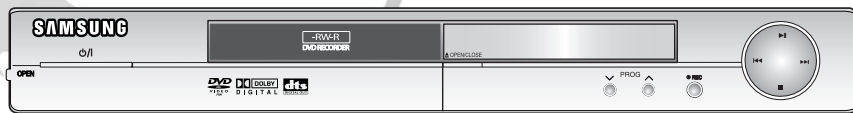




Instruction Manual

DVD-R128, R129 DVD-R130, R131



English Ελληνικά



www.samsung.com
AK68-01003E-00

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.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

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 : DVD RECORDER USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE RECORDER CORRECTLY 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.

This product satisfies CE 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.

IMPORTANT NOTE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug. If it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains jack, as there is a risk of shock hazard from the bared flexible cord.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

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Precaution



Important Safety Instructions

Read these operating instructions carefully before using the DVD Recorder. 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 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.
- 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 grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are 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, 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. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, 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 DVD Recorder, be sure to turn them all off.
- Do not move the DVD Recorder while a disc is being played, or the disc may be scratched or broken, the DVD Recorder's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the DVD 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 DVD Recorder. If this occurs, turn the DVD Recorder off and on again with the **STANDBY/ON** button, or disconnect and then reconnect the AC power cord to the AC power outlet.
The DVD Recorder will operate normally.
- Be sure to remove the disc and turn off the DVD Recorder after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the DVD Recorder for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

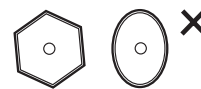
Maintenance of Cabinet

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 may be damaged.



Holding discs

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



DVD-RW, DVD-R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1 where available). Do not use cleaners or cloths for CDs to clean 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 harm the disc because the data on these discs is 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 suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again.

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 digital surrounding, allowing you to enjoy vivid and clear theatre quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the DVD Recorder.
- Once a DVD-R/-RW recorded in Video Mode is finalised, it becomes DVD-Video.

Audio CD

- An audio disc on which 44.1kHz PCM Audio is recorded
- Plays CD-DA format audio CD-R and CD-RW discs. The DVD Recorder 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", ".MP3" extension can be used.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 32 Kbps to 320 Kbps, the sound may cut in out.
- Playable bitrate range is from 56Kbps to 320Kbps.
- This DVD Recorder can handle a maximum of 500 files and 100 folders.

JPEG CD-R/-RW

- Only JPEG files with the ".jpg", ".JPG" extension can be used.
- This DVD Recorder can handle a maximum of 500 files and 100 folders.
- Maximum size of progressive JPEG is 3M pixels.
- MOTION JPEG is not supported.

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 playback time, all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this DVD Recorder, 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.

Using MPEG4 disc

- Disc : CD-R/-RW, DVD-R/-RW
- MPEG4 File with following extensions can be played : .avi, .divx, .AVI, .DIVX
- MPEG4 Codec format : DivX 3.11 DivX 4.x DivX 5.x DivX-Pro Xvid
- Motion Compensation : QPEL, GMC
- four CC : MPG4, mpg4, DIV3, divX3, DIVX, divX, DX50, MP43, mp43, XVID, xvid
- Available Audio Format : "MP3", "MPEG1 Audio Layer2", "LPCM", "AC3", "DTS", "MS ADPCM"
- Supported subtitle file formats: .sml, .srt, .sub, .psb, .txt, .ass

DVD-R Disc Playback and Recording

- Once a DVD-R recorded in Video Mode is finalised, it becomes DVD-Video.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programmes and erasing programmes before finalising.
- 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 DVD Recorder to complete recording management information after recording finishes.
- This DVD Recorder optimizes the DVD-R for each recording. Optimizing is carried out when you start recording after inserting the disc or turning on the DVD Recorder. Recording onto the disc may become impossible if optimizing is carried out too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This DVD Recorder can play back DVD-R discs recorded and finalised 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

- Recording and playback can be performed on DVD-RW discs in both the Video and VR Modes.
- Once a DVD-RW recorded in both the Video and VR Modes is finalised, you cannot perform additional recording.
- Once a DVD-RW recorded in Video Mode is finalised, it becomes DVD-Video.
- In both modes, playback can be performed before and after finalisation, but additional recording, deleting and editing can not be performed after finalisation.

- 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.
- A DVD-RW blank disc is initialized to VR Mode when first initialized.
- **DVD-RW (VR mode)**
 - This is a format that is used for recording data on a DVD-RW disc. 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 Recorder.
- **DVD-RW (Video mode)**
 - This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by existing DVD Recorder once it has been finalised.
 - If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalised, it cannot be played or additionally be recorded by this DVD Recorder.

COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD recorder directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This DVD Recorder 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 authorised by Macrovision Corporation, is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Protection

This DVD Recorder can allow you to protect the contents of your discs, as described below.

- Programme-protected: See page 70 "Locking(Protecting) a Title"
 - Disc-protected: See page 82 "Disc Protection"
- * DVD-RW/DVD-R discs that are incompatible with the DVD-VIDEO format cannot be played with this DVD Recorder.
- * For more information on DVD recording compatibility, consult your DVD-RW/DVD-R manufacturer.
- * Use of poor quality DVD-RW/DVD-R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the DVD Recorder.

Do not use the following discs!

- LD, CD-G, CD-I, Video-CD, CD-ROM, and DVD-ROM discs should not be used in this DVD Recorder.
[Note]
Disc types that can be played : CD/CD-R/CD-RW/MP3/JPEG/MPEG4/DVD-Video/DVD-RW/DVD-R. For a DVD-R/DVD-RW disc, which has been recorded in Video Mode on another component, it can play only when finalised.
- Some commercial discs and DVD discs purchased outside your region may not be playable with this DVD Recorder. When these discs are played, either "No Disc" or "Please check the regional code." will be displayed.
- If your DVD-RW disc is an illegal copy or is not in DVD video format, it may also not be playable.

Disc Compatibility

- High Speed Recording discs can be used in this DVD Recorder.
- Not all brands of discs will be compatible with this DVD Recorder.

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General Features



The DVD Recorder allows you to record and play high quality digital video on DVD-RW/DVD-R discs. You can record and edit digital images on DVD-RW/DVD-R discs as if they were VCR tapes.

High quality digital audio and video recording and playback

Record up to 8-hours of images with a 4.7 GB DVD-RW/DVD-R disc, depending on the recording mode.

Selectable Recording Mode

You can set your recorder to one of four different recording speeds, each varying in recording quality and length. EP (6Hr or 8Hr) mode yields the most recording time, LP & SP modes provide less recording time with higher quality recording, XP mode gives you the highest quality recording.

Automated Quality Adjustment for Timer Recording

If FR mode is selected, the video quality is adjusted automatically so that all video for the scheduled time can be recorded onto the free disc space. (See page 46.)

Creating a DVD video title using DVD-RW/DVD-R disc

With the DVD Recorder, you can create your own DVD Video titles on 4.7 GB DVD-RW/DVD-R discs.

Copying data from a digital camcorder using a DV input jack (DVD-R130, R131 only)

Record DV Device video onto DVD-RW, DVD-R discs using the DV input jack (IEEE 1394-4pin/4pin). (See pages 43-44.)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC and 2D Y/C Separating Circuitry provides the highest image playback and recording quality. (See pages 21, 35)

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

The integrated menu system and the messaging function allow you to perform desired operations both easily and conveniently. With a DVD-RW disc, you can edit recorded video, create a playlist, edit video in a specific sequence according to your requirements.

MPEG4 playback

This DVD Recorder can play MPEG4 formats within an avi file.

DivX Certification












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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 in DVD or DVD-R/DVD-RW discs that have been recorded and finalised in Video Mode.
	RW	This involves a function available in DVD-RW.
	R	This involves a function available in DVD-R.
	CD	This involves a function available in a data CD (CD-R or CD-RW).
	JPEG	This involves a function available in a data picture CD-R/-RW, DVD-R/-RW.
	MP3	This involves a function available in a data CD-R/-RW, DVD-R/-RW.
	MPEG4	This involves a function available in a data CD-R/-RW, DVD-R/-RW.
	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 ANYKEY button.

About the use of this user's manual

- 1) Be sure to be familiar with Safety Instructions before using this DVD Recorder. (See pages 2-5)
- 2) If a problem occurs, check for Troubleshooting. (See pages 86-89.)

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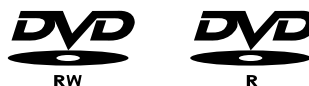
How to use the DVD Recorder

Step 1 Select the disc type

This DVD Recorder 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 type disc.

If you want to save recording without any change, choose a non-rewritable DVD-R.



Step 2 Format the disc to start recording

Unlike a VCR, the DVD Recorder automatically starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using a DVD-RW

This type of disc can be formatted in either DVD-Video format (Video mode) or DVD-Video Recording format (VR mode). For an unused disc, a message that asks whether to format in VR Mode or not is displayed. You can play a Video mode disc on various DVD components. A VR mode disc allows more varied editing.

Using a DVD-R

Formatting a disc is unnecessary and only Video Mode Recording is supported. You can play this type of discs on various DVD components only when they have been finalised.



NOTE

- You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.
- You can change the DVD-RW format to another format by reinitializing. 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 and Timer Recording. Timer recording is classified as a Date : Once, Daily, MO-SA, MO-FR, W-SA, etc.

Recording mode : XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode) according to the recording mode. When recording is set in the FR mode, the best quality picture is recorded with regards to the remaining time on the disc.



Step 4 Playing

You can select the title you want to play in a displayed menu and then immediately start playback.

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 when you finalise recording on DVD-R / DVD-RW discs in Video mode.

The chapter's length (interval between chapters) varies according to the recording mode.



Step 5 Editing a recorded disc

Editing on discs is easier than conventional video tapes. The DVD 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, copy, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RW in VR mode)

With this DVD Recorder, you can create a new playlist on the same disc and edit it without the change of the original recording.



Step 6 Finalising & Playing on other DVD components

To play your DVD on other DVD components, finalising may be necessary. First, finish all editing and recording operations, then finalise the disc.

When using a DVD-RW disc in VR Mode

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

When using a DVD-RW disc in Video Mode

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

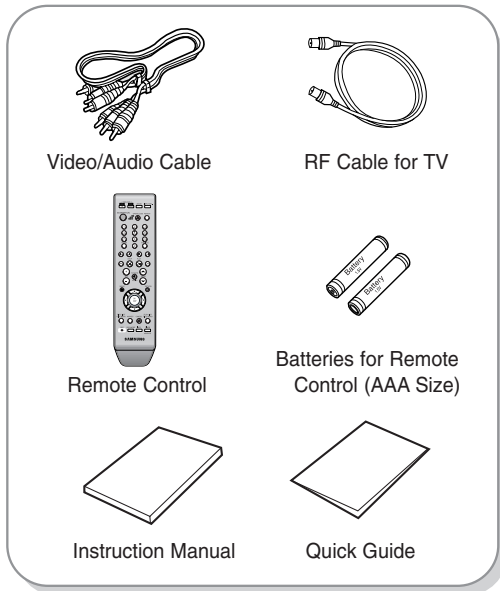
When using a DVD-R disc

You should finalise the disc to play it on a component other than this DVD Recorder. You cannot edit or record on the disc once it has been finalised.

Unpacking

Accessories

Check for the supplied accessories below.



Setting the Remote Control

You can control certain functions of another manufacturer's TV with this remote control. Control function buttons involve: STANDBY/ON, PROG \wedge/\vee , VOL +/-, Direct Number buttons, TV MUTE, INPUT SEL. button.



Preparing the Remote Control

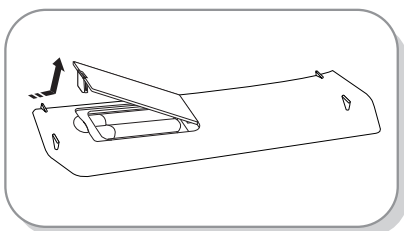
Install Batteries in the Remote Control

- Open the battery cover on the back of the remote control.
- Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.
- Replace the battery cover.

If the remote does not operate properly:

- Check the polarity +/- of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if 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.



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 **STANDBY/ON** button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate number buttons.

Controllable TV Codes

BRAND	BUTTON
SAMSUNG	01, 02, 03, 04, 05, 06, 07, 08, 09
AIWA	82
ANAM	10, 11, 12, 13, 14, 15, 16, 17, 18
BANG & OLUFSEN	57
BLAUPUNKT	71
BRANDT	73
BRIONVEGA	57
CGE	52
CONTINENTAL EDISON	75
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
EMERSON	64
FERGUSON	73
FINLUX	06, 49, 57
FORMENTI	57
FUJITSU	84
GRADIENTE	70
GRUNDIG	49, 52, 71
HITACHI	60, 72, 73, 75
IMPERIAL	52
JVC	61, 79
LG	06, 19, 20, 21, 22, 78
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mitsubishi	06, 48, 62, 65
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Result: If your television is compatible with the remote control, it will switch off.
It is now programmed to operate with the remote control.



NOTE

- 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.

Then you can control the television using the following buttons after the TV button.

Button	Function
STANDBY/ON	Used to switch the television on and off.
INPUT SEL.	Used to select an external source.
VOL (+ or -)	Used to adjust the volume of the television.
PROG (^ or v)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.
0-9	Used to input number directly.

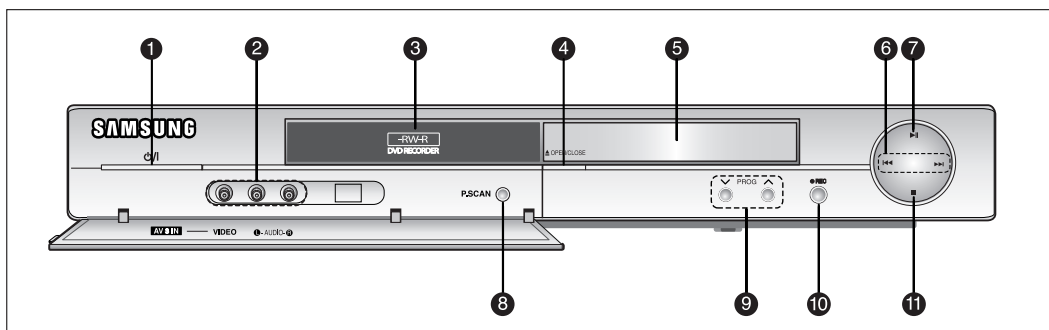


NOTE

- The various functions will not necessarily work on all televisions. If you encounter problems, operate the television directly.

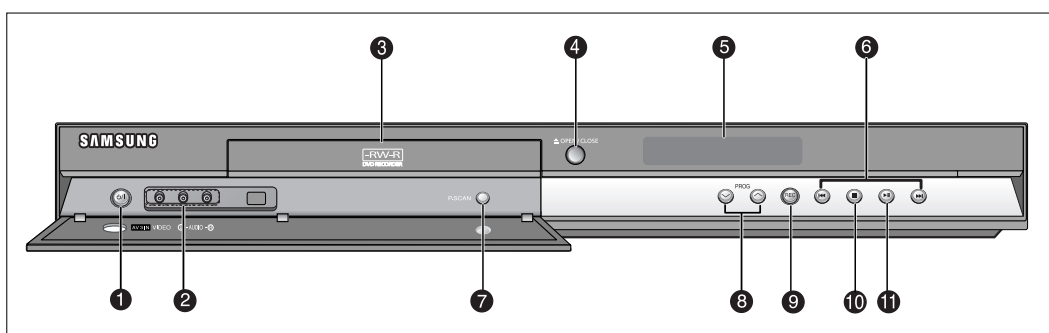
Description

Front Panel (DVD-R128)



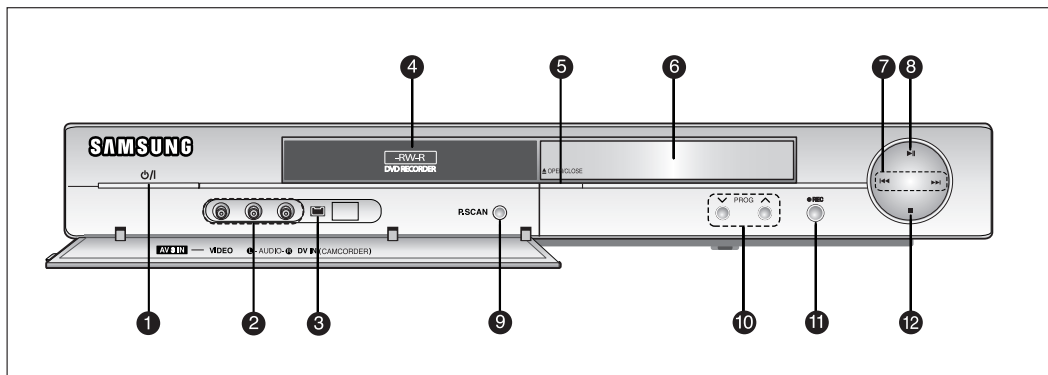
- | | |
|---|--|
| <ol style="list-style-type: none"> 1. STANDBY/ON
Turns the DVD Recorder on and off. 2. AV3 IN
Connect external equipment. 3. DISC TRAY
Opens to accept a disc. 4. OPEN/CLOSE
Opens and closes the disc tray. 5. DISPLAY
Displays the playing status, title/chapter/time, etc. 6. SEARCH/SKIP
Go to the next title/chapter/track or go back to the previous title/chapter/track. | <ol style="list-style-type: none"> 7. PLAY/PAUSE
Plays a disc or pauses playback/recording. 8. P.SCAN
Selects the progressive scan mode. 9. PROG (^v)
Select TV preset Channels.
Same as PROG button on the remote control. 10. REC
Starts recording. 11. STOP
Stops disc playback. |
|---|--|

Front Panel (DVD-R129)



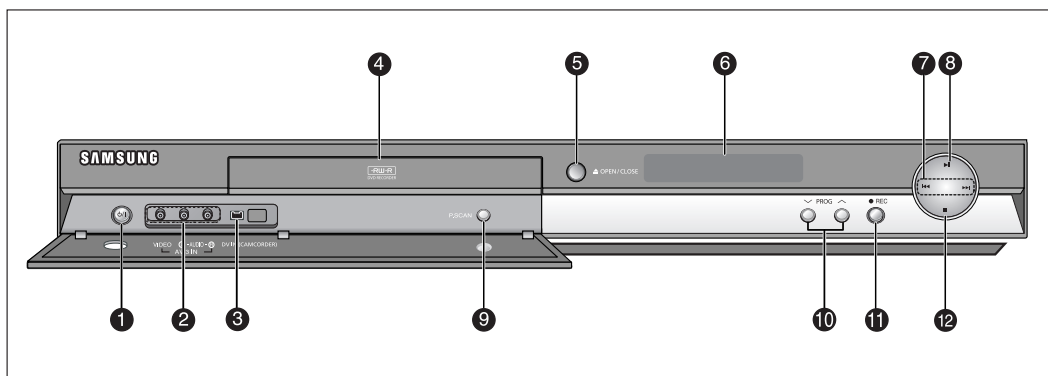
- | | |
|---|--|
| <ol style="list-style-type: none"> 1. STANDBY/ON
Turns the DVD Recorder on and off. 2. AV3 IN
Connect external equipment. 3. DISC TRAY
Opens to accept a disc. 4. OPEN/CLOSE
Opens and closes the disc tray. 5. DISPLAY
Displays the playing status, title/chapter/time, etc. 6. SEARCH/SKIP
Go to the next title/chapter/track or go back to the previous title/chapter/track. | <ol style="list-style-type: none"> 7. P.SCAN
Selects the progressive scan mode. 8. PROG (^v)
Select TV preset Channels.
Same as PROG button on the remote control. 9. REC
Starts recording. 10. STOP
Stops disc playback. 11. PLAY/PAUSE
Plays a disc or pauses playback/recording. |
|---|--|

Front Panel (DVD-R130)



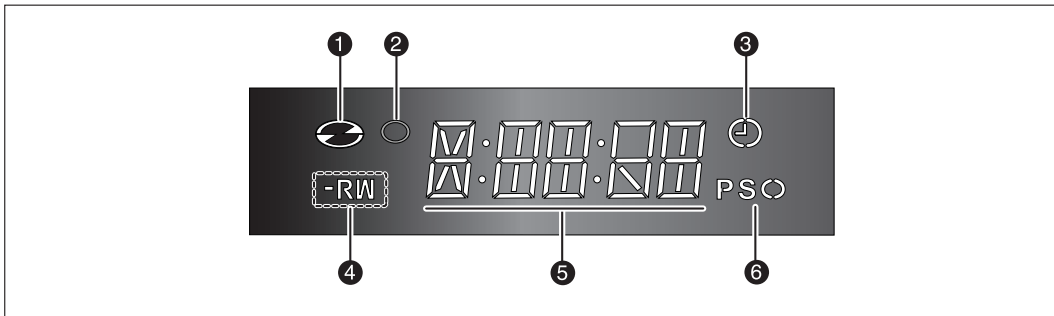
1. **STANDBY/ON**
Turns the DVD Recorder on and off.
2. **AV3 IN**
Connect external equipment.
3. **DV-IN**
Connects external digital equipment with a DV jack. (such as a camcorder)
4. **DISC TRAY**
Opens to accept a disc.
5. **OPEN/CLOSE**
Opens and closes the disc tray.
6. **DISPLAY**
Displays the playing status, title/chapter/time, etc.
7. **SEARCH/SKIP**
Go to the next title/chapter/track or go back to the previous title/chapter/track.
8. **PLAY/PAUSE**
Plays a disc or pauses playback/recording.
9. **P.SCAN**
Selects the progressive scan mode.
10. **PROG (^ v)**
Select TV preset Channels.
Same as **PROG** button on the remote control.
11. **REC**
Starts recording.
12. **STOP**
Stops disc playback.

