

DVD & VCR user manual

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getting started

WARNING

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

| | | |
|---|---|---|
|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  |
| This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit. | 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. | This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit. |

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION

THIS DVD RECORDER & VCR USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.
BE SURE TO OPERATE THE RECORDER AS INSTRUCTED.

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTIONS

Caution : To prevent electric shock, match the wide blade of the plug to wide slot of the socket and fully insert.
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Caution : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.



- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD Recorder & VCR is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this, the DVD Recorder & VCR cannot play the disc.
- This device is protected by U.S. Patent Nos. 4,631,603; 5,315,448; 4,819,098; 4,907,093; and 6,516,132. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- This product is covered by one or more of the following U.S. patents:
5,060,220 5,457,669 5,561,649 5,705,762 6,043,912 6,438,099
6,467,061 6,556,521 6,578,163 6,697,307 6,728,474 6,771,891
6,894,963 6,895,593 6,937,815 6,996,327 7,009,926 7,085,221
7,088,649 7,092,327 7,099,566 7,123,564 7,142,493 7,142,495
7,145,861 7,146,624 7,151,729 7,161,879 7,164,647 7,167,437
7,173,891 7,177,250 7,194,187 7,203,891 7,209,423 7,210,067
7,228,062 7,245,566 7,245,567 7,257,065 7,263,045 7,269,110
7,272,086 7,272,106 7,280,460 7,283,729 7,286,454 7,304,938

| | |
|-----------|---|
| DANGER | - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. |
| CAUTION | - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. |
| ATTENTION | - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU. |
| ADVARSEL | - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING. |
| VARO! | - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN. |
| WARNING | - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN. |
| ADVARSEL | - SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN. |
| VORSICHT | - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN. |
| 注意 | - 打开时有可见及不可见激光辐射。避免激光束照射。 |
| 注意 | - ここを開くと可視及び不可視のレーザー光が出ます。 ビームを直接見たり、触れたりしないでください。 |

PRECAUTION

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

getting started

- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A groundingtype plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus. Service is also required if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Handling Cautions

- Before connecting other components to this recorder, be sure to turn them all off.
- Do not move the recorder while a disc is being played, or the disc may be scratched or broken, and the recorder's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the recorder.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this recorder. If this occurs, turn the DVD Recorder & VCR off and on again with the **POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The recorder will operate normally.
- Be sure to remove the disc and turn off the recorder after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the recorder for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

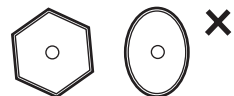
Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Disc Handling

- Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this DVD Recorder & VCR may be damaged.



Holding discs

- Avoid touching the surface of a disc where recording is performed.



DVD-RAM, DVD±RW and DVD±R

- Clean with an optional DVD-RAM/PD disc cleaner. Do not use cleaners or cloths for CDs to clean DVD-RAM/DVD±RW/DVD±R discs.



DVD-Video, Audio CD

- Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.

Disc Storage

Be careful not to damage the disc because the data on these discs are highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.
- If you move your DVD Recorder & VCR suddenly from a cold place to a warm place, condensation may generate on the operating parts, including the lens, and cause abnormal disc playback. In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again. It will work properly when condensation has evaporated.

Disc Specifications

DVD-Video

- A digital versatile disc (DVD) can contain up to 135- minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby 3D surround, allowing you to enjoy vivid and clear theater quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a double-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD-RW(V)/-R(V)/+R recorded is finalized, it is playable in a standard DVD player.

Audio CD

- An audio disc on which 44.1kHz PCM Audio is recorded.
- Plays CD-DA format audio CD-R and CD-RW discs. This unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

CD-R/-RW

❖ MP3 CD-R/-RW

- Only CD-R discs with MP3 files recorded with ISO9660 or JOLIET format can be played back
- Only MP3 files with the ".mp3" or ".MP3" extension can be used.
- Playable bitrate range is from 32 Kbps to 320Kbps.
- The unit can handle a maximum of 499 files and folders.
- DVD-RAM/±RW/±R discs that contain MP3 files can be played back.

getting started

❖ JPEG CD-R/-RW

- Only JPEG files with the ".jpg", ".JPG" extension can be used.
- The unit can handle a maximum of 1000 files and folders.
- Maximum size of progressive JPEG is 3M pixels.
- MOTION JPEG is not supported.
- DVD-RAM/±RW/±R discs that contain JPEG files can be played back.

❖ Using CD-R/-RW

- Use a 700MB(80 minutes) CD-R/-RW disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early play-back time, and all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.
- When recording from CDs for your personal use to CD-R/-RW discs, playability may vary depending on the contents and discs.

DVD-R/-RW Disc Playback and Recording

- Recording and playback can be performed on DVD-R/-RW discs in both Video and VR Modes.
- Once a DVD-R/-RW is recorded in VR or Video mode and finalized, you cannot perform additional recordings.
- Once a DVD-R/-RW is recorded in Video Mode and finalized, it becomes a DVD-Video.
- In both modes, playback can be performed before and after finalization, but additional recording, deleting and editing can not be performed after finalization.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to execute format. Be careful when executing Format because all the recorded data may be lost. You can change the disc mode only one times when the unused DVD-R disc is inserted.
- **DVD-R/-RW (VR mode)**
 - You can record multiple titles, edit, delete, partial delete, create a playlist, etc.
 - A disc that is recorded in this mode may not be played by existing DVD players.
- **DVD-R/-RW (Video mode)**
 - The disc can be played by an existing DVD player once it has been finalized.
 - If a disc that has been recorded in Video mode by a different manufacturer's recorder but has not been finalized it cannot be played or recorded by this recorder.
 - When programming is erased from a DVD-R, that space does not become available. Once an area on a DVD-R is recorded on, that area is no longer available for recording, whether the recording is erased or not.

DVD+R Disc Playback and Recording

- Once a DVD+R is recorded and finalized, it is playable in a standard DVD player.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programs and erasing programs before finalizing.
- When programming is erased from a DVD+R, that space does not become available. Once an area on a DVD+R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to update the recorded information after recording finishes.
- This product optimizes the DVD+R for each recording. Optimizing is executed when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is performed too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD+R discs recorded and finalized with a Samsung DVD video recorder. It may not be able to play some DVD+R discs depending on the disc and the condition of the recording.

DVD+RW Disc Playback and Recording

- With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).
- Finalizing is generally unnecessary when using a DVD+RW disc.

DVD-RAM Disc Playback and Recording

- For cartridge type DVD-RAM discs, remove the cartridge and use only the disc.
- You cannot play a DVD-RAM in most DVD players due to compatibility issues.
- Only DVD-RAM standard Version 2.0 discs can be played in this unit.
- DVD-RAM discs recorded on this unit may not work with other DVD Players. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.

COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD Recorder & VCR directly to your TV, not to a VCR. Connecting your recorder to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods 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.

Protection

- Program-protection: See page 70 "Locking a Title"
- Disc-protection: See page 76 "Disc Protection"
- * DVD-RAM/DVD±RW/DVD±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.
- * For more information on DVD recording compatibility, consult your DVD-RAM/DVD±RW/DVD±R manufacturer.
- * Use of poor quality DVD-RAM/DVD±RW/DVD±R discs may cause the following unexpected problems including, recording failure, loss of recorded or edited materials, or damage to the recorder.

Do not use the following discs!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM, Divx discs should not be used in this product.

[Note]

- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No Disc" or "The disc cannot be played. Please check the regional code of the disc." will be displayed.
- If your DVD-RAM/DVD±RW/DVD±R disc is an illegal copy or is not in DVD video format, it may also not be playable.

❖ Disc Compatibility

- Not all brands of discs will be compatible with this unit.
- The latest firmware upgrade to improve recording & playback quality can be downloaded from our web site. (Download Center at www.samsung.com)
- If disc compatibility problems continue, or there is an issue upgrading your recorder, contact the Call Center at 1-800-SAMSUNG.

getting started

GETTING STARTED

2

- 2 Warning
- 3 Precaution
- 10 General Features
- 11 Before Reading the User's Manual
- 12 How to use the DVD Recorder & VCR
- 13 Unpacking
- 17 Description

CONNECTING & SETTING UP

19

- 19 Connecting a set top/cable box or satellite receiver to DVD Recorder & VCR
- 21 Connecting HDMI/DVI to a TV
- 23 Connecting the video output
- 24 Connecting the Audio Cable
- 26 Connecting External Devices

SYSTEM SETUP

28

- 28 On-Screen Menu Navigation
- 28 Easy Setup
- 30 Clock Set
- 30 Setting up the Video Options
- 32 Progressive Scan
- 32 Setting up the Audio Options
- 35 Setting up the Features
- 37 Setting up the Options
- 38 Setting up the Parental
- 40 VCR Function Setting
- 41 Set top/Cable Box Control
- 42 **Set top/Cable Box/Satellite Receiver Brand Code Table**

PLAYBACK

46

- 46 Region code (DVD-Video only)
- 46 Logos of Discs that can be played
- 47 Disc types that can be played
- 48 Playing a Disc
- 49 Using the Disc Menu and Title Menu
- 49 Using the Search & Skip Functions
- 50 Slow Motion Play/Step Motion Play
- 51 Using the ANYKEY button
- 51 Selecting the Audio language
- 52 Remain
- 52 Selecting the Subtitle Language
- 52 Changing the Camera Angle
- 53 Playing Back an Audio CD (CD-DA)/MP3
- 54 Playing back a Picture Disc
- 55 Playing back a VHS Tape (VCR)

| | | |
|------------------|----|--|
| RECORDING | 57 | Recordable discs |
| | 58 | Recording Mode |
| 57 | 59 | Unrecordable Video |
| | 60 | Recording immediately |
| | 61 | Recording through The DV Input jack |
| | 62 | Making a One Touch Recording (OTR) |
| | 62 | Making a Timer Recording |
| | 64 | Editing the Timer List |
| | 64 | ERASING the Timer List |
| | 65 | Basic VCR Recording |
| | 66 | Check Remaining Time |
| | 66 | Special Recording Features |
| | 66 | Dubbing to DVD or VIDEO |
| | 68 | DV/D8 Dubbing |
| EDITING | 69 | Playing the Title List |
| | 70 | Basic Editing (Title List) |
| 69 | 73 | Advanced Editing (Playlist) |
| | 76 | Disc Setting |
| REFERENCE | 80 | Troubleshooting (DVD-VIDEO/DVD-RAM/ DVD±RW/DVD±R) |
| | 81 | Troubleshooting (DVD) |
| 80 | 82 | Troubleshooting (VCR) |
| | 83 | Problems and Solutions (Display error Message) |
| APPENDIX | 85 | Specifications |
| | 85 | |

getting started

GENERAL FEATURES

The DVD-VR375 allows you to record, edit and play high quality digital video on DVD-RAM/DVD±RW/DVD±R discs.

High quality digital audio/video recording and playback

You can record up to approximately 16-hours of video on a double side 9.4 GB DVD-RAM disc, up to 15-hours on a dual-layer 8.5GB DVD±R disc, and up to 8-hours on a 4.7 GB DVD-RAM/DVD±RW/DVD±R disc, depending on the recording mode.

Creating DVD video titles using DVD±RW/DVD±R discs

With the DVD-VR375, you can create your own DVD video titles on 4.7 GB DVD±RW/DVD±R or 8.5GB DVD±R discs.

A Variety of Recording Options

You can set your DVD Recorder & VCR to one of eight different recording modes, each varying in recording quality and length. Select a recording mode according to the time and picture quality you need.

For example, if picture quality is your top priority, select "HQ" (high quality).

If recording time is your priority, "SLP" may be a possible choice.

Dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs.

Dubbing digital camcorder content using DV input jack

Record digital camcorder images onto DVD-RAM/DVD±RW/DVD±R discs using the DV input jack (IEEE 1394-4pin). (See page 61.)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC, 2D Y/C Separating circuitry and Time Base Corrector processor technology provide you with the highest image playback and recording quality. (See page 23.)

Component progressive scan output video is available in both DVD and VCR modes.

When the HDMI cable is connected, 'off' can not be selected. (See page 32)

A variety of functions with an easy-to-use user interface

The Integrated menu systems and messaging functionality allow you to perform the desired operations easily and conveniently. With a DVD-RAM/DVD-RW/DVD-R(VR mode) disc, you can edit recorded images, create playlist, and edit videos in a specific sequence according to your needs.

HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the DVD Recorder & VCR to your TV.



Tunerless DVD Recorder & VCR

The DVD-VR375 does not have a TV tuner. Recording TV broadcasts is possible via Connection to Set Top/Cable Box, Satellite and Multi Channel Video Services.

EZ REC MODE

This function allows you Finalize a disc automatically. (See page 36.)

Simplex HD















The DVD-VR375 is SimplexHD™ verified.



BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user's manual.

Icons that will be used in manual

| Icon | Term | Definition |
|---|------------------|---|
|  | DVD | This involves a function available with DVD or DVD-R(V)/DVD-RW(V)/+R discs that have been recorded and finalized. |
|  | RAM | This involves a function available with DVD-RAM discs. |
|  | -RW | This involves a function available with DVD-RW discs. |
|  | -R | This involves a function available with DVD-R discs. |
|  | +RW | This involves a function available with DVD+RW discs. |
|  | +R | This involves a function available with DVD+R discs. |
|  | CD | This involves a function available with a data CD (CD-R or CD-RW). |
|  | JPEG | This involves a JPEG function available with CD-R/-RW or DVD±R/±RW/-RAM discs. |
|  | MP3 | This involves an MP3 function available with CD-R/-RW or DVD±R/±RW/-RAM discs. |
|  | VHS | This involves a function available with VIDEO Tape. |
|  | Caution | This involves a case where a function does not operate or settings may be cancelled. |
|  | NOTE | This involves tips or instructions on the page that help each function operate. |
|  | One-Touch button | A function that can be operated by using only one button. |
|  | ANYKEY button | A function that can be operated by using the ANYKEY button. |

About the use of this user's manual

- 1) Be sure to be familiarize yourself with the Safety Instructions before using this product. (See pages 2~7)
- 2) If a problem occurs, check the Troubleshooting section.
(See pages 80~82)

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getting started

HOW TO USE THE DVD RECORDER & VCR

Step 1 : Select the disc type

This unit can record on the following types of discs.

If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD±RW or DVD-RAM type disc. If you want to save a recording without making any changes, choose a non-rewritable DVD±R.



Step 2 : Format the disc to start recording

Unlike a VCR, the recorder automatically starts formatting when an unused disc is inserted.

Using a DVD-RAM/±RW/+R

When an unused DVD-RAM/±RW/+R disc is first inserted, the message "Unformatted Disc. Formatting. Please wait." will be displayed.

Using a DVD-R

It is not necessary to format a new DVD-R disc. When it is inserted, it will operate in Video mode.

It can also be formatted in VR mode in the setup menu.

You can change the disc mode only once when an unused DVD-R disc is inserted.



- You can only use either the VR or Video mode on a DVD-RW/-R, but not both at the same time.
- You can format a DVD-RW/-R to V or VR mode using disc setting.
It should be noted that the disc's data will be lost when changing formats.

Step 3 : Recording

There are two different recording methods, Direct Recording(recording a program you are currently watching) and Timer Recording.

Timer recording is classified as follows : Recording mode : HQ (high quality mode), HSP, SP (standard quality mode), LSP, ESP, LP, EP, SLP (Long duration mode) according to the recording mode.

When recording is set in the AUTO mode, the best quality picture is recorded with regards to the remaining time on the disc.

Step 4 : Playing

To start playback, select the title you want to play from the title list.

A DVD consists of sections called titles, and sub sections called chapters.

During recording, a title is created between two points where you start and stop recording. Chapters will be created automatically regardless of the disc type when it is set at the setup menu.

Step 5 : Editing a recorded disc

Editing on discs is easier than conventional video tapes. The recorder supports many different edit functions, possible only with DVDs.

With a simple and easy edit menu, you can operate various edit functions, such as delete, dubbing, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW/-R in VR mode)

With this recorder, you can create/edit a new playlist on the same disc without changing the original recording.

Step 6 : Finalizing & Playing on other DVD components

To play your DVD on other DVD players, finalizing may be necessary. First, finish all editing and recording operations, then finalize the disc.

When using a DVD-RW/-R disc in VR Mode

Although finalizing is generally unnecessary when playing the disc on a VR Mode compatible component, a finalized disc should be used for playback.

When using a DVD-RW/-R disc in Video Mode

The disc should be finalized first to enable playback on anything other than this recorder. No more editing or recording can be made on the disc once it has been finalized.

When using a DVD+R disc

You should finalize the disc to play it on other DVD players. No more editing or recording can be made on the disc once it has been finalized.

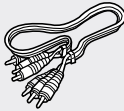



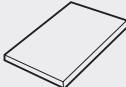
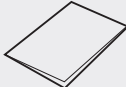


- You can finalize automatically using the EZ REC MODE. (See page 36)

UNPACKING

Accessories

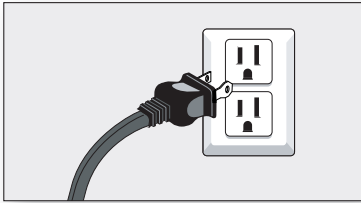
Check for the supplied accessories below.

| | | |
|---|---|---|
|  |  |  |
| <p>Video/Audio Cable (AC39-00073A)</p> | <p>IR Blaster cable (AK39-00055A)</p> | <p>Remote Control (AK59-00084A)</p> |
|  |  |  |
| <p>Batteries for Remote Control (AAA Size) (AC43-12002H)</p> | <p>Instruction Manual (AK68-01613A)</p> | <p>Quick Guide (AK68-01614A)</p> |

getting started

Connecting the Power Cord

After all connections are complete, plug the power cord into a wall outlet.

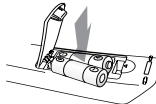


Preparing the Remote Control

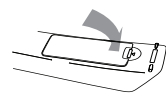
Installing batteries in the Remote Control



1. Lift the cover at the back of the remote control upward as shown.



2. Install two AAA size batteries.
Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.



3. Replace the cover.
Assuming typical TV usage, the batteries last for about one year.

If the remote control does not operate properly:

- Check the polarity +/- of the batteries.
- Check if the batteries are drained.
- Check if the remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations.
Do not put them in the household trash.

You can control part of another manufacturer's TV functions with this remote control.

- Buttons that can be controlled on your TV : TV POWER, INPUT SEL., TV VOL +/-, TRK/CBC CH/TV CH (▲▼), TV MUTE, 0~9, TV 100+/SET Button.

To determine whether your television is compatible, follow the instructions below.

1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV** button and enter the two-figure code simultaneously corresponding to the brand of your television by pressing the appropriate number buttons.

| BRAND | CODES |
|------------|--------------------|
| SAMSUNG | 01, 14, 15, 23, 31 |
| DAEWOO | 19 |
| EMERSON | 21 |
| GRADIENTE | 30 |
| HITACHI | 10 |
| JVC | 11 |
| LG | 06, 08, 18 |
| LOEWE | 28 |
| MAGNAVOX | 04 |
| MITSUBISHI | 13 |

| BRAND | CODES |
|------------|------------|
| NEWSAN | 27 |
| NOBLEX | 25 |
| PANASONIC | 12, 24 |
| RCA | 07, 29 |
| SANYO | 05, 20 |
| SHARP | 02, 16, 22 |
| SONY | 03 |
| TELEFUNKEN | 26 |
| TOSHIBA | 09 |
| ZENITH | 17 |

Result: If your television is compatible with the remote control, it will switch off.
It is now programmed to operate with the remote control.



- If several codes are indicated for your television brand, try each one in turn until you find one that works. If you replace the remote control's batteries, you must set the brand code again.

You can then control the television using the following buttons.

| Button | Function |
|-----------------------|--|
| TV POWER | Used to switch the television on and off. |
| INPUT SEL. | Used to select an external source. |
| TV VOL +/- | Used to adjust the volume of the television. |
| TRK/CBC CH/TV CH (▲▼) | Used to select the desired channel. |
| TV MUTE | Used to toggle the sound on and off. |
| 0~9 | Used to input number directly. |
| TV 100+/SET Button | Used to select channels over 100. |



- The various functions may not be able to be controlled on all televisions. If you encounter problems, operate the television directly.

