





Warnings, Cautions and Others Mises en garde, précautions et indications diverses



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended toalert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS", ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS. CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMERIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

CAUTION

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

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

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

- Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
- 2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

Caution — STANDBY/ON 0/| button!

Disconnect the mains plug to shut the power off completely (the STANDBY/ON lamp goes off). The STANDBY/ON 0/| button in any position does not disconnect the mains line.

- When the unit is on standby, the STANDBY/ON lamp lights red.
- When the unit is turned on, the STANDBY/ON lamp lights green.

The power can be remote controlled.

Attention — Commutateur STANDBY/ON 0/|!

Déconnectez la prise d'alimentation secteur pour mettre l'appareil complètement hors tension (le témoin STANDBY/ON $\bigcirc / |$ s'éteint). L'interrupteur STANDBY/ON $\bigcirc / |$, sur n'importe quelle position, ne peut pas déconnecter l'appareil du secteur.

- Quand l'appareil est en mode de veille, le témoin STANDBY/ ON est allumé en rouge.
- Quand l'appareil est sous tension, le témoin STANDBY/ON est allumé en vert.

L'alimentation peut être télécommandée.

IMPORTANT FOR LASER PRODUCTS IMPORTANT POUR LES PRODUITS LASER

- 1. CLASS 1 LASER PRODUCT
- DANGER: Visible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the top cover. There are no user service-able parts inside the Unit; leave all servicing to qualified service personnel.
- 1. PRODUIT LASER CLASSE 1
- ATTENTION: Radiation laser visible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
- ATTENTION: Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

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.

ATTENTION

- Ne bloquez pas les orifices ou les trous de ventilation. (Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles
- N'exposez pas cet appareil à la pluie, à l'humidité, à un égouttement ou à des éclaboussures et ne placez pas des objets remplis de liquide, tels qu'un vase, sur l'appareil.

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Supplied accessories

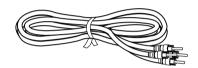
• Audio/video cable (Yellow/White/Red) (x 1)



• Component video cable (Red/Green/Blue) (x 1)



• Audio cable (White/Red) (x 2)



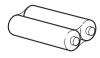
• Remote Control Unit (x 1)



• AV compulink cable (x 1)



• R6P(SUM-3)/AA(15F) battery (x 2)



- AC power cord (x 1)
- AC power plug adaptor (x 1) (for PX model only)

English

Notes on handling

Important cautions

Installation of the unit

- Select a place which is level, dry and neither too hot nor too cold (between 5°C and 35°C, 41°F and 95°F).
- Leave sufficient distance between the unit and the TV.
- Do not use the unit in a place subject to vibrations.

Power cord

- Do not handle the power cord with wet hands!
- A small amount of power (2.0 W, for PX model:3.4 W) 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.

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 object into the unit.
- Do not use any non-standard shape disc available on the market, because it may damage the unit.
- Do not use a disc with tape, seals, or paste on it, because damage to the unit may result.

Note about copyright laws

 Please check the copyright laws in your country before recording from DVD AUDIO, DVD VIDEO, SVCD, Video CD, Audio CD, MP3 and JPEG discs. Recording of copyrighted material may infringe copyright laws.

Note about the copyguard system

 The DVD VIDEO disc is protected by the copyguard system. When you connect the unit to your VCR (or integrated TV/Video system), the copyguard system activates and the picture may not be played back correctly.

Safety precautions

Avoid moisture, water and dust

Do not place the unit in moist or dusty places.

Avoid high temperatures

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

When you are away

When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet.

Do not insert foreign objects into the unit

Do not insert wires, hairpins, coins, etc. into the unit.

Do not block the vents

Blocking the vents may damage the unit.

Care of the cabinet

When cleaning the unit, use a soft cloth and 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.

If water gets inside the unit

Turn off the power and remove the plug from the wall outlet, then call the store where you made your purchase. Using the unit in this state may cause a fire or electrical shock.

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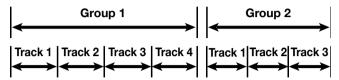
Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762, and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2000 Digital Theater Systems, Inc. All Rights Reserved.



Disc structure

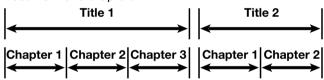
(For DVD AUDIO)

A DVD AUDIO disc is comprised of "groups," and each group is comprised of "tracks." Some DVD AUDIO discs also contain a "bonus group" that can be played back by entering the "key number" (a kind of password). Usually the contents of a "bonus group" are not opened to the public. Note that most DVD AUDIO discs include other information in addition to audio, such as still pictures, movies and text.



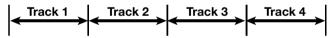
(For DVD VIDEO)

A DVD VIDEO disc is comprised of "titles" and each title may be divided into some "chapters." For example, if a DVD VIDEO disc contains some movies, each movie may have its own title number, and each movie may be divided into some chapters. In a DVD VIDEO KARAOKE disc, each song usually has its own title number and does not have chapters.



(For SVCD/Video CD/Audio CD)

An SVCD, Video CD or Audio CD is simply comprised of "tracks."



Video CDs and SVCDs with Playback **Control function**

What is Playback Control (PBC) function?

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

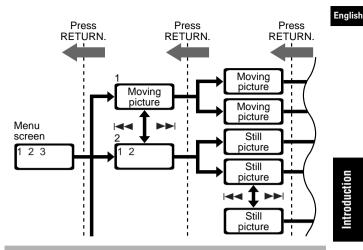
High-resolution still image display

You can display high-quality images four times clearer than moving pictures.

Menu-driven playback

A selection menu is displayed when you start playing an SVCD and Video CD disc with the Playback Control feature. The selection menu shows a list of numbers for selection. Some discs may show moving pictures or a divided screen. You can interact with the screen using a menu display to select and play an entry.

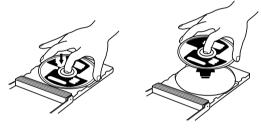
See example illustration below about basic feature of menu-driven playback (for details about PBC, see also page 26).



Care and handling of discs

How to handle discs

When handling a disc, do not touch the surface of the disc. Since discs are made of plastic, they are easily damaged. If a disc gets dirty, dusty, scratched or warped, the images and sound will not be picked up correctly, and such a disc may cause the player to malfunction.



Label side

Do not damage the label side, stick paper to or use any adhesive on its surface.

Storage

Make sure that discs are kept 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 in a place where the humidity or temperature is high. Avoid leaving discs in your car!

Maintenance of discs

If there are fingerprints or other dirt adhering to a disc, 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.



CAUTION

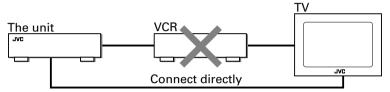
Sometimes during play images may be garbled or noisy. This is sometimes due to the disc.

Connections

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

Before making any 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.



NOTES

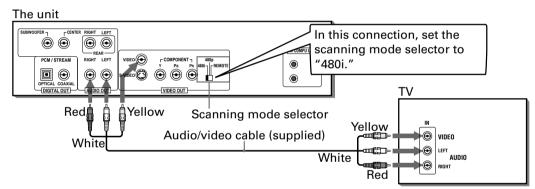
- In the following description, "TV" may be substituted with "monitor" or "projector."
- Terminal names used for other components may be different from those used in the following description.

To connect to a TV

Connection to a conventional TV

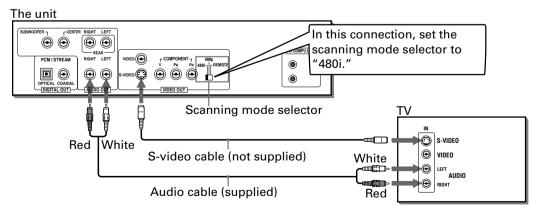
You can enjoy playback by simply connecting the unit to a TV.

Connect the unit to a TV equipped with stereo audio input and video input jacks using the supplied audio/video cables.



Connection to a TV equipped with an S-video jack

If your TV has an S-video input, you can get better picture quality by connecting it with the S-VIDEO output of the unit using the S-video cable instead of connecting the video input of the TV to the VIDEO jack of the unit.



About SCANNING MODE

To display video on the television (monitor) screen, the conventional scanning method is called "Interlaced scanning." With this method, only half of the horizontal lines are displayed at a time. So two fields complete a single picture (frame); i.e., the first field, containing all the odd-numbered lines, is displayed followed by the second field, containing all the even-numbered lines.

On the other hand, the Progressive scanning system scans all horizontal lines at a time, so you can double the number of pictures compared with the interlaced scanning, resulting in flicker-free, high-density picture.

Depending on the material source format, DVD VIDEO discs can be classified into two types; film source and video source (note that some DVD VIDEO discs contain both film source and video source). Film sources are recorded as 24-frame-per-second information, while (NTSC) video sources are recorded as 30-frame-per-second (60-field-per-second interlaced) information.

When the unit plays back a film source material, uninterlaced progressive output signals are created using the original information. When a video source material is played back, the unit interleaves lines between the interlaced lines on each to create the interpolated picture and outputs as the progressive signal.

To make the Progressive scanning mode selection active from the remote control unit

The unit supports the Progressive scanning system as well as the conventional Interlaced scanning system. If your television or monitor supports the progressive video input, you can enjoy a high quality picture by making the Progressive scanning mode active.



If you want to select the scanning mode between the interlace and progressive modes depending on the source condition or when connecting more than one television, you can select the mode from the remote control unit. To do this, set the scanning mode selector on the rear panel to "REMOTE."

When the unit is turned on, and the scanning mode selector on the rear panel is set to "REMOTE."

Press and hold down VFP - PROGRESSIVE SCAN for a few seconds.

The scanning mode switches between the Progressive scanning and Interlaced scanning modes.

When the scanning mode is set to the progressive mode, the PROGRESSIVE indicator on the front panel is lit.
Depending on the "PROGRESSIVE MODE" setting on the "PICTURE" preference display and whether the current
DVD VIDEO disc is film-source or video-source, the color of the indicator differs, as shown in the table below
(see also pages 7 and 59).

Setting of	Source type	of DVD VIDEO	Note
PROGRESSIVE MODE	Film Source	Video Source	lvote
VIDEO	Red	Red	While stopped in the Progressive scanning
FILM	Green	Green	mode, the PROGRESSIVE indicator is lit in red regardless of the "PROGRESSIVE MODE"
AUTO	Green	Red	selection.





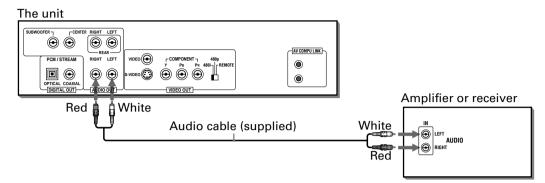
NOTES

- There are some progressive TV and High-Definition TV sets that are not fully compatible with the unit, resulting in the unnatural picture when playing back a DVD VIDEO disc in the Progressive scanning mode. In such a case, use the Interlaced scanning mode. To check the compatibility of your TV set, contact your local JVC customer service center.
- All JVC progressive TV and High-Definition TV sets are fully compatible with the unit (Example : AV-61S902).

To connect to a stereo audio amplifier/receiver

English

You can enjoy high-quality audio by connecting the unit's audio output to your amplifier or 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.



NOTES

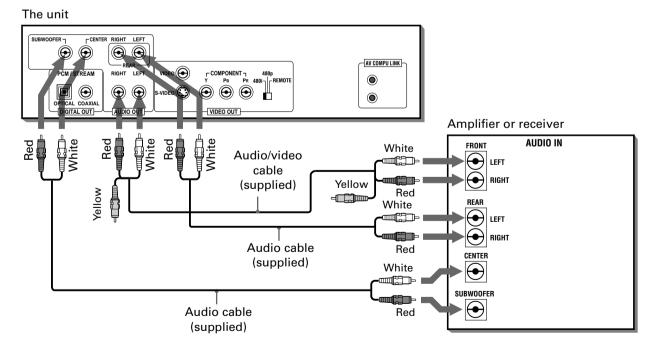
- When using the unit with a stereo amplifier or receiver, set "ANALOG OUT" in the "AUDIO" preference display to "2-CH STEREO" (see page 61).
- If your stereo amplifier or receiver has an AV COMPU LINK terminal, you can use the AV COMPU LINK function. See "AV COMPU LINK remote control system" on page 71 for details

To connect to an amplifier/receiver equipped with 5.1-channel inputs

The unit supports the linear PCM multichannel format of DVD AUDIO and can feed multichannel audio output signals from the six analog AUDIO OUT jacks.

It is also equipped with the DTS and Dolby digital decoders. So you can enjoy any type of the high quality surround sounds by connecting the unit to an amplifier/receiver equipped with the 5.1-channel inputs.

Connect the unit's analog AUDIO OUT jacks to the analog 5.1-channel inputs of an amplifier or receiver using the supplied audio cables.



Be sure to connect correctly between corresponding terminals. The order of the 5.1-channel terminals depend on units.

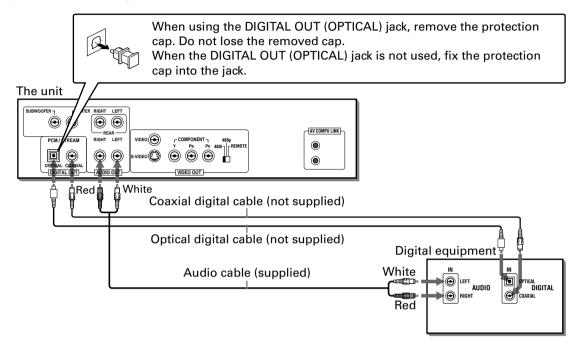
NOTES

• When using the 5.1-channel outputs of the unit, set the "ANALOG OUT" in the "AUDIO" preference display to "MULTI CHANNEL" (see page 61). If you select "EXPERT" in the "SPK.SETTING" preference display, you can control the audio output balance of the speakers (see page 62).

To connect to a digital audio device

You can enhance the sound quality by connecting either of the unit's DIGITAL OUT jacks to the digital input of an amplifier, etc. by using an optical or a coaxial digital cable (optional). The digital audio signal from a disc is directly transferred. If you connect the unit to a Dolby Digital or DTS decoder or an amplifier with a built-in decoder by using an optional digital cable, you can enjoy high-quality surround sound.

For digital connection, connect the unit's DIGITAL OUT (OPTICAL or COAXIAL) to the digital input of digital audio device using an optical or a coaxial digital cable.



Note that the DIGITAL OUT jacks on the unit have been designed and equipped exclusively for enjoying the digital surround sound playback through the unit. It is not recommended to use the jacks for digital dubbing. When recording the sounds (DVD AUDIO, DVD VIDEO, SVCD, Video CD, or Audio CD) played back on the unit, record them through the analog jacks (in this case, set "ANALOG OUT" in the "AUDIO" preference display to "2-CH STEREO") (see page 61).

NOTES

- When you connect the unit's DIGITAL OUT to a digital audio device, before using, set "DIGITAL AUDIO OUTPUT" in the "AUDIO" preference display correctly according to the connected audio device. If "DIGITAL AUDIO OUTPUT" is not set correctly, loud noise may be generated from speakers, causing damage to them. See "DIGITAL AUDIO OUTPUT" on page 60.
- When you connect the unit's DIGITAL OUT to a Dolby Digital or DTS decoder (or amplifier with a built-in decoder) to enjoy surround sound, the unit's "D. RANGE COMPRESSION" setting in the "AUDIO" preference display is invalid. Make appropriate surround audio settings on the decoder.
- If your digital audio device has an AV COMPU LINK terminal, you can use the AV COMPU LINK function. See "AV COMPU LINK remote control system" on page 71 for details.

