LG

HDD/DVD RECORDER

OWNER'S MANUAL

MODEL: RH265
RH266

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

HDD HARD DISK DRIVE
DVD VIDEO/RW/R
RW COMPATIBLE
RW DVD+ReWritable
Plays Windows Media™
DIVX®
DOLBY DIGITAL

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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

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

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

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

CAUTION:
Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating.
The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface.This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

CAUTION:
CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO THE BEAM.
CAUTION:
This product employs a Laser System.
To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center.
Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.
CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION concerning the Power Cord
Most appliances recommend they be placed upon a dedicated circuit;
That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.
Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.
To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

This product is manufactured to comply with the EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 2006/95/EC.

POWER: This unit operates on a mains supply of 200-240V, 50/60Hz.
WIRING: This unit is supplied with a BSI 1363 approved 13 amp mains plug, fused at 5 amp. When replacing the fuse always use a 5 amp BS 1362, BSI or ASTA approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your dealer. If the type of plug supplied is not suitable for the mains sockets in your home, then the plug should be removed and a suitable type fitted. Please refer to the wiring instructions below:
WARNING: A mains plug removed from the mains lead of this DVD player must be destroyed. A mains plug with bared wires is hazardous if inserted in a mains socket. Do not connect either wire to the earth pin, marked with the letter E or with the earth symbol ⏚ or coloured green or green and yellow.
If any other plug is fitted, use a 5 amp fuse, either in the plug, or at the distribution board.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following codes:
- BLUE: NEUTRAL, BROWN: LIVE - As the colours of the wires in the mains lead of this DVD player may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Contents

Introduction 4-9
About the ⊘ symbol display 4
Symbol Used in this Manual 4
Notes on Discs 4
Recordable and Playable Discs 5
Playable Discs 6
Regional Code 6
Availability of copying or moving feature 6
About the internal Hard Disk Drive 7
Front Panel 8
Remote Control 9
Remote Control Operation 9

Hookup and Settings 10-22
Rear Panel 10
Connecting to the antenna 10
Connections to Your TV 11
Connecting to an Amplifier 12
Accessory Audio/Video (A/V) Connections . .13-14
Auto Setup 14
Using the Home Menu 15
Initial Settings 15
General Settings 15-18
Language Settings 18
Audio Settings 18
Lock (Parental Control) Settings 19
Recording Settings 20
Disc Settings 20-21
General Explanation of On-Screen Display 22

Playback 23-32
General Playback Features 23-26
Playing a DivX Movie File 27
Playing an Audio CD or MP3/WMA file 28
Viewing a JPEG File 29-30
Editing a MP3/WMA, JPEG, DivX file 31-32

Recording 33-37
About DVD recording 33
About HDD recording 33
Timeshift 34
Basic Recording from a TV 35
Instant Timer Recording 35
Timer Recording 36
Checking Timer Recording Details 36-37
Recording from an External Input 37
Simultaneous recording and playback 37

Editing 38-45
Title List and Chapter List Menu Overview 38
HDD, VR Mode: Original and Playlist Editing . . .39
Adding Chapter Markers 39
Changing the Title Thumbnails 39
Making a New Playlist 40
Adding Additional Title/Chapters to the Playlist .40
Deleting an Original or Playlist Title/Chapter . . .41
Deleting a Part 41
Naming a Title 42
Time Search 42
Sorting the Title List 43
Divide One Title Into Two 43
Combining Two Chapters Into One 44
Additional functions for the recordable DVD discs 44
Moving a Playlist Chapter 45
Hide a Chapter/Title 45
Protect a Title 45

Dubbing 46-48
Before Dubbing 46
Dubbing from HDD to DVD 47
Dubbing from DVD to HDD 47
One Touch Copy (HDD to DVD) 48
One Touch Copy (DVD to HDD) 48

Reference 49-54
Additional Information 49
Viewing Title List menu displayed on other DVD Recorders or Players 49
Playing Your Recordings on Other DVD Players (Finalizing a Disc) 49
Language Codes 50
Area Codes 50
Controlling Your TV with the Supplied Remote Control 51
Troubleshooting 52-53
Specifications 54

Introduction

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

This manual provides information on the operation and maintenance of your recorder. Should the unit require service, contact an authorized service location.

About the ⊘ Symbol Display

" ⊘ " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

Symbol Used in this Manual

Note:
Indicates special notes and operating features.

Tip:
Indicates tips and hints for making the task easier.

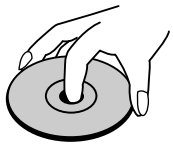
A section whose title has one of the following symbols are applicable only to the disc represented by the symbol.

HDD Titles recorded on the HDD
DVD ALL All DVD discs listed below.
- **-RWVR** DVD-RW with VR recording mode
- **-RWVideo** DVD-RW with Video recording mode
- **+RW** DVD+RW disc
- **-R** DVD-R disc
- **+R** DVD+R disc
- **DVD** DVD-Video disc

VCD Video CDs
ACD Audio CDs
DivX DivX files
MP3 MP3 files
WMA WMA files
JPEG JPEG files

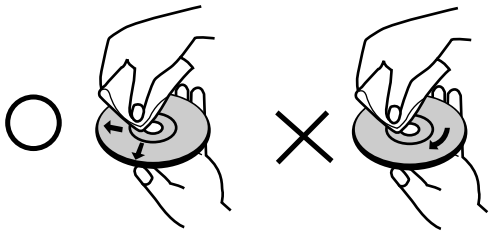
Notes on Discs

Handling Discs
Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.



Storing Discs
After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs
Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Moisture Condensation

Never operate this product immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use this product in such a situation, it may damage discs and internal parts.

Recordable and Playable Discs

DVD-RW (Digital Video Disc - ReWritable):
- DVD-RW discs can be formatted for VR mode recording or Video mode recording.
- These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc.

[VR mode]
- Recordings can be extensively edited
- Playable only on VR mode compatible players (after finalization)

[Video mode]
- Playable on regular DVD players (after finalization)
- Limited editing features

DVD-R (Digital Video Disc - Recordable)
- These Discs can be recorded only once. After you finalize a DVD-R, you cannot record on it or edit it.
- DVD-R discs can be only formatted to Video mode.
- Playable on regular DVD players (after finalization)
- Limited editing features

DVD+RW (Digital Video Disc + ReWritable)
- These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc.
- Playable on DVD+RW compatible players (automatically finalization)
- The edited contents are playable on DVD+RW compatible players only after finalization
- Recordings can be edited the title/chapter

DVD+R (Digital Video Disc + Recordable)
- These Discs can be recorded only once. After you finalize a DVD+R, you cannot record on it or edit it any more.
- Playable on DVD+R compatible players (after finalization)
- Any edited contents are not be compatible on DVD+R compatible players. (Hide, chapter combine, added chapter mark, etc.)
- Limited title/chapter editing features.

Recommended recordable DVD discs

DVD-R	DVD+R	DVD-RW	DVD+RW
Mitsubishi (8x, 16x)	Mitsubishi (8x, 16x)	Mitsubishi (2x, 4x)	Mitsubishi (2.4, 4x)
Verbatim (8x, 16x)	Verbatim (8x, 16x)	Victor (4x)	Verbatim (4x)
-	-	Maxell (4x)	Philips (4x)

Note: If a DVD-RW/DVD+RW discs is recorded using a personal computer or other DVD recorder, you cannot format the disc using this recorder. So if you want to use the disc on this recorder, you must format the disc using the original recorder.

Playable Discs

DVD (8 cm / 12 cm disc)
Discs such as movies that can be purchased or rented

Video CD (VCD) (8 cm / 12 cm disc)
VIDEO CDs or CD-Rs/CD-RWs in VIDEO CD/Super VIDEO CD format

Audio CD (8 cm / 12 cm disc)
Music CDs or CD-Rs/CD-RWs in music CD format that can be purchased

CD-R/CD-RW (8 cm / 12 cm disc)
CD-R/CD-RW discs that contain audio titles, DivX, MP3, WMA, or JPEG files.

Notes:

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). Doing so may result in malfunctions.
- Depending on the recording software & the finalization, some recorded discs (CD-R/RW or DVD±R/RW) may not be playable.
- DVD-R/RW, DVD+R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD Recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the Recorder's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- This recorder requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback.
- Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

Regional Code

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labeled same as the rear of the unit or "ALL".

Notes on Regional Codes

- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your unit's regional code or the disc cannot play.
- If you try to play a DVD with a different regional code from the unit, the message "Incorrect region code. Can't play back" appears on the TV screen.

Availability of copying or moving feature

From	To	MP3/WMA	JPEG	DivX	Audio CD	Video CD	Title*1
HDD	DISC	No	No	No	No	No	**Yes**
DISC	HDD	**Yes**	**Yes**	**Yes**	No	No	**Yes**

*1: The title is recorded from this unit.

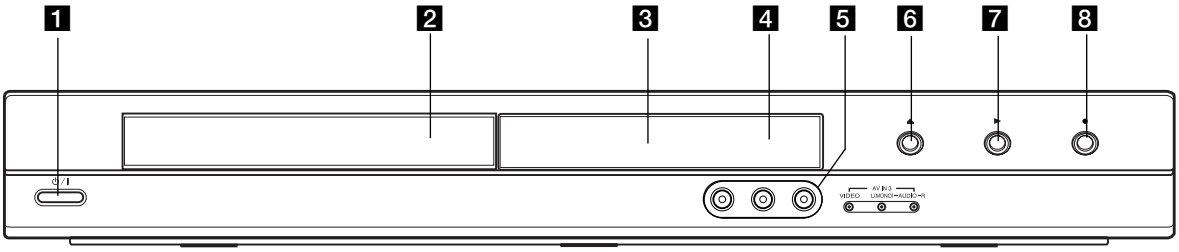
About the internal Hard Disk Drive

The internal hard disk drive (HDD) is a fragile piece of equipment. Please use the recorder following the guidelines below to protect against possible HDD failure.
We recommend that you back up your important recordings onto DVD discs in order to protect against accidental loss.

- Do not move the recorder while it is on.
- Install and use the recorder on a stable, level surface.
- Do not block the rear vent/cooling fan.
- Do not use the recorder in excessively hot or humid places, or in places that may be subject to sudden changes in temperature. Sudden changes in temperature can cause condensation to form inside the recorder. This can be a cause of HDD failure.
- While the recorder is switched on, do not unplug from the wall socket or switch the electricity off from the breaker switch.
- Do not move the recorder immediately after switching it off. If you need to move the recorder, please follow the steps below:
  1. After the message OFF is shown in the display, wait at least two minutes.
  2. Unplug from the wall socket.
  3. Move the recorder.
- If there's a power failure while the recorder is on there is a chance that some data on the HDD will be lost.
- The HDD is very delicate. If used improperly or in an unsuitable environment, it is possible that the HDD will fail after a few years of use. Signs of problems include playback unexpectedly freezing and noticeable block noise (mosaic) in the picture. However, sometimes there will be no warning signs of HDD failure.

  If the HDD fails, no playback of recorded material will be possible. In this case it will be necessary to replace the HDD unit.

Front Panel



1 **⏻ / I (POWER button)**
Switches the recorder ON or OFF.

2 **Disc Tray**
Insert a disc here.

3 **Display window**
Shows the current status of the recorder.

T/S: Indicates the timeshifting mode.

REC: The recorder is recording.

HDD: The recorder is HDD mode.

DVD: The recorder is DVD mode.

HDD ◄ ► DVD: The recorder is dubbing.

TV: Indicates when the recorder is in TV tuner mode.

◷ : Indicates when the recorder is in timer recording or a timer recording is programmed.

-18:88:88 : Shows the current status of the recorder (clock, program number, etc).

4 **Remote Sensor**
Point the recorder remote control here.

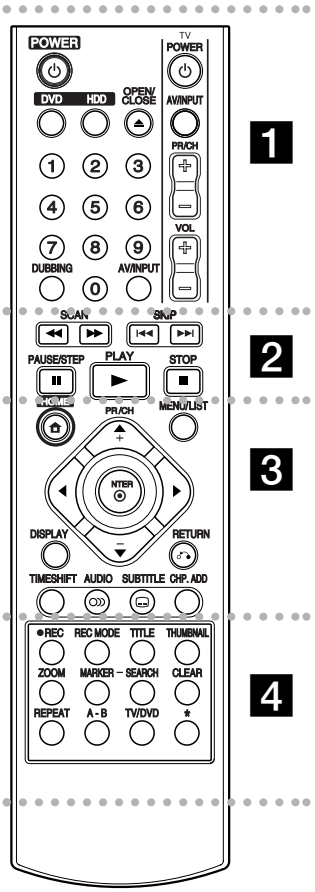
5 **AV IN 3 (VIDEO IN/AUDIO IN (Left/Right))**
Connect the audio/video output of an external source (Audio system, TV/ Monitor, VCR, Camcorder, etc.).

6 **⏏ (OPEN/CLOSE)**
Opens or closes the disc tray.

7 **► (PLAY)**
Starts playback.

8 **● (REC)**
Starts recording. Press repeatedly to set the recording time.

Remote Control



● ● ● ● ● **1** ● ● ● ● ●

POWER: Switches the recorder ON or OFF.

OPEN/CLOSE (⏏): Opens and closes the disc tray.

DVD: Selects the unit's function mode to DVD.

HDD: Selects the unit's function mode to HDD.

AV/INPUT: Changes the input to use for recording (Tuner, AV1-3).

0-9 numerical buttons: Selects numbered options in a menu.

DUBBING: Copies DVD to HDD (or HDD to DVD).

TV Control Buttons: See page 51.

● ● ● ● ● **2** ● ● ● ● ●

SCAN (◀◀ / ▶▶): Search backward or forward.

SKIP (I◀◀ / ▶▶I): Go to next or previous chapter or track.

PAUSE/STEP (❚❚) : Pause playback or recording temporarily.

PLAY (▶): Starts playback.

STOP (■): Stops playback or recording.

● ● ● ● ● **3** ● ● ● ● ●

HOME: Accesses or removes the HOME menu.

MENU/LIST: Accesses menu on a DVD disc. Switches between Title List-Original and Title List-Playlist menu.

◀ / ▶ / ▲ / ▼ (left/right/up/down): Selects an option in the menu.

ENTER (⊙): Acknowledges menu selection.

PR/CH (+/-): Scans up or down through memorized channels.

DISPLAY: Accesses On-Screen Display.

RETURN (↶): Removes the menu.

TIMESHIFT: Activates pause live TV/playback (timeshift) for a live TV program.