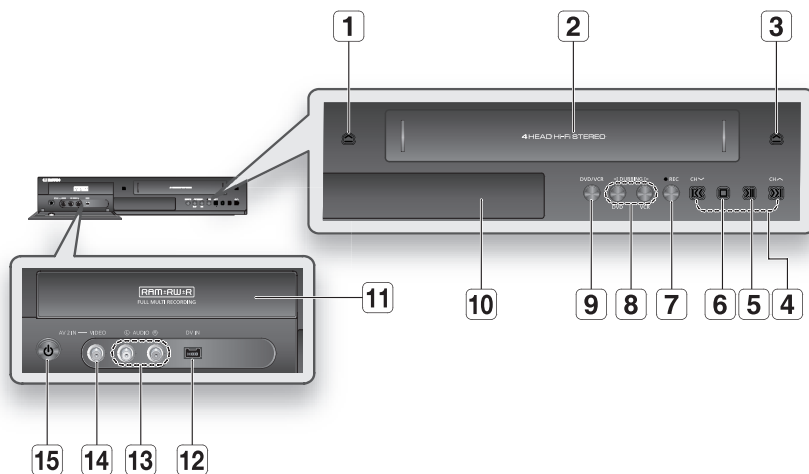
getting started

Tour of the Remote Control



DESCRIPTION

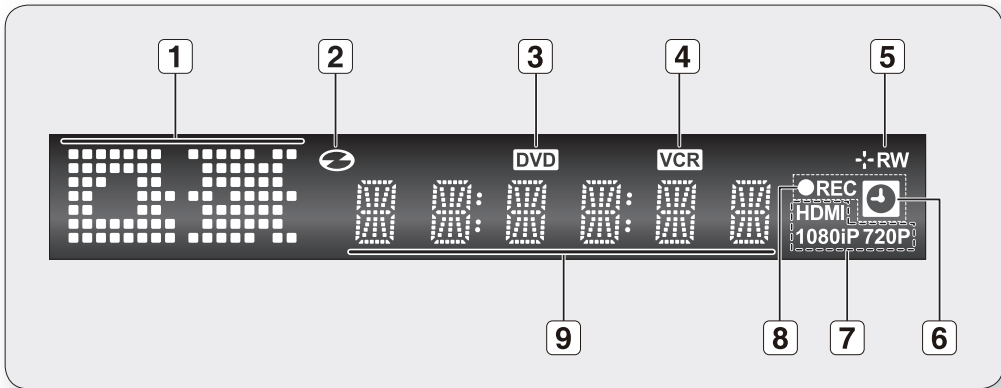
Front Panel



| | | |
|--|--------------------------------------|--------------------------------|
| 1 DVD OPEN/CLOSE BUTTON | 2 VCR DECK | 3 VCR EJECT BUTTON |
| 4 CH (V/∧), SEARCH/SKIP BUTTON | 5 PLAY/PAUSE BUTTON | 6 STOP BUTTON |
| 7 RECORD BUTTON | 8 DUBBING BUTTON | 9 DVD/VCR SELECT BUTTON |
| 10 FRONT PANEL DISPLAY | 11 DVD DECK | 12 DV INPUT JACK |
| 13 AUDIO L, R INPUT JACKS (AV 2 IN) | 14 VIDEO INPUT JACK (AV 2 IN) | 15 POWER BUTTON |

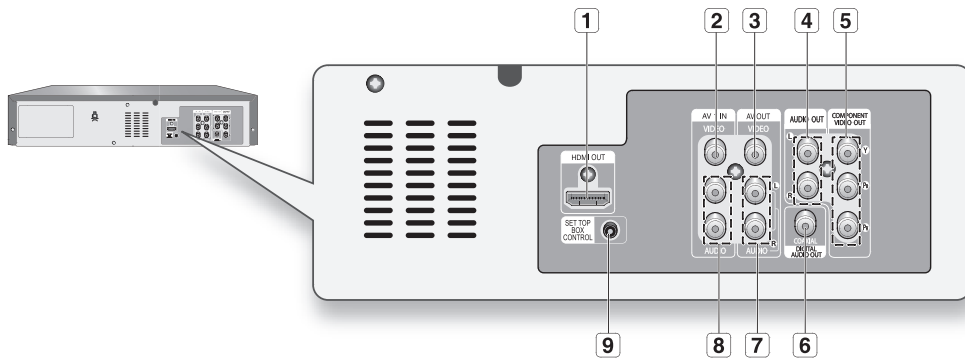
getting started

Front Panel Display



| | | |
|-------------------------------------|-------------------------------|-----------------------------|
| 1 Playback-related indicator | 2 In Disc Indicator | 3 DVD VIEW Indicator |
| 4 VCR VIEW Indicator | 5 Disc Media Indicator | 6 TIMER Indicator |
| 7 HDMI Indicator | 8 REC Indicator | 9 STATUS Indicator |

Rear Panel



| | | |
|--|--------------------------------------|---|
| 1 HDMI OUT | 2 VIDEO INPUT JACK (AV 1 IN) | 3 VIDEO OUT JACK (AV OUT) |
| 4 AUDIO OUT JACKS (COMPONENT OUT) | 5 COMPONENT VIDEO OUT JACKS | 6 DIGITAL AUDIO OUT JACK (COAXIAL) |
| 7 AUDIO OUT JACKS (AV OUT) | 8 AUDIO INPUT JACKS (AV 1 IN) | 9 SET TOP BOX CONTROL |

connecting & setting up

CONNECTING A SET TOP/CABLE BOX OR SATELLITE RECEIVER TO DVD RECORDER & VCR

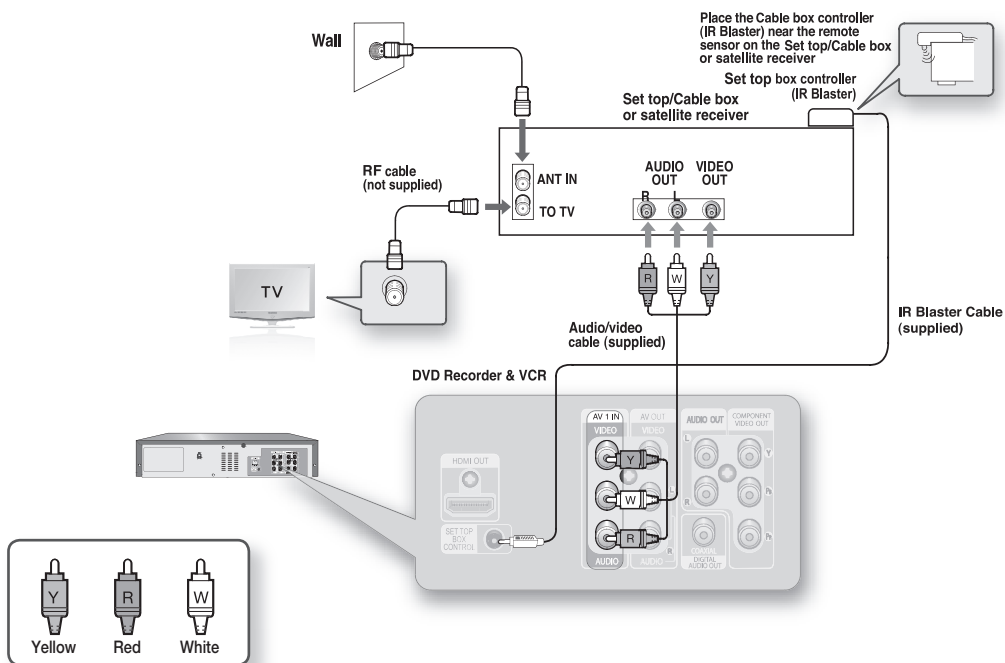
TV + Set top/Cable box or satellite receiver + DVD Recorder & VCR

With the connection below, you can watch and record your desired channel on the Set top/Cable box or satellite receiver. The DVD-VR375 does not have a TV Tuner, so you must connect a Set top/Cable Box or Satellite receiver to watch or record TV through DVD Recorder & VCR.

You can record channels by selecting the channel on the Set top/Cable box or satellite receiver.

You cannot record one channel while watching another channel.

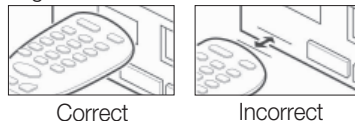
Be sure that the Set top/Cable box or satellite receiver is turned on.



Connecting the IR Blaster cable into the Set top/Cable Box Control jack

1. Find and Connect the included IR Blaster cable into the Set top/Cable Box Control jack of the DVD Recorder & VCR.
2. Find the Set top/Cable Box IR Sensor
 - A. Turn the Set top/Cable box Off.
 - B. Hold the Set top/Cable box's remote so that it touches the front of the Set top/Cable Box device (see Figure 1)

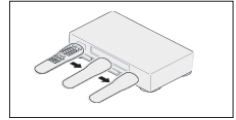
Figure 1



connecting & setting up

C. Move the Set top/Cable Box's remote across the front of the Set top/Cable Box while pressing the remote's power button On and Off (Figure 2).

Figure 2



(Press and release the power button each time you move the remote; holding down the button will not work.)

D. When the Set top/Cable box powers On, you have found the sensor.

E. Remember the location of the sensor.

3. Placing the IR Blaster.

Place the Set top/Cable box controller of the IR Blaster on top or underneath the Set top/Cable box approximately 1 inch in front of the sensor you found in 2 .

Use the double-sided tape to secure the IR Blaster.



- You must select a Set top/Cable box brand from the table on pages 42~44. If you do not know the brand name, please contact your cable provider.
- After setting up your Set top/Cable box or satellite receiver with the DVD Recorder & VCR through the IR Blaster cable, you need to set up the Set top/Cable Box Control menu. (See page 41)
- The DVD-VR375 does not have a TV Tuner.

CONNECTING HDMI/DVI TO A TV

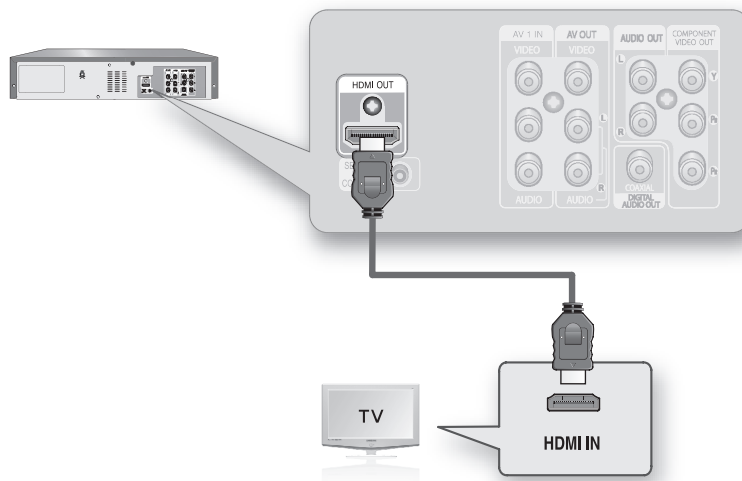
Connecting to a TV with an HDMI Jack

HDMI (High Definition Multimedia Interface)

HDMI enables you to make a digital video and audio connection with a single cable. Using HDMI, the DVD player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

Using an HDMI- HDMI cable(not included), connect the HDMI OUT jack on the rear of the DVD Recorder & VCR to the HDMI IN jack of your TV.

Press the input selector on your TV remote control until the HDMI signal from the DVD Recorder & VCR appears on your TV screen.



- To hear audio on your TV when using HDMI, set the digital audio output to PCM (2 channel). (See page 33)
- Depending on the HDMI device (TV/HDMI Receiver) you use, audio may not be supported.
If your TV does not support Dolby digital/DTS, Audio output is not available when you set the Digital output as Bitstream or select DTS On in the Audio setup menu. In this case, set the digital audio output to PCM or DTS Off.
- If you use an HDMI cable to connect a Samsung TV to the DVD recorder & VCR, you can operate the recorder using the TV remote control. (This is only available with SAMSUNG TVs that support Anynet+(HDMI CEC).)
(See page 36~37)
- HDMI (High Definition Multimedia Interface)
HDMI enables you to make a digital video and audio connection with a single cable.
Using HDMI, the DVD and VCR player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- Please check the *Anynet+* logo (If your TV has an *Anynet+* logo, then it supports Anynet+ function.)
- During DVD recording, you cannot watch VCR playback by pressing VCR, as the HDMI OUT jacks will output DVD video signals only.
- Connect the HDMI cable to the DVD Recorder & VCR when it is in Stop mode.

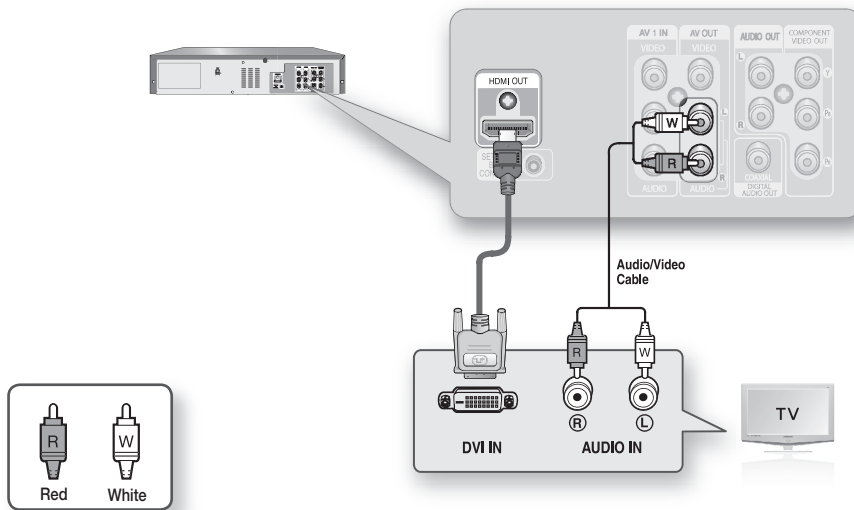
connecting & setting up

Connecting to a TV with a DVI Jack

Using an HDMI-DVI cable (not included), connect the HDMI OUT terminal on the rear of the DVD Recorder & VCR to the DVI IN terminal of your TV.

An HDMI to DVI connection requires a separate audio connection, using the audio cables, connect the AUDIO (red and white) OUT (AV OUT) terminals on the rear of the DVD Recorder & VCR to the AUDIO (red and white) IN terminals of your TV. Turn on the DVD Recorder & VCR and TV.

Press the input selector on your TV remote control until the DVI signal from the DVD Recorder & VCR appears on your TV screen.



- To set the HDMI output resolution (480p/720p/1080i/1080p), see page 31.

■ **HDMI (High Definition Multimedia Interface)**

HDMI enables you to make a digital video and audio connection with a single cable.

Using HDMI, the DVD and VCR player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

- HDMI is completely compatible with DVI.

The only difference between HDMI and DVI is that HDMI supports multi-channel audio.

■ **HDMI connection description**

HDMI connector - Both uncompressed video and digital audio data(LPCM or Bit Stream).

- Even though the DVD Recorder & VCR records analog audio and video, with HDMI the analog signal is converted to digital signal and is sent to the TV. Both DVD and VCR playback is possible through HDMI.

- If your TV does not support HDCP (High-bandwidth Digital Content Protection), snow noise appears on the screen.

■ **Why does Samsung use HDMI?**

Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Recorder & VCR) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no digital-to-analog conversion and is a pure digital signal from the DVD Recorder & VCR to your TV.

■ **What is the HDCP?**

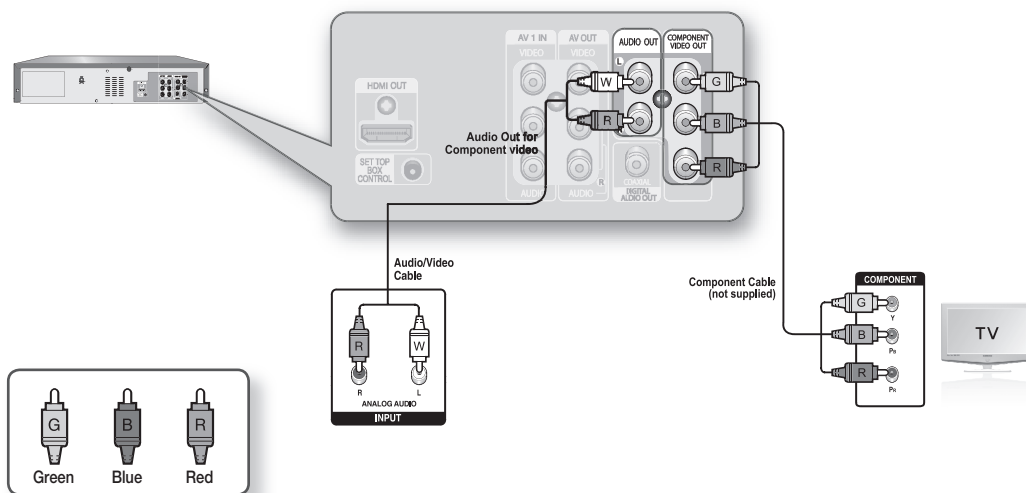
HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content output via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD, etc) and a display device (TV, projector, etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

CONNECTING THE VIDEO OUTPUT

Besides HDMI, there are several other ways to connect your DVD Recorder & VCR. Select one of the video connections on the following pages.

Connecting to Component Video Input Jacks (Y, P_B, P_R)

Connect Component video cables (not supplied) between the COMPONENT OUT (Y, P_B, P_R) jacks on the DVD Recorder & VCR and COMPONENT IN (Y, P_B, P_R) jacks on your TV.



- You will enjoy high quality images. Component video separates the picture element into black and white(Y), blue(P_B), red(P_R) signals to present clear and clean images.
- Connect the audio cables(white and red) between the Component AUDIO OUT jacks on the DVD Recorder & VCR and Component AUDIO IN jacks on your TV(or AV amplifier). (See pages 24~25)
- Progressive scan
 - If your TV supports Progressive Scan, you can enjoy higher quality video by Progressive Scan Setting. (The component cable has to be connected.)

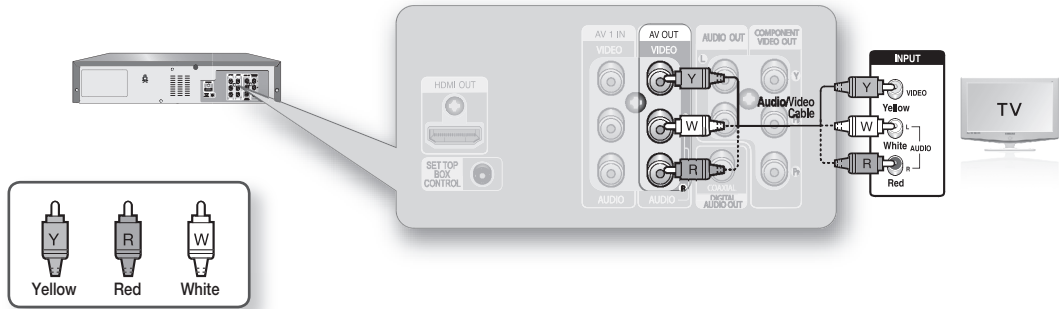


- Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a clearer, more stable, and flicker free image than interlaced video. The component output jack of the DVD player can be used for progressive output mode, which is only available with TVs that support progressive scan.
- Progressive Scan Output (480p)
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. If you experience 480p progressive scan picture problems, it is recommended that you switch the connection to the 'standard definition' output. If there are questions regarding TV set compatibility with this model, please contact our customer service center at 1-800-SAMSUNG.
- The Component jacks will not output video resolutions above 480p. To view 720p, 1080i and 1080p connect the DVD-VR375 to your TV with an HDMI-HDMI cable. With HDMI connected, set the progressive scan to alternate between all available resolutions. (See page 31)
- During DVD recording, you cannot watch VCR playback by pressing VCR, as the COMPONENT VIDEO OUT jacks will output DVD video signals only.

connecting & setting up

Connecting to a Video Input Jack

Connect a video(yellow) cable between the VIDEO(yellow) OUT jack on the DVD Recorder & VCR and VIDEO(yellow) IN jack on the TV.



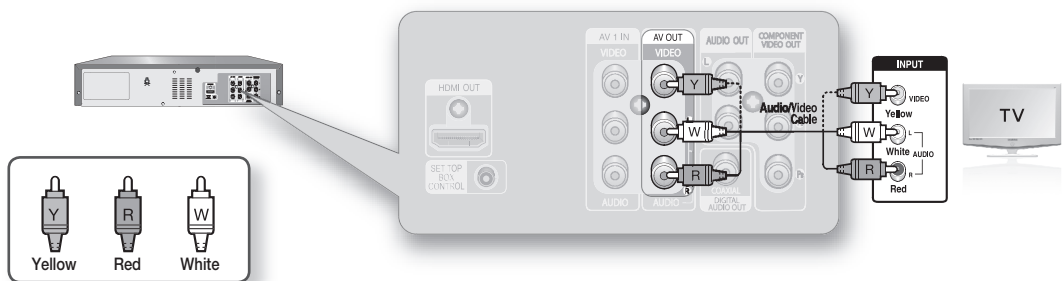
- You will enjoy regular quality images.
This connection outputs the 480i resolution to your TV.
- Connect the audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder & VCR and AUDIO IN jacks on your TV(or AV amplifier). (See pages 24~25)

CONNECTING THE AUDIO CABLE

Select one of the Audio connections on the following pages.

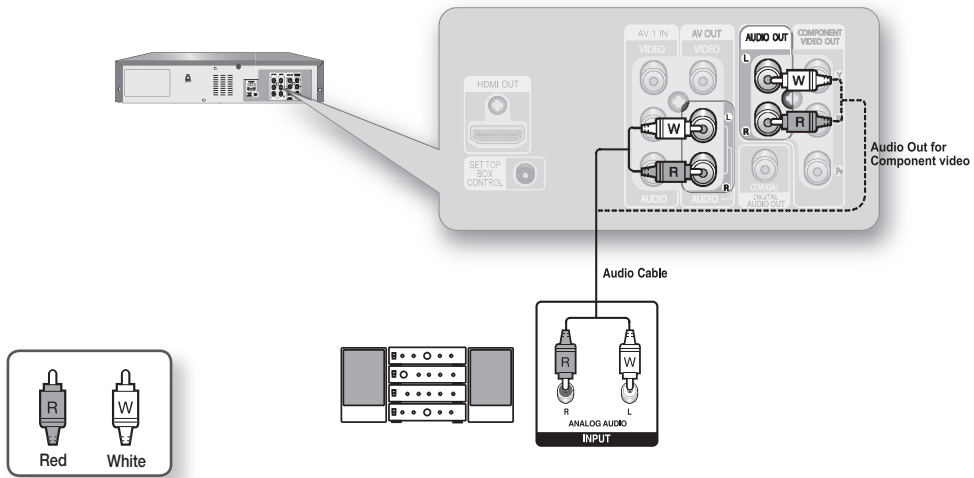
Connecting to your TV

This connection will use your TV's speakers.



