
- ⑤ Resume indicator
- ⑥ S.VIDEO indicator
- ⑦ ► (play) / || (pause) indicators
- ⑧ Multi-information window

Connector panel



- ① PCM/STREAM connector
- ② COAXIAL jack
- ③ AUDIO OUT jacks
- ④ VIDEO OUT jack
- ⑤ AV COMPU LINK jacks
- ⑥ AV OUT connector
- ⑦ VIDEO SIGNAL SELECTOR
- ⑧ DIRECTION switch

Remote control unit



- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> ① EJECT button (13) ② DISPLAY button (13) ③ RETURN button (16) ④ TOP MENU button (16) ⑤ ENTER button ⑥ CHOICE button (11, 32) ⑦ ◀◀/PREVIOUS/▶▶/NEXT buttons (15, 26, 30) ⑧ ■/CLEAR button (13, 18, 19, 26) ⑨ ◀◀/SLOW- /▶▶/SLOW+/ buttons (15) ⑩ ↻ button (15) ⑪ 3D PHONIC button (23) ⑫ ANGLE button (21) ⑬ SUBTITLE button (20) ⑭ REPEAT button (19, 28, 31) ⑮ DIMMER button (11) ⑯ Infrared signal window (8) ⑰ TV-DVD switch (9) ⑱ TV/DVD STANDBY/ON ⏻/⏼ buttons (10) | <ul style="list-style-type: none"> ⑲ Numeric buttons (9, 15, 18) ⑳ TV/VIDEO-CANCEL button (18) ㉑ TITLE/GROUP button (16, 27, 31) ㉒ MENU button (16) ㉓ Cursor selection (▲ Up, ▼ Down, ◀ Left, ▶ Right) CH (+/-), VOL (+/-) buttons (9, 24, 32) ㉔ ON SCREEN button (12, 17, 24) ㉕ ▶/SELECT button (12, 14, 26, 30) ㉖ button (13, 15, 26) ㉗ ZOOM button (22) ㉘ VFP button (22) ㉙ AUDIO button (21) ㉚ AMP VOL +/- button (9) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Additional information

Troubleshooting

Power

Power does not come on.

- ➔ Power plug is not inserted securely. Plug in securely.

Operation

“REGION CODE ERROR!” is shown on the TV screen.

- ➔ Region code of the inserted disc does not match the unit. Check the region code of the disc printed on the disc jacket.

Operation is not possible.

- ➔ Microcomputer malfunction due to lightning or static electricity. Turn off the power and unplug the power cord, then connect the power cord again.
- ➔ Moisture condensation caused by a sudden change of temperature or humidity. Turn off the power, then turn it on a few hours later.
- ➔ The disc does not allow the operation, or an unplayable disc is inserted. Check and replace the disc (see page 2).

Any operation does not work using the remote control unit.

- ➔ Set the TV-DVD switch on the remote control unit to “DVD.”

[EJECT LOCK] is displayed on the display window and you cannot eject the disc.

- ➔ When you press ▲ while pressing down ■ on the unit in standby mode, the tray lock function is activated. The disc cannot be ejected in this status. To release this status, press ▲ while pressing down ■ on the unit in standby mode.

Picture

The picture is not displayed properly.

- ➔ Set the VIDEO SIGNAL SELECTOR to the appropriate position (See page 4).

Picture is noisy.

- ➔ The unit is connected to a VCR directly and the copyguard function is activated. Connect the unit so that the picture signal flows directly to the TV.
- ➔ With some discs, the picture may be blurred when [PICTURE SOURCE] is set to [FILM] or [AUTO]. Set [PICTURE SOURCE] to [VIDEO (NORMAL)] or [VIDEO (ACTIVE)].
- ➔ Check that the DIRECTION switch is set to the appropriate position according to your installation (See page 6).

Audio

DVD VIDEO disc playback sound level is lower than TV broadcast sound level.

- ➔ Set the [D.RANGE CONTROL] preference to [TV MODE] (see page 35).

Analog audio output is distorted.

- ➔ Set the [OUTPUT LEVEL] preference to [LOW] (see page 35).

Sound is abnormal when DTS-encoded source is played back.

- ➔ Connect audio equipment with a built-in DTS decoder to the unit.
- ➔ Play back a source other than DTS-encoded one.
- ➔ Analog output cannot be done with the unit.

MP3

No sound comes out.

- ➔ MP3 disc is recorded with the “packet writing (UDF format)” It cannot be played.

Files (tracks) are not played in the recorded order.

- ➔ This unit plays the files in the alphabetic order. So, the playback order can vary.

The preference display is not displayed.

- ➔ You cannot display the preference display when an MP3 disc is inserted.

JPEG

No picture is played back.

- ➔ When playing back a JPEG file, only the baselined-JPEG file is available.

The screen turns black.

- ➔ When playing back a JPEG file, only the baselined-JPEG file is available.

The preference display is not displayed.

- ➔ You cannot display the preference display when a JPEG disc is inserted.

Specifications

Specifications and appearance are subject to change without prior notice.

