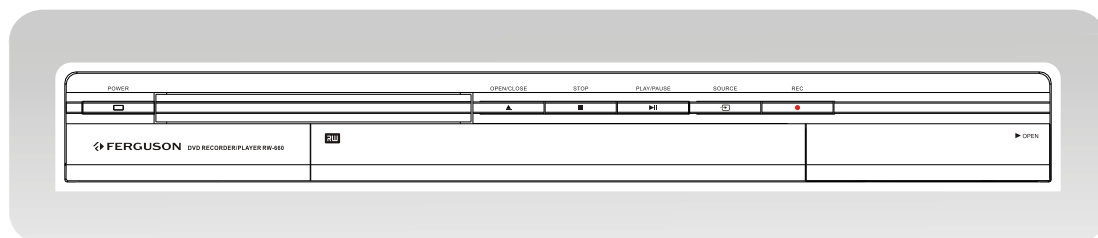




## ***DVD RECORDER/PLAYER***

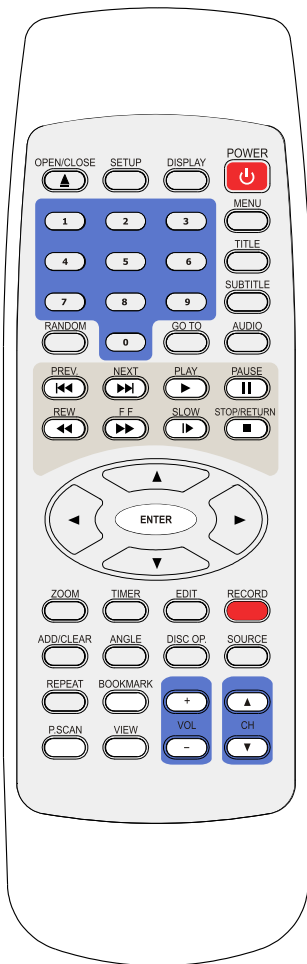


***PLEASE READ THIS MANUAL CAREFULLY BEFORE USE.***

# ***RW-660*** ***USER MANUAL***

## REMOTE CONTROL

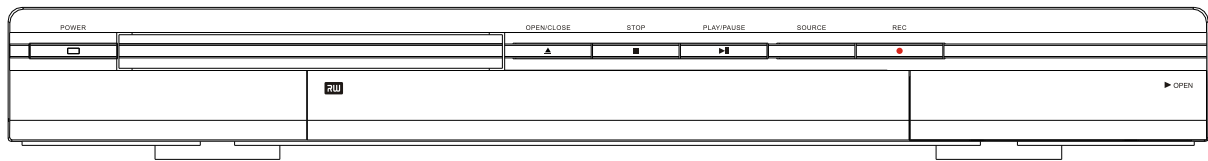
Please refer to the relevant chapters for detailed descriptions of these buttons:








- RECORD** Record TV program or AV signal from external signal source. In recording status, every pressing on this button will add 30 minutes' recording time.
- EDIT** Access the title editing menu.
- TIMER** Set/change the schedule of time recording
- POWER** Switch on/off the appliance.
- 0---9** Number buttons.
- TITLE** Access the title menu.
- SUBTITLE** Change subtitle language.
- DISC OP** Manage DVD±r/rw discs.
- ADD/CLEAR** Select current item, or clear the time recording event.
- ZOOM** Zoom in/out current picture.
- ENTER** Confirm current selection or input. Press this button twice to access playing control menu or recording control menu.
- MENU** Access disc menu.
- SETUP** Access system setup menu.
- PSCAN** Switch the scanning mode of video output (Progressive/ Interlace).
- AUDIO** Change audio language.
- ANGLE** Change camera angle (must be supported by the disc).
- REPEAT** Set repeat functions.
- GO TO** Go to desired title/chapter/time and play.
- SOURCE** Select external signal source.
- OPEN/CLOSE** Open/close the disc tray.
- VOL +/-** Adjust the audio output volume.
- DISPLAY** Show and adjust the playback status.
- RANDOM** Switch the playback sequence between Normal mode and Random mode.
- STOP/RETURN** ■ Press for the first time to stop playback/recording, press for the second time to return to root menu (only for VCD discs)
- PAUSE II** Stop playing/recording temporarily.
- PLAY ►** Play discs.
- ◀ ▶** Left/right cursor button.
- ▲ ▼** Up/down cursor button.
- ◀◀ ▶▶** Previous/next title or chapter.
- CH ▲ ▼** Select TV channel.
- ▶▶** Fast forward, there are four modes: 2X, 4X, 16X, 32X.
- ◀◀** Fast reverse, there are four modes: 2X, 4X, 16X, 32X.
- |▶** Slow forward, there are three modes: 1/2, 1/4, 1/8.
- BOOKMARK** This button is invalid.
- VIEW** This button is invalid.