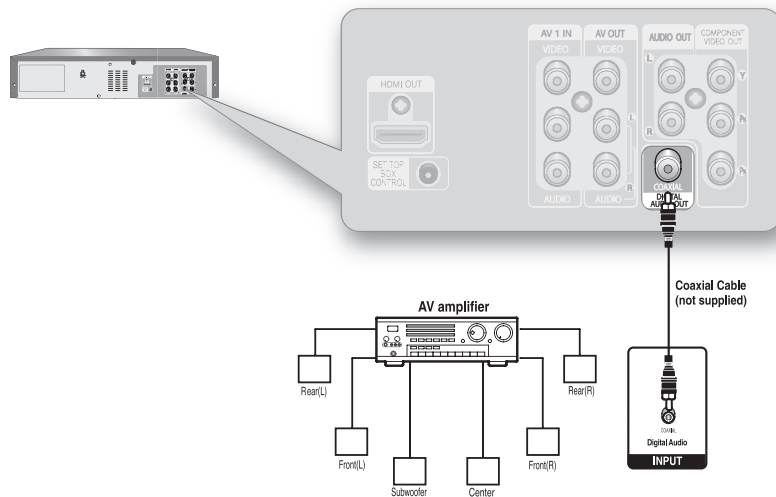
Connecting to a Stereo Amplifier with Analog Input Jacks

If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT (AV OUT) jacks.



Connecting to an AV Amplifier with a Digital Input Jack

If your AV amplifier has a Dolby Digital or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital or DTS sound, you will need to set up the audio settings. (See page 32~34)



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

Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved.

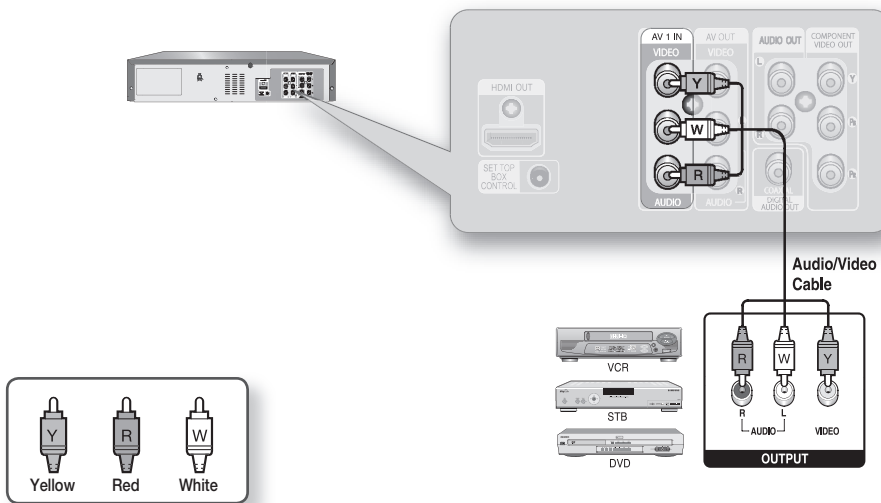
connecting & setting up

CONNECTING EXTERNAL DEVICES

This allows you to connect your DVD Recorder & VCR to other external devices and view or record their outputs.

Connecting a VCR, Set top/Cable box, satellite receiver or DVD player to the AV 1 IN Jack

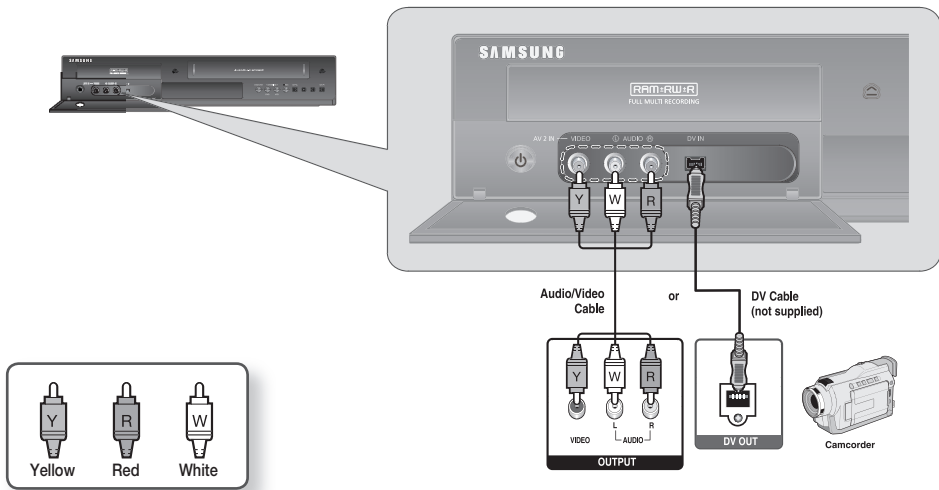
Connecting a VCR or external device to AV 1 IN jacks of the DVD Recorder & VCR.
You can record from connected equipment (VCR, Set top/Cable box, satellite receiver or DVD).



- You can also use the AV 2 IN jacks on the front panel of the DVD Recorder & VCR.
- Press the **INPUT SEL.** button to select AV1.
- Copy protected content cannot be recorded.
- Depending on your input connection, you must choose **AV 1 (Composite)**. (See page 44)

Connecting a Camcorder

You can record from connected equipment, such as a camcorder by using the AV2 IN or DV IN jacks on front of the DVD Recorder & VCR.



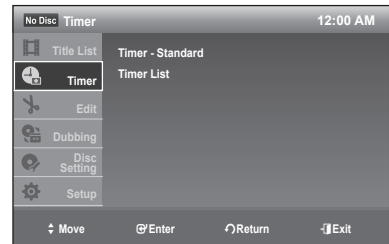
- Check your camcorder's owner's manual to see how to use the camcorder in this mode.

system setup

ON-SCREEN MENU NAVIGATION

The on-screen menus allow you to enable or disable various functions on your DVD Recorder & VCR. Press the MENU button to open the on-screen menu and then use the following buttons to navigate through the on-screen menus.

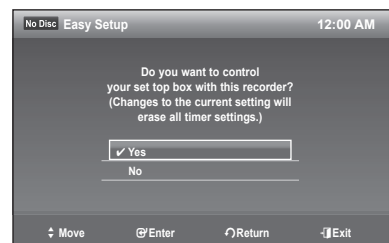
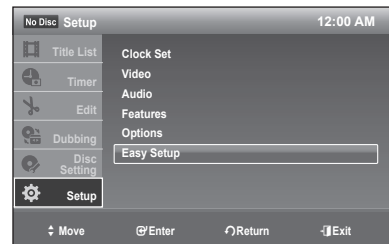
- 1. ▲▼ Buttons**
Press these buttons on the remote control to move the selection bar ▲▼ to cycle through the menu options.
- 2. ENTER Button**
Press this button on the remote control to confirm any new settings.
- 3. RETURN Button**
Press this button on the remote control to return to the previous menu screen displayed or to exit the on-screen menu.
- 4. EXIT Button**
Press this button to exit the on-screen menu.



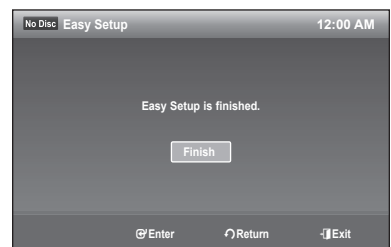
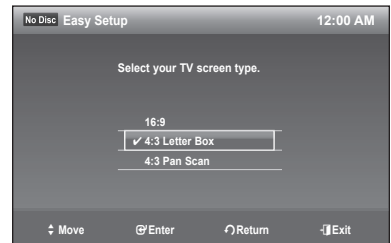
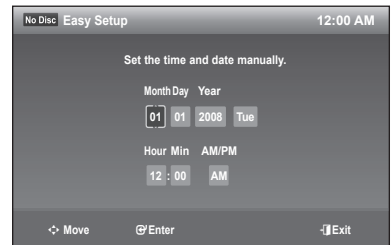
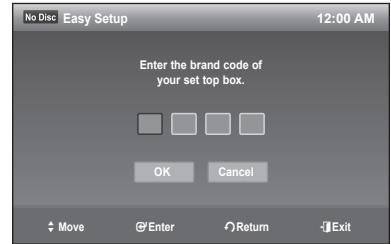
EASY SETUP

Follow the steps below to make the minimum number of basic adjustments for using the recorder. Settings are made in the following order.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Easy Setup**, then press the **ENTER** button.
The message "Follow the guide to make initial settings. Before you start. Check that you have made all necessary connections." is displayed.
4. Press the **◀▶** buttons to select **Start**.
5. Press the **ENTER** button.
The setup display for selecting the language used in the on-screen display appears.
6. Press the **▲▼** buttons to select the desired language, then press the **ENTER** button.
The setup display for Set top/Cable box or satellite receiver control appears.
7. Select whether you'll be using the Set top/Cable box or satellite receiver control, and press the **ENTER** button.
If you want to use the Set top/Cable box or satellite receiver control, select **Yes**.
If not select **No**, then go to step 11.
8. Press the number buttons to enter the brand code of your Set top/Cable box or satellite receiver. (see page 41)
To re-enter the code number, select **Cancel** and return to step 7.



9. Press the ◀ ▶ buttons to select **OK**, then press the **ENTER** button.
10. Select whether or not you use the Set Top Box Pass-through, then press the **ENTER** button. Please refer to page 39. The setup display for clock setting appears.
11. Press the ▲ ▼ ◀ ▶ buttons to select the Current Date and Time, then press the **ENTER** button.
12. Select the setting that matches your TV type. For details see page 30.
13. Press the ▲ ▼ buttons to select the desired TV screen type, then press the **ENTER** button. The message "Easy Setup is finished." is displayed.
14. Press the **ENTER** button. Easy setup is finished. All connections and setup operations are complete.



system setup

CLOCK SET

This menu is used to set the current time. You need to set the time to use timer recording.

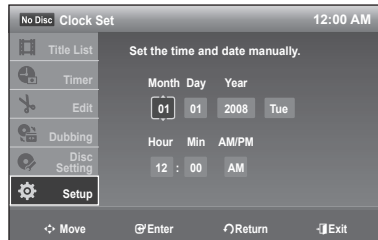
1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press **ENTER**.
3. Press the **▲▼** buttons to select **Clock Set**, then press **ENTER**.
4. Press the **▲▼◀▶** buttons to select the Current Date and Time, then press the **ENTER** button.

When the current time is stored in memory and then the set is powered off, the current time will appear in the front panel display.

▲▼ : Sets the value

You can set the value using the number (0-9) buttons.

◀▶ : Moves to items



SETTING UP THE VIDEO OPTIONS

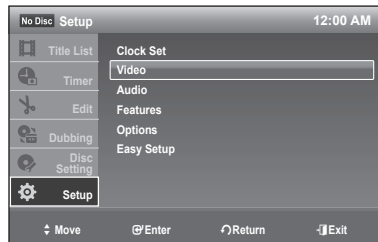
This function allows you to setup the video setting.

This function depends on disc type. It may not work for some disc types.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Video**, then press the **ENTER** button.
Video setup menu will be displayed.
4. Press the **▲▼** buttons to select the desired video option shown on the next few pages, then press the **ENTER** button.
5. Press the **▲▼** buttons to select the desired item, then press the **ENTER** button.



- Press the **RETURN** button to return to the previous menu.
Press the **EXIT** (⏻) button to exit the menu.



TV Type

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

- **16:9** : You can view the full 16:9 picture on your wide screen TV.
- **4:3 Letter Box** : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- **4:3 Pan Scan** : Select this for conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)



Resolution (HDMI)

This setting is used when the unit is connected by HDMI or DVI to Display devices (TV, Monitor, etc).

- 480p : 720 x 480p
- 720p : 1280 x 720p
- 1080i : 1920 x 1080i
- 1080p : 1920 x 1080p
- AUTO : It will be set to the possible maximum resolution supported by the TV.
- Connect the DVD-VR375 to your TV via HDMI or DVI. Set your TV's input to HDMI or DVI.

480p → 720p → 1080i → 1080p

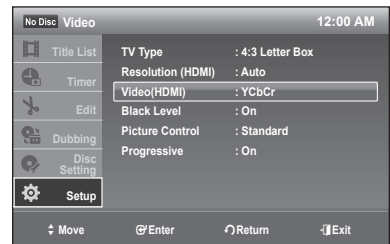
- If the DVD Recorder is connected to your TV with Component cables (no HDMI/DVI cable connected), the output resolution mode toggles between 480p/480i.
- You can also watch VCR output through HDMI (Video is upscaled to a maximum 1080p).



Video (HDMI)

Selects the type of output from the HDMI/OUT jack.

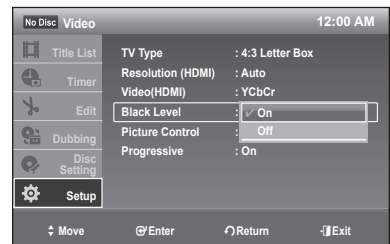
- **YCbCr** : Normally, select this when connecting to an HDMI device.
- **RGB** : Gives brighter colors and deeper black. Select this if colors are weak.



Black Level

Adjusts the black level of the screen.

- **On** : This is the standard NTSC reference black level for consistent brightness/contrast across all sources. Select this when you want to make the screen darker.
- **Off** : This will enhance the black level for increased brightness/contrast when viewing DVDs. Select this when you want to make the screen lighter.



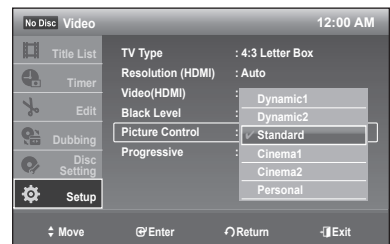
Picture Control

Selects the picture control for the video signals output from the AV output jacks.

You can adjust the DVD video signal from the recorder to obtain the picture quality you want.

Select the setting that best suits the program you are watching.

- This function can only be used when you have the Video Out(AV out) jacks connected and does not work with Component and HDMI.
- **Dynamic 1** : Produces a bold dynamic picture by increasing the picture contrast and the color.
- **Dynamic 2** : Produces a more dynamic picture than "Dynamic 1" by further increasing the picture contrast and the color.
- **Standard** : Displays a standard picture (function turned off).
- **Cinema 1** : White colors become brighter and black colors become richer, and the color contrast is increased.
- **Cinema 2** : Enhances detail in dark areas by increasing the black level.
- **Personal** : Adjusts Contrast, Brightness, Color and Hue using ▲▼◀▶ buttons.



system setup

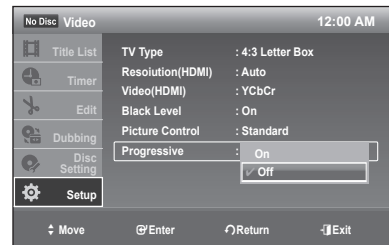
PROGRESSIVE SCAN

This function is available when video output is component. This setting enables you to select a desired progressive mode. To view 'Progressive scan mode', first connect the component cable. (See page 23) Be sure the Component cables are connected properly.

- On
- Off



- When the HDMI cable (not supplied) is connected, 'Off' can not be selected.
- Progressive setting is only available when the Recorder is in stop mode.



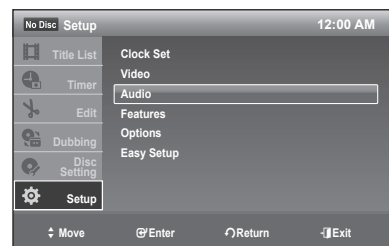
SETTING UP THE AUDIO OPTIONS

This function allows you to set up the Audio options.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Audio**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select the desired audio option shown on the next few pages, then press the **ENTER** button.
5. Press the **▲▼** buttons to select the desired item, then press the **ENTER** button.



- Press the **RETURN** button to return to the previous menu.
Press the **EXIT** (⏻) button to exit the menu.



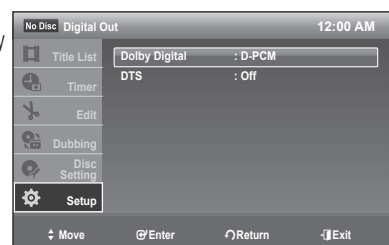
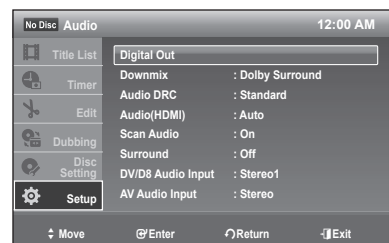
Digital Out

Selects audio options for signals output from the DIGITAL AUDIO OUT (COAXIAL).

The following setup items switch the method of outputting audio signals when you connect a component such as an amplifier (receiver) with a digital input jack. For connection details, see "AV Receiver Connections" on page 25.



- If you connect a component that does not accept the selected audio signal, a loud noise (or no sound) will come out from the speakers, and may affect your ears or cause speaker damage.



Dolby Digital (DVDs only)

Selects the type of Dolby Digital signal.

- **D-PCM** : Select this when the recorder is connected to an audio component that does not have a built-in Dolby Digital decoder.
- **Dolby Digital** : Select this when the recorder is connected to an audio component with a built-in Dolby Digital decoder.

DTS (DVD VIDEOS only)

Selects whether or not to output DTS signals.

- **On** : Select this when the recorder is connected to an audio component with a built-in DTS decoder.
- **Off** : Select this when the recorder is connected to an audio component without a built-in DTS decoder.

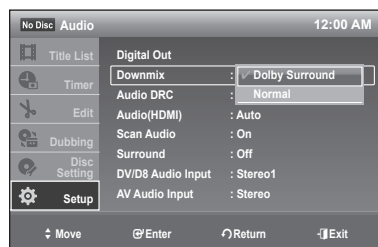
Downmix (DVDs only)

Switches the method for mixing down to two channels when you play a DVD which has rear sound elements (channels) or is recorded in Dolby Digital format.

- **Dolby Surround** : Select this setting to enjoy Multi-channel DVDs over two channels.
- **Normal** : Multi-channel audio signals are downmixed to two channels for use with your stereo.



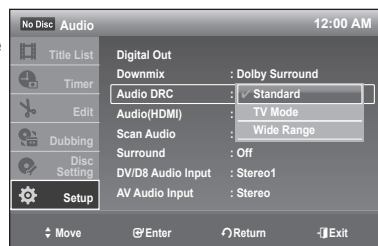
- To enjoy the surround effect of Dolby Digital, turn off the surround settings of this recorder.



Audio DRC (Dynamic Range Control) (DVDs only)

Makes the sound clearer when the volume is turned down when playing a DVD.

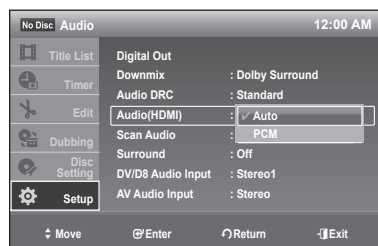
- **Standard** : Normal setting.
- **TV Mode** : Makes low sounds clear even if you turn the volume down.
- **Wide Range** : Gives you the feeling of being at a live performance.



Audio (HDMI)

Selects the output method from the HDMI OUT jack.

- **Auto** : Normal setting.
Outputs audio signals according to the status of the connected HDMI device.
If the HDMI OUT jack is connected to equipment not compatible with Dolby Digital, PCM will automatically be output, even when “Dolby Digital” is selected.
- **PCM** : Converts all audio signals to Linear PCM.



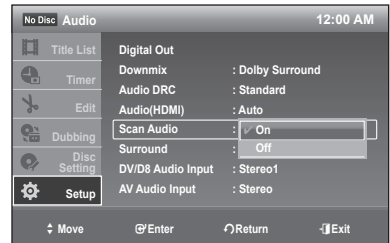
system setup

Scan Audio (DVDs only)

- **On** : Outputs audio signals during FF1 fast-forward of a DVD disc with Dolby Digital soundtracks.
- **Off** : Turns off the function. No sound is output during FF1 fast-forward.



- Sound will be interrupted during Scan Audio.
- If the audio format is LPCM, this function is not supported.



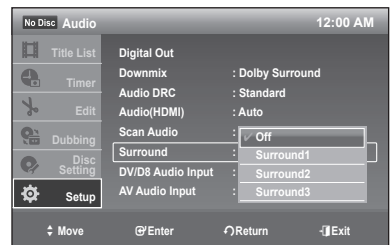
Surround

Turns on the surround function to create virtual rear speakers from a stereo TV or two separate front speakers.

- **Off** : No surround effect
- **Surround 1** : Creates one set of virtual surround speakers.
- **Surround 2** : Creates two sets of virtual surround speakers.
- **Surround 3** : Creates three sets of virtual surround speakers.



- When the playback signal does not contain surround audio signals, the surround effects will not be heard.
- When you select one of the surround modes, turn off the surround settings of the connected TV or amplifier (receiver).

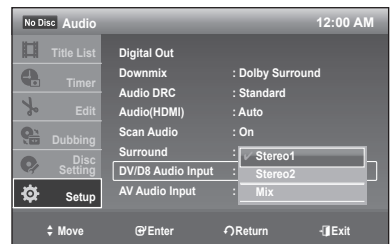


DV/D8 Audio Input

- **Stereo 1** : Records original sound only. Normally select this when dubbing a DV format tape from a camcorder.
- **Stereo 2** : Records additional audio only.
- **Mix** : Records both original and additional sounds.