Getting started

When all the audio/video connections have been made, insert the smaller plug of the supplied AC power cord to the



To use the remote control unit for TV operation

You can operate your TV from the remote control unit.

Setting the remote control signal for operating your TV

- 5 Release T
- 6 Try to ope TV STANE If your TV the contro

The follow TV.
To use ▲/¹
CANCEL a
TV - DVD §

√IDEO -,, set the



- 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:

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



4 Pre

ar code list

ei co	er code list		
₄cturer	No.		
.A	36		
<i>E</i> IJING	22		
¢CE	02		
CHANGHONG	34		
DAEWOO	-		
FERGUSON/	Γ		
FINLUX			
FUNAI /			
GRADJENT'			
GRUNDIC			
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Basic operations

In the following description, we assume that the buttons on the remote control unit are mainly used, however, you may use the corresponding buttons on the front panel if available.

NOTE



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the \triangle/∇ /| and numeric buttons for controlling the unit.

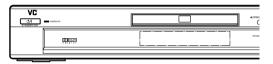
Before operation

Turning on/off the unit

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

When the unit turns on, the STANDBY/ON indicator on the front panel, which illuminates in red during standby, lights in green.







- You can turn on the unit by pressing the ► button. In this case, the unit starts playback if the disc is set in the disc tray.
 If no disc is set, "NO DISC" appears on the display window.

The opening display shown right appears on the TV screen.

The following message may appear at the bottom of the opening display depending on the condition.

- 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.

OPEN: The disc tray is opening.
 CLOSE: The disc tray is closing.

• NO DISC: No disc is loaded.

• RESUME STOP: The resume mode is set to "DISC RESUME."

When turning on the unit for the first time, the DVD PLAYER SET UP display automatically appears (see page 15).

NOTE

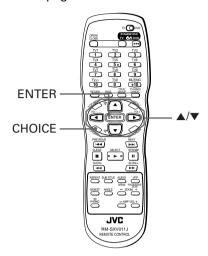
• Even if you press DVD STANDBY/ON on the remote control unit or STANDBY/ON on the front panel to turn off the unit, the unit is not disconnected from the AC power source as long as it is connected to the wall outlet. This state is called the standby mode. In this state, the unit consumes a very small amount of power.

The initial setup before using the unit

We recommend you to set the display language, TV monitor type, analog audio output and digital output before using the unit, depending on circumstances, by following the procedure below.

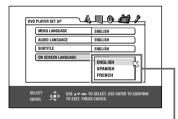
When turning on the unit for the first time, the DVD PLAYER SET UP display automatically appears. In such a case, perform the following procedure from step 2.

See "Changing the initial settings" on and after page 56 for details about each setting item.



1 Press and hold down CHOICE for a few seconds to bring up the first page of the DVD PLAYER SET UP display.

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



ON SCREEN LANGUAGE selection

2 Use ▲/▼ to select a desired language.

You can select the on-screen language for the preference displays, etc. from among English, Spanish and French.

3 Press ENTER.

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



MONITOR TYPE selection

4 Use **△**/**▼** to select a desired monitor type.

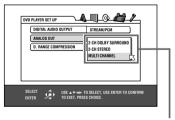
You can select the monitor type according to your TV.

- For the normal (conventional) TV, select "4:3 LB" or "4:3 PS."
- For the wide-screen TV, select "16:9 AUTO" or "16:9 NORMAL."

See page 59 for details about each mode.

5 Press ENTER.

The third (final) page is shown, in which the pull-down menu of the "ANALOG OUT" is already open.



ANALOG OUT selection

6 Use **▲**/**▼** to select a desired analog output signal type.

You must set this item correctly when you play back a DVD VIDEO disc recorded with surround multichannel audio.

- When connecting with a surround decoder, select "2-CH DOLBY SURROUND."
- When connecting with a stereo amplifier/receiver or television set, select "2-CH STEREO."
- When connecting the unit's 5.1 channel audio outputs to an amplifier equipped with 5.1-channel input, select "MULTI CHANNEL."

See page 61 for details.

7 Press ENTER.

The pull-down menu of the "DIGITAL AUDIO OUTPUT" appears.

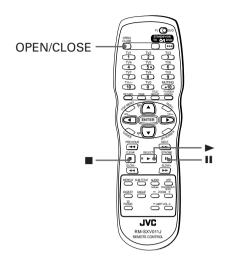
DIGITAL AUDIO OUTPUT selection

8 Use **△**/**▼** to select a desired digital output signal type.

You must set this item correctly when you connect the unit to an external surround decoder or D/A convertor (including an

Basic playback

This section describes basic operations for playback o For MP3 and JPEG disc playback, see the separate cha





Inserting and removing discs

- 1 Press ■ OPEN/CLOSE to open the disc tray.
- **2** Place a disc in the tray.
- **3** Press **△** OPEN/CLOSE to close the disc tray.

The unit reads the disc information and the opening display appears on the TV screen.

When a DVD AUDIO disc is loaded, the DVD AUDIO

indicator lights in blue.



If a menu is shown on the TV screen

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

(for DVD AUDIO/DVD VIDEO)

- 1 Use **▲**/**▼**/**◄**/**▶** to select a desired item.
- 2 Press ENTER.

The unit starts playback of the selected item.

(for SVCD/Video CD)

Use the numeric buttons to select a desired item.

The unit starts playback of the selected item.

NOTES

- Do not load a non-playable disc. For details about playable and non-playable disc types, see page 4.
- When loading a disc on the tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the tray is closed, or the disc may not be removed from the unit.
- Do not use any stabilizer when playing back a disc.
- With some DVD VIDEO discs, the unit starts playback automatically after inserting the disc.
- If you insert a DVD VIDEO disc whose region code does not match the unit, "REGION CODE ERROR!" is shown in the opening display. For detail about the region code, see page 4.



 To insert an 8-cm disc, place it in the inner recess.

To start playback

Available : DVD AUDIO VIDEO VCD CD Audio CD











Press ►.

The unit starts playback from the beginning.



About screen saver function

- A television monitor screen may be burned out if a static picture 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.
- · Pressing any buttons on the unit or the remote control unit will release the screen saver function and return to the previous display.
- You can also turn off the screen saver function (see page 60).

While the screen saver function is not activated



While the screen saver function is activated



About On-screen guide icons

When you make an operation, you may see the following icons displayed over the picture for about 3 seconds. These have the following meanings.

You can set the unit not to display these icons below via the preference settings described on page 63.

lcon	Status
	Appears at the beginning of playback mode.
	Appears at the beginning of pause mode.
	Appears at the beginning of fast forward/backward playback with the current speed (see page 21).
	Appears at the beginning of slow-motion playback with the current speed (see page 21).
ථ	Appears at the beginning of Repeat playback mode (see page 33).
821	Appears at the beginning of a scene recorded from multiple angles (see page 37).
0))	Appears at the beginning of a scene recorded with multiple audio languages (see page 36).
	Appears at the beginning of a scene recorded with multiple subtitle languages (see page 35).
\bigcirc	Appears when the unit does not accept your operation because of disc contents, structure, playback status etc.
	Note that some operations are occasionally unacceptable even if \bigcirc is not displayed. (This icon appears even when ON SCREEN GUIDE in the preference display is set to OFF.)

NOTES

- When the RESUME function is "ON" or "DISC RESUME" and the resume point is memorized, pressing ➤ starts playback from that point instead of the beginning. See page 20.
- During playback, the display window shows the title/chapter, group/track, or track number being played.
- During DVD VIDEO playback, pressing ➤ moves back the playback position 10 seconds before the current position. See page 25 for details.

To stop playback completely











Press ■.

The unit stops playback.



To stop playback temporarily













The unit pauses playback. To resume playback, press ▶.

Basic operation

Resuming playback

The unit can memorizes the position on a disc where you interrupt playback, and resume playback from that position later. There are two resume modes (DISC RESUME and ON) you can set on the preference display. See page 63 for details about how to set the resume mode.



- When purchasing the unit, the resume mode is initially set to "ON".
- You can deactivate the resume mode by setting "RESUME" on the "OTHERS" preference display to "OFF".

During playback

When the resume mode is set to "DISC RESUME"

Press ■.

The unit stops playback and memorizes the interrupted position. After pressing ■, the display window on the front panel shows "----RESUME."

In this condition, a memory of the interrupted position is not cleared if you press \triangle OPEN/CLOSE to open the disc tray, or press DVD STANDBY/ON on the remote control unit or STANDBY/ON on the front panel to turn off the unit.



- The position interrupted is also memorized by pressing OPEN/CLOSE, DVD STANDBY/ON on the remote control unit or
 ≜ OPEN/CLOSE, STANDBY/ON on the front panel. In this case, "----RESUME" is not shown on the display window.
- If you do not want the disc played to resume playback, press while stopped.
- It memorizes positions for the last 30 discs.
- · If you interrupt playback of a disc which you resumed playback, the memory is updated to store the new interrupted position.
- When the unit has already memorized positions for 30 discs, memo

When the resume mode is set to "DISC RESUME"

- While stopped, or no disc is inserted
 - 1 Press ■ OPEN/CLOSE to insert a disc whose interrupted position is memorized.

After loading the disc, the display window on the front panel shows "----RESUME" and "RESUME STOP" appears at the bottom of the opening display.

If a disc for which you want to resume playback is already set in the disc tray, you need not to follow this step.

2 Press ►.

The display window shows "RESUME PLAY" and the unit resumes playback from the position you interrupted playback.

The unit keeps the memory for the position on a disc where you interrupted playback, even though you remove the disc from the disc tray and set it back again.

Of course, the unit keeps the memory when the disc remains in the disc tray since the last playback.

• To play back a disc from the beginning (instead of the interrupted position)

After loading the disc, press ■ before pressing ► to start playback.

Pressing ■ while the disc is stopped clears the memory for the interrupted position.

Every time you interrupt playback, the position is memorized as the "resuming" point.

When the resume mode is set to "ON"

• While the disc you interrupted playback last time* is still on the disc tray (*by pressing ■).

Press ►.

The unit resumes playback from the position you interrupted playback.

If you press ► then ■

Variable speed playback

You can play back slowly or fast, or advance a picture frame by frame.



To advance or reverse playback rapidly while monitoring

Available : DVD AUDIO VIDEO VCD CD Audio CD









During playback

Method 1 (from the remote control unit only)

Press **◄** or **▶** •.

Each press of ◀◀ or ▶▶ increases the playback speed. You can select the speed among 2 x, 5 x, 10 x, 20 x and 60 x the normal speed.

Pressing ► returns the unit to normal playback.

Method 2

Hold down I or ▶►I.

Holding down ►►I advances playback rapidly, while holding down I◄◄ reverses playback rapidly at five times the normal speed. Releasing the button returns the unit to normal playback.

NOTES

- During this operation, the sound is muted except when a DVD AUDIO and an Audio CD are played back. When playing back them in this function, the sound will come out discontinuously.
- . This function does not work for an MP3 disc.

To advance a still picture frame-by-frame







While paused (still)

Press II.

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

Pressing ► returns to normal playback.

To play back in slow-motion







You can play back the picture in slow-motion. The speed can be selected among 1/32 x, 1/16 x, 1/8 x, 1/4 x and 1/2 x the normal speed.

During playback

Press \blacksquare , then use $\blacktriangleleft \blacktriangleleft / \triangleright \triangleright$.

To play forward slow-motion, press ▶▶, and to play reverse slow-motion (for DVD VIDEO discs only), press ◄◄. First, the unit plays the slowest speed, and each time you press the button, the playback speed increases. Pressing ▶ returns to normal playback. Pressing II pauses slow-motion playback.

NOTES

- The sound is muted during slow-motion playback.
- . Reverse slow-motion playback is not possible for an SVCD and Video CD.

To

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To loca

● For DVD \ During playback or while stopped During playback

For SVCD/ → CD: During playback without PBC function

Press I ◀◀ or ▶►I.

With a ND AUDIO, pressing the button skips a group or track depending on the disc configuration. Wit VIDEO, pressing the button skips a chapter or title depending on the disc configuration. With an SVCD, Audio C.), pressing the button skips a track.

The selection number appears in the display window on the front panel.

- To skip forward titles/chapters/groups/tracks, press ▶►I as many times as required.
- To skip to the beginning of the current titles/chapters/groups/tracks, press I◄◄ once.
 To skip book titles/chapters/groups/tracks, press I◄◄ as many times as required.

t work with some DVD VIDEO discs.
 vork during SVCD/Video CD playback with PBC function (see pages 5 and 26).

22

To locate a desired selection using the numeric buttons

English

Available: AUDIO VIDEO VCD CD CD









 For DVD AUDIO/DVD VIDEO/Audio CD: During playback or while stopped For SVCD/Video CD:

During playback without PBC function or while stopped

Use the numeric buttons to specify the number.

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

Unit status	Disc type	What is specified
	DVD AUDIO	group or track*1
While stopped	DVD VIDEO	title or chapter*2
	SVCD/Video CD/Audio CD	track
	DVD AUDIO	track
During playback	DVD VIDEO	chapter
	SVCD/ Video CD/Audio CD	track

^{*1} Pressing the numeric buttons simply selects a track. To select a group (When a disc contains more than one group), press TITLE/GROUP before pressing the numeric buttons.

The selected title, group or track number appears in the display window on the front panel.

• To select a number between 1 and 10: Press the corresponding button for the number.

To select a number higher than 10: Use the +10 button.

Examples:

To select 13: $+10 \rightarrow 3$

 $+10 \rightarrow +10 \rightarrow +10 \rightarrow 4$ To select 34: To select 40: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 10$

The unit starts playback from the beginning of the selection. The selected title, chapter, group or track number appears in the display window on the front panel.

NOTES

- You can also specify the desired title during DVD VIDEO playback. See page 27 for details.
- . During DVD AUDIO/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.

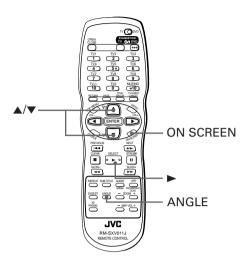
The title, chapter, group or track you have selected is not contained in the disc.

This function does not work during SVCD/Video CD playback with PBC function (see pages 5 and 26).

^{*2} Pressing the numeric buttons simply selects a chapter when a disc contains only one title, or selects a title when a disc contains more than one title.

Other convenient functions

You can check the playback status, as well as change the brightness of the display window. Also, you can move back the playback position 10 seconds from the current position.