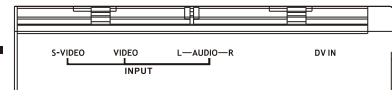


## FRONT PANEL



-  POWER: Power on/off.
-  EJECT: Open/close the disc tray.
-  REC: Record current TV program, AV or DV signals from external signal sources.
-  PLAY/PAUSE: Press to start playback or suspend playback.
-  STOP: Stop playing/recording.
- SOURCE: Switch input signal source.

### Front connections(open Flap-Door at right side of the set)



**S-VIDEO:** S-Video input jack, use to connect to a SVHS/Hi8 video camera or SVHS/Hi8 VCR.

**VIDEO:** Video input jack, use to connect to a SVHS/Hi8 video camera or SVHS/Hi8 VCR.

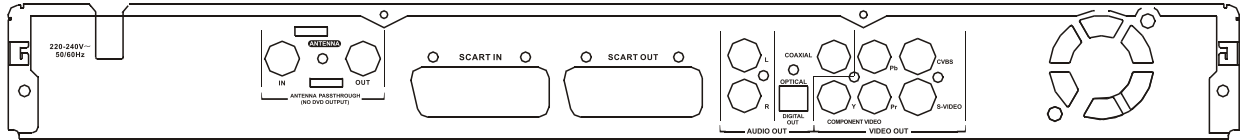
Note: The signal from S-VIDEO input jack has higher priority than the signal from VIDEO input jack.