Front Panel (DVD-R131)



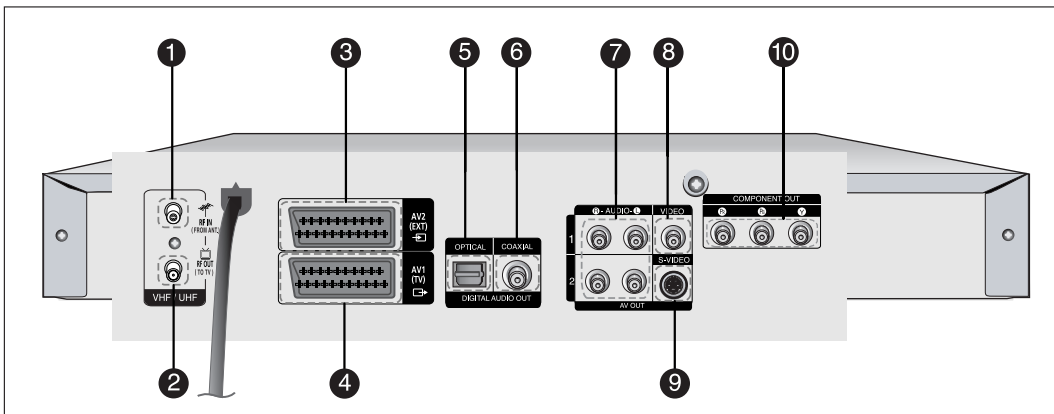
1. **STANDBY/ON**
Turns the DVD Recorder on and off.
2. **AV3 IN**
Connect external equipment.
3. **DV-IN**
Connects external digital equipment with a DV jack. (such as a camcorder)
4. **DISC TRAY**
Opens to accept a disc.
5. **OPEN/CLOSE**
Opens and closes the disc tray.
6. **DISPLAY**
Displays the playing status, title/chapter/time, etc.
7. **SEARCH/SKIP**
Go to the next title/chapter/track or go back to the previous title/chapter/track.
8. **PLAY/PAUSE**
Plays a disc or pauses playback/recording.
9. **P.SCAN**
Selects the progressive scan mode.
10. **PROG (^ v)**
Select TV preset Channels.
Same as **PROG** button on the remote control.
11. **REC**
Starts recording.
12. **STOP**
Stops disc playback.

Front Panel Display



- 1. Lights when a disc is loaded.
- 2. Lights in the record mode.
- 3. Lights to indicate the timer record mode.
- 4. Lights when a DVD-R/RW disc is loaded.
- 5. Playing time/clock/current status indicator.
- 6. Lights in the progressive scan mode.

Rear Panel

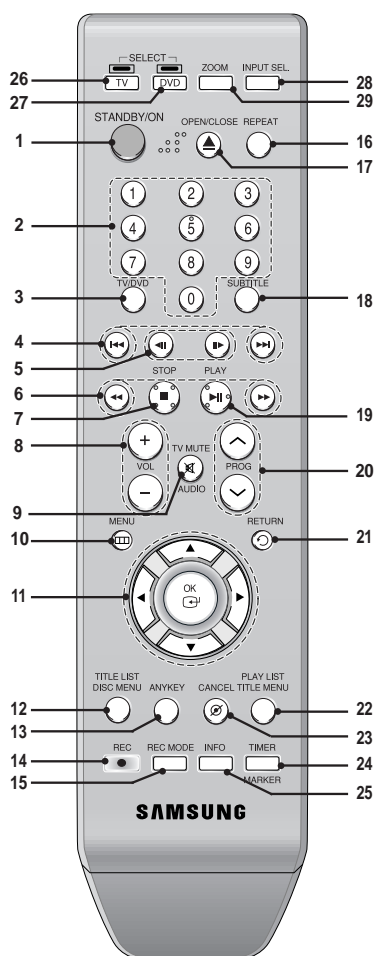


- 1. In from aerial connector
- 2. Out to TV connector
- 3. AV2(EXT) INPUT SCART Connector
- 4. AV1(TV) OUTPUT SCART Connector
- 5. DIGITAL AUDIO OUT(OPTICAL)
Connects to an amplifier having a digital optical audio input jack.
- 6. DIGITAL AUDIO OUT(COAXIAL)
Connects to an amplifier having a digital coaxial audio input jack.
- 7. AUDIO OUT
Connects to the audio input of external equipment using audio cables.
- 8. VIDEO OUT
Connects the input of external equipment using a Video cable.
- 9. S-VIDEO OUT
Connects the input of external equipment using an S-Video cable.
- 10. COMPONENT VIDEO OUT
Connects to equipment having Component video output.

NOTE

- The Antenna connection does not pass output signal of DVD. To watch a DVD on your TV, you must connect audio/video cables.

Tour of the Remote Control



1. **STANDBY/ON Button**
2. **0-9(Number) Buttons**
3. **TV/DVD Button**
4. **Reverse/Forward Skip Buttons**
Press to skip a disc backwards or forwards.
5. **Reverse/Forward Step Buttons**
Press to play frame by frame.
6. **Reverse/Forward Search Buttons**
Press to search a disc backwards or forwards.
7. **STOP Button**
Press to stop a disc.
8. **VOL Buttons**
Volume adjustments.
9. **AUDIO/TV MUTE Button**
Use this to access various audio functions on a disc.(DVD mode)
This operates as Sound Mute. (TV mode)
10. **MENU Button**
Brings up the DVD recorder's setup menu.
11. **OK/DIRECTION(▲▼◀▶) Buttons**
12. **TITLE LIST/DISC MENU Button**
Use this to enter the View Recording list/Disc menu.

13. **ANYKEY Button**
Use this to view the status of the disc that is being played.
14. **REC Button**
Use to make a recording on DVD-RW/-R discs.
15. **REC MODE Button**
This will display the recording status.(XP/SP/LP/EP)
16. **REPEAT Button**
Allows you to repeat a title, chapter, track or disc.
17. **OPEN/CLOSE Button**
To open and close the disc tray.
18. **SUBTITLE Button**
Press this to switch the DVD's subtitle language.
19. **PLAY/PAUSE Button**
Press to play a disc or pause playback/recording.
20. **PROG Buttons**
Select preset channels in a specific order.
Same as PROG buttons in front panel.
21. **RETURN Button**
Returns to a previous menu.
22. **PLAY LIST/TITLE MENU Button**
Use this to return to the Title menu, or to view the recorded files list.
23. **CANCEL Button**
24. **MARKER/TIMER Button**
Use this to bookmark a position while playing a disc.
Press to directly enter the Timer Recording Mode menu while stopping a disc.
25. **INFO Button**
This will display current settings or disc status.
26. **TV Button**
Press this to operate TV.
27. **DVD Button**
Press this when you use a DVD recorder.
28. **INPUT SEL. Button**
Select line input signal in external input mode
[PROG, AV input or DV INPUT(DVD-R130, R131 only)]
29. **ZOOM Button**
Press this to enlarge the screen.

Connecting & Setting Up

This section involves various methods of connecting the DVD Recorder to other external components and required initial setting modes.

Quick Overview.....	17
Connecting the DVD Recorder.....	18
Additional connections	18
Antenna + DVD Recorder + external decoder box + TV	19
Other type of connecting the Video output cable.....	19
Other type of connecting the Audio output cable.....	21
Connecting to AV3 IN, DV input jack (DVD-R130, R131 only).....	23

Quick Overview

A Quick Overview presented in this guide will give you enough information to start using the DVD Recorder.

Connecting the DVD Recorder



Additional connections



Antenna + DVD Recorder + external decoder box + TV



Other type of connecting the Video output cable



Other type of connecting the Audio output cable

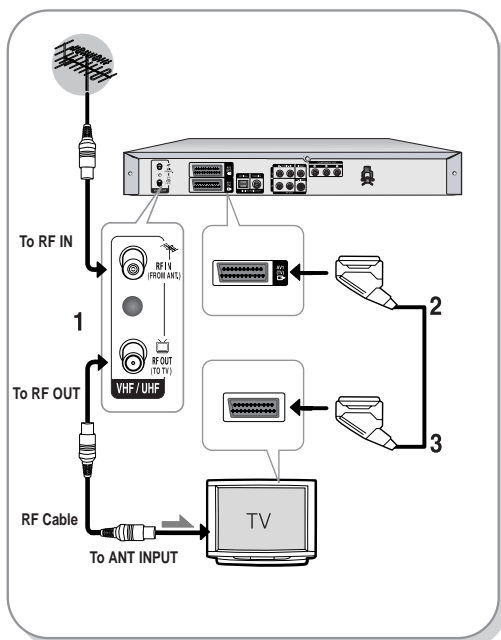


Connecting to AV3 IN, DV input jack (DVD-R130, R131 only)

Connecting the DVD Recorder

You can connect your DVD Recorder to the television using the SCART cable if the appropriate input is available on the television.

1. Connect the RF cable as shown.
2. Connect one end of the SCART cable to the AV1 socket on the rear of the DVD Recorder.
3. Plug the other end into the appropriate connector on the television.
4. Plug in the DVD Recorder and TV
5. Turn on the DVD Recorder and TV.
6. Press the **INPUT SEL.** button on your TV remote control until the Video signal from the DVD Recorder appears on the TV screen.

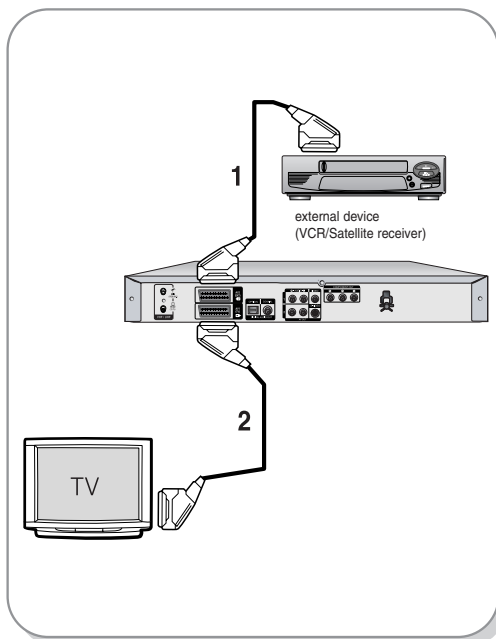


NOTE

- The RF cable connection of this DVD Recorder sends only signals of TV. You must connect SCART cable or Audio/Video cables to watch a signal from your DVD Recorder.
- TV mode
Press the TV/DVD button on remote control, then "TV" appear on Front LED display (or turn off DVD Recorder).

Additional connections

You can connect your DVD Recorder to a satellite or digital tuner.



- DVD mode

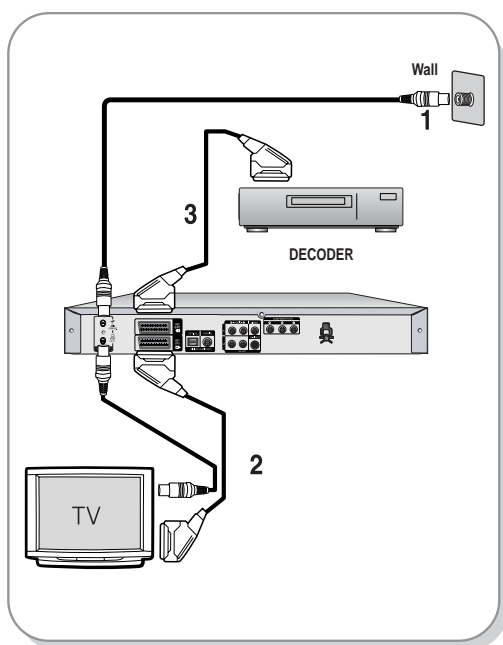
1. Connect the AV2 connector of DVD Recorder and VCR/Satellite receiver or digital tuner using a SCART cable.
2. Connect the AV1 connector to the SCART AV connector on TV.
3. Turn on the DVD Recorder, VCR/Satellite receiver or digital tuner and TV.
4. Set Input mode on AV2.

- TV mode

1. Press the TV/DVD button on remote control, then "TV" appear on Front LED display. (or turn off DVD Recorder.)
2. You can watch programmes from a satellite or digital tuner connected to this DVD Recorder, even when the DVD Recorder is turned off.

Antenna + DVD Recorder + external decoder box + TV

If you connect external decoder box to DVD recorder, you can record scrambled channels (CANAL+or Premiere broadcasts) received through the built-in TV tuner in DVD Recorder.



1. Connect RF antenna cables as shown.
2. Connect the AV1 connector on this recorder to the SCART AV connector on TV using a SCART cable.
3. Connect the AV2 connector to a SCART AV connector on decoder box.
4. To watch or record PAY-TV Canal Plus programmes, set your DVD Recorder to receive the channels using the on-screen display.(Refer to page 28)

Other type of connecting the Video output cable

There are several ways to output video signal not using scart cables. Select one of the following video connecting that best suits you below.

- **Case 1** : Connecting to a Video (Composite) output jack
- **Case 2** : Connecting to an S-Video output jack
- **Case 3** : Component Video output jacks

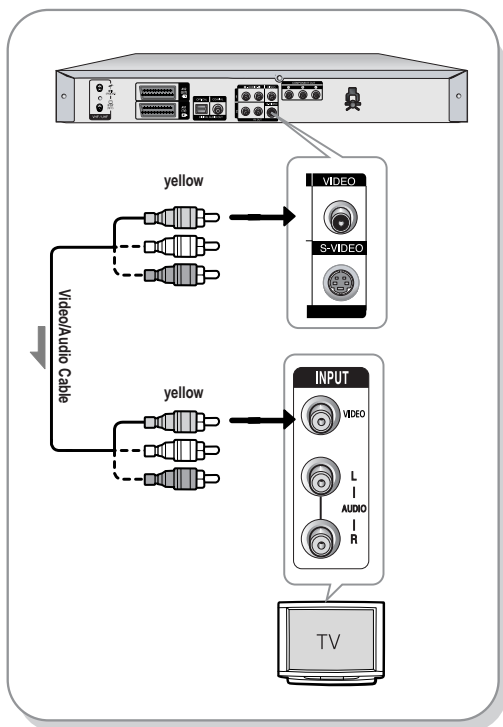
S-Video, Component video and Progressive Output Modes

- S-Video and Component video output are available only if your TV supports S-Video input or Component video input, respectively. If S-Video or Component video output does not work, check the TV connections and the TV input selection settings.
- Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a more stable, flicker-free, clear image than interlaced video.
This is only available with TVs that support progressive scan.
- Progressive Scan Output (576p)
Consumers should note that not all high definition television sets are fully compatible with this DVD Recorder and may cause artifacts to be displayed in the picture, in case of 576 progressive scan picture problems, It is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 576p DVD Recorder, please contact our customer service centre.

Case 1 : Connecting to a Video (Composite) output jack

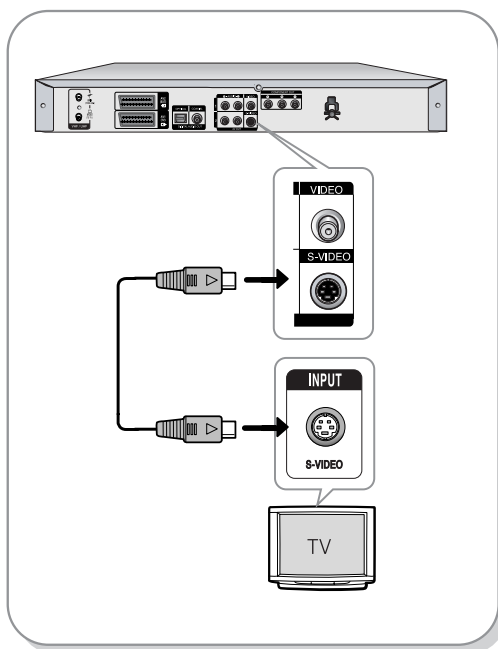
1. Connect a video(yellow) cable between the VIDEO (yellow) OUT jack on DVD Recorder and VIDEO (yellow) INPUT jack on your TV (or AV amplifier).
 - You will enjoy regular quality images.
2. Connect audio cables (white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on TV (or AV amplifier).

(See pages 21-22)



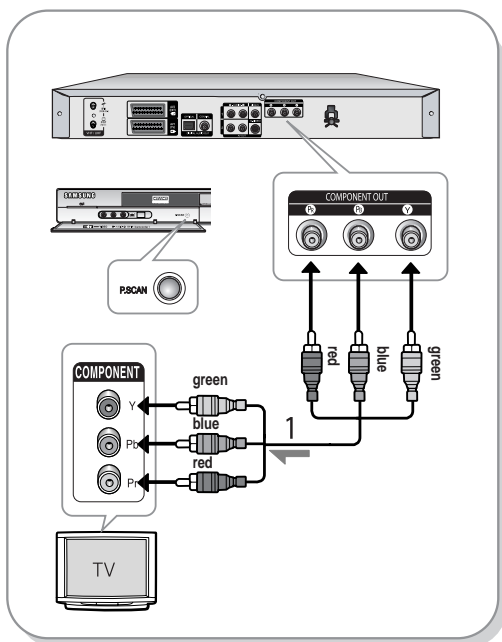
Case 2 : Connecting to an S-Video output jack

1. Connect an S-Video cable (not included) between the S-VIDEO OUT jack on DVD Recorder and S-VIDEO INPUT jack on your TV (or AV amplifier).
2. Connect audio cables (white and red) between the AUDIO OUT jacks on DVD Recorder and AUDIO IN jacks on TV (or AV amplifier).
 - You will enjoy high quality images.



Case 3 : Component Video output jacks

1. Connect Component video cables(not supplied) between the COMPONENT OUT(Y,P_B,P_R) jacks on DVD Recorder and COMPONENT IN(Y,P_B,P_R) jacks on your TV.
2. Connect audio cables (white and red) between the AUDIO OUT jacks on the DVD Recorder and AUDIO IN jacks on TV (or AV amplifier).
(See pages 21-22).
3. After connecting, refer to the page 34 to 35.
 - You will enjoy high quality and accurate colour reproduction images.



NOTE

- Make sure that the colour coded connections match. The Y, P_B, P_R component output jacks of your DVD Recorder must be connected to the exact corresponding component input jacks on your TV.
- Progressive setting is only available when the Video Out is set to Component.
(See page 34)

Other type of connecting the Audio output cable

There are several ways to output audio signal not using scart cables. Select the audio connection that best suits you below.

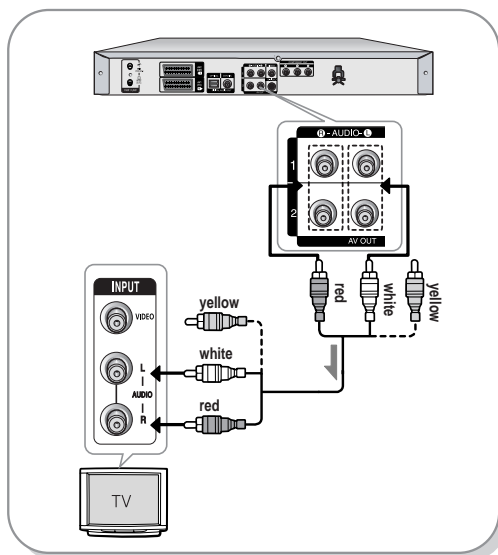
- **Case 1 :** Connecting to your TV
- **Case 2 :** Connecting to a stereo amplifier with AV output jacks
- **Case 3 :** Connecting to an AV amplifier with a digital output jack

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

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

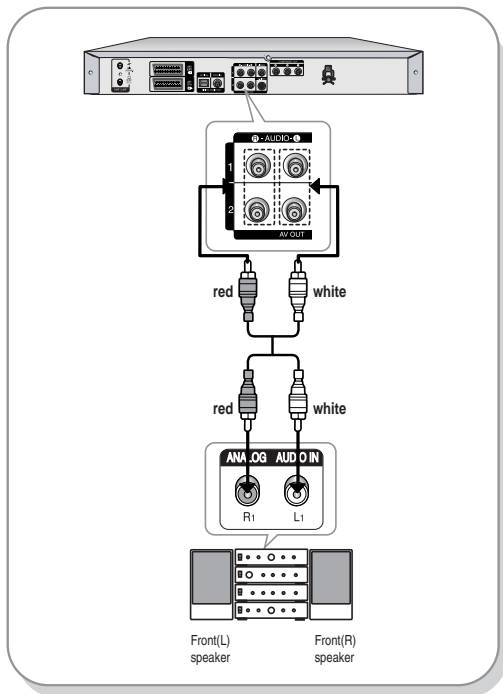
Case 1 : Connecting to your TV

If your TV has audio input jacks, use this connection.