To check the playback status

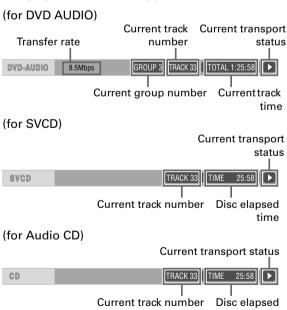
Available : DVD DVD Super Video CD CD

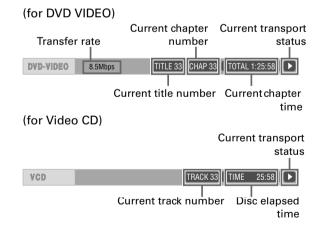
You can see the current selection number (the group/track number for DVD AUDIO, the title/chapter number for DVD VIDEO or the track number for SVCD/Video CD/Audio CD), time information (the track, group or chapter time while stopped, or the elapsed track, group or chapter time during playback) and the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

During playback or while stopped

Press ON SCREEN.

The playback status bar appears on the TV screen.





time

English

The indication on the right most of the status bar shows the unit's transport status as follows:

lcon	Status
	Appears in the playback mode.
0	Appears in the stop mode.
	Appears in the pause mode.
	Appears in the fast forward/backward playback mode.
	Appears in the slow-motion playback mode.

Note that pressing ON SCREEN again brings up the menu bar under the status bar, from which you can access various functions.

(Example of the menu bar for DVD VIDEO)



See page 42 for details about the menu bar.

NOTES

. To dismiss the status bar:

Press ON SCREEN until the status bar is dismissed.

• The status bar cannot be displayed during MP3/JPEG playback.

To move back the playback position while DVD VIDEO playback [One touch replay function]

Available:



During playback of a DVD VIDEO disc, you can move back the playback position 10 seconds from the current position.

During DVD VIDEO playback

Press ►.

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

Note that this function works only in the same title, though it works between chapters.

If you press ▶ within 10 seconds from the beginning of a title, playback starts from the beginning of the title.

NOTES

- . This function works only with DVD VIDEO discs.

Some DVD VIDEO disc may not accept this function because of disc contents.

To change the brightness of the display window

You can dim the brightness of the display window.

Press ▲ or ▼ while holding down ANGLE.

You can select the brightness of the display window from among three levels. Each time you press the button, the brightness changes among low, middle, high, and off.

Advanced operations

This chapter describes operations for various advanced functions of DVD AUDIO, DVD VIDEO, SVCD, Video CD and Audio CD discs. For MP3 and JPEG disc playback, see the separate chapters on and after pages 47 and 51.





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

Playing from a specific position on a disc

You can play a disc from the selected track, title, group or chapter, or from the specified time.

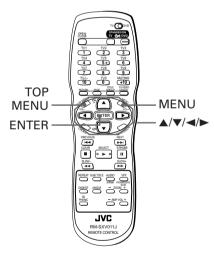
To locate a desired scene from the DVD menu

Available : AUDO





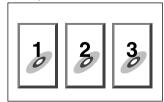
DVD AUDIO/DVD VIDEO discs generally have their own menus which show the disc contents. These menus contain various items such as titles of movies, names of songs, or artist information, and display them on the TV screen. You can locate a desired scene by using the DVD



- Whenever a DVD AUDIO/DVD VIDEO disc is loaded
 - 1 Press TOP MENU or MENU.

The menu appears on the TV screen.

Example:





About DVD menu

Normally, a DVD AUDIO disc which contains more than one group may have a "top" menu which lists the groups. Similarly, a DVD VIDEO disc which contains more than one title may have a "title" menu which lists the titles. In such a case, the menu appears on the TV screen by pressing the TOP MENU button. Some DVD AUDIO/DVD VIDEO discs may also have a different menu which appears by pressing the MENU

See the instructions of each DVD AUDIO/DVD VIDEO disc for its particular menu.

2 Use **△**/**▼**/**⋖**/**▶** to select a desired item, then press ENTER.

The unit starts playback of the selected item.



With some discs, you can also select items by entering the corresponding number using the numeric buttons, which may cause the unit to automatically start playback.

MENU or MENU in step 1:

The disc does not have an appropriate menu listing the titles or groups.

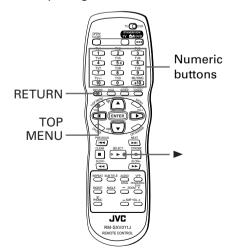
The MENU button does not work while stopped.

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





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



• When an SVCD/Video CD disc with PBC is stopped

To locate a desired position in the current title, group or track [Time searchl

Available: AUDIO VIDEO VCD CD



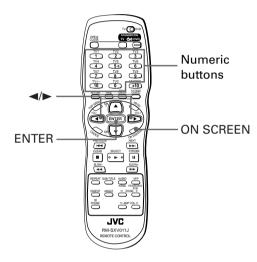






You can play a disc from the desired position by specifying the elapsed time from the beginning of the current group (for DVD AUDIO), the current title (for DVD VIDEO) or the disc (for SVCD/Video CD/Audio CD) using the time search function.

Note that some DVD VIDEO discs do not contain time information, and the time search function cannot be used.



• For DVD AUDIO/DVD VIDEO/Audio CD:

During playback or while stopped

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. (See page 42 for details about the menu bar.)

2 Use $\blacktriangleleft / \triangleright$ to move \triangleright to $\bigcirc \rightarrow \mid$, then press ENTER.

The pull-down menu for entering time appears under the ⊕.

(Screen example for DVD VIDEO)



(Screen example for Audio CD)



3 Use the numeric buttons (0 to 10) to enter the desired time.

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



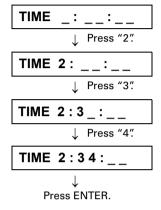
- "10" button works as "0" and "+10" button is not used with this function.
- You can specify the time in hour/minute/second format for DVD AUDIO/DVD VIDEO discs, and in minute/second format for SVCD/Video CD and Audio CD discs.

4 Press ENTER.

The unit starts playback from the specified time.

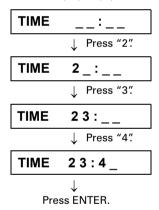
• Example (for DVD AUDIO/DVD VIDEO)

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



Example (for SVCD/Video CD/Audio CD)

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

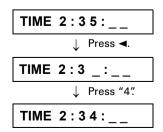


You do not have to press "0" to enter the trailing zeros (for the last two digits in the example above).

· When you correct a mistake

entered a undesired numeral (the leftmost "-" digit), and reenter the correct time.

(Example for changing "2:35:__" to "2:34:__.")





To select a still picture on a DVD AUDIO disc [PAGE]

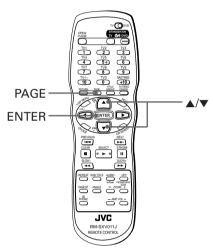
Available : AUDIO



Most DVD AUDIO discs include still pictures, which usually appear in turn automatically during playback according to the playback sequence. However, there are other page(s) of the current still picture and you can change the picture (turn the page) manually.

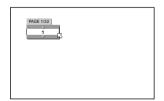


At the beginning of a part where there are selectable pictures, "PAGE" appears on the TV screen (except when the "ON SCREEN GUIDE" preference is set to "OFF"). See page 63 for details about "ON SCREEN GUIDE" preferences.



- During playback (except when the status bar is shown)
 - 1 Press PAGE.

The Page selection window appears on the TV screen.



2 Use PAGE or **▲**/▼ to select the desired page. Each time you press PAGE or ▲/▼, the page number changes.

3 Press ENTER.

The selected page (picture) is shown. The Page selection window is dismissed.

NOTE

- The Page selection window will automatically disappear if you do not change the page for several seconds.
- You can also select the page via the menu bar. See page 44.

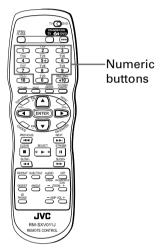
To play back a bonus group of a DVD **AUDIO** disc



Some DVD AUDIO discs contain a special group called "bonus group" whose contents are not opened to the public. The bonus group is always assigned to the last group of a disc (for example, if a disc contains four groups including a bonus group, "group 4" is the bonus group).

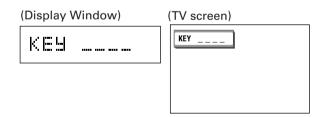
To play back a bonus group, you have to enter the specific "key number" (a kind of password) for the bonus group. A way of getting the key number depends on discs.

After getting the key number, you can play back the bonus group by the following procedure.



- While a disc containing a bonus group is stopped
 - **1** Use the numeric buttons to select the bonus group number (the last group).

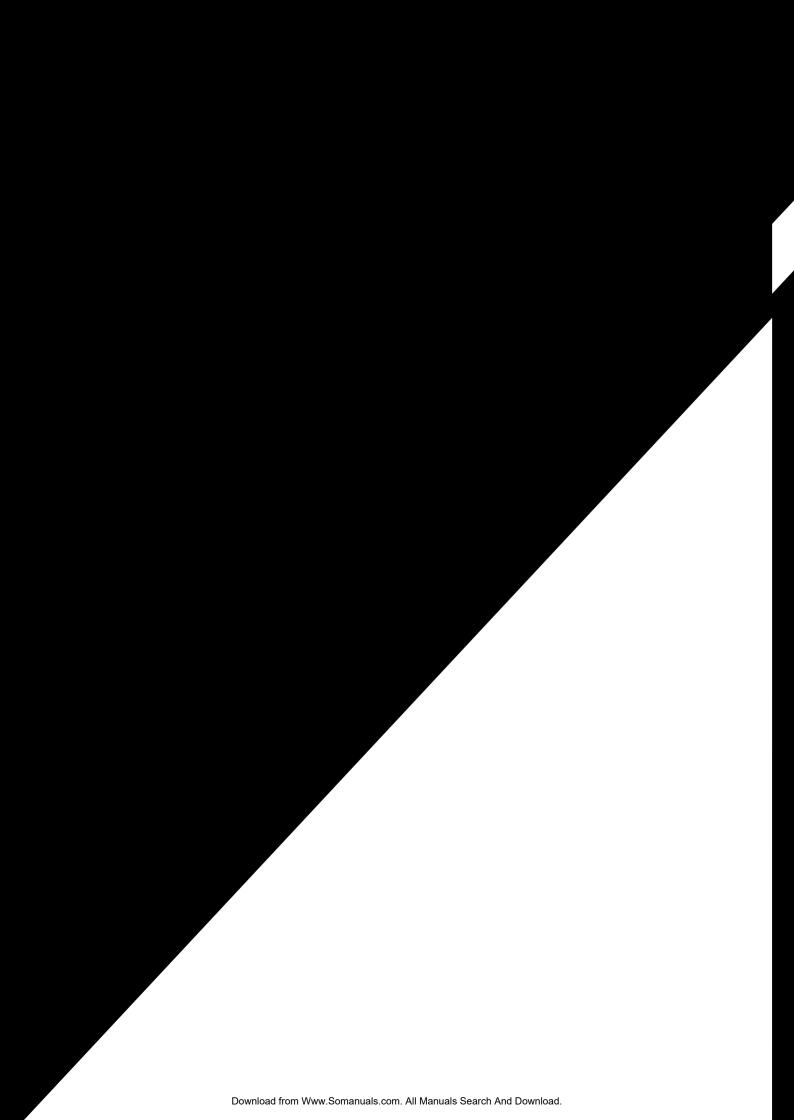
The display window and on-screen display prompt you to enter the key number as shown below.



2 Use the numeric buttons (0 to 9) to enter the kev number.

If you enter the key number correctly, the unit starts playback of the bonus group.

If you enter a wrong key number, the unit does not start playback and the display window and TV screen again prompt you to reenter the key number.



4 a (for DVD AUDIO)

Specify selections in the desired order by group and track numbers using the numeric buttons.

- For each program step, using the numeric buttons, specify a group first, then specify a track.
- For example, to specify "track 14 in group 2," Press 2 → +10 → 4.

4 b (for SVCD/Video CD/Audio CD)

Specify tracks in the desired order using the numeric buttons.

- To select a number between 1 and 10:
 Press the corresponding button for the number.
- To select a number higher than 10: Use the +10 button.

Examples:

To select 13: $+10 \rightarrow 3$

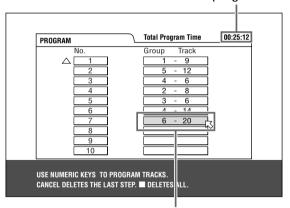
To select 34: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 4$ To select 40: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 10$

Up to 99 tracks can be programmed. You may select the same track more than once.

The total program time is shown at the right top of the program table.

(Program table example for DVD AUDIO)

The total program time



Selected group/track number

If you specify a wrong track

Use ▲/▼ to move 尽 to the wrong track, then press TV/VIDEO - CANCEL. The track is erased and the subsequent programmed tracks move up.

• To clear the program while programming Press ■.

5 Press ► to start program playback.

With a DVD AUDIO/SVCD/Video CD disc, the program table is automatically dismissed when the program playback starts.

With an Audio CD disc, the program table remains on the TV screen during program playback.

However, pressing the ON SCREEN button 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.

• 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 DVD AUDIO/SVCD/Video CD playback, you cannot see the program table during playback.

• To quit program playback

Press ■. Note that the program remains.

• To clear the program

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

All the programmed tracks are erased.

• To exit the program mode

After clearing all programmed tracks, press ON SCREEN.

The program table is dismissed and the status bar appears on the TV screen.

The PROGRAM indicator in the display window disappears and the unit quits program playback mode.

NOTES

- During program playback, you cannot edit the program contents.
- During program playback, pressing ►► skip to the next selection of the program. Pressing ◄◄ returns to the beginning of the current selection.
- If you are going to program a track in the bonus group of a DVD AUDIO, the unit will ask you to enter the key number for the bonus group (see page 30).
- To dismiss the program table:

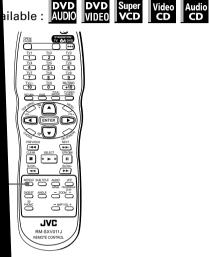
Press ON SCREEN. The program table is dismissed and the status bar is shown.

To dismiss the menu bar (and the status bar):
 Press ON SCREEN.

ayback

back of the current group or track (for nt title or chapter (for DVD VIDEO) or (for SVCD/Video CD/Audio CD). playback of a desired part.

current selection or all it playback]



D VIDEO:

During playback or while stopped (Audio CD:

In any condition except SVCD/ Video CD playback with PBC

ess REPEAT, the repeat mode All repeat, Repeat 1 and off. selected mode by icons in the on the front panel as below. AT while stopped, you need to speat playback.

he current group for DVD AUDIO, nt title for DVD VIDEO, or all SVCD/Video CD/Audio CD. ne current track for DVD (CD/Video CD/Audio CD or the apter for DVD VIDEO.

t mode is off.



Repeat mode indicators

a window for repeat mode . You can check the current the window.

n on the window is the same as u bar (see pages 43, 44 and 45).

eat mode indication window.)

To stop repeat playback

Press ■.

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

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

To quit repeat playback

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

NOTES

- You can also select the repeat mode via the menu bar.
 See pages 43, 44 and 45.
- When the program playback mode is active with a DVD AUDIO, SVCD, Video CD or Audio CD, the repeat mode changes in the same manner.

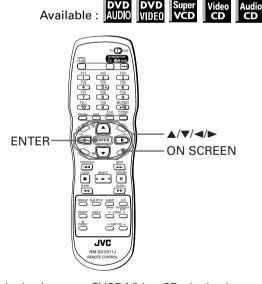
Note that, however, in the "" mode the unit repeats all the programmed tracks, instead of all tracks on the disc.

