

# HITACHI

Inspire the Next

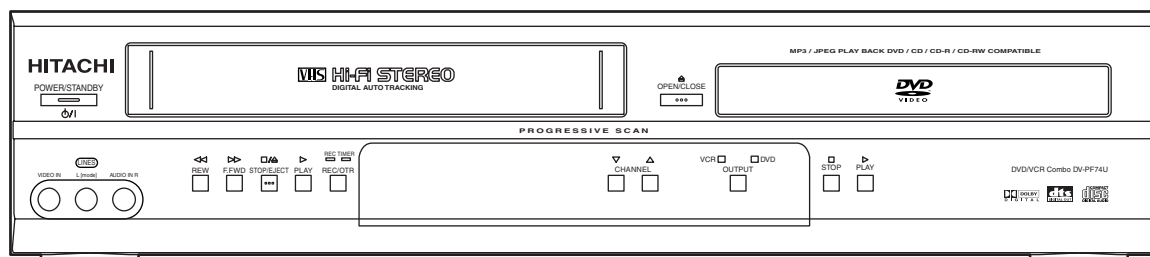
## DVD/VCR Combo (DVD PLAYER with VIDEO CASSETTE RECORDER) INSTRUCTION MANUAL

MODEL

# DV-PF74U

English

Español



**HITACHI AMERICA, LTD.**  
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Chula Vista, CA 91914-3556  
Service Hotline: 1-800-HITACHI

**INSTRUCCIONES EN ESPAÑOL INCLUIDAS.**

### Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

**WARNING:**

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

**CAUTION**

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**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 to alert 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.

## LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

**CAUTION:** USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**CAUTION:** VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

**LOCATION:** INSIDE, NEAR THE DECK MECHANISM.

**FCC WARNING-** This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

**RADIO-TV INTERFERENCE**

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:

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


**This Class B digital apparatus complies with Canadian ICES-003.**

**Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.**

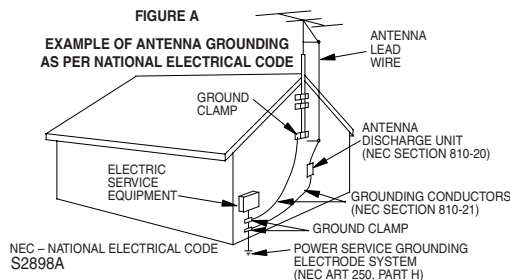
**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.**

**ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU’AU FOND.**

# IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.  
**EXCEPTION:** A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. Attachments - Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
7. Water and Moisture- Do not use this video product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories - Do not place this video product on an unstable cart, stand, tripod, bracket, or table. PORTABLE CART WARNING (Symbol provided by RETAC)  
  
S3125A  
The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.  
**AMEUBLES-** Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.
9. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
11. Grounding or Polarization - This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)



14. Lightning - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
15. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. Object and Liquid Entry - Never push objects of any kind into this video product through any openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.
18. Servicing - Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. Damage Requiring Service - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power-supply cord or plug is damaged.
  - b. If liquid has been spilled, or objects have fallen into the video product.
  - c. If the video product has been exposed to rain or water.
  - d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
  - e. If the video product has been dropped or damaged in any way.
  - f. When the video product exhibits a distinct change in performance this indicates a need for service.
20. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. Safety Check - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.
22. Heat - This video product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

### A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of all materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Alliance: [www.eiae.org](http://www.eiae.org)

The serial number of this product may be found on the back of the DVD/VCR. This serial number is unique to your machine. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

## ABOUT COPYRIGHT

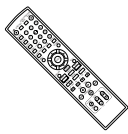

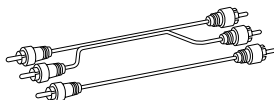
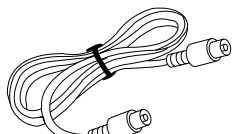
Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

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

## NOTICE FOR PROGRESSIVE SCAN OUTPUTS

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our customer service center.

## SUPPLIED ACCESSORIES

<p>Remote control</p>  <p>DV-RMPF74U(TS18856)</p>	<p>Two AA batteries</p> 	<p>A/V cables</p>  <p>(approx. 3 feet (100 cm) long) (TE14751)</p>	<p>RF Cable</p>  <p>(5857952)</p>
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## SYMBOLS USED IN THIS MANUAL

The following symbols below appear in some headings and notes in this manual, with the following meanings

### VCR

: Description refers to playback or recording of video cassette tapes.

### DVD

: Description refers to playback of DVD video discs.

### CD

: Description refers to playback of audio CDs.

### MP3

: Description refers to playback of MP3 discs.

### JPEG

: Description refers to viewing of JPEG discs.

### QUICK

: Description refers to the items to be set in the QUICK mode.

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# FEATURES

## DVD Mode

- **Progressive Scan system**

- **Dolby Digital sound**

By hooking this DVD/VCR up to a Multi-channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1ch surround sound as heard in the movie theaters.

- **Still/fast/slow/step playback**

- **Random playback for audio CD, MP3, and JPEG**

- **Program playback for audio CD, MP3, and JPEG**

- **DVD menus in a desired language**

- **Screen saver/Auto power-off functions**

The screen saver program starts when there is no input from the DVD/VCR for five minutes in the stop mode. When the screen saver program is activated for 30 minutes, the power is automatically turned off.

- **Subtitles in a desired language**

- **Selecting a camera angle**

- **Choices for audio language and sound mode**

- **Parental lock**

- **Automatic detection of discs**

This DVD/VCR automatically detects if the loaded disc is DVD, audio CD, MP3, or JPEG disc.

- **Playing an MP3 disc**

- **Displaying a JPEG picture**

This DVD/VCR plays back still images stored in JPEG format on CD-R/RW.

- **Direct Search**

- **DTS (Digital Theater System)**

You can enjoy 5.1 channel surround system developed by the Digital Theater System co. which reproduces the original sound as truthfully as possible.

External DTS decoder required.

- **On-screen display**

Information about the current operation can be displayed on the TV screen, allowing you to confirm the currently active functions (such as program playback), on the TV screen using the remote control.

- **Search**

Chapter search / Title search / Track search / Time search

- **Repeat**

Chapter / Title / Track / Group / All / A-B

- **Zoom**

- **Marker**

The part designated by user can be called back.

- **Disc Navigation**

Displays the first scenes of each chapter in a title.

- **Resume Play**

- **Virtual Surround**

- **Component Video Out Jacks**

Jacks located on the back of the DVD/VCR which are used to send high-quality video to a TV via Component Video In Jacks.

- **Bit rate indication**

- **DRC (Dynamic range control)**

You can control the range of sound volume.

- **Black Level Setting**

## VCR Mode

### Hardware specifications

- **Auto Head Cleaner**

- **4 Head HiFi Stereo**

- **Trilingual on-screen menu display selectable in English, French, or Spanish**

- **181 channel capability PLL frequency synthesizer tuner with direct station call**

(A cable converter box may be necessary to view scrambled cable channels.)

### Automatic functions

- **Auto power on system**

Automatically turns on the DVD/VCR when you insert a cassette.

- **Digital Auto Tracking (DTR)**

### Playback

- **Auto Repeat**

- **2 Step Picture Search Operation**

- **Index Search**

- **Time Search**

### Recording

- **1 Year, 8 events (including Daily and Weekly Timer Recording)**

- **OTR (One Touch Recording)**

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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

## Selecting Progressive Scan (525p/480p or Interlaced 525i/480i) Playback

- If your TV is compatible with progressive scanning (525p/480p), connect the TV to the COMPONENT VIDEO OUT jacks of this unit (refer to page 15), and set to the progressive scanning mode by pressing **PLAY** for more than 5 seconds on the front of the unit. "P. SCAN" will appear on display of the unit.
- To set to the interlace mode, press **PLAY** for more than 5 seconds on the front of the unit. "P. SCAN" will disappear on display of the unit.
- If your TV is not compatible with progressive scanning, keep this unit in the interlace mode (Make sure that "P. SCAN" on display of the unit lights off).
- Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type.

## What is Progressive Scanning?

- Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (525i/480i) television signals.



## PRECAUTIONS

### INSTALLATION LOCATION

For safety and optimum performance of your DVD/VCR:

- Install the DVD/VCR in a horizontal and stable position. Do not place anything directly on top of the DVD/VCR. Do not place the DVD/VCR directly on top of the TV.
- Shield it from direct sunlight and keep it away from sources of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the DVD/VCR. Avoid locations subject to strong vibration or strong magnetic fields.

### AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.

- Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your DVD/VCR, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
- Do not put your fingers or objects into the DVD/VCR cassette holder.

### MOISTURE CONDENSATION WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the DVD/VCR at least for 2 hours until its inside is dry.

## ABOUT THE DISCS

### PLAYABLE DISCS

The following discs can be played back on this DVD/VCR.

- **DVD video**
- **Audio CD**
- **MP3 disc\***
- **DVD-R\***
- **CD-R/RW\***
- **JPEG disc**

\* Depending on the types or the writing method of the medium some discs may not be played.

- Some DVD-R or CD-R/RW discs made on personal computers, or on DVD recorders may not be played back properly due to factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not be played back properly due to different environments or the settings of the application you use. We recommend always to use the standardized, properly formatted discs. (Please contact the sales agency for more detail).
- You can play back discs which bear the marks on page 33. If you use nonstandardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
- This DVD/VCR conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.
- Some discs include region codes as shown below.

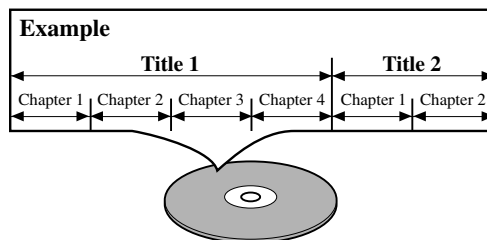


- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD/VCR with the same region code.
- **On the following discs, only the sound can be heard (picture cannot be viewed).**  
CDV  
CD-G
- **NEVER play back the following discs. Otherwise, malfunction may result!**  
DVD-RAM  
CD-I  
Photo CD  
Video CD  
DVD with region codes other than 1 or ALL  
DVD-ROM for personal computers  
CD-ROM for personal computers
- **On the following disc, the sound may not be heard.**  
Super Audio CD  
**Note: Only the sound recorded on the normal CD layer can be delivered.**  
**The sound recorded on the high density Super Audio CD layer cannot be delivered.**
- Any other discs without compatibility indications.

### DISC TYPES

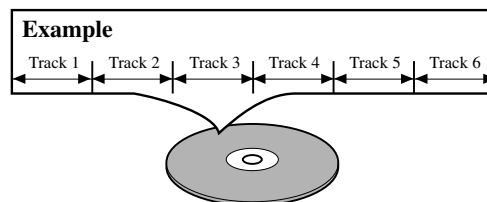
#### [DVD]

Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions on some DVDs take priority over user operations on this DVD/VCR. If a function you select does not run as desired, refer to the manual accompanying the disc.



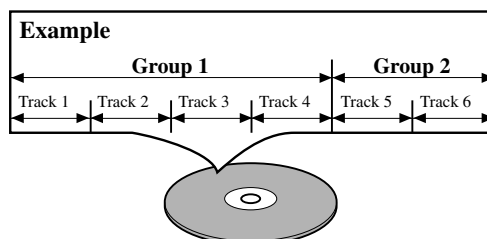
#### [AUDIO CD]

Data on an audio CD is divided into sections called "tracks", each of which is given a track number.



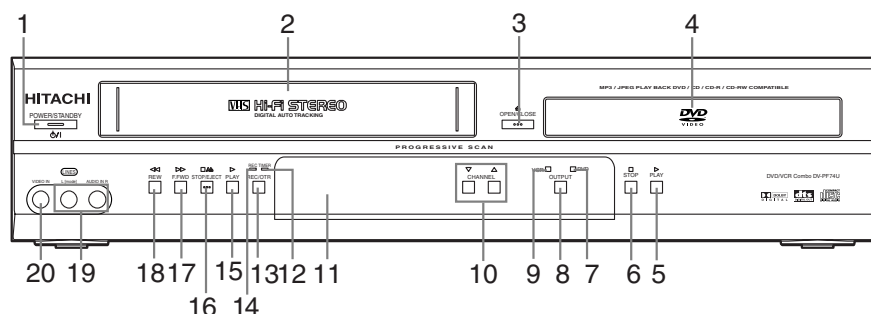
#### [MP3/JPEG]

Data on an MP3 or JPEG disc is divided into sections called "groups", and then into subsections called "tracks", each of which is given a group or track number.

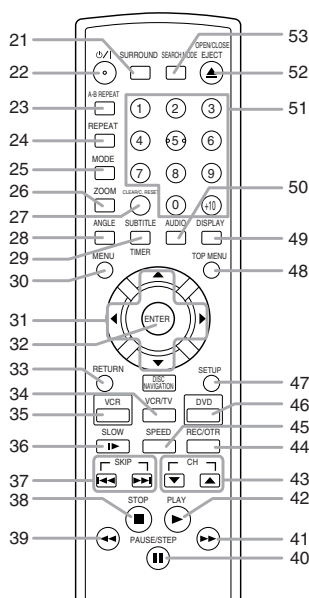


# OPERATING CONTROLS AND FUNCTIONS

## FRONT PANEL



## REMOTE CONTROL



### 1. POWER/STANDBY Button [page 16]

Press to turn the power on and off.

### 2. CASSETTE COMPARTMENT

### 3. OPEN/CLOSE Button [page 22]

Press to insert discs into or remove them from the tray.

### 4. Disc loading tray

### 5. PLAY Button (DVD) [page 22]

Press to begin playback.

Press to switch between progressive mode and interlace modes.

### 6. STOP Button (DVD) [page 22]

Stops operation of the disc.

### 7. DVD OUTPUT Light (Green) [page 12]

This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD OUTPUT Light is on. To make the green DVD OUTPUT Light come on, press DVD on the remote control or OUTPUT on the front panel.

### 8. OUTPUT Button [page 12]

Press to select DVD mode or VCR mode.

● You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.

### 9. VCR OUTPUT Light (Green) [page 12]

This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light is on. To make the green VCR OUTPUT light come on, select VCR on the remote control or OUTPUT on the front panel.

### 10. CHANNEL Buttons [page 19]

In VCR mode, press to change TV channels on the DVD/VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.

### 11. Display, Remote Sensor Window

### 12. TIMER Light [page 20]

This light glows when the DVD/VCR is in standby mode or off for a timer recording or during an One Touch Recording. It flashes if TIMER is pressed for a timer recording, but there is no tape in the DVD/VCR. It flashes when all timer recordings or One Touch Recordings are finished.

### 13. REC/OTR Button

Press once to start a recording. Press repeatedly to start an One Touch Recording.

### 14. REC Light [page 20]

Lights up during recording.

### 15. PLAY Button (VCR) [page 18]

Press to begin playback.

### 16. STOP/EJECT Button (VCR) [page 18]

EJECT Button

Press to remove the tape from the DVD/VCR.

### STOP Button

Press to stop the tape motion.

### 17. F.FWD Button (VCR) [page 18]

Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search).

### 18. REW Button (VCR) [page 18]

Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).

### 19. AUDIO In Jacks

Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.

### 20. VIDEO In Jack

Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, camcorder, etc.) here.

### 21. SURROUND Button [page 30]

Press to activate the 3D sound.

### 22. O/I (POWER/STANDBY) Button

Press to turn the power on and off.

(As to the indication of the Operate switch, "I" shows ON and "O/I" shows electrical power stand-by.)

### 23. A-B REPEAT Button [page 25]

Repeats playback of a selected section.

### 24. REPEAT Button [page 25]

Repeats playback of the current disc, title, chapter or track.

### 25. MODE Button [page 26, 30]

Activates program playback or random playback mode when playing Audio CD, MP3 or JPEG on discs. Sets Black level and Slide Show Mode.