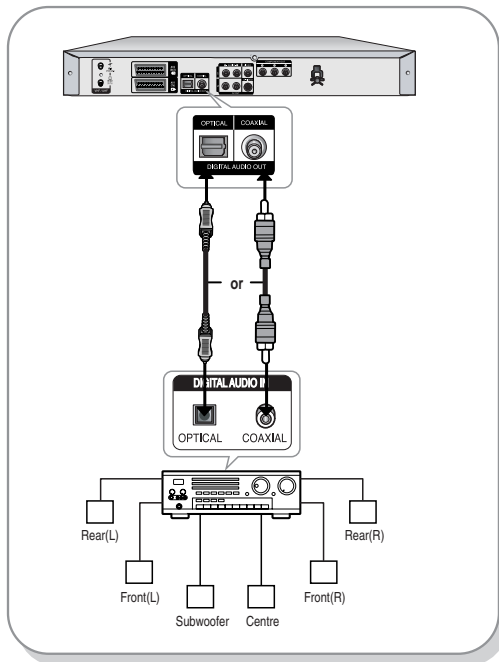
Case 2 : Connecting to a stereo amplifier with AV output jacks

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



Case 3: Connecting to an AV amplifier with a digital output jack

If your AV amplifier has a Dolby Digital, MPEG2 or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital, MPEG2 or DTS sound, you will need to set up the audio settings. (See pages 32-33)



Connecting to AV3 IN, DV input jack (DVD-R130, R131 only)

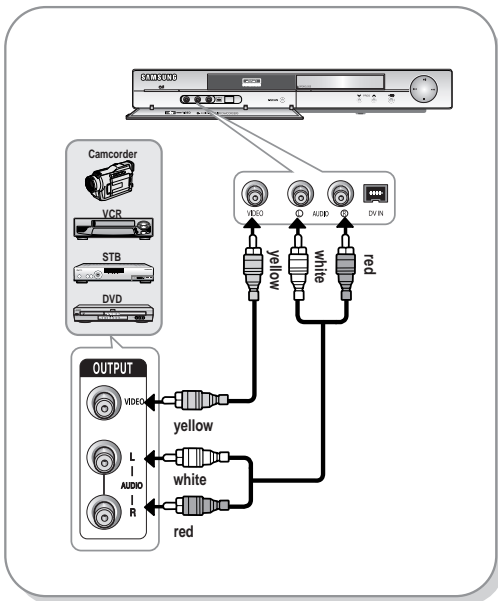
This allows you to connect your DVD Recorder to other external devices and view or record their outputs.

- **Case 1** : Connecting a VCR, Set-Top Box(STB), DVD player or Camcorder to the AV3 IN jacks
- **Case2** : Connecting a Camcorder to the DV IN jack (DVD-R130, R131 only)

Case 1 : Connecting a VCR, Set-Top Box(STB), DVD player or Camcorder to the AV3 IN jacks

Connecting a VCR or external device to AV3 IN jacks of the DVD Recorder.

You can record from connected equipment (VCR, STB, DVD player or Camcorder).

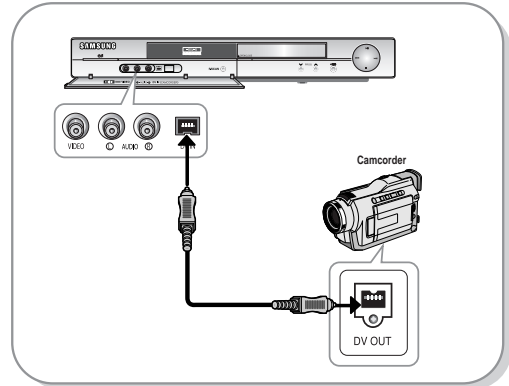


NOTE

- AV 3 IN selection will be automatically done. If the input is not selected automatically, use **INPUT SEL.** button to select proper input.
- Copy protected content cannot be recorded.

Case 2 : Connecting a Camcorder to the DV IN jack (DVD-R130, R131 only)

If your digital camcorder has a DV output jack, connect it to the DV input jack of your DVD Recorder.



NOTE

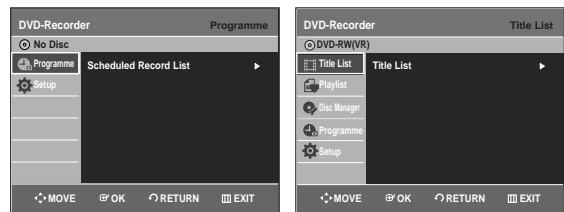
- If the input is not selected automatically, use **INPUT SEL.** button to select proper input.

System Setup

On-Screen Menu Navigation	24
Plug & Auto Setup	25
Setting the Clock	26
Presetting Channels with the Auto Setup function	27
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Setting up the Language Options	29
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Setting up the Parental Control	37

On-Screen Menu Navigation

The on-screen menus allow you to enable or disable various functions on your DVD Recorder. Use the following buttons to open and navigate through the on-screen menus.



1 MENU Button

Press this button on the remote control to open the on-screen MENU.
Press again to exit the on-screen MENU.

2 ▲▼, ◀▶ Buttons

Press these buttons on remote control to move the selection bar ▲▼, ◀▶ to cycle through the menu options.

3 OK Button

Press this button on the remote control to confirm any new settings.

4 RETURN Button

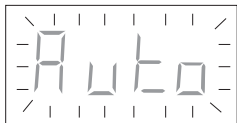
Press this button on the remote control to return to the Previous MENU screen displayed or to exit the on-screen MENU.

Plug & Auto Setup

Your DVD Recorder will automatically set itself up when it is plugged in for the first time. TV stations and clock will be stored in memory. The process takes a few minutes. Your DVD Recorder will then be ready for use.

1 Connect the RF cable as indicated on page 18.
(Connecting Your DVD Recorder to the TV Using the RF Cable and scart cable.)

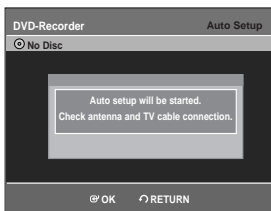
2 Plug the DVD Recorder into the mains.
"Auto" in the front panel display flickers.



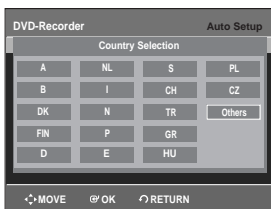
3 Select the language using the ▲▼ buttons, then press the OK button.



4 Press the OK button or wait for a few seconds to start the auto setup.



5 Select "Country" using the ▲▼◀▶ buttons to select your country then press the OK button.

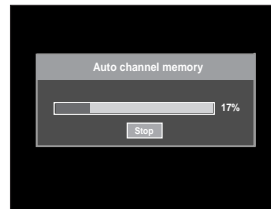


• Refer to following abbreviation table when selecting "Country".

A(Austria)	NL(Netherlands)	S(Sweden)	PL(Poland)
B(Belgium)	I(Italy)	CH(Swiss)	CZ (Czech)
DK(Denmark)	N(Norway)	TR(Turkey)	Others
FIN(Finland)	P(Portugal)	GR(Greece)	
D(Deutschland)	E(Spain)	HU(Hungary)	

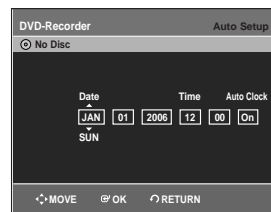
• The DVD Recorder searches for the stations according to a preset preference list corresponding to the country that you have selected.

6 Auto Channel scan will be started.



• The number of stations automatically stored by the DVD Recorder depends on the number of stations that it has found.

7 Check the date and time.



- if it is : Correct, press the **OK** button then the date and time will be saved. If you don't press the **OK** button, the date and time will be saved automatically after 5 seconds.
- if it is : Incorrect, input correct Time, Date, Year using ▲▼◀▶ buttons or number buttons. Press the **OK** button then the date and time will be saved. When you need to change clock setting, you can set up it manually. (see page 26.)



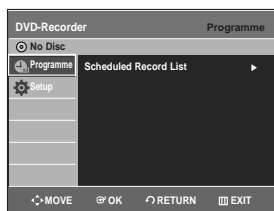
NOTE

- Now, DVD Recorder is ready for use. Function for "Plug & Auto Setup" is fixed already. So if you want to change this fixed one, you can change it by Presetting the Stations in OSD "Presetting Channels with the Manual set up function" menu. (see page 28)
- Auto Setup function can be performed by pressing and holding down the PROG (^ \) buttons on the front panel of the DVD Recorder simultaneously for more than 5 seconds with no disc in the DVD Recorder.

Setting the Clock

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

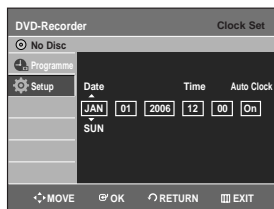
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



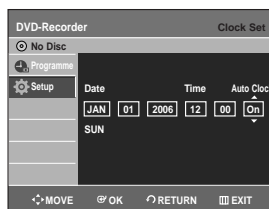
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Clock Set**, then press the **OK** or **▶** button.
Use the **▲▼◀▶** buttons to input Time, Date or Year.
Use number buttons to input clock data directly.



- 4 Press the **▲▼** buttons to select **On** for the Auto Clock.



- 5 Press the **OK** button, then the date and time will be saved.
If you don't press the OK button, it will not be saved.



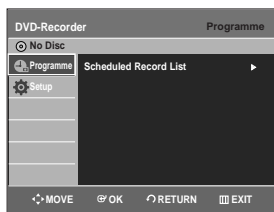
NOTE

- You must have the RF cable connected to set the Auto Clock. (See page 18)
- The DVD Recorder automatically sets the clock according to the time signal broadcast between the channels PR1 to PR5. If you do not need the Auto clock set function, select Off.

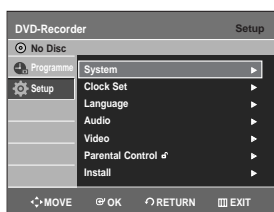
Presetting Channels with the Auto Setup function

This feature allows you to manually set the DVD Recorder tuner band to Antenna or Cable, whichever you connected to the Antenna In jack during initial setup.

- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



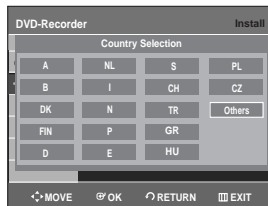
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Install**, then press the **OK** or **▶** button.



- 4 Press the **▲▼** buttons to select **Auto Setup**, then press the **OK** or **▶** button. The Country Selection screen is displayed.

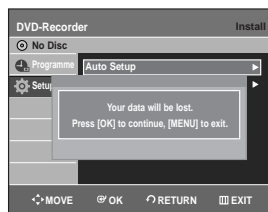


- 5 Press the **▲▼◀▶** buttons to select your "Country", then press the **OK** button.
 - The DVD Recorder searches for the stations according to a preset preference list corresponding to the country that you have selected.

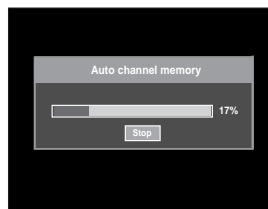
Refer to following table when selecting your country.

A(Austria)	NL(Netherlands)	S(Sweden)	PL(Poland)
B(Belgium)	I(Italy)	CH(Swiss)	CZ (Czech)
DK(Denmark)	N(Norway)	TR(Turkey)	Others
FIN(Finland)	P(Portugal)	GR(Greece)	
D(Deutschland)	E(Spain)	HU(Hungary)	

- 6 Press the **OK** button to continue. If you want to exit, press the **MENU** button.



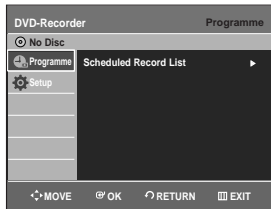
- 7 Channel scan will be started. Press the **OK** button to stop the Auto Setup.



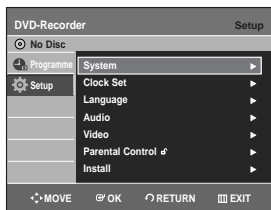
Presetting Channels with the Manual Setup function

You can add preset channel that Auto Channel Search missed. And you can delete a channel you wish to remove. You can programme the order of channels.

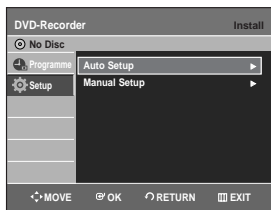
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



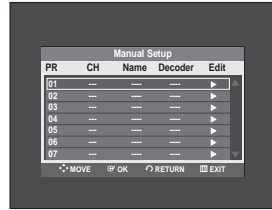
- 2 Press the $\blacktriangle/\blacktriangledown$ buttons to select **Setup**, then press the **OK** or \blacktriangleright button.



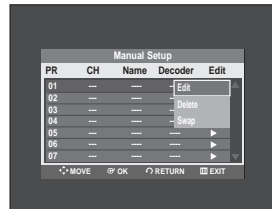
- 3 Press the $\blacktriangle/\blacktriangledown$ buttons to select **Install**, then press the **OK** or \blacktriangleright button.



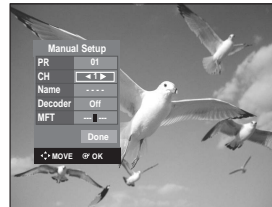
- 4 Press the $\blacktriangle/\blacktriangledown$ buttons to select **Manual Setup**, then press the **OK** or \blacktriangleright button.



- 5 Press the $\blacktriangle/\blacktriangledown$ buttons to select a **PR** (programme) you wish to edit, delete, or swap, then press the **OK** or \blacktriangleright button. Select **Edit**, **Delete** or **Swap** using the $\blacktriangle/\blacktriangledown$ buttons, then press the **OK** or \blacktriangleright button.



- **Edit** : You can add or edit PR(programme). After change PR informations(CH, Name, Decoder, MFT), select **Done**, then press the **OK** button.



- **CH** : Tune the channel using $\blacktriangle/\blacktriangledown$ buttons.
- **Name** : Display station name automatically detected in broadcasting signal. If not detected, you can edit name by using $\blacktriangle/\blacktriangledown/\blacktriangle/\blacktriangleright$ buttons.
- **Decoder** : If you set on, you can record scrambled channels using external decoder box. Before setting on, refer to connecting external decoder box in the page 19.
- **MFT** : You can tune up the channel frequency better using $\blacktriangle/\blacktriangleright$ buttons.

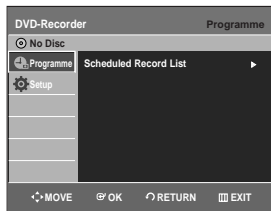
- **Delete** : the channel information of selected PR(programme) will be removed.

- **Swap** : You can swap the channel information of two PR(programme). For example, if you wish to swap PR2 and PR5, select swap at PR2, then press the **OK** button at PR5.

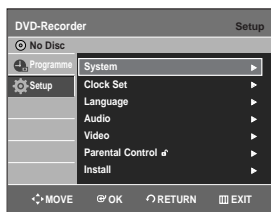
Setting up the Language Options

If you set the audio, subtitle, disc menu, on-screen menu, DivX subtitle language in advance, they will come up automatically every time you watch a movie. If the selected language is not recorded on the disc, the original pre-recorded language is selected.

1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



3 Press the **▲▼** buttons to select **Language**, then press the **OK** or **▶** button. Language setup menu will be displayed.



4 Press the **▲▼** buttons to select the desired language option, then press the **OK** or **▶** button.

- **Audio** : For the speaker sound.
- **Subtitle** : For the disc subtitles.
- **Disc Menu** : For the disc menu contained on the disc
- **On-Screen Menu** : For the screen of your DVD Recorder
- **DivX Subtitle**: Selecting a supported DivX subtitle language by region.

Western	Afrikaans, Basque, Catalan, Danish, Dutch, English, Faeroese, Finnish, French, German, Icelandic, Indonesian, Italian, Malay, Norwegian, Portuguese, Spanish, Swahili and Swedish
Central	English, Albanian, Croatian, Czech, Hungarian, Polish, Romanian, Serbian(Latin), Slovak and Slovenian
Greek	English and Greek
Cyrillic	English, Azeri, Belarusian, Bulgarian, Kazakh, Macedonian, Russian, Serbian, Tatar, Ukrainian and Uzbek

5 Press the **▲▼** buttons to select the desired language, then press the **OK** or **▶** button.

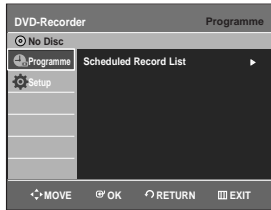


- Press the **RETURN** or **◀** button to return to the previous menu. Press the **MENU** button to exit the menu.
- The selected language will only appear if it is supported on the disc.
- If the subtitle language is displayed in broken fonts, change DivX Subtitle to the appropriate region. If it still does not work, the format is not supported.

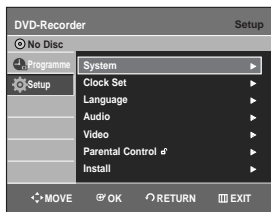
EP Mode Time Setting

You can select one of four recording modes by pressing the **REC MODE** button repeatedly. EP mode is one of four REC Mode (XP,SP,LP,EP). In EP(Extended Play) mode, you can set recording time to 6 or 8 hours by this setting.

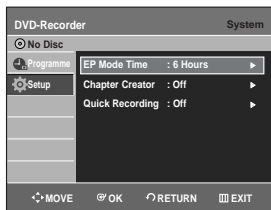
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



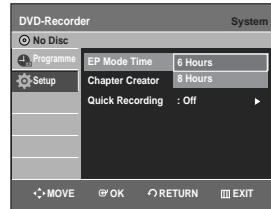
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **System**, then press the **OK** or **▶** button. System menu will be displayed.



- 4 Press the **▲▼** buttons to select **EP Mode Time**, then press the **OK** or **▶** button.



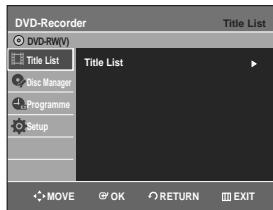
- 5 Press the **▲▼** buttons to select the desired time, then press the **OK** or **▶** button.

Automatic Chapter Creation

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



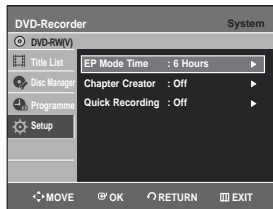
1 With the DVD Recorder in Stop mode, press the **MENU** button.



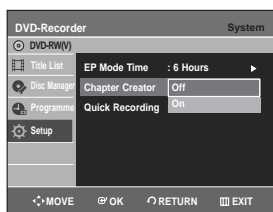
2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



3 Press the **▲▼** buttons to select **System**, then press the **OK** or **▶** button. System menu will be displayed.



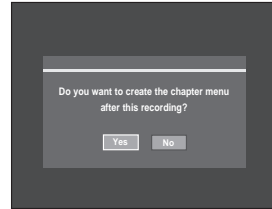
4 Press the **▲▼** buttons to select **Chapter Creator**, then press the **OK** or **▶** button.



5 Press the **▲▼** buttons to select **On** or **Off**, then press the **OK** or **▶** button.

- **Off:** Select this option when you do not want (Automatic Chapter Creation).
- **On:** Select this option when you want (Automatic Chapter Creation).

6 Press the **REC** button to start recording. (See page 42 about how to set recording mode) The message "Do you want to create the chapter menu after this recording?" is displayed.

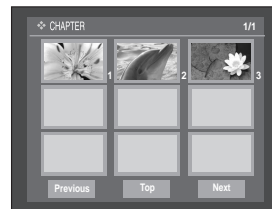


7 Press the **◀▶** buttons to select **Yes** and press the **OK** button.

- A new chapter is created according to the selected recording mode. A chapter will be about 5 minutes long in XP and SP, and about 15 minutes long in LP and EP mode.

8 Press the **STOP** button to stop recording.

9 To display the created chapters, finalise the disc (see page 84) and then press the **DISC MENU** button. The chapter menu will be displayed.



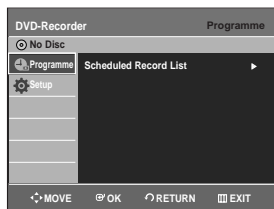
CAUTION

- The Automatic Chapter Creation function does not work during Timer Recording or when you turn the power off.
- DVD-R discs cannot be unfinalised.

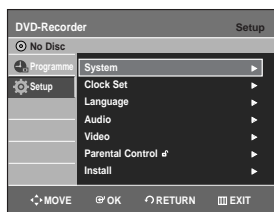
Quick Recording Setting

If this function is set to on, both the DVD Recorder and the TV will power on at the same time, which enables you to immediately record a desired channel.

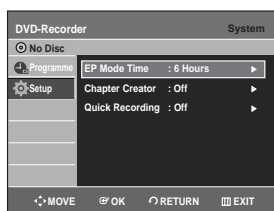
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



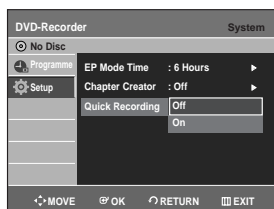
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **System**, then press the **OK** or **▶** button. System menu will be displayed.