AUDIO (◎): Selects an audio language or audio channel.

SUBTITLE (▭): Selects a subtitle language.

CHP. ADD: Inserts a chapter marker when playing.

● ● ● ● ● **4** ● ● ● ● ●

● **REC:** Starts recording.

REC MODE: Selects the recording mode.

TITLE: Displays the disc's Title menu, if available.

THUMBNAIL: Selects a thumbnail picture.

ZOOM: Enlarges video image.

MARKER: Marks any point during playback.

SEARCH: Displays Marker Search menu.

CLEAR: Removes a mark on the Marker Search menu.

REPEAT: Repeat chapter, track, title, all.

A-B: Repeat sequence.

TV/DVD: To view channels selected by the recorder tuner or by the TV tuner.

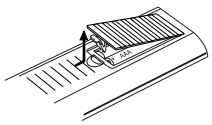
* These buttons are not available for this recorder.

Remote Control Operation

Point the Remote Control at the remote sensor and press the buttons.

Caution
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

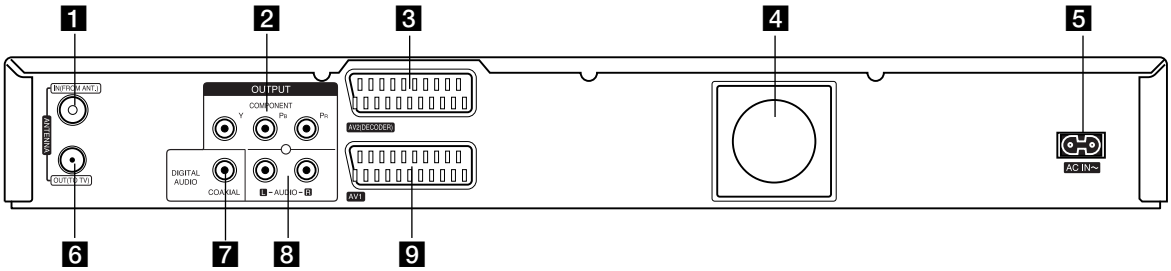
Remote Control Battery Installation



Remove the battery cover on the rear of the Remote Control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ matched correctly.

Hookup and Settings

Rear Panel



1 ANTENNA IN
Connect the antenna to this terminal.

2 COMPONENT OUTPUT (Y PB PR)
Connect to a TV with Y PB PR inputs.

3 AV 2 DECODER SCART jack
Connect the audio/video output of an external source (Pay-TV decoder, Set Top Box, VCR, etc.).

4 Cooling fan

5 AC Power Cord (AC IN ~)
Plug into the power source.

6 ANTENNA OUT
Passes the signal from the ANTENNA IN jack to your TV/monitor.

7 COAXIAL (Digital audio output jack)
Connect to digital (coaxial) audio equipment.

8 AUDIO OUTPUT (Left/Right)
Connect to a TV with audio inputs.

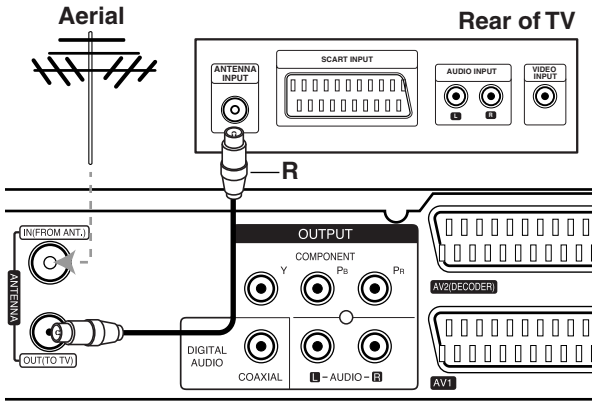
9 AV 1 SCART jack
Connect to a TV with SCART jack.

Connecting to the antenna

Remove the antenna cable plug from your TV set and insert it into the antenna socket at the back of the recorder. Plug one end of the antenna cable into the TV socket on the recorder and the other end into the antenna input socket on your TV set.

RF coaxial connection

Connect the ANTENNA OUT jack on the recorder to the antenna input jack on the TV using the 75-ohm Coaxial Cable supplied **(R)**. The ANTENNA OUT jack passes the signal through from the ANTENNA IN jack.



Rear of the recorder

Connections to Your TV

- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the COMPONENT OUTPUT jacks, set the Video Output Format option in the setup menu to YPbPr. When using the SCART jack, set the Video Output Format option in the setup menu to RGB.

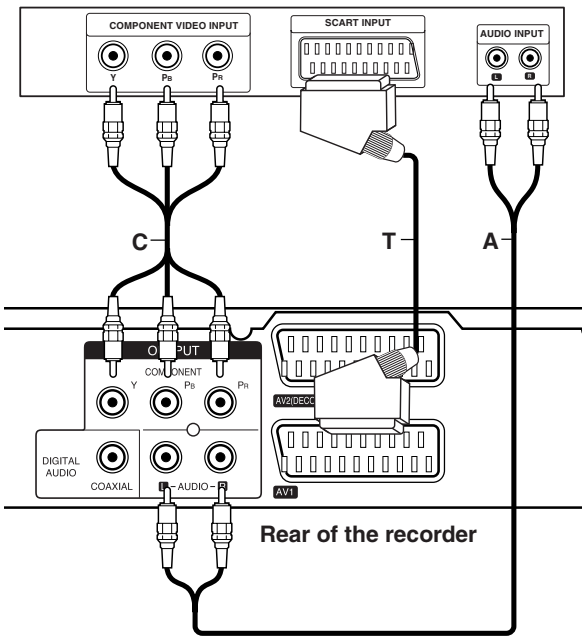
Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the recorder. Use only one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

Caution

– Make sure the recorder is connected directly to the TV. Tune the TV to the correct video input channel.
– Do not connect the recorder's AUDIO OUTPUT jack to the phono in jack (record deck) of your audio system.
– Do not connect your recorder via your VCR. The DVD image could be distorted by the copy protection system.

Rear of TV



SCART connection

Connect the AV1 SCART jack on the recorder to the corresponding in jacks on the TV using the scart cable **(T)**.

Audio (Left/Right) Connection

Connect the left and right AUDIO OUTPUT jacks of the recorder to the audio left and right IN jacks on the TV using the audio cables **(A)**. Do not connect the recorder's AUDIO OUTPUT jack to the phono in jack (record deck) of your audio system.

Component Video connection

Connect the COMPONENT OUTPUT jacks on the recorder to the corresponding input jacks on the TV using an Y PB PR cable **(C)**.

If your television is a high-definition or "digital ready" television, you may take advantage of the recorder's progressive scan output for the highest video resolution possible. If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the recorder.

- Set the Progressive Scan to [ON] on the setup menu for progressive signal, see page 17.

Caution

Once the setting for Progressive Scan output is entered, an image will only be visible on a Progressive Scan compatible TV or monitor. If you set Progressive Scan to [ON] in error, you must reset the recorder. First, remove the disc in the recorder. Next, press STOP (■) and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor.

Connecting to an Amplifier

Connecting to an amplifier equipped with two channel analog stereo or Dolby Pro Logic II/ Pro Logic

Connect the Left and Right AUDIO OUTPUT jacks on the recorder to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the audio cables **(A)**.

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/ Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)

1. Connect one of the recorder's DIGITAL AUDIO OUTPUT jacks (COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (coaxial **X**) audio cable.
2. You will need to activate the recorder's digital output. (See "Audio Settings" on page 18).

Digital Multi-channel sound

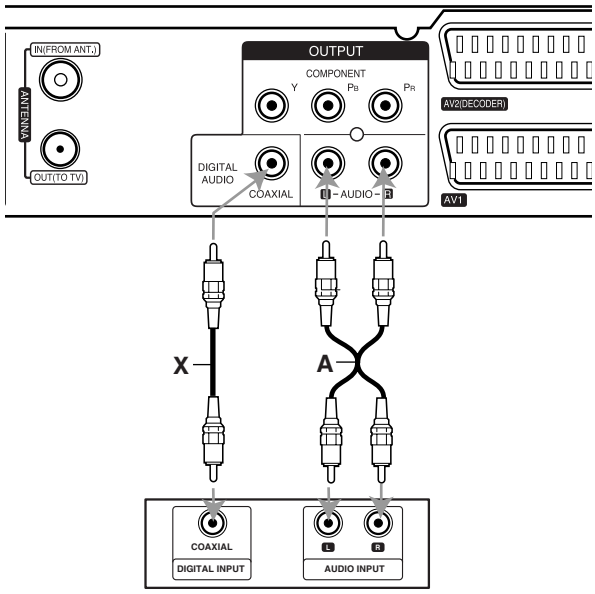
A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your recorder (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

Caution:
Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

Notes:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the on-screen display, press AUDIO.
- This recorder does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this recorder to a DTS compatible receiver via one of this recorder's digital audio outputs.

Rear of the recorder



Amplifier (Receiver)

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

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

Accessory Audio/Video (A/V) Connections

Connecting a PAY-TV/Canal Plus Decoder

You can watch or record PAY-TV/Canal Plus programmes if you connect a decoder (not supplied) to the recorder. Disconnect the recorder's mains lead from the mains when connecting the decoder.

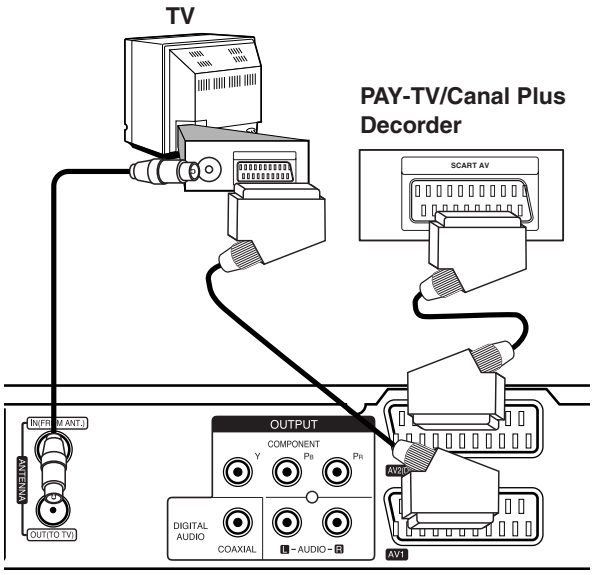
To watch or record PAY-TV/Canal Plus programmes, set [AV2 Connection] option to [Decoder] (see page 17) and set the program's [Decoder On/Off] option to [On] on the Setup menu (page 16).

Tip:

You do not need to turn on the recorder to view the signals from the connected tuner on your TV.

Note:

If you disconnect the recorder's mains lead, you will not be able to view the signals from the connected decoder.

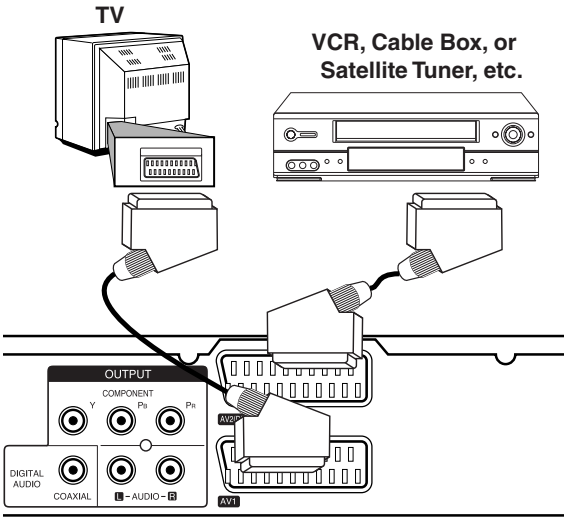


Rear of the recorder

Connecting to the AV2 DECODER jack

Connect a VCR or similar recording device to the AV2 DECODER jack of this recorder.

To watch or record the source from AV2 DECODER jack, set [AV2 Connection] option to [Other Device] (see page 17).



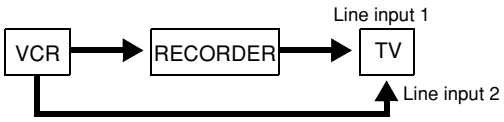
Rear of the recorder

Tip:

You do not need to turn on the recorder to view the signals from the connected tuner on your TV.

Notes:

- Pictures containing copy protection signals that prohibit any copying cannot be recorded.
- If you pass the recorder signals via the VCR, you may not receive a clear image on your TV screen. Be sure to connect your VCR to the recorder and your TV in the order shown below. To watch video tapes, watch the tapes through a second line input on your TV.

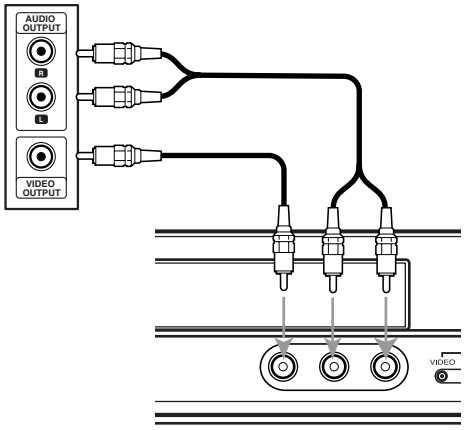


- When you record to a VCR from this recorder, do not switch the input source to TV by pressing the TV/DVD button on the remote.
- If you are using a B Sky B tuner, be sure to connect the tuner's VCR SCART jack to the AV2 DECODER jack.
- If you disconnect the recorder's mains lead, you will not be able to view the signals from the connected VCR or tuner.

Connecting to the AV IN 3 Jacks

Connect the input jacks (AV IN 3) on the recorder to the audio/video out jacks on your accessory component, using audio/video cables.

Jack panel of Accessory Component (VCR, Camcorder, etc.)



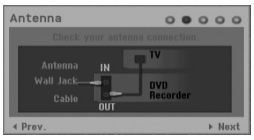
Front of the recorder

Auto Setup

After the POWER is pressed for the first time to turn on the unit or resetting the unit, the Initial Setup Wizard function sets the language, clock and tuner channels automatically.

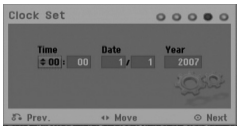
1. Select a language for the Setup menu and on-screen display. Use ▲ / ▼ to select a language then press ENTER.

2. Please check your antenna connections. Press ENTER to move next step.



3. Use ▲ / ▼ / ◄ / ► to select a audio system then press ENTER while [Start] option is selected. The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.