- 26. ZOOM Button [page 24]**  
Enlarges a part of the DVD-reproduced image.
- 27. CLEAR/C.RESET Button**  
● **DVD mode [page 24]**  
Press to reset the setting.  
● **VCR mode [page 18]**  
Press to reset the counter. Press to exit from the MENU screen.
- 28. ANGLE Button [page 28]**  
Press to change the camera angle to see the sequence being played back from a different angle.
- 29. SUBTITLE Button [page 27]**  
Press to select the desired subtitle language.
- TIMER Button [page 20]**  
Press to put the VCR into standby mode for a timer recording.
- 30. MENU Button**  
● **DVD mode [page 23]**  
Press to display the menu of the Disc.  
● **VCR mode [page 16]**  
Press to access the VCR menu.
- 31. Arrow Buttons**  
● **DVD mode**  
▼ / ▲ / ► / ◀ **Buttons**  
Move the cursor and determines its position.  
● **VCR mode**  
▼ / ▲ **Buttons**  
Press to enter digits when setting program (For example: setting clock or timer program). Press to select the setting modes from the on screen menu.  
▶ **Button**  
When setting program (For example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.  
◀ **Button**  
Press to cancel a setting of timer program. Press to correct digits when setting program (For example: setting clock or timer program). Press to add or delete channel numbers during channel preset.
- 32. ENTER Button**  
Press to accept a setting.
- 33. RETURN Button**  
Returns to the previous operation.
- 34. VCR/TV Button [page 20]**  
Use to select VCR or TV position.  
This DVD/VCR does not have VCR/TV light. If noise appears on your TV when you turn on DVD/VCR(VCR mode), press this button.  
● **VCR Position**  
To view playback, to monitor video recordings or to watch TV using the VCR tuner.  
● **TV Position**  
To watch TV or to view one program while recording another.
- DISC NAVIGATION Button [page 22]**  
Press to display the first scene of each chapter of the title being played.
- 35. VCR Button [page 12]**  
Press to select VCR mode for the remote control.  
● You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, **if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.**
- 36. SLOW Button [page 18]**  
During tape playback, press to view the video tape in slow motion. Press PLAY to resume normal playback. This button does not affect DVD playback.
- 37. SKIP Buttons**  
● **DVD mode**  
Press to skip Chapters or Tracks.
- 38. STOP Button**  
● **DVD mode**  
Press to stop the disc motion.  
● **VCR mode**  
Press to stop the tape motion.
- 39. ◀◀ Button**  
● **DVD mode**  
Press to view the DVD picture in fast reverse motion or to reverse playback of an Audio CD, MP3 or JPEG on discs. For DVD, press PAUSE/STEP, then press this button to begin slow reverse motion playback. Press this button repeatedly to change the reverse speed of slow reverse motion.  
● **VCR mode**  
Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).
- 40. PAUSE/STEP Button**  
● **DVD mode [page 23]**  
Press to pause Disc playback. Press repeatedly to advance the DVD picture step by step (or one frame at a time).  
● **VCR mode [page 18]**  
While recording, press to temporarily stop the recording (pause). Press again to resume normal recording. You cannot pause an One Touch Recording. Press during tape playback to freeze the picture. Press to advance the picture one frame at a time during still mode.
- 41. ▶▶ Button**  
● **DVD mode**  
Press to fast forward the Disc. Press PAUSE/STEP, then press this button to begin slow motion playback. Press this button repeatedly to change the forward speed of slow motion.  
● **VCR mode**  
Press to rapidly advance the tape, or view the picture rapidly in forward during playback (Forward Search).
- 42. PLAY Button**  
● **DVD mode**  
Press to begin playback.  
● **VCR mode**  
Press to begin playback.
- 43. CH Button**  
● **VCR mode**  
Press to change TV channels on the DVD/VCR.
- 44. REC/OTR Button**  
Press once to start a recording.  
Press repeatedly to start an One Touch Recording.
- 45. SPEED Button [page 19]**  
Press to select the VCR's recording speed (SP or SLP)
- 46. DVD Button [page 12]**  
Press to select DVD mode for the remote control.  
● You can switch the OUTPUT mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, **if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.**
- 47. SETUP Button [page 29]**  
Press to enter the setup mode.
- 48. TOP MENU Button [page 23]**  
Press to call up the title menu.
- 49. DISPLAY Button**  
● **DVD mode [page 28]**  
Press to access or remove the display screen during DVD, Audio CD, MP3 or JPEG playback.  
● **VCR mode [page 21]**  
Press to access or remove the VCR's on-screen status display.
- 50. AUDIO Button [page 27]**  
Press to select a desired audio language or sound mode.
- 51. Number Buttons**  
● **DVD mode [page 24]**  
Press to directly select a Chapter or a Title for playback. (DVD)  
Press to directly select a Track for playback. (Audio CD, MP3 or JPEG on discs)

### ● VCR mode [page 16]

Press to select TV channels on the DVD/VCR.

To select channels, enter channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 then 6.

### 52. OPEN/CLOSE Button

Press to open or close the disc loading tray.

#### EJECT Button

Press to eject the video cassette from the DVD/VCR.

### 53. SEARCH MODE Button

#### ● DVD mode [page 24]

Press to access or remove the Search display, which allows you to go directly to a specific Title/Chapter/Track/Time/Marker.

#### ● VCR mode [page 18]

Press to perform a Time Search or an Index Search.

**Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the DVD/VCR.**














### Notes

- To use the remote control to operate the DVD/VCR and its features, press DVD on the remote control before pressing other DVD's operation buttons. Verify that the green DVD OUTPUT Light is on.
- To use the remote control to operate the VCR and its features, press VCR on the remote control before pressing other VCR's operation buttons. Verify that the green VCR OUTPUT Light is on.








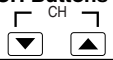










### Tour of the Remote Control

Buttons on remote control work in different ways for DVD, CD and VCR :

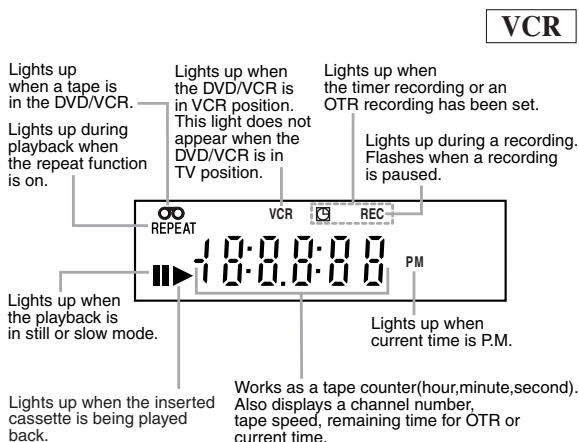
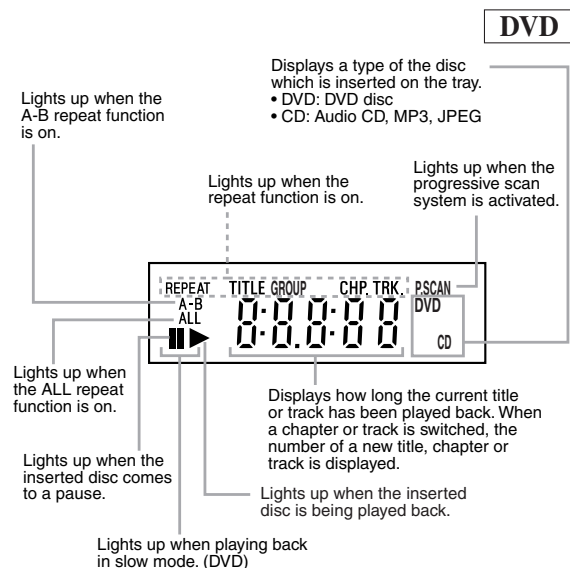
Refer to the following table for correct use.

	DVD	CD	VCR
<b>POWER/STANDBY Button</b> 	<ul style="list-style-type: none"> <li>• To turn on and of the DVD/VCR</li> </ul>	<ul style="list-style-type: none"> <li>• To turn on and of the DVD/VCR</li> </ul>	<ul style="list-style-type: none"> <li>• To turn on and of the DVD/VCR</li> </ul>
<b>A-B REPEAT Button</b> 	<ul style="list-style-type: none"> <li>• To mark a segment to repeat between A and B</li> </ul>	<ul style="list-style-type: none"> <li>• To mark a segment to repeat between A and B</li> </ul>	<p>—</p>
<b>REPEAT Button</b> 	<ul style="list-style-type: none"> <li>• To repeat play a Chapter or Title</li> </ul>	<ul style="list-style-type: none"> <li>• To repeat play a Track or Disc</li> </ul>	<p>—</p>
<b>MODE Button</b> 	<ul style="list-style-type: none"> <li>• To set black level on/off.</li> </ul>	<ul style="list-style-type: none"> <li>• To program a specific order or random playback</li> </ul>	<p>—</p>
<b>ZOOM Button</b> 	<ul style="list-style-type: none"> <li>• To magnify part of a picture (x2/x4)</li> </ul>	<p>—</p>	<p>—</p>
<b>ANGLE Button</b> 	<ul style="list-style-type: none"> <li>• To select camera angles on a disc</li> </ul>	<p>—</p>	<p>—</p>
<b>SUBTITLE/TIMER Button</b> 	<ul style="list-style-type: none"> <li>• To select a subtitle on a disc</li> </ul>	<p>—</p>	<ul style="list-style-type: none"> <li>• To put the VCR into standby mode for a timer recording</li> </ul>
<b>AUDIO Button</b> 	<ul style="list-style-type: none"> <li>• To access various audio functions on a disc.</li> </ul>	<ul style="list-style-type: none"> <li>• To select STEREO, L-CH or R-CH</li> </ul>	<p>—</p>
<b>DISPLAY Button</b> 	<ul style="list-style-type: none"> <li>• To display the current disc mode</li> </ul>	<ul style="list-style-type: none"> <li>• To display the current disc mode</li> </ul>	<ul style="list-style-type: none"> <li>• To display the current time, tape counter, channel</li> </ul>
<b>SURROUND Button</b> 	<ul style="list-style-type: none"> <li>• To set virtual surround on/off</li> </ul>	<ul style="list-style-type: none"> <li>• To set virtual surround on/off</li> </ul>	<p>—</p>
<b>SEARCH MODE Button</b> 	<ul style="list-style-type: none"> <li>• To search chapter or time</li> <li>• To rapidly return to a location of disc</li> <li>• To search the chapter markers</li> </ul>	<ul style="list-style-type: none"> <li>• To search track or time</li> <li>• To rapidly return to a location of disc</li> <li>• To search the track markers</li> </ul>	<ul style="list-style-type: none"> <li>• To call up the index or time search menu</li> </ul>
<b>OPEN/CLOSE/EJECT Button</b> 	<ul style="list-style-type: none"> <li>• To open or close the disc tray</li> </ul>	<ul style="list-style-type: none"> <li>• To open or close the disc tray</li> </ul>	<ul style="list-style-type: none"> <li>• To eject the video cassette from the VCR</li> </ul>
<b>NUMBER Buttons</b> 	<ul style="list-style-type: none"> <li>• To select chapter directly</li> </ul>	<ul style="list-style-type: none"> <li>• To select track directly</li> </ul>	<ul style="list-style-type: none"> <li>• To select channel.</li> <li>• The +10 button cannot be used in VCR mode.</li> </ul>

## Tour of the Remote Control

	DVD	CD	VCR
<b>CLEAR/C.RESET Button</b> 	<ul style="list-style-type: none"> <li>To clear the chapter makers.</li> <li>To clear the number that is entered incorrectly</li> </ul>	<ul style="list-style-type: none"> <li>To clear the track makers</li> <li>To remove the most recently entered program</li> <li>To clear the number that is entered incorrectly</li> </ul>	<ul style="list-style-type: none"> <li>To exit the VCR menu</li> <li>To reset the tape counter</li> </ul>
<b>MENU Button</b> 	<ul style="list-style-type: none"> <li>To bring up the Menu on a disc</li> </ul>	—	<ul style="list-style-type: none"> <li>To call up the VCR menu</li> </ul>
<b>TOP MENU Button</b> 	<ul style="list-style-type: none"> <li>To bring up the DVD's main menu</li> </ul>	—	—
<b>RETURN Button</b> 	<ul style="list-style-type: none"> <li>To return to a previous menu</li> </ul>	—	—
<b>ENTER/Arrow Button (UP/DOWN or LEFT/RIGHT Button)</b> 	<ul style="list-style-type: none"> <li>To move the cursor and determine its position</li> </ul>	<ul style="list-style-type: none"> <li>To move the cursor and determine its position</li> </ul>	<ul style="list-style-type: none"> <li>To select an item on the VCR menu</li> <li>To move to the next VCR menu</li> <li>To go back one step during clock and timer setting</li> </ul>
<b>SETUP Button</b> 	<ul style="list-style-type: none"> <li>To bring up the DVD Setup menu</li> </ul>	<ul style="list-style-type: none"> <li>To bring up the DVD Setup menu</li> </ul>	—
<b>SKIP Buttons</b> 	<ul style="list-style-type: none"> <li>To skip Chapters</li> </ul>	<ul style="list-style-type: none"> <li>To skip Tracks</li> </ul>	—
<b>CH Buttons</b> 	—	—	<ul style="list-style-type: none"> <li>To change channels.</li> <li>To adjust the tracking manually during playback</li> </ul>
<b>SEARCH Buttons</b> 	<ul style="list-style-type: none"> <li>To search forward/backward through a disc</li> </ul>	<ul style="list-style-type: none"> <li>To search forward/backward through a disc</li> </ul>	<ul style="list-style-type: none"> <li>To search forward/backward through a tape</li> </ul>
<b>STOP Button</b> 	<ul style="list-style-type: none"> <li>To stop playback</li> </ul>	<ul style="list-style-type: none"> <li>To stop playback</li> </ul>	<ul style="list-style-type: none"> <li>To stop playback or record</li> </ul>
<b>PLAY Button</b> 	<ul style="list-style-type: none"> <li>To begin disc play</li> </ul>	<ul style="list-style-type: none"> <li>To begin disc play</li> </ul>	<ul style="list-style-type: none"> <li>To begin tape play</li> </ul>
<b>PAUSE/STEP Button</b> 	<ul style="list-style-type: none"> <li>To pause disc play</li> <li>To advance playback one frame at a time</li> </ul>	<ul style="list-style-type: none"> <li>To pause disc play</li> </ul>	<ul style="list-style-type: none"> <li>To pause tape play or record</li> <li>To advance playback one frame at a time</li> </ul>
<b>DVD Button</b> 	<ul style="list-style-type: none"> <li>To select the DVD output mode</li> <li>To use the remote control in DVD mode</li> </ul>	<ul style="list-style-type: none"> <li>To select the DVD output mode</li> <li>To use the remote control in DVD mode</li> </ul>	—
<b>DISC NAVIGATION Button</b> <b>VCR/TV Button</b> 	<ul style="list-style-type: none"> <li>To display the first scenes of each chapter of the title being played</li> </ul>	—	<ul style="list-style-type: none"> <li>To select VCR or TV position</li> </ul>
<b>VCR Button</b> 	—	—	<ul style="list-style-type: none"> <li>To select the VCR output mode</li> <li>To use the remote control in VCR mode</li> </ul>
<b>SLOW Button</b> 	—	—	<ul style="list-style-type: none"> <li>To view the tape in slow motion</li> </ul>
<b>SPEED Button</b> 	—	—	<ul style="list-style-type: none"> <li>To select the recording speed</li> </ul>
<b>REC/OTR Button</b> 	—	—	<ul style="list-style-type: none"> <li>To start a recording or One Touch Recording.</li> </ul>

## FROM PANEL DISPLAY

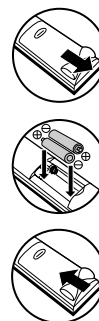


## DISPLAYS DURING OPERATION

	No disc inserted or cannot read the disc
	Tray open
	Tray closed
	Loading the Disc
	When a disc is being Play back

## LOADING THE BATTERIES

1. Open the battery compartment cover.
2. Insert two AA batteries, with each one oriented correctly.
3. Close the cover.



### Notes

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

## VCR/DVD SWITCHING

Since this product comprises VCR and DVD players, it is necessary to select the correct output mode.

### SWITCHING TO VCR MODE

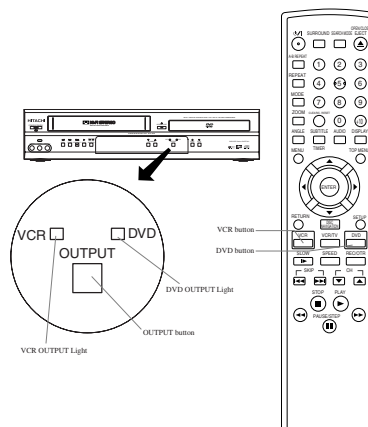
Press VCR on the remote control.  
(Verify that the VCR OUTPUT Light is lit.)

### SWITCHING TO DVD MODE

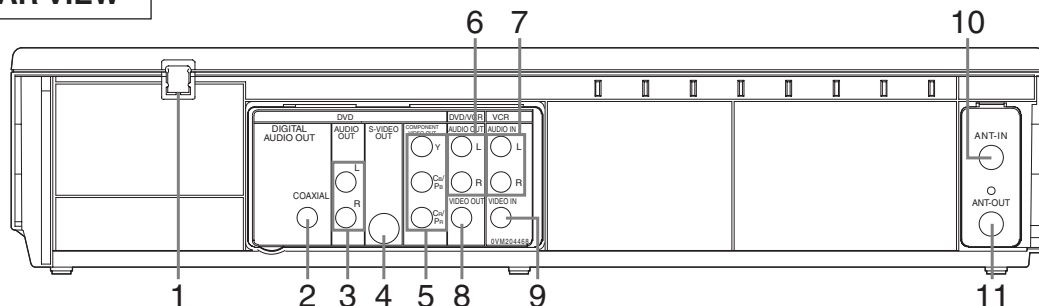
Press DVD on the remote control.  
(Verify that the DVD OUTPUT Light is lit.)