**L-AUDIO-R:** Audio input jacks, use to connect to video camera or VCR.

**DV IN:** i-LINK/DV input jack (IEEE1394), use to connect digital video camera or other digital equipments.

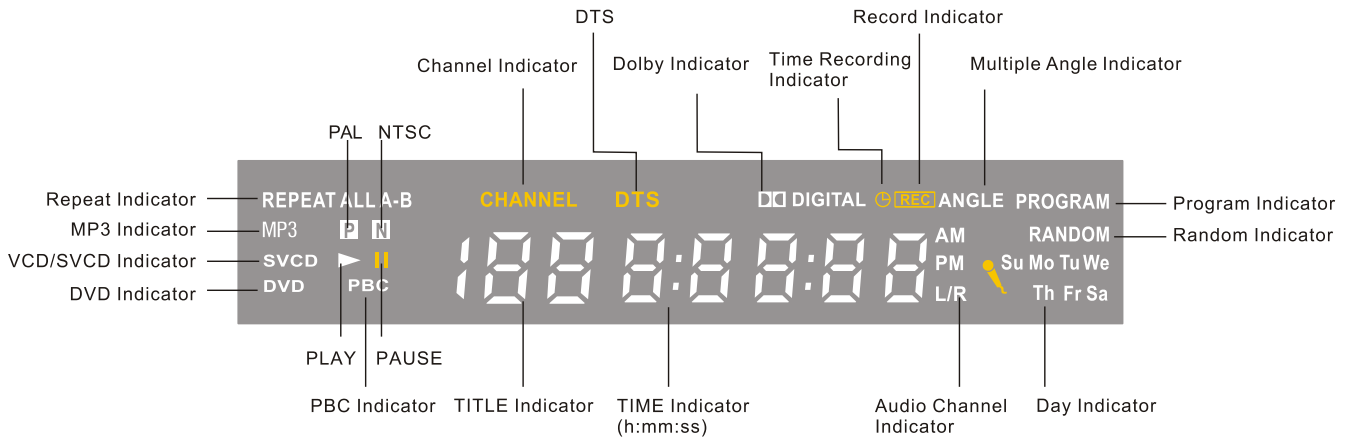


## REAR PANEL



<b>AC IN~</b>	AC IN powercord connector to 220-240V,50/60Hz mains supply.
<b>ANTENNA in</b>	Use to connect to antenna/cable TV.
<b>ANTENNA out</b>	Use to output TV signal to TV set.
<b>Audio output L/R</b>	Analog audio output(left and right).
<b>Coaxial output</b>	Use to output digital audio recorded on discs by connecting to the coaxial digital audio input on an AV amplifier or receiver with digital audio input capability.
<b>CVBS</b>	Use to connect to TV set with video(CVBS) input jack.
<b>Optical output</b>	Use to output digital audio recorded on discs by connecting to the optical digital audio input jack on an AV amplifier or receiver with digital audio input capability.
<b>SCART IN</b>	Use to connect to digital AV equipments with SCART OUTPUT capability. (E.g. DVD player with SCART output jack)
<b>SCART OUT</b>	Use to connect to TV set or other equipments with SCART in jack.
<b>S-Video</b>	Use to connect to TV set with S-VIDEO input jack.
<b>Y Cb/Pb Cr/Pr</b>	Use to connect to TV set with Y Cb/Pb Cr/Pr input jacks. The output mode can be set as progressive or interlace

## DISPLAY WINDOW





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Manufactured under license from Digital Theater Systems, Inc. U.S. Pat. No's. 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 and other U.S. and world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2003 Digital Theater Systems, Inc. All Rights Reserved.

### Safety precautions

- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- Do not open the cabinet by yourself. Leave all servicing to qualified service personnel.
- This appliance is a Class I laser product. Direct exposure to beam may cause eye injury.
- Power requirement for this appliance is AC 220-240V, 50/60 Hz. Please ensure the power supply to your home is in this range before using the recorder.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

### Operating precautions

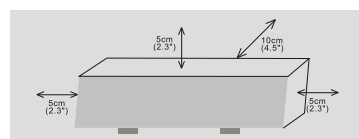
- Please use the original packing case and materials when transporting this DVD recorder.
- The temperature of the top cover and rear panel of the recorder may be high after playing for a long period of time. This is normal.
- When the recorder is not in use, please remove the disc and turn the power off.
- Malfunctions may occur if the recorder has not been used for a long period of time. For best results, turn it on occasionally.
- Some kinds of discs may cause the unit to hang or freeze. Please restart the unit when this occurs. Wait at least 10 seconds before restarting to extend the life of the recorder.
- This appliance had better be unplugged after using each time for better protection.

### Placement

Picture and sound quality may be affected when the DVD recorder is placed close to a TV set, radio or VCR, so please place these items as far away from the unit as possible.

### Space for ventilation

Place the appliance in a location with adequate ventilation to prevent internal heat build up.



### Acquiring clear pictures

This DVD recorder is a device of high technology and high precision. The image quality may be impaired when the laser head or the disc driving parts are dirty or damaged.

### Condensation precautions

Condensation may cause certain kinds of damage to the player. It may form because

- The recorder is moved from cold to warm surroundings.
- The recorder is placed inside a room where the heater is just on or exposed to the ventilation hole of an air-conditioner.
- The recorder is moved out from an air-conditioned room to a place of high temperature and humidity in summer time.
- The recorder is being used in a surrounding of high humidity.