- During playback in the title/chapter/group/track repeat mode, if you skip the title/chapter/group/track using |◄◄/▶▶|, etc., the destination title/chapter/group/track is repeated.
- If \(\sigma\) appears when pressing REPEAT during DVD VIDEO playback

You cannot repeat the title or chapter because of the disc contents.

 Repeat playback function cannot be used during SVCD/ Video CD playback with PBC function.

To repeat a desired part [A-B repeat playback]



- During playback except SVCD/Video CD playback with PBC
 - **1** Press ON SCREEN twice.

The menu bar appears on the TV screen. (See page 42 for details about the menu bar.)

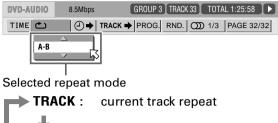
2 Use **◄/►** to move □ to **□**, then press ENTER.

The pull-down menu for repeat mode selection appears under the <u></u>

3 Use **△**/**▼** to select "A-B."

Depending on the disc type and unit's status the repeat mode changes as follows:

• During DVD AUDIO playback



GROUP: current group repeat

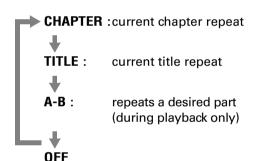
A-B: repeats a desired part (during playback only)

OFF

During DVD VIDEO playback

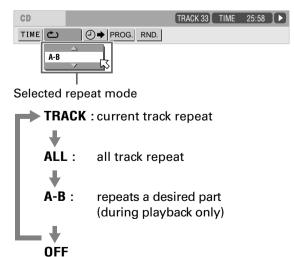


Selected repeat mode



• During SVCD/Video CD/Audio CD playback

(Screen example for Audio CD)



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

The pull-down menu turns off.

The repeat icon shows 🖒 🗚 .

(Screen example for DVD VIDEO)



Repeat icon

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."

To quit A-B repeat playback

Press ENTER. The A-B repeat mode turns off, while the playback continues.



- Selecting "OFF" from the pull-down menu for repeat mode selection, or pressing I◄◄/▶►I quits the A-B repeat mode and continues playback.
- You can also stop and quit the A-B repeat mode by pressing

NOTES

- . The A and B points must be set in the same title/ chapter/group/track.
- . To dismiss the menu bar:

Press ON SCREEN.

playback

You cannot repeat the selected portion because of the disc contents.

Changing the language, sound and scene angle

With some DVD AUDIO/DVD VIDEO discs, you can choose a desired subtitle language and/or audio language/sound, as well as a desired camera angle. Some DVD AUDIO discs support more than one audio language/sound, with some DVD VIDEO discs support more than one subtitle language and/or audio language/ sound

Similarly, you can choose a desired audio channel (or channel combination) of an SVCD/Video CD disc, as well as a subtitle channel of an SVCD disc.

To select the subtitle language **ISUB TITLE**



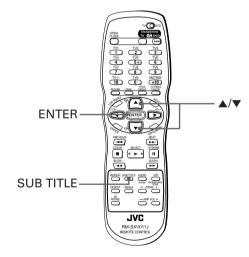




Some DVD AUDIO, DVD VIDEO and SVCD discs for movies, guides, etc. contain more than one subtitle language. You can choose a desired one from them.

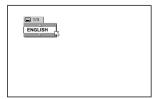


• At the beginning of the part where the subtitle(s) is(are) recorded, ___ appears on the TV screen (except when the "ON SCREEN GUIDE" preference is set to "OFF"). See page 63 for details about "ON SCREEN GUIDE" preference.



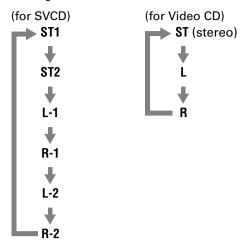
- During DVD AUDIO/DVD VIDEO/SVCD playback (except when the status bar is shown)
 - Press SUB TITLE.

The Subtitle selection window appears on the TV



For SVCD/Video CD

Each time you press AUDIO-fs/Rate or ▲/▼, the playback audio changes as follows.



3 Press ENTER.

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

NOTES

- . For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Table of languages and their abbreviations" on page 58.
- . The Audio selection window will automatically disappear if you do not change the audio for several seconds.
- DVD VIDEO disc):

You cannot select the audio.

- If only one audio sound is recorded, you cannot select the audio.
- · You can also select the audio via the menu bar. See pages 44, 45 and 46.

To select a scene angle of DVD VIDEO [ANGLE]

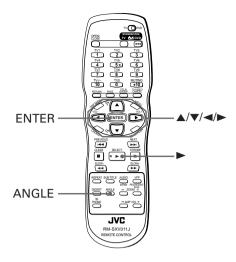
Available : DVD



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.



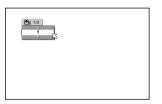
At the beginning of a "multi-angle" part, omega appears on the TV screen (except when the "ON SCREEN GUIDE" preference is set to "OFF"). See page 63 for details about "ON SCREEN GUIDE" preference.



From Angle selection window

- During DVD VIDEO playback (except when the status bar is shown)
 - 1 Press ANGLE.

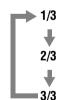
The Angle selection window appears on the TV screen.



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

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

Example:



3 Press FNTFR.

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

on the TV ء

a preset.

suitable to the current conditions.

, preset

3



3 To define a user setting, select a parameter to be edited using **△**/**▼** from the followings.

GAMMA

Controls the brightness of a shaded portion without changing the brightness of the entire picture.

This control is optimum when you adjust the pictures of software which generates subdued black in a bright room.

The setting range is +4 to -4.

BRIGHTNESS

Controls the brightness of the screen. The setting range is +16 to -16.

CONTRAST

Controls the contrast of the screen. The setting range is +16 to -16.

SATURATION

Controls the color depth of the screen. The setting range is +16 to -16.

TINT

Controls the tint of the screen.

Use the appearance of a natural complexion as the guideline.

The setting range is +16 to -16.

• SHARPNESS

Controls the sharpness of the screen. The setting range is +3 to 0.

Y DFI AY

Controls the color gap of the screen. The setting range is +2 to -2.

4 Press ENTER.

A window for setting parameters appears instead of the VFP mode selection window.



Selected parameter

5 Use **▲**/**▼** to adjust the level of the parameter. The higher value enhances the effect.

6 Press ENTER.

The parameter is set and the VFP mode selection window appears again.

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

NOTES

- The number of setting steps depends on parameters.
- To dismiss the VFP mode selection window:

Press VFP - PROGRESSIVE SCAN.

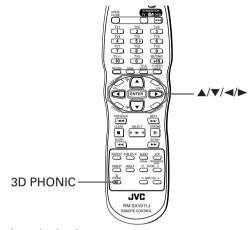
- The window for VFP mode selection and parameter setting disappears if no operation is made for about 10 seconds.
- The VFP function cannot be used during JPEG playback.

To simulate surround sound [3D PHONIC]

Available:



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

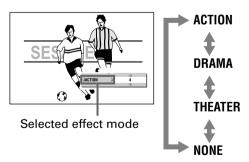


- During playback
 - 1 Press 3D PHONIC.

The 3D PHONIC window appears on the TV screen.

2 Use **◄/►** to select the desired mode.

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



ACTION

Suitable for action movies and sports programs in which sounds dynamically move.

DRAMA

Natural and warm sound. You can enjoy movies in a relaxed mood.

• THEATER

You can enjoy sound effects like in a major theater in Hollywood.

NOTES

- To dismiss the 3D PHONIC with Press 3D PHONIC.
- The 3D PHONIC window disappearmade for about 10 seconds.
- The 3D PHONIC function works correct playing back a DVD VIDEO disc recorded Digital. With other sources, you cannot ge you press the 3D PHONIC button.
- When playing back a DVD VIDEO disc recorded Dolby Digital that does not contain the rear signal cannot get a correct 3D PHONIC sound though you change the 3D PHONIC setting.
- The 3D PHONIC function does not affect the Dolby Digital bitstream signal from the DIGITAL OUT jacks.
- When you set the 3D PHONIC function is active, the "ANALOG OUT" and "D. RANGE COMPRESSION" settings in the "AUDIO" preference display are disabled.

tho:

(Examp



* The meanings of the

group*

on the display window L•R: Front speakers SR: Rear speakers C: Center speaker

SR•C: Rear and center speaker

The sampling frequencies indicated 44.1, 48, 88.2, 96, 176.4, and 192 (kHz). figure below the first decimal place is or the display window.

NOTE

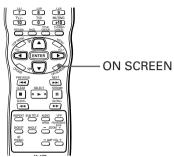
 With some discs, "NO INFO." may appear instead of the sampling frequency and bit rate.

Menu bar functions

This section describes the functions you can perform via the menu bar.

The available menu bar functions differ depending on the disc type.

To bring up the menu bar



- When a disc is inserted
 - 1 Press ON SCREEN.

The status bar, according to the disc type, appears on the TV screen.

See page 24 about the status bar.

(Example of the status bar for DVD VIDEO)



2 Press ON SCREEN again.

The appropriate menu bar, according to the disc type, appears together with the status bar. The menu bar includes some icons which indicate the associated functions.

(for DVD AUDIO)



(for DVD VIDEO)



(for SVCD)



(for Video CD)



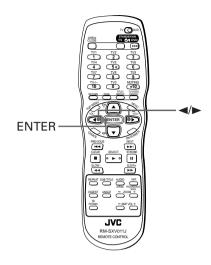
(for Audio CD)



NOTE

To dismiss the menu bar (and status bar):
 Press ON SCREEN.

Basic operation procedure



1 Use
✓/➤ to select the icon you want to work with.

The selected icon is pointed by \square .

2 Press ENTER.

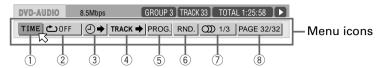
With many icons, an appropriate pull-down window appears, however, there are some exceptions.

- See the following pages for details about each function.
- Note that some functions are not available during playback. (You cannot move to the associated icon when it is not available.)

NOTES

- - You cannot use the selected function because of disc contents.
- A mark or text on the menu icon for the function or mode currently selected is shown in blue.

Menu bar functions for DVD AUDIO

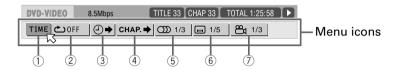


The following table shows the menu bar functions available for DVD AUDIO. Note that, in the description of the operation column, we assume the associated icon is selected.

Selected Icon	Operation	Note
TIME Time mode selection (During playback only) Selects the time mode shown in the display window on the front panel and in the status bar.	Press ENTER to select the time mode among the following. TIME → REM → TOTAL → T.REM → Return to initial • TIME: Current track elapsed time • REM: Current track remaining time • TOTAL: Current group elapsed time • T.REM: Current group remaining time	If the disc has only one group and one track, "TOTAL" and "TIME" show the same value.
Repeat mode (During playback only) Select the repeat mode.	 Press ENTER to open the pull-down window. Use ▲/▼ to select the repeat mode among the followings. TRACK ↔ GROUP ↔ A-B ↔ OFF • TRACK: Current title repeat • GROUP: Current group repeat • A-B: Repeats a desired part (A-B repeat) Press ENTER to make the selected repeat function active. (See pages 33 to 35 for details about repeat function.) 	 If you select "OFF" during repeat playback, the unit continues playback without repeating. For the subsequent operations for the A-B repeat, see page 34.
③ ④→ Time search Specifies the elapsed time from the beginning of the current group, from which the unit starts playback.	 Press ENTER to open the pull-down window. Use numeric buttons to enter a desired time. Press ENTER to play back from the specified time. (See page 28 for details about time search function.) 	
	 Press ENTER to open the pull-down window. Use numeric buttons to enter a desired track number. For example of entering "12", press "1" then "2". Press ENTER to play back from the specified track. When the track number is incorrect: Overwrite the incorrect number with the correct number. 	 The "10" and "+10" buttons are not used in this function. You can also locate a desired track directly by specifying the track number using the numeric buttons during playback. See page 23.
⑤ PROG. Program (While stopped only) Specifies the playback order of tracks.	 Press ENTER to bring up the program table. Specify tracks in the desired order using the numeric buttons. Press ➤ to start program playback. (See page 31 for details about program playback.) 	
RND. Random (While stopped only) Activates random playback.	Press ENTER to activate random playback. (See page 33 for details about random playback.)	

Selected Icon	Operation	Note		
Audio selection (During playback only) Selects the audio language or sound.	 Press ENTER to open the pull-down window. Use ▲/▼ to select a desired audio language or sound. Example: 1/3 ENGLISH ↔ 2/3 FRENCH ↔ 3/3 SPANISH Press ENTER to play back with the selected audio. (See page 36 for details about audio selection.) 			
PAGE Page selection (During playback only) Selects the page.	 Press ENTER to open the pull-down window. Use ▲/▼ to select a desired page number. Press ENTER to play back with the selected page. (See page 30 for details about page selection.) 			

Menu bar functions for DVD VIDEO

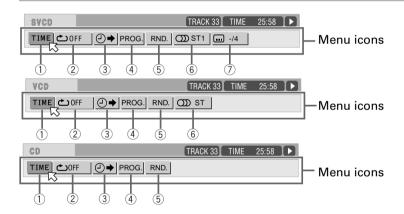


The following table shows the menu bar functions available for DVD VIDEO. Note that, in the description of the operation column, we assume the associated icon is selected.

Selected Icon	Operation	Note
1 TIME Time mode selection (During playback only) Selects the time mode shown in the display window on the front panel and in the status bar.	Press ENTER to select the time mode among the followings. TOTAL → T.REM → TIME → REM → Return to initial • TOTAL: Current title elapsed time • T.REM: Current title remaining time • TIME: Current chapter elapsed time • REM: Current chapter remaining time	If the disc has only one title and one chapter, "TOTAL" and "TIME" show the same value.
Repeat mode (During playback only) Select the repeat mode.	 Press ENTER to open the pull-down window. Use ▲/▼ to select the repeat mode among the following. CHAPTER ↔ TITLE ↔ A-B ↔ OFF CHAPTER:Current chapter repeat TITLE: Current title repeat A-B: Repeats a desired part (A-B repeat) Press ENTER to make the selected repeat function active. (See pages 33 to 35 for details about repeat function.) 	 If you select "OFF" during repeat playback, the unit continues playback without repeating. For the subsequent operations for the A-B repeat, see page 34.
③ ④→ Time search Specifies the elapsed time from the beginning of the current title, from which the unit starts playback.	 Press ENTER to open the pull-down window. Use numeric buttons to enter a desired time. Press ENTER to play back from the specified time. (See page 28 for details about time search function.) 	
④ CHAP. ⇒ Chapter search (During playback only) Specifies a desired chapter to be played back from.	 Press ENTER to open the pull-down window. Use numeric buttons to enter a desired chapter number. For example of entering "12", press "1" then "2". Press ENTER to play back from the specified chapter. When the chapter number is incorrect: Overwrite the incorrect number with the correct number. 	 The "10" and "+10" buttons are not used in this function. You can also locate a desired chapter directly by specifying the chapter number using the numeric buttons during playback. See page 23.