### Notes

- Pressing only OUTPUT on the front panel does not switch the mode of the remote control. You always need to select the correct mode on the remote control too.



## REAR VIEW



### 1. AC Power Cord

Connect to a standard AC outlet to supply power to the DVD/VCR.

### 2. COAXIAL Jack (DVD only)

Use coaxial digital audio out to connect to a compatible Dolby Digital receiver. Use to connect to a Dolby Digital decoder or DTS decoder.

### 3. DVD AUDIO OUT Jacks (DVD only)

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment (DVD only).

### 4. S-VIDEO OUT Jack (DVD only)

Connect an optional S-Video cable here and to the S-Video In jack of a television.

### 5. COMPONENT VIDEO OUT Jacks (DVD only)

Connect optional component video cables here and to the component Video In jacks of a television.

### 6. DVD/VCR AUDIO OUT Jacks

Connect the supplied audio cables here and to the Audio In jacks of a television or other audio equipment.

### 7. AUDIO IN Jacks (VCR only)

Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.

### 8. DVD/VCR VIDEO OUT Jack

Connect the yellow video cable (supplied) here and to the TV's Video In jack.

### 9. VIDEO IN Jack (VCR only)

Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio-visual source (laser disc player, video disc player, etc.) here.

### 10. ANT-IN (Antenna In) Jack

Connect your antenna, RF INPUT Cable Box, or Direct Broadcast System.

### 11. ANT-OUT (Antenna Out) Jack

Use the supplied RF coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

### Notes

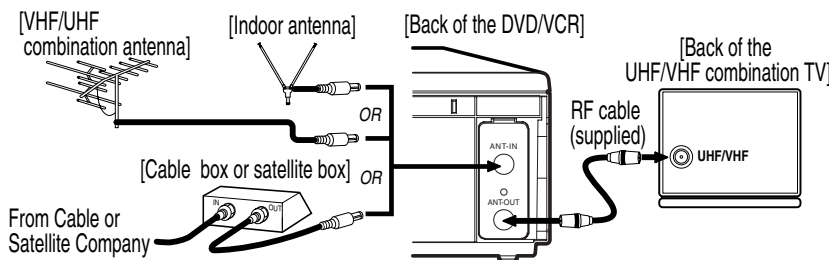
- The S-VIDEO OUT jack, COAXIAL jack and COMPONENT VIDEO OUT jack are only useful in DVD mode.

### CAUTION:

- Be sure to turn off the DVD/VCR and equipment to be connected before connecting.
- Read through the operation manual for the equipment to be connected.
- Be sure that the colors of the jacks and plugs match up when using VIDEO/AUDIO cables.
- Be sure to keep the DVD/VCR connection cables separate from the TV antenna cable when you install the DVD/VCR, because it may cause electrical interference when you are watching television programs.
- DTS audio cannot be produced with an analogue connection.

## DVD/VCR TO TV CONNECTION

1. Disconnect the AC power cord of the TV from the AC outlet.
2. Disconnect the antenna or cable from the TV.
3. Connect the antenna or cable to the ANT-IN jack of the DVD/VCR.
4. Connect the DVD/VCR to the TV using the RF cable.
5. Plug the AC power cords of the DVD/VCR and TV into the AC outlets.



### Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground should be connected to the grounding system of the building, as close to the point of cable entry as practical.

## RF OUTPUT CHANNEL

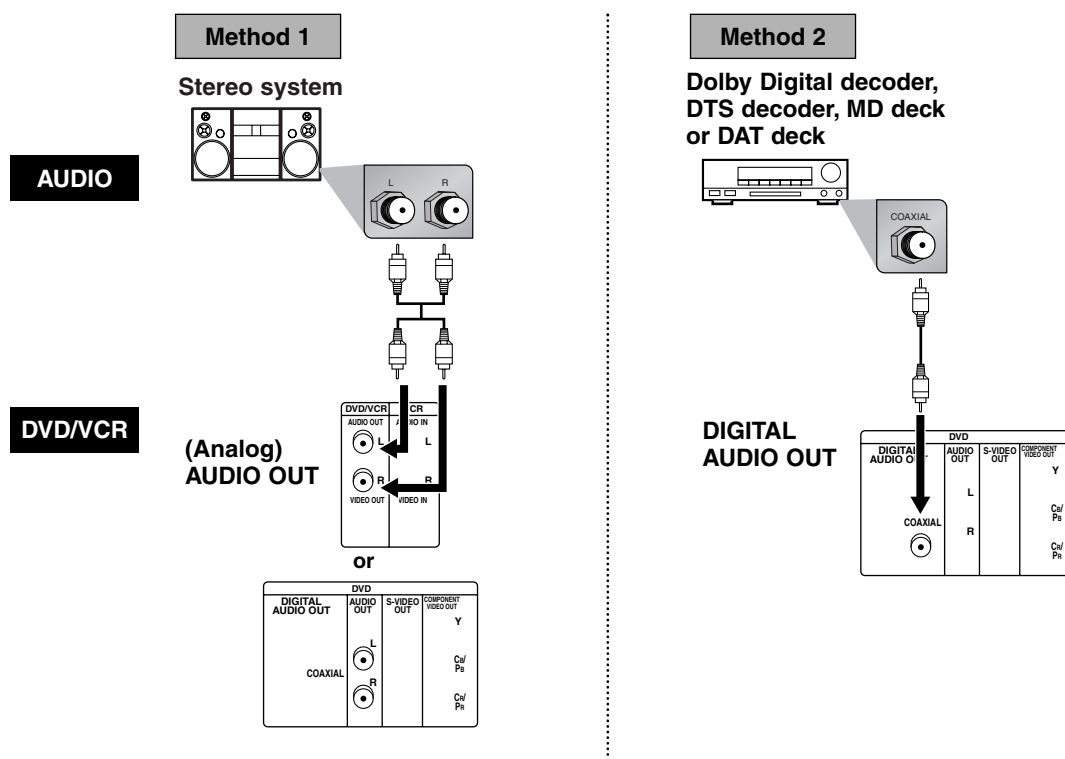
### If your TV does not have A/V terminals:

1. Connect the DVD/VCR to a TV using RF cable (see DVD/VCR TO TV CONNECTION).
2. Select channel 3 on your TV.
3. Insert a pre-recorded tape into the unit.
4. Press OUTPUT on the DVD/VCR.
  - If VCR OUTPUT light lights up and “VCR” appears on the front panel display. If not, press DVD/VCR on the remote control.
5. Press PLAY.
  - If noise appears, it means channel 3 is already occupied for broadcasting. In such case, change the RF output channel of the DVD/VCR to channel 4 with the following steps.

**If channel 3 is already occupied for broadcasting,**

1. Press **PLAY** once.
2. After a few seconds, press **PLAY** button on the DVD/VCR for 3 seconds.
  - The RF output channel will be changed to channel 4 and you will see a playback picture. “ch4” appears in the front panel display.
  - If a picture does not appear, repeat these steps.
  - If there is a power failure or the DVD/VCR is unplugged for more than 30 seconds, the RF output channel setting will return to channel 3.

## CONNECTION TO AN AUDIO SYSTEM



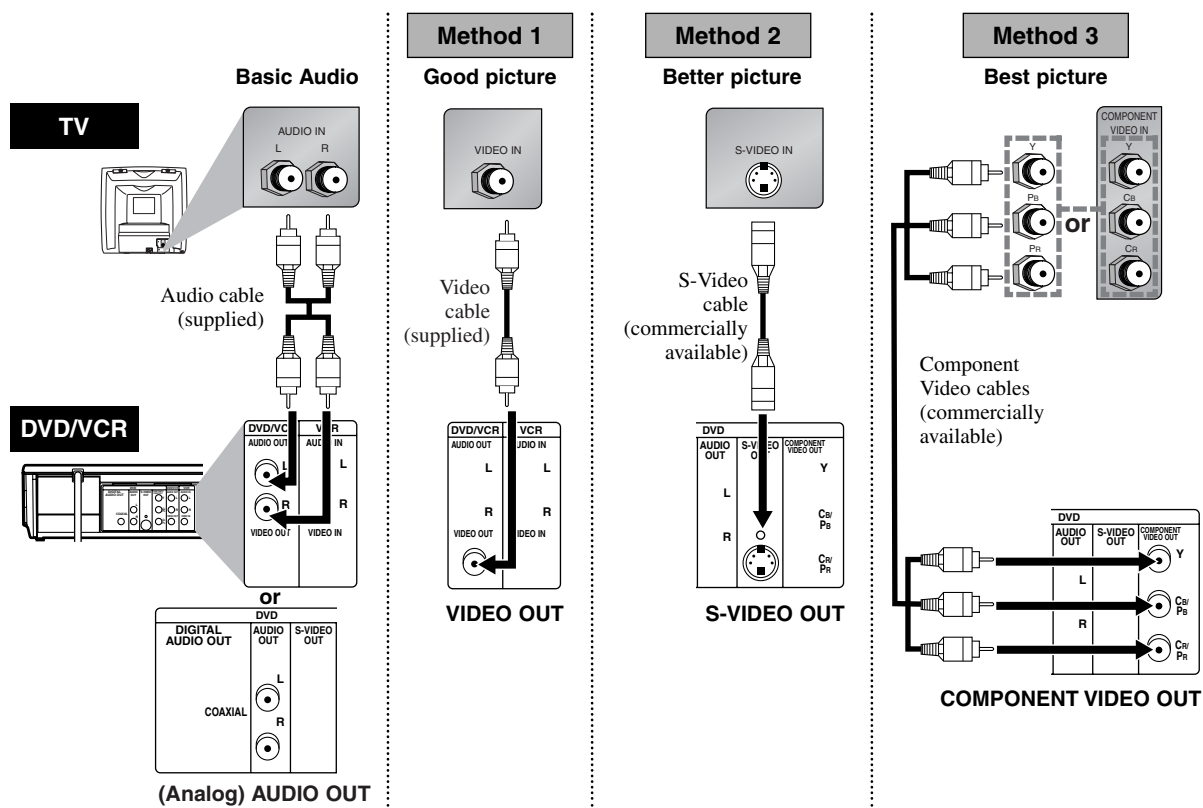
- **Method 1** DVD/VCR + Stereo system
- **Method 2** DVD/VCR + Dolby Digital decoder or DTS decoder

## Notes

- When using a AV amplifier with a built in decoder (AV control centre) or Dolby Digital or DTS decoder as shown in the Method 2, set “DOLBY DIGITAL” or “DTS” to “BITSTREAM” accordingly for audio output in the setup mode. (See page 29.) Set “DOLBY DIGITAL” to “PCM” or “DTS” to “OFF” if the decoder is not used. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers.
- The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- Set “Dolby Digital” to “PCM” and “DTS” to “OFF” for audio output in the setup mode for connecting to an MD deck or DAT deck. (See page 29.)



## CONNECTION TO A TV (FOR VIDEO)



- **Method 1** DVD/VCR + TV with Video Input Jack
- **Method 2** DVD/VCR + TV with S-Video Input Jack
- **Method 3** DVD/VCR + TV with Component Video Jacks

### Notes

- Connect the DVD/VCR directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- The COAXIAL, DVD AUDIO OUT, S-VIDEO OUT, and COMPONENT VIDEO OUT jacks are only useful in DVD mode.

# SETUP

## AUTOMATIC CHANNEL SET UP

### VCR

You can automatically program the tuner to scan only the channels you receive in your area.




- Channel memory programming is NOT needed when you connect the DVD/VCR to a cable box or a satellite box as in "DVD/VCR TO TV CONNECTION" on page 14. In this case, select channel 3 on your TV. Then, the channel you want to record or view may be selected at the cable box or satellite box.
- If noise appears, change the RF output channel of the DVD/VCR to channel 4 by pressing PLAY for 3 seconds during playback. Then select the same channel (CH4) on your TV.
- Follow the steps below once. Repeat only if there is a power failure or if the DVD/VCR is unplugged for more than 30 seconds. (In these cases, the programmed channels are erased.)
- You must follow the steps below before attempting to play or record a video tape. If you want to play or record a video tape BEFORE programming the tuner, you can cancel it by pressing CLEAR/C.RESET.

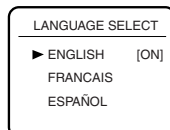
**1** You need to connect the antenna or cable to the DVD/VCR first. Then, connect the DVD/VCR power plug to a standard AC outlet.

**2** Turn on the TV and set the TV to channel 3.

- If noise appears, change the RF output channel of the VCR to channel 4 by pressing PLAY for 3 seconds during playback. Then select the same channel (CH4) on your TV. (See "RF Output Channel" on page 14 for more details.)

**3** Turn on the DVD/VCR by pressing .

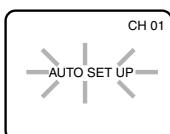
**4** Select the On Screen Language ("ENGLISH", "FRANCAIS" or "ESPAÑOL") by pressing  or . Then, press .




**5** Begin channel preset by pressing  once.

The tuner scans and memorizes all active channels in your area.



- The DVD/VCR distinguishes between standard TV channels and cable channels.



**6** After scanning, the tuner stops on the lowest memorized channel. The TV screen returns to TV mode.

- If "AUTO SET UP" appears on the TV screen again, check the cable connections. Press  once again and the DVD/VCR will begin preset again.

### TO SELECT A DESIRED CHANNEL

You can select the desired channel by using CH (/) or by directly entering channel numbers using the Number buttons.

#### Note for using the Number buttons:

- When selecting cable channels which are higher than 99, enter channel numbers as a three-digit number. (For example: 117, press 1,1,7)
- You must precede single-digit channel numbers with a zero (For example: 02, 03, 04 and so on).

### TO PRESET THE CHANNELS AGAIN

**1** Press MENU until the main menu appears.

**2** Select "CHANNEL SET UP" by pressing  or . Then, press .

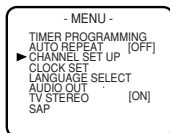
**3** Select "AUTO SET UP" by pressing  or . Then, press .

- After scanning, the tuner stops on the lowest memorized channel.

## TO ADD/DELETE CHANNELS

When scanning, some channels may be skipped due to a weak signal. In such cases, you can add the channels to the DVD/VCR memory manually.

- 1 Press MENU until the main menu appears.



- 2 Select "CHANNEL SET UP" by pressing ▲ or ▼. Then, press ►.
- 3 Select "MANUAL SET UP" by pressing ▲ or ▼. Then, press ►.
- 4 Enter the desired channel number by pressing ▲ or ▼.
- 5 Add or Delete it from memory by pressing ► or ◀ so that "ADD" or "DELETE" flashes on the TV screen accordingly.
- 6 Exit the Preset mode by pressing CLEAR/C.RESET.

## TO CHANGE THE ON-SCREEN LANGUAGE

VCR

- 1 Press MENU repeatedly until the main menu appears.
  - 2 Select "LANGUAGE SELECT" by pressing ▲ or ▼. Then, press ►.
  - 3 Select "ENGLISH", "FRANCAIS" or "ESPAÑOL" by pressing ▲ or ▼. Then, press CLEAR/C.RESET.
- If you accidentally select Spanish or French and need English: Press MENU and choose SELEC. IDIOMA, or SELECTION LANGUE. Press ►, and select ENGLISH by pressing ▲ or ▼. Finally, press CLEAR/C.RESET.

## CLOCK SET UP

VCR

- 1 Select main menu by pressing MENU.
- If the clock is not set, the CLOCK SET menu appears first. In this case, follow step [3].

- 2 Select "CLOCK SET" by pressing ▲ or ▼. Then, press ►.

- 3 Set the clock.

### 1) Set the month

Press ▲ or ▼ repeatedly.  
Then, press ►.

### 2) Set the day

Press ▲ or ▼ repeatedly.  
Then, press ►.

### 3) Set the year

Press ▲ or ▼ repeatedly.  
Then, press ►.  
The day of the week will appear automatically.

### 4) Set the hour

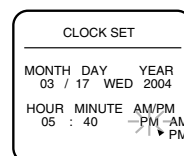
Press ▲ or ▼ repeatedly.  
Then, press ►.

### 5) Set the minute

Press ▲ or ▼ repeatedly.  
Then, press ►.

### 6) Set AM or PM

Press ▲ or ▼ repeatedly.



- To go back one step, press ◀.

- 4 Start the clock by pressing CLEAR/C.RESET or ►.

# PLAYBACK FUNCTION

## NORMAL PLAYBACK

VCR

### 1 Insert a prerecorded tape. The DVD/VCR will turn on.

- If the safety tab has been removed, the DVD/VCR will start playback automatically.
- If a cassette is in DVD/VCR, STOP symbol appears in TV screen when turning on the DVD/VCR(VCR mode), and "∞" appears in the front panel display.