4. Enter the necessary information for date and time.



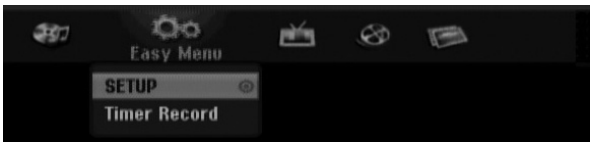
- ◄ / ► (left/right): Moves the cursor to the previous or next column.
- ▲ / ▼ (up/down): Changes the setting at the current cursor position.
- Press ENTER to confirm your setting.

5. Press ENTER while [Close] is highlighted to finish setup.

Using the Home Menu

From the Home Menu screen you can access all the Media for playback and recording of the recorder.

1. Press HOME to display the Home Menu screen.
2. Use the ◄ / ► buttons to select a main option you want. Sub options appears.
3. Use the ▲ / ▼ and ENTER buttons to select the sub option you want.



4. To exit the HOME menu, press HOME.

Easy Menu
- **SETUP:** Displays Setup menu.
- **Timer Record:** Displays Timer Record menu.

TV
- **TV HDD:** Returns to live TV viewing in HDD mode. Pressing the HDD button on the remote control will also allow you to directly choose this option.
- **TV DVD:** Returns to live TV viewing in DVD mode. Pressing the DVD button on the remote control will also allow you to directly choose this option.

MOVIE
- **HDD:** Displays the Title List menu for HDD. (page 38)
- **HDD DivX:** Displays the [Movie List] menu for HDD. (page 27)
- **DISC:**
  - Displays Title List menu for recordable disc. (page 38)
  - Displays [Movie List] menu for DivX disc. (page 27)
  - Plays Video CD or DVD-Video disc (page 23-26).

PHOTO (See page 29-30)
- **HDD:** Displays [Photo List] menu for HDD.
- **DISC:** Displays [Photo List] menu for disc.

MUSIC (See page 28)
- **HDD:** Displays [Music List] menu for HDD.
- **DISC:** Displays [Music List] (or Audio CD) menu for disc.

Initial Settings

In this menu system, there are several ways to customize the settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings.

General Operation

1. Select the SETUP option in the HOME menu. The setup menu appears.
2. Use ▲ / ▼ to select the desired option.
3. While the desired item is selected, press ► to move to the second level.
4. Use ▲ / ▼ to select the second desired option.
5. Press ► to move to the third level.
6. Use ▲ / ▼ to select the desired setting then press ENTER to confirm your selection. Some items require additional steps.
7. Press RETURN (↶) to exit the Setup menu.

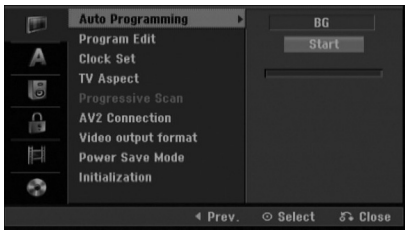
Note:
Press ◄ to go back to the previous level.

General Settings

Auto Programming

This recorder is equipped with a frequency synthesized tuner capable of receiving up to 88 TV channels.

Preparation:
Connect the recorder to the desired type of antenna, as shown in Connecting to the Antenna on page 10.



1. Select the [Auto Programming] option.
2. Press ► to move to the third level.
3. Use ▲ / ▼ to select a audio system then press ►. [Start] icon is highlighted.
4. Press ENTER to begin the channel search. The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.

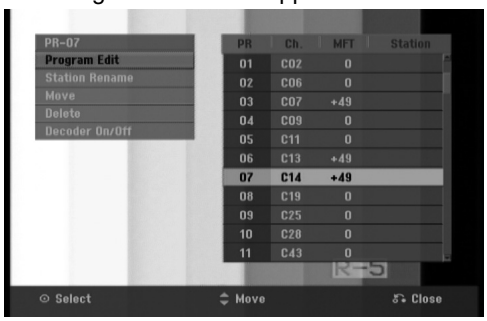
Note:
If you skip the Auto Setup menu and access the Setup menu for the first time, you can only set the [Auto Programming] option. You can set the other options after finishing [Auto Programming].

General Settings (Continued)

Program Edit

You can edit a channel manually (add, delete, name, move, etc.).

1. Select [Program Edit] option then press ►.
2. Press ENTER while [Edit] is selected.
   The Program List menu appears.



3. Use ▲ / ▼ to select a PR number then press ENTER.
4. Use ▲ / ▼ to select the program option then press ENTER.
   - [Program Edit] Sets the channel manually. See "Program Edit" on the right.
   - [Station Rename] Changes the station name. The display for entering characters appears. To enter characters, see page 42. Names can be up to 5 characters long.
   - [Move] Sorts the programme positions on the Program List. Press ▲ / ▼ to move the selected programme position to a new location.
   - [Delete] Disables a programme position you do not need.
   - [Decoder On/Off] Sets the channels for the decoder. You need this setting to watch or record PAY-TV/Canal Plus programmes. Press ENTER so [Decoder] appears on the display. Press ENTER again to turn off the setting.
5. Press RETURN (↶) repeatedly to exit Program List menu.

Program Edit

You can perform a search to select and store TV channels manually.
When you select [Program Edit] in step 4 above, the display for setting channels appears.

1. Use ◄ / ► to select the item and press ▲ / ▼ to change the setting.

   - [PR] indicates the selected programme position.
   - [Seek] Searches for a channel automatically. Searching stops when the recorder tunes in a channel.
   - [Ch.] Changes the channel number.
   - [MFT] Fine tunes the channel to obtain a clearer picture.
   - [Audio] Changes the audio system (BG, I or DK).
2. Choose [OK] then press ENTER to confirm the setting and returns to the Program List menu.

AV1 Decoder

Sets the AV1 scart jack for inputting encoded video signals.

1. Press AV/INPUT while the Program List menu appears.
2. Press ENTER so [Decoder] appears on the display. Press ENTER again to turn off the setting.
   - Off: Inputs the signals from the AV1 scart jack. Normally select this.
   - On: The encoded video signal input from the AV1 scart jack is output to the AV2 DECODER jack for decoding.
     The decoded signal is then input back through the AV2 DECODER jack so you can record or view PAY-TV/Canal Plus programmes.

General Settings (Continued)

Clock Set

1. Select [Clock Set] option then press ►.
2. Enter the necessary information for date and time.
   ◄ / ► (left/right): Moves the cursor to the previous or next column.
   ▲ / ▼ (up/down): Changes the setting at the current cursor position.
3. Press ENTER to confirm your setting.

TV Aspect

Selects the aspect ratio of the connected TV (4:3 standard or wide).

- [4:3 Letter Box] Select this when connecting to a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
- [4:3 Pan Scan] Select this when connecting to a 4:3 screen TV. Automatically displays a wide picture on the entire screen and cuts off the portions that do not fit.
- [16:9 Wide] Select this when connecting to a wide-screen TV or TV with a wide mode function.

Progressive Scan

Progressive Scan Video provides the highest quality pictures with less flickering.
If you are using the COMPONENT OUTPUT jacks, but are connecting the recorder to a standard (analog) television, set Progressive Scan to [OFF].
If you are using the COMPONENT OUTPUT jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to [ON].

Note:

Progressive Scan will be disable in the setup menu when the Video Output Format in the setup menu is set to RGB.

Caution

Once the setting for Progressive Scan output is entered, an image will only be visible on a Progressive Scan compatible TV or monitor. If you set Progressive Scan to [ON] in error, you must reset the recorder. First, remove the disc in the recorder. Next, press STOP (■) and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor.

AV2 Connection

You can connect a decoder or other device to the AV2 DECODER jack on the back.

- [Decoder] Select [Decoder] if you connect the recorder's AV2 DECODER jack to a PAY-TV or Canal Plus decoder.
- [Other Device] Select [Other Device] if you connect the recorder's AV2 DECODER jack to a VCR or similar recording device.

Video output format

Select the Video output format option according ro the connection type of this unit

- [RGB] When your TV is connected with the SCART(RGB signal) jack on this unit.
- [YPbPr] When your TV is connected with the COMPONENT OUTPUT jack on this unit.

Power Save Mode

You can set up the unit into an economic power save mode. Nothing is displayed in the display window when the unit is turned off.

- [OFF] Power Save Mode is not active.
- [ON] Power Save Mode is active.

Notes:

- The encoded television signals (CANAL+ or PREMIERE) are not decoded in the Power Save Mode.
- The Power Save Mode is not available in the standby mode for the timer recording and when power off of the unit after receiving the encoded television signals (CANAL+ or PREMIERE).

General Settings (Continued)

Initialization

You can reset the recorder to its original factory settings and initialize the HDD.

- [Factory Set] If you need to, you can reset the recorder to all its factory settings. Some options cannot be reset. (Rating, Password, and Area Code)
- [HDD format] Initializes the HDD (Hard Disk Drive): everything recorded on the HDD will be erased.

1. Select [Initialization] option then press ►.
2. Press ▲ / ▼ to select the desired option then press ENTER.
   The confirm message will appear.
3. Use ◄ / ► to select [OK] or [Cancel] then press ENTER.

Language Settings

Display Menu

Select a language for the Setup menu and on-screen display.

Disc Menu/Audio/Subtitle

- [Original] Refers to the original language in which the disc was recorded.
- [Others] To select another language, enter the corresponding 4-digit number according to the language code list in the reference chapter (see page 50). If you enter the wrong language code, press CLEAR.
- [OFF] (for Disc Subtitle) : Turn off Subtitle.

Audio Settings

Each DVD disc has a variety of audio output options. Set the recorder's Audio Output according to the type of audio system you use.

Dolby Digital / DTS / MPEG

- [Bitstream]: Select "Bitstream" if you connect the recorder's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.
- [PCM] (for Dolby Digital / MPEG): Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.
- [OFF] (for DTS): If you select "OFF", the DTS signal is not output through the DIGITAL AUDIO OUT jack.

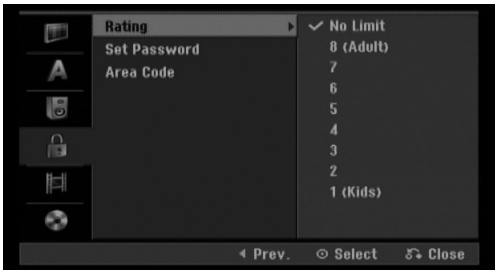
Sampling Frequency

If your receiver or amplifier is NOT capable of handling 96 kHz signals, select [48 kHz]. When this choice is made, this unit will automatically convert any 96 kHz signals to 48 kHz so your system can decode them.
If your receiver or amplifier is capable of handling 96 kHz signals, select [96 kHz]. When this choice is made, this unit will pass each type of signal through without any further processing.

DRC (Dynamic Range Control)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to [ON] for this effect.

Lock (Parental Control) Settings



Rating

Blocks playback of rated DVDs based on their content. Not all discs are rated.

1. Select [Rating] option then press ►.
2. To access the Rating, Set Password and Area Code features, you must input the 4-digit security code you created.
   If you have not yet entered a security code you are prompted to do so. Input a 4-digit code. Enter it again to verify. If you make a mistake while entering number, press CLEAR repeatedly to delete numbers one by one then correct it.
3. Select a rating using the ▲ / ▼ buttons.

   [1] - [8]: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

   [No Limit]: If you select [No Limit], parental control is not active and the disc plays in full.
4. Press ENTER to confirm your rating selection.

Note:
If you set a rating for the recorder, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.

Set Password

1. Select [Set Password] option then press ►.
2. Follow step 2 as shown “Rating”.
   To change the password, select the [Change], press ENTER then input the current password and input the new 4-digit code. Input it again to verify. To delete the password, select the [Delete], press ENTER then input the current password.

If you forget your 4-digit code
If you forget your password, to clear the current password, follow the procedure below.

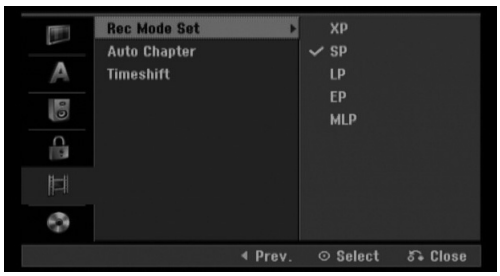
1. Display Setup menu then select an 1 level icon.
2. Use the Number buttons to enter the 6-digit number “210499”.
3. Select [OK] then press ENTER. The 4-digit password is cleared. Enter a new code.

Area Code

Enter the code of an area whose standards were used to rate the DVD video disc, referring to the list (See “Area Codes”, page 50.).

1. Select [Area Code] option then press ►.
2. Follow step 2 as shown “Rating”.
3. Select the first character using the ▲ / ▼ buttons.
4. Shift the cursor using ► buttons and select the second character using ▲ / ▼ buttons.
5. Press ENTER to confirm your area code selection.

Recording Settings



Record Mode Set

You can set the picture quality for recording;
XP (Excellent Play), SP (Standard Play),
LP (Long Play), EP (Extended Play),
MLP (Maximum Long Play)

- **XP** – Highest quality setting, gives about 1 hour of recording time on a DVD (4.7GB).
- **SP** – Default quality, sufficient for most applications, gives about 2 hours of recording time on a DVD (4.7GB).
- **LP** – Slightly lower video quality, gives about 4 hours of recording time on a DVD disc (4.7GB).
- **EP** – Low video quality, gives about 6 hours of recording time on a DVD (4.7GB).
- **MLP** – The longest recording time with the lowest video quality, gives about 11 hours of recording time on a DVD (4.7GB).

Note:
You may see a fragmented picture or distorted subtitle during playing back the contents recorded in EP and MLP mode.

Auto Chapter

When DVD or HDD recording, chapter markers are put in specified setting. You can change this interval to 5 minutes, 10 minutes or 15 minutes. If you select [None], switch off automatic chapter marking altogether with the [None] setting.

Timeshift

Set this option to [ON] make this unit to use the Timeshift function automatically without pressing the TIMESHIFT button. The Timeshift function will start automatically about 10 seconds after the TV tuner mode is started.
If you want to use this function manually, see “Timeshift” on page 34.
- [OFF] Use Timeshift function manually.
- [ON] Use Timeshift function automatically.

Disc Settings

Disc Format

If you load a completely blank disc, the recorder will initialize the disc.
DVD-R: The recorder initialize the disc to Video mode. The recording mode will always be Video mode.
DVD-RW/DVD+RW/DVD+R: The Initialize menu will appears. Select [OK] then press ENTER.
DVD-RW disc is initialized to Video mode.
Also, you can reformat the DVD-RW/DVD+RW from the Setup menu as below.