General

Readable discs DVD VIDEO, DVD-R (Video format), DVD-RW (Video format), +RW (Video format), SVCD, Video CD, Audio CD (CD-DA), MP3 format, JPEG, CD-R/RW (CD-DA, SVCD, Video CD, MP3 format, JPEG)

Video format PAL

Other

Power requirements AC 230 V ~, 50 Hz

Power consumption 12 W (POWER ON), 0.7 W (STANDBY mode)

Mass 1.7 kg

Dimensions (W × H × D) 218 mm × 58 mm × 270 mm

Video outputs

VIDEO OUT (pin jack) 1.0 Vp-p (75 Ω)

Horizontal resolution 500 lines or more

RGB 700 mVp-p (75 Ω)

Audio outputs

ANALOG OUT (pin jack) 2.0 Vrms (10 kΩ)

DIGITAL OUT (COAXIAL) 0.5 Vp-p (75 Ω termination)

DIGITAL OUT (OPTICAL) -21 dBm to -15 dBm (peak)

Audio characteristics

Frequency response

- CD (sampling frequency 44.1 kHz): 2 Hz to 20 kHz
- DVD (sampling frequency 48 kHz): 2 Hz to 22 kHz (4 Hz to 20 kHz for DTS and Dolby Digital bitstream signals)
- DVD (sampling frequency 96 kHz): 2 Hz to 44 kHz

Dynamic range

- 16 bit: More than 98 dB
- 20 bit: More than 100 dB
- 24 bit: More than 100 dB

Wow and flutter Unmeasurable (less than + 0.002%)

Total harmonic distortion less than 0.006%

- Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works.
- Manufactured under license from Digital Theater Systems, Inc. “DTS,” “DTS Digital Surround,” are trademarks of Digital Theater Systems, Inc.

Appendix A: Country/Area code list for Parental Lock

(for page 36)

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia

FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia

LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena

SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

Appendix B: Table of languages and their abbreviations (for pages 20 and 33)

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

Appendix C: Digital output signal chart

(for page 34)

Disc type	Output		
	PCM ONLY	DOLBY DIGITAL/PCM	STREAM/PCM
DVD with 48 kHz, 16/20/24 bit linear PCM	48 kHz, 16 bit, stereo linear PCM		
DVD with 96 kHz, 16/20/24 bit linear PCM	48kHz, 16 bit, stereo linear PCM (Down sampling)		
DVD with DTS	No output		DTS bitstream
DVD with Dolby Digital	48 kHz, 16 bit, stereo linear PCM	Dolby Digital bitstream	
DVD with MPEG Multichannel	48 kHz, 16 bit, stereo linear PCM		MPEG bitstream
SVCD/Video CD/Audio CD	44.1 kHz, 16 bit, stereo linear PCM		
Audio CD with DTS	No output		DTS bitstream
CD-R/RW with MP3	Linear PCM		

Appendix D: Glossary

Aspect ratio

A ratio which defines the shape of the rectangular picture in a TV. It is the width of the picture relative to the height. A conventional TV picture is 4:3 in aspect ratio.

Bitstream

The digital form of multichannel audio data (e.g., 5.1-channel) before it is decoded into its various channels.

Chapter/title

Chapter is the smallest division and title is the largest division on DVD VIDEO. A chapter is a division of a title and similar to a track for Video CD or Audio CD.

Dolby Digital (AC3)

A six-channel system consisting of left, center, right, left rear, right rear and LFE (Low-Frequency Effect channel, for use with a sub-woofer) channels. All processing is done in the digital domain. Not all Dolby Digital discs contain six (5.1) channels of information.

Dolby Surround/Dolby Pro Logic

Dolby Surround records four channels of front and rear audio in two channels in a way that allows a decoder to recover the original four channels for playback. Because the audio is recorded in two channels, it can be played back naturally by a two-channel stereo system. Dolby Pro Logic introduces directional circuits in decoder-side processing (increasing the level of specific channels and lowering the level of silent channels) for greater spatial perspective, and adds a center speaker used primarily for dialog. The result is enhanced channel separation.

Down-mix

Internal stereo mix of multichannel surround audio by a DVD player. The down-mix signals are output from stereo output connectors.

DTS

A Digital Surround audio encoding format configured with six (5.1) channels, similar to Dolby Digital. It requires a decoder, either in the player or in an external receiver. DTS stands for Digital Theater Systems. Not all DTS discs contain six (5.1) channels of information.

Dynamic range

The difference between the loudest and softest sounds.

JPEG

A popular file format for still image compression and storage.

JPEG stands for Joint Photographic Experts Group.

There are three sub-types of the JPEG format as follows.

- baseline JPEG: used for digital cameras, the web, etc.
- progressive JPEG: used for the web
- lossless JPEG: an old type, rarely used now

Linear PCM audio

PCM stands for "pulse code modulation." Linear PCM is the usual method for digitally encoding audio without compression, and is used for the audio tracks on DVD VIDEO discs, Audio CDs, etc.

MP3

MP3 is an audio data compression format, which stands for MPEG-1 Audio Layer 3. Using MP3, you can achieve a data reduction of about 1:10.

MPEG

A family of Standards for compressing audio-visual information. "MPEG" standards include MPEG-1, MPEG-2 and MPEG-4. Video CD and MP3 are based on MPEG-1, while DVD is based on MPEG-2. MPEG stands for Moving Picture coding Experts Group.

MPEG Multichannel

This feature expands the 5.1 channel audio format recorded on the disc to a 7.1 channel format. The further expansion of the 5.1 channel audio makes it easy for you to reproduce the movie theater experience in your own home.

NTSC (National television system committee)

A black and white and color television system format used in the U.S.A., Canada, Mexico and Japan.

PAL (Phase Alternation by Line)

A color television system format used extensively in Western Europe.

PBC

PBC stands for "Playback control" and is a method of controlling disc play for Video CDs (VCD). You are able to interact with the disc through menus.

RGB

An abbreviation for Red, Green, and Blue. Color monitors and color television sets display different hues by mixing these three colors.

Track

The smallest division on SVCD, Video CD and Audio CD discs.

SAFETY INSTRUCTIONS

“SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT”

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way—switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

- NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case -this could result in a fatal electrical shock.;
- NEVER guess or take chances with electrical equipment of any kind -it is better to be safe than sorry!

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VICTOR COMPANY OF JAPAN, LIMITED

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