### 2 Turn on the TV and set the TV to channel 3.

- If noise appears, change the RF output channel of the DVD/VCR to channel 4 by pressing PLAY for 3 seconds during playback. Then select the same channel (CH4) on your TV. (See "RF Output Channel" on page 14 for more details.)
- If you connect a TV to the DVD/VCR using AV cable, set the TV to channel AUX. (VIDEO)

### 3 Begin playback by pressing PLAY.

- Tracking adjustment will be done automatically (Digital Tracking function) when you start playback. To adjust the tracking manually, press SKIP/CH on the remote or CHANNEL (▲/▼) on the DVD/VCR.
- When a tape has reached the end, the DVD/VCR will rewind the tape to the beginning and eject the tape automatically.

### 4 To stop playback, press STOP.

- If no corresponding symbols appear on the display when you press buttons such as PLAY, REC/OTR, ►► or ◄◄, that means no cassette tape is in the DVD/VCR. Please insert a tape.

## Counter Reset

- You can reset the counter by pressing CLEAR/C.RESET on the remote control.

## STILL/SLOW

You can freeze the picture on TV screen by pressing PAUSE/STEP during playback.

- You can advance the picture one frame at a time by pressing PAUSE/STEP during the Still mode.
- You cannot manually adjust the tracking of a still picture. However, if the picture begins to vibrate vertically during the still mode, you can stabilize the picture by pressing CH (▲/▼).
- If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV, if so equipped.
- You can watch in the slow motion by pressing SLOW during playback or the still mode.
- If a noise bar appears on the TV screen, you can reduce it by pressing CH (▲/▼).
- After the DVD/VCR has been in Still/Slow mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.
- To return to playback, press PLAY.

## AUTO REPEAT PLAYBACK

VCR

This feature allows you to play a tape over and over.

### 1 Select main menu by pressing MENU.

### 2 Select "AUTO REPEAT" by pressing ▲ or ▼.

### 3 Begin auto repeat playback by pressing ► so that ON appears next to "AUTO REPEAT".

- If the on-screen menu still remains, press CLEAR/C.RESET to exit the menu.
- To cancel the Auto repeat mode, press ► at step [3] so that OFF appears next to "AUTO REPEAT".

## SEARCH FUNCTIONS

VCR

### PICTURE SEARCH

If you want to skip or repeat a scene during playback, press ►► or ◄◄.

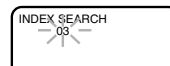
- Press it again and the DVD/VCR will now search at super high speed. (in the LP/SLP modes only).

### INDEX SEARCH

An index mark will be assigned at the beginning of each recording you make. You may skip to a specific marked point by following the steps below.

### 1 Press SEARCH MODE so that the Index Search menu appears.

### 2 Enter the number of recordings you wish to skip by pressing ▲ or ▼ within 30 seconds.



### 3 Press ► or ◄ to start index search.

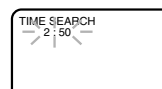
- If you want to go in the forward direction, press ►.
- If you want to go in the reverse direction, press ◄.
- If you want to stop search function, press STOP.
- After index search, the DVD/VCR will play the tape automatically.

### TIME SEARCH

This feature allows you to go to a specific point on a tape by entering the exact amount of time you wish to skip in order to reach the point.

### 1 Press SEARCH MODE so that the Time Search menu appears.

### 2 Enter your desired time to skip by pressing ▲ or ▼ within 30 seconds.



### 3 Press ► or ◄ to start time search.

- If you want to go in the forward direction, press ►.
- If you want to go in the reverse direction, press ◄.
- If you want to stop search function, press STOP.
- After time search, the DVD/VCR will play the tape automatically.

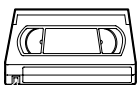
# RECORDING FUNCTION

## VCR

It may be UNLAWFUL to record copyrighted material without the consent of the copyright owner.

### Accidental Erasure Prevention

To prevent accidental recording on a recorded cassette, remove its record safety tab. To record on it later, cover the hole with cellophane tape.



### Before recording, make sure:

- The desired channel is selected by pressing the Number buttons on the remote control or CHANNEL (▲/▼). (If you connected the DVD/VCR to a cable box or satellite box as in "DVD/VCR TO TV CONNECTION" on page 13, select channel 3 on your TV. Then, select the channel you want to record with the cable box or satellite box. In this case, you can ONLY record and view the SAME channel.)
- If noise appears, change the RF output channel of the DVD/VCR to channel 4 by pressing PLAY for 3 seconds during playback. Then select the same channel (CH4) on your TV.
- There is a tape with a safety tab in the DVD/VCR.
- The desired recording speed is selected in SP (standard play) or SLP (super long play) mode by pressing SPEED on the remote control.
- TV STEREO or SAP is selected.

Tape Speed		Recording/Playback Time		
Type of tape		T60	T120	T160
SP mode		1 hour	2 hours	2-2/3 hours
SLP mode		3 hours	6 hours	8 hours

## NORMAL RECORDING

## VCR

- 1 Begin the recording by pressing REC/OTR. The REC Light lights up and "REC" appears in the front panel display.
- To temporarily stop recording or to resume it, press PAUSE/STEP. After the DVD/VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.

- 2 Press STOP when the recording is completed.

### Note

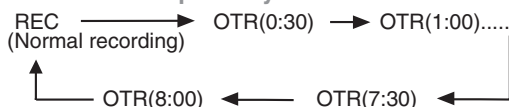
- While you are recording on the DVD/VCR, press the VCR/TV button so that the "VCR" in the display panel disappears on the DVD/VCR.

## OTR (One Touch Recording)

## VCR

This feature allows you to set the recording length simply by pressing REC/OTR.

- 3 Press REC/OTR to begin OTR. "REC" and "☐" appear in the front panel display. Change the recording length by pressing REC/OTR repeatedly.



- If a tape ends during OTR, the DVD/VCR will stop, eject the tape, and switch to the DVD mode automatically as the TIMER light blinks. (If the DVD power is off, the VCR will go into the STANDBY mode).
- When OTR is finished, the VCR turns off automatically. To use the VCR again, press TIMER on the remote, or STOP/EJECT on the DVD/VCR.

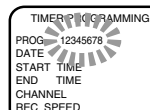
## TIMER RECORDING

## VCR

You may set the DVD/VCR to start recording while you are away. You can set eight programs to record on specific days, daily or weekly within 1 year period.

If you have not yet set the clock, "CLOCK SET" appears. If so, follow the steps [3] and [4] in "CLOCK SET" section on page 18. Then, set the timer recording.

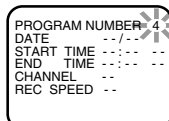
- 1 Insert a tape with its safety tab into the DVD/VCR.
- 2 Select main menu by pressing MENU.
- 3 Select "TIMER PROGRAMMING" by pressing ▲ or ▼. Then, press ►. The set up screen is displayed.



- 4 Set the timer.
- To go back one step, press ◀.

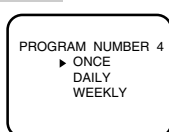
### 1) Set the program number (1-8)

Program number which is not set up flashes. Press ▲ or ▼ repeatedly for the desired program number. Then, press ►.



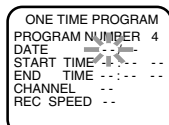
### 2) Set the frequency of the recording

**For once:** Press ▲ or ▼ to point to "ONCE".  
**For daily (Monday~Friday):** Press ▲ or ▼ to point to "DAILY".  
**For weekly:** Press ▲ or ▼ to point to "WEEKLY". Then, press ►.



### 3) Set the date

First, press ▲ or ▼ for the month. Then, press ►. Next, press ▲ or ▼ for the day. Then, press ►.



#### 4) Set the start time

First, press ▲ or ▼ for the hour. Then, press ►. Next, press ▲ or ▼ for the minute. Then, press ►. And then, press ▲ or ▼ for AM or PM. Then, press ►.

ONE TIME PROGRAM  
PROGRAM NUMBER 4  
DATE 05/12 WED  
START TIME 07:30 PM  
END TIME 09:30 PM  
CHANNEL  
REC SPEED --

#### 5) Set the end time

Follow the instructions of "Set the start time" to set the end time.

ONE TIME PROGRAM  
PROGRAM NUMBER 4  
DATE 05/12 WED  
START TIME 07:30 PM  
END TIME 09:30 PM  
CHANNEL  
REC SPEED --

#### 6) Set the channel number

Press ▲ or ▼ repeatedly for the desired channel number. Then, press ►.

ONE TIME PROGRAM  
PROGRAM NUMBER 4  
DATE 05/12 WED  
START TIME 07:30 PM  
END TIME 09:30 PM  
CHANNEL  
REC SPEED --

If you connected the DVD/VCR to a cable box or satellite box as in "DVD/VCR TO TV CONNECTION" on page 14, select the DVD/VCR to channel 3 or 4 the same channel as RF output channel of the DVD/VCR. Then, select the channel you want to record on the cable box or satellite box. Leave the cable box or satellite box on for timer recording.

#### 7) Set the tape speed

Press ▲ or ▼ repeatedly for the desired tape speed. Then, press ►.

ONE TIME PROGRAM  
PROGRAM NUMBER 4  
DATE 05/12 WED  
START TIME 07:30 PM  
END TIME 09:30 PM  
CHANNEL  
REC SPEED SP  
SLP

**5 To set another program, repeat step [4]. To exit, press CLEAR/C.RESET.**

#### 6 Press TIMER to set the timer.

- The TIMER light on the DVD/VCR lights up, and "REC" and "⏏" appear in the front panel display.
- TIMER RECORDING WILL NOT BE ACTIVATED UNLESS YOU PRESS TIMER.**

## HINTS FOR TIMER RECORDING

### VCR

- If there is a power failure or the DVD/VCR is unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If a tape ends during timer recording, the DVD/VCR will stop, eject the tape, and switch to the DVD mode automatically as the TIMER light lights up on the DVD/VCR and "REC" and "⏏" in the front panel display flash. (If the DVD is not in use, the VCR will be on STANDBY mode).
- If a tape is not in the DVD/VCR or does not have a safety tab, the TIMER light flashes and timer recording will not operate. Please insert a recordable tape.
- When all timer recordings are finished, the TIMER light will flash. To use the DVD/VCR again as usual, press TIMER to disable the flashing TIMER light, "REC", and "⏏", then press VCR/TV to select the VCR position. Select either VCR or DVD mode, then continue with the other features as described in this manual.

- When timer recordings are set, the TIMER light will light up, and "REC" and "⏏" will appear in the front panel display. To use the DVD/VCR as usual until the time of the recording, press TIMER so that the TIMER light turns off and "REC" and "⏏" disappear. Press VCR/TV to choose the VCR position. Select either VCR or DVD mode, then continue with the other features as described in this manual.

*If you want to use the DVD player during a timer recording or while the TIMER light, "REC" and "⏏" are on or flash.*

- You can use the DVD player while the TIMER light, "REC" and "⏏" are on or flashes, or during a timer recording. Press ⏏/I to turn on the DVD/VCR. Press DVD on the remote control to choose DVD mode, then continue with the other DVD features as described in this manual. You don't have to set the TIMER off to use the DVD only.

### TO STOP AN AUTOMATIC TIMER PROGRAM ALREADY STARTED

Press STOP/EJECT on the DVD /VCR.

### TO CHECK, CORRECT, OR CANCEL AN AUTOMATIC TIMER PROGRAM

#### 1 Press TIMER.

- If the power of the DVD/VCR is off, press ⏏/I instead of TIMER, then go on to the next step.
- If the DVD output mode is selected, you have to switch it to the VCR mode by pressing the VCR on the remote control or the OUTPUT on the DVD/VCR.

#### 2 Select main menu by pressing MENU.

#### 3 Select "TIMER PROGRAMMING" by pressing ▲ or ▼. Then, press ►.

#### 4 Select the program number you want to check by pressing ▲ or ▼.

- The details of the selected program appears on the TV screen.
- Go to the digit you want to change by pressing ► or ◀. Then, enter correct numbers by pressing ▲ or ▼.
- You may cancel the entire program by pressing ◀ while the program number flashes.

#### 5 Press CLEAR/C.RESET to exit.

#### 6 Press TIMER to return to timer stand-by mode.



## SPECIAL FEATURES

### COPYING A VIDEO TAPE

#### VCR

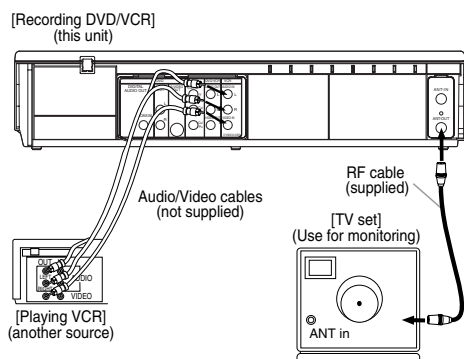
You can make copies of video tapes made by friends or relatives for your enjoyment.

#### Warning:

Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.

Connect the recording DVD/VCR (this unit), the playing VCR (another source) and your TV using the following diagram.

- You can use the AUDIO/VIDEO input jacks on the front panel of the DVD/VCR instead of using the jacks on the back.



- Insert a pre-recorded tape into the playing VCR.
- Insert a tape with a safety tab into the recording DVD/VCR.
- Press **SPEED** on the recording DVD/VCR to select the desired recording speed (SP/SLP).
- Select the "L1" or "L2" position on the recording DVD/VCR by pressing the **CHANNEL** (▲/▼).

- When you use the A/V input jacks on the back of the DVD/VCR, select "L1" position by pressing [0], [0], [1] or the **CHANNEL** (▲/▼) on the DVD/VCR.
- When you use the A/V input jacks on the front of the DVD/VCR, select "L2" position by pressing [0], [0], [2] or the **CHANNEL** (▲/▼) on the DVD/VCR.

#### Note

"L1" and "L2" are found before the lowest memorized channel. (Example: CH2)

- Press **REC/OTR** on the recording DVD/VCR.
- Begin playback of the tape in the playing VCR.

- For best results during dubbing, use the DVD/VCR's front panel controls whenever possible. The remote control might affect the playing VCR's operation.

- Always use video-quality shielded cables with RCA-type connectors. Standard audio cables are not recommended.
- You can use a video disc player, satellite receiver, camcorder or other audio/video component with A/V outputs in place of the playing VCR.

### TO MONITOR THE RECORDING

- Turn on the TV and set the TV to channel 3.

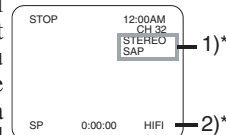
- If noise appears, change the RF output channel of the DVD/VCR to channel 4 by pressing **PLAY** for 3 seconds during playback. Then select the same channel (CH4) on your TV. (See "RF Output Channel" on page 14 for more details).

- Press **VCR/TV** on the remote control of the recording DVD/VCR.

### MTS (Multi-Channel Television Sound) SYSTEM

#### VCR

When you play a VHS tape, or receive a broadcast on the DVD/VCR tuner channel you are watching, the current status will appear when you press **DISPLAY** on the remote control. When you record a MTS broadcast signal, you need to set it to MTS mode.



- Press **MENU** and select "TV STEREO" or "SAP" by pressing ▲ or ▼. Then, press ►. To exit, press **CLEAR/C.RESET**.

- Although a program may be broadcast in both stereo and sub audio, you must select the Recording mode to TV STEREO or SAP before you record a broadcast.

- Press **MENU** and select "AUDIO OUT" by pressing ▲ or ▼. Then, press ►. Next, select "HIFI" or "MONO" by pressing ▲ or ▼. To exit, press **CLEAR/C.RESET**.

- While the DVD/VCR is set in HIFI stereo mode, HIFI appears on the TV screen. While the DVD/VCR is set in monaural (MONO) mode, HIFI disappears from the TV screen.

### MTS RECORDING/MONITOR MODE

Type of broadcast	Display on the TV screen	STEREO/SAP Selection	Hi-Fi audio track (2-channel)		Normal audio track
			L-channel	R-channel	
Regular (monaural audio)	-None-	-Invalid-	Mono	Mono	Mono
Stereo broadcast	STEREO	-Invalid-	L	R	L+R
Bilingual broadcast	SAP	TV STEREO*	Main audio program	Main audio program	Main audio program
		SAP*	Sub audio program	Sub audio program	Sub audio program
Stereo & Bilingual broadcast	STEREO SAP	TV STEREO*	L	R	L+R
		SAP*	Sub audio program	Sub audio program	Sub audio program

\*You must select the recording mode to TV STEREO or SAP before you record a broadcast.

## AUTO REWIND

When a tape reaches the end during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the DVD/VCR will eject the tape and switch itself off.

- The DVD/VCR will not rewind the tape automatically during timer recording or One Touch Recording.

## REAL TIME TAPE COUNTER

- The elapsed recording or play time (in hours, minutes, and seconds) will be displayed on the TV display. No time is displayed when playing back the blank portion of the cassette.