1. Select [Disc Format] option then press ►.
2. Press ENTER while [Start] is selected.
   Format Disc menu appears.
3. Use ◄ / ► to select a desired mode (VR Mode or Video Mode) then press ENTER.
   Confirm message will appear.
   For DVD+RW discs, go to step 4.
4. Use ◄ / ► to select [OK] then press ENTER.
   It takes a few moments to initialize the disc.

Caution
If you want to change the disc format, everything recorded on the disc will be erased.

Disc Settings (Continued)

Finalize

Finalizing 'fixes' the recordings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive. Finalizing a disc creates a menu screen for navigating the disc. This is accessed by pressing MENU/LIST or TITLE.

Caution

- Once you have finalized a DVD-R and DVD+R disc, you cannot edit or record anything else on that disc.
- You can record and edit a DVD-RW disc by choosing [Unfinalize] option.
- You can edit or record on the DVD+RW disc even after finalizing.

1. Select [Finalize] option then press ►.
2. Press ENTER while [Finalize] is selected.
   Finalize menu appears.
3. Select [OK] then press ENTER.
   The recorder starts finalizing the disc.

Note:

How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

Tips

- If you load a DVD-RW that has already been finalized, you can 'Unfinalize' it by choosing Unfinalize from the Finalize menu. After doing this, you can edit and re-record onto the disc.
- You cannot unfinalize a DVD-R and DVD+R disc.
- If [Disc Protect] option is set to [ON], the finalize is not available. To finalize, set [Disc Protect] option to [OFF].

Disc Label

Use this to enter a name for the disc. This name appears when you load the disc and when you display disc information on-screen.

- The disc name can be up to 32 characters long.
- For discs formatted on a different recorder, you will see only a limited character set.

1. Select [Disc Label] option then press ►.
2. Press ENTER while [Edit] is selected.
   Keyboard menu appears.
   To enter characters, see page 42.

Disc Protect

When recording in DVD+RW / +R disc or VR mode formatted DVD-RW disc, set to [ON] to prevent accidental recording, editing or deleting of the disc loaded. If you need to unlock the disc to make edits, select [OFF].

PBC

PBC stands for Playback Control and refers to special menus and navigation features that are available on some Video CDs.

- [OFF] Video CDs are played the same way as Audio CDs.
- [ON] Video CDs are played according to the PBC, if available.

DivX Registration Code

We provide you the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit www.divx.com/vod.

1. Select [DivX Reg. Code] option then press ►.
2. Press ENTER while [Enter] is selected and the registration code will appear.
3. Use the registration code to purchase or rent the videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and download the video onto a disc for playback on this unit.

Note:

All the downloaded videos from DivX® VOD can only be played back on this unit.

General Explanation of On-Screen Display

This manual gives basic instructions for operating the recorder. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol ⊘ appears on the TV screen, indicating that the operation is not permitted by the recorder or is not available on the disc.

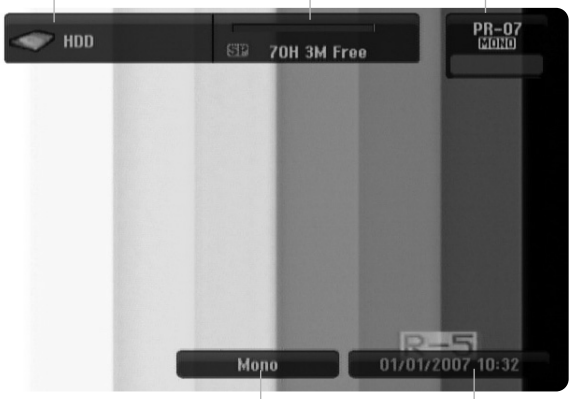
Displaying Information While Watching TV

During viewing the TV, press DISPLAY to display/remove the information displayed on-screen.

Indicates channel number, station name, and audio signal (MONO) received by the tuner.

Indicates the record mode, free space, and elapsed time progress bar.

Indicates disc name and format.



Indicates current audio channel.

Indicates current date and time.

Displaying Disc Information on-screen

You can display various information about the disc loaded on-screen.

1. Press DISPLAY once to show current status.

2. Press DISPLAY once again to show various playback information.
   The items displayed differ depending on the disc type or playing status.

3. You can select an item by pressing ▲ / ▼ and change or select the setting by pressing ◄ / ►. For details about each item, see the pages in parenthesis.
   - [Title]: Current title (or track) number/total number of titles (or tracks) (page 23, 25)
   - [Chapter]: Current chapter number/total number of chapters (page 23)
   - [Time]: Elapsed playing time (page 25)
   - [Audio]: Selected audio language (DVD VIDEO only) or audio channel (page 24)
   - [Subtitle]: Selected subtitle (page 24)
   - [Angle]: Selected angle/total number of angles (page 25)
   - [Sound]: Selected sound mode (page 26)

Note:

If no button is pressed for 10 seconds, the on-screen display disappears.

Playback

General Playback Features

1. Load your chosen disc in the tray, with the playback side down.
2. Starts playback using HOME menu (see page 15).
3. To stop the playback, press STOP (■).
   The unit records the stopped point, depending on the disc. "❚❚■" appears on the screen briefly.
   Press PLAY (►) to resume playback (from the scene point). If you press STOP (■) again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.
4. Press OPEN/CLOSE (⏏) to remove the disc.
   Press OPEN/CLOSE (⏏) to close disc tray or press POWER (⏻), the disc tray closes automatically and unit turns off.

Note:
If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Rating", on page 19).

Buttons	Operations	Discs
OPEN / CLOSE (⏏)	Opens or closes the disc tray.	All Discs
PAUSE/STEP (❚❚)	During playback, press PAUSE/STEP (❚❚) to pause playback.	All Discs and HDD
	Press PAUSE/STEP (❚❚) repeatedly to play Frame-by-Frame. ***Tip:*** You can advance or back up the picture frame-by-frame by pressing ◄ / ► repeatedly during PAUSE mode. The picture frame-by-frame in reverse is not available for Video CD.	HDD DVD ALL VCD
SKIP (I◄◄ / ►►I)	During playback, press SKIP (I◄◄ or ►►I) to go to the next chapter/track or to return to the beginning of the current chapter/track. Press SKIP I◄◄ twice briefly to step back to the previous chapter/track. ***Tips:*** • To go directly to any chapter during DVD playback, press DISPLAY twice and press ▲ / ▼ to select the chapter icon. Then, input the chapter number or use ◄ / ►. • On an Audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.	HDD DVD ALL VCD DivX ACD MP3 WMA
SCAN (◄◄ / ►►)	During playback, press SCAN (◄◄ or ►►) repeatedly to select the required scan speed. HDD, DVD; 5 steps Video CD, Audio CD, DivX; 3 steps	HDD DVD ALL VCD DivX ACD
	While the playback is paused, press SCAN (◄◄ or ►►) repeatedly to play in slow motion. HDD, DVD; 4 steps Video CD; 4 steps (Forward only)	HDD DVD ALL VCD
ZOOM	During playback or pause mode, press ZOOM to enlarge the video image. (x1 size → x2 size → x4 size → x1 size (normal size)). You can move through the zoomed picture using ◄ ► ▲ ▼ buttons.	HDD DVD ALL VCD

General Playback Features (Continued)

Buttons	Operations	Discs
REPEAT	During playback, press REPEAT repeatedly to select a desired repeat mode. HDD, DVD, Video mode DVD-R/RW, DVD+R/RW (Chapter/Title/Off) VR mode DVD-RW (Chapter/Title/All/Off) Video CD, Audio CD (Track/All/Off) MP3/WMA (Track/Folder/Off) ***Notes:*** ● On a Video CD with PBC, you must set PBC to [OFF] in the Setup menu to use the Repeat function. See page 21. ● If you press SKIP (▶▶I) once during Repeat Chapter (Track) playback, the repeat playback cancels.	HDD DVD ALL VCD ACD MP3 WMA
A-B	During playback, each press of A-B button to select point A and point B and repeats a sequence from point A (Starting point) to point B (End point). Press A-B to stop A-B repeat. ***Note:*** You cannot select a sequence less than 5 seconds.	HDD DVD ALL VCD ACD
TITLE	If the current DVD title has a menu, the title menu appears on the screen. Otherwise, the disc menu may appears.	DVD
MENU/LIST	The disc menu appears on the screen.	DVD
SUBTITLE ( )	During playback, press SUBTITLE then press ◀ / ▶ repeatedly to select a desired subtitle language.	DVD DivX
AUDIO ( )	Press AUDIO then press ◀ / ▶ repeatedly to hear a different audio language, audio channel or encoding method. ***Note:*** Some discs feature both Dolby Digital and DTS soundtracks. There is no analog audio output when DTS is selected. To listen to the DTS soundtrack, connect this recorder to a DTS decoder via one of the digital outputs. See page 12 for connection details.	DVD DivX
	Press AUDIO then press ◀ / ▶ repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT).	HDD -RWVR -RWVideo +RW -R +R VCD

If a menu screen is displayed DVD VCD

The menu screen may be displayed first after loading a DVD or Video CD which contains a menu.

DVD

Use the ◄ / ► / ▲ / ▼ buttons to select the title/chapter you want to view, then press ENTER to start playback.
Press TITLE or MENU/LIST to return to the menu screen.

VCD

- Use the number buttons to select the track you want to view.
  Press RETURN (↶) to return to the menu screen.
- Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You may also set PBC to [OFF] under Setup menu (see page 21).

Moving to another TITLE

HDD DVD ALL DivX

When a disc has more than one title, you can move to another title as follows:

- Press DISPLAY twice during playback then use ▲ / ▼ to select the title icon. Then, press the appropriate numbered button (0-9) or ◄ / ► to select a title number.

Time Search HDD DVD ALL DivX

To start playing at any chosen time on the disc:

1. Press DISPLAY twice during playback. The time search box shows the elapsed playing time.
2. Press ▲ / ▼ to select the time clock icon and “0:00:00” appears.
3. Input the required start time in hours, minutes, and seconds from left to right.
   If you enter the wrong numbers, press ◄ / ► to move the under bar (_) to the wrong number. Then enter the correct numbers.
4. Press ENTER to confirm. Playback starts from the selected time.

Marker Search DVD-Video 3/6

HDD DVD ALL VCD

To enter a Marker

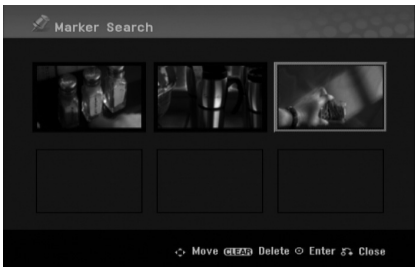
You can start playback from up to six memorized points. To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to six markers.

To Recall or Clear a Marked Scene

1. During disc playback, press SEARCH. The marker search menu appears on the screen.
2. Use ◄ / ► / ▲ / ▼ to select a marked scene that you want to recall or clear.
3. Press ENTER and playback starts from the marked scene.

   or

   Press CLEAR and the confirm message will appear. Select [OK] and press ENTER to erase the scene from the marker search menu.



Camera Angle DVD

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

1. Press DISPLAY twice during playback. The On-Screen Display appears on the TV screen.
2. Use ▲ / ▼ to select the Angle icon in the On-Screen Display.
3. Use ◄ / ► to select a desired angle.
   The number of the current angle appears on the TV screen.

Tip:

The ANGLE indicator will blink on the TV screen at scenes recorded at different angles to indicate that angle switching is possible.

3D Surround DVD ALL VCD

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

1. Press DISPLAY twice during playback. The On-Screen Display appears on the TV screen.
2. Use ▲ / ▼ to select the Sound icon in the On-Screen Display.
3. Use ◄ / ► to select “3D SUR”.
   To turn off the 3D Surround effect, select “NORMAL”.

Last Condition Memory DVD

This recorder memorizes the user settings for the last disc that you have viewed. Settings remain in memory even if you remove the disc from the recorder or switch off the recorder. If you load a disc that had its settings memorized, the latest stop position is automatically recalled.

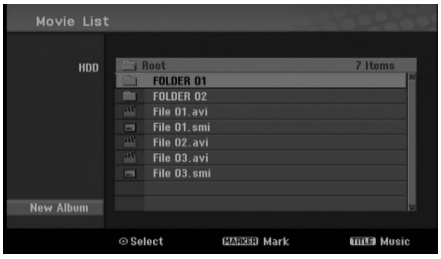
Notes:

- Settings are stored in memory for use any time.
- This recorder does not memorize settings of a disc, if you press STOP twice or switch off the recorder before commencing to play it.

Playing a DivX Movie File

The recorder can play DivX files. Before playing DivX files, read “DivX file requirement” on right.

1. Press HOME then select [MOVIE] option.
2. Select a media that contains DivX file(s) then press ENTER.
   The [Movie List] menu appears on the TV screen.



3. Press ▲ / ▼ to select a folder, and press ENTER.
   A list of files in the folder appears. If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote to highlight .. and press ENTER.
4. If you want to view a particular file, press ▲ / ▼ to highlight a file and press PLAY (►).
   You can use variable playback functions. Refer to pages 23-26.
5. Press STOP (■) to stop the playback. The [Movie List] menu appears.
   - To exit the menu screen, press RETURN (↶).

Notice for displaying the DivX subtitle

If the subtitle does not display properly, please follow the steps below.

1. Press PAUSE/STEP when the subtitle appears.
2. Press and hold SUBTITLE about 3 seconds.
   The language code will appear.
3. Press ◄ / ► to select another language code until the subtitle is displayed properly.
4. Press PLAY (►) to continue playback.

Note:

The DivX subtitle file name has to be identified with the DivX file name to display by this unit.

Movie List menu options

1. Press ▲ / ▼ to select a folder/file on the [Movie List] menu then press ENTER.
   [Movie List] menu options appear.
   The menu options displayed differ depending on the selected media.
2. Press ▲ / ▼ / ◄ / ► to select an option, and press ENTER.
   - [Play] Start playback the selected title.
   - [Open] Opens the folder and a list of files in the folder appears.
   - [Delete] Deletes the file(s) or folder(s) from the media.
   - [Rename] Edits the file name. (page 31)
   - [Move] Moves the file(s) to another folder or media. (page 32)
   - [Copy] Copies the file(s) to another folder or media. (page 32)

DivX file requirement

Available resolution size: 720x576 (W x H) pixel

DivX file extensions: “.avi”, “.divx”

Playable DivX subtitle: “.smi”, “.srt”, “.ssa”, “.sub (Micro DVD, Subviewer 1.0/2.0)”, “.txt (TM player, DVD subtitle system)”

Playable Codec format:
“DIVX3.xx”, “DIVX4.xx”, “DIVX5.xx”

Playable Audio format: “AC3”, “MP3”

- Sampling frequency:
  within 8 - 48 kHz (MP3)
- Bit rate:
  within 8 - 320kbps (MP3)

CD-R Format: ISO 9660 and JOLIET.