- 4 Press the **▲▼** buttons to select **Quick Recording**, then press the **OK** or **▶** button.



- 5 Press the **▲▼** buttons to select **On**, then press the **OK** or **▶** button.

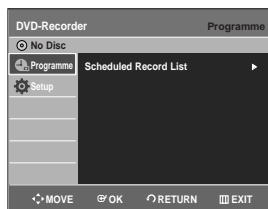
DivX(R) Registration

Please use the Registration code to register this DVD Recorder with the DivX(R) Video On Demand format. For more information, visit www.divx.com/vod

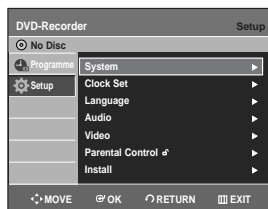
Setting up the Audio Options

You can connect the DVD Recorder to an external amp or Home Theatre. Allow you to setup the Audio device and sound status depending on the audio system in use.

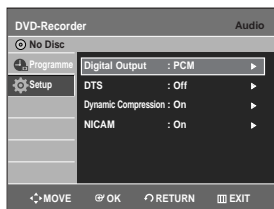
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



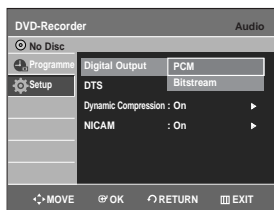
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3** Press the ▲▼ buttons to select **Audio**, then press the **OK** or ► button.
Audio setup menu will be displayed.



- 4** Press the ▲▼ buttons to select the desired audio option, then press the **OK** or ► button.



- 5** Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.



NOTE

- Press the **RETURN** or ◀ button to return to the previous menu.
Press the **MENU** button to exit the menu.

Audio Options

Digital Output

- PCM** : Select this when you have no equipment that can decode Dolby Digital (or MPEG-2) signal. When you play Dolby Digital (or MPEG-2) sound track, the digital output are converted to PCM Stereo.
- Bitstream** : Output Dolby Digital (or MPEG-2) audio as bitstream. Select this when your AV receiver or AV amplifier have Dolby Digital (or MPEG-2) Decoder.



NOTE

- Digital output setting is equally applied to both Dolby Digital and MPEG-2 audio. LPCM sound track is always outputted as PCM. It has no relation with Digital Output setting.
- Be sure to select the correct Digital Output or you will hear no sound or loud noise.

DTS

- Off** : Doesn't output DTS signal.
Select this when your AV receiver or AV amplifier does not have DTS decoder.
- On** : Outputs DTS Bitstream via digital output when you play DTS track.
Select this only when your AV receiver (or AV amplifier) have DTS decoder.



NOTE

- When DTS soundtrack is played, sound does not output from AV Audio Output.

Dynamic Compression

This is only active when a Dolby Digital signal is detected.

- Off** : You can enjoy the movie with the standard Dynamic Range.
- On** : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

NICAM

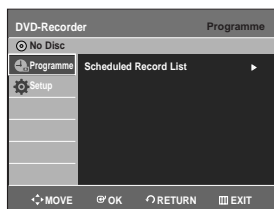
NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound by setting NICAM on or off.

- On** : NICAM mode
- Off** : Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.

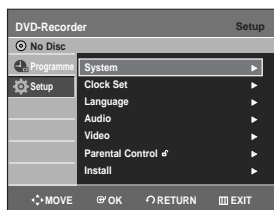
Setting up Video Output Options

You can enjoy high quality image through RGB or Component video connections.

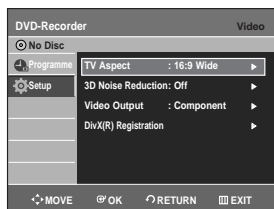
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



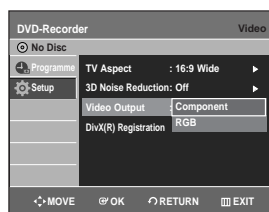
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Video**, then press the **OK** or **▶** button. Video setup menu will be displayed.



- 4 Press the **▲▼** buttons to select **Video Output**, then press the **OK** or **▶** button.



Component	Select this when the DVD Recorder is connected to a TV with Component jack.
RGB	Select this when the DVD Recorder is connected to your TV using SCART cable.

- 5 Press the **▲▼** buttons to select the desired item, then press the **OK** or **▶** button.

In Component mode, you can set video output to Progressive(P.SCAN) or Interlace, see page 35.

Available video output jacks are as follow.

Available Video Output Jack

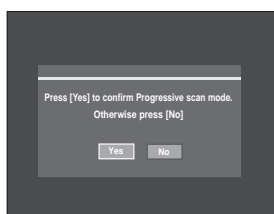
Output jack	Setting mode	Component mode		RGB Mode
		P.SCAN off mode (Interlace mode)	P.SCAN on mode (TV in progressive mode)	
Component Output (Y, Pb, Pr)	R, G, B	0	0	X
AV1 Scart	Composite	X	X	0
	Composite	0	X	X
Composite Video out		0	X	0
S-Video out		0	X	0

Setting up the Progressive scan

If the TV supports Progressive Scan, press the **P.SCAN** button on the front of the DVD Recorder to enjoy.

- 1 With the DVD Recorder in Stop mode, press the **P.SCAN** button on the front of the DVD Recorder.

The message "Press [Yes] to confirm Progressive scan mode. Otherwise press [No]" will appear.



- 2 Press the ◀▶ buttons to select **Yes**, and then press the **OK** button.

- 3 Set your TV to Progressive input (using the TV remote control.)

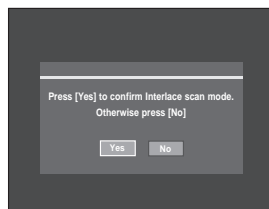


NOTE

- Do not press the **P.SCAN** button if you are using a TV that does not support Progressive mode. Nothing will be displayed on the screen if pressed.
- Progressive setting is only available when the Video Out is set to Component.
- If the **P.SCAN** button on the DVD recorder's front panel is pressed during playback, the prohibition mark(⊘) appears on the screen.
- Progressive setting is only available when the DVD recorder is in stop mode.

Canceling the Progressive scan

- 1 With the DVD Recorder in Stop mode, press the **P.SCAN** button on the front of the DVD Recorder.
The message "Press [Yes] to confirm Interface scan mode. Otherwise press [No]" will appear.



- 2 Press the ◀▶ buttons to select **Yes**, and then press the **OK** button.

- 3 Set your TV to Interlace input (using the TV remote control.)



NOTE

- If you press the **P.SCAN** button by mistake when your TV does not support Progressive mode, you need to release the Progressive mode. To release the Progressive mode, press the **P.SCAN** button on the front panel 2 times.
The screen will recover after the **PS** LED on the front panel display turns off.

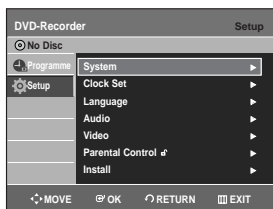
Setting up the Display(Video) Options

This function allows you to setup the TV screen settings.

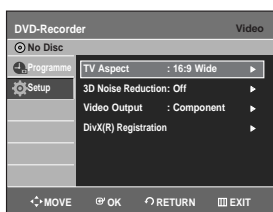
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



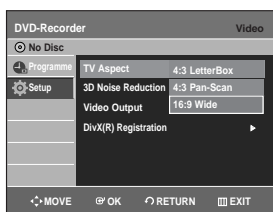
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Video**, then press the **OK** or **▶** button.
Video setup menu will be displayed.



- 4 Press the **▲▼** buttons to select the desired video option, then press the **OK** or **▶** button.



- 5 Press the **▲▼** buttons to select the desired item, then press the **OK** or **▶** button.



NOTE

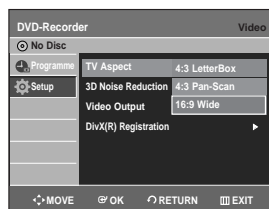
- Press the **RETURN** or **◀** button to return to the previous menu. Press the **MENU** button to exit the menu.

Display(Video) Options

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

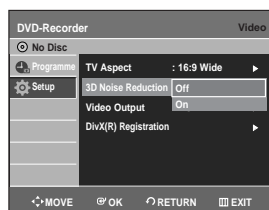
TV Aspect

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



- **4:3 LetterBox** : 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.)
- **16:9 Wide** : You can view the full 16:9 picture on your widescreen TV.

3D Noise Reduction (motion adaptive noise reduction)



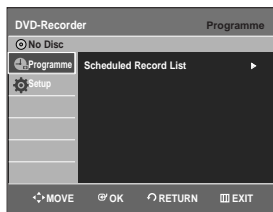
- **On** : Provides a cleaner picture through noise reduction (for recording).
- **Off** : Normal

Setting up the Parental Control

The Parental Control 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.



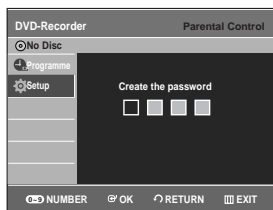
- 1 With the DVD Recorder in Stop mode/No Disc mode, press the **MENU** button.



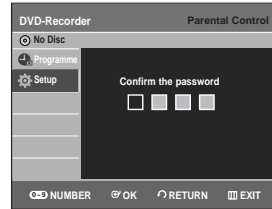
- 2 Press the **▲▼** buttons to select **Setup**, then press the **OK** or **▶** button.



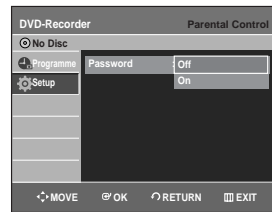
- 3 Press the **▲▼** buttons to select **Parental Control**, then press the **OK** or **▶** button. The 'Create the password' message will be displayed.



- 4 Enter the 4-digit password using the **0** to **9** buttons on the remote control. The 'Confirm the password' message will be displayed. Enter your password again.



- 5 Press the **OK** or **▶** button to select **Password**.



- 6 Press the **▲▼** buttons to select **On** or **Off**, then press the **OK** or **▶** button.



NOTE

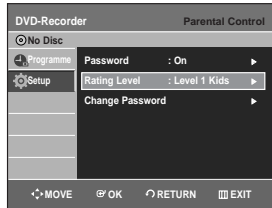
- Press the **RETURN** or **◀** button to return to the previous menu. Press the **MENU** button to exit the menu.

If you forgot your password

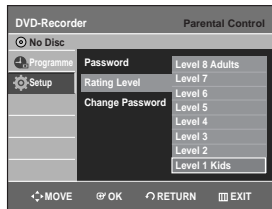
- 1 Remove the disc.
- 2 Press and hold down the **PROG** (**^v**) buttons on the front panel of the DVD Recorder simultaneously for more than 5 seconds with no disc in the DVD Recorder. All setting including the password will revert to the factory setting.

About the Rating Level

- 1 Press the ▲▼ buttons to select **Rating Level**.



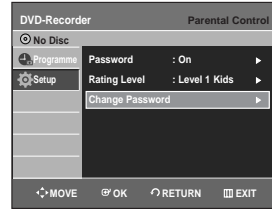
- 2 Press the **OK** or ► button.
The rating level will be displayed.



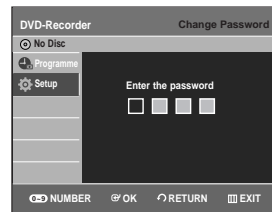
- 3 Press the ▲▼ buttons to select Rating Level you want, then press the **OK** or ► button.
For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the programme is intended for adult use only.

About the Change Password

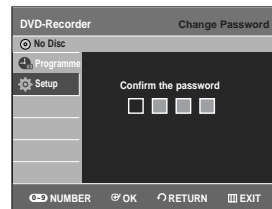
- 1 Press the ▲▼ buttons to select **Change Password**.



- 2 Press the **OK** or ► button.
The 'Enter the password' message will be displayed.



- 3 Enter the 4-digit password using the **0** to **9** buttons on the remote control.
The 'Confirm the password' message will be displayed.
Enter your password again.



NOTE

- See page 37 if you forgot your password.

Recording

This section shows various DVD recording methods.



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Before Recording

This DVD Recorder 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 DVD Recorder can record on the following discs.

DVD-RW	DVD-R
	

- DVD-RWs are rewritable.
- DVD-Rs are non-rewritable

Compatibility between Samsung and Other Company's Recorder

Disc Types	Recording format	Recording Device	Finalising	Additional Recording in Samsung Recorder
DVD-RW	VR Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Recordable
	V Mode	Samsung	finalised	Not recordable
		Other Company	finalised	Not recordable
DVD-R	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable



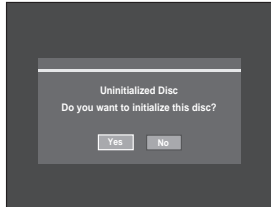
NOTE

- Finalise
 - This closes the DVD-R/-RW so no additional recording can be done.
- Unfinalise
 - This allows additional recording on a DVD-RW disc originally recorded on the DVD Recorder.
 - A DVD-RW disc that has been recorded by DAO(Disc At Once) in a PC cannot be unfinalised.
 - A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalised.
 - A DVD-R disc cannot be unfinalised.

Recording Formats

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

DVD-RW: When a blank disc is first inserted, the message "Uninitialized Disc Do you want to initialize this disc?" will appear. When Yes is selected, the disc will be formatted in VR Mode.



If you want to format in either VR Mode or Video Mode, refer to Formatting a Disc on pages 82-83.



DVD-R: Formatting DVD is unnecessary and only Video Mode Recording is supported

DVD-RW(Video mode)/-R

- Chapters will be created automatically when you finalise recording on DVD-R / DVD-RW discs in Video mode with the Chapter Creator has been set to On. The chapter's length (interval between chapters) varies according to the recording mode.
- Simple editing (erasing titles/changing title name)

DVD-RW(VR mode)

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

Recording Mode

Select one of four recording modes by pressing the **REC MODE** button repeatedly while the DVD Recorder is in Stop mode for the desired recording time and picture quality.

In general, picture quality improves as the recording time decreases. In FR mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording.

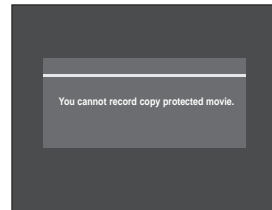
This function is selected only one mode in XP, SP, LP and EP modes and you can use this mode for timer recording.

Mode	Characteristic	Recording Times Data Rates
XP (high quality mode)	Select when the video quality is important.	Approx. 1 hour about 8 Mbps
SP (standard quality mode)	Select to record in standard quality.	Approx. 2 hours about 4 Mbps
LP (long recording mode)	Select when a long recording time is required.	Approx. 4 hours about 2 Mbps
EP (extended mode)	Select when a longer recording time is required.	Approx. 6 hours/ about 1,2 Mbps Approx. 8 hours/ about 0,8 Mbps
FR (Flexible Recording)	for timer recording only see page 46.	Approx 60 to 480 Min Approx 0,8 to 8Mbps

Unrecordable video

Video with copy protection cannot be recorded on this DVD Recorder.

When the DVD Recorder receives a copy guard signal while recording, recording stops and the following message 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 programme, use DVD-RW with CPRM in VR Mode.

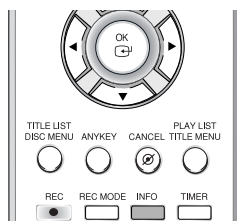
Media \ Signal type	Copy-Free	Copy-Once	Copy-Never
DVD-RW	O	-	-
DVD-RW with CPRM			
VR mode	O	O*	-
Video mode	O	-	-
DVD-R	O		-

Once "Copy Once" has been recorded, recording cannot be done anymore.

- 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 recorders, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA. When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID. During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

About INFO Button

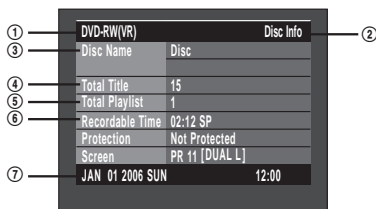


The INFO function allows you to view the current status and progress of playback and recording. Depending on the disc type and status, the displayed screen may be different.

Checking the available disc space (Disc Information)

When recording on an used disc, make sure that there is enough disc space for recording. With DVD-RWs, you can free up disc space by erasing titles.

- Press the **INFO** button.
The display window of disc information appears. Items in the display differ depending on the disc type or recording format.



1. Disc Type
2. Current information display status
3. Disc Name
4. Total Title : Total number of titles
5. Total Playlist : Total number of Playlists
6. Recordable Time : The longest continuous recording time in each of the recording modes(approximate)
7. Date : Current date and time

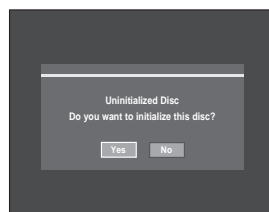
Recording the current TV programme you are watching



Before you start

Check that the disc has enough available space for the recording. Adjust the recording mode.

- 1 Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.
- 2 Press the **OPEN/CLOSE** button to close the disc tray.
Wait until "LOAD" disappears from the front panel display.
If an unused DVD-RW disc is used, whether to initialize or not will be asked first. Make your selection, then press the **OK** button.(See page 40.)



- 3 Press the **PROG** (◀/▶) or number (①~⑨) buttons to select the current programme you want to record.

- 4** Press the **REC MODE** button repeatedly, (or press the **REC MODE** button, then press the **▲▼** button) to select the recording speed(quality).

→ **SP** → **LP** → **EP** → **XP**



- 5** Press the **REC** button. Information concerning the channel is displayed on the screen, then recording begins. REC icon (O) is displayed on the front panel.



To view the current status of the disc and progress of recording : Press the **INFO** button, the information about the disc will appear.

DVD-RW(VR)		Disc Info
Disc Name		
Total Title	16	
Total Playlist	1	
Recordable Time	02:12 SP	
Protection	Not Protected	
Screen	PR 1 [DUAL L]	
JAN 01 2006 SUN	12:00	

Press the **INFO** button once again to view information about the recording.

DVD-RW(VR)		Recording Info
Name	JAN/01/2006 12:00 PR1	
Recording Title	16	
Created Time	JAN/01/2006 12:00	
Recording Time	00:00:07	
JAN 01 2006 SUN	12:00	

To stop recording

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

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



NOTE

- You can not change the recording mode and the PROG while recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a disc.
- Recording will stop automatically if a copy protected image is selected.
- DVD-RW discs must be formatted before starting to record. Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this DVD Recorder.

Recording from external equipment you are watching



Before you start

Check that the disc has enough available space for the recording. Adjust the recording mode.

1 Press the **OPEN/CLOSE** button, place a recordable disc on the disc tray.

2 Press the **OPEN/CLOSE** button to close the disc tray.

Wait until "LOAD" disappears from the front panel display.

If an unused DVD-RW disc is used, whether to initialize or not will be asked first. (See page 40)

3 Press the **INPUT SEL.** button to select the input source according to the connection you made.

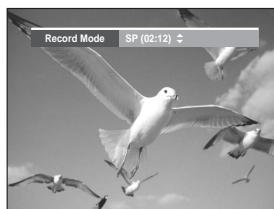
The front panel display changes in the following sequence: (DV input is display only DVD-R130, R131)

→ PR Number → AV1 → AV2 → AV3 → DV

If you connect a digital camcorder, press the **INPUT SEL.** button to select DV. (See pages 43-44)

4 Press the **REC MODE** button repeatedly, (or press the **REC MODE** button, then press the **▲▼** button) to select the recording speed(quality).

→ SP → LP → EP → XP



5 Press the **REC** button.

To pause recording

Press the **PLAY/PAUSE**(⏮) button to pause a recording in progress.

- Press the **PLAY/PAUSE**(⏮) button again to resume recording.
- You can switch channels by pressing the **PROG** (⏪/⏩) buttons while recording pauses.

To stop recording

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

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



NOTE

- You can not change the recording mode while recording or Pause.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a disc.
- Recording will stop automatically if a copy protected image is selected.
- DVD-RW discs must be formatted before starting to record. Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this DVD Recorder.

Copying from a Camcorder (DVD-R130, R131 only)

You may control the Camcorder using the IEEE1394 (DV) interface.



Before you start

Check that the disc has enough available space for the recording. Adjust the recording mode.

1 Press the **OPEN/CLOSE** button, place a recordable disc on the disc tray.

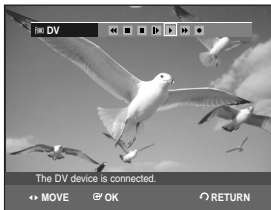
- 2** Press the **OPEN/CLOSE** button to close the disc tray.
Wait until "LOAD" disappears from the front panel display.
If an unused DVD-RW disc is used, whether to initialize or not will be asked first. (See page 40.)

- 3** Press the **REC MODE** button repeatedly, (or Press the **REC MODE** button, then press the **▲▼** button) to select the recording speed(quality).

→ SP → LP → EP → XP →



- 4** Press the **INPUT SEL.** button to select **DV**.
If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.



- 5** To play the camcorder and find the starting point to be copied, select the play icon(▶) on the top of the screen using the **◀▶** buttons and then press the **OK** button.