## PLAYING A DISC

### BASIC PLAYBACK

DVD

CD

MP3

JPEG

#### Getting started

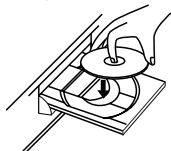
- Turn on the power of the TV, amplifier and any other components which are connected to the DVD/VCR.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.
- Select DVD mode by pressing DVD on the remote control or output on the front panel. The DVD OUTPUT light lights up.

#### 1 Press .

- “Load” will appear briefly in the front panel display.
- Check that the DVD OUTPUT Light is lit. If not, press DVD on the Remote control to switch to DVD mode.

#### 2 Press OPEN/CLOSE to open disc loading tray.

#### 3 Place the chosen disc in the tray, with the label facing up.




#### 4 Press PLAY.

- The tray will close automatically, and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, press PLAY.
- When you playback the DVD with a title menu, it may appear on the screen. In this case, refer to “TITLE MENU” on page 23.

#### 5 Press STOP to stop playback.





#### Notes

- A prohibited icon “” may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD/VCR or the disc.
- With DVDs that use titles for playback program signals, playback may start from the second title, or it may skip these titles.
- During the playback of a two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.

- If a disc is dirty or has scratches, the pictures may appear distorted and the playback operation may stop. In such cases, clean the disc and unplug the power cord and then plug it again before resuming playback.

### GENERAL FEATURES

DVD

DVD may contain menus to navigate the disc and access special features. Press appropriate Number button or use Arrow () to highlight your selection in the DVD main menu and press ENTER to confirm.

#### Note

- Unless stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.

### DISC NAVIGATION




DVD

#### 1 Press DISC NAVIGATION.

DURING TITLE PLAYBACK OR WHEN RESUME IS ON:

- A shot from each chapter including the one currently being played will be displayed on the screen.
  - The chapter currently being played is selected in yellow.
- IN STOP MODE (RESUME OFF):
- The first scene of each chapter of the first title will be displayed.

#### 2 Press Arrow () to select your desired chapter.

- Up to 6 chapters can be displayed at one time. If the title has more than 6 chapters, press SKIP  to go to the next page. Press SKIP  to go back to the previous page.
- You can change the title by moving up to the field where the title number is shown with Arrow () and entering a title number of your choice.

#### 3 Press ENTER or PLAY.

- Playback of the selected chapter will start.

#### Notes

- Pressing DISC NAVIGATION before pressing ENTER or PLAY at step 3 will cease the DISC NAVIGATION function, and the playback will be stopped. The resume information will be lost.
- When a disc menu is shown, the DISC NAVIGATION feature does not function.
- DISC NAVIGATION takes a few seconds to respond.
- With some discs, part of the DISC NAVIGATION screen may not be displayed properly. This is not a malfunction.
- Some discs do not support DISC NAVIGATION feature.
- While the DISC NAVIGATION is on the screen, the sound is muted.
- It takes about 15 seconds to display 6 shots.

## PAUSE

DVD

CD

MP3

JPEG

### 1 During playback, press PAUSE/STEP.

- Playback will pause and sound will be muted.

### 2 To continue playback, press PLAY.

#### Note

- Set STILL MODE to FIELD on the display menu if pictures in the pause mode are blurred. (Refer to page 30.)

## DISC MENU

DVD

### 1 Press MENU.

- The DVD main menu will appear.

### 2 If the feature is not available, symbol may appear on the TV screen.

### 3 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

### 4 Press Arrow (▼/▲/▶/◀) to select an item, and ENTER to confirm selection.

## TITLE MENU

DVD

### 1 Press TOP MENU.

- The title menu will appear.

### 2 If the feature is not available, symbol may appear on the TV screen.

### 3 Press Arrow (▼/▲/▶/◀) to select an item, and ENTER to confirm selection.

## CALLING UP A MENU SCREEN

### DURING PLAYBACK

- Press MENU to call up the DVD menu.
- Press TOP MENU to call up the title menu.

#### Note

- Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

## STEP BY STEP PLAYBACK

DVD

### 1 During playback, press PAUSE/STEP.

- Playback will pause and sound will be muted.

### 2 The disc goes forward by one frame each time PAUSE/STEP is pressed.

### 3 To exit step by step playback, press PLAY.

#### Note

- Set STILL MODE to FIELD on the display menu if pictures during step by step playback are blurred. (Refer to page 30.)

## RESUME

DVD

CD

MP3

JPEG

### 1 During playback, press STOP.

- Resume message will appear on the TV screen.

### 2 Press PLAY, playback will resume from the point at which playback was stopped.

- To cancel resume, press STOP twice.

#### Notes

- The resume information stays on even when the power is turned off.
- For MP3 and JPEG, playback will resume from the beginning of the track at which playback was stopped.

## FAST FORWARD/REVERSE SEARCH

DVD

CD

MP3

### 1 During playback, press ►► or ◀◀ repeatedly to select the required forward or reverse speed.

- For DVDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2),2(x8),3(x50),4(x100).
- For Audio CDs, the approximate speed is x16.
- For MP3, the approximate speed is x8.

### 2 To return to normal playback, press PLAY.

## SLOW FORWARD / SLOW REVERSE

DVD

### 1 During playback, press PAUSE/STEP.

### 2 Press ►► or ◀◀.

- Slow motion playback will begin and sound will be muted.

### 3 Press ►► or ◀◀.

- Slow forward or reverse speed is different depending on the disc. Approximate speed is 1(1/16), 2(1/8), 3(1/2).

### 4 To return to normal playback, press PLAY.

#### Note

- Set STILL MODE to FIELD on the Display menu if pictures in the slow playback mode are blurred. (refer to page 30)

## ZOOM

DVD

JPEG

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

### 1 Press ZOOM during playback.

- Playback will continue.

### 2 Press ZOOM repeatedly to select the required zoom factor: x2, x4 or OFF.

### 3 Use the Arrow (▲/▼/◀/▶) to move the zoomed picture across the screen.

### 4 To exit zoom mode, press ZOOM.

#### Notes

- Zooming function does not work while disc menu is shown.
- x4 zoom is not available on some discs.
- Only x2 zoom is available on JPEG.

## TRACK SEARCH

CD

MP3

JPEG

There are three ways to begin playback on an Audio CD, MP3 or JPEG disc at a specific Track.

#### Using the Number buttons

### 1 Press the Number buttons to enter the desired Track number.

- Playback will start at the selected track.

- For single digit tracks (1-9), press a single number (eg. track 3, press 3).
- To play track 26, press +10, 2, 6 on the Number buttons.

#### Using SEARCH MODE

### 1 Press SEARCH MODE.

- The track search display appears.

### 2 Within 30 seconds, select a desired track number using the Number buttons.

- For single digits press 0 first if the total tracks on the disc are 10 or more.
- Playback will start at the selected track.
- Press CLEAR/C.RESET to erase the incorrect input.

#### Using SKIP ◀◀, ►►

- During playback, press SKIP ►► to move the next track. Press it repeatedly to skip subsequent tracks. Press SKIP ◀◀ to go back to beginning of the current track. Press it repeatedly to go to the previous tracks.
- Track number will appear briefly in the front display panel.
- If SKIP ◀◀ ►► is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

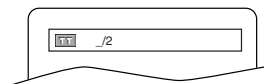
#### Note

- SKIP ◀◀ ►► are not available when playback is stopped.

## TITLE / CHAPTER SEARCH

DVD

### 1 During playback, press SEARCH MODE repeatedly until you see the Title or Chapter search screen.



### 2 Enter the desired chapter/title number using the Number buttons.

- Playback will start at the selected Chapter or Title.
- Press CLEAR/C.RESET to erase the incorrect input.
- For single digits, press 0 first if the total tracks on the disc are 10 or more.

## TIME SEARCH

DVD

CD

### 1 During playback, press SEARCH MODE repeatedly until the Time Search screen appears.

### 2 Within 30 seconds, enter a desired disc time using the Number buttons.

- Playback will start at the specified time.
- Press CLEAR/C.RESET to erase the incorrect input.

#### Note

- When there is no need to enter a number, "0" appears automatically. For example, "0:0\_:\_\_" appears in the Time Search display if the total time of the disc is less than 10 minutes.

## MARKER SETUP SCREEN

DVD

CD

Use markers to memorize your favorite places on a disc.

- 1 Press **SEARCH MODE** repeatedly until Markers appear on the TV screen.
- 2 Press Arrow (◀/▶) to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that “- : - : -” appears in the display.

- 3 When you reach the desired point, press **ENTER**.

- The Title or Track and elapsed playing time will appear in the TV screen.

- 4 To return to the Marker later, press **SEARCH MODE** repeatedly during playback until Makers appears. Use Arrow (◀/▶) to choose the desired marker, then press **ENTER**.

### Notes

- Opening the tray, turning off the power, or selecting AC (ALL CLEAR) then pressing **ENTER** will erase all Markers.
- To clear a marker, using Arrow (◀/▶), position the cursor on to the marker number to be cleared and press **CLEAR/C.RESET**.
- You can mark up to 10 points.

- 5 Press **SEARCH MODE** or **RETURN** to exit.

## REPEAT

REPEAT is available only during playback.

### REPEAT TITLE / CHAPTER

DVD

To activate the repeat function, press **REPEAT** during playback.

- The repeat mode changes as described below every time you press the button.



### Notes

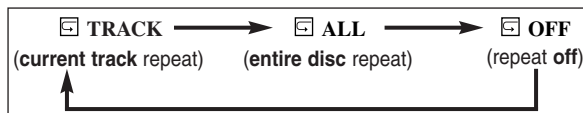
- Track Repeat Title/Chapter is not available on some scenes.
- The REPEAT setting will be cleared when moving to other title or chapter.

## REPEAT TRACK

CD

To activate the repeat function, press **REPEAT** during playback.

- The repeat mode changes as described below every time you press the button.

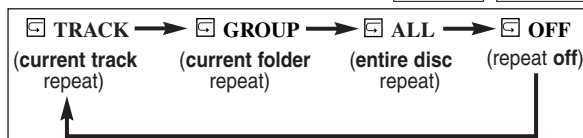


### Notes

- Track repeat setting will be cleared by moving to other track.
- Repeat playback does not function during A-B REPEAT playback.

MP3

JPEG



## A-B REPEAT

DVD

CD

- 1 Press **A-B REPEAT** at your chosen starting point.

- A-B appears briefly on the TV screen.

- 2 Press **A-B REPEAT** again at your chosen end point.

- A-B appears briefly on the TV screen, and the repeat sequence begins.

- 3 To exit the sequence, press **A-B REPEAT**.

### Notes

- The A-B REPEAT section can only be set within the current title (for DVDs), or current track (for audio CDs).
- A-B REPEAT is not available with some scenes on some DVDs.
- To cancel the A point which was set, press **CLEAR/C.RESET**.
- A-B REPEAT playback does not function during title, chapter, track or all repeat playback.



## PROGRAM (CD)

CD

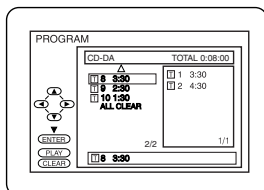
You may determine the order in which tracks will play.

### 1 In stop mode, press MODE.

- The PROGRAM screen will appear.

### 2 Press Arrow (▲/▼) to select a track, then press ENTER.

- Press CLEAR/C.RESET to erase the most recently entered program.



### 3 Press PLAY to play the programmed tracks.

#### Notes

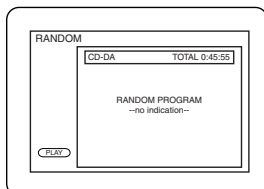
- Press STOP once and then PLAY again, playback will restart from the point where STOP was pressed.
- Press STOP twice and then PLAY. Playback starts from the first track in the original order. However, the program can be called back when you follow the above steps. Your programs will be stored unless either the disc tray is opened or power is turned off.
- Up to 99 programs can be entered.
- To repeat the current track in the program, press REPEAT repeatedly until TRACK appears during playback. To repeat the entire program, press REPEAT repeatedly until ALL appears during playback.
- To erase all programs at once, select ALL CLEAR and press ENTER at step 2.

## RANDOM PLAYBACK (CD)

CD

This shuffles the play order of tracks instead of playback of the original sequence.

### 1 In stop mode, press MODE repeatedly until the RANDOM screen appears.



### 2 Press PLAY to start random playback.

#### Note

- To repeat the current track in the random selection, press REPEAT repeatedly until TRACK appears during playback. To repeat the entire random selection press REPEAT repeatedly until ALL appears during playback.

## MP3 / JPEG PLAYBACK

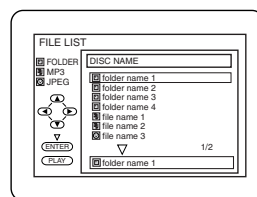
MP3

JPEG

Insert an MP3 or JPEG disc, then press MENU to call up the MP3 menu on the TV screen.

### 1 In stop mode, press Arrow (▲/▼) to select the desired group track.

- If a group is selected, press ► or ENTER to go on to the track selection screen. Press Arrow (▲/▼) to choose a track, then press ► or ENTER.



- If a track is selected, press PLAY or ENTER to start playing tracks. Starting from the one you've just chosen the subsequent tracks will be played.
- Press TOP MENU to return to the first item.

### 2 Press STOP to stop playback.

#### Notes

- Folders are known as Groups; files are known as Tracks.
- Folders are accompanied by icon.
- MP3 files are accompanied by icon.
- JPEG files are accompanied by icon.
- Maximum of 255 folders can be recognized.
- Maximum of 512 files can be recognized.
- Up to 8 hierarchies can be created.

This DVD/VCR recommends the use of files recorded at the below specifications:

- Sampling frequency: 44.1kHz or 48kHz
- Constant bit rate: 112kbps ~ 320kbps.

## SLIDE SHOW MODE

JPEG

You can switch to the slide show mode during playback.

### 1 Press MODE during playback.

- The slide show mode screen will appear.
- The slide show mode cannot be switched when it is stopped, or from the file list screen.

### 2 Press ENTER.

- The slide show mode will change.  
CUT IN/OUT: The entire image appears in one time.  
FADE IN/OUT: The image appears gradually and then disappears.

### 3 Press MODE to exit.



## PROGRAM (MP3 / JPEG)

**MP3** **JPEG**

This feature allows you to program an MP3 or JPEG disc to play in a desired sequence.

### 1 Press **MODE** in the stop mode.

- The PROGRAM screen will appear.

### 2 Press **Arrow (▲/▼)** to select a track, then press **ENTER**, to save it in a program.

- Press **CLEAR/C.RESET** to erase the incorrect input.

### 3 Press **PLAY** to start programmed playback.

#### Note

- To erase all programs at once, select **ALL CLEAR** and press **ENTER** at step 2.

## RANDOM PLAYBACK (MP3 / JPEG)

**MP3** **JPEG**

### 1 In stop mode, press **MODE** repeatedly until the **RANDOM** screen appears.

### 2 Press **PLAY** to play the tracks in random order.

## AUDIO LANGUAGE

**DVD**

The DVD/VCR allows you to select a language (if multiple languages are available) during DVD disc playback.

### 1 Press **AUDIO** during playback.

### 2 Press **AUDIO** repeatedly to select your desired language.

#### Note

- Pressing **AUDIO** may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).

## STEREO SOUND MODE

**CD**

### 1 Press **AUDIO** repeatedly during playback to select between **STEREO**, **L-CH** or **R-CH**.

- **STEREO** - both right and left channels are active (stereo)
- **L-CH** - only left channel is active
- **R-CH** - only right channel is active

#### Note

- If the Virtual Surround setting is 1 or 2, the sound mode will be fixed to **STEREO**, and cannot be changed.

## SUBTITLE LANGUAGE

**DVD**

DVDs allow you to select a language for subtitles (if available) during DVD disc playback.

### 1 Press **SUBTITLE** during playback.

### 2 Press **SUBTITLE** repeatedly to select your desired subtitle language.

- The selected language will be displayed on the display bar at the top of the screen.



### 3 To turn off subtitles, press **SUBTITLE** repeatedly until **OFF** appears.

#### Notes

- Some discs allow audio language setting/subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing **SUBTITLE** several times, the disc does not have subtitles in that language.
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, “---” will be displayed instead. (Refer to page 31.)
- It may take time to display the subtitles in the selected language.

## CAMERA ANGLE

### DVD

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the (  ) mark appears on the screen. If the "ANGLE MARK" setting is "OFF" in the Display setting, the (  ) icon will not appear. (Refer to page 30.)

#### 1 Press ANGLE during playback.

- The selected angle will be displayed on the display bar at the top of the screen.

#### 2 Press ANGLE repeatedly to select your desired angle.

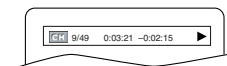
## CHANGING THE ON-SCREEN DISPLAY

You can check the information about the current disc by pressing DISPLAY on the remote control.