DVD±R/RW Format: ISO 9660 (UDF Bridge format)

Maximum Files/Folder: Less than 2000

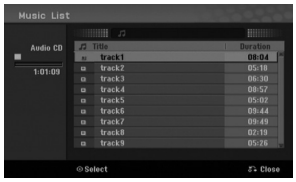
Notes on DivX format

- If the number of the screen frame is over 29.97 frames per second, this unit may not operate normally.
- If there is impossible code to express in the DivX file name, it may be displayed as “*” mark.
- If the video and audio structure of recorded file is not interleaved, returns to the menu screen.
- This unit does not support the DivX file that is recorded with GMC (Global Motion Compensation).

Playing an Audio CD or MP3/WMA file

The recorder can play audio CDs and MP3/WMA files. Before playing MP3/WMA files, read “MP3/WMA audio file requirement” on right.

1. Press HOME.
   The HOME menu appears.
2. Select [MUSIC] option.
3. Select a media that contains MP3/WMA or audio title then press ENTER.
   The [Music List] menu appears on the TV screen.



4. Use ▲/▼ to select a track then press PLAY (►).
   Playback starts.
   You can use variable playback functions. Refer to pages 23-24.

   Tips:
   - Press DISPLAY to view ID3-Tag information for the MP3 file. If ID3-Tag information is not present, [ID3 Tag: Not Checked] will appear.
     If you select a folder, the number of subfolders and number of MP3/WMA files in the folder are displayed. Press DISPLAY again to remove the information screen.
   - If you want to move to the upper directory, use the ▲ / ▼ to highlight .. and press ENTER.
   - You also display HOME menu to select another media by pressing HOME.
   - To exit the menu screen, press HOME and select [TV DVD] or [TV HDD] option then press ENTER.

5. To stop playback at any time, press STOP (■).

Tip:
You can create new folder. Select [New Album] option on the Music-HDD menu then press ENTER.
“NONAME##” folder is created.

Audio CD and Music menu options

1. Press ▲ / ▼ to select a folder/file on the Audio CD or Music menu then press ENTER.
   The menu options appear.
   The menu options displayed differ depending on the selected media.
2. Press ▲ / ▼ / ◄ / ► to select an option, and press ENTER.
   - [Play] Start playback the selected title.
   - [Random] Start or stop random playback.
   - [Open] Opens the folder and a list of files in the folder appears
   - [Delete] Deletes the file(s) from the media.
   - [Rename] Edits the file name. (page 31)
   - [Move] Moves the file(s) to another folder or media. (page 32)
   - [Copy] Copies the file(s) to another folder or media. (page 32)

Random

1. Press ▲ / ▼ to select a file then press ENTER.
   The menu options appear.
2. Press ▲ / ▼ to select [Random] option then press ENTER.
   The unit automatically begins random playback and “RANDOM” appears on the menu screen.
3. To return to normal playback, select [Random] option again then press ENTER.

Tip:
By pressing SKIP ►►I during Random playback, the unit selects another track and resumes Random playback.

MP3/WMA audio file requirement

File extensions
“.mp3”, “.wma”.

Sampling frequency:
within 8 - 48 kHz (MP3), within 32 - 48kHz (WMA)

Bit rate:
within 8 - 320kbps (MP3), within 32 - 192kbps (WMA)

CD-R Format:
ISO 9660 and JOLIET.

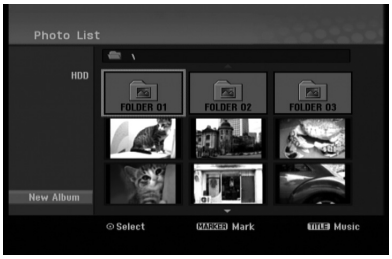
DVD±R/RW Format:
ISO 9660 (UDF Bridge format)

Maximum Files/Folder:
Less than 2000

Viewing a JPEG File

The recorder can play JPEG files. Before playing JPEG recordings, read “Photo file requirement” on right.

1. Press HOME.
   The HOME menu appears.
2. Select [PHOTO] option.
3. Select a media that contains JPEG file then press ENTER.
   The [Photo List] menu appears on the TV screen.



4. Use ◄ / ► / ▲ / ▼ to select a file, then press ENTER.
   The menu options appear on the left side of the menu.

Tips:

- If you want to move to the upper directory, use the ◄ / ► / ▲ / ▼ to highlight .. and press ENTER.
- You can also display HOME menu to select another media by pressing HOME.

5. Use ▲ / ▼ to select [Full Screen] then press ENTER.
   The selected image is displayed in full screen.
   Depending upon the size and number of JPEG files, it could take a long time for the recorder to read the files.

Press ENTER to appear or disappear this menu during viewing the full screen.

6. To stop viewing at any time, press STOP (■).
   The [Photo List] menu appears.
   - To exit the menu screen, press HOME and select [TV DVD] or [TV HDD] option then press ENTER.

Photo List menu options

1. Press ▲ / ▼ to select a file on the [Photo List] menu then press ENTER.
   The menu options appear.
   The menu options displayed differ depending on the selected media.
   You can select all files and folders on the menu by pressing CLEAR button. To cancel the selections, press CLEAR again.

   Selecting multiple files (folders)

   1. Press MARKER.
   A check mark appears on the file or folder.
   Press MARKER again to cancel the marked file or folder.

   2. Repeat step 1 to mark additional file (folders).

2. Use ▲ / ▼ to select an option then press ENTER to confirm your selection.
   - [Open] Opens the folder and a list of files in the folder appears
   - [Full Screen] Shows the selected file as full screen.
   - [Delete] Deletes the selected file from the media.
   - [Slide Show] Displays Slide Show menu.
   - [Rename] Edits the file name. (page 31)
   - [Move] Moves the file(s) to another folder (album) or media. (page 32)
   - [Copy] Copies the file(s) to another folder or media. (page 32)

Tip:

You can create new folder in the HDD .
Select [New Album] option then press ENTER.
“NONAME##” folder is created.

Photo file requirement

File extensions
“.jpg”

Photo size:
Less than 4MB recommended

CD-R Format:
ISO 9660 and JOLIET.

DVD±R/RW Format:
ISO 9660 (UDF Bridge format)

Maximum Files/Folder:
Less than 2000

Notes on JPEG file

- Progressive and lossless compression JPEG image files are not supported.
- Depending on the size and number of the JPEG files, it may take several minutes to read the contents of the media.

Skip Images

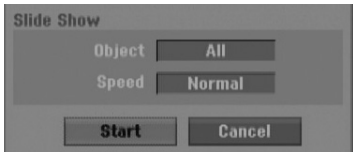
While viewing a picture, press SKIP (⏮ or ⏭) once to advance to the next file or return to the previous file.

Rotate Images

Use ▲ / ▼ while viewing a picture to flip the picture clockwise or counterclockwise.

View Slide Shows

1. Select [Slide Show] option on the [Photo List] menu (Refer to “Photo List menu options” on page 29).
2. Press ENTER.
   The Slide Show menu appears.



3. Use ◄ / ► / ▲ / ▼ to set the options.
   [Object] option:
   - [Selected] Views slide show only selected files. Use the MARKER button to select multiple files.
   - [All] Views slide show all files.

   [Speed] option:
   Sets the Slide Show speed to [Slow], [Normal], or [Fast].
4. Select the [Start] option then press ENTER to start the Slide Show.
5. Press STOP (■) to stop the Slide Show and returns to the [Photo List] menu.

To Pause the Slide Show

1. Press PAUSE/STEP (❚❚) to pause slide show.
2. When you want to continue slide show, press PLAY (►).

Editing a MP3/WMA, JPEG, DivX file

These descriptions are MP3 file's operation for example, other kind's files are operated same way.

Erasing a file(s)/folder(s) from the HDD

You can erase MP3/WMA, JPEG or DivX file(s)/ folder(s) on the HDD.

1. Select a file you wish to erase on the menu.
   You can select all files and folders on the menu by pressing CLEAR button. To cancel the selections, press CLEAR again.

   Selecting multiple files (folders)

   1. *Press MARKER.*
      A check mark appears on the file or folder.
      Press MARKER again to cancel the marked file or folder.
   2. *Repeat step 1 to mark additional file (folders).*

2. Press ENTER.
   The menu options appear on the menu.

3. Select [Delete] option then press ENTER.
   The confirm message for deleting will appear.
   Use ◄ / ► to select [OK] then press ENTER.
   The selected file(s) is deleted.

Naming a file on the HDD

You can name MP3/WMA files on the HDD independently. Names can be up to 32 characters long.

1. Select a file you wish to rename on the menu.
2. Press ENTER.
   The menu options appear on the menu.
3. Select [Edit] option then press ENTER.
   Edit options appears.

4. Select [Rename] option then press ENTER.
   Keyboard menu appears.
   To enter characters, see page 42.

Copying a file(s) to the HDD

You can copy a file(s)/folder(s) to the HDD.

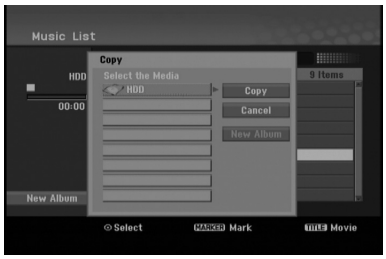
1. Select a file you wish to copy on the menu.
   You can select all files and folders on the menu by pressing CLEAR button. To cancel the selections, press CLEAR again.

   Selecting multiple files (folders)

   1. *Press MARKER.*
      A check mark appears on the file or folder.
      Press MARKER again to cancel the marked file or folder.
   2. *Repeat step 1 to mark additional file (folders).*

2. Press ENTER.
   The menu options appear on the menu.
3. Select [Edit] option then press ENTER.
   Edit options appears.
4. Select [Copy] option then press ENTER.
   Copy menu appears.

5. You can select a album (folder) to copy.
   1. After selecting a media then press ENTER.
      The album (folder) list appears.
   2. Select a folder.
      Also, you can create new album (folder). Select [New Album] option on the Copy menu then press ENTER.
      “NONAME##” folder is created.
6. Select [Copy] option then press ENTER to begin copying.



Notes:

- If a folder’s depth is more than 5 level, the copy is not available.
- If a file size is more than 2GB, the copy is not available.

Moving a file(s) to the other folder on the HDD

You can move a file(s)/folder(s) to the other folder on the HDD. After moving, the file(s)/folder(s) are deleted from the current location.

1. Follow steps 1-3 as shown left.
2. Select [Move] option then press ENTER.
   Move menu will appear.

3. You can select a album (folder) to move.
   1. After selecting a media then press ENTER.
      The album (folder) list appears.
   2. Select a folder.
      Also, you can create new album (folder). Select [New Album] option on the Move menu then press ENTER.
      “NONAME##” folder is created.
4. Select [Move] option then press ENTER to begin moving.

Note:

If a file size is more than 2GB, the move is not available.

Recording

About DVD recording

Notes:

- This recorder cannot make recordings on CD-R or CD-RW discs.
- Our company takes no responsibility for recording failure due to power outages, defective discs, or damage to the Recorder.
- Fingerprints and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs.

Disc types and recording formats, modes, and settings

This recorder can play various kinds of DVD discs: pre-recorded DVD-Video discs, DVD-RW, DVD-R, DVD+RW and DVD+R discs. The disc format for DVD-R, DVD+R, DVD+RW discs is always “Video format”—the same as pre-recorded DVD-Video discs. This means that once finalized, you can play a DVD-R, DVD+R, or DVD+RW in a regular DVD player.
By default, the DVD-RW disc format is Video format, though you can change this to Video Recording (VR) format, if required. (Reinitializing the disc will erase the contents of the disc.)
The recording mode is closely related to the disc format. If the disc format is Video Recording format, then the recording mode is VR mode; if the disc format is Video mode, then the recording mode is Video mode (except for DVD-Video, which is not recordable, and so does not have a recording mode). Within the recording modes (which are fixed for them whole disc) are the record settings. These can be changed as required for each recording and determine the picture quality and how much space the recording will take up on the disc.

About HDD recording

Recording to the internal hard disk drive (HDD) is basically similar to recording to a VR mode DVD-RW disc. You have the full choice of recording quality options, including the manual mode, and of course you can record, erase and re-record as many times as you like. The capacity of the hard disk drive means that you can store many hours of video on it, even in the higher quality recording modes. To help you organize the contents, the HDD is divided into ten genre. You can name and use these genres as you like—for example, you might have a genre for movies, another for TV shows, and one for camcorder recordings.

Notes:

- The maximum number of titles that can be recorded on the HDD is 255.
- Using the HDD allows you to record a maximum of 10 hours continuously.

Notes for recording

- The recording times shown are not exact because the recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.
- When recording a TV broadcast, if the reception is poor or the picture contains interference, the recording times may be shorter.
- If you record still pictures or audio only, the recording time may be longer.
- The displayed times for recording and time remaining may not always add up to exactly the length of the disc.
- The recording time available may decrease if you heavily edit a disc.
- If using a DVD-RW disc, make sure you change the recording format (Video mode or VR mode) before you record anything on the disc. See page 20 (Disc Format) for how to do this.
- When using a DVD-R or DVD+R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc.
- When using a DVD-RW disc in Video mode, recording time available will only increase if you erase the last title recorded on the disc.
- The Delete Title option in the Title List (Original) menu only hides the title, it does not actually erase the title from the disc and increase the recording time available (except for the last recorded title on a DVD-RW disc in Video mode).
- When using a DVD+R/RW, the recorder will execute the Menu-making operation to update the new title and editing when removing the disc from the recorder or turn off the recorder. So you must remove the disc after selecting the recorder’s operation mode to DVD mode.
- This unit can record TV program to HDD only. If you try to record TV program in DVD mode, the unit automatically change the mode to HDD then start recording.