Selected Icon	Operation	Note
(5) Audio selection (During playback only) Selects the audio language or sound.	 Press ENTER to open the pull-down window. Use ▲/▼ to select a desired audio language or sound. Example: 1/3 ENGLISH ↔ 2/3 FRENCH ↔ 3/3 SPANISH Press ENTER to play back with the selected audio. (See page 36 for details about audio selection.) 	For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Table of languages and their abbreviations" on page 58.
6 Subtitle selection (During playback only) Selects the subtitle language.	 Press ENTER to open the pull-down window. Use ▲/▼ to select a desired subtitle language. Example: 1/3 ENGLISH ↔ 2/3 FRENCH ↔ 3/3 SPANISH ↔ -/3 OFF Press ENTER to play back with the selected subtitle. (See page 35 for details about subtitle selection.) 	
Angle selection (during playback only) Selects a desired scene angle in the multi-angle part.	 Press ENTER to open the pull-down window. Use ▲/▼ to select a scene angle. Example: 1/3 ↔ 2/3 ↔ 3/3 Press ENTER to play back with the selected scene angle. (See page 37 for details about angle selection.) 	

Menu bar functions for SVCD/Video CD/Audio CD



The following table shows the menu bar functions available for SVCD/Video CD/ Audio CD.

Note that, in the description of the operation column, we assume the associated icon is selected.

Selected Icon	Operation	Note
TIME Time mode selection Selects the time mode shown in the display window on the front panel and in the status bar.	Press ENTER to select the time mode among the followings. TIME → REM → TOTAL → T.REM → Return to initial • TIME: Current track elapsed time • REM: Current track remaining time • TOTAL: Disc elapsed time • T.REM: Disc remaining time	 When you select "REM" while stopped, you can change the track by pressing ◄◄ or ▶► . During stopped, "REM" shows the recording time of the current track, while "T.REM" shows the total time of the disc.
② CONTROLL Repeat mode Select the repeat mode.	 Press ENTER to open the pull-down window. Use ▲/▼ to select the repeat mode among the followings. OFF ↔ TRACK ↔ ALL ↔ A-B ↔ OFF TRACK: Current track repeat ALL: All track repeat A-B: Repeats a desired part (A-B repeat) Press ENTER to make the selected repeat function active. (See pages 33 to 35 for details about the Repeat function.) 	 If you select "OFF" during repeat playback, the unit continues playback without repeating. For the subsequent operations for the A-B repeat, see page 34.

Selected Icon	Operation	Note
3	 Press ENTER to open the pull-down window. Use numeric buttons to enter a desired time. Press ENTER to play back from the specified time. (See page 28 for details.) 	This function cannot be used during program playback.
PROG. Program (While stopped only) Specifies the playback order of tracks.	 Press ENTER to bring up the program table. Specify tracks in the desired order using the numeric buttons. Press ► to start program playback. (See page 31 for details.) 	
⑤ RND. Random (While stopped only) Activates random playback.	Press ENTER to activate random playback. (See page 33 for details.)	
6 CD Audio selection (During SVCD/Video CD playback only) Selects the audio channel(s).	 Press ENTER to open the pull-down window. Use ▲/▼ to select a desired audio channel(s). Press ENTER to play back with the selected audio channel(s). (See page 36 for details about audio selection.) 	
Subtitle selection (During SVCD playback only) Selects the subtitle.	 Press ENTER to open the pull-down window. Use ▲/▼ to select a desired subtitle. Press ENTER to play back with the selected subtitle. (See page 35 for details about subtitle selection.) 	

MP3 disc playback

The unit can play back MP3 files on a private CD-R/RW disc or commercial CD. We refer to a disc that contains MP3 file as an "MP3 disc" in this manual.

Though available functions with MP3 discs are limited, operations for the available functions are similar to those with Audio CD discs.

Note that, if a disc contains both of MP3 and JPEG files, you can only play back files of either type selected by the MP3/JPEG setting in the PICTURE preference display (see page 60).

What is MP3?

"MP3" stands for "MPEG Audio Layer-3," and is the part of the MPEG standard. It can store high quality stereo audio using very little space by only saving the audible sounds and discarding the sounds your ears won't pick up. A CD can store up to around 10 hours of MP3 audio, which is 10 times as much as Audio CD.

NOTE



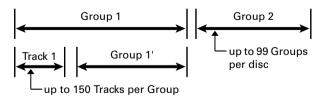
Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the $\triangle/\nabla/\blacktriangleleft/\triangleright$ and numeric buttons for controlling the unit.

About MP3 disc

On an MP3 disc, each material (song) is recorded on a file. Files are sometimes grouped into a folder by artist, album, category, etc. In addition, a folder can be a member of another folder, creating hierarchical folder layers. If you are familiar with a personal computer, you may easily understand the hierarchical file/folder construction of MP3 discs.

This unit simplifies the hierarchical construction of a disc and manages files and folders by "Tracks" and "Groups" in the following manners.

- Each file is regarded as a Track.
- A folder which has one or more files (Tracks) is regarded as a Group.
- A folders' folder which does not manage any file directly 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. It ignores those exceeding the maximum numbers and cannot play back them. If there is any type of files other than MP3 files in a folder. Those files are also counted down from the total number of 150.



NOTES for making a private MP3 disc using a CD-R/CD-RW disc:

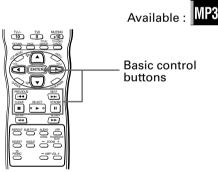
- Select "ISO 9660" as the disc format.
- Finalize the disc after completing recording.
- We recommend to record a material at 44.1-kHz Fs and at the 128-kbps data transfer rate.

NOTES

- Some discs may not be played back because of the disc characteristics or recording condition.
- Some tracks on an MP3 disc are skipped and may not be played back normally because of the disc configuration or characteristics determined by the writing (encoding) software and hardware used for recording. Such symptoms may occur regardless of whether using a disc you recorded or using a commercially available disc.
- The unit does not support "packet writing" discs.
- . The unit does not support the ID3 tag.
- If the disc is recorded with multiple sessions, the unit supports up to five sessions.
- You cannot play back Tracks in the desired (programmed) or random order.
- The unit only can play back Tracks with any of the following file extensions; "MP3", "Mp3", "mp3" and "mP3"
- Time required for reading the disc contents differs with discs, depending on the numbers of Groups (folders) and Tracks (files) recorded, etc.
- While an MP3 disc is loaded, you cannot bring up any preference display (see pages 56 and 57).

Operations

Basic operations



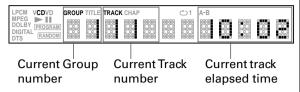
The following table shows basic functions of basic control buttons.

Buttons	Functions
ENTER	Starts playback while stopped.
>	Starts playback while stopped or paused.
	Stops playback.
II	Pauses playback.
	Skips back or forward a Track in the Group* during playback. Selects the previous or next Track in the Group* while stopped.

- *You can skip a Track across a Group.
- If you press ► during playback, or press to stop playback followed by ►, the unit starts playback from the beginning of the current track.
- The ◄/► buttons work the same as the I◄◄/►►I buttons.

NOTES

. The current Group and Track numbers are shown on the display window in the following manner.



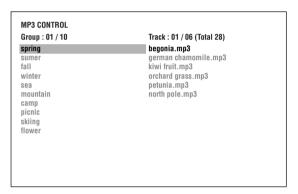
- · You cannot advance or reverse playback of an MP3 disc
- You cannot see any other time information but the current track elapsed time.

Selecting the desired Group and Track

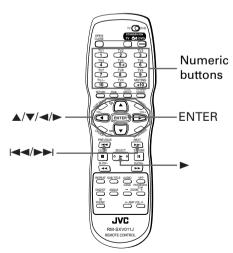
Available : MP3



When loading 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 by the following procedure.



- When the MP3 CONTROL display is shown.
 - **1** Make sure that the black (cursor) bar is in the left (Group) column.

left column.

2 Use **△**/▼ to move the bar to a desired Group.

On the right column, Tracks in the selected Group are shown.

When selecting a Group, Track 1 is initially selected (highlighted).

3 Use | **◄ ◄ > >** I to select a desired Track, then press ENTER or ▶.

٥r

Use the numeric buttons to directly specify a desired Track number.

- To select a number between 1 and 10: Press the corresponding button for the number.
- To select a number higher than 10: Use the +10 button.

Examples:

To select 13: $+10 \rightarrow 3$

To select 34: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 4$ To select 40: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 10$

The unit starts playback from the selected Track. In the MP3 CONTROL display and the display window on the front panel, you can see the current Group and Track numbers, as well as Track elapsed time.

Current Track elapsed time MP3 CONTROL Time: 00:03:08 Track : 01 / 06 (Total 28) Group: 01 / 10 spring begonia.mp3 german chamo kiwi fruit.mp3 fall orchard grass.mp3 petunia.mp3 winter sea mountain orth pole.mp3 picnio . skiing flower Group Track column of the Selected column current Group Track



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

NOTES

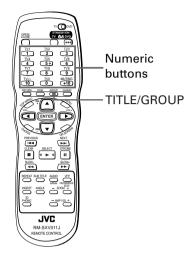
- . Up to 32 characters are displayed as a group or track name on the MP3 CONTROL display.
- If an MP3 file name includes any 2-byte character, the unit may not show the file name correctly.
- Only MP3 files are shown on the MP3 CONTROL display.
- The order of Groups/Tracks shown in the MP3 CONTROL display may differ from the order shown on your personal computer when you set the disc on your computer.

Direct selection

Available:



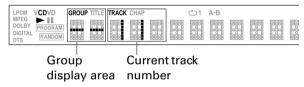
You can select a desired Group directly by specifying the Group number.



- During playback or while stopped
 - 1 Press TITLE/GROUP.

"--" is shown in the Group display area of the display window.

(Example for the indication of window)



- **2** Use the numeric buttons to specify a desired Group number.
 - To select a number between 1 and 10:
 Press the corresponding button for the number.
 - To select a number higher than 10: Use the +10 button.

Examples:

To select 13: $+10 \rightarrow 3$

To select 34: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 4$ To select 40: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 10$

Specify the Group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows "--" for the Group number, instead of the current Group number).

The unit starts playback from Track 1 of the selected Group.

3 Use the numeric buttons to specify a desired Track number.

The unit starts playback from the specified Track. You can also use $| \blacktriangleleft \triangleleft / \triangleright \triangleright |$ or $\triangle / \triangledown$ for specifying a track, instead of the numeric buttons.

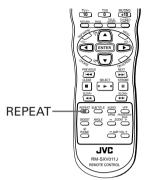
Repeat playback

Available :



English

You can repeat playback of the current Track, current Group or all MP3 files on the disc.

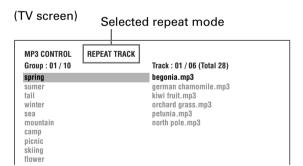


- During playback or while stopped
 - 1 Press REPEAT.

Each time you press REPEAT, the repeat mode changes as follows. You can see the current mode via the display window as well as the MP3 CONTROL display.

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

MP3 CONTROL display	Display Window	Function
REPEAT TRACK	亡 1	Repeats the current Track.
REPEAT GROUP	G	Repeats all Tracks in the current Group.
REPEAT ALL	ð	Repeats all Tracks on the disc.
No indication	The repeat mode is off.	



(Display window)



Repeat mode indicator

• To stop repeat playback

Press ■. Note that the repeat mode remains.

• To quit repeat playback

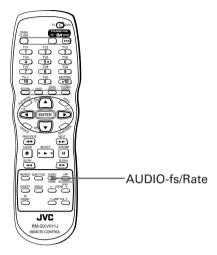
During playback, press REPEAT as many times until no repeat icon is shown on the display window. While stopped, press REPEAT as many times until repeat mode indication on the MP3 CONTROL display goes off.

Checking the sampling frequency and bit rate

Available : MP3



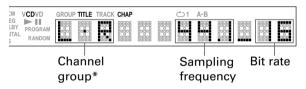
You can check the sampling frequency and bit rate of digital audio during playback.



- During playback
 - 1 Press and hold down AUDIO-fs/Rate for a few seconds.

The sampling frequency and bit rate of the current digital audio are shown in the display window temporarily.

(Example)



* The meaning of the channel group indication on the display window is as follows.

L•R: Front speakers

Note that any figure below the first decimal place is omitted in the display window.

NOTE

• With some discs, "NO INFO." may appear instead of the sampling frequency and bit rate.

JPEG disc playback

The unit can play back JPEG files on a private 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 either type selected by the MP3/JPEG setting in the PICTURE preference display (See page 60).

What is JPEG?

"JPEG" is an abbreviation for the Joint Photographic Experts Group and is an image format that utilizes a compression technique.

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

- baseline JPEG: used for digital cameras, web, etc.
- · progressive JPEG: used for web
- lossless JPEG: an old type and rarely used now The unit supports only the baseline JPEG type, therefore, it cannot display pictures of the other types (progressive and lossless). If a JPEG disc contains JPEG files of non-baseline type, the unit recognizes those files as JPEG files, the JPEG CONTROL display and the display window shows the information of the contents (file name, file number, etc.), but you cannot show the still pictures of those files (the TV screen appears only in black and "NON PLAYABLE FILE" is shown in the display window).

NOTE

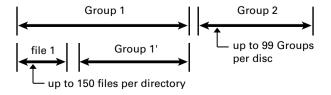


Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the $\triangle/\nabla/\blacktriangleleft/\triangleright$, numeric buttons for controlling the unit.

About JPEG disc

On a JPEG disc, each material (still picture) is recorded on a file. Files may be grouped into a folder by category, etc. In addition, a folder can be a member of another folder, creating hierarchical folder layers. If you are familiar with a personal computer, you may easily understand the hierarchical file/folder construction of JPEG discs. This unit simplifies the hierarchical construction of a disc and manages folders by "Groups" in the following manners.

- A folder which has one or more files is regarded as a Group
- A folders' folder which does not manage any file directly 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. It ignores those exceeding the maximum numbers and cannot play back them. If there is any type of files other than JPEG files in a folder. Those files are also counted down from the total number of 150.



NOTES for making a private JPEG disc using a CD-R/CD-RW disc:

- Select "ISO 9660" as the disc format.
- · Finalize the disc after completing recording.
- We recommend to record a material at "640 x 480" resolution.
- The unit supports only the baseline JPEG type, therefore, it cannot display pictures of the other types (progressive and lossless). If a JPEG disc contains JPEG files of non-baseline type, the unit recognizes those files as JPEG files. the JPEG CONTROL display and the display window shows the information of the contents (file name, file number, etc.), but you cannot show the still pictures of those files (the TV screen appears only in black).

NOTES

- The unit does not support "packet writing" discs.
- If the disc is recorded with multiple sessions, the unit supports up to five sessions.
- Some disc may not be played back, or take some time to open the whole picture because of the disc characteristics or recording condition.
- You cannot play back files in the desired (programmed) or random order.
- The screen saver function is activated while same picture is displayed for more than 5 minutes except during slide show playback (see page 53).
- The unit only can play back files with any of the following file extensions; ".jpg", ".jpeg", ".JPG", ".JPEG" and any uppercase and lowercase combination (such as ".Jpg").
- If a JPEG file name includes any 2-byte character, the unit may not show the file name correctly.
- When a picture resolution is more than "640 x 480", it takes some time to open the whole picture.
- Carry out an operation after opening the whole picture. The unit does not accept any operation (Stopping the unit, zooming in/out a picture etc.) while opening the picture.
- Time required for reading the disc contents differs with discs, depending on the numbers of Groups (folders) and files recorded, etc.
- If you play back a non-baseline JPEG file:
 The unit cannot display the still picture of the file. (the TV screen appears only in black.) In this case, other operations (such as stopping playback, selecting a file, etc.) are possible but may take a long time.
- While a JPEG disc is loaded, you cannot bring up any preference display (see pages 56 and 57).
- The available horizontal resolution of a JPEG file is up to 2,400 lines.