### DVD

#### 1 Press DISPLAY during playback to show current Chapter.

- The elapsed and remaining playing time of the current chapter will be displayed.



#### 2 Press DISPLAY again to show current Title.

- The elapsed and remaining playing time of the current title will be displayed.

#### 3 Press DISPLAY for the third time.

- The BIT RATE and the current repeat setting will be displayed.
- If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).

#### 4 Press DISPLAY for the fourth time to remove the display.

### CD

#### 1 Press DISPLAY during playback, the current Track will be displayed on the TV screen.

- The elapsed and remaining playing time of the current track will be displayed.

#### 2 Press DISPLAY again to show the total Track.

- The elapsed and remaining playing time of the disc will be displayed.

#### 3 Press DISPLAY for the third time to remove the display.





### MP3

### JPEG

#### 1 Press DISPLAY during playback of an MP3 or JPEG disc.

- The name of the file currently in play will be displayed.

#### 2 Press DISPLAY again to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.

-  will be displayed when the repeat play has been selected.
  -  T- indicates Track repeat
  -  G- indicates Group (folder) repeat
  -  A- indicates All (disc) repeat

#### 3 Press DISPLAY again to exit.

## PARENTAL CONTROL

Parental Control provides limits for DVDs with extreme violence or adult themes. (A password you establish will override the limits.) This feature allows you to prevent discs with objectionable scenes from being played by your children.

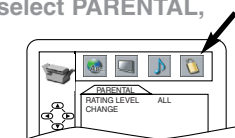
### PARENTAL LEVEL

Parental Level allows you to set the rating level of your DVD discs. Playback will stop if the disc's ratings exceed the level you set.

#### 1 Press SETUP in STOP mode.

#### 2 Press Arrow ( / ) to select CUSTOM, then press ENTER.

#### 3 Press Arrow ( / ) to select PARENTAL, then press ENTER.



- 4 Enter your four-digit password then press ENTER.

- 5 Press Arrow (▲/▼) to select RATING LEVEL, then press ENTER.

- 6 Press Arrow (▲/▼) to select the desired level, then press ENTER.

- 7 Press SETUP to exit

#### Notes

- When doing this for the first time, enter any 4 digits except for 4737. That number will be used as the password from the second time onward. If the password is already set, "CHANGE" appears on the display at step 5.
- To change the password, press Arrow (▲/▼) to select CHANGE, then press ENTER. Enter the four-digit pass-word, then press ENTER.
- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.

#### IF YOU FORGET THE PASSWORD

- 1 Press 4, 7, 3, 7 at step 4.
  - Password will be cleared and parental level will be set to ALL.
- 2 Proceed the above Steps 4-6 again.

#### CONTROL LEVELS

- **ALL**  
All parental lock is cancelled.
- **Level 8**  
DVD software of any grade (adult/general/children) can be played back.
- **Levels 7 to 2**  
Only DVD software intended for general use and children can be played back.
- **Level 1**  
Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

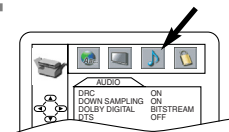
## DVD SETUP

### AUDIO SETTINGS

#### DVD

Set your surround modes for DVD player through your receiver or processor. DVD's audio setup will not affect CD playback.

- 1 Press SETUP in STOP mode.
- 2 Press Arrow (◀/▶) to select CUSTOM, then press ENTER.
  - CUSTOM mode will appear.
- 3 Press Arrow (◀/▶) to select AUDIO, then press ENTER to confirm.
- 4 Press Arrow (▲/▼) to select an item, then press ENTER.



#### DRC (Dynamic Range Control):

- To compress the range of sound volume.
- DRC function is available only on the discs that are recorded in the Dolby Digital format.
- The default setting is ON.

#### DOWN SAMPLING :

- Set to ON when outputting in 48kHz.
- Set to OFF when outputting the original sound.
- The default setting is ON.
- When playing disc with copyright protection, the sound will be down sampled at 48kHz even if you set it to OFF.
- DOWN SAMPLING function is available only on digital output of a disc recorded in 96kHz, and when the unit is connected to another source using the digital out jack.
- DOWN SAMPLING function is available only on the discs recorded in the Dolby Digital format.

#### DOLBY DIGITAL : QUICK

- Set to BITSTREAM when the player is connected to Dolby Digital Decoder.  
(BITSTREAM : Dolby Digital Output)  
(PCM : Converts Dolby Digital to PCM)
- The default setting is BITSTREAM.

#### DTS: QUICK

- Set to BITSTREAM when connected to DTS decoder.
- The default setting is OFF.

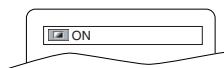
- 4 Press SETUP to exit.

## BLACK LEVEL SETTING

### DVD

Adjust the Black Level Settings to make the black parts of the picture as bright as you prefer.

- 1 Press **MODE** during playback.



- 2 Press **ENTER** to switch ON/OFF.

ON: Makes the dark parts brighter.

OFF: Shows the original picture as recorded.

- 3 Press **MODE** twice or **RETURN** to exit.

- The setting will be saved even if the player is turned off.

## VIRTUAL SURROUND

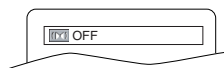
### DVD

### CD

### MP3

You can enjoy surround-sound effect over two speakers.

- 1 Press **SURROUND** during playback.



- 2 Press **SURROUND** to set it 1 (Natural effect) or 2 (Emphasized effect) or OFF.

- 3 Press **MODE** or **RETURN** to exit.

- The setting will be saved even if the DVD/VCR is turned off.

### Notes

- Virtual Surround will not be effective if the sound mode is set to something other than STEREO (for CD play only).
- Turn down the level or turn it "OFF" if the sound is distorted.

## DISPLAY SETTING

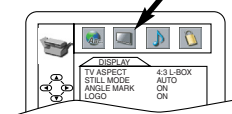
You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD/VCR.

- 1 Press **SETUP** in **STOP** mode.

- 2 Press Arrow (◀/▶) to select **CUSTOM**, then press **ENTER**.

- **CUSTOM** mode will appear.

- 3 Press Arrow (◀/▶) to select **DISPLAY**, then press **ENTER** to confirm.



- 4 Press Arrow (▲/▼) to select the below items, then press **ENTER**.

### TV ASPECT: QUICK

- Press Arrow (▲/▼) for an item selection, then press **ENTER**.
- 4:3 LETTER BOX displays a theater-like image. Black bars appear at the top and bottom of the screen.
- 4:3 PAN-SCAN is the traditional TV mode with a full height picture with both sides trimmed.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.
- The default setting is 4:3 LETTER BOX.

### STILL MODE :

- Press ▲ or ▼ for an item selection (AUTO, FIELD or FRAME), then press **ENTER**.
- Select "AUTO" usually.
- If you select FIELD, pictures in the still mode will be stabilized although they will be coarse due to little amount of data.
- If you select FRAME, pictures in the still mode will be highly defined although they will be blurred due to output of two fields at the same time.
- The default setting is AUTO.

### ANGLE MARK:

- Press **ENTER** repeatedly to turn Angle mark ON or OFF.
- The default setting is ON.

### LOGO:

- Press **ENTER** to switch ON (opening picture)/OFF(black).
- The default setting is ON.

- 5 Press **SETUP** to exit.

### Notes

- Be sure to press **SETUP**, or the setting will not work.

## LANGUAGE SETTING

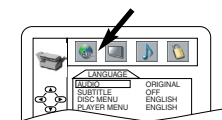
Language options are not available on some discs.

### 1 Press SETUP in STOP mode.

### 2 Press Arrow (◀/▶) to select CUSTOM, then press ENTER.

- CUSTOM mode will appear.

### 3 Press Arrow (◀/▶) to select LANGUAGE, then press ENTER to confirm.



### 4 Press Arrow (▲/▼) to select an item, then press ENTER.

- If you want to return to the LANGUAGE SETTING MENU, press Arrow(◀).

#### AUDIO:

- Sets the audio language.

#### SUBTITLE:

- Sets the subtitle language.

#### DISC MENU:

- Sets the language for DVD menu.

#### PLAYER MENU: **QUICK**

- Sets the language for the On-screen display.

### 5 Press Arrow (▲/▼) to select a setting, then press ENTER.

- If OTHERS is selected on the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list below.)
- Only the languages supported by the disc can be selected.

### 6 Press SETUP to exit.

#### Note

- Language Setting for Audio and Subtitle is not available with some discs. Then use the Audio and the Subtitle button. Details are on page 27.

## To Return All Selections of SETUP (except for PARENTAL) to their Default Settings

DVD

This allows you to return all selections of SETUP (except for PARENTAL) to their default settings.

### 1 Press SETUP in STOP mode.

### 2 Press Arrow (◀/▶) to select INITIALIZE, then press ENTER.

- INITIALIZE mode will appear.

### 3 Press Arrow (▲/▼) to select YES, then press ENTER.

### 4 Press ENTER to exit.

#### Note

- When you cancel to initialize at step 3, select NO.

Language	Code	Language	Code	Language	Code	Language	Code
<b>A-B</b>							
Abkhazian	4748	French [FRE]	5264	Macedonian	5957	Siswat	6565
Afar	4747	Frisian	5271	Malagasy	5953	Slovak	6557
Afrikaans	4752	Galician	5358	Malay	5965	Slovenian	6558
Albanian	6563	Georgian	5747	Malayalam	5958	Somali	6561
Amharic	4759	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Arabic	4764	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Armenian	5471	Greenlandic	5758	Marathi	5964	Swahili	6569
Assamese	4765	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Aymara	4771	Gujarati	5367	Mongolian	5960	T	
Azerbaijani	4772	Hausa	5447	Nauru	6047		6658
Bashkir	4847	Hebrew	5569	Nepali	6051	Tajik	6653
Basque	5167	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Bengali; Bangla	4860	Hungarian [HUN]	5467	<b>O-R</b>		Tatar	6666
Bhutani	5072	<b>I-K</b>		Occitan	6149	Telugu	6651
Bihari	4854	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bislama	4855	Indonesian	5560	Oromo(Afan)	6159	Tibetan	4861
Breton	4864	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Bulgarian	4853	Interlingue	5551	Pashto; Pushto	6265	Tonga	6661
Burmese	5971	Inupiak	5557	Persian	5247	Tsonga	6665
Byelorussian	4851	Irish [IRI]	5347	Polish	6258	Turkish [TUR]	6664
<b>C-E</b>				Portuguese [POR]	6266	Turkmen	6657
Cambodian	5759	Italian [ITA]	5566	Quechua	6367	Twí	6669
Catalan	4947	Japanese [JPN]	5647	Rhaeto-Romance	6459	<b>U-Z</b>	
Chinese [CHI]	7254	Javanese	5669	Romanian [RUM]	6461	Ukrainian	6757
Corsican	4961	Kannada	5760	Russian [RUS]	6467	Urdu	6764
Croatian	5464	Kashmiri	5765	<b>S</b>		Uzbek	6772
Czech	4965	Kazakh	5757	Samoan	6559	Vietnamese	6855
Danish [DAN]	5047	Kinyarwanda	6469	Sangho	6553	Volapuk	6861
Dutch [DUT]	6058	Kirghiz	5771	Sanskrit	6547	Welsh	4971
English [ENG]	5160	Kirundi	6460	Scots Gaelic	5350	Wolof	6961
Esperanto	5161	Korean [KOR]	5761	Serbian	6564	Xhosa	7054
Estonian	5166	Kurdish	5767	Serbo-Croatian	6554	Yiddish	5655
<b>F-H</b>				Sesotho	6566	Yoruba	7161
Faroeese	5261	<b>L-N</b>		Setswana	6660	Zulu	7267
Fiji	5256	Laothian	5861	Shona	6560		
Finnish [FIN]	5255	Latin	5847	Sindhi	6550		
		Latvian; Lettish	5868	Singhalese	6555		
		Lingala	5860				
		Lithuanian	5866				

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 27. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

# TROUBLESHOOTING GUIDE

If the DVD/VCR does not perform properly when operated as instructed in this Owner's Manual, check the DVD/VCR consulting the following checklist.

	PROBLEM	CORRECTIVE ACTION
<b>D V D</b>	No power.	<ul style="list-style-type: none"> <li>• Make sure the power plug is connected to an AC outlet.</li> <li>• Make sure the power is turned on.</li> </ul>
	The DVD/VCR does not respond to the remote control.	<ul style="list-style-type: none"> <li>• Check if the power plug is connected to an AC outlet.</li> <li>• Check the batteries in the remote control.</li> <li>• Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote.</li> <li>• You have to be within 23 feet of the DVD/VCR.</li> <li>• Check if the correct mode is selected. If not switch the mode by pressing DVD or VCR, whichever you need, on the remote control.</li> <li>• Check if a cassette tape is in the DVD/VCR.</li> </ul>
<b>V C R</b>	Timer recording is impossible.	<ul style="list-style-type: none"> <li>• Make sure the timer recording is set correctly by pressing TIMER.</li> <li>• Make sure the TIMER light is on on the front panel, and "REC" and "Ⓢ" appear in the front panel display. If not, press TIMER.</li> <li>• Make sure the DVD/VCR clock is set correctly.</li> </ul>
	Cannot go into Record mode.	<ul style="list-style-type: none"> <li>• Make sure the tape has a safety tab. If needed, cover the hole with cellophane tape.</li> <li>• Put the DVD/VCR in VCR mode. Press VCR on the remote control so that the green VCR OUTPUT light is lit.</li> </ul>
	Playback picture is partially noisy Cannot view a tape but the audio is OK.	<ul style="list-style-type: none"> <li>• Adjust tracking control for a better picture by pressing CH (▲/▼).</li> <li>• Head cleaning may be necessary. Refer to "AUTO HEAD CLEANING".</li> <li>• Make sure the DVD/VCR is not in the Menu mode.</li> </ul>
	No, or poor, playback picture.	<ul style="list-style-type: none"> <li>• Change the RF output channel to CH4. Then select the same channel on the TV.</li> <li>• Fine tune your TV.</li> </ul>
	TV programs cannot be seen normally.	<ul style="list-style-type: none"> <li>• Re-check the ANT. IN and ANT. OUT connections. See page 13.</li> <li>• Press VCR/TV.</li> <li>• Press VCR on the remote control to put it in the VCR mode. Check if the green VCR OUTPUT light is lit. Then, set it to the TV position by pressing VCR/TV.</li> </ul>
	Video or color fades in and out when making a copy of a video tape.	<ul style="list-style-type: none"> <li>• You cannot copy a copyrighted video tape. You are experiencing copy guard protection.</li> </ul>
	Cannot remove the tape.	<ul style="list-style-type: none"> <li>• Check if the DVD/VCR is in the VCR mode. If not, press VCR on the remote control to switch the mode.</li> </ul>
<b>D V D</b>	No picture.	<ul style="list-style-type: none"> <li>• Connect the video cables firmly.</li> <li>• Insert a correct video disc that plays on this DVD/VCR.</li> <li>• Press DVD on the remote control. Check if the DVD OUTPUT Light is lit. Then try other DVD feature.</li> <li>• Check if the progressive/interlace mode is set correctly according to your TV.</li> </ul>
	Disc cannot be played.	<ul style="list-style-type: none"> <li>• Insert the disc.</li> <li>• Clean the disc.</li> <li>• Place the disc correctly, with the label side up.</li> <li>• Cancel the parental lock or change the control level.</li> </ul>
	No sound.	<ul style="list-style-type: none"> <li>• Connect the audio cables firmly.</li> <li>• Turn the power of the audio component on.</li> <li>• Correct the audio output settings.</li> <li>• Correct the input settings on the audio component.</li> </ul>
	No DTS audio is output.	<ul style="list-style-type: none"> <li>• Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.</li> </ul>
	Distorted picture.	<ul style="list-style-type: none"> <li>• Connect the DVD/VCR directly to the TV.</li> <li>• There are some cases where pictures may be slightly distorted, which are not a sign of a malfunction.</li> <li>• Although pictures may stop for a moment, this is not a malfunction.</li> </ul>
	Audio or subtitle language does not match the set up.	<ul style="list-style-type: none"> <li>• The selected language is not available for audio or subtitles on the DVD disc.</li> </ul> <p>This is not a malfunction</p>
	The camera angle cannot be changed.	<ul style="list-style-type: none"> <li>• The DVD disc does not contain sequences recorded from different camera angles.</li> </ul> <p>This is not a malfunction</p>
	Audio or subtitle language cannot be changed.	<ul style="list-style-type: none"> <li>• The DVD disc does not contain audio source or subtitles in the selected language.</li> </ul> <p>This is not a malfunction.</p>
	"Prohibited icon" appears on the screen, prohibiting an operation.	<ul style="list-style-type: none"> <li>• That operation is prohibited by the DVD/VCR or the disc.</li> </ul> <p>This is not a malfunction.</p>

## Notes

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Instruction Manual for details on correct operations.
- Playback from a desired track and random playback are not available during program playback.
- Some functions are prohibited on some discs.