Do not use the recorder where condensation may be form easily, otherwise damage may be caused to the disc and inner parts of the recorder. Please take the disc out, plug the power cord into a wall outlet and turn the recorder on. The moisture will disappear when the temperature rises two or three hours later.

### Cleaning precautions

- Use a soft and dry cloth for cleaning.
- For the stains that cannot be removed easily, apply some diluted neutral detergent to a cloth, wring the cloth dry and wipe the stains away, then use a dry cloth to clean. Do not use any solvents such as thinner or benzine; otherwise the surface of the player may be damaged.
- When using duster cloth with chemical substance for cleaning, please refer to the using procedures the product requires.

## Specifications

Power supply	220-240V AC 50/60 Hz
Power consumption	28W
Power consumption (stand by)	< 4W
Size (mm)	430 × 53 × 320(L × H × D)
Weight	approximately 4.0kg
Environment temperature	15~35 °C
Humidity	25~75%

**Note: Specifications are subject to change without notice.**

## Accessories

- User's manual
- Warranty card
- Quick user guide
- Remote control and 2 AA batteries
- Antenna cable
- Power cord
- SCART cable



## Disc care

This section provides information of using, cleaning and storing discs.

### USING DISCS

Do not touch the playing surfaces of discs.

Do not fix labels or stickers to discs.



### STORING DISCS

Do not expose discs to direct sunlight and heat sources.

Keep discs away from moist or dirty surroundings.

Store discs standing upright in their jackets. Stacking discs or placing them outside jackets may cause them to warp.



### CLEANING DISCS

Fingerprints or other dirt on the disc may affect sound and picture quality. To keep discs clean, use a soft cloth and wipe from the inside toward the outer edge.



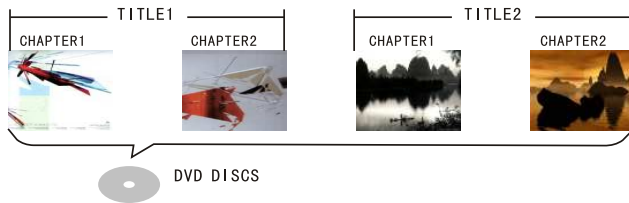


## About discs

### DIFFERENCES IN DISC COMPOSITION

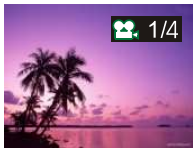
#### DVD

The whole disc is divided up into smaller, more manageable sections so that you can find specific content more easily. DVD discs are divided into one or more titles. Each title may be further divided into several chapters. Occasionally, a chapter may contain index points, effectively dividing the chapter up into several parts, too.



#### MULTI-ANGLE

You can view scenes from different camera angles when watching movies or other media with multiple angle playback available.



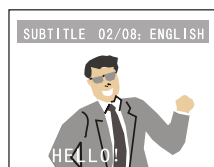
#### MULTIPLE AUDIO LANGUAGES

You can select the expected language on when watching movies or discs that have multiple languages and/or audio soundtracks recorded on them.



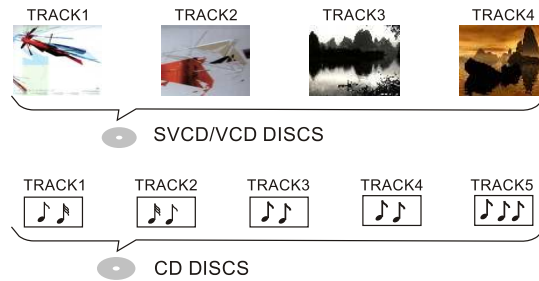
#### MULTI-LANGUAGE SUBTITLES

You can select the expected subtitle language or turn subtitles off when watching movies or discs that have multi-language subtitles recorded on them.