- 6** To start recording, select the record icon(●) on the top of the screen using the **◀▶** buttons and then press the **OK** button.
You can also use the **REC** button on the remote control to start recording. (If your camcorder is in stop mode, the **REC** button doesn't work.)

To stop recording

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

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



NOTE

- You can not change the recording mode and input source while recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a disc.
- Recording will stop automatically if a copy protected image is selected.
- DVD-RW discs must be formatted before starting to record. Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this DVD Recorder.
- If you connect a camcorder using DV jack, the related control menu appears automatically. To access on the screen controls during recording, press **◀** or **▶** button.

Making a One Touch Recording (OTR)



You can set the DVD Recorder to record in preset increments by pressing the **REC** button repeatedly.

- 1** If you want to record a TV channel, press the **PROG** (☉/☉) or number buttons to select a desired channel.
If you want to record through a connected external component, press the **INPUT SEL.** button to select an appropriate external input [**AV1**, **AV2**, **AV3** or **DV(DVD-R130, R131 only)**].
• TV PROGRAMME: 1 to 99

- 2** Press the **REC** button to start recording.

- 3** Press the **REC** button repeatedly to adjust the desired recording time.

→ 0:30 → 1:00 → ... 4:00 → 5:00 → ... 9:00 → normal →



NOTE

- The timer counter decreases by the minute from 9:00 to 0:00, then the DVD Recorder stops recording and is powered off.

To view the current status of the disc and progress of recording : Press the **INFO** button, and information about the disc will appear.

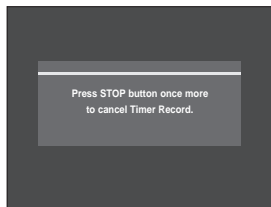
DVD-RW(VR)		Disc Info
Disc Name		
Total Title	16	
Total Playlist	1	
Recordable Time	02:12 SP	
Protection	Not Protected	
Screen	PR 1 [DUAL L]	
JAN 01 2006 SUN	12:00	

Press the **INFO** button once again. Then you can check the information about the title being recorded.

DVD-RW(VR)		Recording Info
Name	JAN01/2006 12:00 PR1	
Recording Title	16	
Created Time	JAN/01/2006 12:00	
Recording Time	00:00:07	
JAN 01 2006 SUN	12:00	

To stop recording

Press the **STOP** button. The message "Press STOP button once more to cancel Timer Record." is displayed.



Press the **STOP** buttons once more to stop recording.

Making a Timer Recording

Before you start

1. Check the antenna cable is connected.
2. Check the remaining time of the disc.
3. Check the date and time are correct. Make sure the Clock (Setup-Clock Set) must be set before you proceed with a timer recording. (See page 26)



- 1 With the DVD Recorder in Stop mode, press the **TIMER** button.



Using the MENU button.

- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Programme**, then press the **OK** or **▶** button.

- 2 Press the **OK** or **▶** button twice.
 - The Timer Recording screen is displayed.

DVD-Recorder		Scheduled Record List				
DVD-RW(VR)		Current Time 12:05				
No.	Source	Day	Start	End	Speed	VIP Edit
No. 01						
▲	PR 01	01 SUN	12:05	14:05	SP	Off
▼	Available Time 00:48 SP					

- 3 Set timer recording option.
 - Fill the input items using the direction buttons and number buttons.
 - ◀▶ : Moves to the previous/next item,
 - ▲▼, 0~9 : Sets a value.

- **Source** : The video input source (“AV1”, “AV2”, “AV3”) or the broadcasting channel you want to make a timer recording from.
- **Day** : Timer Recording allows setting the recording time within one month period. Set the recording day.

01 SUN	Daily
02 MON	MO-SA
03 TUE	MO-FR
04 WED	W-SA
⋮	⋮
31 TUE	W-SU
- **Start/End Time** : Start and end time of the timer recording.
- **Speed (Recording Mode)** :
 - **FR (Flexible Recording)** : Select when you want to set video quality automatically. In FR 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 XP, SP, LP and EP modes and you can use this mode for timer recording.
 - **XP (high quality)** : Select when video quality is important. (Approx. 1 hour)
 - **SP (standard quality)** : Select to record in standard quality. (Approx. 2 hours)
 - **LP (low quality)** : Select when a long recording time is required.(Approx. 4 hours)
 - **EP (extended)** : Select when a longer recording time is required. (Approx.6 hours or 8 hours)
- **V/P** : VPS(Video Programme System) or PDC(Programme Delivery Control) function.
 - If you set this function on, you can control the starting and ending time of recording by special signal included in the broadcasting signal. If a TV programme is shortened or starts earlier or later than scheduled, this function synchronizes the starting and ending time of recording with the actual broadcasting time automatically.
 - Set up the start-time EXACTLY according to the published TV schedule. Otherwise the timer recording will not take place.
 - Do not select PDC or VPS unless you are sure the programme you wish to record is broadcast with PDC or VPS.



NOTE

- When you are recording at EP mode on a DVD-RW(V)/-R disc, it may not record the full 6 or 8 hours because the DVD Recorder uses the VBR(Variable Bit Rate) ENCODING system. For example, if you record a programme with a lot of action, it uses a higher bit rate which in turn consumes more disc memory.

4 Press the OK button.

If the timer settings overlap

The programmes are recorded in order of priority. If timer recording is set for the first programme and then again for the second programme and both programmes overlap, the following message will appear on the screen: “This setting is identical with 1”The message shows that the first programme has priority. After recording of the first programme is complete, the second programme starts being recorded.

To exit without saving the current setting

Press the **MENU** button.

To return to the previous menu

Press the **RETURN** button if you don't want to set a timer recording.

5 Turn the power off to finish the Timer Recording setting. Timer Recording will not work when the power is on.

- ☹ will appear on the front panel. It means that a timer recording is registered.
- ☹ will blink if disc is not inserted.



NOTE

- 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 2 minutes before the start time of the next recording.)
- You can make the Timer Recording up to 12 programmes.

Flexible Recording (for Timer recording only)



In FR 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 XP, SP, LP and EP modes and you can use this mode for timer recording.

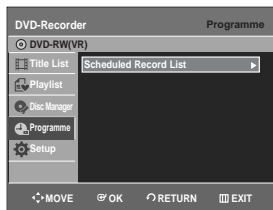
The FR mode recording setup is the same as Timer Recording. When setting the mode in step 3, set FR Mode.(See pages 45-46.)

Editing the Scheduled Record List

Follow these directions to edit the timer record list.



- 1 With the DVD Recorder in Stop mode, press the **TIMER** button.

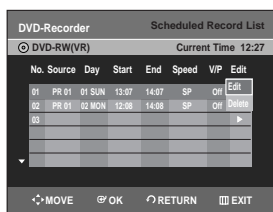


Using the MENU button.

- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Programme**, then press the **OK** or **▶** button.

- 2 Press the **OK** or **▶** button.

- 3 Press the **▲▼** buttons to select the number of the timer recording you want to edit, then press the **OK** or **▶** button.
 - The Edit and Delete items are displayed.



- 4 Press the **▲▼** buttons to select **Edit**, then press the **OK** or **▶** button.
 - The Timer Record Input item is displayed. Edit the items you want to modify. See the “Making a Timer Recording” section for more information on Timer Recording Input items.



- 5 Press the **OK** button to confirm the edited setting.

- 6 Press the **MENU** button after finishing the operation. The menu screen will disappear.

Deleting the Scheduled Record List

Follow these directions to delete an entry from the timer record list.



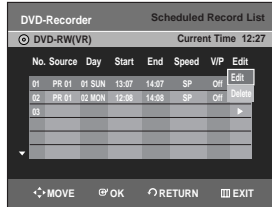
- 1 With the DVD Recorder in Stop mode, press the **TIMER** button.

Using the MENU button.

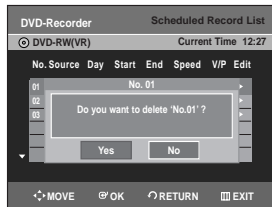
- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Programme**, then press the **OK** or **▶** button.

- 2 Press the **OK** or **▶** button.

- 3** Press the ▲▼ buttons to select the number of the timer recording you want to delete, then press the **OK** or ► button.
- The **Edit** and **Delete** items are displayed.



- 4** Press the ▲▼ buttons to select **Delete**, then press the **OK** or ► button.
- You will be prompted with the delete confirm message such as 'Do you want to delete 'No.01'?'.



- 5** Press the ◀▶ buttons to select **Yes**, then press the **OK** button.
- The selected entry will be deleted from the list.

- 6** Press the **MENU** button after finishing the operation. The menu screen will disappear.

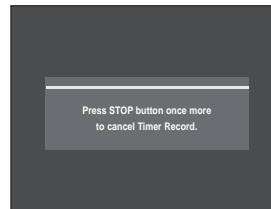
Recording the Standard Timer List

When the start time in the Scheduled record list reaches while the set is in power off, the set will be powered on and start the recording automatically.

- 1** When the scheduled recording is operating, the programme being recorded will not display on TV.
- Press the TV/DVD button if you want to see the programmed being recorded on TV.
 - Press the TV/DVD button again if you don't want to see the programmed being recorded on TV.

To stop Recording

Press the **STOP** button. The message "Press STOP button once more to cancel Timer Record." is displayed.

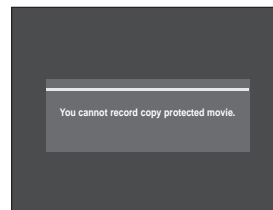


Press the **STOP** buttons once more to stop recording.



NOTE

- If there is not enough disc space or a copy prevention signal is received during recording, recording will stop.



- If there is no free disc space or the disc is not recordable, recording will not operate. (You can record after replacing the disc.)

Playback

This section introduces basic functions of playback and playback by disc type.



Dolby Digital



DTS



Digital Audio



Stereo



PAL broadcast system in U.K, France, Germany, etc.



DivX



MP3

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Before Playing

Read the following information before playing a disc.

Region code (DVD-Video only)



Both the DVD recorder 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 is described on the rear panel of the DVD Recorder.

Disc types that can be played

Disc Types	Disc Logo	Recorded content	Disc Shape	Max. Playing Time
DVD-VIDEO		AUDIO + VIDEO	Single sided(12cm)	240 min
			Double sided(12cm)	480 min
			Single sided(8cm)	80 min
			Double sided(8cm)	160 min
AUDIO-CD		AUDIO	Single sided(12cm)	74 min
			Single sided(8cm)	20 min
DVD-RW		AUDIO + VIDEO	12cm (4.7GB)	1hr (XP: Excellent Quality) 2hr (SP: Standard Quality) 4hr (LP: Long Playback) 8hr or 8hr (EP: Extended)
DVD-R		AUDIO + VIDEO	12cm (4.7GB)	1hr (XP: Excellent Quality) 2hr (SP: Standard Quality) 4hr (LP: Long Playback) 8hr or 8hr (EP: Extended)
CD-R/RW DVD-R/RW		JPEG MP3 MPEG4	-	-



NOTE

- Depending on the disc type, it may take up to one minute to load.

Discs that cannot be played

- DVD-Video with a region number other than "2" or "ALL"
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RW(VR mode) not recorded following the Video Recording Standard
- Unfinalised DVD-R,unfinalised DVD-RW(V mode) recorded on other equipment.
- DVD-ROM/PD/MV-Disc, etc
- Video CD/SVCD/CVD/CD-ROM/CDV/CD-G/CD-I



NOTE

- 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 discs 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 or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
- DVD-RW/-R discs may not be able to play on some DVD Recorders, depending on the player, disc and the condition of the recording.

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 the **OPEN/CLOSE** button to close the disc tray.

- Your DVD Recorder closes the disc tray and plays the disc automatically.
- The DVD Recorder does not play discs automatically after the initial power on.
- When the DVD Recorder is powered on and a disc is in the tray, the DVD Recorder will be activated and wait in stop status.
- Press the **PLAY** button to start playback.
- If you want the DVD Recorder to play automatically when it is powered Off with a disc in the DVD Recorder, power on with the **PLAY** button.

4 Press the **STOP** button to stop playback.



NOTE

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



CAUTION

- Do not move your DVD Recorder 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 malfunction of the DVD Recorder.
- 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.
- You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD RECORDER.

Using the Disc Menu & Title Menu

Some discs contain a dedicated menu system that allow you to select special functions for the title, such as chapters, audio tracks, subtitles, film previews, information on characters, etc.

For DVD-VIDEO discs



- 1 Press the **DISC MENU** button to enter the disc menu of the disc.
 - Move to the setup menu related to the playback operation.
 - You can select the audio languages and the subtitles provided by the disc.

- 2 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 type of discs may not support the title menu function.

For DVD-RW/-R discs



- 1 Press the **TITLE LIST** button to move to the Title List.



- **Title List:** Title List shows a list to help you select a title. Since the title list consists of the information on video that is actually recorded, if one title is deleted, that title cannot be played again.
- **Playlist:** This refers to a unit of playback, which is made by selecting a desired scene in the entire Title List. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original recording will not be deleted. (only VR mode)

Using the Search Functions



Searching through a Chapter or Track



- 1 During playback, press the **SEARCH** (◀▶) button on the remote control.

DVD-VIDEO/ DVD-RW/DVD-R	▶▶ Fast 1 → ▶▶ Fast 2 → ▶▶ Fast 3 → ▶▶ Fast 4 → ▶▶ Fast 5 → ▶▶ Fast 6 → ▶▶ Fast 1
MPEG4	▶▶ Fast 1 → ▶▶ Fast 2 → ▶▶ Fast 3
AUDIO CD (CD-DA)	▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8 → ▶▶ X 2

- You can scan the programme in reverse. To return to normal speed playback, press the **PLAY** button.
- When you press and hold the **SEARCH**(◀▶) button, playback is done at the default speed of Fast 2. If you release the **SEARCH**(◀▶) button, playback is performed at a normal speed.
- The speed marked in this function may be different from the actual playback speed.



- No sound is heard during Scan(Search) mode except Fast 1 mode.
- You cannot also hear during scanning MPEG4 in all mode.
- For CD(CD-DA), you can hear sound during Scan mode.

Skipping Chapters or Tracks

- During playback, you can search quickly through a chapter or track.

1 During playback, press the **SKIP** (⏮ ⏭) button on the remote control.

- If you press the **SKIP** (⏮) button, it moves to the beginning of the chapter or track or marker(DVD-RW(VR mode)). Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or track or marker(DVD-RW(VR mode)).

- If you press the **SKIP** (⏭) button, it moves to the next chapter or track or marker (DVD-RW(VR mode)).

Slow Motion Play



1 In pause mode, press the **SEARCH** (⏮ ⏭) button on the remote control.

- If you press the **SEARCH**(⏮) button,
 - ▶ Slow 1 → ▶ Slow 2 → ▶ Slow 3
- If you press the **SEARCH**(⏭) button,
 - ◀ Slow 1 → ◀ Slow 2 → ◀ Slow 3
- To return to normal speed playback, press the **PLAY** button.

Press and hold the **SEARCH** (⏮ ⏭) button during pause, the disc will play slowly at a Slow 1 speed. If the button is released, the pause operation will resume.



NOTE

- The speed marked in this function may be different from the actual playback speed.
- Slow motion operates only in the forward direction on MPEG 4 discs.

Step Motion Play



1 Press the **STEP**(⏮ ⏭) button on the remote control during playback or pause.

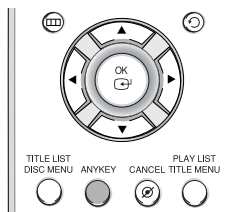
- Each time the button is pressed, a new frame will appear.
 - When **STEP**(⏮) is pressed, the previous frame will be activated.
 - When **STEP**(⏭) is pressed, the next frame will be activated.
- To return to normal speed playback, press the **PLAY** button.



NOTE

- Step motion operates only in the forward direction on MPEG 4 discs.

About ANYKEY



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

Moving to a scene directly using the ANYKEY

- If you want to move to a title, a chapter to find a desired scene.

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



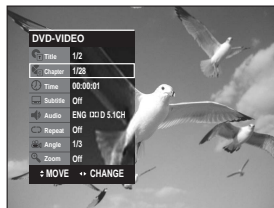
2 Press the **▲▼** buttons to select **Title** or **Chapter**.



3 Press the **◀▶** or number (0~9) buttons to select the desired scene. Press the **OK** button.

- If you want to move to a desired time to help you find a scene.

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



2 Press the **▲▼** buttons to select **Time**.

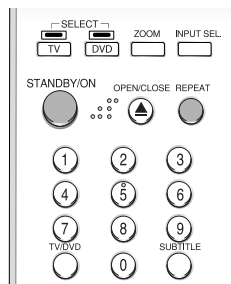


3 Enter the time in the sequence of hours, minutes, seconds using the number buttons, then press the **OK** button.



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

Using the Repeat Function

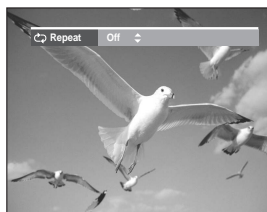


Playing Repeatedly (Repeat Playback)

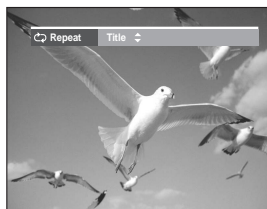


Using the REPEAT button

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



2 Press the **REPEAT** or **▲▼** buttons to select **Title** or **Chapter** you want to play repeatedly. Press the **OK** button.



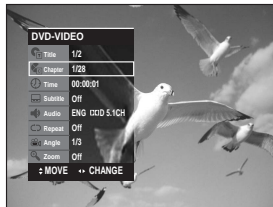
Title : Repeats the title that is playing.
Chapter : Repeats the chapter that is playing.

- To return to normal playback -

3 Press the **REPEAT** buttons to select **Off**, then press the **▲▼** or **REPEAT** button and press **OK** button.
 Press the **CANCEL** button to return to normal playback.

Using the ANYKEY button

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



- 2 Press the **▲▼** buttons to select **Repeat**, then press the **◀▶** buttons to select **Title** or **Chapter** you want to play repeatedly.



- 3 Press the **OK** button. To make the screen disappear, press the **ANYKEY** or **RETURN** button. Repeat play allows you to repeat a title or chapter.



NOTE

- DVD-RW(VR mode), unfinalised DVD-R and unfinalised DVD-RW (Video mode) do not repeat a chapter.

Playing a Certain section Repeatedly(A-B Repeat Playback)



Using the ANYKEY button

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



- 2 Press the **▲▼** buttons to select **Repeat**, then press the **▶** button to select **A-B**.



- 3 Press the **OK** button.

- 4 Press the **OK** button at the point where you want the repeat play to start (A), then press it again at the point where you want the repeat play to stop (B). Repeat playback of the A-B section starts.

- To return to normal playback -

- 5 Select **Off** on the Repeat item or press the **CANCEL** button.



NOTE

- If you set point (B) before five seconds has lapsed, the prohibition mark (⊘) will appear.
- Audio CDs(CD-DA) and MP3 discs do not support the Repeat A-B function.

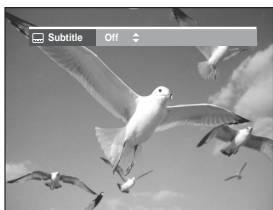
Selecting the Subtitle

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



Using the SUBTITLE button

- 1 Press the **SUBTITLE** button during playback.



- 2 Press the **SUBTITLE** or **▲▼** buttons to select the desired subtitle language. To make the screen disappear, press the **CANCEL** or **RETURN** button.



Using the ANYKEY button

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



- 2 Press the **▲▼** buttons to select **Subtitle**, then press the **◀▶** buttons to select the desired subtitle language.



NOTE

- 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.

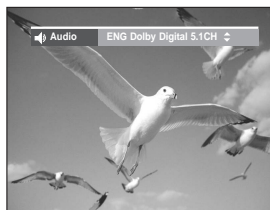
Selecting the Audio language

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



Using the AUDIO button

- 1 Press the **AUDIO** button during playback.



- 2 Press the **AUDIO** or **▲▼** buttons to select the desired audio language.



Using the ANYKEY button

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



- 2 Press the **▲▼** buttons to select **Audio**, then press the **◀▶** buttons to select the desired audio language.



NOTE

- Audio languages may be different depending on the disc type.
- Some discs allow you to select the audio language for the disc menu only.

Changing the Camera Angle

When a DVD-VIDEO contains multiple angles of a particular scene, you can select the Angle function. This is only available during playback. If the disc contains multiple angles, the ANGLE mark appears on the screen.



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



- 2 Press the **▲▼** buttons to select **Angle**, then press the **◀▶** or number buttons to select the desired angle.



NOTE

- This function is disc-dependent, may not work on all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.

Zooming-In



- 1 Press the **ANYKEY** button during playback or pause.



- 2 Press the **▲▼** buttons to select **Zoom**, then press the **OK** button. (Ⓞ) will be displayed.



- 3 Press the **▲▼◀▶** buttons to move to the area you want to enlarge.

- 4 Press the **OK** button. The screen will be enlarged to twice the normal size. If you press the **OK** button again after the screen was enlarged to twice the normal size, the screen size will be enlarged to four times the normal size.

normal size → 2X → 4X → 2X → normal size



NOTE

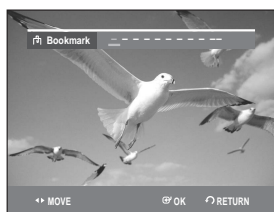
- You can also select Zoom function directly using **ZOOM** button on the remote control.