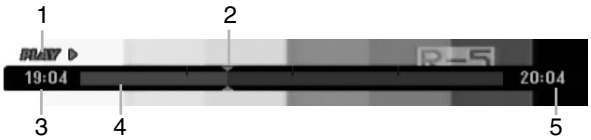
Timeshift HDD

Do not miss a scene from a live broadcast. If the telephone rings while you are watching your favorite live broadcast, just press “TIMESHIFT” and “PAUSE” before answering the phone. The timeshift function will be activated and the broadcast is then recorded for later viewing.
After the phone call or viewing interruption, press “PLAY” or “SCAN” to watch the program.
Press “STOP” to return to the live broadcast.

Timeshift (Pause, Live TV/Playback) Operation HDD

You can store a program in the HDD storage cache temporarily.

Press TIMESHIFT while watching a TV program.
The Progress Bar display appears on the screen as shown below. The Progress Bar changes to timeshift icon after 10 seconds.



1. Indicates playback mode.
2. Indicates current Timeshift position.
3. Indicates Timeshift start time.
4. Indicates Timeshift elapsed time.
5. Indicates the time that is one hour from Timeshift start time.

Tips:

- You can use trick play functions (Slow, Scan, etc.) during timeshift. Refer to Playback Operation on pages 23-26.
- You can edit the cached clip during Timeshift to retain the program on the HDD. Refer to Clip Record on the right.

Notes:

- If there is no free space on the HDD, the oldest timeshift section of the cache will be incrementally deleted.
- If no button is pressed for 10 hours, the Timeshift will stop automatically.
- If the TimeShift option in the Setup menu is set to [ON], the unit will starts this function automatically without pressing the TIMESHIFT button.
- If the HDD space is not sufficient while operating TimeShift function, it will be stopped automatically. Ensure the sufficient HDD space before using TimeShift function.

Marker Search in Timeshift mode

You can mark one in Timeshift mode. Press MARKER at the desired point during Timeshift.
Press SEARCH to recall the marked scene.

Clip Record HDD

You can edit during Timeshift to store the program on the HDD (Hard Disk Drive).

1. During Timeshift, use pause step, search and slow-motion to find the starting point.
2. Press ● REC at the starting point of the section you want to record.
   Progress of the edit is indicated in red on the Progress Bar.

3. Use pause step, search and slow-motion to find the ending point.
4. Press ● REC at the ending point of the section you want to stop recording.
   Normal playback continues.
5. Repeat steps 1 and 4 to make several Clip Records of a program.

6. Press STOP (■) to stop Timeshift.
   Confirm message will appear.
7. Use ◄ / ► to select [OK] then press ENTER. Or, press STOP(■) again.
   The current broadcast is displayed on the screen.

Notes:

- Selected sections are recorded on the HDD.
- If you want to stop Clip recording, press the STOP button. If you press POWER to stop Clip recording, the program may not be recorded on the HDD.
- Clip records cannot be made for sections lasting less than 5 seconds.

Jump to Start or End during Timeshift

1. Press ENTER during timeshift. The menu will appear.
2. Press ◄ and playback starts from the very beginning of the timeshift.
   Press ► and jumps to the very end of the timeshift then goes to pause mode.

To Exit the Timeshift

1. Press STOP to exit Timeshift function.
   Confirm message will appear.
2. Use ◄ / ► to select [OK] then press ENTER.
   The current broadcast is displayed on the screen.

Basic Recording from a TV HDD

Follow the instructions below to record a TV program. Recording starts immediately and continues until the disc is full or you stop the recording.

Note:
This unit can record only a mono audio content from the built-in tuner system.

1. Set a recording mode as necessary by pressing REC MODE repeatedly. (XP, SP, LP, EP or MLP)
2. Use PR/CH (+/-) buttons to select the TV channel to record.
3. Press ● REC once.
   Recording will start. (The REC indicator lights in the display window.)
   - Recording continues until you press STOP (■) or the HDD is full.
   - To record for a fixed length of time, see Instant Timer Recording on right.
4. Press STOP (■) to stop recording.

To Pause the Recording

1. Press PAUSE/STEP (❚❚) to pause recording.
2. When you want to continue recording, press PAUSE/STEP (❚❚).

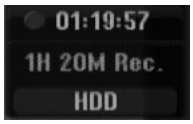
To record one TV program while watching another

1. Press TV/DVD to select the TV mode during recording. The TV indicator appears.
2. Using the TV, select the channel to be viewed.

Instant Timer Recording HDD

Instant Timer Recording allows you to make a recording easily of a preset length without using the program timer.

1. Follow steps 1-2 as shown left (Basic Recording from a TV).
2. Press ● REC repeatedly to select the recording time length.



   Recording starts after the first press. Each subsequent press increases the recording time within free space (maximum 240 minutes).
   The recording time is displayed on the TV screen.
   At the end of the recording, the recorder will stop recording and shut off.

Checking the Recording Time

Press ● REC once to check the recording time. The recalled setting will automatically return to the TV screen for a moment.
Also, remaining time of recording is shown in the display window.

To Extend the Recording Time

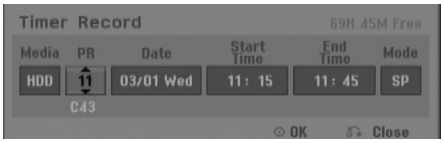
The recording time can be extended anytime by pressing ● REC.
Each subsequent press increases the recording time within free space (maximum 240 minutes).

Caution
If the recorder is unplugged (or there is a power failure) while the recorder is recording, the recording will be lost.

Timer Recording HDD

This recorder can be programmed to record up to 16 programs within a period of 1 month. For unattended recording, the timer needs to know the channels to be recorded, the starting and ending time.

1. Select [Timer Record] option in the [HOME] menu. The [Timer Record List] menu will appear.
2. Use ▲ / ▼ to select the [NEW] then press ENTER. The [Timer Record] menu will appear.



- [Media] The media option is not selectable.
- [PR] Choose a memorized program number, or one of the external inputs from which to record.
- [Date] Choose a date up to 1 month in advance or desired repeat (Monday ~ Friday, or Every Sun~Sat).
- [Start Time] Set the start time.
- [End Time] Set the end time.
- [Mode] Choose a record mode (XP, SP, LP, EP, MLP or AT).
  AT (Auto) mode determines how much disc time is available and switches record mode, if necessary, to complete recording the program.

3. Enter the necessary information for your timer recording(s).
   - ◄ / ► (left/right) – move the cursor left/right
   - ▲ / ▼ (up/down) – change the setting at the current cursor position
   - Press RETURN (↶) to exit the Timer Record menu.
   - Press ENTER after filling in all the program information.
   - Select [Timer Record] option in the [HOME] menu to display Timer Record List.
4. Press ENTER, the program will be memorized by the recorder.
   To check the programming, the Timer Record List will appear.
   Check field's "Rec. OK" on the Timer Record List indicates that the timer recording is programmed correctly.
5. Press RETURN (↶) to exit the Timer Record List.
6. Make sure that you press POWER to switch your unit to Standby.

Notes:

- The timer indicator lights in the display window when the recorder is in standby with the timer active. (Nothing is displayed while the [Power Save Mode] is ON.)
- You can stop a timer recording in progress. Press STOP and the confirm message will appear. Press ENTER to stop the recording or press RETURN (↶) to continue the recording.

Checking Timer Recording Details

Programming can be checked whenever the recorder is turned on.

Select [Timer Record] option in the [HOME] menu. The [Timer Record List] menu will appear.

- Use ▲ / ▼ to select a timer recording.
- Press ENTER to edit the selected program. Timer Record menu appears.
- Press CLEAR to delete the selected program from the Timer Record List.
- If you select [NEW] then press ENTER, you can program a new timer record.

Canceling a Timer Recording

You can clear a timer setting anytime before the recording actually starts.

- Use ▲ / ▼ to select a program you want to erase on the Timer Recorder List.
  Press CLEAR and the confirm message will appear.
  Press ENTER while the [OK] is selected to erase the recording.

Stopping a Timer Recording in Progress

After a timer recording has started, you can still cancel the program.

- You can stop a timer recording in progress. Press STOP and the confirm message will appear. Press ENTER to stop the recording or press RETURN (↶) to continue the recording.

Timer Recording Troubleshooting

Even though the timer is set, the recorder will not record when:

- There is no free space on the HDD.
- Power is turned on.
- There are already 255 titles recorded on the HDD.

You cannot enter a timer program when:

- A recording is already underway.
- The time you're trying to set has already passed.
- There are already 16 timer programs set.

If two or more timer programs overlap:

- The earlier program takes priority.
- When the earlier program finishes, the later program starts.
- If two programs are set to start at exactly the same time, the program entered first takes priority.

Recording from an External Input HDD

Recording from External Components

You can record from an external component, such as a camcorder or VCR, connected to any of the recorder's external inputs.

1. Make sure that the component you want to record from is connected properly to the recorder. See page 13-14.
2. Press AV/INPUT repeatedly to select the external input to record from.
   - Tuner: Built-in tuner
   - AV1: AV1 scart jack mounted on back panel
   - AV2: AV2 DECODER scart jack mounted on back panel
   - AV3: AV IN 3 (VIDEO, AUDIO (L/R)) mounted on front panel
3. Select the recording mode as necessary by pressing REC MODE repeatedly. (XP, SP, LP, EP or MLP)
4. Press ● REC once.
   Recording will start. (The REC indicator lights in the display window.)
   - Recording continues until you press STOP (■) or the HDD is full.
   - To record for a fixed length of time, see "Instant Timer Recording" on page 35.
5. Press STOP (■) to stop recording.

Note:

If your source is copy-protected using CopyGuard, you will not be able to record it using this recorder. See Copyright on page 46 for more details.

Simultaneous recording and playback

Playback another title during recording

While the recording is in progress, you can playback a source from other media at the same time.

1. Start recording.
2. Press HOME to display the Home Menu screen.
3. Use the ▲ / ▼ / ◄ / ► and ENTER buttons to select a media type that you want to play.
4. Start Playback.
   The recording will continue while playing the media from the other mode.

   Notes:
   - You cannot use simultaneous playback and recording while copying, dubbing or timer recording.
   - You cannot edit programs during simultaneous recording and playback.

Time Slip HDD

You can play back the currently recording title.

1. Start HDD recording.
2. Press PLAY (►).
   The playback starts and the recording will continue while playing back.
   - You can use PAUSE (❚❚) and SCAN (◄◄ / ►►) buttons for pause, scan, slow-motion during playback.
3. Press STOP (■).
   The playback will stop then returns to the current recording position.

   Note:
   Playback cannot be started until 3 seconds after recording starts.

Editing

Title List and Chapter List Menu Overview

Using the Title List menu you can edit video content. The editing features available in the Title List menu depend on whether you are editing video on DVD, or the HDD, and whether you're editing Original content, or a Playlist.

There are two ways to edit VR mode DVD-RW discs. You can directly edit the Original content of the disc, or you can create and edit a Playlist. The Playlist doesn't actually change any of the content on the disc, but just controls how the content is played back.

Editing material recorded on the HDD is similar to editing the Original content of a VR mode DVD-RW, with similar commands for erasing and naming titles, as well as fine control over the content of chapters within titles for DVD disc.

Note:
During recording, if you display the Title List menu for the HDD, some of the titles may appear with a mark. These titles were recorded with a Line Input setting different to the current setting of the recorder. During recording, these titles cannot be played.

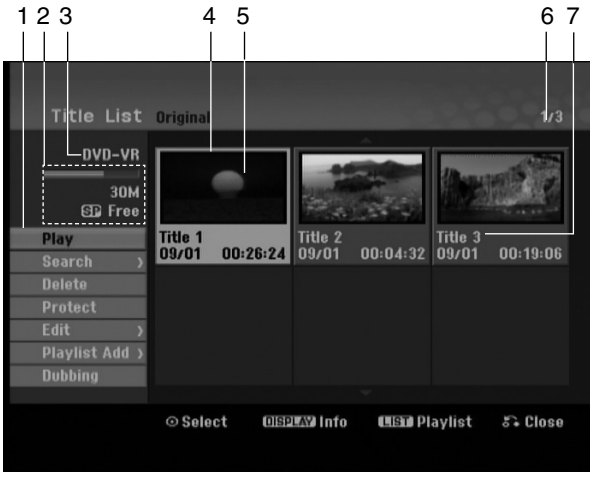
1. Press MENU/LIST to display the Title List menu. Playback should be stopped when you do this.
   - You can also access it using HOME menu, select [MOVIE] option then select [HDD] or [DVD] option and press ENTER.
   - When selecting titles, use the ▲ / ▼ buttons to display the previous/next page if there are more than six titles.
   - If you are editing a VR mode disc, press MENU/LIST to switch between Original and Playlist menu.

On the left side of the screen are the menu options. The main part of the screen shows thumbnails of the titles (or chapter) on the DVD or HDD. You can change these thumbnails using the THUMBNAIL button—see Changing Title Thumbnails on page 39.

Press DISPLAY to display the information of selected title on the Title List menu.

After selecting a title or chapter on the Title List or Chapter List menu, then press ENTER. The menu options appears on the left side of the menu. Use ▲ / ▼ to select a option then press ENTER to confirm your selection.

2. To exit the Title List menu, press RETURN (↶) repeatedly.



1. Menu options: To display menu option, select a title or chapter then press ENTER. The options displayed differ depending on the disc type.
   - [Combine] Combines two chapters into one (page 44).
   - [Delete] Deletes the title or chapter. (page 41)
   - [Delete Part] Deletes a part of the Title (page 41).
   - [Divide] Divides a title into two (page 43).
   - [Dubbing] Copies the title to another media. (page 47)
   - [Full Play] Starts playback of the selected title including the hidden chapters.
   - [Hide (Show)] Hides (or Shows) the selected title or chapter. (page 45)
   - [Move] Moves a chapter on the Chapter List-Playlist menu to a position on the menu. (page 45)
   - [Play] Start playback of the selected title or chapter. The hidden titles and chapters on the DVD+R/RW cannot be play back.
   - [Playlist Add] Adds the title or chapter to the Playlist. (page 40)
   - [Protect] Protects accidental recording, editing or deleting of the title. (page 45)
   - [Rename (Title Name)] Edits the title name. (page 42)
   - [Search]
     - [Chapter]; Displays Chapter List of the Title.
     - [Time]; Search time for you want start point of the title. (page 42)
   - [Sort] Lists the programs on the Title List menu by Date, Title, or Category. (page 43)
   - [Title] Displays Title List of the chapter.
2. Indicates the record mode, free space, and elapsed time progress bar.
3. Current media.
4. Currently selected title.
5. Thumbnail.
6. Shows the selected title number and total number of titles.
7. Shows the title name, recorded date, and recording length.