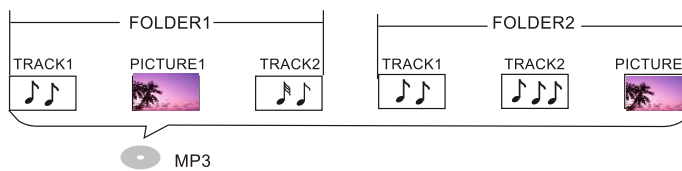
### SVCD/VCD/AUDIO CD

SVCD/VCD/AUDIO CD are divided into a number of tracks. A track may contain a number of index points occasionally, which effectively divides the track up into several parts.



### MP3/JPEG/MP4(DivX)

MP3 is a compressed audio file format. Files are recognized by their file extension ".mp3" or ".MP3". JPEG is a compressed image file format. Files are recognized by their file extension ".jpg" or ".JPG". DivX is a compressed video format with the file extension recognized as ".avi"



**NOTE:It may require longer time for the DVD recorder to display the disc content on the TV due to the large file size or number of songs/pictures compiled into one disc.**



## PLAYABLE AND WRITABLE DISCS

### DVD±RW (rewritable DVD discs)

DVD±RW is an erasable format based on CD-RW technology. DVD±RW media can be rewritten more than 1,000 times. Such discs must be made compatible before they can be played by other DVD players.



### DVD±R (write-once DVD discs)

DVD±R discs can only be written once. (It is not obligated that all the capacity of the disc to be filled up in one single recording operation. You can append new contents later. However, the used capacity cannot be written for the second time.) Such discs must be finalized before they can be played by other DVD players.



*Note: A finalized DVD±R disc cannot be appended with any new content, even though there is still unused capacity.*

## PLAYABLE-ONLY DISCS

### DVD Video (Digital Versatile Disc)



### DVD-R (write-once DVD)

For this type of discs, only those recorded in video mode and have been finalized discs can be played by this appliance.



### DVD-RW (rewritable DVD)

For this type of discs, only those discs that are recorded in video mode and have been made compatible can be played by this appliance.



### Audio CD (digital audio disc)



### Super Audio CD (only plays the CD layer of a hybrid SACD disc)



### VCD (format 1.0, 1.1 and 2.0)



### Super VCD



### Audio CD-R (write-once CD) / MP3 Compressed Music



### Audio CD-RW (rewritable CD) / MP3 Compressed Music





## Special features

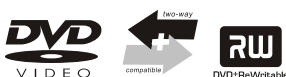
This appliance has some special features, these features facilitate your operation of the appliance and improve your audiovisual enjoyment.



The digital input connector, known as 'firewire' or 'IEEE1394', is used to transmit digital broadband signals. The audio and video signals are transmitted via the same cable.



MP3 files are highly compressed music files, which compress standard CD audio files to ~1/10 of their original size. As a result, up to 10 hours of music can be stored on a single CD.



Ordinary the video is recorded at the current position of the disc. This is like the tape recorder, the user can start recording at the middle of the tape. For DVD±R discs, new video segment is always appended to the existing video segments. The DVD recorder can play both pre-recorded DVDs and CDs. DVDs recorded using this DVD recorder can be played on most current and future DVD players.



Dolby Digital is a standard developed by Dolby Laboratories for transmitting from 1 to 5 full-range channels as well as a low frequency (.1) channel for a total of 5.1 discrete channels. The loudspeakers are arranged as follows: front, left, front middle, front right, rear left and rear right. Dolby Digital is currently the most common system and is often used in cinemas.



This product contains copy protection technology, which is protected by US Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 and other intellectual property rights. Use of this copy protection technology from Macrovision Corporation requires the approval of Macrovision. It is intended exclusively for home use and other limited pay-per-view applications, unless Macrovision approves some other use in writing. Modifications to the equipment, removal of components and reverse engineering are prohibited.



DivX is a codec (short for compression/decompression) - a piece of software that compresses video from virtually any source down to a size that is transportable over the Internet without reducing the original video's visual quality. Currently the highest DivX version the recorder supports is DivX5.2.