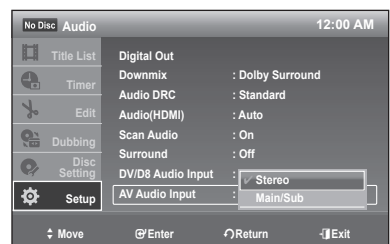
- Select "Stereo 2" or "Mix" if you have added a second audio channel when recording with your camcorder.



AV Audio Input

When recording from equipment connected to the AV input jacks to a DVD disc in this recorder, select AV input audio.

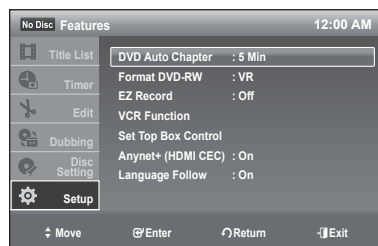
- **Stereo** : Records stereo sound only.
- **Main/Sub** : You can record audio from two different sources on the left and right channels with DVD-RWs/(VR mode) and DVD-Rs/(VR mode). You can select either the Main(left) or Sub(right) soundtrack when playing back. Please refer to the AUDIO button. (See page 16)



SETTING UP THE FEATURES

This function allows you to setup the Features setting.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Features**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select the desired features options shown on the next few pages, then press the **ENTER** button.
5. Press the **▲▼** buttons to select the desired item, then press the **ENTER** button.



DVD Auto Chapter

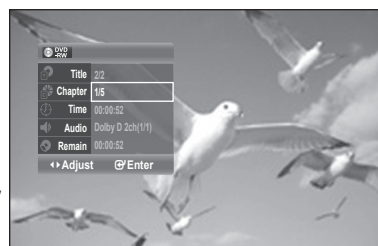
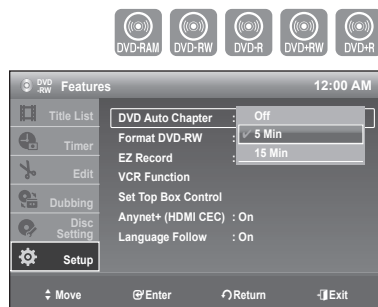
A DVD-Video consists of 'Titles' and 'Chapters'. When you record one program, it makes one Title. If you use this function, the Title will be divided into Chapters.

A recording(a title) is automatically divided into chapters by inserting chapter markings at specified intervals. The markings are inserted while the recording is being made.

1. Press the **▲▼** buttons to select **DVD Auto Chapter**, then press the **ENTER** button.
2. Press the **▲▼** buttons to select **Off**, **5Min** or **15Min**, then press the **ENTER** button.
 - **Off** : No chapter mark is inserted.
 - **5Min** : Inserts chapter marks at approximately 5 minute intervals.
 - **15Min** : Inserts chapter marks at approximately 15 minute intervals.

Press the **EXIT** button to exit the menu.

3. Press the **REC** button to start recording. (See page 58 about how to set the recording mode)
4. Press the **STOP** button to stop recording.
5. During playback, you can check the created chapters by pressing the **ANYKEY** button.

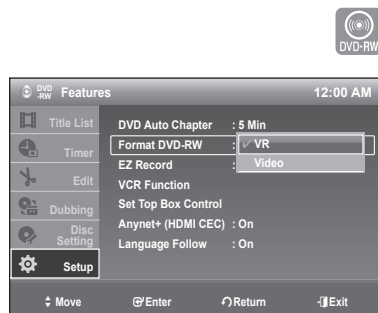


▪ You can create up to 99 chapters.

Format DVD-RW

When inserting a unused DVD-RW disc, you can select a recording format (VR mode or Video mode) according to your needs(Please refer to page 6).

- **VR** : Automatically formats the disc in VR mode
- **Video** : Automatically formats the disc in Video mode



system setup

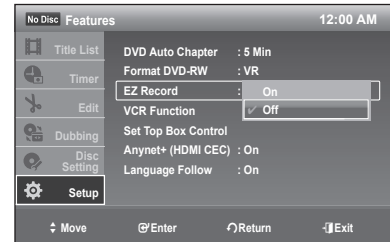
EZ Record

This function allows you finalize a disc automatically.

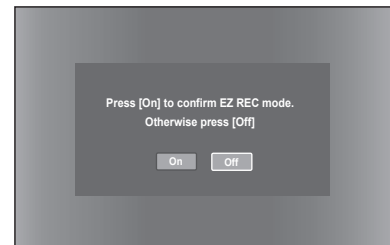


(V-mode)

1. Press the **▲▼** buttons to select **EZ Record**, then press the **ENTER** button.
2. Press the **▲▼** buttons to select **On**, then press the **ENTER** button. Press the **EXIT** button to exit the menu. You can operate EZ Record by using EZ REC MODE button on the remote control.
3. Insert a disc. If the disc is a new DVD-RW, it is initialized to V mode automatically.
4. Press the **REC (●)** button.
5. EZ Record function will automatically finalize the disc under the following conditions.
 - When you press the **OPEN/CLOSE** button on your DVD Recorder & VCR after recording on at least 30% of the disc. The tray will open after the disc has been finalized.
 - The above feature is available only when a DVD-RW(V)/-R(V)+R disc is inserted.



(Using setup menu)



(Using EZ REC MODE button on the remote control)

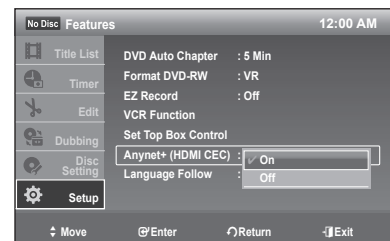


- If you select off, you must finalize the disc manually in the Disc Setting menu. (see page 78)
- The length of Recording is different according to recording mode. (see page 58)
- When the EZ Record is set to 'On', a DVD-RW disc will be formatted to V mode automatically, even if you select the R mode in the Format DVD-RW option.

Anynet+(HDMI CEC)

Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the DVD Recorder & VCR to a SAMSUNG TV using an HDMI Cable. (see page 21) (This is only available with SAMSUNG TVs that support Anynet+.)

1. Press the **▲▼** buttons to select **Anynet+(HDMI CEC)**, then press the **ENTER** button. Anynet+(HDMI CEC) items will be displayed.
2. Press the **▲▼** buttons to select **On**, then press the **ENTER** button.



For using Anynet+(HDMI CEC)

1. Connect the DVD Recorder & VCR to the TV by using an HDMI cable. (See page 21)
2. Set the Anynet+(HDMI CEC) to "On" on your DVD Recorder & VCR. (see above)
3. Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)

system setup

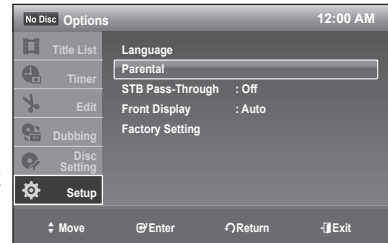
SETTING UP THE PARENTAL

The Parental function works in conjunction with DVDs that have been assigned a rating, which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Options**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select **Parental**, then press the **ENTER** button.

When you operate your DVD Recorder & VCR for the first time, the "Create the password" message will be displayed.

5. Enter a 4-digit password using the number buttons on the remote control.
The "Confirm the password" message will be displayed. Enter your password again.



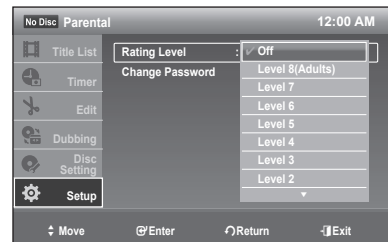
- Press the **RETURN** button to return to the previous menu.
Press the **EXIT** (⊙) button to exit the menu.

If you forgot your password

1. Remove the disc.
2. Press and hold the **CH** (∇/∧) button on the front panel for 10 seconds or more.
The tray opens and password reverts to the factory settings. See the next page to create a new password.

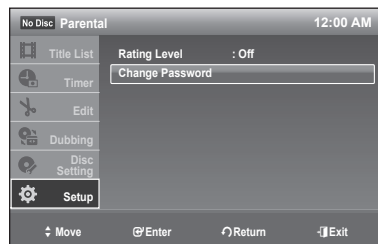
Setting the Rating Level

1. Press the **▲▼** buttons to select **Rating Level**, then press the **ENTER** button.
2. Press the **▲▼** buttons to select the **Rating Level** you want, then press the **ENTER** button.
For example, if you select up to 6, discs that contain 7, 8 will not play.
A larger number indicates that the program is intended for adult use only.



Changing the Password

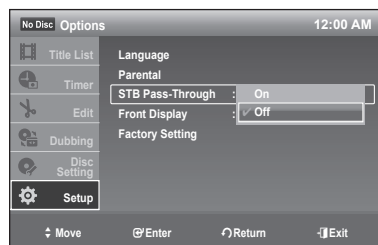
1. Press the ▲▼ buttons to select **Change Password**, then press the **ENTER** button. The "Enter your password" message will be displayed.
2. Enter a new 4-digit password using the number buttons on the remote control. The "Confirm the password" message will be displayed.
3. Enter your new password again using the number buttons on the remote control.



STB Pass-Through

If you select STB Pass-Through "On", you can watch the output (that is connected through AV1) of the Set top/Cable box or satellite receiver using all outputs when the Recorder is powered off.

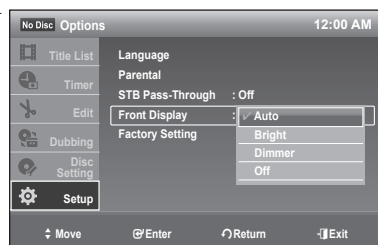
- **On** : Allows audio/video signals input from the AV1 IN (AUDIO/VIDEO) jacks to pass through to all output jacks without turning on the recorder.
- **Off** : No signals are sent when the recorder is turned off.



Front Display

Adjusts the lighting of the front panel display.

- **Auto** : Adjusts to low lighting when power is off.
- **Bright** : Maintains bright lighting when power is off.
- **Dimmer** : Maintains low lighting regardless of whether power is on or off.
- **Off** : Turns off the lighting when power is off. Maintains the lighting when power is on.



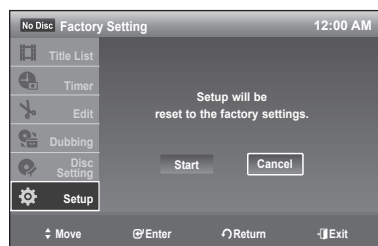
Factory Setting

Allows you to return the setup setting to their factory defaults.



- All of your previous settings will be lost.

1. Press the ▲▼ buttons to select **Factory Setting**, then press the **ENTER** button.
2. Select **Start** and press **ENTER**.
The setup settings return to their factory defaults.
3. Press **ENTER** when **Finish** appears.



system setup

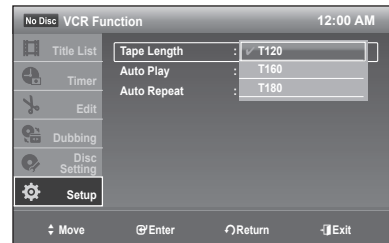
VCR FUNCTION SETTING

This function allows you to set up the VCR.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Features**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select **VCR Function**, then press the **ENTER** button.
5. Press the **▲▼** buttons to select the desired VCR option below, then press the **ENTER** button.
6. Press the **▲▼** buttons to select the desired item, then press the **ENTER** button.

Tape Length

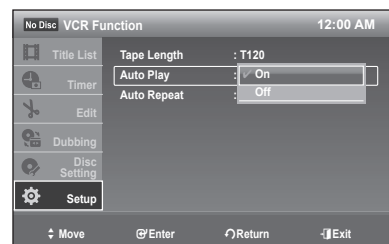
This information is usually printed on the tape box. The menu cycles through : T120, T160, T180. Once the cassette type is set, the VCR can display the amount of time remaining on the tape when you press the **INFO** button.



Auto Play

If you want your videotapes to play automatically when you insert them, turn on Auto Play.

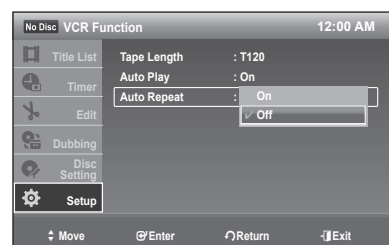
- **On** : The VCR will automatically begin playing a video tape when it is inserted, as long as the safety tab of the cassette has been removed.
- **Off** : Auto play is disabled.



Auto Repeat

It sets the VCR to play a tape repeatedly (unless a tape control is activated : Stop, Fast Forward or Rewind).

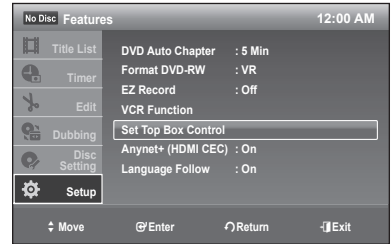
- **On**
- **Off**



SET TOP/CABLE BOX CONTROL

If you have your Set top/Cable box or satellite receiver connected as shown on page 19, it can be controlled after setting up this menu.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Setup**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Features**, then press the **ENTER** button.
Features menu will be displayed.
4. Press the **▲▼** buttons to select **Set Top Box Control**, then press the **ENTER** button.
Set Top Box Control menu will be displayed.
5. Press the **◀▶** buttons to select the desired item, then press the **ENTER** button.
 - **On** : Turns on the set top/Cable box or satellite receiver control function.
 - **Off** : Turns off the set top/Cable box or satellite receiver control function.
Select this if you do not want to use the supplied set top box controller (IR Blaster).



- When "Set Top Box Control" is set to "On", you can make the settings shown on the next few pages.
- Note that when you change "Set Top Box Control" to "On" or "Off", all timer recording settings will be canceled.
- When the power is off, you cannot use the "Set Top Box Control".

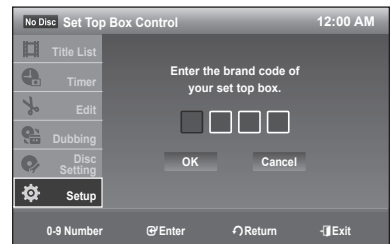
Brand Code

Enter the brand code of your Set top/Cable box or satellite receiver using the number buttons, then press the **ENTER** button.

(See "Set top/Cable box or Satellite Receiver Brand Code Table" on pages 42~44.)



- If you cannot get the recorder to control your Set top/Cable box or satellite receiver, check the connection and position of the IR Blaster cable.(page 19) If your Set top/Cable box or satellite receiver still does not operate with this recorder, contact your cable company to see if they can provide you with a compatible Set top/Cable box or satellite receiver.
- This menu may not work depending on your Set top/Cable box or satellite receiver.



system setup

SET TOP/CABLE BOX/SATELLITE RECEIVER BRAND CODE TABLE

Set top/Cable box brand

| Set top/Cable box brand | Code number |
|-------------------------|-------------------------------|
| 3M | 0033 |
| ABC | 0003, 0011, 0017, 0008, 0014, |
| Accuphase | 0007, 0001, 0013, 0206, 0047, |
| | 0237, 0033 |
| | 0003, 0013, 0047, 0001, 0011, |
| Acom | 0017, 0014, 0206, 0007 |
| | 1102, 0237 |
| Action | 0237 |
| Active | 0237, 1102 |
| Aim | 0015 |
| Allegro | 0315, 0153 |
| Amark | 0008, 0277, 0144, 0056 |
| American | 0060 |
| Americast | 0899 |
| Antronix | 0207, 0022 |
| Anvision | 0211, 0111 |
| Apache | 0770 |
| Arbatron | 0014, 0011, 0003, 0476 |
| Archer | 0153, 0022, 0207, 0039, 0797, |
| ASE | 0237, 0260 |
| | 1080 |
| | 1269 |
| Auna | 0267 |
| BCC | 0276 |
| Belcor | 0056, 0022 |
| Bell & Howell | 0014 |
| Bell Atlantic | 0641 |
| Bell South | 0899 |
| Bestlink | 0303 |
| Betavue | 0022 |
| British Telecom | 0003 |
| BVS | 0641 |
| Cable Healthcare | 0769, 0058 |
| Cable Star | 0056 |
| Cabletenna | 0022, 0039 |
| Cableview | 0022 |
| Century | 0153, 0618, 0008, 0315 |
| Citation | 0017 |
| Citizen | 0153, 0315, 0078, 0242 |
| Clearmaster | 0883 |
| ClearMax | 0883, 1247 |
| Color Voice | 0031, 0025 |
| Comband | 0233, 0232 |
| Comtec | 0274 |
| Comtronics | 0060, 0040 |
| Comtronics Eagle | 0040, 0060 |
| Contec | 0019 |
| Coolmax | 0883 |
| Curtis Mathes | 0015, 0242 |
| Dae Ryung Eagle | 0008 |
| Dae Ryung | 0008, 0877, 0477, 0277, 1877 |
| Diamond | 0035 |
| Digeo | 1476, 1897 |
| Digi | 0637 |
| Director | 0476 |
| Dumont | 0637 |
| Eagle Comtronics | 0060, 0028 |

| Set top/Cable box brand | Code number |
|------------------------------|------------------------------------|
| Eastern | 0002, 0274, 0418 |
| Electricord | 0078 |
| Emerson | 0797, 0303, 0015, 0014 |
| Everquest | 0040, 0015 |
| Focus | 0400 |
| Fosgate | 0276 |
| Fujitsu | 0246 |
| Funai | 0248, 0019 |
| FutureVision | 0649 |
| Garrard | 0153 |
| Gateway | 0764 |
| GC Electronics | 0207, 0056, 0330, 0016, 0040, |
| | 0077, 0030 |
| GE | 0232, 0233, 0144, 0021 |
| Gemini | 0015, 0070, 0057, 0242, 0014, |
| | 0797, 0013, 0400 |
| General Instrument | 0476, 0011, 0014, 0098, 0810, |
| | 0024, 0003, 0015, 0276, 1376, 1476 |
| GHZ | 0078 |
| Gibraltar | 0003 |
| Global | 1327 |
| GMI | 0069, 0057, 0015, 0797 |
| Goldstar | 0144, 0040 |
| Goodmind | 0770, 0797 |
| Gradiente | 1136 |
| Hamlin | 0020, 0009, 0034, 0259, 0015, |
| | 0273, 0206 |
| Healthway Interactive | 0058, 1020, 1015, 0769 |
| Hitachi | 0011, 0154, 0009, 0008, 0003, |
| | 0033, 0014, 0255 |
| Houston Tracker | 0011 |
| Hwalin | 0303 |
| Hytex | 0007 |
| IBM | 0670 |
| IIEC | 1018 |
| Interbuy | 0274 |
| Jasco | 0315, 0153, 0015 |
| Jebsee | 0014, 0400 |
| Jerrold | 0003, 0014, 0276, 0011, 0012, |
| | 0020, 0024, 0015, 0047, 0098, |
| | 0476, 0031, 0029, |
| 0111, 0032, 0054, 0810, 0028 | |
| Kuang Yu | 0024 |
| Leon | 0069, 0015 |
| LG | 0040, 0144 |
| Linsay | 0440 |
| Macom | 0033 |
| Maestro | 0812 |
| Magnavox | 0797, 0027, 0032, 0334, 0069 |
| Millennium | 0618, 0153 |
| Memorex | 0000 |
| Mitsubishi | 0003 |
| Motorola | 0476, 0276, 1476, 0810, 1376, |
| | 1254, 0400, 1106 |
| Movie Time | 0156, 0078, 0063, 0203 |
| MS | 0069, 0015, 1018, 0303 |
| MultiVision | 0012 |

| Set top/Cable box brand | Code number |
|-------------------------|-------------------------------|
| Myrio | 1117 |
| NET | 0274 |
| Next Level | 0764, 1316, 1315, 1314 |
| Nexus | 0770 |
| Northcoast | 0671, 0314 |
| Nova Vision | 0277, 0008 |
| Novabeam | 0277 |
| Novaplex | 0618, 0277, 0017, 0008 |
| NSC | 0156, 0070, 0203, 0063, 0400, |
| | 0012, 0618, 0022, 0637, 0010, |
| | 0044 |
| Oak | 0019, 0007, 0303, 0248, 0017 |
| Omega | 0015 |
| Omniview | 0371 |
| Optimus | 0021 |
| Pace | 0008,0237,0277,0477,0877, |
| | 1877,0810,1376,1476 |
| Pacific Bell | 0843 |
| Panasonic | 0107, 0021, 0144, 0008, 0124, |
| | 0307, 0000, 0040 |
| Panther | 0637 |
| Paragon | 0000, 0525, 0008 |
| Penney | 0637, 0000 |
| Philips | 0025, 0031, 0290, 0027, 0030, |
| | 0153, 0060, 0242, 0028, 0334, |
| | 0211, 0029, 0259,0307, 0652, |
| | 0013, 0069, 0649, 0255, 0305, |
| | 0032, 0111, 0317 |
| Pioneer | 0144, 0023, 0533, 1877, 0877, |
| | 0260, 0008, 0277, 0477 |
| Popular Mechanics | 0400 |
| Prelude | 0770 |
| Prism | 0012, 0013, 0059 |
| Protelcon | 0786 |
| Pulsar | 0000, 0040 |
| Quasar | 0000 |
| Quest | 0144, 0020 |
| R Line | 0040 |
| RadioShack | 0883, 0015, 0315, 0303, 0797 |
| Rampage | 0255 |
| Ranger | 1247 |
| RCA | 0021, 0060, 0797,0047, 1256, |
| | 0843 |
| Realistic | 0207, 0153 |
| Recoton | 0153, 0400 |
| Regal | 0259, 0020, 0273, 0279, 0276 |
| Regency | 0002, 0020, 0682 |
| Rembrandt | 0070, 0153, 0040, 0022, 0011 |
| RK | 0304, 0479 |
| Runco | 0000 |
| Samsung | 0040, 0144, 0023, 0003, 0070, |
| | 0000, 1898 |
| Sasktel | 1737 |
| Scientific Atlanta | 0008, 0277, 0017, 0006, 0237, |
| | 0025, 0477, 0207, 0877, 0003, |
| | 0012, 0000, 0021, 1877 |
| Seam | 0510 |
| Sears | 0510 |
| Sejin | 1265 |
| Siemens | 0246 |
| Sigma | 0019 |
| Signal | 0040, 0015, 0011, 0035 |
| Signature | 0011 |
| SkyCable | 0112 |
| Skygiant | 1091 |
| SL Marx | 0040 |