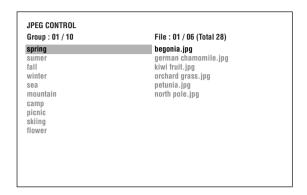
Basic operations

To see a desired picture

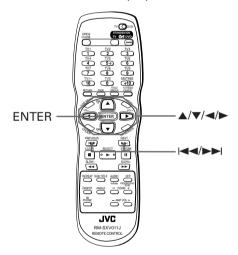
Available:

JPEG

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



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



- When the JPEG CONTROL display is shown
 - **1** Make sure that the black (cursor) bar is in the left (Group) column.

2 Use ▲/▼ to move the bar to a desired Group.

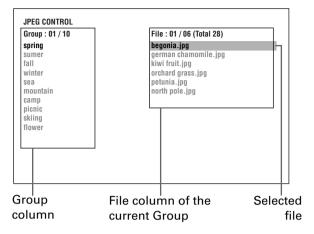
On the right column, files in the selected Group are shown.

When selecting a Group, file 1 is initially selected (highlighted).

3 Use | ◀ ◀ / ▶ ▶ I to select a desired file.

4 Press ENTER.

The selected file (still picture) is shown on the TV. In the display window, you can see the current Group and file numbers.



Hints

- You can also select a desired file by pressing ► to move the black bar to the right (file) column then using ▲/▼.
- To return the black bar to the Group column, press ◀.
- To play back another picture:

Use I◄◄/▶▶I or ▲/▼ to select the desired picture. You can select a picture in another Group.

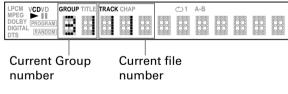
• To dismiss the picture:

Press ■ or MENU.

The TV screen returns to the JPEG CONTROL display.

NOTES

- Up to 32 characters are displayed as a group or file name on the JPEG CONTROL display.
- The current Group and file number are also shown on the display window in the following manner.

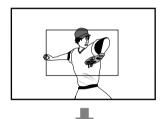


• Only JPEG files are shown on the display window.



- During JPEG picture is shown
 - **1** Press Z00M + or -.

The unit zooms in by pressing out by pressing ZOOM -. Each time you press ZOOM +, the doubled (up to x 1024). Each time you press ZOOM -, the magnalized (down to x 1/8).





At the top-left of the screen, the information for the current magnification appears. While zoomed in, the indication for the zoomed-in position, which can be moved by operating the next step, appears together.

2 Use $\triangle/\nabla/\triangle$ to move the zoomed position.



NOTES

- Even in the slide show mode, you can zoom in or out a picture while paused (see the next column).
- To return to normal screen: Press ENTER.
- While zoomed, the picture may look coarse.
- The zoom information on the screen will disappear if you do not operate the zoom function for five seconds.
- The zoom information appears again when you press ZOOM +/-, or ▲/▼/◄/►.

Aft

1 Pit

disc.

NOTES

 To stop slide she the middle of the

Press ■ or MENU.

The TV screen returns

Pressing ► resumes slide picture you opened.

. To keep showing a current p

Press II or ENTER.

The picture does not change to the

Pressing ► resumes the slide show next picture.

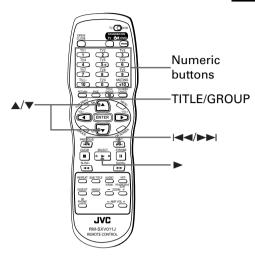
 If a black screen appears continuously in playback:

The file currently played may be non-baseline. In this case, select a playable file (a baseline JPL again (e.g., pressing ■ or MENU to open the JPEC CONTROL display, etc.)

Note that it may take a long time to select another file

Selecting the start point of the slide show

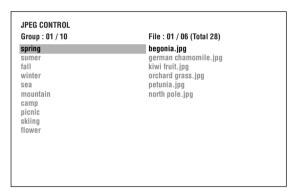




From the JPEG CONTROL display

- During JPEG CONTROL display is shown
 - 1 Make sure that the black (cursor) bar is in the left (Group) column.

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



2 Use ▲/▼ to move the bar to a desired Group.

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

When selecting a Group, file 1 is initially selected (highlighted).

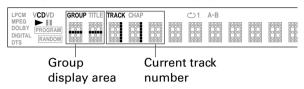
- 3 Use I to select a desired file.
- 4 Press ►.

The slide show starts from the specified file.

Direct selection

- During playback or while stopped
 - 1 Press TITLE/GROUP.
 - "--" is shown in the Group display area of the display window.

(Example for the indication of display window)



- **2** Use the numeric buttons to specify a desired Group number.
 - To select a number between 1 and 10:
 Press the corresponding button for the number.
 - To select a number higher than 10: Use the +10 button.

Examples:

To select 13: $+10 \rightarrow 3$

To select 34: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 4$ To select 40: $+10 \rightarrow +10 \rightarrow +10 \rightarrow 10$

Specify the Group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows "--" for the Group number, instead of the current Group number).

3 Use the numeric buttons to specify a desired Track number.

You can specify the Track number according to the order in the JPEG CONTROL display. You must specify a Track number within 5 seconds after carrying out step 2.

The unit starts slide show playback from the specified Track. If you do not specify a Track number, the unit starts slide show playback from the first Track in the Group.



- You can skip a file in the slide show by using I
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- You can select a file in the current group by using the numeric buttons.

NOTES

 To stop slide show playback (to dismiss the picture) in the middle of the slide show playback:

Press ■ or MENU.

The TV screen returns to the JPEG CONTROL display.

Pressing ► resumes slide show playback from the last picture you opened.

 To keep showing a current picture during the slide show Press II or ENTER.

The picture does not change to the next picture.

Pressing ► resumes the slide show playback from the next picture.

 If a black screen appears continuously in the slide show playback:

The file currently played may be non-baseline JPEG file. In this case, select a playable file (a baseline JPEG file) again (e.g., pressing ■ or MENU to open the JPEG CONTROL display, etc.).

Note that it may take a long time to select another file.

JPEG disc playback

layback

at the repeat mode remains.

ayback

press REPEAT as many times until shown on the display window. ress REPEAT as many times until cation on the JPEG CONTROL

Changing the initial settings

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.

Selecting preferences

This chapter refers to the settings which are already made when you purchase the unit. Read this section when you want to connect this machine to a wide-vision TV set or change the settings according to the environment you use this machine.

About the Preference display

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

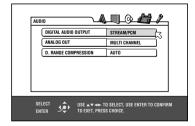
LANGUAGE



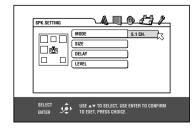
• PICTURE



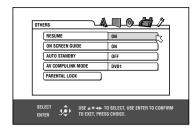
• AUDIO



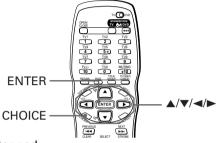
SPK.SETTING



OTHERS



How to set preferences



While stopped

1 Press CHOICE.

One of the Preference on-screen displays appears on the TV screen.

You can see five icons at the top right of the onscreen display for the settings.

: Setting menu for language

 \square : Setting menu for pictures

• Setting menu for sound

: Setting menu for speakers

: Setting menu for the systems, etc.

2 Use **◄/►** to select the appropriate icon.

The appropriate display appears on the TV screen.

3 Use ▲/▼ to move □ to the item you want to edit by

The color of the selected item changes.

4 Press ENTER.

The pull-down menu appears over the selected item.



Selected item

5 Use **△**/**▼** to select from options and press

The selected option is set.

• For details about each setting, see the following.

NQ

- Ic Pres
- While a up any p.
- When a pre screen, the up sometimes may picture size conti

LANGUAGE page



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MENU LANGUAGE

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

AUDIO LANGUAGE

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

SUBTITLE

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

ENGLIS ←→ CHINE ITALIAN ←

code from A

OFF ↔ ENGLISH ↔ SPANIS FRENCH ↔ CHINESE ↔ GER

← ITALIAN ← JAPANESE ← language code from AA to ZU

ON SCREEN LANGUAGE

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

ENGLISH ↔ SPANISH ↔ FRENCH

Sp

Frenc

- Some shown setting.
- You cannot language sho JPEG CONTRO

Table of languages and their abbreviations

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
ΑZ	Azerbaijani	GL	Galician	LN	Lingala	RM	Rhaeto-Romance	TI	Tigrinya
ВА	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
ВН	Bihari	HI	Hindi	MG	Malagasy	RW	Kinyarwanda	TO	Tonga
BI	Bislama	HR	Croatian	MI	Maori	SA	Sanskrit	TR	Turkish
BN	Bengali, Bangla	HU	Hungarian	MK	Macedonian	SD	Sindhi	TS	Tsonga
ВО	Tibetan	HY	Armenian	ML	Malayalam	SG	Sangho	TT	Tatar
BR	Breton	IA	Interlingua	MN	Mongolian	SH	Serbo-Croatian	TW	Twi
CA	Catalan	ΙE	Interlingue	MO	Moldavian	SI	Singhalese	UK	Ukrainian
СО	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		

PICTURE page

English



This page allows you to select desired options concerning with a picture or monitor screen.

SELECT SELECT USE A ** TO SELECT USE ENTER TO COMPRIM ENTER TO EXET, PRESS CHOICE.		
Menu items	Setting options	Notes/examples
MONITOR TYPE You can select the monitor type to match your TV when you playback DVD VIDEO discs recorded for wide screen televisions.	16:9 NORMAL (Wide Television screen) Should be selected 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 back a "4:3" DVD VIDEO source with the "16:9 NORMAL"
	16:9 AUTO (Wide Television screen) Should be selected when you connect a wide-screen (16:9) TV to the unit.	mode, the picture character slightly changes due to the process for converting the picture width.
	4:3 LB (Letter Box Conversion) Should be selected when you connect a normal (4:3) TV to the unit. When playing back a DVD VIDEO disc recorded by the wide picture format, the picture is shown with black bars at the top and bottom.	
	4:3 PS (Pan Scanning Conversion) Should be selected when you connect a normal (4:3) TV to the unit. When playing back a DVD VIDEO disc recorded by the wide picture format, the picture is automatically zoomed and the left and right sides are chopped off.	
PROGRESSIVE MODE When the unit is in the progressive scanning mode, you can select a desired mode from three options. Normally, set to "AUTO."	VIDEO Suitable for playing back a video source disc. FILM Suitable for playing back a film or	When progressive scanning mode is active, the PROGRESSIVE indicator is lit. Note that the color of indication changes depending on this setting, source type and the unit's status. (See pages 7 and 8.)
	 progressive source disc. AUTO Used to play back a disc containing 	Some DVD VIDEO discs may not be played back correctly with the "AUTO" mode. If the playback picture is upplied or point with a

picture is unclear or noisy with a

particular DVD VIDEO disc, try to

change the mode.

Used to play back a disc containing

The unit recognizes the picture type (film or video source) of the current

both video and film source

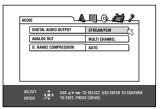
disc according to the disc

materials.

information.

Menu items	Setting options	Notes/examples	
SCREEN SAVER You can select the screen saver function ON or OFF.	ON The current picture gets dark.		
See page 18 for details about screen saver function.	OFF The screen saver function is off.		
MP3/JPEG The unit can play back MP3 and JPEG files recorded on a CD-R/CD- RW disc, however, if a disc contains	MP3 MP3 files can be played back if a disc contains both of MP3 and JPEG files.	 When a disc contains either MP3 or JPEG files, the unit can play back the files regardless of the setting. 	
both of MP3 and JPEG files, you can only play back files of either type selected by this menu item.	JPEG JPEG files can be played back if a disc contains both of MP3 and JPEG files.		

AUDIO page



This page allows you to select desired options concerning with audio sound.

Menu items	Setting options	Notes/examples
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 the table below for details about the relation between the setting and output signals.	PCM ONLY Should be selected when you connect the DIGITAL OUT jacks of the unit to the linear PCM digital input of other audio equipment.	 When playing a DVD VIDEO or Audio CD disc with DTS, use a DTS decoder to get correct signals from your speakers. With some DVD VIDEO discs that are not fully copy-protected, a 20 or 24
	DOLBY DIGITAL/PCM Should be selected 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 DTS or MPEG Multichannel format outputs a linear PCM digital signal.	bit digital signal may be output.
	STREAM/PCM Should be calcated when your	
	Should be selected 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.	

Digital output signal chart

Playback discs	Output			
	PCM ONLY	DOLBY DIGITAL/PCM	STREAM/PCM	
DVD with 48/44.1 kHz, 16/20/24 bit linear PCM	48/44.1 kHz,16 bit, stereo linear PCM			
DVD with 192/176.4/96/88.2 kHz, 16/22/24 bit linear PCM	No output			
DVD with DTS	48 kHz, 16 bit, stereo linear PCM DTS bitstrea		DTS bitstream	
DVD with Dolby Digital	48 kHz, 16 bit, stereo linear PCM	stereo linear PCM Dolby Digital bitstream		
Audio CD/Video CD/SVCD	44.1 kHz,16 bit, stereo linear PCM			
Audio CD with DTS	44.1 kHz, 16 bit, stereo linear PCM DTS bitstream			
CD-R/RW with MP3	Linear PCM			

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Menu items	Setting options	Notes/examples	
ANALOG OUT To play back a DVD VIDEO disc recorded with surround multichannel audio correctly, this setting must be properly made according to your audio system.	2-CH DOLBY SURROUND Should be selected when you enjoy multichannel surround audio by connecting the unit's AUDIO OUT jacks to a surround decoder. 2-CH STEREO	 This function does not work when the 3D PHONIC function is activated (see page 40). "2-CH DOLBY SURROUND" and "2-CH STEREO" settings affect only the output signal from the AUDIO 	
	Should be selected when you enjoy conventional 2-channel stereo audio by connecting the unit's AUDIO OUT jacks to a stereo amplifier/receiver or television set, or when you duplicate audio of a DVD VIDEO disc recorded with surround audio to your MD, cassette, etc.	OUT jacks when playing back a DVI VIDEO disc recorded with surround multichannel audio. Some DVD AUDIO discs prohibit th 2-channel down-mix. For such a disc you cannot get the down-mixed signal even if you set "ANALOG OUT" to "2-DOLBY SURROUND" o "2-CH STEREO."	
	MULTI CHANNEL When you enjoy multichannel surround audio by connecting the unit's 5.1-channel audio outputs to an amplifier equipped with 5.1-channel inputs.		
D. RANGE COMPRESSION When enjoying a DVD VIDEO disc recorded with the Dolby Digital format at low or middle volume, this setting makes you hear sound comfortably.	AUTO Audio is played back with the dynamic range compressed.	 This function works only when playing back a disc recorded with Dolby Digital. The setting is not effective for other discs. 	
	ON Audio is always played back with the dynamic range compressed.	 This function does not work when the 3D PHONIC function is activate (see page 40). 	