## Introduction of product functions

This appliance adopts LSI's new generation encode-decode integrative single chip solution, which enables this appliance to encode the TV RF signal, AV input signal from external equipments or digital signal from IEEE1394 equipment in MPEG-2 format, and record on DVD±RW or DVD±R discs for the facility of storage. This appliance is also compatible with all functions of ordinary DVD players.

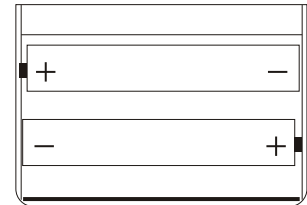
This appliance has the following features:

- Adopts LSI' unique DominoFX image processing technology, providing excellent image quality.
- Coaxial digital audio out jack.
- Standard video out (CVBS), S-video out, SCART IN/OUT jacks, and component video out (Y, Cb/Pb, Cr/Pr) out jacks.
- 16:9 and 4:3 TV screen aspect ratio support.
- Playback functions including Program, Repeat, Frame Forward/Reverse, Fast Forward/Reverse, Zoom In/Out, etc.
- Parental Lock Level control system.
- Screensaver program for screen protection.
- Supports 8 audio languages, 32 subtitle languages, and 9 viewing angles, as well as other full functional DVD playback features.
- Compatible with DVD, Super VCD, VCD, CD, CD-R discs, can play MP3 and Picture CD.
- Can receive and record TV signal, as well as monitor its output.
- Automatic time recording of AV signal or TV signal from external signal sources.
- IEEE1394 DV in jack for video camera to record digital signal.
- Discs recorded with this appliance is also compatible with other DVD players.
- Can set system time manually.
- Programs recorded on the DVD+RW discs are editable, you can rename the title, change title index picture, divide a single title into smaller parts, and hide titles.
- OTR quick mode available, facilitates the users to quickly capture and record in time.
- The users can set 20 time-recording events. Each event has three options: "Once", "Daily" and "Weekly" .
- Intelligent software update.

### PREPARING REMOTE CONTROL

The remote control and batteries are individually packed. Before you start to use the remote control, put batteries into the remote control as the following steps:

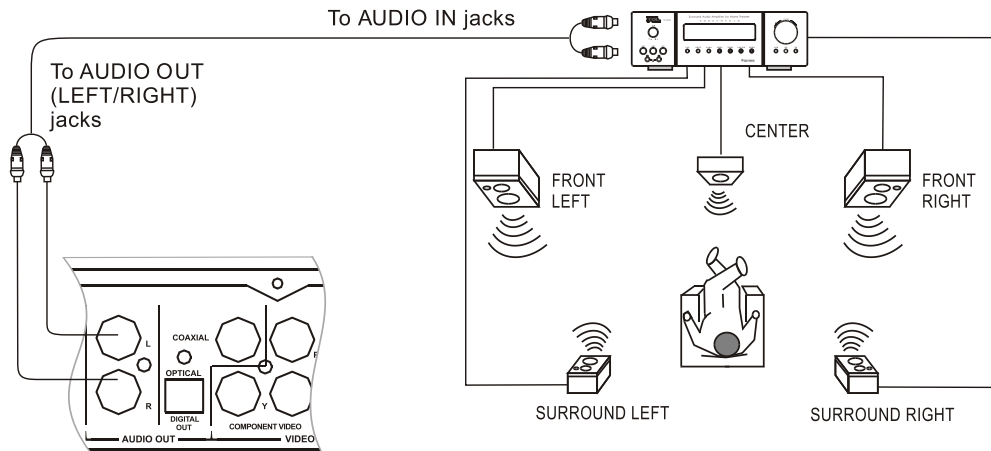
- 1 Take the remote control and two AA batteries.
- 2 Remove the battery cover of the remote control, insert batteries as shown on the illustration, and then put the cover back.  
Now the remote control is ready for use. The effective distance is about 5 to 10 metres.



Note: When operating the set, please point the remote control directly at the DVD recorder instead of the TV set.