| Set top/Cable box brand | Code number |
|-------------------------|----------------------------------|
| Sony | 1006, 1506, 1606 |
| Spectradyne | 0769, 0058 |
| Spectravision | 0058 |
| Sprucer | 0021, 0307, 0010, 0144 |
| Standard Components | 0203, 0096, 0155 |
| Starcom | 0003, 0015, 0047, 0014, 0098, |
| | 0305 |
| Stargate | 0015, 0040, 0770, 0865, 0797, |
| | 0305, 0014 |
| Starquest | 0015 |
| StarSight | 0542, 0422 |
| Stealth | 0274 |
| Stellar One | 0807 |
| Storm | 1018, 0637 |
| Suena Madritel | 1230 |
| Supercable | 0276 |
| Supermax | 0883 |
| Sylvania | 0001 |
| Tandy | 0258 |
| Tatung | 0097 |
| Teac | 1018 |
| Technics | 0029 |
| Teknika | 0146 |
| Teleavia | 0040 |
| TeleCaption | 0221 |
| Televue | 0063, 0040 |
| Texscan | 0001, 0096, 0010 |
| TFC | 0310 |
| Thomson | 1256 |
| Timeless | 0418, 0274, 0040 |
| | 0012, 0013, 0029, 0019, 0059, |
| Tocom | 0017 |
| Tox | 0003 |
| Toshiba | 0000 |
| Trans PX | 0303, 0276, 0153, 0315 |
| Trinity | 1248 |
| Tristar | 0883 |
| TS | 0255, 0024, 1018, 0003, 0303 |
| Tusa | Tusa |
| TV COMM | 0035, 0019 |
| TV Guide | 1476 |
| TV86 | 0063, 0040 |
| Uniden | 0225, 0022 |
| Unika | 0207, 0153, 0022 |
| United Artists | 0007 |
| United Cable | 0003, 0014, 0011, 0276 |
| Universal | 0191, 0078, 0207, 0056, 0022, |
| | 0039, 0153, 0077, 0322, 0315 |
| US Electronics | 0276, 0008, 0003, 0017 |
| V2 | 0883 |
| Verizon | 0246 |
| Video way | 0250, 0000 |
| Video Works | 0124 |
| Vidtech | 0244 |
| Viewmaster | 0883, 0770 |
| Viewstar | 0258, 0289, 0060, 0063, 0211, |
| | 0618, 01530027, 0111, 0030, 0121 |
| Vision | 0883 |
| Visionetics | 1264 |
| Vortex View | 0883 |
| WaveMaster | 0565 |
| Wiso | 0078 |
| Zenith | 0000, 0525, 0054, 0017, 0039, |
| | 0153, 0060, 0315, 0191, 0899 |
| Zenitek | 0400 |

system setup

Satellite receiver brand

| Satellite receiver brand | Code number |
|--------------------------|---|
| AlphaStar | 0772 |
| Atlantic Telephone | 1333 |
| Bell ExpressVu | 0775 |
| Century | 0856 |
| Chaparral | 0216 |
| Crossdigital | 1109 |
| DirecTV | 1887, 0749, 0566, 0392, 1749, 0099, 1109, 1076, 1442, 1856, 0247, 1142, 1639, 0724, 0639, |
| Dish Network System | 0775, 1005, 1170 |
| Dishpro | 0775, 1005 |
| Echostar | 0775, 1170, 1005 |
| Expressvu | 0775 |
| Galaxis | 0863 |
| GE | 0566 |
| General Instrument | 0361, 0869, 0627 |
| GOI | 0775 |
| Gradiente | 0856 |
| Hitachi | 0819, 0749 |
| Houston Tracker | 0775 |
| HTS | 0775 |
| Hughes Network Systems | 0749, 1749, 1442, 1142 |
| Humax | 1176, 1359, 1048, 0863, 0283 |
| Innova | 0099 |
| Jerold | 0361, 0036, 0627 |
| JVC | 0775, 1170 |
| Magnavox | 0722, 0724 |
| McIntosh | 0869 |
| Memorex | 0724 |

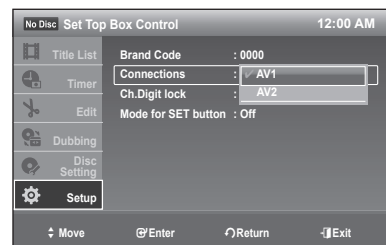
| Satellite receiver brand | Code number |
|--------------------------|---|
| Mitsubishi | 0749 |
| Motorola | 0869 |
| NEC | 1270, 0496, 0499, 0507, 0508 |
| Netsat | 0099 |
| Next Level | 0869 |
| Optimus | 0724 |
| Panasonic | 0247, 0701 |
| Paysat | 0724 |
| Philips | 1076, 1142, 0724, 0722, 0749, 1442, 1749, 0856, 0775, 0099 |
| Primestar | 0361, 0627, 0869 |
| Proscan | 0392, 0566 |
| QNS | 1367 |
| RadioShack | 0869 |
| RadioShack | 0566, 0392, 0143, 0855 |
| Samsung | 1109, 1276 |
| Sky | 0856, 0099, 1856 |
| Sony | 0639, 1639 |
| Star Choice | 0869 |
| Star Trak | 0869, 0772 |
| Thomson | 0566, 0392 |
| Tivo | 1142, 1442 |
| Toshiba | 0790, 0749, 1749, 1285 |
| UEC | 1333, 1358 |
| Uniden | 0724, 0722 |
| Video Cipher II Plus | 0361 |
| Zenith | 0856, 1856 |

Connections

Select the sub item (AV1 or AV2) using the ▲▼ buttons, then press the **ENTER** button.

If you connect your Set top/Cable box or satellite receiver to the recorder's audio/video input. (page 19)

- **AV1** : Select this when the Set top/Cable box or satellite receiver is connected to the DVD Recorder & VCR's AV1 IN jacks.
- **AV2** : Select this when the Set top/Cable box or satellite receiver is connected to the DVD Recorder & VCR's AV 2 IN jacks.

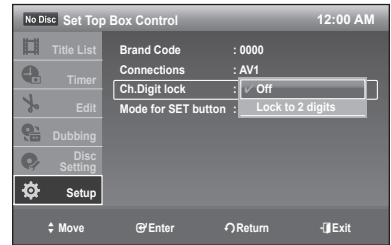


- See the instruction supplied with your Set top/Cable box or satellite receiver to confirm the box's antenna output channel.
- The DVD-VR375 does not have a TV tuner. Recording TV broadcasts is possible via Connection to Set top/Cable or Satellite receiver.
- If using STB Pass-Through, connect the Set top/Cable box or satellite receiver into the DVD Recorder & VCR's AV1 IN jacks.

CH Digit Lock

Select the sub item(Off or Lock to two digits) using the ▲▼ buttons, then press the **ENTER** button.

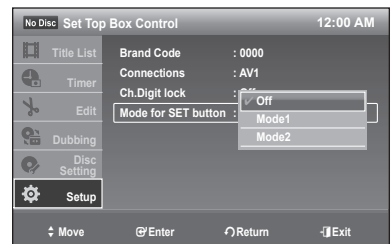
- **Off** : Select this when your Set top/Cable box or satellite receiver only accepts three or more digit channel numbers. Normally select this.
- **Lock to 2 digits** : Select this when your Set top/Cable box or satellite receiver only accepts a two digit channel number.



Mode for SET button

Some Set top/Cable box or satellite receiver require you to press SET after pressing the channel number. If your Set top/Cable box or satellite receiver operates this way, follow the instructions below to set Mode 1 or 2. Select the sub item(Off, Mode 1 or Mode 2) using the ▲▼ buttons, then press the **ENTER** button.

- **Off** : No code is sent when the **SET** button is pressed. Normally select this.
- **Mode 1 or Mode 2** : Sends the channel number you entered.



- If "Mode 1" does not work, try "Mode 2."
- If your Set top/Cable box or satellite receiver does not respond to either setting, contact the manufacturer of the Set top/Cable box or satellite receiver.

playback







This section introduces basic functions of playback by disc type.
Read the following information before playing a disc.

REGION CODE (DVD-VIDEO ONLY)

Both the DVD Recorder & VCR and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this DVD Recorder & VCR is described on the rear panel of the DVD Recorder & VCR.



LOGOS OF DISCS THAT CAN BE PLAYED

| | | |
|---|---|--|
|  |  |  |
| Dolby Digital | DTS | Digital Audio |
|  |  |  |
| Stereo | NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc. | MP3 |

DISC TYPES THAT CAN BE PLAYED

| Disc Types | Disc Logo | Recorded content | Disc Shape or minute |
|------------|---|------------------|-----------------------------|
| DVD-VIDEO |  | VIDEO AUDIO | Single sided(5") |
| | | | Double sided(5") |
| | | | Single sided(3.5") |
| | | | Double sided(3.5") |
| AUDIO-CD |  | AUDIO | Single sided(5") |
| | | | Single sided(3.5") |
| JPEG | | JPEG Image | Single sided(5") |
| | | | Single sided(3.5") |
| MP3 | | MP3 Audio | Single sided(5") |
| | | | Single sided(3.5") |
| DVD-RAM |  | VIDEO AUDIO | Single sided(5") (4.7GB) |
| | | | Double sided(5") (9.4GB) |
| DVD-RW |  | VIDEO AUDIO | 5" (4.7GB) |
| DVD-R |  | VIDEO AUDIO | Single Layer(5") (4.7GB) |
| | | | Double Layer(5") (8.5GB) |
| DVD+RW |  | VIDEO AUDIO | 5" (4.7GB) |
| DVD+R |  | VIDEO AUDIO | Single Layer(5") (4.7GB) |
| | | | Double Layer(5") (8.5GB) |

Discs That Cannot be Played

- DVD-Video with a region number other than “1” or “ALL”
- 3.9 GB DVD-R Disc for Authoring.
- A DVD-RW(V)/-R(V)/+R disc which has been recorded and not finalized in a different manufacturer's recorder.
- PAL discs
- DVD-ROM/PD/MV-Disc/Divx Video Disc, etc.
- Video CD/CVD/SVCD/CD-ROM/CDV/CD-G/CD-I



- This DVD Recorder & VCR can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
- Playback and/or recording may not work for some types of discs or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the disc is written in detail on the box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches and deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
- DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
- Discs with PAL programs recorded on them cannot be played using this product.

PLAYING A DISC

1. Press the **OPEN/CLOSE** button.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press **OPEN/CLOSE** button to close the disc tray.
 - Your DVD Recorder & VCR closes the disc tray and plays the disc automatically.
 - The recorder does not play discs automatically after initially being powered on.
 - When the recorder is powered on and a disc is in the tray, the unit will be activated and wait in stop mode. Press the **PLAY** button to start playback.
 - Power on the unit with the **PLAY** button if you wish to automatically play a disc in the recorder while it is powered off.
4. Press the **STOP** button to stop playback.



- When you stop playing the disc, the DVD Recorder & VCR remembers where you stopped. When you press the **PLAY** button again, it will pick up where you left off. (unless the disc is removed, the DVD Recorder & VCR is unplugged, or if you press the **STOP** button twice.) This function is only applicable to DVD-VIDEO, DVD-RAM, DVD±RW, DVD±R or Audio CDs (CD-DA).



- Do not move your DVD Recorder & VCR while playing, as this may cause damage to the disc.
- Make sure to press the **OPEN/CLOSE** button to open or close the disc tray.
- Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.
- Do not place foreign materials on or in the disc tray.
- Some functions may perform differently or be disabled depending on the disc type. If this occurs, refer to the instructions written on the disc case.
- Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
- After turning the power on, it will take a few seconds until the DVD Recorder & VCR operates.

USING THE DISC MENU AND TITLE MENU

Some discs contain a dedicated menu system that allows you to select special functions for title, chapters, audio track, subtitles, film previews, information on characters, etc.

For DVD-VIDEO Discs



Disc Menu : Press the **DISC MENU** button to enter the disc menu of the disc.

- Move to the setup menu related to playback operation.
- You can select audio language and subtitle etc., provided by the disc.

Title Menu : Press the **TITLE MENU** button to move to the title menu of the disc.

- Use this button if the disc contains more than one title. Some discs may not support the title menu functionality.

For DVD-RAM/DVD±RW/DVD±R Discs



Title List

Press the **TITLE LIST** button. The Title List is simply a list of titles on a disc. If a title is deleted, that title cannot be played again.

Playlist (DVD-RAM/-RW(VR)/-R(VR))

Press the **PLAY LIST** button. A playlist is a custom-made list of titles. When one playlist is played, only the titles within the playlist will play and then stop. Even if that playlist is deleted, the original recording will not be deleted.

USING THE SEARCH & SKIP FUNCTIONS

Searching Through a Chapter or Track



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

Each time you press the **SEARCH** button, the playback speed will change as follows.



| | |
|------------------------------------|---|
| DVD-VIDEO/DVD-RAM/ DVD±RW/DVD±R | ▶▶ FF1/◀◀ FR1 →▶▶ FF2/◀◀ FR2 →▶▶ FF3/◀◀ FR3 →▶▶ FF1/◀◀ FR1 |
| AUDIO CD (CD-DA) | ▶▶ FF1/◀◀ FR1 →▶▶ FF2/◀◀ FR2 →▶▶ FF1/◀◀ FR1 |

- You can scan the program in reverse order.

To return to normal speed playback, press the button.



- You can hear sound during forward search (FF1) in DVD-VIDEO/DVD-RAM/±RW/±R disc.
- The speed marked in this function may be different from the actual playback speed.

playback

Skipping Chapters or Tracks



During playback, press the **⏮** or **⏭** button on the remote control.

- **If you press the **⏮** button**

If you press the **⏮** button, it moves to the beginning of the chapter or track.

Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or track.

- **If you press the **⏭** button**

If you press the **⏭** button, it moves to the next chapter or track.

Skipping Ahead 30 Seconds



During the playback, press **F.ADV/SKIP** button to skip ahead exactly 30 seconds.

SLOW MOTION PLAY/STEP MOTION PLAY

Slow Motion Play



During Pause mode, press the **SEARCH** **⏮** or **⏭** button on the remote control for more than 1 second.

- **Each time you press the **⏭** button :**

→ **⏭** Slow 3 → **⏭** Slow 2 → **⏭** Slow 1

- **Each time you press the **⏮** button :**

→ **⏮** Slow 3 → **⏮** Slow 2 → **⏮** Slow 1

To return to normal speed playback, press the **⏪** button.

Step Motion Play



During Pause mode, press the **F.ADV/SKIP** button on the remote control.

- Each time the button is pressed, a new frame will appear.

To return to normal speed playback, press the **⏪** button.



- No sound is heard during Step or Slow mode.

USING THE ANYKEY BUTTON

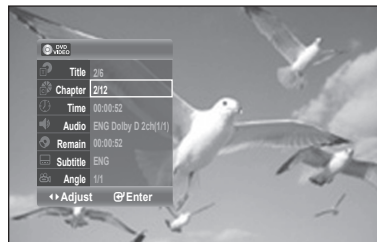
The **ANYKEY** functions allows you to easily search for a desired scene by accessing title, chapter, track and time. You can also change the subtitle and audio settings and set some features including Repeat, and Angle.

Moving to a desired scene directly



If you want to move to a certain title, chapter or time, use this function.

1. Press the **ANYKEY** button during playback.
2. Press the **▲▼** buttons to select **Title**, **Chapter** or **Time**.
3. Press the **◀▶** buttons or number (0–9) buttons to select the desired scene. (When searching a time, enter the time in the sequence of hours, minutes, seconds using the number buttons.)
4. Then, press the **ENTER** button.



- This may not work for some discs. When an audio CD (CDDA) or an MP3 disc is inserted, according to the disc type, the information display may not be appear.
- The Time Search function does not operate on some discs.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.

SELECTING THE AUDIO LANGUAGE

Audio languages may not work depending on the disc type. This is only available during playback. You can also operate this function by pressing the **AUDIO** button on the remote control.



1. Press the **ANYKEY** button during playback.
2. Press the **▲▼** buttons to select **Audio**, then press the **◀▶** buttons to select the desired audio language.
3. Press the **ENTER** button.



- Audio languages may be different because they are disc-specific.
- Some discs allow you to select the audio language for the disc menu only.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.

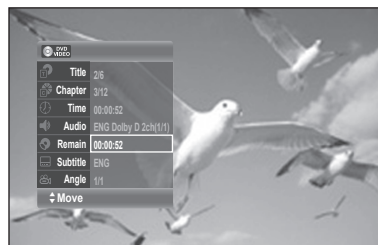


playback

REMAIN

You can check the remaining time of the current title.

1. Press the **ANYKEY** button during playback.



SELECTING THE SUBTITLE LANGUAGE



This enables you to select the available subtitle languages on a disc.

Subtitle languages may not work depending on the disc type. This is only available during playback.

You can also operate this function by pressing the **SUBTITLE** button on the remote control.

1. Press the **ANYKEY** button during playback.
2. Press the **▲▼** buttons to select **Subtitle**, then press the **◀▶** buttons to select the desired subtitle language.
3. Press the **ENTER** button.



- The subtitle display may be different depending on the disc type.
- If the subtitles overlap, disable the caption function on your TV.
- Some discs allow you to select the language for the disc menu only.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.



CHANGING THE CAMERA ANGLE



If a DVD-VIDEO contains multiple angles of a particular scene, you can use the Angle function.

If the disc contains multiple angles, the **ANGLE** appears on the screen.

1. Press the **ANYKEY** button during playback.
2. Press the **▲▼** buttons to select **Angle**, then press the **◀▶** buttons or number (0~9) buttons to select the desired angle scene.
3. Press the **ENTER** button.

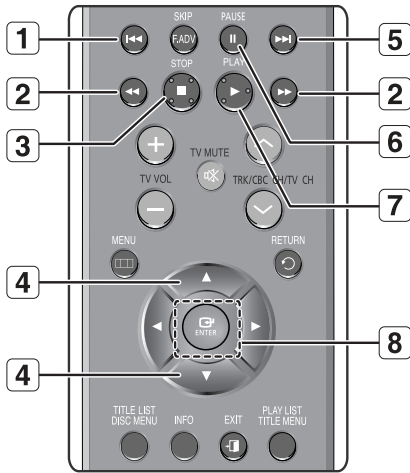


- This function is disc-dependent, and may not work on all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.



PLAYING BACK AN AUDIO CD (CD-DA)/MP3

Buttons on the Remote Control Used for Audio CD(CD-DA)/MP3 Playback



- 1** **⏮ button** : Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD Recorder & VCR moves to and plays the previous track. If you press this button within three seconds after playback starts, the previous track will be played. If you press this button after three seconds, the current track will be replayed from the beginning.

- 2** **Press the (⏪/⏩) buttons** : Fast Play (FF1/FR1,FF2/FR2) (Audio CD only)

- 3** **■** : Stops a track (song).

- 4** **▲▼** : Selects a track (song).

- 5** **⏭ button** : Plays the next track.

- 6** **⏸** : Pauses playback.

- 7** **▶** : Plays a track (song).

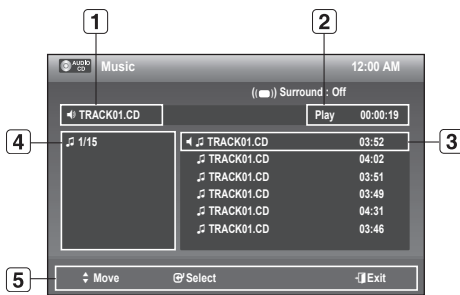
- 8** **ENTER button** : Plays the selected track (song).

● PLAYBACK

Playing an Audio CD(CD-DA)

1. Insert an audio CD (CD-DA) into the disc tray.
 - The audio CD menu appears and the tracks (songs) are played automatically.
2. Press the ▲▼ buttons to select the track (song) you want to hear, and then press the **ENTER** button.

Audio CD(CD-DA) Screen Elements



- 1** **Current track (song)** : Displays the number of the track currently being played.

- 2** This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.

- 3** Displays the track list (song list).

- 4** Displays the current file.

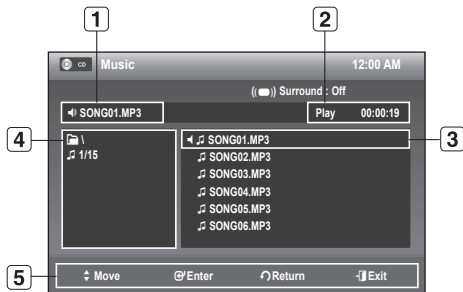
- 5** Displays available buttons.

playback

Playing an MP3 Disc

1. Insert an MP3 disc into the disc tray.
 - The menu is displayed
2. Press the ▲▼ buttons to select **Music**, then press the **ENTER** button.
3. Press the ▲▼ buttons to select the track you want to hear, and then press the **ENTER** button.

MP3 Screen Elements



- 1 **Current track (song):** Displays the number of the track currently being played.
- 2 This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
- 3 Displays the track list (song list).
- 4 Displays the current file.
- 5 Displays available buttons.