Using Bookmarks

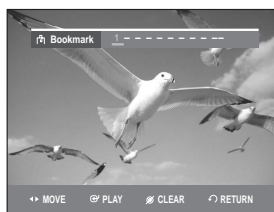
This feature lets you bookmark sections of a DVD-VIDEO or DVD-R/-RW(V mode), so you can quickly find them.



- 1 Press the **MARKER** button during playback.

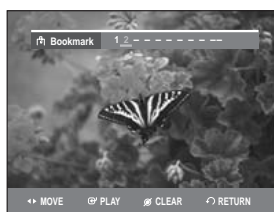


- 2 Press the **OK** button when the desired scene appears. The number 1 is displayed and the scene is memorized.



- 3 Press the **◀▶** button to move to the next position.

- 4 Press the **OK** button when the desired scene appears. The number 2 is displayed and the scene is memorized.



- Repeat above to bookmark other positions.
- You can bookmark up to 10 scenes.



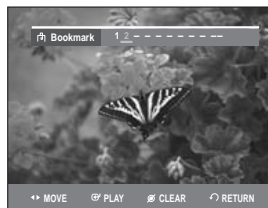
NOTE

- When the disc tray is opened and then closed, bookmarks will disappear.

Playing back a bookmark

- 1 Press the **MARKER** button during playback.

- 2 Press the **◀▶** buttons to select a bookmarked scene.

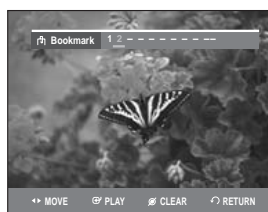


- 3 Press the **OK** or **PLAY** button to start playing from the selected scene.

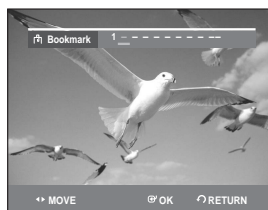
Clearing a bookmark

- 1 Press the **MARKER** button during playback.

- 2 Press the **◀▶** buttons to select a bookmarked scene.



- 3 Press the **CANCEL** button to delete the selected bookmark.

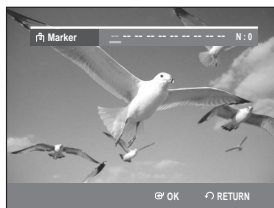


Using Markers



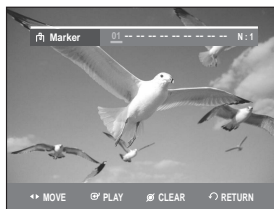
(VR mode)

- 1 Press the **MARKER** button during playback.



- 2 Press the **OK** button when the desired scene appears.

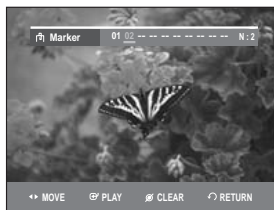
The number 01 is displayed and the scene is memorized.



- 3 Press the **◀▶** button to move to the next position.

- 4 Press the **OK** button when the desired scene appears.

The number 02 is displayed and the scene is memorized.

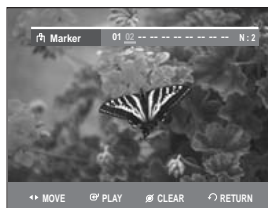


- DVD-RW (VR Mode) discs have the Marker function instead of the Bookmark function. The Marker function allows you to mark up to 99 scenes. Since the scenes may be displayed as many different pages, numbering is necessary. If a disc in use is encoded with Disc Protection, Markers cannot be set or deleted. Only playback is available.

Playing back a Marker

- 1 Press the **MARKER** button during playback.

- 2 Press the **◀▶** buttons to select a bookmarked scene.



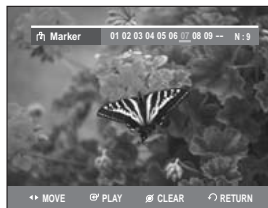
- 3 Press the **OK** or **PLAY** button to start playing from the selected scene.

- If you press the **SKIP** (⊖) button, it moves to the beginning of the marker. Pressing the button once again within 3 seconds returns to the beginning of the previous marker.
- If you press the **SKIP** (⊕) button, it moves to the next marker.

Clearing a Marker

- 1 Press the **MARKER** button during playback.

- 2 Press the **◀▶** buttons to select a bookmarked scene. Press the **CANCEL** button to delete the selected bookmark.



- When a marker is cleared while DVD-RW (VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move ahead by one and the 8th marker becomes the 7th.

Playing an Audio CD/MP3

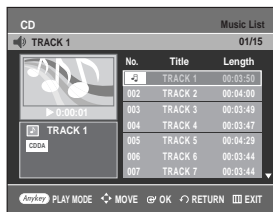
Playing an Audio CD (CD-DA)/MP3

Each disc has a variety of menu functions available.

Playing an Audio CD(CD-DA)

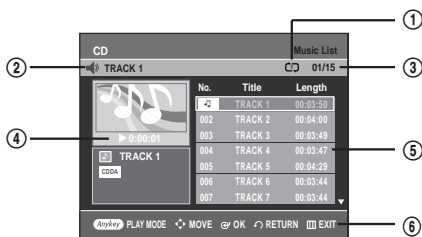


- 1 Insert an audio CD (CD-DA) into the disc tray.
The audio CD menu appears and the tracks (songs) are played automatically.



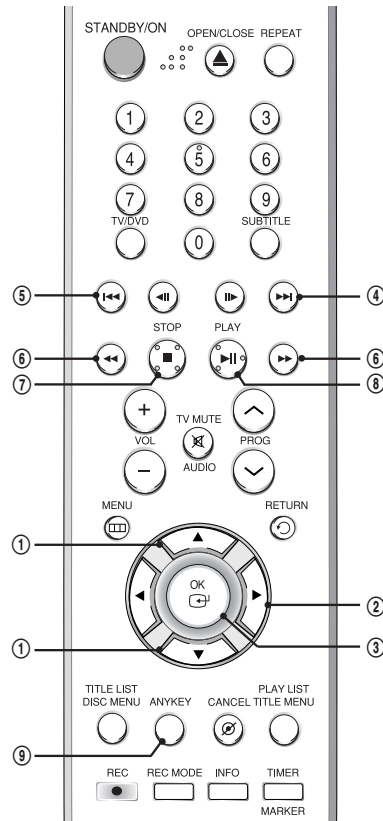
- 2 Press the ▲▼ buttons to select the track you want to hear, then press the OK or ► button.

Audio CD(CD-DA) Screen Elements



1. Play mode icon
2. Current track(song)
3. Displays the current play index and total track number.
4. Shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
5. Displays the track list(song list) and the playing time of each track.
6. Button display.

Buttons on the Remote Control used for Audio CD(CD-DA) playback



1. ▲▼ : Selects a track (song).
2. ► : Plays the selected track (song).
3. OK button: Plays the selected track (song).
4. SKIP(⊖) button: Plays the next track.
5. SKIP(⊕) button: Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD recorder moves to and plays the previous track.
If you press the this button within three seconds after playback starts, the previous track will be played. If you press the this button after three seconds, the current track will be replayed from the beginning.
6. Press the SEARCH(⊖/⊕) button: Fast Play (X2, X4, X8)
7. STOP button: Stops a track(song).
8. PLAY/PAUSE button: Plays a track(song) or pauses playback.
9. ANYKEY button: Selects the sub menu on screen display (Repeat or Play Option).

Playing an MP3 Disc



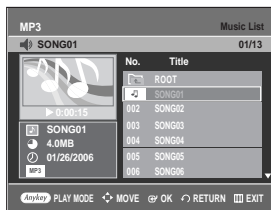
- 1 Insert an MP3 Disc into the disc tray.



- 2 Press the ▲▼ buttons to select **Disc Navigation**, and then press the OK or ► button.



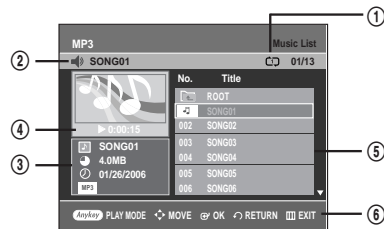
- 3 Press the ▲▼ buttons to select **Music**, then press the OK or ► button.



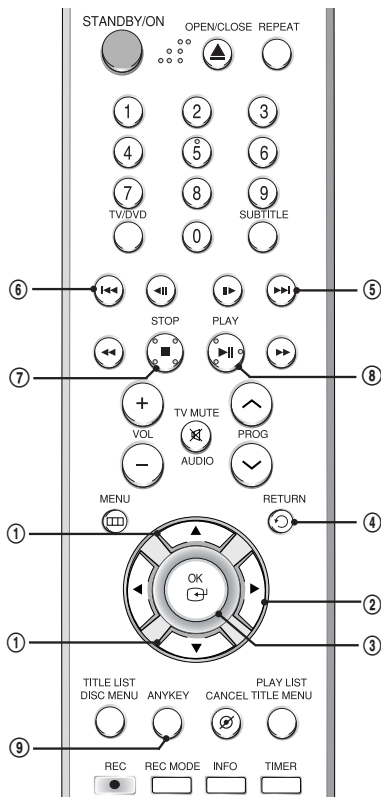
The MP3 menu appears and the tracks(songs) are played automatically.

- 4 Press the ▲▼ buttons to select the track (song) you want to hear, then press the OK or ► button.

MP3 Screen Elements



1. Play mode icon
2. Current track (song)
3. Displays the current track(song) information.
4. Shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
5. Displays the information for the folder and its tracks.
6. Button display.

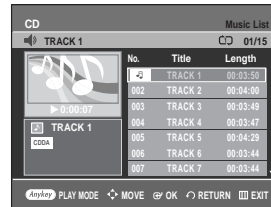


1. ▲▼: Selects a track (song).
2. ►: Plays the selected track (song).
3. OK button: Plays back the selected track (song) or displays the files in the selected folder.
4. RETURN button: Moves to the folder to which the current song belongs.
5. SKIP (⏮) button: Plays the next track.
6. SKIP (⏭) button: Returns to the beginning of the current track when pressed while playing. If pressed again, your DVD recorder moves to and plays the previous track.
If you press the this button within three seconds, the previous track will be played.
If you press the this button after three seconds, the current track will be replayed from the beginning.
7. STOP button: Stops a track(song).
8. PLAY/PAUSE button: Plays a track(song) or pauses playback.
9. ANYKEY button: Selects the sub menu on screen display (Repeat or Play Option).

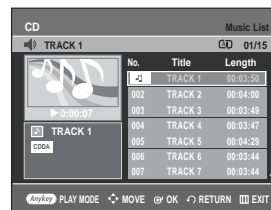


Using the REPEAT button

- 1 Press the **REPEAT** button during playback. The **Track** repeat mode icon (🔁) appears and the selected track is played repeatedly.



- 2 Press the **REPEAT** button once more to play the disc repeatedly. The **Disc** repeat mode icon (🔁) appears and the inserted disc is played repeatedly.
For MP3 disc, the **Folder** repeat mode icon (🔁) appears and all tracks in the current folder are played repeatedly.
Pressing the **REPEAT** button once more changes the mode to the **Disc** repeat mode.



To return to normal playback

- 3 Press the **REPEAT** button repeatedly until the repeat mode icon disappears, or press the **CANCEL** button.



Using the ANYKEY button

- 1 Press the **ANYKEY** button during playback. The **PLAY MODE** window appears.



- 2 Select the desired repeat mode (**Track** or **Disc**) using **◀▶** buttons, and then press the **OK** button.
For MP3 discs, you can select **Track**, **Folder** or **Disc**.

To return to normal playback

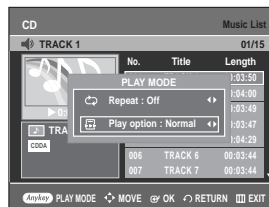
- 3 Select **Off** in the **PLAY MODE** window using the **◀▶** buttons, and then press the **OK** button.

Play Option Mode

The Play Option can be used with an audio CD or MP3 in Stop mode.



- 1 Press the **ANYKEY** button in Stop mode. The **PLAY MODE** window appears.



- 2 Press the **◀▶** buttons to select the desired item (**Normal**, **Random**, **Intro** or **Playlist**) in the Play option, then press the **OK** button.

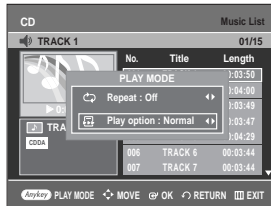
- **Normal:** Tracks on a disc are played in the order in which they were recorded on the disc.
- **Intro:** The first 10 seconds of each track will be played. If you want to listen to the music that you have selected, press the **OK** or **PLAY** button. The play option will be changed to Normal Play. When Intro Play is completed, Normal Play is performed.
- **Playlist:** The Playlist playback option allows you to select the order in which you want tracks to play.
- **Random:** The Random option plays a disc's tracks in random order. After a random list is generated and played completely, another random list is generated and played. Random Play is continued until the play option is changed.

To Programme Tracks

You can register a maximum of 30 tracks in the playlist.

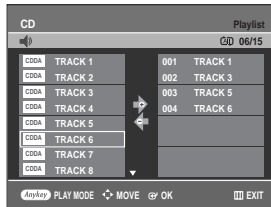


- 1 Press the **ANYKEY** button in Stop mode. The **PLAY MODE** window appears.



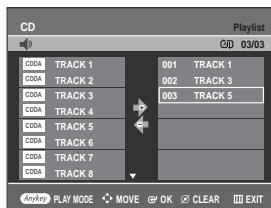
- 2 Press the **◀▶** buttons to select **Playlist** in the Play option.

- 3 Press the **OK** button. The Playlist screen will appear. Press the **▲▼** buttons to select **Tracks** in the order in which you want them to play. Press the **OK** button to add the selected track to the Playlist.



- 4 If you playlisted a wrong track, press the **▶** button, then press the **▲▼** buttons to select the wrong track, then press the **CANCEL** button.

The wrong track will be removed.



- 5 Press the **PLAY** button to playback the playlist.

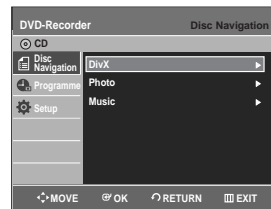
Playing a Picture



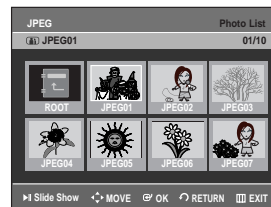
- 1 Insert a JPEG into the disc tray.



- 2 Press the **▲▼** buttons to select **Disc Navigation**, and then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Photo**, and then press the **OK** or **▶** button.



- 4 Press the **▲▼◀▶** buttons to select a picture.

- To see the next 8 pictures, press the **SKIP**(⊕) button.
- To see the previous 8 pictures, press the **SKIP**(⊖) button.

- 5-1** 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 **OK** button.



- 5-2** Press the **OK** 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 **OK** button.



- ⏮ : Returns to the Album screen.
- ▶ : The DVD Recorder enters slide show mode. Before the slide show can begin, the picture interval (Slide show speed) must be set.
- ⌂ : Each time the **OK** button is pressed, the picture rotates 90 degrees clockwise.
- 🔍 : Each time the **OK** button is pressed, the picture is enlarged up to 4X(Four times the normal size). (Normal → Zoom X2 → Zoom X4 → Zoom X2 → Normal)

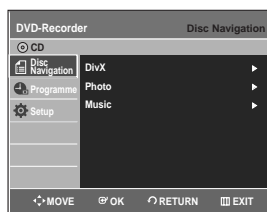
- Press the **ANYKEY** button to display the menu bar.
- Press the **RETURN** button to clear the menu bar.

Playing a MPEG4

MPEG4 File is used to contain the audio and video data. MPEG4 File with following extensions can be played.
- .AVI, .DIVX, .avi, .divx



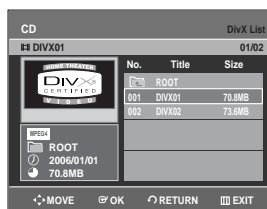
- 1** Insert a MPEG4 Disc into the disc tray.



- 2** Press the ▲▼ buttons to select **Disc Navigation**, and then press the **OK** or ▶ button.



- 3** Press the ▲▼ buttons to select **DivX**, and then press the **OK** or ▶ button.



- 4** Press the ▲▼ buttons to select the avi file (DivX), then press the **OK**, ▶ or **PLAY** button.

- 5** When MPEG4 file is played, you can use following functions. Pressing the **STOP** button once during playback will display the file list, pressing the button again will exit the menu screen.

MPEG4 Function Description

Function	Description
Skip (⏮ or ⏭)	During playback, press the SKIP (⏮ or ⏭) button, it moves forward or backward 5 minutes.
Search (⏮ or ⏭)	During playback, press the SEARCH (⏮ or ⏭) button and press again to search at a faster speed. (Fast 1, Fast 2, Fast 3)
Slow Motion Play	In pause or step mode, press the SEARCH (⏮) button on the remote control. (Slow 1, Slow 2, Slow 3)
Step Motion Play	Press the STEP (⏮) button on the remote control during playback or pause.



NOTE

- This DVD Recorder can play the following video compression formats.
 - MPEG4 Codec format : DivX 3.11 DivX 4.x DivX 5.x DivX-Pro Xvid
 - Motion Compensation : QPEL, GMC
 - Audio format : "MP3", "MPEG1 Audio Layer2", "LPCM", "AC3", "DTS", "MS ADPCM"
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt, .ass (The subtitle file should have exactly the same name to corresponding MPEG4 file name)
- Some MPEG4 files created on a personal computer may not be play back. That is why Codec Type, Version and Higher resolution over specification is not supported.

Playing the Title List



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



Using the TITLE LIST button

- Press the **TITLE LIST** button. The Title List screen is displayed.



- Press the **▲▼** buttons to select an entry you want to play from Title List, then press the **PLAY** button. The selected entry (title) will be played back.

- To stop title play, press the **STOP** button. To return the title list screen, press the **TITLE LIST** button.

Using the MENU button

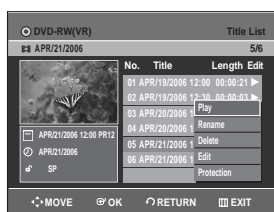
- Press the **MENU** button.



- 2** Press the **▲▼** buttons to select **Title List**, then press the **OK** or **▶** button twice.
The Title List screen is displayed.

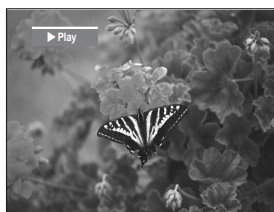


- 3** Press the **▲▼** buttons to select an entry you want to play from Title List, then press the **OK** or **▶** button.
The Edit menu is displayed on the right.

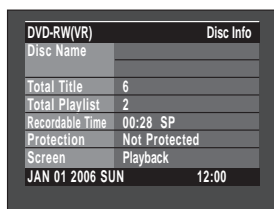


(Rename, Delete, Edit, Protection : See pages 69-72)

- 4** Press the **▲▼** buttons to select **Play** to play the title list, then press the **OK** button.
The selected entry (title) will be played back.



To view the current status of the disc and progress of playback : Press the **INFO** button, the information about the disc will appear.



Press the **INFO** button once again. Then you can check the information about the title under playback.

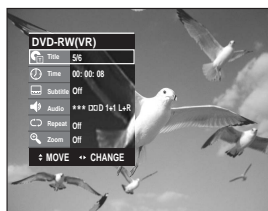


- 5** To stop title play, press the **STOP** button.
To return the title list screen, press the **TITLE LIST** button.



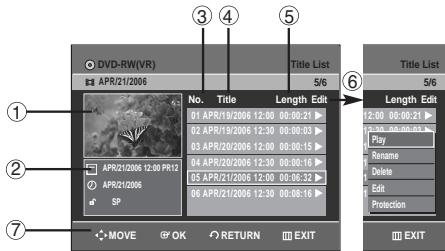
NOTE

- You can also play a recorded programme by pressing the **ANYKEY** button during playback.



- Press the **▲▼** buttons to select Title.
- Press the **◀▶** buttons to select to play the title list, then press the **OK** button.

Title List Screen Elements



1. Playback screen for recorded entries.
2. Information window for the selected entry:
Title name, recording date, lock status, recording mode
3. Recorded entry No.
4. Recorded entry title
5. Recording length (i.e., the playing time)
6. Title list edit items
Play: Plays the selected entry.
Rename: Renames the title of a selected entry.
Delete: Deletes the selected entry from the list.
Edit: Deletes a section of titles.
Protection: Locks or unlocks the selected entry.
7. Button display.



NOTE

- This may depend on the the disc type.
- DVD-R/DVD-RW(Video) discs have limited editing function.

Editing

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

Basic Editing (Title List).....	69
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Disc Manager	81

- **Title List**

A title is a section of recorded video and audio. Title List shows a list to help you select a title. Since the title list consists of the information on stream that is actually recorded, if one title is deleted, that title cannot be played again.