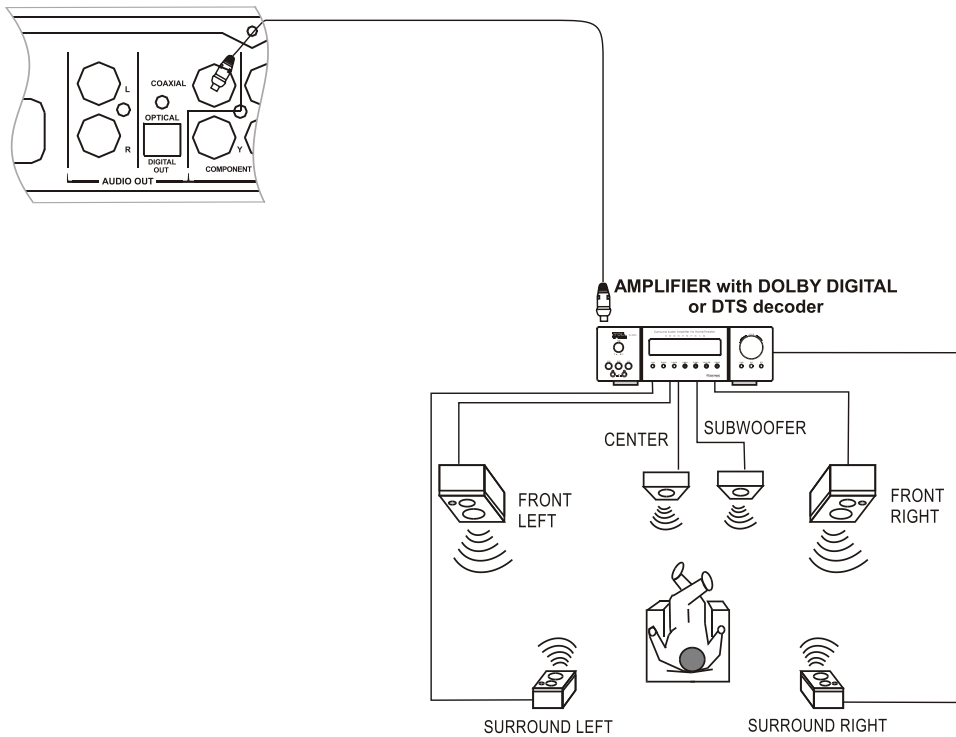
### CONNECTING TO AN AMPLIFIER WITH DOLBY PRO LOGIC DECODER

You can enjoy the Dolby Surround audio effect by connecting the recorder to an amplifier-and-speakers system with Dolby Pro Logic decoder.

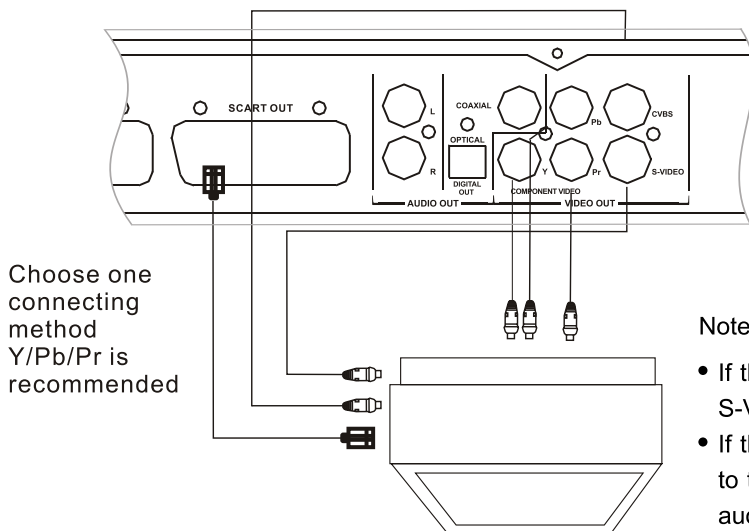


### CONNECTING TO AN AMPLIFIER WITH DOLBY DIGITAL DECODER OR DTS DECODER

You can enjoy the completely-reproduced 5.1-channel Dolby Digital audio or Digital Theatre Systems audio effect by connecting the recorder to an amplifier-and-speakers system with Dolby Digital decoder or DTS decoder via a coaxial cable.