HDD, VR Mode: Original and Playlist Editing

Titles, Chapters and Parts

Titles in the disc's original content contain one or more chapters. When you insert a disc's title into the Playlist, all the chapters within that title also appear. In other words, chapters in the Playlist behave exactly as chapters on a DVD-Video disc do. Parts are sections of Original or Playlist titles. From the Original and Playlist menu you can add or delete parts. Adding a chapter or title to the Playlist creates a new title made up of a section (ie., chapter) of an Original title. Deleting a part removes part of a title from the Original or Playlist menu.

Caution

- When editing using the Delete, Add and Move functions, the start and end frames may not be exactly as set in the start and end point display.
- During Playlist playback, you may notice a momentary pause between edits. This is not a malfunction.

Is editing a DVD like editing a video tape?

No. When you edit a video tape you need one video deck to play the original tape and another to record the edits. With DVD, you edit by making a 'Playlist' of what to play and when to play it. On playback, the Recorder plays the disc according to the Playlist.

About word 'Original' and 'Playlist' -RWVR

Throughout this manual, you will often see the words Original and Playlist to refer to the actual content and the edited version.

- **Original:** content refers to what's actually recorded on the disc.
- **Playlist:** content refers to the edited version of the disc — how the Original content is to be played.

Adding Chapter Markers

HDD -RWVR +RW +R

You can create chapters within a title by inserting chapter marks at the desired points.

During playing back, at the point you want to start a new chapter, press CHP ADD.
A chapter marker icon appears on the TV screen.

Note:
Chapter markers are inserted at regular intervals automatically. You can change this interval from the Initial Setup menu (see "Auto Chapter" on page 20).

Changing the Title Thumbnails

HDD -RWVR +RW +R

Each title displayed in the Title List menu is represented by a thumbnail picture taken from the start of that title or chapter.
If you prefer, select a different still picture from within a title.
Press THUMBNAIL to make the currently displayed picture the one that appears in the Title List menu.
The still picture that you choose appears in both the Original or Playlist menu.

Making a New Playlist -RWVR

Use this function to add an Original title or chapter to the Playlist. When you do this, the whole title or chapter are put into the Playlist (you can delete bits you don't need later — see Deleting an Original or Playlist title/chapter on page 41).

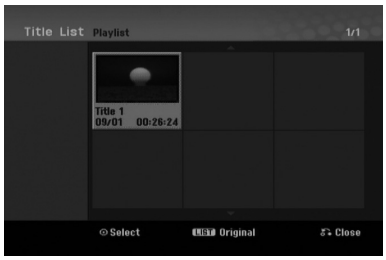
The title appears in the Playlist complete with the chapter markers that appear in the Original. However, if you add more chapter markers to the Original later, these are not automatically copied over into the Playlist title.

You can add up to 999 chapters to one disc .

1. Choose a title or chapter on the Title List-Original menu or Chapter List-Original menu to put into the Playlist, then press ENTER.
   The menu options appears on the left side of the menu.

2. Use ▲ / ▼ to select [Playlist Add] option then press ENTER.

3. Select [New Playlist] then press ENTER.
   The new title appears in the updated Playlist. All chapters of the title are added to the Playlist.



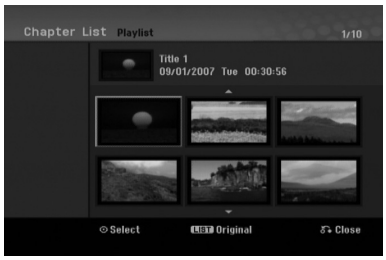
Adding Additional Title/Chapters to the Playlist -RWVR

You can add an Original title or chapter to add to a Playlist title even if it is already registered.

1. Choose a title or chapter on the Title List-Original menu or Chapter List-Original menu to put into the Playlist, then press ENTER.
   The menu options appears on the left side of the screen.

2. Use ▲ / ▼ to select [Playlist Add] from menu options then press ENTER.

3. Choose a Title List-Playlist that is already registered to insert a title or chapter, then press ENTER.
4. Repeat steps 1-3 to add additional title or chapter on the Playlist.
   You can view the added chapters on the Chapter List-Playlist menu.



5. Press RETURN (↶) to exit, or MENU/LIST to go back to the Title List-Original menu.

Deleting an Original or Playlist Title/Chapter

When you erase a title or chapter from the Playlist menu, you only remove it from the Playlist; the title/chapter remains in the Original menu.

If you choose to delete a title or chapter from the Original (title/chapter) menu, the title or chapter is actually deleted from the disc and the remaining time available for recording increases. Titles/chapters deleted from the Original are also removed from the Playlist.

Note:

It may not be possible to delete chapters that are less than 5 seconds long.

1. Use ◄ / ► / ▲ / ▼ to choose a chapter or title you want to delete on the Title List or Chapter List menu then press ENTER.
   The menu options appears on the left side of the screen.

   Selecting multiple titles on HDD

   1. *Press MARKER.*
      A check mark appears on the title.
      Press MARKER again to cancel the marked title.
   2. *Repeat step 1 to mark additional title.*
      You can add the titles up to 10 titles.

2. Select [Delete] option from the options on the menu.

   Example: Title List (HDD)

3. Press ENTER to confirm.
   The confirm message for deleting will appear.
4. Use ◄ / ► to select [OK] then press ENTER.
   The selected chapter or title is deleted.
   After pressing ENTER, the new, updated menu is displayed.
5. Repeat steps 1 - 4 to continue to delete from the menu.
6. Press RETURN (↶) repeatedly to exit the menu.

Notes:

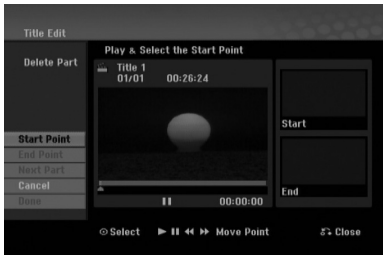
- When DVD+RW recording, the deleted title's name is changed to 'Deleted Title'.
- If more than two titles are repeatedly deleted, the titles are combined into one.
- When you are deleting a title or chapter, only the last one on DVD+RW increases remaining recording time.

Deleting a Part HDD -RWVR

You can delete a part which you do not want in the title.

1. Use ◄ / ► / ▲ / ▼ to choose a title you want to delete on the Title List menu then press ENTER.
   The options appears on the left side of the menu.
2. Select [Delete Part] in the [Edit] option then press ENTER. Edit (Delete Part) menu appears on the TV screen. [Start Point] icon is highlighted.

   Example: Edit (Delete Part) (HDD)



3. Use play, pause step, search and slow-motion to find the starting point.
4. Press ENTER at the starting point of the section you want to delete.
   'End Point' icon is highlighted.
   The part is indicated on the Progress Bar.
5. Use play, pause step, search and slow-motion to find the ending point.
6. Press ENTER at the ending point of the section you want to delete.
   You can cancel the selected point, use ▲ / ▼ to select [Cancel] icon then press ENTER.

Tip:

With HDD recordings, you can delete additional part. Select [Next Part] icon on the menu then press ENTER, then repeat steps 3-6.

7. If you finish to edit, select [Done] icon then press ENTER.
   The confirm message for deleting will appear.
   Use ◄ / ► to select [OK] then press ENTER.
   The selected part is deleted from the title and Title List menu appears.

Note:

This function is not available for the titles that are less than 3 seconds long.

Naming a Title

You can name the titles. The names can be up to 32 characters long.

1. Choose the title you want to name on the Title List menu, then press ENTER.
   The menu options appears on the left side of the menu.
2. Use ▲/▼ to select [Rename] or [Title Name] option then press ENTER.
   Keyboard menu appears.

3. Enter a name for the title. Use ◄ / ► / ▲ / ▼ to select a character then press ENTER to confirm your selection.
   - Use MENU/LIST button to change keyboard type.
   - **OK:** Select to finish.
   - **Cancel:** Cancels all entered characters.
   - **Space:** Inserts a space at the cursor position.
   - **Delete:** Deletes the previous character at the cursor position.
   - ◄ / ►**:** Moves cursor to left or right.

   Tip:
   Remote control buttons for entering a name
   PLAY (►): Inserts a space at the cursor position.
   ❚❚ (PAUSE/STEP): Deletes the after character at the cursor position.
   ■ (STOP), CLEAR: Deletes the previous character at the cursor position.
   I◄◄ / ►►I: Moves cursor to left or right.
   Numbers (0-9): Enters the corresponding character at the cursor position.

   Tip:
   You can add the genre for HDD title name.
   If you set the genre for the title, you can easily find the title on the relevant genre folder of HDD title list menu.

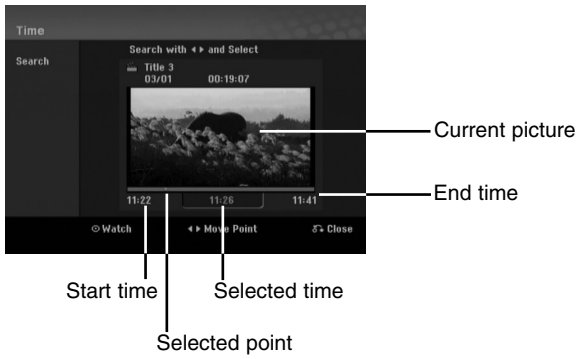
4. Choose OK then press ENTER to fix the name and return to the previous menu screen.
5. Press RETURN (↶) repeatedly to exit the menu.

Notes:
- Names can be up to 32 characters long.
- For discs formatted on a different recorder, you will see only a limited character set.
- When recording on DVD-R, DVD+R or DVD+RW discs, the entered name is displayed on the DVD player only after finalization.

Time Search HDD -RWVR -RWVideo +RW -R +R

You can select start point of the title.

1. Use ◄ / ► / ▲ / ▼ to choose a title on the Title List menu then press ENTER.
   The options appears on the left side of the menu.
2. Select [Time] option then press ENTER.
   [Search] menu appears on the TV screen.
   Example: Title List (HDD)



3. Use ◄ / ► to find the point you want to start.
   The point increase 1 minute step.
   If you press and hold ◄ / ► then the point increase 5 minute step.
4. Press ENTER to start selected point.

Sorting the Title List HDD

This function allows you to access show listings organized by Date, Title, or Category on the Title List-HDD menu. So you can find title you want to watch easily.

1. Choose any title on the Title List-HDD menu, then press ENTER.
   The menu options appears on the left side of the menu.
2. Use ▲/▼ to select [Sort] option then press ENTER.
   Sort options appears.
3. Use ▲/▼ to select [Date], [Title] or [Category] option then press ENTER.
   After pressing ENTER, the sorted menu is displayed.

Divide One Title Into Two

+RW

Use this command to split a title up into two new titles.

1. On the Title List menu, select a title you want to divide then press ENTER.
   The menu options appears on the left side of the screen.
2. Select [Divide] option.

3. Press ENTER.
   Edit (Divide) menu appears. [Divide] option is highlighted.

4. Use play, pause step, search and slow-motion to find the point you want to divide the title.
5. Select [Divide] option then press ENTER at the point.
   To reset the point, select [Cancel] option then press ENTER. Repeat from step 4.
6. Choose [Done] option then press ENTER to fix the dividing point.
   The title is divided into two new titles. It take up to 4 minutes to divide.

Note:
You cannot select dividing point less than 3 seconds.

Combining Two Chapters Into One HDD -RWVR +RW +R

Use this function to combine two adjacent chapters into one.

1. On the Chapter List menu, select the second chapter of the two chapters you want to combine then press ENTER.
   The menu options appears on the left side of the screen.
2. Use ▲ / ▼ to select [Combine] option.
   The combine indicator appears between the two chapters you want to combine.

Example: Chapter List (HDD)

3. Press ENTER.

Notes:

This function is not available when;

- There is only one chapter whthin the title.
- The first chapter is selected.
- The chapters that you want to combine are created by deleting a part from an Original title.
- The chapters that you want to combine are created from different titles.
- One of the playlist chapter that you want to combine has been moved.

Additional functions for the recordable DVD discs

Using the Title List menu, you can use the disc setting functions without entering the setup menu.

1. On the DVD Title List menu, use ◄ / ► / ▲ / ▼ to select the [Disc] option then press ENTER.

2. Use ▲ / ▼ to select an option then press ENTER to confirm your selection.
   - [Disc Format] Format the inserted disc.(page 21)
   - [Finalize] Finalize the inserted disc.(page 21)
   - [Unfinalize] Unfinalize the inserted disc. (page 21)
   - [Disc Label] Use this to enter a name for the disc. This name appears when you load the disc and when you display disc information on-screen.(page 21)
   - [Protect] Use this to prevent accidental recording, editing, deleting of the inserted disc.(page 21)
   - [Unprotect] Release the protect function.

Moving a Playlist Chapter -RWVR

Use this function to re-arrange the playing order of Playlist chapters on the Title List-Playlist menu.

Note:
This function is not available if there is only one chapter.

1. Select a chapter on the Chapter List-Playlist menu.
2. Press ENTER.
   The menu options appears on the left side of the menu.
3. Use ▲ / ▼ to select [Move] option from Playlist options then press ENTER.

4. Use ◄ / ► / ▲ / ▼ to choose the place you want to move the chapter to then press ENTER.
   After pressing ENTER, the updated menu is displayed.

Hide a Chapter/Title +RW +R

You can skip playing chapters or titles without deleting from the disc.

1. Use ▲ ▼ ◄ ► to choose a chapter or title you want to hide on the Title List or Chapter List menu, then press ENTER.
   Options appear on the left side of the screen.
2. Select [Hide] option.
   Example: Title List (DVD+RW)

3. Press ENTER to confirm.
   The chapter's or title's thumbnail will dim.

Tip
If you select a hidden chapter or title on the Title List or Chapter List menu, you can 'show' it by choosing [Show] option on the menu. After doing that, you are able to see the chapter or title.

Protect a Title +RW +R -RWVR

Use this function to protect against accidental recording, editing or deleting of the title.

1. Press MENU/LIST to display the Title List menu.
2. Use ▲ ▼ ◄ ► to choose a title you want to protect then press ENTER.
   Options appear on the left side of the screen.
3. Select [Protect] from the options.

4. Press ENTER to confirm.
   The lock mark will appears on the title's thumbnail.

Tip
If you select a title that has already been protected on the Title List menu, you can 'unprotect' it by choosing [Unprotect] option from the Title List menu options. After doing that, you can edit and delete the title.