- ☑ If select the Music, MP3 files will only be displayed.
- ☑ If there are no MP3 files, empty folder will only be displayed.

PLAYING BACK A PICTURE DISC

1. Insert a JPEG Disc into the disc tray.
2. Press the ▲▼ buttons to select Photo, and then press the **ENTER** button.
3. Press the ▲▼◀▶ buttons to select a picture.
 - To see the next 6 pictures, press the ▶▶▶ button.
 - To see the previous 6 pictures, press the ◀◀◀ button.
- 4-1. If you press the **PLAY** (⏮) button, the Slide Show Speed screen will appear. Press the ◀▶ buttons to set the slide show speed, then press the **ENTER** button.
- 4-2. Press the **ENTER** button with a picture selected in the Album screen and select a display mode (**Album screen** (📄), **Slide show** (🖼️), **Rotation** (🔄) or **Zoom** (🔍)) using the ◀▶ buttons, then press the **ENTER** button.

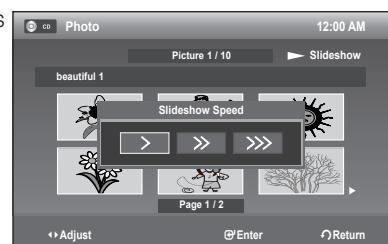
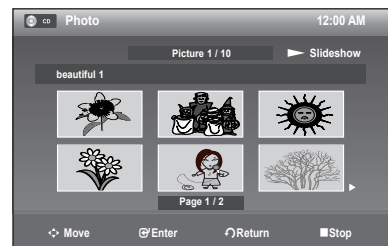
📄 : Returns to the Album screen.

🖼️ : The unit enters slide show mode.

Before the slide show begins, the picture interval (Slide show speed) must be set.

🔄 : Each time the **ENTER** button is pressed, the picture rotates 90 degrees clockwise.

🔍 : Each time the **ENTER** button is pressed, the picture is enlarged up to 4X(Four times the normal size).



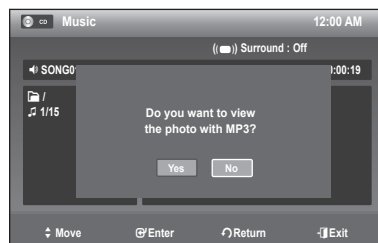
- Press the **ANYKEY** button to display the menu bar.
- Press the **ANYKEY** button again to clear the menu bar.



- If select the Photo, JPEG files will only be displayed.
- If there are no JPEG files, empty folder will only be displayed.

Music/Photo Simultaneous Playback

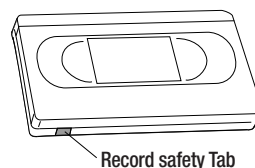
1. Insert a Mixed disc(Music+JPEG) into the disc tray.
2. Press the **▲▼** buttons to select MIX, and then press the **ENTER** button. The track list will be displayed.
3. Press the **ENTER** button. The message "Do you want to view the photo with MP3?" will be displayed.
4. Press the **◀▶** button to select 'Yes', then press the **ENTER** button. You can listen to the music while watching the photo.



- To operate this function, you have to select the disc containing both music files and photo file.

PLAYING BACK A VHS TAPE (VCR)

1. Insert a standard VHS tape into the VCR deck.
 - When a videotape is inserted, power will turn on automatically.
2. Press the **PLAY** (▶) button on the remote control or on the front panel of the unit. The videotape will begin to play automatically if the Record Safety Tab is removed and Auto Play is turned on.
3. Press the **STOP** (⏹) button on the remote control or on the front panel of the unit.



Tracking

The Tracking adjustment removes the white lines that sometimes appear during playback because of slight differences in recording decks.

During playback, press the **TRK/CBC CH/TV CH** (V/Λ) buttons to remove white lines from the picture.

Special VCR Playback Features

While a videotape is playing, you can enjoy a variety of special playback features.

Pause

In Play mode, press **PAUSE** (⏸) button to pause a single frame.

Frame Advance

In the Pause mode, press **F.ADV/SKIP** button to advance to the next frame.

FPS/Review

In Play mode, press Forward (⏩) button or Rewind (⏪) button to FPS/RPS at two speeds:

- Picture Search - Press and release repeatedly to advance the tape forward or backward at 2, 3, 5, 7 times normal speed.
- Jet Search - Press and hold to advance the tape forward or backward at 7 times normal speed.

Skip

In Play mode, press **F.ADV/SKIP** button to cue ahead exactly 30 seconds.

Press **F.ADV/SKIP** button repeatedly up to 4 times to cue ahead 2 minutes.

playback

Slow motion

In Pause mode, press (⏪) button for slow motion. Press the (⏪) button repeatedly to play slow motion at 1/10, 1/7, 1/5 normal speed. Press the **PLAY** button twice to resume normal viewing.

S-VHS Playback

The DVD Recorder & VCR allows you to playback high quality S-VHS tapes.

1. Insert an S-VHS tape into the VCR deck.
2. Press **PLAY** (⏪) button on the remote control or on the front panel to play an S-VHS tape.

Variable Search System

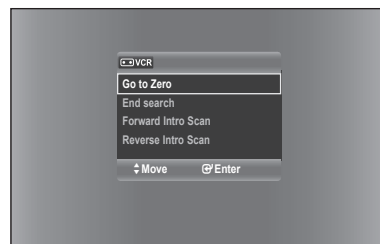
Each time you record a cassette on this DVD Recorder & VCR, an index is automatically marked on the tape when recording is started. The Search function allows you to fast-forward or rewind to a specific index and start playback from that point.

- This DVD Recorder & VCR uses a standard indexing system (VISS).
As a result, it will recognize indexes marked by other VCRs using the same system and vice versa.

Go To Zero

Use this feature when you want to search for the 0:00:00 counter position on a cassette.

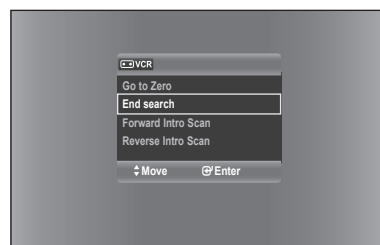
1. Press the **CANCEL** button at the point on the tape where you want to set the counter to 0:00:00.
2. While the cassette is stopped, press the **ANYKEY** button.
3. Press the **▲▼** buttons to select **Go To Zero**, then press the **ENTER** button.
The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.



End Search

Use this feature when you want to search for a blank position to record a program on a cassette.

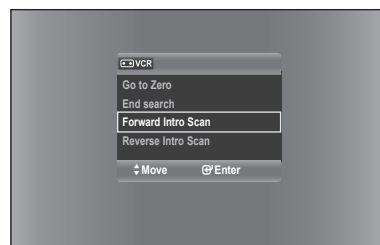
1. While a cassette is stopped, press the **ANYKEY** button.
2. Press the **▲▼** buttons to select **End Search**, then press the **ENTER** button.
The VCR will fast forward, searching for a blank position, and then automatically stop at that position.
If the VCR reaches the end of the tape during end search, the tape will be ejected.



Forward/Reverse Intro Scan

Use scan and play when you don't know exactly where a program is located on a cassette tape.

1. While a cassette is stopped, press the **ANYKEY** button.
2. Press the **▲▼** buttons to select **Forward Intro Scan** or **Reverse Intro Scan**, then press the **ENTER** button. When an Index mark is found the DVD Recorder & VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.








recording

This section explains various DVD recording methods.

This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

RECORDABLE DISCS

This recorder can record on the following discs.

| DVD-RAM | DVD-RW | DVD-R | DVD+RW | DVD+R |
|---|---|---|---|--|
|  |  |  |  DVD+ReWritable |  DVD+R |

- DVD±RWs and DVD-RAMs are rewritable.
- DVD±Rs are non-rewritable.

Compatibility between Samsung and other manufacturer's Recorders

- X : not possible

| Disc Types | Recording format | Recording Device | Finalizing | Additional Recording in Samsung Recorder |
|---------------|------------------|------------------|---------------|--|
| DVD-RAM | VR Mode | Samsung | X | Recordable |
| | | Other Company | X | Recordable |
| DVD-RW | VR Mode | Samsung | finalized | Not recordable |
| | | | not finalized | Recordable |
| | | Other Company | finalized | Not recordable |
| | | | not finalized | Recordable |
| | V Mode | Samsung | finalized | Not recordable |
| | | | not finalized | Recordable |
| Other Company | finalized | Not recordable | | |
| | not finalized | Not recordable | | |
| DVD-R | VR Mode | Samsung | finalized | Not recordable |
| | | | not finalized | Recordable |
| | | Other Company | finalized | Not recordable |
| | | | not finalized | Recordable |
| | V Mode | Samsung | finalized | Not recordable |
| | | | not finalized | Recordable |
| Other Company | finalized | Not recordable | | |
| | not finalized | Not recordable | | |
| DVD+RW | - | Samsung | X | Not recordable in some cases |
| | | Other Company | X | Not recordable in some cases |
| DVD+R | - | Samsung | finalized | Not recordable |
| | | | not finalized | Not recordable in some cases |
| | | Other Company | finalized | Not recordable |
| | | | not finalized | Not recordable in some cases |

recording



- Finalize
 - This closes the DVD-RW/±R so no additional recording can be done.
 - The DVD-RAM/+RW disc cannot be finalized.
- Unfinalize
 - This allows additional recording on a DVD-RW disc originally recorded on the DVD-VR375.
 - A DVD-RW disc that has been recorded by DAO(Disc At Once) on a PC cannot be unfinalized.
 - A DVD-RW disc that has been recorded in Video Mode of a different manufacturer's recorder cannot be unfinalized.
 - A DVD±R disc cannot be unfinalized.

Recording Formats

Since available functions differ depending on the disc type, select a disc that best fits your preference. When you insert an unused disc, the following message appears.

- DVD-RAM/±RW/+R : Format will be started automatically.
- DVD-R : Initializing the disc is unnecessary.

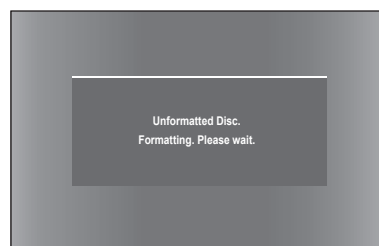
DVD-RAM/-RW(VR)/-R(VR)

- This mode involves multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
- Various editing options using a created Playlist.

DVD-RW(V)/-R(V)

- Chapters will be created automatically when you finalize recording on DVD-R/DVD-RW discs in Video mode.
- Simple editing (erasing titles/changing title name).

<DVD-RAM/±RW/+R>



RECORDING MODE

With the unit in Stop mode, select one of eight recording modes by pressing the REC SPEED button repeatedly for the desired recording time and picture quality. In general, picture quality improves as the recording time decreases.

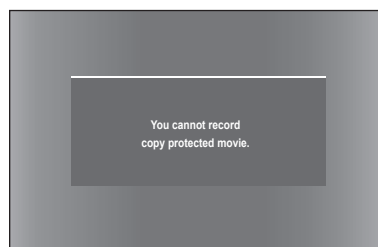
In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording.

| Recording Mode | Recording Times |
|----------------------------|----------------------------|
| | DVD-RAM/±RW/±R |
| HQ (high quality mode) | Approx. 1 hour |
| HSP | Approx. 1 hour 30 minutes |
| SP (standard quality mode) | Approx. 2 hours |
| LSP | Approx. 2 hours 30 minutes |
| ESP | Approx. 3 hours |
| LP (long recording mode) | Approx. 4 hours |
| EP | Approx. 6 hours |
| SLP (long duration mode) | Approx. 8 hours |

- The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs. (See page 47.)

UNRECORDABLE VIDEO

Pictures with copy protection cannot be recorded on this DVD Recorder & VCR. When the DVD Recorder & VCR receives a copy guard signal while recording, recording stops and the following message (to the left) appears on the screen.



Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never.

If you want to record a copy-once type program, use a DVD-RW with CPRM in VR Mode or DVD-RAM discs. ('O' : Supported, '-' : Not Supported)

| Media \ Signal type | Copy-Free | Copy-Once | Copy-Never |
|------------------------------------|-----------|-----------|------------|
| DVD-RW (Ver.1.1) | 0 | - | - |
| DVD-RW (Ver.1.1) with CPRM VR mode | 0 | 0* | - |
| DVD-R | 0 | - | - |
| DVD-RAM (Ver.2.0) | 0 | 0* | - |
| DVD+R | 0 | - | - |
| DVD+RW | 0 | - | - |

Once "Copy Once" has been recorded, additional recordings cannot be performed.

* compatible with CPRM.

❖ Content Protection for Recordable Media (CPRM)

CPRM is a mechanism that ties a recording to the media on which it is recorded.

It is supported by some DVD Recorder & VCRs, but not by many DVD players.

Each blank recordable DVD has a unique 64-bit media ID etched in the BCA(Burst Cutting Area).

When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID.

Disc contents cannot be copied to other media.

recording

RECORDING IMMEDIATELY



Before you start

1. Make sure the antenna cable is connected.
2. Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.
3. Check the remaining time on the disc.
DVD-RAM/DVD±RW/+R discs should be formatted or initialized in advance before beginning recording. Most new discs are sold unformatted. Make sure to format your unformatted discs before recording.
4. Press the **OPEN/CLOSE** button to close the disc tray.
Wait until **LOAD** disappears from the front panel display.

Recording the current program you are watching

1. Press the **TRK/CBC CH/TV CH** buttons or number buttons to select the station you want to record.
2. Press the **REC SPEED** button repeatedly, to select the recording Speed (quality).

→ HQ → HSP → SP → LSP → ESP → LP → EP → SLP →

3. Press the **REC** button.



Recording from external equipment you are watching

1. When using the set top/cable box or satellite receiver control, select the channel. When not using the set top/cable box or satellite receiver control, select the AV1 or AV2 input.
Select the channel on connected set top/cable box or satellite receiver before timer recording starts.
 2. Press the **REC SPEED** button repeatedly to select the recording Speed (quality).
- HQ → HSP → SP → LSP → ESP → LP → EP → SLP →
3. When your DVD Recorder & VCR is in the Stop mode, set the operation mode of your external devices to play mode.
 4. Press the **REC** button on your DVD Recorder & VCR when the image from which you want to start recording is displayed.

To pause recording

Press the **PAUSE** (⏸) button to pause a recording in progress.

- Press the **PAUSE** (⏸) button again to resume recording.
- You can switch channels the set top/cable box or satellite receiver by pressing the **TRK/CBC CH/TV CH** buttons while recording pauses.

To stop recording

Press the **STOP** button to stop a recording in progress.

- When using DVD-RAM/DVD±RW/±R discs, the message "Updating the information of disc. Please wait for a moment." is displayed.



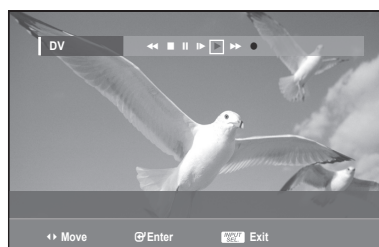
- You can not change the recording mode and the program while recording.
- Recording will stop automatically if there is no free space left on the disc.
- Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc, up to 49 titles onto a DVD+RW/+R disc.
- If the power interrupted due to power failure or other reasons, the title being recorded will not be saved onto the disc.
- Recording will stop automatically if a copy protected image is selected.
- Do not use DVD-R authoring discs with this unit.
- Refer to the user manual for your External Devices when recording from external equipment using the Audio/Video cable.

RECORDING THROUGH THE DV INPUT JACK

You may control a Camcorder connected to the DV Input jack on the DVD Recorder & VCR. Follow these directions to record onto a disc from a camcorder that has a DV output jack.

1. Connect the DV output jack of your camcorder to the DV input jack on the front of your DVD Recorder & VCR using a DV cable.
2. Power on your DVD Recorder & VCR and switch to DV mode by pressing the **INPUT SEL.** button on the remote control.
3. Press the **REC SPEED** button repeatedly to select the recording Speed (quality).

→ **HQ** → **HSP** → **SP** → **LSP** → **ESP** → **LP** → **EP** → **SLP** →



4. If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.
5. Select the Playback related icons on the upper part of the screen to playback the camcorder and find the starting position for dubbing.
6. To start recording, Press the ◀ ▶ buttons to select **REC (●)** icon on the top side of the screen, then press the **ENTER** button.
You can press the **REC** button on the remote control to start recording.
7. Press the **STOP** button on your DVD Recorder & VCR when the recording is finished.



- Some camcorders may not work with your DVD Recorder & VCR even if they have a DV output jack.
- Also refer to the user manual for your camcorder when recording through a DV jack.
- To display playback related icons on the screen, press any direction button on the remote control.
- You cannot dub from a camcorder onto a videotape through the DV Input jack on this unit.

recording

MAKING A ONE TOUCH RECORDING (OTR)

One-Touch Recording (OTR) allows you to add recording time in preset increments up to 8 hours by pressing the REC button repeatedly.




1. If you want to record through a connected external component, press the **INPUT SEL.** button to select an appropriate external input (AV1, AV2 or DV).
2. Press the DVD or VCR button on the remote, or DVD/VCR on the front panel to select the DVD or VCR mode.
3. Press the **REC** button to start recording.
4. While in Record mode, press the **REC** button again to activate the One-Touch Recording (OTR).
 - Record length 0:30 appears on the On-Screen Display and the DVD Recorder & VCR will record for exactly 30 minutes.
5. Continue press the **REC** button to add recording time in preset increments up to 8 hours.

0:30 → 1:00 → 1:30 → 2:00 → 2:30 → 3:00 → 3:30 → 4:00 → 4:30 → 5:00 → 5:30 → 6:00 → 6:30 → 7:00 → 7:30 → 8:00 → Normal

- The DVD Recorder & VCR stops recording automatically when the time has elapsed.

To stop recording

1. Press the **STOP** (■) button.
The message “Press STOP button once more to cancel Timer record.” is displayed.
 2. Press the **STOP** (■) button again.
The message “Updating the Information of disc.
Please wait for a moment.” is displayed.
-  ■ The timer counter decreases by the minute from the recording time set to 0:00, then the DVD Recorder & VCR stops recording.

MAKING A TIMER RECORDING

The clock (Setup – Clock Set) must be set before proceeding with a timer recording. (See page 30)



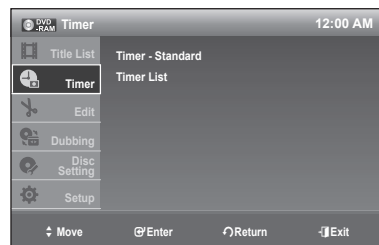
1. Press the **OPEN/CLOSE** button, and place a recordable disc on the disc tray(or load a tape into the VCR).
2. Press the **OPEN/CLOSE** button to close the disc tray. Wait until “LOAD” disappears from the front panel display.
3. With the unit in Stop mode, press the **MENU** button.
4. Press the **▲▼** buttons to select **Timer**, then press the **ENTER** button.
5. Press the **▲▼** buttons to select **Timer-Standard**, then press the **ENTER** button.

You can go to the Timer recording screen directly by pressing the **TIMER REC** button.
The Timer Recording screen is displayed.

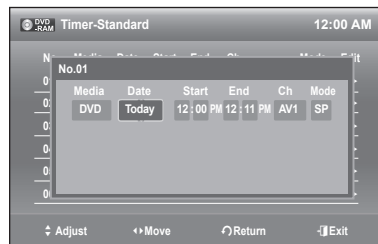
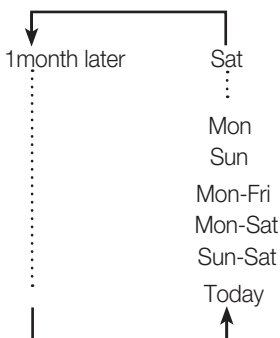
6. Fill in the items using the **▲▼◀▶** buttons.

◀▶ : Moves to the previous/next item,

▲▼ or 0~9 : To set or change items in the Scheduled Record List Menu.



- **Media** : Select the media to record (DVD or VCR).
- **Date** : Date that the timer recording starts
 - Sets the date using ▲ button.
 - To record the same program every day or the same day every week, press ▼ button.



- **Start/End Time** : Start and end time of the timer recording.
 - **Ch** : The video input source.
 - When using the set top/cable box or satellite receiver control, select the channel.
 - When not using the set top/cable box or satellite receiver control, select the AV1 or AV2 input.
- Select the channel on connected set top/cable box or satellite receiver's side before timer recording starts.

❖ Recording Mode (DVD)

AUTO : Select when you want to set video quality automatically. In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in HQ, HSP, SP, LSP, ESP, LP, EP and SLP modes and you can use this mode for timer recording.

HQ : Approx. 1 hour

HSP : Approx. 1 hour 30 minutes

SP (standard quality) : Approx. 2 hours

LSP : Approx. 2 hours 30 minutes

ESP : Approx. 3 hour

LP : Approx. 4 hour

EP (extended mode) : Approx. 6 hour

SLP (long duration mode) : Approx. 8 hours

The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs.

❖ Recording Mode (VCR)

AUTO : Select when you want to set video quality automatically.
It depends on remaining time on the VCR tape.

SP : Standard Play, for best picture quality.

EP : Extended Play, for maximum recording time(3 times SP).

7. Press the **ENTER** button.

- will appear on the front panel. It means that a timer recording is registered.

If the timer settings overlap

The first program has priority. After recording of the first program is complete, the second program starts being recorded.

8. Turn the power off to finish the timer recording.

- will blink if a disc or tape is not inserted.