# MAINTENANCE

## SERVICING

- Should your DVD/VCR become inoperative, do not try to correct the problem yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord, and please call our help line at 1-800-448-2244 to locate an Authorized Service Center.

## CLEANING THE CABINET

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

## CLEANING DISCS

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzene, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

## CLEANING THE DISC LENS

- If the DVD/VCR still does not perform properly when it is operated while referring to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

## AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
  - Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem. If a streaky or snowy picture appears during playback, the video heads in your DVD/VCR may need to be cleaned.
1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
  2. If a Video Head Cleaner does not solve the problem, please call our help line at 1-800-448-2244 to locate an Authorized Service Center.

## NOTES:

- Remember to read the instructions included with the video head cleaner before use.
- Clean video heads only when problems occur.

# DISC HANDLING

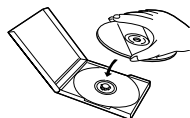
- Use discs which have the following logos on them. (Optical audio digital discs.)



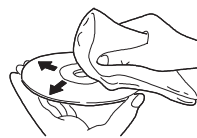
- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.



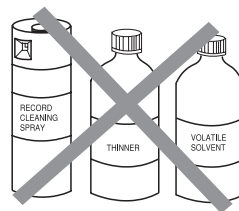
- Always store the disc in its protective case when it is not used.



- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the disc.
- Wipe the disc in a straight line from center to edge.
- Never wipe with a circular motion.



- Do not use detergent or abrasive cleaning agents.



## Make your contribution to the environment!!!

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your city office or consult the yellowpages for details.



## SPECIFICATIONS

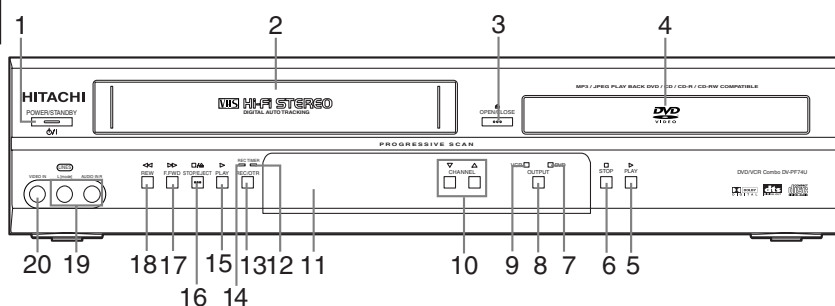
---

Product type:	DVD/VCR Combo (DVD player with Video Cassette Recorder)
Discs:	DVD video Audio CD Video Cassette tape (VHS)
Converter output:	VHF Channel 3 or 4.
Power source:	120 V AC +/- 10%, 60 Hz +/- 0.5%
Power consumption:	21 W (standby: 3.6 W)
Operating temperature:	41°F (5°C) to 104°F (40°C)
Dimensions:	W 17-3/16" (435 mm) H 3-3/4" (94 mm) D 9-3/16" (233 mm)
Weight:	6.0 lbs (2.7 kg)

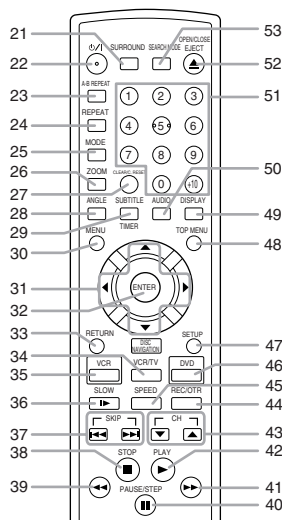
- **Designs and specifications are subject to change without notice.**
- **If there is a discrepancy between languages, the default language will be English.**

# CONTROLES DEL FUNCIONAMIENTO Y SUS FUNCIONES

## PANEL DELANTERO



## PANEL REMOTO



1. **Botón POWER/STANDBY**  
Presione para conectar y desconectar la alimentación.
2. **COMPARTIMIENTO DE CASSETES**
3. **Botón OPEN/CLOSE**  
Presione para insertar discos en o removerlos de la bandeja de carga del disco.
4. **Bandeja de carga del disco**
5. **Botón PLAY (DVD)**  
Presione para comenzar la reproducción.  
Para activar / desactivar la exploración progresiva.
6. **Botón STOP (DVD)**  
Detiene la operación del disco.
7. **Luz DVD OUTPUT (verde)**  
Esta luz aparece cuando se selecciona el modo DVD. Usted sólo puede mirar DVDs cuando la luz DVD OUTPUT verde se encienda. Para que se encienda la luz DVD OUTPUT verde, presione el DVD en el control remoto o el OUTPUT en el panel delantero.
8. **Botón OUTPUT**  
Presione para seleccionar el modo DVD o el modo VCR.  
● Usted puede cambiar el modo de salida ya sea presionando el OUTPUT en el panel delantero o el DVD o VCR en el control remoto. Sin embargo, si usted presiona el OUTPUT en el panel delantero primero, usted necesita volver a seleccionar el modo correspondiente presionando el DVD o el VCR en el control remoto.
9. **Luz VCR OUTPUT (verde)**  
Esta luz aparece cuando se selecciona el modo VCR. Usted sólo puede mirar cintas cuando la luz VCR OUTPUT verde esta encendida. Para hacer que la luz VCR OUTPUT verde se encienda, presione el VCR en el control remoto o el OUTPUT en el panel delantero.

## 10. Botones CHANNEL

En el modo VCR, presione para cambiar canales de TV en la DVD/VCR; presione para ajustar el seguimiento durante la reproducción normal o en movimiento lento; presione para remover las fluctuaciones verticales en una imagen fija.

## 11. Visualizador, ventanilla del sensor remoto

## 12. Luz TIMER

Esta luz se enciende cuando el DVD/VCR está en el modo de espera o apagada para una grabación con temporizador o durante una grabación de Un-Toque. Parpadea si se presiona el TIMER para una grabación con temporizador pero no hay cinta en el DVD/VCR. Parpadea cuando todas las grabaciones con temporizador o grabaciones de Un-Toque han terminado.

## 13. Botón REC/OTR

Presione una vez para iniciar una grabación. Presione repetidamente para iniciar un Grabación de Un-Toque.

## 14. Luz REC

Se enciende durante la grabación.

## 15. Botón PLAY (VCR)

Presione para comenzar la reproducción.

## 16. Botón STOP/EJECT (VCR) Botón de expulsión (EJECT)

Presione para sacar la cinta de la DVD/VCR.

## Botón de parada (STOP)

Presione para detener el movimiento de la cinta.

## 17. Botón F.FWD (VCR)

Presione para avanzar rápidamente la cinta o ver la imagen rápidamente en avance durante la reproducción (Búsqueda en avance).

## 18. Botón REW (VCR)

Presione para rebobinar la cinta o para ver la imagen rápidamente en inversión durante el modo de reproducción (Búsqueda en rebobinado).

## 19. Toma de entrada de AUDIO

Conecte aquí cables de audio procedentes de las tomas de salida de audio de un camcorder, otra videograbadora o una fuente de video.

## 20. Toma de entrada de VIDEO

Conecte aquí un cable de video procedente de la toma de salida de video de un camcorder, otra videograbadora o una fuente de video (reproductor de discos láser, camcorder, etc.)

## 21. Botón SURROUND

Presione para activar el sonido tridimensional.

## 22. Botón 0/I (POWER/STANDBY)

Presione para conectar y desconectar la alimentación. (Para las indicaciones del interruptor de funcionamiento, "I" indica la conexión y "0/I" indica el estado de espera de alimentación eléctrica.

## 23. Botón A-B REPEAT

Cepite la reproducción de una sección seleccionada.

24. **Botón REPEAT**  
Repite la reproducción del disco, título, capítulo o pista actual.
25. **Botón MODE**  
Activa el modo de reproducción de programa o reproducción aleatoria cuando se reproducen CDs de audio o discos de MP3/JPEG. Ajusta el nivel del negro y el Mode de Presentación (Slide Show Mode).
26. **Botón ZOOM**  
Amplía parte de una imagen reproducida en DVD.
27. **Botón CREAR/C.RESET**
  - **Modo DVD**  
Presione para reponer el ajuste.
  - **Modo VCR**  
Presione para reponer el contador. Presione para salir de la pantalla MENU.
28. **Botón ANGLE**  
Presione para cambiar el ángulo de cámara para ver la secuencia que se está reproduciendo desde un ángulo diferente.
29. **Botón SUBTITLE**  
Presione para seleccionar un idioma de subtítulo deseado.
- Botón TIMER**  
Presione para poner la videgrabadora en el modo de espera para una grabación con temporizador.
30. **Botón MENU**
  - **Modo DVD**  
Presione para visualizar el menú del disco.
  - **Modo VCR**  
Presione para tener acceso al menú VCR.
31. **Botones de flecha**
  - **Modo DVD**  
**Botones** ▼ / ▲ / ► / ◀  
Mueve el cursor y determina su posición.
  - **Modo VCR**  
**Botones** ▼ / ▲  
Presione para entrar dígitos cuando ajuste el programa. (Por ejemplo, ajuste el reloj o programa con temporizador.) Presione para seleccionar los modos de ajuste del menú en pantalla.
  - Botón** ►  
Cuando ajuste el programa (Por ejemplo: ajuste el reloj o programa con temporizador), presione para determinar su selección y proceder al siguiente paso que usted desea entrar. Presione para determinar los modos de ajuste del menú en pantalla. Presione para añadir o cancelar números de canal durante el preajuste de canal.
  - Botón** ◀  
Presione para cancelar un ajuste de programa con temporizador. Presione para corregir dígitos cuando ajuste el programa. (Por ejemplo: ajuste de reloj o programa con temporizador.) Presione para añadir o cancelar números de canal durante el preajuste de canal.
32. **Botón ENTER**  
Presione para aceptar un ajuste.
33. **Botón RETURN**  
Vuelve a la operación previa.
34. **Botón VCR/TV**  
Utilice para seleccionar la posición VCR o TV. Este DVD/VCR no tiene una luz VCR/TV. Si aparece ruido en su TV cuando enciende el DVD/VCR (modo VCR), presione este botón.
  - **Posición VCR**  
Para mirar la reproducción, para monitorear las grabaciones de video o para mirar un TV utilizando el sintonizador VCR.
  - **Posición TV**  
Para mirar la TV o para mirar un programa mientras graba otro.
- Botón DISC NAVIGATION**  
Púlselo para visualizar las primeras ascenas de cada capítulo del título que está siendo reproducido.
35. **Botón VCR**  
Presione para seleccionar el modo VCR para el control remoto.
  - Usted puede cambiar el modo OUTPUT ya sea presionando el OUTPUT en el panel delantero o el DVD o VCR en el control remoto. Sin embargo, **si usted presiona el OUTPUT en el panel delantero primero, usted necesita volver a seleccionar el modo correspondiente presionando el DVD o el VCR en el control remoto.**
36. **Botón SLOW**  
Durante la reproducción de la cinta, presione para mirar la cinta de video en movimiento lento. Presione el PLAY para reanudar la reproducción normal. Este botón no afecta la reproducción de DVD.
37. **Botones SKIP**
  - **Modo DVD**  
Presione para saltar capítulos o pistas.
38. **Botón STOP**
  - **Modo DVD**  
Presione para detener el movimiento del disco.
  - **Modo VCR**  
Presione para detener el movimiento de la cinta.
39. **Botón** ◀◀
  - **Modo DVD**  
Presione para ver la imagen DVD en movimiento de inversión rápida o para inversión rápida o para invertir la reproducción de un CD de audio.
  - **Modo VCR**  
Presione para rebobinar la cinta o para ver la imagen rápidamente en inversión durante el modo de reproducción (Búsqueda en Rebobinado).
40. **Botón PAUSE/STEP**
  - **Modo DVD**  
Presione para hacer una pausa en la reproducción del disco. Presione repetidamente para avanzar la imagen DVD paso a paso (o un fotograma a cada vez).
  - **Modo VCR**  
Mientras graba, presione para detener provisionalmente la grabación (pausa). Presione por segunda vez para reanudar la grabación normal. Usted no puede hacer una pausa en la grabación de Un-Toque. O presione durante la reproducción de la cinta para congelar la imagen.
41. **Botón** ▶▶
  - **Modo DVD**  
Presione para avanzar rápidamente el disco. Presione el PAUSE/STEP, luego presione este botón para comenzar la reproducción en movimiento lento. Presione este botón repetidamente para cambiar la velocidad de avance del movimiento lento.
  - **Modo VCR**  
Presione para avanzar rápidamente la cinta o ver la imagen rápidamente en avance durante la reproducción (Búsqueda de avance).
42. **Botón PLAY**
  - **Modo DVD**  
Presione para comenzar la reproducción.
  - **Modo VCR**  
Presione para comenzar la reproducción.
43. **Botones CH**
  - **Modo VCR**  
Presione para cambiar canales de TV en la videgrabadora.
44. **Botón REC/OTR**  
Presione una vez para comenzar una grabación. Presione repetidamente para comenzar una grabación de Un-Toque.
45. **Botón SPEED**  
Presione para seleccionar la velocidad de grabación de VCR (SP o SLP).

**46. Botón DVD**

Presione antes de utilizar el control remoto para el modo DVD.

- Usted puede cambiar el modo de salida ya sea presionando el OUTPUT en el panel delantero o el DVD o VCR en el control remoto. Sin embargo, **si usted presiona el OUTPUT en el panel delantero primero, usted necesita volver a seleccionar el modo correspondiente presionando el DVD o el VCR en el control remoto.**

**47. Botón SETUP**

Presione para entrar en el modo de preparación.

**48. Botón TOP MENU**

Presione para llamar el menú de título.

**49. Botón DISPLAY****● Modo DVD**

Presione para tener acceso o remover la pantalla de visualización durante la reproducción DVD o CD de audio.

**● Modo VCR**

Presione para tener acceso o remover la visualización de estado en pantalla de la videogradora.

**50. Botón AUDIO**

Presione para seleccionar un idioma de audio deseado o modo de sonido.

**51. Botones numéricos****● Modo DVD**

Presione para seleccionar directamente un capítulo o título (DVD), o una pista (CD de audio o disco de MP3/JPEG) para su reproducción.

**● Modo VCR**

Presione para seleccionar canales de TV en la videogradora. Para seleccionar canales, entre el número de canal como un número de dos dígitos para los resultados más rápidos. Por ejemplo, para seleccionar el canal 6, presione 0 y después 6.

**52. Botón OPEN/CLOSE**

Presione para abrir o cerrar la bandeja de carga del disco.

**Botón EJECT**

Presione para que salga el videocasete de la videogradora.

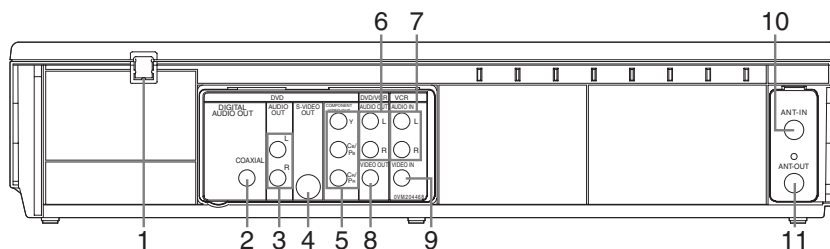
**53. Botón SEARCH MODE****● Modo DVD**

Presione para tener acceso o remover la indicación de búsqueda que le permite ir directamente a un título/capítulo/pista/tiempo/marcadore especificado.

**● Modo VCR**

Presione para realizar una Búsqueda de tiempo o Búsqueda de índice.

**Precaución: No toque los pasadores interiores de las tomas en el panel trasero. La descarga electrostática puede dañar permanentemente el DVD/VCR.**

**VISIÓN TRASERA****1. Cable de alimentación de CA**

Conecte a una toma de corriente CA estándar para suministrar corriente al DVD/VCR.

**2. Toma COAXIAL (sólo DVD)**

Conecte aquí un cable de audio digital coaxial opcional y a la toma de entrada Audio Digital Coaxial de un decodificador o receptor de audio.

**3. Tomas DVD AUDIO OUT (sólo DVD)**

Conecte aquí los cables de audio provistos y a las tomas de entrada de audio de un televisor u otro equipo de audio (sólo DVD).

**4. Toma S-VIDEO OUT (sólo DVD)**

Conecte aquí un cable de S-Video opcional y a la toma de entrada de S-Video de un televisor.

**5. Tomas COMPONENT VIDEO OUT (sólo DVD)**

Conecte aquí los cables de vídeo componente opcionales y a las tomas de entrada de Vídeo componente de un televisor.

**6. Tomas DVD/VCR AUDIO OUT**

Conecte aquí los cables de audio provistos y a las tomas de entrada de audio de un televisor u otro equipo de audio.