English

OTHERS page



This page allows you to select desired options concerning with the system.

BITER XX TO EXET, PRESS CHOICE.				
Menu items	Setting options	Notes/examples		
RESUME You can select the resume playback mode.	ON The unit can resume playback of the disc from the position you interrupted playback last time if it is still on the tray. OFF	See page 20 for details about resume playback function.		
	The resume function is not active.			
	DISC RESUME The unit can resume playback of last 30 discs (the unit keeps memory positions even if a disc is removed from the tray).			
ON SCREEN GUIDE The unit can display "on-screen guide" icons or characters on the	ON The on-screen guide will be displayed.	See page 18 about on-screen guide icons. Examples of "on person guide"		
picture, which show what is happening to the disc or the unit.	OFF The on-screen guide will not be displayed.	• Examples of "on-screen guide" icons or characters: Ω_1 , Ω ,		
AUTO STANDBY When the unit is stopped for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.	OFF ↔ 60 ↔ 30			
AV COMPULINK MODE If you use the AV COMPU LINK system, you must set this item correctly.	DVD 1↔ DVD 2 ↔ DVD 3	See page 71 for details about AV COMPU LINK function.		
PARENTAL LOCK When selecting this option, pressing ENTER on the remote control unit brings up the "PARENTAL LOCK" display shown right, in which you can restrict playback of DVD VIDEO discs for children.	See page 66 for details about the Parental Lock setting.	(PARENTAL LOCK display) PARENTAL LOCK COUNTRY CODE SET LEVEL PASSWORD EXT SELECT DITER REW PASSWORD? PRESS 0 - 9 KEY		



Changing the initial settings

1 Use ▲/▼ to move □ to [DELAY] and press FNTFR

See page 56 for details about how to bring up the "SPK.SETTING" page.



2 Use ▲/▼ to select the speaker to be set and press ENTER.

CENTER SPEAKER: Center speaker REAR SPEAKER: Rear speakers

3 Use ▲/▼ to select the delay time and press ENTER.

When you select "CENTER SPEAKER," you can select the delay time from "0.0m/0ft" to "1.5m/5ft" in 1ft units.

When you select "REAR SPEAKER," you can select the delay time from "0.0m/0ft" to "4.5m/15ft" in 1ft units.

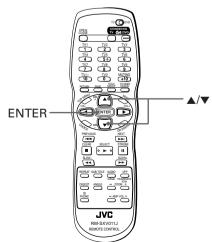
- 4 Repeat steps 2 and 3 if you set other speakers.
- To return to the "SPK. SETTING" page
 Use ▲/▼ to move □ to [RETURN] and press ENTER.

NOTE

 For the speaker(s) whose size is set to "NONE," the delay time cannot be set.

To set the speaker level

You can adjust the output level of each speaker.



 While the "SPK.SETTING" page of the preference display is shown 1 Use ▲/▼ to move ■ to [LEVEL] and press ENTER.

The LEVEL display page appears on the TV screen. points to [CENTER SPEAKER].

See page 56 for details about how to bring up the "SPK.SETTING" page.

2 Use ▲/▼ to select the speaker to be set and press ENTER.

FRONT SPEAKER: Front speakers (This item

cannot be selected. The level is

fixed to 0dB.)

CENTER SPEAKER: Center speaker
REAR SPEAKER: Rear speakers
SUB WOOFER: Subwoofer speaker

- 3 Use ▲/▼ to set the level and press ENTER.

 When you select "CENTER SPEAKER," "REAR

 SPEAKER" or "SUB WOOFER," you can select the
 level from –6 to 6dB in 1dB units.
- 4 Repeat steps 2 and 3 if you set other speakers.
- To return to the "SPK.SETTING" page
 Use ▲/▼ to move to [RETURN] and press ENTER.

NOTE

 For the speaker(s) whose size is set to "NONE," the speaker level cannot be set.

To generate test tone signals

You can check the level setting by monitoring the test tone.

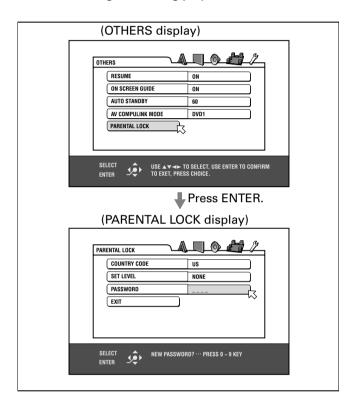
- 1 Use ▲/▼ to select [TEST TONE] and press FNTFR.
- 2 Use ▲/▼ to select [ON] and press ENTER.

 The test tone will be generated when you select the speaker(s) in the "LEVEL" display.

Changing the nitial settings

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. When selecting "PARENTAL LOCK" in the "OTHERS" page of the preference display (see page 63), pressing ENTER on the remote control unit brings up the PARENTAL LOCK sub-page shown below, in which you can make setting for limiting playback.



To set Parental Lock for the first time [PARENTAL LOCK]

- While the "OTHERS" page of the preference display is shown
 - 1 Use ▲/▼ to move □ to [PARENTAL LOCK] and press ENTER.

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

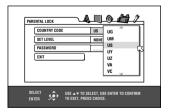
□ points to [COUNTRY CODE].

See page 56 for details about how to bring up the "OTHERS" page.

- **2** While □ points to [COUNTRY CODE], press ENTER to bring up the pull-down menu.
- **3** Use **△**/**▼** to select the country code.

The country code whose standards were applied to rate the DVD VIDEO disc should be selected.

See "Appendix A: Country/Area code list for Parental Lock" on page 76.



4 Press ENTER.

moves to [SET LEVEL].

5 While \square points to [SET LEVEL], press ENTER to bring up the pull-down menu.

In the pull-down menu, "NONE" and level "1" through "8" are available.

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



6 Use **△**/**▼** to select a desired parental lock level, then press ENTER.

moves to [PASSWORD].

7 Enter your 4-digit password using the numeric buttons (0 to 9).



8 Press ENTER.

The setting is set.

Pressing ENTER again returns to the "OTHERS" page of the preference display.



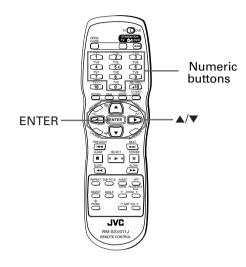
If you enter an undesired password in step 7, reenter the password before pressing ENTER.

To change the settings [PARENTAL LOCK]

Available : VIDEO



You can change the Parental Lock settings later.

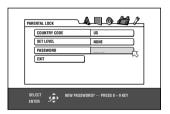


- While the "OTHERS" page of the preference display is shown
 - 1 Use ▲/▼ to move 🖂 to [PARENTAL LOCK] and press ENTER.

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

□ points to [PASSWORD].

See page 63 for details about how to bring up the "OTHERS" page.



2 Enter your current 4-digit password using the numeric buttons (0 to 9) and press ENTER.

correct password.

If you enter the wrong password, "WRONG! RETRY..." appears on the TV screen, and you cannot go to the next step.

3 To change the "COUNTRY CODE" or "SET LEVEL", press ENTER to bring up the associated pull-down menu while \square points the appropriate item.

To select the item to be set, use ▲/▼ when no pulldown menu is shown.

4 Use ▲/▼ to select a desired option and press ENTER.

Note that if you change the country code, you must reselect the Parental Lock level.

5 While \square points to [PASSWORD], enter a 4-digit password using the numeric buttons (0 to 9). The password entered in the above step becomes

the new password. If you do not change the password, enter the same password as in the step 2. Even if you want to change only the country code and/or parental level, do not forget to enter the password after changing the country code and/or parental level. Otherwise, the new country code and/or parental level will not become effective.

6 Press ENTER.

moves to [EXIT].

Pressing ENTER again returns to the "OTHERS" page of the preference display.

NOTES

- . If you enter the wrong password more than three times ▲/▼ does not work.
- If you forget your password in step 2

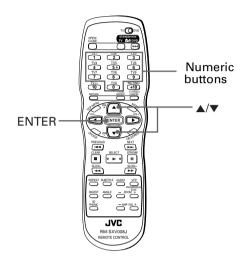
Enter "8888" The current password is deleted and you can set a new password.

To temporarily release the Parental Lock [PARENTAL LOCK]

Available : VIDEO



When you set the parental level strictly, some discs may not be played back 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 Use **▲**/**▼** to move □ to [TEMPORARY RELEASE], then press ENTER.

K moves to the [PASSWORD]. CLOSE to remove the disc.



2 Enter your 4-digit password using the numeric buttons (0 to 9).

The Parental Lock is released, and the unit starts playback.

If you enter the wrong password, "WRONG! RETRY..." appears on the TV screen. Enter the correct password.

NOTE

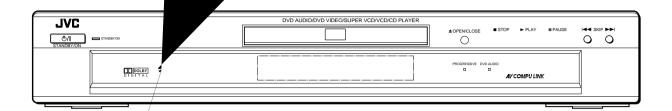
 When you enter the wrong password more than three automatically and ▲/▼ does not work.

Names of part

Refer to the corresponding pa

etails.

Front panel



- 1) STANDBY/ON
- button (14)
- 2 STANDBY/ON indicator (11, 14)
- 3 Disc tray (17, 19, 20)
 - ▲ OPEN/CLOSE button (17, 19, 20)
 - STOP button (18, 19, 47)
 - AY button (18, 20)

- **7** II PAUSE button (18, 21)
- **⑧** |◄◄/▶▶| SKIP buttons (21, 22)
- 9 Display windows (see the illustration below)
- 10 Remote sensor (12)
- 1) PROGRESSIVE indicator (7, 8, 59)
- 12 DVD AUDIO indicator (17)

low

- 5 Repeat mode indicators (33, 49, 55)
- **6 PROGRAM/RANDOM indicators (31, 33)**
- Multi-information window

OMPU LINK jacks (71)

C IN connector (11)

on code label (4)

TAL OUT jacks (OPTICAL/COAXIAL) (10)

Addit

(4) L

Additional information

AV COMPU LINK remote control system

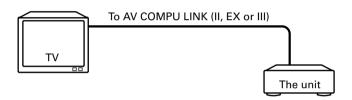
The JVC AV COMPU LINK system allows you to enjoy video or audio with the simplest operation. If your video/audio player (such as a DVD player, CD player and VCR) and television or/and amplifier/receiver support the JVC AV COMPU LINK system and are tied with the JVC AV COMPU LINK cable(s), when you simply starting the player, all the necessary settings of the television and/or amplifier/receiver for enjoying playback are automatically performed.



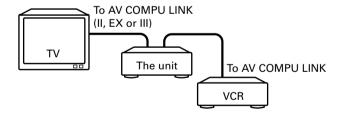
Connection and setup

Using the AV COMPU LINK cable, connect the AV COMPU LINK terminals of each component to one another

- The unit's AV COMPU LINK setting is operated in the OTHERS page in the preference display. See page 63 for operation.
- For information on the connection between the TV and the receiver, refer to the receiver's Instructions.

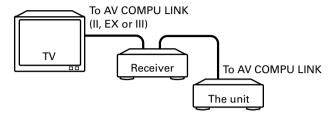


- If you connect the unit to a television via AV COMPU LINK, set the unit's AV COMPU LINK setting as follows.
 - When connecting to VIDEO-1 input terminal of the television: DVD2
 - When connecting to VIDEO-2 input terminal of the television: DVD3



- If you connect the unit to a television and VCR via AV COMPU LINK, set the VCR's Remote Control Code and the unit's AV COMPU LINK setting as follows.
 - When connecting to VIDEO-1 input terminal of the television:
 - The unit's AV COMPU LINK setting: DVD2 VCR's Remote Control Code: B
 - When connecting to VIDEO-2 input terminal of the television:

The unit's AV COMPU LINK setting: DVD3 VCR's Remote Control Code: A



 If you connect the unit to a television and receiver via AV COMPU LINK, set the unit's AV COMPU LINK setting to DVD1.

IMPORTANT!

 When you make video connection between the unit and another device (such as a receiver and TV) via the composite, S-video or component jacks, as well as AV COMPU LINK connection, see also the instruction manual of the other device.

Notes for connection

- If you connect the unit to a receiver via AV COMPU LINK in a system including a Dolby Digital decoder, some functions may not be performed automatically.
- Connect the AUDIO OUT jacks of the unit to the audio input jacks of a receiver that indicating "DVD." Otherwise, the system will not work correctly.
- There may be no description about connections to the unit in the instruction manual of a television or VCR.
 However a television or VCR with AV COMPU LINK terminals indicating "II," "EX" or "III" can be connected to the unit.

Operation

You can enjoy pictures and/or sound by just putting a source component (which plays back the pictures and/or sound such as a DVD player or VCR) into play mode. You do not have to operate the TV and receiver including not having to perform power switching.

- **1** Turn on the main power of the television.
- **2** Insert a disc (or tape) into the source component.
- **3** Press **►** of the source component.

The following actions are performed automatically:

- Turning on the power for the television.
- Setting the source of the television to the external input (VIDEO-1 or VIDEO-2).
- Turning on the power for the receiver.
- Setting the source of the receiver to the component which has started playback.

Troubleshooting

What appears to be a malfunction may not always be serious. Please go through the following list before requesting service.

POWER		
Symptom	Possible cause	Remedy
Power does not come on.	Power plug is not inserted securely.	Plug in securely.
OPERATION		
Symptom	Possible cause	Remedy
The remote control unit does not work.	Too far from the unit.	More closer to the unit.
	The tip of the remote control unit is not pointed in the right direction.	Point the infrared light- emitting window toward the remote sensor on the front panel (see page 12).
	Batteries are exhausted.	Replace the batteries with new ones.
	Battery polarity is incorrect.	Take out the batteries and insert them again in the correct direction.
	The remote control unit is not set for operating your TV.	Set the remote control unit for operating your TV (see page 14).
The TV/VIDEO - CANCEL, ▲/▼/◀/► or numeric buttons do not work.	The TV - DVD switch is not correctly set.	To control the unit, set the TV - DVD switch to "DVD." To control your TV, set the TV - DVD switch to "TV" (see page 13).
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 a non-playable disc is loaded.	Check and replace the disc (see page 4).
When using the TITLE/GROUP button to select a title during DVD VIDEO playback, \odot appears on the TV screen and the title cannot be selected.	The disc does not allow the operation because of disc contents.	Try to press ■ and select a title using the numeric buttons on the remote control unit.

DI	
	•

No picture

No picture is displayed the screen is blurred or d parts.

A picture is noisy or blurred.