- **Playlist**

This refers to a unit of playback, which is made by selecting a desired scene in the entire Title List. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original stream will not be deleted.

Recording or editing might not be completed if an error, such as a sudden power failure occurs.

Please be aware that a material that has been damaged is unable to be retrieved to its original content.

Basic Editing (Title List)

Renaming(Labeling) a Title

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



Using the TITLE LIST button

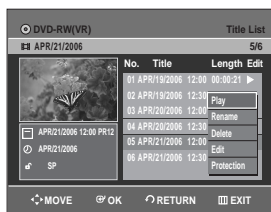
- 1 Press the **TITLE LIST** button.
The Title List screen is displayed

Using the MENU button

- Press the **MENU** button.
- Press the **▲▼** buttons to select **Title List**, then press the **OK** or **▶** button twice.



- 2 Press the **▲▼** buttons to select an entry you want to rename from the **Title List**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Rename**, then press the **OK** button.
The Rename screen is displayed.

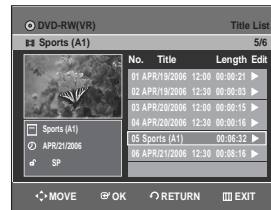


- 4 Press the **▲▼◀▶** buttons to select the desired characters, then press the **OK** button.



- **Back Space:** Deletes the character before the cursor.
- **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.
- **Save:** Registers the character inputs.

- 5 Press the **▲▼◀▶** buttons to select **Save**, then press the **OK** button.
The changed title name is displayed on the title item of the selected entry.



Locking(Protecting) a Title

Follow these instructions to lock an entry to protect it from accidental deletion.

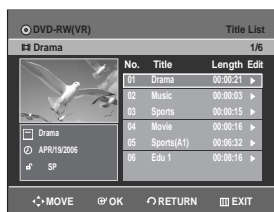


Using the TITLE LIST button

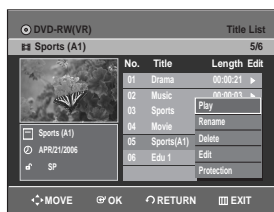
- 1 Press the **TITLE LIST** button.
The Title List screen is displayed

Using the MENU button

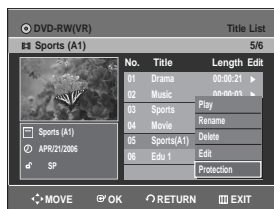
- Press the **MENU** button.
- Press the **▲▼** buttons to select **Title List**, then press the **OK** or **▶** button twice.



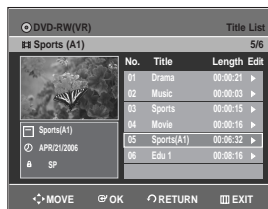
- 2 Press the **▲▼** buttons to select an entry you want to protect in the **Title List**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Protection**, then press the **OK** or **▶** button.



- 4 Press the **◀▶** buttons to select **On**, then press the **OK** button. The key icon on the information window for the selected entry changes to the locked status. (🔒→🔒)



Deleting a Title

Follow these instructions to delete an entry from the Title List.

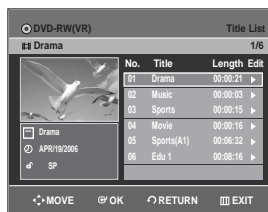


Using the TITLE LIST button

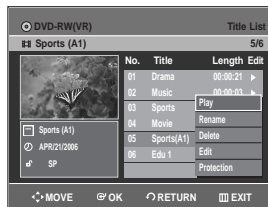
- 1 Press the **TITLE LIST** button.
The Title List screen is displayed

Using the MENU button

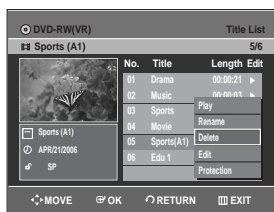
- Press the **MENU** button.
- Press the **▲▼** buttons to select **Title List**, then press the **OK** or **▶** button twice.



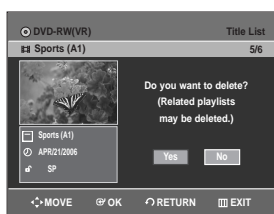
- 2 Press the **▲▼** buttons to select an entry you want to delete in the Title List, then press the **OK** or **▶** button.



- 3 Press the ▲▼ buttons to select **Delete**, then press the **OK** or ► button.



You will be prompted with a confirmation message.
DVD-RW(VR mode): Since Playlist is present, the message 'Do you want to delete? (Related playlists may be deleted.)' is displayed.



DVD-RW(Video mode), DVD-R: Since Playlist is not present, the message 'Do you want to delete?' is displayed.

- The message may depend on the type of disc.

- 4 Press the ◀▶ buttons to select **Yes**, then press the **OK** button.



NOTE

- You cannot delete a protected entry. If you want to delete a protected entry, select "Off" in the Title Protection menu. (See page 70)
- When the Disc Protection has been set to Protected, you cannot delete titles. (See page 82)
- Once an entry is deleted from the Title List it cannot be recovered.
- Once DVD-R, DVD-RW is finalised, it cannot be deleted.
- With DVD-R, titles are only deleted from the menu however, the Title remains physically on the disc.

Deleting a Section of a Title

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



(VR mode)



Using the TITLE LIST button

- 1 Press the **TITLE LIST** button.
The Title List screen is displayed

Using the MENU button

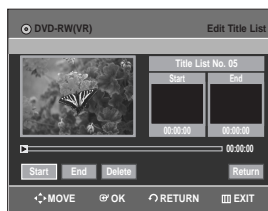
- Press the **MENU** button.
- Press the ▲▼ buttons to select **Title List**, then press the **OK** or ► button twice.



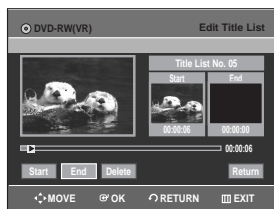
- 2 Press the ▲▼ buttons to select an entry you want to edit from the Title List, then press the **OK** or ► button.



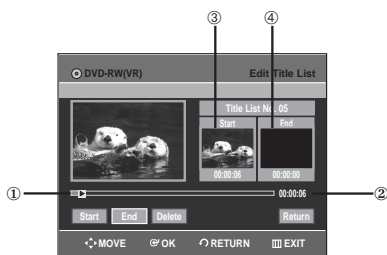
- 3 Press the ▲▼ buttons to select **Edit**, then press the **OK** or ► button.
The Edit Title List screen is display



- 4** Press the **OK** button at the starting point.
The image and starting point time are displayed in the section deletion starting point window.



Edit Title List Screen Elements

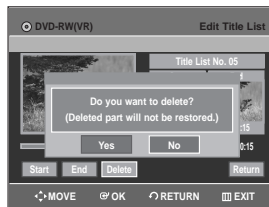


1. Playback bar
2. Playtime
3. Section deletion starting point window and time
 - Select the start and end points of the section you want to delete using the playback related buttons.
 - Playback related buttons: (◀, ▶, ⏪, ⏩, ⏸).

- 5** Press the **OK** button at the end point.
The image and end point time are displayed in the Section deletion ending point window.



- 6** Press the **OK** button at the **Delete**.
The message "Do you want to delete? (Deleted part will not be restored.)" is displayed.



- 7** Press **◀▶** buttons to select **Yes**, then press the **OK** button.
The selected section has been deleted.
To return to the Title List screen, press the **◀▶** buttons to select **Return**.



NOTE

- The length of the section to be deleted must be at least 5 seconds long.
- If the length of the section to be deleted is less than 5 seconds, you will be prompted with the message "The range is too short."
- If the end time precedes the starting point, you will be prompted with the message "End point cannot be marked earlier than start point".
- The section cannot be deleted when it includes a still picture.
- Press the **MENU** button after the operation has finished. The Edit Title List screen will disappear.

Advanced Editing (Playlist)

Creating a Playlist

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



(VR mode)

1 With the DVD Recorder in Stop mode, press the **MENU** button.

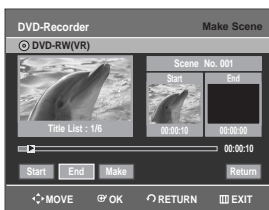
2 Press the **▲▼** buttons to select **Playlist**, then press the **OK** or **▶** button.



3 Press the **▲▼** buttons to select **New Playlist**, then press the **OK** or **▶** button. The Make Scene screen is displayed.



4 Press the **OK** button at the start point.



- The image and time at the start point are displayed on the Start window.
- The yellow-coloured selection bar moves to the **End** item.
- Select the starting point of the section from which you want to create a new scene using the playback related buttons (◀, ⏪, ⏩, ▶, ⏹).

5 Press the **OK** button at the end point.



- The image and end point time are displayed in the End window.
- The yellow-coloured selection bar moves to the **Make** item.

- To make a new playlist -

6 Press the **OK** button at the Make item. A new Scene will be added to the current Playlist. A new Make Scene screen is displayed.

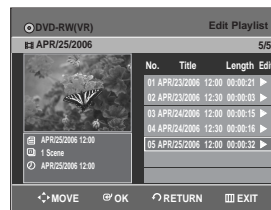


NOTE

- You can check and see all the scenes on Edit Playlist screen.
- Repeat steps 1-6 if you want to make a new playlist.
- Repeat steps 4-6 if you want to make scenes of the playlist.

- To return to Edit Playlist menu -

7 Press the **◀▶** buttons to select **Return**, then press the **OK** button. The Edit Playlist screen is displayed.



8 Press the **MENU** or **PLAY LIST** button after the operation has finished. The Edit Playlist screen will disappear.



NOTE

- You can create up to 99 playlist entries.
- Depending on the kind of disc, the displayed screen may have a slight difference.

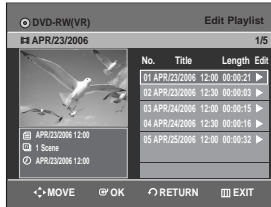
Playing Entries in the Playlist

Follow these instructions to play the playlist entries.



(VR mode)

- 1 With the DVD Recorder in Stop mode, press the **PLAY LIST** button. The Edit Playlist screen is displayed.

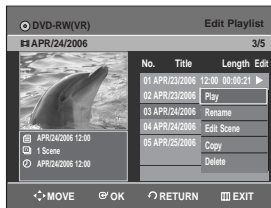


Using the MENU button

- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Playlist**, then press the **OK** or **▶** button.
- Press the **▲▼** buttons to select **Edit Playlist**, then press the **OK** or **▶** button.



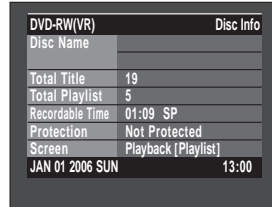
- 2 Press the **▲▼** buttons to select the title you want to edit from the Playlist, then press the **OK** or **▶** button. The Edit Playlist menu is displayed : Play, Rename, Edit Scene, Copy, Delete.



- 3 Press the **▲▼** buttons to select **Play**, then press the **OK** button.



- To view the current status of the disc and progress of playback : Press the **INFO** button, and the information about the disc will appear.



- Press the **INFO** button once again. Then you can check the information about the playlist currently playing back.



- The screen returns to the Edit Playlist screen when the playback has finished.

- 4 Press the **STOP** button to stop playing. The screen returns to the Edit Playlist screen.

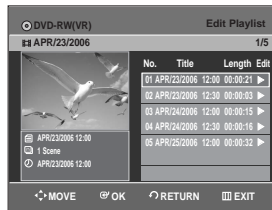
1 Renaming a Playlist Entry

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



(VR mode)

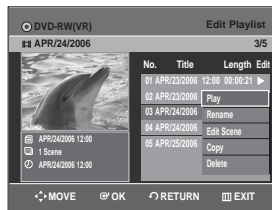
- 1 With the DVD Recorder in Stop mode, press the **PLAY LIST** button. The Edit Playlist screen is displayed.



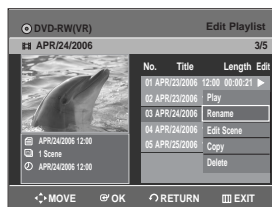
Using the MENU button

- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Playlist**, then press the **OK** or **▶** button.
- Press the **▲▼** buttons to select **Edit Playlist**, then press the **OK** or **▶** button.

- 2 Press the **▲▼** buttons to select the title you want to edit from the Playlist, then press the **OK** or **▶** button. The Edit Playlist menu is displayed : Play, Rename, Edit Scene, Copy, Delete



- 3 Press the **▲▼** buttons to select **Rename**, then press the **OK** button. The Rename screen is displayed.

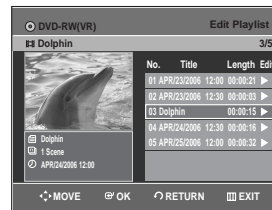


- 4 Enter the desired characters using the **▲▼◀▶** buttons.



- This function is the same as the Rename function in renaming the title list. (See page 69.)
- The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the **INFO** button twice.

- 5 Press the **▲▼◀▶** buttons to select **Save**, then press the **OK** button. The changed title is displayed in the title field of the selected playlist entry.



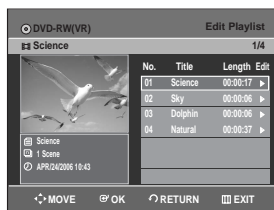
Editing a Scene for the Playlist

Follow these instructions to edit scenes for a playlist.



(VR mode)

- 1 With the DVD Recorder in Stop mode, press the **PLAY LIST** button. The Edit Playlist screen is displayed.

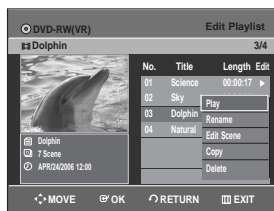


Using the MENU button

- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Playlist**, then press the **OK** or **▶** button.
- Press the **▲▼** buttons to select **Edit Playlist**, then press the **OK** or **▶** button.

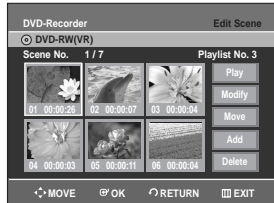
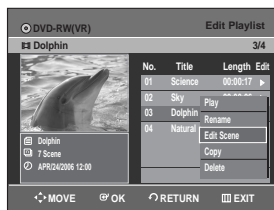
- 2 Press the **▲▼** buttons to select the title you want to edit from the Playlist, then press the **OK** or **▶** button.

The Edit Playlist menu is displayed : Play, Rename, Edit Scene, Copy, Delete



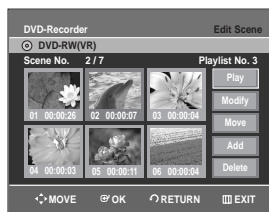
- 3 Press the **▲▼** buttons to select **Edit Scene**, then press the **OK** button.

The Edit Scene screen is displayed.

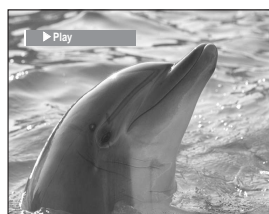


Playing a Selected Scene

- 4 Press the **▲▼◀▶** buttons to select the scene you want to play, then press the **OK** button. The playlist entry to be played is selected.



- 5 Press the **OK** button. The selected scene is played.

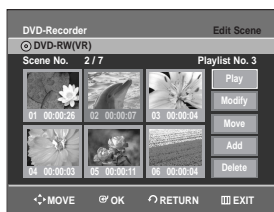


- To stop scene play, press the **STOP** button.

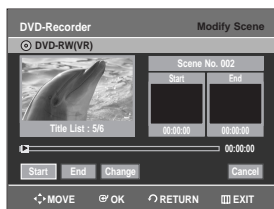
Modifying a Scene (Replacing a Scene)

To setup, follow steps 1 to 3 in page 76.

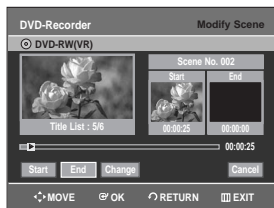
- Press the **▲▼◀▶** buttons to select the scene you want to modify, then press the **OK** button.



- Press the **▲▼** buttons to select **Modify**, then press the **OK** button. The Modify Scene screen is displayed.

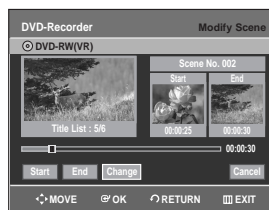


- Press the **OK** button at the start point of the scene.



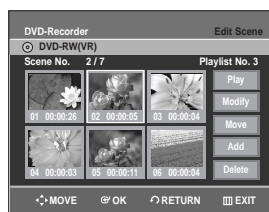
- The image and starting point time are displayed on the Start window.
- Select the starting or ending point of the section you want to modify using the playback related buttons (⏪, ⏩, ⏴, ⏵, ⏶, ⏷, ⏸, ⏹).

- Press the **OK** button at the end point of the scene.



- The image and ending point time are displayed in the End window.

- Press the **◀▶** buttons to select **Change**, then press the **OK** button.

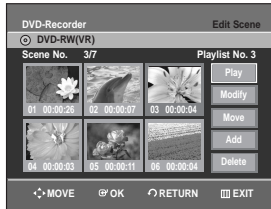


- The scene you want to modify is changed with the selected section.

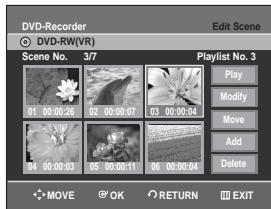
Moving a Scene (Changing the Position of a Scene)

To setup, follow steps 1 to 3 in page 76.

- Press the **▲▼◀▶** buttons to select the scene you want to move (change the position), then press the **OK** button.

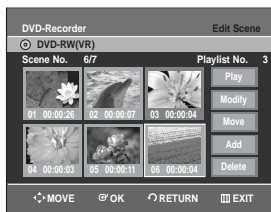


- Press the **▲▼** buttons to select **Move**, then press the **OK** button.

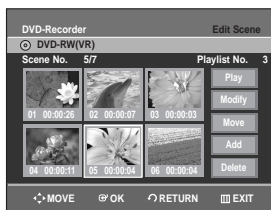


- A yellow selection window is displayed on the scene to be moved.

- Press the **▲▼◀▶** buttons to select the position to which you want to move the selected scene, then press the **OK** button.



- The selected scene is moved to the selected position.



NOTE

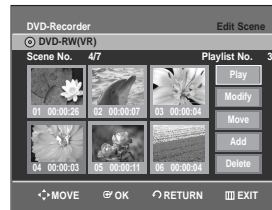
- You cannot move the selected scene to the position of the next scene, because the selected scene should be inserted before that position, which requires no action.
- Depending on the kind of disc, the displayed screen may have a slight difference.

Adding a Scene

To setup, follow steps 1 to 3 in page 76.

- Press the **▲▼◀▶** buttons to select the scene that will have a new scene inserted before it, then press the **OK** button.

A yellow selection window is displayed on the scene to be added as the new scene.



- Press the **▲▼** buttons to select **Add**, then press the **OK** button.

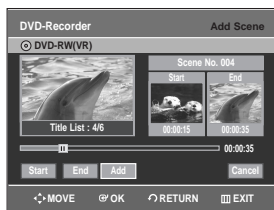


- Press the **OK** button at the starting point of the scene.



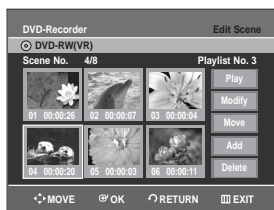
- The image and starting point time are displayed in the Start window.
- Select the end point of the section where you want to add the new scene using the playback related buttons (**◀**, **⏪**, **⏩**, **▶**, **⏹**).

- 7 Press the **OK** button at the end point of the scene.



- The image and time of the end point are displayed in the End window.
- To cancel, press the ◀▶ buttons to select cancel, then press the **OK** button.

- 8 Press the ◀▶ buttons to select **Add**, then press the **OK** button.

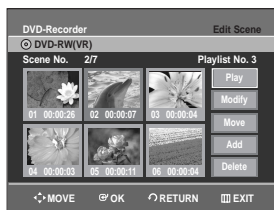


- The section you want to add is inserted prior to the scene selected in step 4.

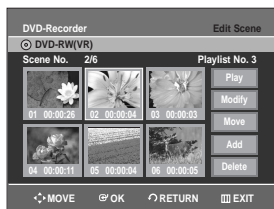
Deleting a Scene

To setup, follow steps 1 to 3 in page 76.

- 4 Press the ▲▼◀▶ buttons to select the scene you want to delete, then press the **OK** button.



- 5 Press the ▲▼ buttons to select **Delete**, then press the **OK** button.

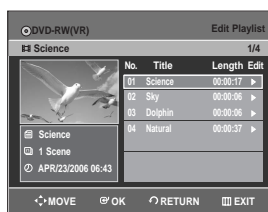


Copying a Playlist Entry to the Playlist



Using the **PLAY LIST** button

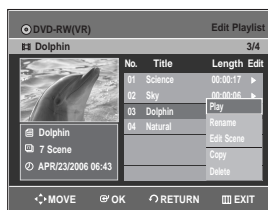
- 1 With the DVD Recorder in Stop mode, press the **PLAY LIST** button. The Edit Playlist screen is displayed.