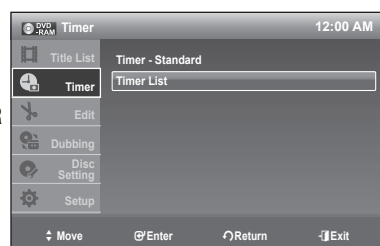
recording

- The timer recording time may differ from the set time depending on disc status and overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 3 minutes before the start time of the next recording.)

EDITING THE TIMER LIST

Follow these directions to edit the timer record list.

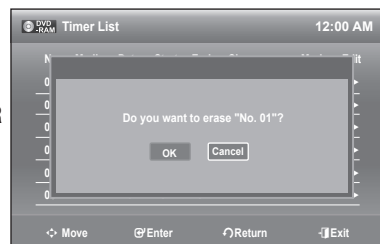
1. Press the **MENU** button.
2. Press the **▲▼** button to select **Timer**, then press the **ENTER** button.
3. Press the **▲▼** button to select **Timer List**, then press the **ENTER** button.
4. Press the **▲▼** button to select the number of the scheduled record list you want to edit, then press the **ENTER** button.
 - The Edit and Erase items are displayed.
5. Press the **▲▼** button to select **Edit**, then press the **ENTER** button.
 - The Timer Recording screen is displayed. Edit the items you want to modify.
See the Timer Recording section for more information on Timer Recording Input items. (See pages 62~63)
6. Press the **ENTER** button to confirm the edited setting.



ERASING THE TIMER LIST

Follow these directions to erase a title from the timer record list.

1. Press the **MENU** button.
2. Press the **▲▼** button to select **Timer**, then press the **ENTER** button.
3. Press the **▲▼** button to select **Timer List**, then press the **ENTER** button.
4. Press the **▲▼** button to select the number of the scheduled record list you want to erase, and then press the **ENTER** button.
 - The Edit and Erase items are displayed.
5. Press the **▲▼** button to select **erase**, then press the **ENTER** or **▶** button.
 - You will be prompted with a delete confirm message such as "Do you want to erase 'No.01'?"
6. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
 - The selected title will be erased from the list.



- You can not delete programs that are currently being recorded.

BASIC VCR RECORDING

Before starting

Check the remaining time on the tape.

You can record a TV show in progress by inserting a blank tape and pressing the ● (REC) button. You can even add time in preset increments up to 4 hours by pressing the ● (REC) button repeatedly.



- Be sure your videotape has a Record Safety Tab. If the tab is missing, you can cover the opening with a small piece of tape.



- Warning : Do not cover this opening unless you are sure you want to record over the tape.

1. Insert a blank VHS tape into the VCR deck.
 - Make sure the tape is long enough to record the entire program.
2. Press **CH** (●/●) or **INPUT SEL.** button repeatedly to select the channel or input source you want to record.
 - When using the set top/cable box or satellite receiver control, select the channel by pressing **CH** (●/●), or number buttons and **SET** on this recorder's remote control. The recorder's input is switched to the connected input(AV1 or AV2).
 - When not using the set top/cable box or satellite receiver control, select the connected input(AV1 or AV2) by pressing **INPUT SEL.** button, and then select the channel on the Set top/cable box or satellite receiver.
3. Press the **REC SPEED** button on the remote control to set the Record Speed to one of the following options:
 - **SP** – Standard Play, for best picture quality.
 - **EP** – Extended Play, for maximum recording time (3 times SP).



- The selected Record Speed will appear on the front panel and have on-screen displays.

Maximum Recording Time - SP vs. EP

| Tape Length | SP (Standard Play) | EP (Extended Play) |
|-------------|----------------------|--------------------|
| T-120 | Approx. 2 hrs | Approx. 6 hrs |
| T-160 | Approx. 2hrs 40 mins | Approx. 8 hrs |
| T-180 | Approx. 3 hrs | Approx. 9 hrs |



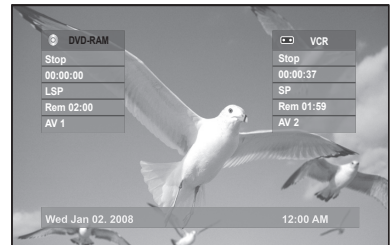
- When you watch or record on the VCR during DVD Recording, some function buttons may not operate. The message "This function is not available." will be displayed.

4. Press the ● (REC) button on the remote control or front panel.
For options while recording is in progress, see "Special Recording Features".
5. Press the **STOP** button to stop or finish a recording in progress.

recording

CHECK REMAINING TIME

Press the **INFO** button on the remote control.
The following information will be displayed.
(Current deck status, recording speed, remaining time, input channel, current time.)



SPECIAL RECORDING FEATURES

While a recording is in progress, you can watch a DVD or VCR. (for example, you can watch VCR playback while recording from a DVD and vice-versa)

1. Watch a different media during recording

You can watch a DVD during VCR recording or watch a Video tape during DVD recording.

- During VCR recording, insert a DVD in the DVD deck. The output will automatically change to the DVD and start playback. (DVD-Video discs only)
- During DVD recording, insert a Video tape in the VCR deck. The output will automatically change to the VCR and start playback. (Only if the tape is missing the safety tab)

2. To Add Recording Time

Refer to the One-Touch Recording (OTR). (See page 62)

3. Recording on the DVD and VCR at the same time

You can record on the DVD and VCR at the same time, but both modes must be set up to record separately.

- Press the DVD/VCR button to set the unit to DVD or VCR mode.
- Press CH +/- or INPUT SEL. button repeatedly to select the channel or input source for DVD or VCR.
- Choose REC mode for DVD or VCR.
- Press **REC** button for DVD or VCR.



- When the DVD Recorder & VCR is connected to your TV using HDMI or Component video cables, the VCR's playback screen will not be displayed during DVD recording.
- You cannot record different channels at the same time.
- The DVD and VCR cannot start recording at the exact same time. You must set one mode to start recording, then the other.

DUBBING TO DVD OR VIDEO

You can copy from the DVD to VIDEO or VIDEO to DVD.
Check the remaining time on the tape and disc.

Dubbing from DVD to VCR

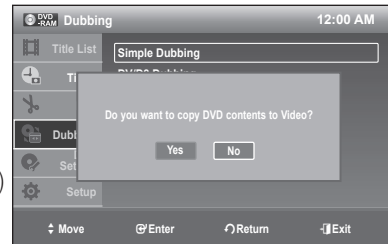
1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Dubbing**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Simple Dubbing**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select **DVD → VCR**, then press the **ENTER** button.
The Message "Do you want to copy DVD contents to Video?" will be displayed.
5. Press the **◀▶** buttons to select **Yes**, then press the **ENTER** button.

Direct dubbing DVD to VIDEO

- Insert a DVD disc you want to dubbing.
- Insert a VHS tape.
- Press the VCR dubbing button on front panel or remote control. (TO VCR)
- To stop recording, press the **STOP** button.



- Dubbing function is not allowed in progressive scan mode.
- You can record VCR in a state of HDMI connected. But you cannot dubbing from the DVD to VCR.

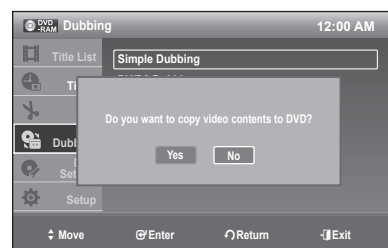
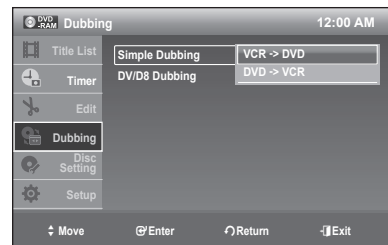


Dubbing from VCR to DVD

1. With the unit in Stop mode, press the **MENU** button in stop mode.
2. Press the **▲▼** buttons to select **Dubbing**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Simple Dubbing**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select **VCR → DVD**, then press the **ENTER** button.
5. The Message "Do you want to copy video contents to DVD?" will be displayed.
6. Press the **◀▶** buttons to select **Yes**, then press the **ENTER** button.



- The VCR will fast forward, searching for a start position and then automatically dubbing starts.
- The Start and End points may not match up exactly.



Direct dubbing VCR to DVD

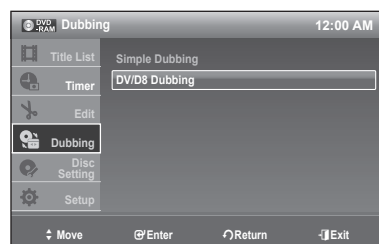
- Insert the VHS tape you want to dub.
- Insert a Recordable DVD disc.
- Press DVD dubbing button on front panel or remote control. (TO DVD)
- To stop recording press the **STOP** button.

recording

DV/D8 DUBBING

Before DV Dubbing, connect the DV output jack of camcorder to the DV input jack of DVD Recorder & VCR using a DV cable.

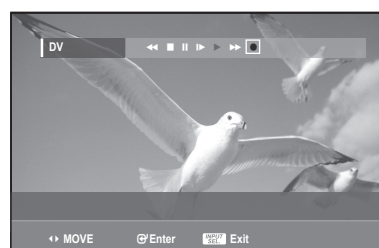
1. With the unit in Stop mode, press the **MENU** button in stop mode.
2. Press the **▲▼** buttons to select **Dubbing**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **DV/D8 Dubbing**, then press the **ENTER** button.



DV/D8 Simple Dubbing

You can find the dubbing start point to record on a disc easily by using the DV/D8 Simple Dubbing function. To setup, follow steps 1~3

4. Press the **▲▼** buttons to select **DV/D8 Simple Dubbing**, then the **ENTER** button.
The DV Tape Mode screen will be displayed.
5. Select the playback related buttons using the **◀▶** button to find the dubbing start point.
6. If you find start point, press the **◀▶** button to select ● (Record), then press the **ENTER** button.
Dubbing starts.



DV/D8 One Touch Dubbing

You can record the entire contents of a DV format tape onto a disc easily by using the DV/D8 One Touch Dubbing function.

To setup, follow steps 1~3 in page 68

4. Press the **▲▼** buttons to select **DV/D8 One Touch Dubbing**, then press the **ENTER** button.
DVD Recorder & VCR rewinds the tape in the digital video camera and then starts recording the tape contents from the beginning.
When playback of the tape stops, One Touch Dubbing ends automatically.



■ You cannot dub from a camcorder onto a videotape through the DV Input jack on this unit.

editing

This section introduces basic functions of DVD editing and explains both edit functions for recording on a disc and edit functions for the entire disc.

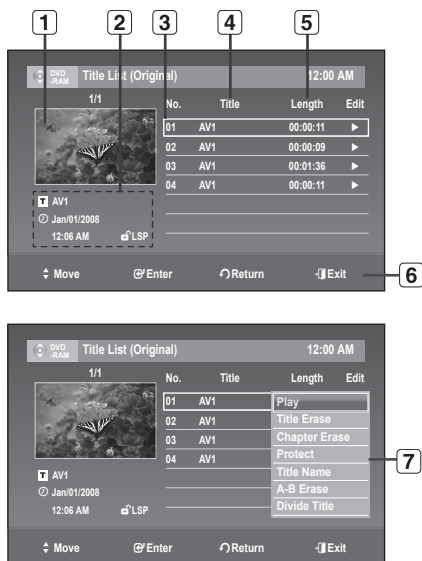
PLAYING THE TITLE LIST

Follow these instructions to play back a scene from the Title List.



1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a Title, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Play** to play the title list, then press the **ENTER** button.
The selected title will be played back.
4. Press the **STOP** button to stop playing.
To return the title list screen, press the **TITLE LIST** button.

Title List Screen Elements



- 1 Playback screen for recorded titles
- 2 Information window for the selected title: Title name, recording date, lock status, recording mode
- 3 Recorded title No.
- 4 Recorded title name
- 5 Recording Length (i.e., the playing time)
- 6 Button display
- 7 Edit menu
Play : Plays the selected title.
Title Erase : Erase the selected title from the list.
Chapter Erase : Erase the selected chapter from the title.
Protect : Locks or unlocks the selected title.
Title Name : Changes the name of a selected title.
A-B Erase : Erase the selected section (scene) from the title.
Divide Title : Divide a title into two.

- This may depend on the disc type.
- DVD-RW(V)/+RW/-R(V)/+R discs have limited editing functions.

BASIC EDITING (TITLE LIST)

Changing the Name of a Title (Title Name)

Follow these instructions to rename a title list name, i.e., to edit the title of a recorded program.

1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a title you want to rename from the Title List, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Title Name**, then press the **ENTER** button. The Title Name screen is displayed.
4. Select the desired characters using the **▲▼◀▶** buttons, then press the **ENTER** button.
 - **Backspace** : Moves the cursor one position backwards.
 - **Space** : Enters a blank and moves the cursor one forward (to the right).
 - **Delete** : Deletes the character at the cursor position.
 - **Clear** : Deletes all the character inputs.
 - **Finish** : Registers the character inputs.
5. Press the **▲▼◀▶** buttons to select **Finish**, and then press the **Finish** button.
The changed title name is displayed in the title field of the selected title.



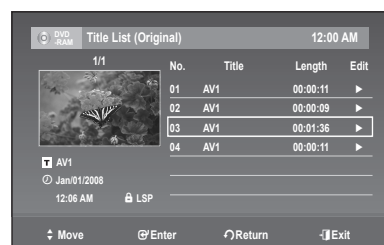
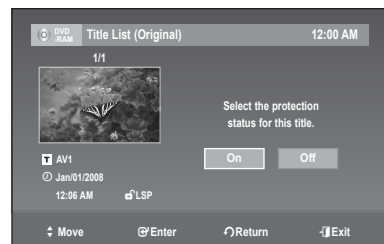
Locking (Protecting) a Title

Follow these instructions to lock a title to protect it from accidental deletion.

1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a title you want to protect in the Title List, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Protect**, then press the **ENTER** button.
4. Press the **◀▶** buttons to select **On**, then press the **ENTER** button. The lock icon on the information window for the selected title changes to the locked status. (🔒 → 🔒)



(VR mode)



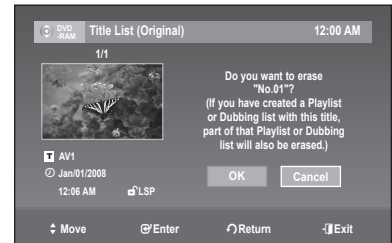
Erasing a Title (Title Erase)

Follow these instructions to delete a title from the Title List.

1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a title you want to erase in the Title List, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Title Erase**, then press the **ENTER** button.
You will be prompted with a confirmation message.
DVD-RAM(VR), DVD-RW(VR mode) : Since a Playlist is present, the message 'Do you want to erase "No.01"? (If you have created a Playlist or Dubbing list with this title, part of that playlist or Dubbing list will also be erased.)' is displayed.
DVD-RW(Video mode),DVD+RW, DVD±R : Since a Playlist is not present, the message 'Do you want to erase "No.01"?' is displayed.
 - The message may depend on the type of disc.
4. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.



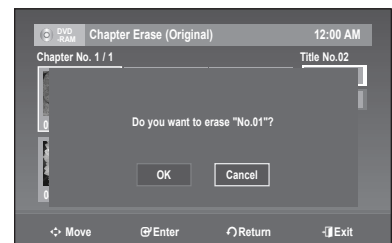
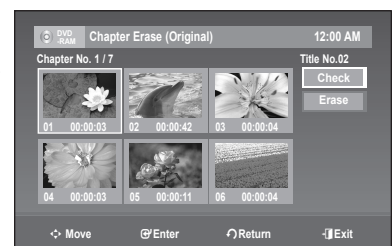
- You cannot erase a protected title. If you want to erase a protected title, select Off in the Title Protect menu.
- Once a title is erased from the Title List it cannot be recovered.
- Once a DVD±R, DVD-RW is finalized, it cannot be erased.
- With DVD±R discs, titles are only erased from the menu, however, the Title remains physically on the disc.



Erasing a chapter (Chapter Erase)

Follow these instructions to erase a chapter from the Title List.

1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a title you want to erase from the Title List, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Chapter Erase**, then press the **ENTER** button.
The Chapter Erase screen is displayed.
4. Press the **▲▼◀▶** buttons to select a chapter you want to erase from the Title List, then press the **ENTER** button. **Check** is selected.
To preview the chapter, press the **ENTER** button.
When you press the **RETURN** button, the display returns to Chapter Erase (Original).
5. Press the **▲▼** buttons to select **Erase**, then press the **ENTER** button.
You will be prompted with a confirmation message.
The Message "Do you want to erase "No. 01"?" is displayed.
6. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
The selected chapter is erased from the title.
To erase other chapters, repeat from step 4.



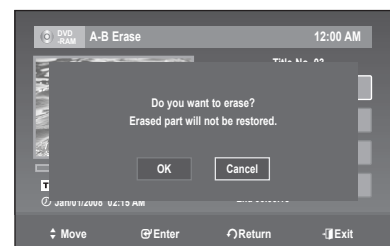
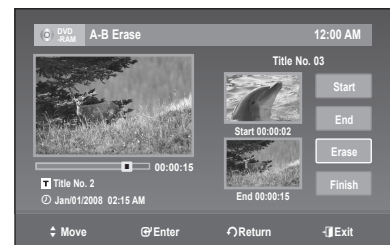
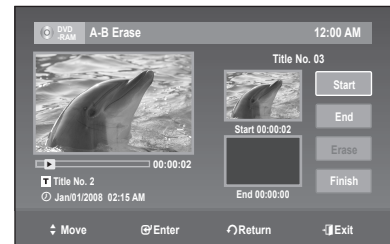
- ✎ You can also erase chapters from a Playlist title.
 - If you erase an original title used in a Playlist, that Playlist is also erased.

Erasing a section of a Title (A-B Erase)

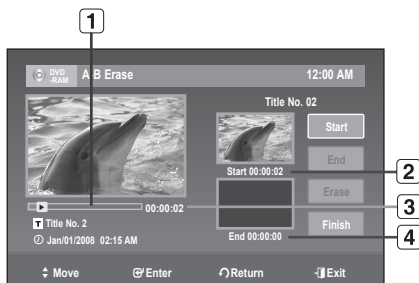
Follow these instructions to erase a section of a Title List entry.



1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a title you want to edit from the Title List, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **A-B Erase**, then press the **ENTER** button.
The A-B Erase screen is displayed.
4. Press the **ENTER** button at the starting point.
The image and starting point time are displayed in the section deletion starting point window.
5. Press the **ENTER** button at the end point.
The image and end point time is displayed in the Section deletion ending point window.
6. Press the **▲▼** buttons to select **Erase**, then press the **ENTER** button.
7. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
The selected section has been deleted.
To return to the Title List, press the **▲▼** buttons to select Finish.



❖ A-B Erase Screen Elements



1 Playback bar

2 Section deletion starting point window and time

3 Playtime

Section deletion end point window and time

- 4**
 - Select the start and end points of the section you want to delete using the playback related buttons.

• Playback related buttons : (◀, ▶, ⏸, ⏪, ⏩, ⏴, ⏵)



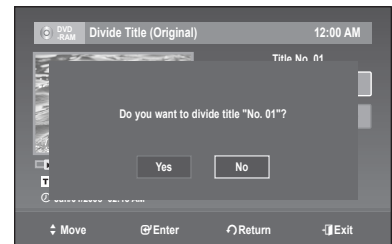
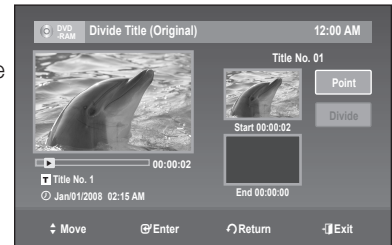
- The length of the section to be deleted must be at least 5 seconds long.
- End point cannot be marked earlier than start point.
- The section cannot be deleted when it includes a still picture.

Dividing a title into two (Divide Title)

Follow these instructions to divide a title into two.



1. Press the **TITLE LIST** button.
The Title List screen is displayed.
2. Press the **▲▼** buttons to select a title you want to divide from the Title List, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Divide Title**, then press the **ENTER** button.
The setting the dividing point screen is displayed.
Point is selected.
4. Press the **ENTER** button at the point where you want to divide the title.
Divide is selected.
5. Press the **ENTER** button.
You will be prompted with a confirmation message.
The Message "Do you want to divide title "No.01"?" is displayed.
To reset the dividing point, select **No** and press the **ENTER** button, then repeat from step 4.
The display asks whether you want to rename the title.
To use the same name as before, select **No** and press the **ENTER** button to finish.
6. Press the **◀▶** buttons to select **Yes**, then press the **ENTER** button.
The Title Name screen is displayed.
7. Follow steps 3 to 5 of **Changing the Name of a Title** (page 70) to complete renaming.
The divided title appears in the Title List with the new name.



ADVANCED EDITING (PLAYLIST)

Creating a Playlist

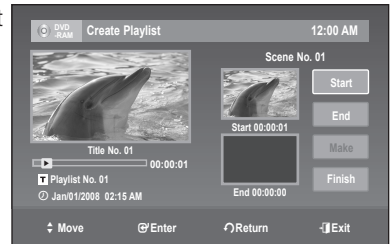
Follow these instructions to create a new playlist title from a recorded title.



1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Edit**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Create Playlist**, then press the **ENTER** button.
The Create Playlist screen is displayed.
4. Press the **ENTER** button at the start point.

editing

- The image and time at the start point are displayed on the Start window.
 - Select the starting point of the section from which you want to create a new scene using the playback related buttons.
 - Playback related buttons : (⏪, ⏩, ⏴, ⏵, ⏶, ⏷)
5. Press the **ENTER** button at the end point.
 - The image and end point time are displayed in the End window.