Dubbing

Before Dubbing

Use the copying features of this recorder to:
- Back up important recordings stored on the HDD to a DVD.
- Make a DVD copy of a recording on the HDD to play in another player.
- Transfer video from a DVD to the HDD for editing.
- Transfer edited video from the HDD to DVD.

The simplest method of copying is to use the One Touch Copy feature. Using this you can very simply copy the title that's currently playing from HDD to DVD, or the other way around.

Note:
If the title's length is less than 5 seconds, the dubbing is not available. (from HDD to DVD)

Restrictions on copying

Some video material is copy-once protected: Such material cannot be copied to HDD or DVD.

You can identify copy-once protected material during playback by displaying disc information on-screen.

- NTSC format signals from the analog inputs is not recorded correctly with this recorder.
- Video signals in SECAM format (from the built-in TV tuner or from the analog inputs) are recorded in PAL format.

What is 'CPRM'?

CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.
CPRM recordings can only be made on DVD-RW discs formatted in VR mode discs, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Copyright

- Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the area in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rights owner.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision corporation. Reverse engineering or disassembly is prohibited.
- CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 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 625p HDD/DVD RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Fast copying (Maximum 4x)

Copying between DVD and HDD is a completely digital process and therefore involves no loss of quality in the audio or video. This means that you can transfer back and forth without having to worry about the quality getting worse with each copy 'generation'. It also means that copying can be carried out at the maximum speed possible.
When copying from HDD to DVD, the speed of copying depends on the recording mode and the kind of DVD disc you're using.

Minimum fast copying times
The table below shows the minimum HDD to DVD copying time for 2 hours of video recorded with SP mode.

Disc Type	Disc Speed	Copying Time (Record Speed)
DVD-R / DVD+R	16x	13.5 min. (4x)
DVD-R / DVD+R / DVD+RW	8x	13.5 min. (4x)
DVD-RW	6x	13.5 min. (4x)
DVD-R / DVD+R DVD-RW / DVD+RW	4x	13.5 min. (4x)
DVD+R / DVD+RW	2.4x	22 min. (2.4x)
DVD-R / DVD-RW	2x	26.5 min. (2x)

Notes:
- All times in the above table are approximate.
- Actual copy speed varies with the part of the disc being recorded.
- There may be cases where even 4x/6x/8x/16x compatible discs do not copy at full speed.
- Fast copying may not be possible when using disc initialized on another recorder.

Dubbing from HDD to DVD

1. On the Title List-HDD menu, select a title you want to dub then press ENTER.

   Selecting multiple titles on HDD

   1. *Press MARKER.*
      A check mark appears on the title.
      Press MARKER again to cancel the marked title.
   2. *Repeat step 1 to mark additional title.*
      You can add the titles up to 10 titles.

   The menu options appears on the left side of the screen.

2. Use ▲ / ▼ to select [Dubbing] option then press ENTER.
   Dubbing menu appears.

3. Use ◄ / ► to select record mode (XP, SP, LP, EP, MLP, AUTO or Fast), then press ▼.
   'Start' icon is highlighted.
   Fast: See page 46 for more information on Fast copying.
4. When [Start] icon is highlighted, press ENTER.
   Dubbing starts.
5. To stop dubbing at any other time, press STOP (■).

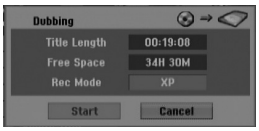
Notes:

- The recording time of [Fast] mode could be varied depending on data size of source.
- Stopping dubbing in [Fast] mode partway through will cancel the recording and any data recorded up to that point will be lost.
- If the remaining space on the disc is insufficient, the [Fast] mode is not available.
- When you dub the title on the HDD to VR mode DVD-RW disc, the [Fast] mode is not available for edited HDD title.

Dubbing from DVD to HDD

1. On the Title List menu, select a title you want to dub then press ENTER.
   Menu options appears on the left side of the screen.

2. Use ▲ / ▼ to select [Dubbing] option then press ENTER.
   Dubbing menu appears.



3. Use ◄ / ► to select record mode (XP, SP, LP, EP, MLP, AUTO or Fast), then press ▼.
   'Start' icon is highlighted.
   Fast: Only available when copying VR mode disc to HDD. (See page 46 for more information on Fast copying.)
4. When [Start] icon is highlighted, press ENTER.
   Dubbing starts.
5. To stop dubbing at any other time, press STOP (■).

Notes:

- Depending on the conditions of the recording equipment or the disc itself, the dubbing may not be capable.
- Stopping dubbing in [Fast] mode partway through will cancel the recording and any data recorded up to that point will be lost.
- The recording time of [Fast] mode can take up to 26.5 minutes.

One Touch Copy (HDD to DVD)

The One Touch Copy feature copies the currently playing title from the HDD to DVD. The whole title is copied, regardless of where in the title you start copying. The copy will be made in the recording mode (XP, SP, LP, EP or MLP) that is currently set.

For One Touch Copy to work, make sure that a recordable DVD disc is loaded.

During HDD playback, press DUBBING to copy the current title to DVD.
The on-screen display indicates that the title is being copied. Playback continues while copying.

- You cannot use the One Touch Copy function to copy a title if any part of the title is copy-once protected.

One Touch Copy (DVD to HDD)

One Touch Copy from DVD to HDD copies a single title to the HDD in real time. When you start copying, playback jumps back to the start of the title, then continues through to the end of the title, when recording automatically stops. The copy will be made in the recording mode (XP, SP, LP, EP or MLP) that is currently set.

During DVD playback, press DUBBING to copy the current title to HDD.
Playback starts again from the beginning of the current title. The on-screen display indicates that the title is being copied.

Notes:

- Video CD cannot be copied to HDD.
- The copying stops when then recorder detects a badly scratched or copy protected part.
- If some part of the title being copied is copy-protected, copying will start, but the copy-protected portions will not be copied.
- During Playlist title's playback, One Touch Copy is not available.

Tip:

To stop dubbing at any other time, press STOP (■).

Reference

Additional Information

Viewing Title List menu displayed on other DVD Recorders or Players

+RW **+R**

You can view the Title List menu displayed on the other DVD player that is capable of playing DVD+RW or DVD+R discs.

1. Insert DVD+R or DVD+RW disc recorded already.
2. Press TITLE in play or stop mode.
   Title List menu will appear as shown below.

   Tip
   You can remove the Title List menu by pressing STOP (■).

3. To play back a title, select the title you want then press ENTER or PLAY (►).

Playing Your Recordings on Other DVD Players (Finalizing a Disc)

Most regular DVD players can play finalized discs recorded in Video mode, finalized DVD+R or DVD+RWs. A small number of players can also play DVD-RW discs recorded in VR mode, finalized or not. Check the manual that came with the other player to check what formats of discs it will play.

Finalizing 'fixes' the recordings and editings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive.
Finalizing a Video mode disc creates a menu screen for navigating the disc. The menu can be accessed by pressing MENU/LIST or TITLE.
To finalize a disc, refer to "Finalize" on page 21.

Notes:

- Unfinalized DVD+RW is playable on regular DVD players.
- The edited contents of a DVD+RW disc is compatible on regular DVD players only after finalization.
- Any edited contents of the DVD+R disc are not compatible on regular DVD players. (Hide, chapter combine, added chapter mark, etc.)
- How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

Language Codes

Use this list to input your desired language for the following initial settings:
Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

Area Codes

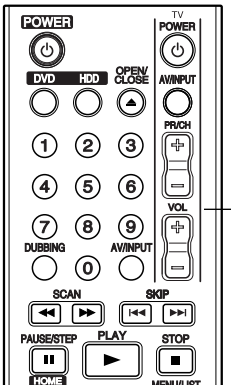
Choose an area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Heard and McDonald Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hungary	HU	New Zealand	NZ	Sweden	SE
Chile	CL	India	IN	Nigeria	NG	Switzerland	CH
China	CN	Indonesia	ID	Norway	NO	Thailand	TH
Colombia	CO	Israel	IL	Oman	OM	Turkey	TR
Congo	CG	Italy	IT	Pakistan	PK	Uganda	UG
Costa Rica	CR	Jamaica	JM	Panama	PA	Ukraine	UA
Croatia	HR	Japan	JP	Paraguay	PY	United States	US
Czech Republic	CZ	Kenya	KE	Philippines	PH	Uruguay	UY
Denmark	DK	Kuwait	KW	Poland	PL	Uzbekistan	UZ
Ecuador	EC	Libya	LY	Portugal	PT	Vietnam	VN
Egypt	EG	Luxembourg	LU	Romania	RO	Zimbabwe	ZW
El Salvador	SV			Russian Federation	RU		

Controlling Your TV with the Supplied Remote Control

You can control the sound level, input source, and power switch of your LG TV with the supplied remote.

You can control your TV using the buttons below.



TV Control Buttons

By pressing	You can
POWER	Turn the TV on or off.
AV/INPUT	Switch the TV's input source between the TV and other input sources.
PR/CH +/–	Scans up or down through memorized channels.
VOL +/–	Adjust the volume of the TV.

Controlling other TVs with the remote

You can control the sound level, input source, and power switch of non-LG TVs as well. If your TV is listed in the table below, set the appropriate manufacturer code.

1. While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (see the table below).
2. Release TV POWER button.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code Number
LG / GoldStar	1 (Default), 2
Zenith	1, 3, 4
Samsung	6, 7
Sony	8, 9
Hitachi	4

Notes:

- Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Solution
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
No picture.	• TV/DVD mode for the recorder is set to TV.	• Press TV/DVD on the remote control repeatedly to choose DVD mode. TV indicator disappears in the display window.
	• The TV is not set to receive recorder signal output.	• Select the appropriate video input mode on the TV so the picture from the recorder appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable securely.
	• The connected TV power is turned off.	• Turn on the TV.
No sound.	• The equipment connected with the audio cable is not set to receive recorder signal output.	• Select the correct input mode on the audio receiver so you can listen to the sound from the recorder.
	• The audio cables are not connected securely.	• Connect the audio cable securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The audio connecting cord is damaged.	• Replace it with new one.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
The recorder does not start playback.	• No disc is inserted.	• Insert a disc. (Check that the disc indicator in the display window is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system, and regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
The picture from the external input is distorted	• The video signal from the external component is copy-protected.	• You cannot connect via this recorder. Connect the component directly to your TV.
Some channels are skipped over when using PR/CH (+/-).	• Those channels are not stored in the recorder.	• Restore channels. See “Program Edit” on page 16.
The picture or sound of broadcasting channel is weak or missing.	• Antenna or cables are loose.	• Tighten connections or replace cable.

Symptom	Cause	Solution
Cannot play a disc recorded using this recorder on another player.	• The disc was recorded in Video mode.	• Finalize the disc. (page 21)
	• Some players will not play even a finalized disc recorded in Video mode.	• No solution.
	• The disc was recorded in VR mode,	• The other player must be RW compatible in order to play it.
	• Discs recorded with copy-once material cannot be played on other players.	• No solution.
Cannot record or did not record successfully.	• The remaining blank space on the disc is insufficient.	• Use another disc.
	• The source you are trying to record is copy protected.	• You cannot record the source.
	• When setting the recording channel, the channel is tuned on the TV's own tuner.	• Select the channel on the recorder's built-in TV tuner.
	• When recording to a Video mode disc, programs that are copy-once protected cannot be recorded.	• Use a VR mode formatted disc for copy-once material.
Timer recording is not possible.	• Clock in recorder is not set to correct time.	• Set clock to correct time. See "Clock Set" on page 17.
	• Timer has been programmed incorrectly.	• Reprogram Timer. See "Timer Recording" on page 36.
	• Timer record indicator light does not appear after programming timer.	• Reprogram Timer.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the recorder.	• Point the remote control at the remote sensor of the recorder.
	• The remote control is too far from the recorder.	• Operate the remote control within 7 m.
	• There is an obstacle in the path of the remote control and the recorder.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.

Resetting the recorder

If you observe any of the following symptoms...

- The unit is plugged in, but the power will not turn on or off.
- The front panel display is not working.
- The recorder is not operating normally.

...you can reset the recorder as follows:

- Press and hold the POWER button for at least five seconds. This will force the unit to power off then turn the unit back on.
- Unplug the power cord, wait at least five seconds, and then plug it in again.

Specifications

General

Power requirements	AC 200-240V, 50/60 Hz
Power consumption	30W
Dimensions (approx.)	430 X 54 X 285 mm (w x h x d) without foot
Net weight (approx.)	3.5 kg
Operating temperature	5˚C to 35˚C
Operating humidity	5 % to 90 %
Television system	PAL I, B/G, I/I, SECAM D/K, K1 color system
Recording format	PAL

Recording

Recording format	DVD Video Recording, DVD-VIDEO
Recordable media	HDD (RH265: 80GB, RH266: 160GB), DVD-ReWritable, DVD-Recordable, DVD+ReWritable, DVD+Recordable
Recordable time	DVD (4.7GB): Approx. 1 hour (XP mode), 2 hours (SP mode), 4 hours (LP mode), 6 hours (EP mode), 11 hours (MLP mode) HDD (RH265: 80GB, RH266: 160GB, MPEG2 Recording): Approx. 18/37 hours (XP mode), 37/75 hours (SP mode), 75/149 hours (LP mode), 112/223 hours (EP mode), 233/477 hours (MLP mode)
Video recording format	
Sampling frequency	27MHz
Compression format	MPEG 2 (VBR support)
Audio recording format	
Sampling frequency	48kHz
Compression format	Dolby Digital

Playback

Frequency response	DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz DVD (PCM 96 kHz): 8 Hz to 44 kHz
Signal-to-noise ratio	More than 100 dB (AUDIO OUT connector)
Harmonic distortion	Less than 0.008% (AUDIO OUT connector)
Dynamic range	More than 95 dB (AUDIO OUT connector)

Inputs

ANTENNA IN	Antenna input, 75 ohms
VIDEO IN	1.0 Vp-p 75 ohms, sync negative, RCA jack x 1 / SCART x 2
AUDIO IN	2.0 Vrms more than 47 kohms, RCA jack (L, R) x 1 / SCART x 2

Outputs

COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1 (P_B)/(P_R) 0.7 V (p-p), 75 Ω, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 / SCART x 2

Accessory

Scart cable 1
Remote control 1
RF Coaxial Cable 1
Batteries 2

- Design and specifications are subject to change without notice.

P/NO : MFL36926573