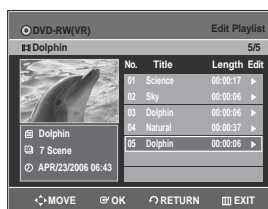
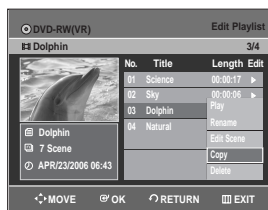
Using the **MENU** button

- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Playlist**, then press the **OK** or ▶ button.
- Press the ▲▼ buttons to select **Edit Playlist**, then press the **OK** or ▶ button.

- 2 Press the ▲▼ buttons to select the title you want to copy to the Playlist, then press the **OK** or ▶ button. The Edit Playlist menu is displayed :Play, Rename, Edit Scene, Copy, Delete



- 3 Press the ▲▼ buttons to select **Copy**, then press the **OK** button. Playlist that has been selected will be copied.





NOTE

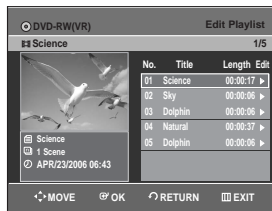
- You can create up to 999 scenes on one disc. In some cases, this may be different from the actual numbers.
- Press the **MENU** button after the operation has finished. The Edit Playlist screen will disappear.

Deleting a Playlist Entry from the Playlist



Using the PLAYLIST button

- 1 With the DVD Recorder in Stop mode, press the **PLAY LIST** button. The Edit Playlist screen is displayed.

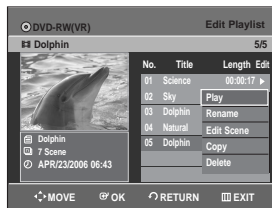


Using the MENU button

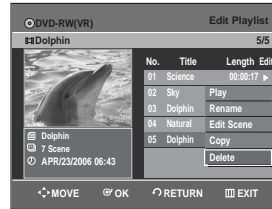
- With the DVD Recorder in Stop mode, press the **MENU** button.
- Press the **▲▼** buttons to select **Playlist**, then press the **OK** or **▶** button.
- Press the **▲▼** buttons to select **Edit Playlist**, then press the **OK** or **▶** button.

- 2 Press the **▲▼** buttons to select the title you want to delete from the Playlist, then press the **OK** or **▶** button.

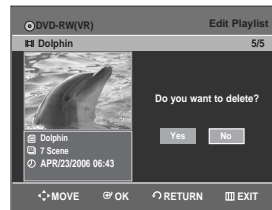
The Edit Playlist menu is displayed : Play, Rename, Edit Scene, Copy, Delete



- 3 Press the **▲▼** buttons to select **Delete**, then press the **OK** button.

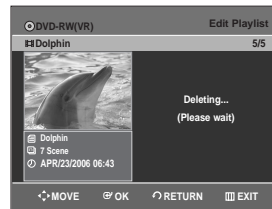


- You will be prompted with the delete confirmation message "Do you want to delete?".



- 4 Press the **◀▶** buttons to select **Yes**, then press the **OK** button.

It automatically returned to the Edit Playlist screen after the delete operation has finished.



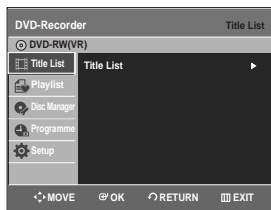
Disc Manager

Editing the Disc Name

Follow these instructions to give a name to a disc.



- 1 With the DVD Recorder in Stop mode, press the **MENU** button.



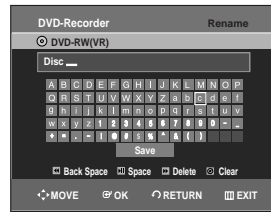
- 2 Press the **▲▼** buttons to select **Disc Manager**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Disc Name**, then press the **OK** or **▶** button. The Edit Name screen is displayed.



- 4 Enter the desired characters using the **▲▼◀▶** buttons.



- This function is the same as the Rename function in renaming the title list. (See page 69.)
- The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the **INFO** button.

- 5 Press the **▲▼◀▶** buttons to select **Save**, then press the **OK** button. A disc name is given to the disc.



NOTE

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

Disc Protection

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



- 1 With the DVD Recorder in Stop mode, press the **MENU** button.



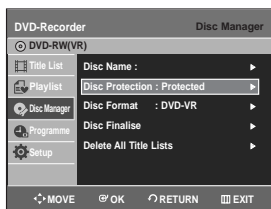
- 2 Press the **▲▼** buttons to select **Disc Manager**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Disc Protection**, then press the **OK** or **▶** button.



- 4 Press the **▲▼** button to select **Protected**, then Press the **OK** button.



Formatting a Disc

Use these instructions to format a disc. The disc protect should also be cleared.



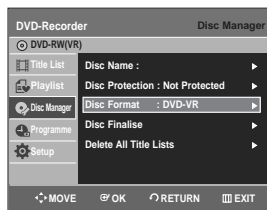
- 1 With the DVD Recorder in Stop mode, press the **MENU** button.



- 2 Press the **▲▼** buttons to select **Disc Manager**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** buttons to select **Disc Format**, then press the **OK** or **▶** button.

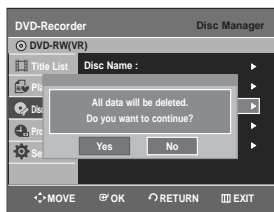


DVD-RW

- You will be prompted with the confirmation message “Choose the recording format for DVD-RW.”.



- 4 Press the ◀▶ buttons to select desired mode, then press the OK button.
 - You will be prompted again with the message "All data will be deleted. Do you want to continue?".



- 5 Press the ◀▶ buttons to select Yes, then press the OK button. The disc is formatted.

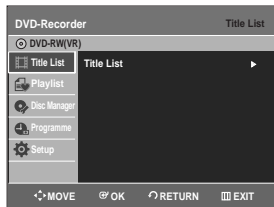
	DVD-VR	DVD-V
DISC	DVD-RW	DVD-RW DVD-R

DVD-VR and DVD-V are defined according to their recording format.

Delete All Title Lists



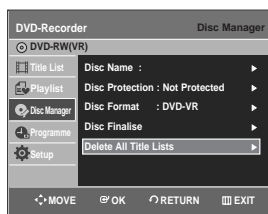
- 1 With the DVD Recorder in Stop mode, press the MENU button.



- 2 Press the ▲▼ buttons to select Disc Manager, then press the OK or ▶ button.



- 3 Press the ▲▼ button to select Delete All Title Lists, then press the OK or ▶ button.



- You will be prompted with the confirmation message "Do you want to delete all title lists?".



- When Protected Entry exists: The Delete All Title List 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 entry, disable Protect for it on the Lock item.

- 4 Press the ◀▶ buttons to select Yes, then press the OK button. All title lists are deleted.

Finalising a disc

After you record titles onto a DVD-RW/DVD-R disc with your DVD recorder, it needs to be finalised before it can be played back on external devices.



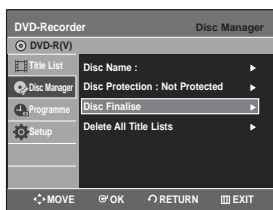
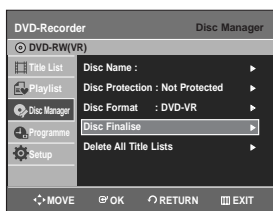
- 1 With the DVD Recorder in Stop mode, press the **MENU** button.



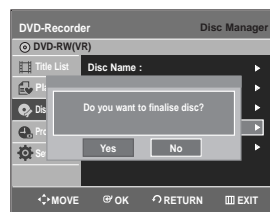
- 2 Press the **▲▼** buttons to select **Disc Manager**, then press the **OK** or **▶** button.



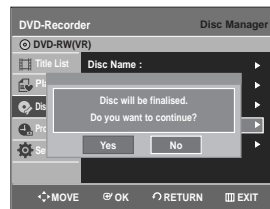
- 3 Press the **▲▼** button to select **Disc Finalise**, then press the **OK** or **▶** button.



You will be prompted with the message “Do you want to finalise disc?”.



If you select Yes, you will be prompted again with the message “Disc will be finalised. Do you want to continue?”.



- 4 Press the **◀▶** buttons to select **Yes**, then press the **OK** button.
The disc is finalised.



NOTE

- Once a disc is finalised, you cannot delete entries from the record list.
- After being finalised, the DVD-R/DVD-RW(video mode) operates in the same manner as a DVD-Video.
- Depending on the disc type, the displayed screen may be different.
- Finalising 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 finalise process.

Unfinalising a disc (V/VR mode)



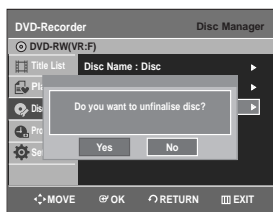
- 1 With the DVD Recorder in Stop mode, press the **MENU** button.



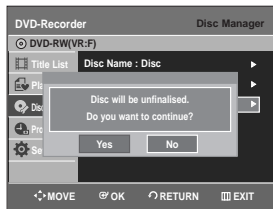
- 2 Press the **▲▼** buttons to select **Disc Manager**, then press the **OK** or **▶** button.



- 3 Press the **▲▼** button to select **Disc Unfinalise**, then press the **OK** or **▶** button. You will be prompted with the message "Do you want to unfinalise disc?".



If you select **Yes**, you will be prompted again with the message "Disc will be unfinalised. Do you want to continue?".



- 4 Press the **◀▶** buttons to select **Yes**, then press the **OK** button. The disc is unfinalised.



NOTE

- A DVD-RW can be finalised or unfinalised in Video mode.

	Finalise	Unfinalise
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

- A DVD-RW can be finalised or unfinalised in VR mode.

	Finalise	Unfinalise
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

Additional Information

Troubleshooting

If your DVD Recorder malfunctions, go through the checkpoints below before contacting a Samsung authorised service centre.

Power

The input is displayed for a while when the power is turned on.



Checkpoint 1 ▶ The DVD recorder requires some time to initialize and the input will be displayed for approx. 10 seconds after it is turned on.

Recording

Cannot record TV programmes.



Checkpoint 1 ▶ Check whether the power cord is securely plugged into the power outlet.

Checkpoint 2 ▶ Did you set the DVD recorder channel settings correctly?

Checkpoint 3 ▶ Check the free space on your DVD-RW/DVD-R discs.

I pressed the REC button but there is no response.



Checkpoint 1 ▶ Recording is possible for DVD-RW/DVD-R discs only. If a programme is copy protected, it cannot be recorded.

Troubleshooting	86
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Playback

Cannot play the disc.



- Checkpoint 1** Check whether the disc is inserted correctly with the label facing up.
- Checkpoint 2** Check the regional code of the DVD disc.
- Checkpoint 3** This DVD recorder cannot play some types of discs. (See pages 5, 49.)

The angle operation does not work while playing a DVD disc.



- Checkpoint 1** The angle operation is available only when the disc contains images captured from different angles.

⊘ icon appears on the screen.



- Checkpoint 1** You cannot use this operation or function due to one of the following reasons:
 - (1) Your DVD disc restricts it.
 - (2) Your DVD disc does not support this feature (for example: angles)
 - (3) The feature is not available at the moment.
 - (4) You've requested a title, chapter, or scan time that is out of range.

The selected audio and/or subtitle language is not played.



- Checkpoint 1** Audio and subtitle languages are disc-specific. Only the sound and subtitle languages contained on the DVD disc are available and displayed in the disc menu.

Play mode settings are different from the settings configured in the Settings menu.



- Checkpoint 1** The disc does not support all selected functions. In this case, some settings configured in the settings menu may not work properly.

Cannot change the aspect ratio.



- Checkpoint 1** The aspect ratio is fixed for DVD discs. (See page 36)

Video

The disc revolves, but no image or bad quality images are displayed.



- Checkpoint 1** ▶ Be sure that the Video Setting is properly set. (See pages 34-36)
- Checkpoint 2** ▶ Check whether there is damage to or any foreign material on your disc.
- Checkpoint 3** ▶ Some low quality discs may not play properly.
- Checkpoint 4** ▶ If scenes change from dark to bright suddenly, the screen may shake vertically temporarily, but this is not a fault.

Sound

No sound.



- Checkpoint 1** ▶ Are you watching a programme in slow or skip mode?
If you are playing a programme at a speed other than normal or fast 1 speed, sound will not be heard.
- Checkpoint 2** ▶ Check the connections and settings. (See pages 21-22, 32-33)
- Checkpoint 3** ▶ Check whether the disc is damaged. Clean the disc, if necessary.
- Checkpoint 4** ▶ Check whether the disc is inserted correctly with the label facing up.

No audio output.



- Checkpoint 1** ▶ Check whether you have selected the correct digital output options in the Audio Output Options menu. (See page 33.)

Timer Recording

Timer lamp flickers.



- Checkpoint 1** ▶ Check there is enough space in the disc for recording.
- Checkpoint 2** ▶ Check whether the current disc is recordable or not. Make sure to check before the start time of recording.

Timer recording does not work properly.



- Checkpoint 1** ▶ Re-check the recording time and the end time settings again.
- Checkpoint 2** ▶ Recording will be cancelled if the power is interrupted due to a power failure or another similar reason while recording.

Remote Control Unit

The remote control doesn't work.



- Checkpoint 1** ▶ Point the remote control at the remote control sensor on your DVD recorder. Allow for proper distance. Remove obstacles between your DVD recorder and the remote control.
- Checkpoint 2** ▶ Check whether the batteries are empty.
- Checkpoint 3** ▶ Check for the TV/DVD selection button.

Other problems.



- Checkpoint 1** ▶ Read the table of contents and then find and read the section describing your problem, follow the instructions given.
- Checkpoint 2** ▶ Turn your DVD recorder off and on.
- Checkpoint 3** ▶ If the problem still persists, contact a nearby Samsung service centre.

Other

I forgot my password for parental supervision.



- Checkpoint 1** ▶ Press and hold down the PROG (∧∨) buttons on the front panel of the DVD Recorder simultaneously for more than 5 seconds with no disc in the DVD Recorder. All settings including the password will revert to the factory settings. Do not use this unless absolutely necessary. (Note that this function is possible only when no disc is inserted.)

Is it possible to change a subtitle and an audio signal on a recorded disc?



- Checkpoint 1** ▶ A recorded disc is played with only the subtitle and the audio signal which were selected during recording.

Specifications



General	Power requirements		AC 220-240V, 50Hz
	Power consumption		21 Watts
	Weight		2,6 kg
	Dimensions		430mm(W) x 240mm(D) x 49mm(H)
	Operating temp.		+5°C to +35°C
	Other conditions		Keep level when operating. Less than 75% operating humidity
Input	Video		Composite Video : 1,0 V p-p at 75Ω load, sync negative
	Audio		Max.Audio Input Level : 2Vrms
	DV Input (DVD-R130, R131 only)		IEEE 1394(4p) compatible jack
	Receiveable Channels		PAL B/G, D/K, I
	Scart Jack	AV2 (Scart Ext)	Video : Composite, RGB Audio: analogue
Output	Audio		Analogue output jacks x 2
			Optical/Coaxial digital audio output
	Video		Composite Video : Video output jack x 1
			S-Video output x 1 (Y:1,0Vp-p, C:0,286Vp-p at 75Ω load)
			Component output x 1 (Y: 1,0Vp-p, Pb: 0,70Vp-p, Pr: 0,70Vp-p at 75Ω load)
Scart Jack	AV1 (Scart TV)	Video : Composite, RGB Audio: analogue	
Recording	Picture Compression format		MPEG-II
	Audio Compression format		Dolby Digital 2ch/256Kbps, MPEG-II
	Recording Quality		XP (about 8 Mbps), SP (about 4 Mbps), LP (about 2 Mbps),
			EP (about 1,2 Mbps or about 0,8 Mbps)
Audio Frequency Response		20 Hz ~ 20 kHz	

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

Disc Type	DVD	AUDIO CD(CD-DA)
Analogue Audio Output	48 / 96kHz	44,1kHz
Digital Audio Output	48kHz	44,1kHz



ΕΛΛΑΣ (GREECE)

Αγαπητέ πελάτη,

Σας ευχαριστούμε για την εμπιστοσύνη που δείξατε στην **SAMSUNG** με την αγορά αυτής της συσκευής. Το προϊόν αυτό της **SAMSUNG** είναι εγγυημένο για περίοδο δώδεκα (12) μηνών από την ημερομηνία αγοράς του για ανταλλακτικά και εργατικά. Στην περίπτωση που θα χρειαστεί επισκευή, το προϊόν αυτό της **SAMSUNG** θα πρέπει να σταλεί ή να μεταφερθεί στο εξουσιοδοτημένο **service**, με έξοδα του αγοραστή. Εξουσιοδοτημένοι αντιπρόσωποι και εξουσιοδοτημένα κέντρα **service** σε άλλες Ευρωπαϊκές χώρες, θα αποδεχθούν τους όρους της εγγύησης. Πληροφορίες για τα εξουσιοδοτημένα κέντρα **service** στην Ελλάδα, μπορείτε να πάρετε από την

FOURLIS TRADE A.E.B.E.

Λ. Κρυονερίου 112
145 68 Κρυονερί, Ατικής

Τηλ. 210.629.3100

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1. Η εγγύηση ισχύει εάν και μόνο εάν το προϊόν χρειάζεται **service** και η κάρτα εγγύησης έχει πλήρως συμπληρωθεί και σφραγισθεί από το κατάστημα αγοράς. Επίσης πρέπει να προσκομισθεί και το τιμολόγιο ή η απόδειξη λιανικής πώλησης, πάνω στην οποία ο σειριακός αριθμός του προϊόντος πρέπει να είναι ευκρινής.
2. Η υποχρέωση της **SAMSUNG** αφορά μόνο την επισκευή του προϊόντος
3. Η επισκευή του προϊόντος πρέπει να ανατίθεται μόνο σε εξουσιοδοτημένα κέντρα **service** ή εξουσιοδοτημένους αντιπροσώπους της **SAMSUNG**. Καμία αποζημίωση δεν θα γίνει αποδεκτή για επισκευή που έχει γίνει από μη εξουσιοδοτημένο από την **SAMSUNG** συνεργείο.
4. Το προϊόν αυτό δεν θα θεωρηθεί ελαττωματικό στα υλικά ή στην εργασία επισκευής εάν θα πρέπει να προσαρμοστεί, μετατραπεί ή ρυθμιστεί ώστε να συμμορφωθεί με τις τοπικές τεχνικές προδιαγραφές ή προδιαγραφές που ισχύουν σε χώρα άλλη από αυτή για την οποία προοριζόταν ή κατασκευάστηκε.
Η εγγύηση αυτή δεν καλύπτει αποζημιώσεις για:
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 - * Κεφαλές βιντεοκάμερας
 - * Γεινήτριες ακτινών **laser** στα **CD, DVD**
 - * Τηλεχειριστήρια
 - * Λυχνίες φούρνων μικροκυμάτων
 - * Προσαρμογές, μετατροπές ή ρυθμίσεις, ανεξάρτητα αν είναι επιτυχής ή ανεπιτυχής, ούτε οποιαδήποτε ζημιά προέρχεται εξ αυτού...
5. Η εγγύηση αυτή δεν καλύπτει καμία από τις παρακάτω περιπτώσεις:
 - * Περιοδικούς ελέγχους, συντήρηση και επισκευή ή αντικατάσταση μερών που οφείλονται σε φυσιολογική φθορά
 - * Τα έξοδα και τους κινδύνους μεταφοράς που σχετίζονται με την εγγύηση αυτού του προϊόν-

τος

- * Ζημία σε αυτό το προϊόν που προέρχεται από:
 - A. Κατάχρηση ή και κακή χρήση, συμπεριλαμβανομένης αλλά και μη περιορισμένης σε: Μη χρήση αυτού του προϊόντος για τους σκοπούς που φυσιολογικά προορίζεται ή σύμφωνα με τις οδηγίες χρήσεως για την σωστή χρήση και συντήρηση αυτού του προϊόντος. Την εγκατάσταση και χρήση του προϊόντος με τρόπους που αντίκεινται στις τεχνικές προδιαγραφές ασφαλείας που ισχύουν κατά την χρήση του προϊόντος
 - B. Επισκευή που έγινε από μη εξουσιοδοτημένα συνεργεία **service**
 - Γ. Ατυχήματα, θεομηνίες ή οποιαδήποτε αιτία πέρα του ελέγχου της **SAMSUNG**, συμπεριλαμβανομένων αλλά μη περιορισμένων των κεραυνών, του νερού, της φωτιάς, των δημοσίων αναταραχών, του κακού αερισμού κλπ.
 - Δ. Η εγγύηση αυτή δεν επηρεάζει τα δικαιώματα του καταναλωτή που προβλέπονται από την εφαρμοστέα εθνική νομοθεσία που ισχύει, ούτε τα δικαιώματα των καταναλωτών εναντίον των λιανοπωλητών που απορρέουν από την σύμβαση πώλησης.
 - E. Σε περίπτωση που δεν υπάρχει εθνική νομοθεσία αυτή η εγγύηση θα είναι η μοναδική και αποκλειστική κάλυψη του καταναλωτή για κάθε ζημιά.

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Contact SAMSUNG WORLD WIDE

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

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(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

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