A picture does not fit the television screen.	"
	Televi
The upper and lower parts of the preference display are cut off when using wide-aspect TV.	It depen

AUDIO

Symptom	Possib	
No audio is reproduced.	Connection is incorrect.	
	Input selection of amplifier	
Audio volume is low when playing back the unit, compared with the TV or VCR.	The audio level recorded on a Lis lower, compared with TV broad	
Sound is distorted or noise is generated.	Disc is dirty.	
"MULTI CH" is shown in the display window when playing back a DVD AUDIO disc.	The track is prohibited from down-mixing to 2-channel stereo audio.	Lis

Additional information

Frequently Asked Questions

Question	Answer	Ref. page
Can I play back DVD VIDEO and Video CD purchased abroad?	You can play back the DVD VIDEO discs with the Region Code (local code) containing "ALL" or "1" recorded in the NTSC or PAL system (PAL disc signals are reproduced by converting to the NTSC system). You can also play back the Video CD discs recorded in the NTSC system. Please check the information on each disc jacket.	4
Can I play back a DVD VIDEO disc without any Region Code number?	The Region code indicates the conformity of the disc to the standards. Any DVD VIDEO not conforming to the standards cannot be played back.	4
Can I play back a CD-R/RW disc with still pictures in other than the JPEG format?	No, you cannot play back that disc.	4
Can I play back audio on a disc labeled "Dolby Digital EX"?	Yes, you can play back the disc because Dolby Digital EX is compatible with Dolby Digital. However, to get the maximum performance of Dolby Digital EX, we recommend to connect the DIGITAL OUT jack to a decoder or amplifier/receiver with built-in decoder that supports Dolby Digital EX. In this case, set "DIGITAL AUDIO OUTPUT" on the "AUDIO" preference display to "STREAM/PCM."	60
Can I play back audio on a disc labeled "DTS ES"? Is there any difference in the playback settings between Discrete and Matrix recording systems for DTS ES?	Though you cannot enjoy audio using the analog audio outputs (AUDIO OUT), you can enjoy DTS ES audio by connecting the DIGITAL OUT jack to a decoder or amplifier/receiver with built-in decoder that supports DTS ES. In this case, set "DIGITAL AUDIO OUTPUT" on the "AUDIO" preference display to "STREAM/PCM."	60
Can this unit play back a disc labeled "THX"? What does "THX" mean?	Yes you can. "THX" is a name of the original standard for high quality picture/audio recording and playback established by Lucasfilm Ltd. A disc labeled "THX" is certified that it passed this standard.	_
When files of the MP3 and Audio CD formats are recorded on a same disc, can the unit play back files of both formats?	The disc is of the data CD format, therefore, the unit can play back only files of the MP3 format.	4, 47
Some Dolby Digital discs contain 5.1-ch Surround or Dolby Surround audio data. What is the difference between these two types?	Both are surround sound standards developed by Dolby Laboratories Inc. in the U.S.A. Dolby Surround records 2-channel surround audio information are recorded onto the analog stereo (left and right) channels together with front stereo audio information. When played back, the surround signals are separated by a Dolby Surround or Dolby Pro Logic decoder. Dolby Digital digitally encodes and records up to six channel information for left, right, center, rear left, rear right and LFE (Low-Frequency Effect for Sub-woofer etc.). When played back, a Dolby Digital decoder decodes data and outputs signals separately. Generally, Dolby Digital sounds better.	4
When playing back a DVD VIDEO or Video CD disc, something like mosaic appears on the TV screen. Is this because of a malfunction of the unit?	It is a block noise specific to a motion picture recorded in digital, and is not a malfunction of the unit.	<u>—</u>
The unit does not function as described in this Instruction Manual.	The operation of this unit may occasionally be unacceptable due to the intention of the disc contents creator and/or structural restrictions.	_
Can I record DVD VIDEO data on a video tape?	Most of all DVD VIDEO discs are copy-protected so that you cannot record DVD VIDEO data onto any video tape.	3
Can this unit record data?	No, you cannot.	_

Specifications

*Specifications and appearance subject to change without prior notice.

General

Readable discs: DVD AUDIO, DVD VIDEO, DVD-R (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: NTSC, 480i (Interlaced scan)/480p (Progressive scan) selectable

Other

Power requirements:

14 W (POWER ON), 2.0 W (STANDBY mode) Power consumption:

2.5 kg (5.6 lbs) Mass:

Dimensions (W x H x D): 435 mm x 73 mm x 267.5 mm

(17-3/16 inch x 2-7/8 inch x 10-9/16 inch)

Video outputs

COMPONENT (pin jacks): Y Output: 1.0 Vp-p (75 Ω)

> PB/PR Output: 0.7 Vp-p (75 Ω)

VIDEO OUT (pin jack): 1.0 Vp-p (75 Ω)

S-VIDEO OUT (S jack): Y Output: 1.0 Vp-p (75 Ω)

286 mVp-p (75 Ω) C Output:

500 Lines or more Horizontal resolution:

Audio outputs

ANALOG OUT (pin jack): 2.0 Vrms (10 k Ω)

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

(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

(2 Hz to 20 kHz for DTS and Dolby Digital bitstream signals) (sampling frequency 96kHz/88.2 kHz): 2 Hz to 44 kHz

DVD DVD (sampling frequency 192kHz/176.4 kHz):2 Hz to 88 kHz

Dynamic range: 16 bit: More than 98 dB

20/24 bit: More than 110 dB

Wow and flutter: Unmeasurable (less than ± 0.002%)

Total harmonic distortion: 16 bit: Less than 0.0018% 20/24 bit: Less than 0.0012%

*Notes for PX model (Check the specification indication on the rear panel.):

Power requirements : AC 110V - 240V ◆, 50Hz/60Hz

Power consumption: 15W (POWER ON), 3.4W (STANDBY mode)

Additiona informati

Appendix A: Country/Area code list for Parental Lock

This list is used for the Parental Lock operation. For details, see page 66.

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
Al	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	
AS	Argentina 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
ВО	Bolivia
BR	Brazil
BS	Bahamas
BT	
	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
BZ CA	Belize Canada
BZ CA CC	Belize Canada Cocos (Keeling) Islands
BZ CA	Belize Canada Cocos (Keeling) Islands Central African
BZ CA CC CF	Belize Canada Cocos (Keeling) Islands Central African Republic
BZ CA CC CF	Belize Canada Cocos (Keeling) Islands Central African Republic Congo
BZ CA CC CF	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland
BZ CA CC CF CG CH	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire
BZ CA CC CF CG CH CI CK	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland
BZ CA CC CF CG CH CI CK CL	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire
BZ CA CC CF CG CH CI CK	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon
BZ CA CC CF CG CH CI CK CL	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile
BZ CA CC CF CG CH CI CK CL	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon
BZ CA CC CF CG CH CI CK CL CM	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia
BZ CA CC CF CG CH CI CK CL CM CN CO CR CU	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China
BZ CA CC CF CG CH CI CK CL CM CN CO CR	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba
BZ CA CC CF CG CH CI CK CL CM CO CR CO CR	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde
BZ CA CC CF CG CH CI CK CL CM CO CR CO CR CU CV CX	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island
BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CX CY	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus
BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CX CY CZ	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic
BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CY CZ DE	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany
BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CX CY CZ DE DJ	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti
BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CX CY CZ DE DJ DK	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark
BZ CA CC CF CG CH CI CK CL CM CO CR CV CY CZ DE DJ DK DM	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica
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BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador
BZ CA CC CF CG CH CI CK CL CM CO CR CV CY CZ DE DJ DK DM DO DZ EC EE	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia
BZ CA CC CF CG CH CI CK CL CM CO CR CV CZ DE DJ DK DM DO DZ EC EE	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia
BZ CA CC CF CG CH CI CK CL CM CO CR CU CV CZ DE DJ DK DM DO DZ EC EE EG EH	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia Egypt Western Sahara
BZ CA CC CF CG CH CI CK CL CM CO CR CV CY CZ DE DJ DK DM DO DZ EC EE	Belize Canada Cocos (Keeling) Islands Central African Republic Congo Switzerland Cô te d'Ivoire Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia

ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia
FIVI	
	(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
1 11171	
HN	McDonald Islands Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
	Ireland
IE	
IL	Israel
	India
IL	
IL IN	India
IL IN IO	India British Indian Ocean Territory
IL IN IO	India British Indian Ocean Territory Iraq
IL IN IO	India British Indian Ocean Territory Iraq Iran (Islamic Republic
IL IN IO IQ IR	India British Indian Ocean Territory Iraq Iran (Islamic Republic of)
IL IN IO IQ IR	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland
IL IN IO IQ IR IS	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy
IL IN IO IQ IR IS IT JM	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica
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IL IN IO IQ IR IS IT JM	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica
IL IN IO IQ IR IS IT JM JO	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan
IL IN IO IQ IR IS IT JM JO JP KE	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya
IL IN IO IQ IR IS IT JM JO JP KE KG	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan
IL IN IO IQ IR IS IT JM JO JP KE KG KH	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN KP	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN KP	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN KP	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KM KN KP KR	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait Cayman Islands Kazakhstan
IL IN IO IQ IR IS IT JM JO JP KE KG KH KI KN KN KP KR KW KY KZ	India British Indian Ocean Territory Iraq Iran (Islamic Republic of) Iceland Italy Jamaica Jordan Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait Cayman Islands

e pag	5 00.	
LB	Lebanon	
LC	Saint Lucia	 I
LI	Liechtenstein	I
LK	Sri Lanka	I
LR	Liberia	ı
LS	Lesotho	ı
LT	Lithuania	I
LU	Luxembourg	I
LV	Latvia	I
LY	Libyan Arab	I
MA	Morocco	I
MC	Monaco	I
MD	Moldova, Republic of	l .
MG	Madagascar	(
МН	Marshall Islands	l .
ML	Mali	(
MM	Myanmar	I
MN	Mongolia	I
МО	Macau	ı
MP	Northern Mariana	I
	Islands	I
	Martinique	I
	Mauritania	I
MS	Montserrat	ı
MT	Malta	I
	Mauritius	I
	Maldives	(
	Malawi	l .
MX	Mexico	l .
	Malaysia	(
MZ	Mozambique	l .
NA	Namibia	(
NC	New Caledonia	(
NE	Niger Norfolk Island	(
NF NG	Norfolk Island	ı
NG NI	Nigeria Nicaragua	(
NI NL	Nicaragua Netherlands	(
NL NO	Netherlands Norway	l .
NO NP	Norway Nepal	ı
NP NR	Nauru	(
NU	Niue	(
NZ	New Zealand	I
OM	Oman	I
PA	Panama	ı
PE	Peru	(
PF	French Polynesia	(
PG	Papua New Guinea	1
PH	Philippines	l
PK	Pakistan	(
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PM	Saint Pierre and	l
i ., '	Miquelon	l
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Auditional information

Appendix B: Glossary

480i/480p

Indicates the number of scanning lines and scanning format of an image signal. 480i indicates 480 scanning lines with interlace format, and 480p indicates 480 scanning lines with progressive format.

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. The 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.

Channel, CH

Stereo or multichannel audio consists of "channel" signals. "Stereo" audio consists of left and right channels, while 5.1-channel Dolby Digital consists of six channels (front left, front right, rear left, rear right, center and LFE (Low-Frequency Effect channel for subwoofer, etc.).

Chapter

The smallest division on DVD VIDEO. It is a division of a title and similar to a track for Audio CD or Video CD.

Component video

Video signals with three channels of separate information that makes up the picture. There are some types of component video, such as R/G/B and Y/ $C_B(P_B)/C_R(P_R)$.

Composite video

A single video signal commonly used in most consumer video products that contains all luminance, color, and synchronization information.

Dolby Digital (AC3)

A six-channel system consisting of left, center, right, left rear, right rear and LFE (Low-Frequency Effect channel for sub-woofer, etc.) channels. All processing is done in the digital domain.

Not all Dolby Digital discs contain six (5.1) channel information.

Dolby Surround/Dolby Prologic

Dolby Surround is a five-channel system consisting of left, center, right and left rear, right rear channels. All processing is done in the digital domain. Dolby Prologic is a four-channel system consisting of left, center, right and rear channel (the single rear channel is usually played through two speakers).

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) channel information.

Dynamic range

The difference between the loudest and softest sounds.

Dynamic range compression

The dynamic range compression (DRC) reduces the dynamic range so that you can turn down the volume to avoid disturbing others yet still hear the detail of quiet passages.

Extension

Several letters at the end of a file name. File name extensions usually follow a period and indicate the type of information stored in the file.

Finalize

When conducting multisession recording, this means the closing of a session (fixing) by indicating the halting of writing so as to prevent the addition of any more sessions.

F

See "Sampling frequency."

Group

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F

Additional information

Letter box

A type of picture playback with the normal (4:3) TV screen. Black bars are shown at the top and bottom of the image to allow playing of wide-screen (16:9) DVD movie without cutting off any sides of the image on a 4:3 TV.

Linear PCM audio

Stands for "pulse code modulation." Linear PCM is the usual digital method without compression, used for audio playback of DVD Video discs, Audio CD discs, etc.

Menu

Most DVD AUDIO, DVD VIDEO or SVCD/Video CD discs provide a menu, through which users can select a desired playback material, condition, etc.

MLP

MLP stands for "Meridian Lossless Packing." A lossless audio compression system that can completely recreate the PCM signal.

MP3

MP3 is an audio data reduction 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.

Multisession

A method of adding data to a CD-R/CD-RW in more than one recording session using the Track-At-Once method.

NTSC (National television system committee)

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

Packet Writing

A method of writing data on a CD-R/CD-RW in small increments. Packets can be of fixed or variable length.

PAL (Phase Alternation by Line)

A color television system format used extensively in Western Europe.

Pan scanning

A type of picture playback with the normal (4:3) TV screen, which is panned and zoomed across the wider movie picture, chopping off the left and right sides.

Parental lock

A DVD function that prevents undesired viewing by children depending on disc contents. You need a password to play back a locked disc in the normal condition. Otherwise, undesirable scenes are automatically skipped or replaced with other pictures.

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.

Progressive scan

Progressive scanning displays all the horizontal lines of a picture at one time, as a single frame. A progressive-scanning DVD player converts the interlaced (480i) video from DVD into progressive (480p) format for connection to a progressive display. It dramatically increases the vertical resolution.

Region code

Code identifying a geographic region of compatibility for a DVD.

Sampling frequency

The rate at which measurements of an audio signal are taken during A/D and D/A conversion. The measure is samples per second.

Surround

An audio system with more than two (left and right) channels, usually including rear channels, etc.

S-video

A video signal which improves picture quality over standard composite connections. Used on Super VHS, DVD, high end TV monitors, etc.

Title

The largest division on DVD VIDEO.

Track

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

Transfer rate

The rate of transferring digital data. Usually the measure is in baud per second. The DVD system applies variable transfer rate system for high efficiency.

Appendix C: Index

Numerics 3D PHONIC 480i..... 480p A-B repeat..... Angle..... Audio language..... Auto standby..... AV COMPU LINK..... AV COMPULINK mode В Bonus group..... Chapter 5, 22, Chapter search Component video Copyguard system..... Copy-protected disc..., Country code..... D D. range compressi Digest..... Digital audio outp Direct selection .. Disc resume.....

Ε

Extension

Dolby Digital...
DTS
DVD menu ...
DVD PLAYEF

F

Finalize

G

Group

ı

ID3

Ini In

Authorized Service Centers



TOLL FREE: 1 (800) 537-5722 http://www.jvc.com

Dear Customer,

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit.In the event that repairs are necessary, please call 1 (800)537-5722 for your nearest authorized servicer or visit our website at **www.JVC.com**Remember to retain your Bill of Sale for Warranty Service.

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To prevent electrical shock, do not open the cabinet. There are no user serviceable parts inside. Please refer to qualified service personnel for repairs.

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