**7. Tomas AUDIO IN**

Conecte aquí los cables de audio procedentes de las tomas de salida de audio de un camcorder, otra videogradora o una fuente de audio.

**8. Toma DVD/VCR VIDEO OUT**

Conecte aquí el cable de video amarillo (provisto) y a la toma de entrada de video de TV.

**9. Toma VIDEO IN (sólo VCR)**

Conecte un cable procedente de la toma de salida de video de un camcorder, otra videogradora o una fuente de audio-visual (reproductor de disco láser, reproductor de disco de video, etc.) aquí.

**10. Toma ANT-IN (Entrada de antena)**

Conecte su antena, caja de cable o sistema de radiodifusión directa.

**11. Toma ANT-OUT (salida de antena)**

Utilice el cable coaxial RF provisto para conectar esta toma a la toma ANTENNA IN en su TV.

**Nota**

- La toma S-VIDEO OUT, toma COAXIAL, y tomas COMPONENT VIDEO OUT son sólo útiles en el modo DVD.

## CAMBIO DE VCR/DVD

Como este producto utiliza videograbadoras y reproductores DVD, es necesario seleccionar el modo de salida correcto.

### CAMBIO AL MODO VCR

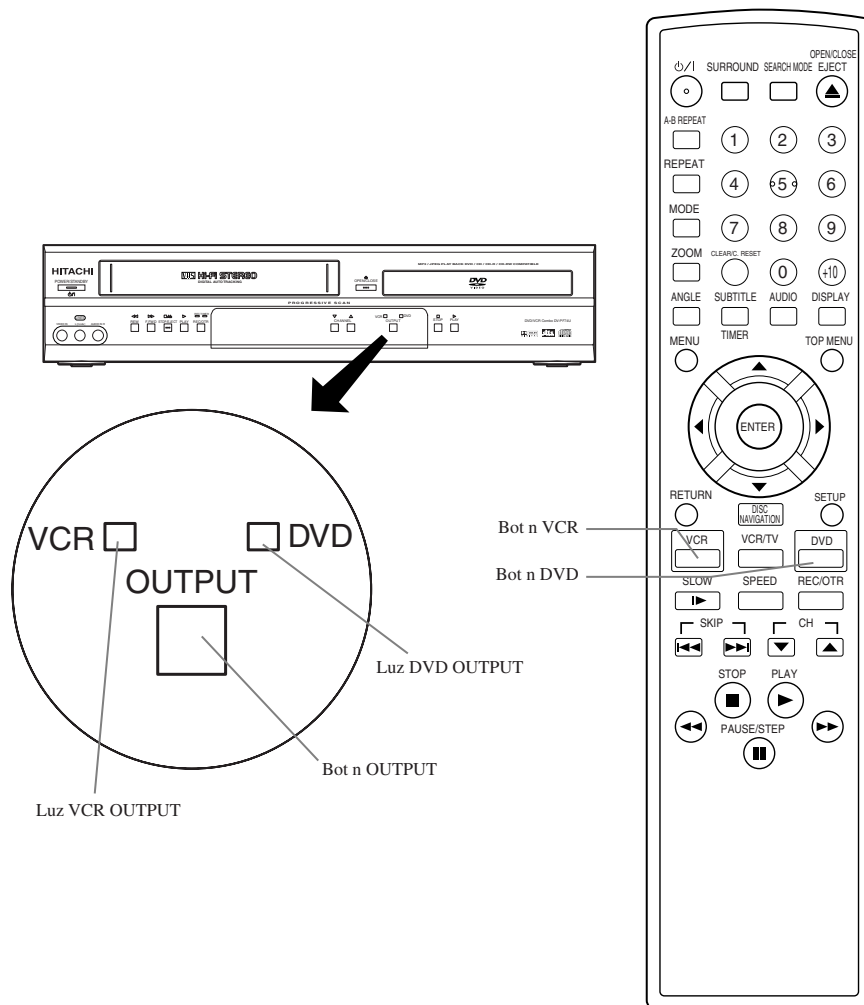
Presione el VCR en el control remoto.  
(Verifique que la luz VCR OUTPUT está encendida.)

### CAMBIO AL MODO DVD

Presione el DVD en el control remoto.  
(Verifique que la luz DVD OUTPUT está encendida.)

#### Notas

- Presionando sólo el OUTPUT en el panel delantero no cambia el modo del control remoto. Usted siempre necesita seleccionar el modo correcto en el control remoto, también.





# CONEXIONES

## DVD/VCR A CONEXION DE TV

1. Desconecte el cable de alimentación CA de la toma de corriente CA.
2. Desconecte la antena o cable del TV.
3. Conecte la antena o cable a la toma ANT-IN del DVD/VCR.
4. Conecte el DVD/VCR al TV utilizando el cable RF.
5. Enchufe los cables de alimentación CA del DVD/VCR y TV dentro de las tomas de corriente CA.

## CANAL DE SALIDA RF

Si su TV no tiene terminales A/V:

1. Conecte el DVD/VCR a una TV mediante un cable RF (consulte CONEXIÓN DE DVD/VCR A TV).
2. Seleccione el canal 3 de su TV.
3. Inserte una cinta pregrabada en la unidad.
4. Pulse OUTPUT en el DVD/VCR para que se ilumine la luz VCR OUTPUT.
  - Si la luz "VCR" no aparece en la pantalla del panel delantero, pulse DVD/VCR en el mando a distancia.
5. Pulse PLAY.
  - Si aparece ruido, significa que el canal 3 ya está ocupado con otra emisión. En tal caso, cambie el canal de salida de RF del VCR al canal 4 con los siguientes pasos.
    - Si el canal 3 ya está ocupado con otra emisión,
      1. Pulse PLAY una vez.
      2. Tras unos segundos, pulse el botón PLAY en el DVD/VCR durante 3 segundos.
    - El canal de salida RF se cambiará al canal 4 y verá la imagen que se esté reproduciendo.
    - Si no aparece ninguna imagen, repita estos pasos.
    - Si hay un fallo de alimentación o el DVD/VCR está desenchufado durante más de 30 segundos, la configuración del canal de salida de RF volverá al canal 3.

## CONEXION A UN SISTEMA DE AUDIO

Por favor, vea la página 14 para detalles.







## CONEXION A UN TV (PARA VIDEO)

Por favor vea la página 15 para detalles.

# PREPARACIÓN

## PREPARACION DE UN CANAL AUTOMATICO

VCR

- 1 Es necesario conectar primero la antena o cable a la videogradora. Luego conecte el enchufe eléctrico de DVD/VCR a una toma de corriente CA.
- 2 Encienda el TV y ponga el TV en el canal 3.
  - Si aparece ruido, cambie el canal de salida RF de la videogradora al canal 4 presionando PLAY durante 3 segundos durante la reproducción. Luego seleccione el mismo canal (4) en su TV. (Vea el "Canal de salida RF" Para más detalles.)
- 3 Encienda la videogradora presionando /I. Se encenderá la luz POWER.
- 4 Seleccione el idioma en la pantalla ("INGLES", "FRANCÉS" o ESPAÑOL) presionando  o . Luego presione .
- 5 Comience el preajuste de canal presionando  una vez. El sintonizador explora y memoriza todos los canales activos en su área.
  - La videocámara distingue entre los canales de TV normales y los canales de cable.
- 6 Después de explorar, el sintonizador se detiene en el canal memorizado más bajo. La pantalla de TV retorna al modo TV.
  - Si aparece otra vez "AUTO SET UP" en la pantalla de TV, inspeccione las conexiones de cable. Presione nuevamente  y la videogradora volverá a hacer el preajuste.

## PREPARACION DE RELOJ

VCR

### 1 Seleccione el menú principal presionando MENU.

- Si el reloj no está ajustado, aparece primero el menú CLOCK SET. En este caso, siga el paso (3).

### 2 Seleccione "CLOCK SET" presionando ▲ o ▼. Luego presione ►.

### 3 Ajuste el reloj.

#### 1) Ajuste el mes

Presione ▲ o ▼ repetidamente.  
Luego presione ►.

#### 2) Ajuste el día

Presione ▲ o ▼ repetidamente.  
Luego presione ►.

#### 3) Ajuste el año

Presione ▲ o ▼ repetidamente.  
Luego presione ►.  
El día de la semana aparecerá automáticamente.

#### 4) Ajuste la hora

Presione ▲ o ▼ repetidamente.  
Luego presione ►.

#### 5) Ajuste el minuto

Presione ▲ o ▼ repetidamente.  
Luego presione ►.

#### 6) Ajuste el AM o PM

Presione ▲ o ▼ repetidamente.

AJUSTE DE RELOJ			
MES	DIA	AÑO	
03	/ 17	MIE 2004	
HORA	MINUTO	AM/PM	
05	: 40	PM	

- Para retroceder un paso, presione ◀.

### 4 Ponga en marcha el reloj presionando CLEAR/C.RESET o ►.

## REPRODUCCIÓN DE UN DISCO

### REPRODUCCIÓN BÁSICA

DVD

CD

MP3

JPEG

### Para empezar

- Conecte la alimentación del TV, amplificador y cualquier otro componente que se encuentre conectado al DVD/VCR.
- Asegúrese que el TV y el receptor de audio (de venta en los comercios) están en el canal correcto.
- Seleccione el modo DVD presionando DVD en el control remoto o la salida en el panel delantero.

### 1 Presione ○/I.

- Aparecerá "Load" brevemente en el visualizador.
- Asegúrese que la luz DVD OUTPUT está encendida. Si no lo está, presione el botón DVD en el control remoto para cambiar al modo DVD.

### 2 Presione OPEN CLOSE para abrir la bandeja de carga del disco.

### 3 Ponga el disco elegido en la bandeja, con la etiqueta hacia arriba.

### 4 Presione PLAY.

- La bandeja se cerrará automáticamente y la reproducción empezará luego desde el primer capítulo o pista del disco. Si la reproducción no comienza automáticamente, presione PLAY.

### 5 Presione STOP para detener la reproducción.

### Notas

Puede aparecer un "icono de prohibición" O en la parte superior derecha de la pantalla de TV durante el funcionamiento, para avisar que hubo una operación prohibida en el DVD/VCR o el disco.

- Con los DVD que utilicen títulos para las señales de programa de reproducción, la reproducción puede empezar del segundo título o puede saltar estos títulos.
- Durante la reproducción de un disco de dos capas, las imágenes pueden detenerse un momento. Esto sucede cuando la primera capa cambia a la segunda capa. Esto no es una avería.
- Si un disco está sucio o tiene rayas, las imágenes pueden aparecer distorsionadas y la reproducción puede detenerse. En estos casos, limpie el disco y desenchufe el cable de corriente y enchufe nuevamente antes de continuar con la reproducción.

# MEMO

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# HITACHI

# service hotline

To locate an authorized  
HITACHI service facility in  
the continental U.S.A

**DIAL TOLL FREE**  
7 days a week, 24 hours a day

# 800 HITACHI

**1-800-448-2244**

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Hitachi has made every effort to assure you hours of trouble free operation from your unit . However , should you require service , a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico . Each facility will provide you with convenient and expedient assistance . Our service "Hot line" operator will direct you to the Hitachi Authorized Service Facility nearest you . Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide .

---

Should you have any questions regarding in-warranty service, operation or technical assistance, please contact:

HITACHI AMERICA, LTD.  
HOME ELECTRONICS DIVISION

900 Hitachi way,  
Chula Vista, CA 91914-3556  
Tel: 1-800-HITACHI  
(1-800-448-2244)

HITACHI CANADA LTD .  
DIGITAL MEDIA DIVISION

2495 Meadowpine Blvd., Mississauga,  
Ontario L5N 6C3 CANADA  
Tel: 1-800-HITACHI  
(1-800-448-2244)

during the business hours

Monday - Friday EST 9:00am~7:00pm  
Saturday EST 9:00am~5:00pm

durant les heures de bureau:

Lundi au Vendredi 9:00am~7:00pm (h.n.e.)  
Samedi 9:00am~5:00pm (h.n.e.)

## DECLARATION OF CONFORMITY

with FCC Rules for Electromagnetic Compatibility

Products: DVD PLAYER with VIDEO

CASSETTE RECORDER

Models: DV-PF74U

Trade Name: HITACHI

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: HITACHI AMERICA, LTD.  
HOME ELECTRONICS DIVISION  
900 Hitachi way,  
Chula Vista, CA 91914-3556  
Tel: 619-591-5200

## Warranty Limitations

The Limited Warranty provided by Hitachi does not cover:

- A. Cabinet (exterior finish items), Battery packs, Accessories, Lens Cleanings, Head Cleanings, DVD Disc Damage, Video Tape Damage, or Software Modifications.
- B. Any defect, malfunction, or failure caused by or resulting from improper service, maintenance, repair, use of DVD Cleaning Disks, use of Video Cleaning Cassettes, software, or from abuse, neglect, accident or any other cause beyond the control of Hitachi
- C. Unpacking, set-up or installation, adjustment of customer operated controls, user instruction.
- D. Any product with Serial Numbers altered or removed
- E. New products purchased or service performed outside of the continental United States or its possessions
- F. Product used for a commercial or industrial purpose.

NO PERSON, AGENT, DISTRIBUTOR, DEALER, SERVICE FACILITY, OR COMPANY IS AUTHORIZED TO CHANGE, MODIFY, OR AMEND THE TERMS OF THIS LIMITED WARRANTY IN ANY MANNER OR FASHION WHATSOEVER, EXCEPT AND TO THE EXTENT PROVIDED IN THIS LIMITED WARRANTY. HITACHI MAKES NO EXPRESS WARRANTY REGARDING THIS HITACHI PRODUCT. FURTHER, ALL IMPLIED WARRANTIES RELATING TO ANY PORTION OF THIS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO 90 DAYS FOR LABOR AND ONE YEAR FOR PARTS, THE DURATION OF THE APPLICABLE EXPRESS WARRANTY CONTAINED ABOVE. HITACHI SHALL NOT BE LIABLE TO THE PURCHASER OR TO ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFIT OF PRODUCT RESULTING FROM ANY DEFECT IN OR MALFUNCTION OR FAILURE OF THIS HITACHI PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

## Important Notice:

Retain your sales receipt for warranty purposes. Please complete the section below for your records as it may be needed in the event of loss.

Attach your sales receipt to this card.

### *DVD, VCR, Camcorder Products, AC Adapter Charger Limited Warranty Registration*

(for your records)

Model No.

Serial No.

Date of Purchase

Dealer Name

Dealer Address

City

State

Zip

# HITACHI

REGISTER YOUR PRODUCT ON-LINE AT  
HITACHI.COM/TV  
OR MAIL IN TO ADDRESS ON THIS CARD.

# HITACHI

"In order to allow Hitachi to better serve customer needs, please complete this card and return it to Hitachi America, Ltd., Home Electronics Division Completion of this card is not required in order to validate your Hitachi limited warranty, but would assist us in developing better services and programs for our customers."  
(Please print or type)

Model No.

Serial No.

Date of purchase

Customer Name

Customer Address

City

State

Zip

( )  
Phone No.

Dealer name

Dealer address

City

State

Zip

# HITACHI

Hitachi America, Ltd.  
Home Electronics Division

## LIMITED WARRANTY

Hitachi America, Ltd., Home Electronics Division ("Hitachi,") warrants this component in duration as stated below:

- **DVD Products**
- **VCR Products**
- **CAMCORDER Products**
- **AC ADAPTER CHARGER**

- **90 DAYS LABOR (Carry-in)**
- **1 YEAR PARTS (Except Battery)**

### Conditions of Hitachi Limited Warranty

These Hitachi Products are warranted to be free of defects in parts and workmanship at the time of purchase by the original owner. If this product is found to be defective, Hitachi will repair or replace defective parts at no charge to the original owner. Parts used for replacement are warranted for the remainder of the original Limited Warranty period. For 90 days from the date of original purchase, Hitachi will provide labor for the repair or replacement of defective parts without charge, subject to the following conditions:

1. Owner must provide verification of the date of purchase when requesting Limited Warranty Service. (Dated Sales Receipt Required)
2. All repairs must be performed by a Hitachi Authorized Service Facility.
3. This warranty is valid only in the U.S.A.

For information concerning repairs, operation, technical assistance or for referral to the location of your nearest Authorized Service Facility or Parts Distributor, call: 1-800-HITACHI (1-800-448-2244)

**HITACHI AMERICA, LTD**  
**HOME ELECTRONICS DIVISION**  
900 Hitachi Way  
Chula Vista, CA 91914-3556  
Tel: 1-800-HITACHI

**REGISTER YOUR HITACHI PRODUCT ON-LINE AT  
HITACHI.COM/TV**

(Continued on reverse side)

QT15271

**Register your product on-line at [hitachi.com/tv](http://hitachi.com/tv)  
or mail this portion to the following address**

Attn: Warranty Department  
Hitachi America, Ltd., Home Electronics Division  
900 Hitachi Way  
Chula Vista, CA 91914-3556