- To make a new playlist -

6. Press the **▲▼** buttons to select **Make**, then press the **ENTER** button.
A new Make Scene screen is displayed.
A new Scene will be added to the current Playlist.



- You can check and see all the scenes on the Edit Playlist screen.
- Repeat steps 1~5 if you want to make a new playlist.
- Repeat steps 4~5 if you want to make scenes of the playlist.

- To return to Edit Playlist menu -

7. Press the **▲▼** buttons to select **Finish**, then press the **ENTER** button.
The Edit Playlist screen is displayed.

- You can create up to 99 playlist titles.
- Depending on the kind of disc, the displayed screen may be slightly different.
- A disc that is recorded on this unit cannot be displayed playlist menu if EZ Record set to "On".

Playing Titles in the Playlist

Follow these instructions to play the playlist titles.



(VR mode)

1. Press the **TITLE LIST** button with the disc stopped, then press the **PLAY LIST** button.
The Edit Playlist screen is displayed.
2. Press the **▲▼** buttons to select the title you want to play from the Playlist, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Play**, then press the **ENTER** button.
The playlist titles will be played back.
4. Press the **STOP** button to stop playing.



Changing the Name of a Playlist

Follow these instructions to rename a playlist title, i.e. to edit the title of a playlist title.

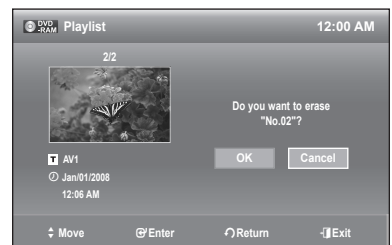


1. Press the **TITLE LIST** button with the disc stopped, then press the **PLAY LIST** button.
The Edit Playlist screen is displayed.
2. Press the **▲▼** buttons to select the title you want to rename from the Playlist, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Title Name**, then press the **ENTER** button.
The Title Name screen is displayed.
4. Enter the desired characters using the **▲▼◀▶** buttons.
 - **Back Space** : Moves the cursor one position backwards.
 - **Space** : Enters a blank and moves the cursor one forward (to the right).
 - **Delete** : Deletes the character at the cursor position.
 - **Clear** : Deletes all the character inputs.
 - **Finish** : Registers the character inputs.
5. Press the **▲▼◀▶** buttons to select **Finish**, then press the **ENTER** button.
The changed title is displayed in the title field of the selected title.



Deleting a Playlist Title from the Playlist

1. Press the **TITLE LIST** button with the disc stopped, then press the **PLAY LIST** button.
The Edit Playlist screen is displayed.
2. Press the **▲▼** buttons to select the title you want to delete from the Playlist, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Title Erase**, then press the **ENTER** button.
4. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
After the delete operation is complete, it will automatically return to the Edit Playlist screen.



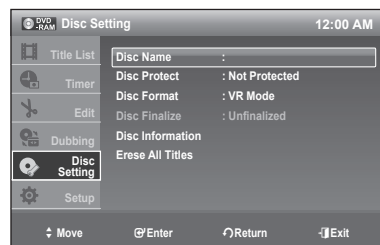
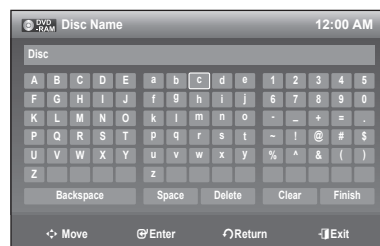
DISC SETTING


Menu items may vary, depending on the existence of a recorded title.

Editing the Disc Name

Follow these instructions to give a name to a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Disc Name**, then press the **ENTER**.
The Disc Name screen is displayed.
4. Enter the desired characters using the **▲▼◀▶** buttons.
 - **Backspace** : Moves the cursor one position backwards.
 - **Space** : Enters a blank and moves the cursor one forward (to the right).
 - **Delete** : Deletes the character at the cursor position.
 - **Clear** : Deletes all the character inputs.
 - **Finish** : Registers the character inputs.
5. Press the **▲▼◀▶** buttons to select **Finish**, then press the **ENTER** button.
A disc name is given to the disc.



- 
 - You may need to clear disc protection before editing.
 - Depending on the kind of disc, the displayed screen may be different.

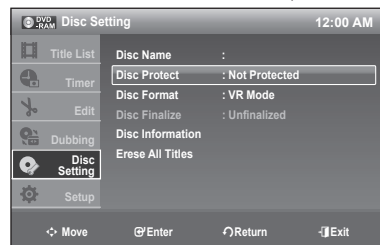
Disc Protection

Disc Protect allows you to protect your discs from being formatted or deleted due to unintended operations.



(VR mode)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER**.
3. Press the **▲▼** buttons to select **Disc Protect**, then press the **ENTER**.
4. Press the **▲▼** button to select **Protected**, then press the **ENTER**.



Formatting a Disc

Use these instructions to format a disc.
Disable disc protection before formatting.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Disc Format**, then press the **ENTER** button.

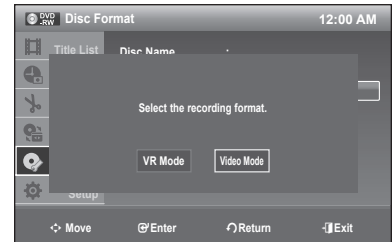
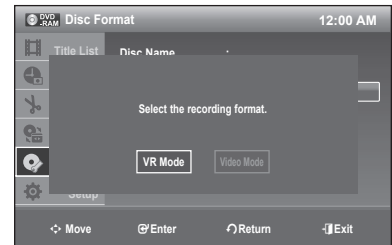
DVD+RW

- You will be prompted with the confirmation message 'All of the data will be erased (even protected titles). Do you want to format this disc?'

DVD-RAM/-RW

- You will be prompted with the confirmation message 'Select the recording format.' (When using a DVD-RAM disc, you can select VR mode only)
- You will be prompted with the confirmation message 'All of the data will be erased (even protected titles). Do you want to format this disc?'
- You will be prompted with the confirmation message 'Do you want to format disc?'

4. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
The disc is formatted.



- You can change the disc mode only one time when the unused DVD-R disc is inserted.

DVD-VR and DVD-V modes are compatible with the following disc types.

| | DVD-VR | DVD-V |
|------|----------------------------|-----------------|
| DISC | DVD-RAM DVD-RW DVD-R | DVD-RW DVD-R |

Finalizing a Disc

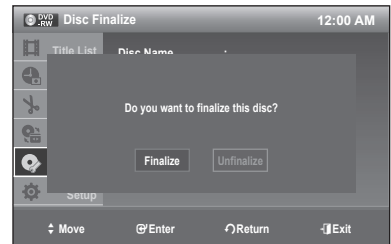
After you record titles onto a DVD-RW/DVD±R disc with your DVD Recorder & VCR, it needs to be finalized before it can be played back on external devices.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER** button.
3. Press the **▲▼** button to select **Disc Finalize**, then press the **ENTER** button.
You will be prompted with the message 'Do you want to finalize this disc?'

4. Press the **◀▶** buttons to select **Finalize**, then press the **ENTER** button.

You will be prompted again with the message "Disc will be finalized. Do you want to continue?".

5. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
The disc is finalized.



- Once a disc is finalized, you cannot delete titles from the record list.
- Once a DVD±R/DVD-RW (video mode) disc is finalized, it is playable in a standard DVD player.
- Depending on the disc type, the displayed screen may be different.
- Finalizing time may be different depending on the amount of data recorded on the disc.
- Data on the disc will be damaged if the recorder is powered off during the finalization process.
- You can automatically finalize a disc using EZ REC MODE. (See page 36)

Unfinalizing a disc (V/VR mode)

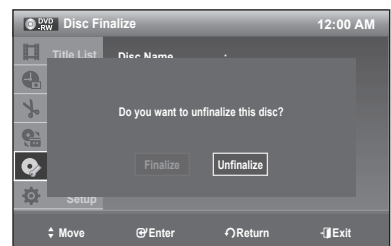
1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER** button.
3. Press the **▲▼** button to select **Disc Unfinalize**, then press the **ENTER**.

You will be prompted with the message 'Do you want to unfinalize disc?'

4. Press the **◀▶** buttons to select **Unfinalize**, then press the **ENTER** button.

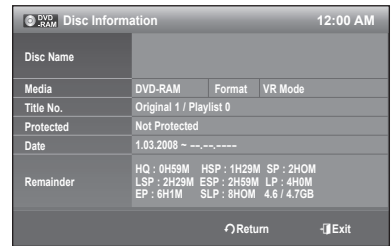
You will be prompted again with the message "Disc will be unfinalized. Do you want to continue?".

5. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
The disc is unfinalized.



Disc Information

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER** button.
3. Press the **▲▼** buttons to select **Disc Information**, then press the **ENTER** button.
The Disc Information is displayed.

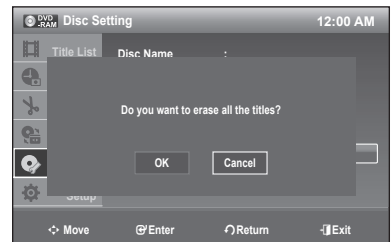
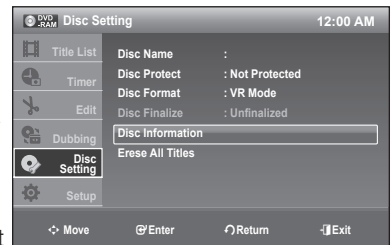


Erase All Titles

1. With the unit in Stop mode, press the **MENU** button.
2. Press the **▲▼** buttons to select **Disc Setting**, then press the **ENTER** button.
3. Press the **▲▼** button to select **Erase All Titles**, then press the **ENTER** button.
 - You will be prompted with the confirmation message 'Do you want to erase all title lists?'.
 - When Protected Title exists: The **Erase All Titles** function will not operate. If there is a title containing a still picture, however, that function will not operate. If you want to delete a protected title, disable Protect for it on the Lock item.
3. Press the **◀▶** buttons to select **OK**, then press the **ENTER** button.
All title lists are deleted.



(VR mode)



TROUBLESHOOTING (DVD-VIDEO/DVD-RAM/DVD±RW/DVD±R)

If your product malfunctions, go through the check points below before contacting Samsung customer service.

| PROBLEM | EXPLANATION/SOLUTION |
|---|--|
| No power. | <ul style="list-style-type: none"> • Check whether the power cord is securely plugged into the power outlet. • Did you press the power button of your DVD Recorder & VCR. |
| The input is displayed for a while when the power turns on. | <ul style="list-style-type: none"> • The DVD Recorder & VCR requires some time to initialize after it is turned on. |
| Cannot record TV programs. | <ul style="list-style-type: none"> • Check whether the power cord is securely plugged into the power outlet. • Did you set the DVD Recorder & VCR channel settings correctly? • Check the free space on your DVD-RAM/DVD±RW/DVD±R disc. |
| Timer recording does not work properly. | <ul style="list-style-type: none"> • Check the recording time, end time and current time settings again. • Recording will be cancelled if the power is interrupted due to a power failure or other reason during recording. |
| Cannot record. | <ul style="list-style-type: none"> • Check whether the disc is formatted. This product can record on formatted discs only. (See pages 58,77.) • Check whether your DVD-RAM/DVD±RW/DVD±R disc has a sufficient free space. |
| I pressed the REC button but there is no response. | <ul style="list-style-type: none"> • Recording is available on DVD-RAM/DVD±RW/DVD±R discs only. • If a program is copy protected, you cannot record it. |
| I forgot the parental control password. | <ul style="list-style-type: none"> • Press and hold the CH↓/CH↑(◀ / ▶) button on the front panel of your unit for more than 10 seconds with no disc, and then press the POWER OFF/ON button. All settings including the password will revert to factory settings. Only do this if it is absolutely necessary. (Note that this function is available only when there is no disc inserted.) |
| Cannot play the disc. | <ul style="list-style-type: none"> • Check whether the disc is inserted correctly with the label facing up. • Check the regional code of your DVD disc. • This DVD Recorder & VCR cannot playback some types of disc. (See pages 7, 48.) |
| No sound. | <ul style="list-style-type: none"> • Are you watching a program in slow or skip mode? If you are playing a program at a speed other than normal speed, sound is not output. (But, you can hear sound during forward search (FF1) in DVD-VIDEO/DVD-RAM/±RW/±R disc.) • Check the connections and initial settings. • Check whether the disc is damaged. • Clean the disc, if necessary. • Check whether the disc is inserted correctly with the label facing up. |

TROUBLESHOOTING (DVD)

| PROBLEM | EXPLANATION/SOLUTION |
|--|---|
| ⊘ icon appears on the screen. | You cannot use the operation or function due to one of the following reasons: (1) Your DVD disc does not support the feature (for example, angles) (2) You've requested a title, chapter, or scan time that is out of the correct range. |
| Play mode settings are different from the settings configured with the Setting menu. | The disc does not support all the selected functions. In this case, some settings you configure on the Setting menu may not work properly. |
| Cannot change the aspect ratio. | Aspect ratio is fixed on DVD disc. |
| No audio output. | Check whether you selected the correct digital output in the Audio Output Options menu. |
| No video or audio output. The disc tray is ejected after 2 to 5 seconds. | Did you move your DVD Recorder & VCR suddenly from a cold place to a warm place? In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again. It will work properly when condensation has evaporated. |
| Angle operation does not work during playback of a DVD disc. | Angle operation is available only when the disc contains images captured at different angles. |
| The disc revolves, but no image or bad quality images are output. | <ul style="list-style-type: none"> • Check whether there is damage or foreign materials on your disc. • Some discs with bad manufacturing quality may not be played back. • If the scene changes from dark to bright suddenly, the screen may jitter temporarily, but it is not defective. |
| Desired sound language and subtitle language are not played. | Sound languages and subtitle languages are disc-specific. Only the sound and subtitle languages contained on a DVD disc are available and displayed on the disc menu. |
| No progressive output. | <ul style="list-style-type: none"> • Check whether you selected the correct Progressive options in the Video Options. |
| The remote control doesn't work. | <ul style="list-style-type: none"> • Point the remote control at the remote control sensor on your DVD Recorder & VCR. Operate within distance. (15ft) • Remove obstacles between your DVD Recorder & VCR and remote control. • Check whether the batteries are depleted. |
| Other problems | <ul style="list-style-type: none"> • Read the table of contents and then find and read the sections describing your problem, and follow the directions given. • Turn the unit off and on. • If your problem still persists, contact your nearest Samsung customer service. |
| No HDMI output. | <ul style="list-style-type: none"> • Check that the Video output is HDMI enabled. • Check the connection between the TV and the HDMI jack of the DVD Recorder & VCR. • See if your TV supports this 480p/720p/1080i/1080p DVD Recorder & VCR. |
| Abnormal HDMI output screen. | <ul style="list-style-type: none"> • If snow noise appears on the screen, it means that the TV does not support HDCP (High-bandwidth Digital Content Protection). |
| HDMI output Jitter | <ul style="list-style-type: none"> • Check if your TV system is setup correctly. • Screen Jitter may occur when the frame rate is converted from 50Hz to 60Hz for 720p/1080i/1080p HDMI (High Definition Multimedia Interface) Output. • Please refer to the user's manual of your TV. |

TROUBLESHOOTING (VCR)

Before contacting Samsung customer service, perform the following simple checks.

| PROBLEM | EXPLANATION/SOLUTION |
|--|---|
| No power | <ul style="list-style-type: none"> • Check that the power plug is connected to a wall outlet. • Have you pressed the POWER button? |
| You cannot insert a video cassette | <ul style="list-style-type: none"> • A video cassette can only be inserted with the window side up and the safety tab facing you. |
| Timer recording was unsuccessful | <ul style="list-style-type: none"> • Re-check the recording start/stop time settings and the current time • Check whether you insert a tape which has enough time record |
| No playback picture or the picture is distorted | <ul style="list-style-type: none"> • Check to see if you are using a prerecorded tape. |
| When the ► button is pressed during playback, the still picture has severe “noise bar” streaks | <ul style="list-style-type: none"> • A still picture may have “noise bars”, depending on the condition of the tape. Press the TRK/CBC CH/TV CH (▲/▼) buttons during slow motion to minimize this effect. |
| Video Head Cleaning | <ul style="list-style-type: none"> • If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads. |

If you are unable to solve the problem after reading the above instructions, note:

- The model and serial number on the rear of your DVD Recorder & VCR
- The warranty information
- A clear description of the problem

Then contact **SAMSUNG** customer service at 1-800-SAMSUNG.

PROBLEMS AND SOLUTIONS (DISPLAY ERROR MESSAGE)

Before contacting a Samsung authorized service center, perform the following simple checks.

| PROBLEM | EXPLANATION/SOLUTION |
|---|--|
| You cannot record a copy protected movie. | <ul style="list-style-type: none"> You can't record the video since it is protected by copyright. |
| You cannot record. This disc is protected. | <ul style="list-style-type: none"> The disc you are using is protected. To record on this disc or use this function, cancel the disc protection function. Refer to page 76. |
| This disc cannot be formatted (the disc is protected). | |
| This disc cannot be renamed (the disc is protected). | |
| This disc cannot be finalized (the disc is protected). | |
| This [Menu] is not available (the disc is protected). | |
| The disc cannot be played, Please check the regional code of the disc. | <ul style="list-style-type: none"> The disc does not match the regional code for your area and cannot be played on this device. |
| This disc cannot be formatted. Please check the disc. | <ul style="list-style-type: none"> Make sure there are no scratches or dirt on the disc. |
| You could not format the disc because of error detection. | |
| You could not finalize the disc because of error detection. | |
| You could not unfinalize the disc because of error detection. | |
| The disc cannot be played, Please check the TV system. | <ul style="list-style-type: none"> The disc is PAL format and cannot be played on this unit. |
| The disc can be neither played nor recorded. | <ul style="list-style-type: none"> Make sure there are no scratches or dirt on the disc. |
| The disc cannot be played, Please check the disc. | |
| If the disc has invalid information, no more titles can be recorded. Please format the disc beforehand. | <ul style="list-style-type: none"> You can't use the disc because it contains errors from previous recordings. Use the disc after formatting. |

PROBLEMS AND SOLUTIONS (DISPLAY ERROR MESSAGE)

| PROBLEM | EXPLANATION/SOLUTION |
|--|---|
| Error is detected on the disc. | <ul style="list-style-type: none">You can't use the disc because it contains errors from previous recordings. Use the disc after formatting. |
| System error is found. Please try it again after turning off the power. | <ul style="list-style-type: none">When operating, errors happen. Turn off the device. (To turn off, press and hold the power button on the front of the device for 10 seconds.) After turning off, press the Open button and remove the disc from the device. |
| The DV device is not connected. | <ul style="list-style-type: none">Make sure the DV device is connected properly to the DV connection Jack. If it is connected properly, turn it off and on once again. |

If you are unable to solve the problem after reading the above instructions, note:

- The model and serial number on the rear of your DVD Recorder & VCR
- The warranty information
- A clear description of the problem

Then contact SAMSUNG customer service at 1-800-SAMSUNG.

appendix

SPECIFICATIONS

| | | |
|---------|---------------------------------|--|
| General | Power requirements | 120V AC, 60Hz |
| | Power consumption | 25 Watts |
| | Weight | 9.7 lb |
| | Dimensions | 16.9ln(W) x 13.0ln(D) x 3.1ln(H) |
| | Operating temp. | +41°F to +95°F |
| | Other conditions | Keep level when operating. Operate in less than 75% humidity |
| Input | Video | 1.0 V p-p at 75Ω load, sync negative |
| | Max. Audio Input Level | 2Vrms |
| | DV Input | IEEE 1394(4p) compatible jack |
| Output | Audio | Audio output jacks 1, 2 |
| | | Coaxial digital audio output support |
| | | Min. 100 dB signal-to-noise ratio |
| | | Max. 0.005% total harmonic distortion (T.H.D) at average 1 KHz |
| | Video | Video output jacks |
| | | Component output (Y: 1.0Vp-p, Pb: 0.70Vp-p, Pr: 0.70Vp-p at 75Ω load) HDMI output (480p, 720p, 1080i, 1080p) |
| DVD | Picture Compression format | MPEG-II |
| | Audio Compression format | Dolby AC-3 256kbps |
| | Recording Quality | HQ(Approx. 1 hour), HSP(Approx. 1 hour 30 minutes), SP(Approx. 2 hours), LSP(Approx. 2 hours 30 minutes), ESP(Approx. 3 hours), LP(Approx. 4 hours), EP(Approx. 6 hours), SLP(Approx. 8 hours) |
| | Video S/N Ratio | Min. 50dB at standard recording |
| | Audio S/N Ratio | Min. 75dB |
| | Audio frequency characteristics | 20 Hz ~ 20 KHz |

Audio Output

For DVD discs, audio signals recorded at 96kHz sampling frequency are converted into and output at 48kHz.

| Disc Type | DVD | AUDIO CD (CD-DA) |
|----------------------|------------|------------------|
| Analog Audio Output | 48 / 96kHz | 44.1kHz |
| Digital Audio Output | 48kHz | 44.1kHz |

SAMSUNG DVD RECORDER & VCR

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

**One (1) Year Parts / Ninety (90) days Labor
(90 days Parts and Labor for Commercial Use)**

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

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Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions 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.

To obtain warranty hardware service, please contact SAMSUNG at:

Samsung Electronics America, Inc.
105 Challenger Road Ridgefield Park, NJ 07660-0511
1-800-SAMSUNG (726-7864) and www.samsung.com

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

| Region | Country | Customer Care Center ☎ | Web Site |
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