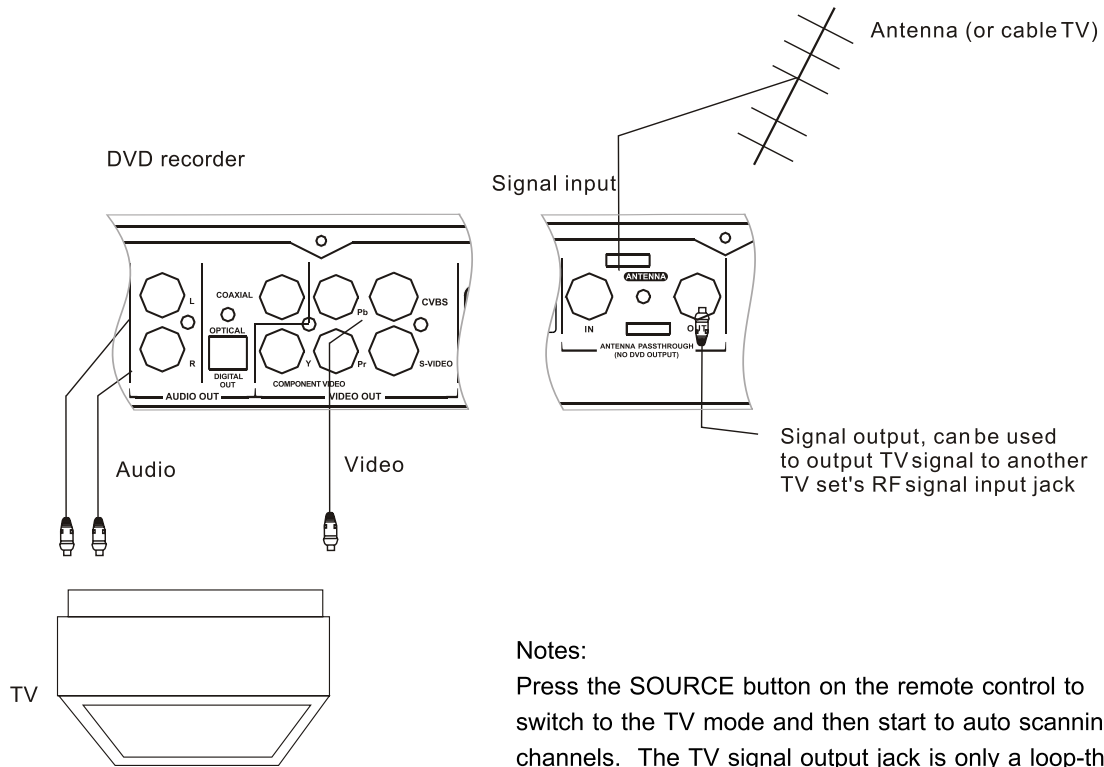
**CONNECTING TO A TV**



**Notes:**

- If the TV has a S-VIDEO IN jack, connect it to the S-VIDEO jack on the recorder.
- If the audio output jacks should also be connected to the TV set, please connect the LEFT and RIGHT audio out jacks on this appliance to the audio input jacks that belong to the same jacks group as the video input jack on the TV set.
- If the TV has COMPONENT VIDEO IN jacks (Y, Cb/Pb, Cr/Pr), connect them to the corresponding Y, Cb/Pb, Cr/Pr OUT jacks on this appliance.
- If the TV has SCART IN jack, connect it to the SCART OUT jack on the recorder.

**WATCHING TV VIA THIS APPLIANCE**

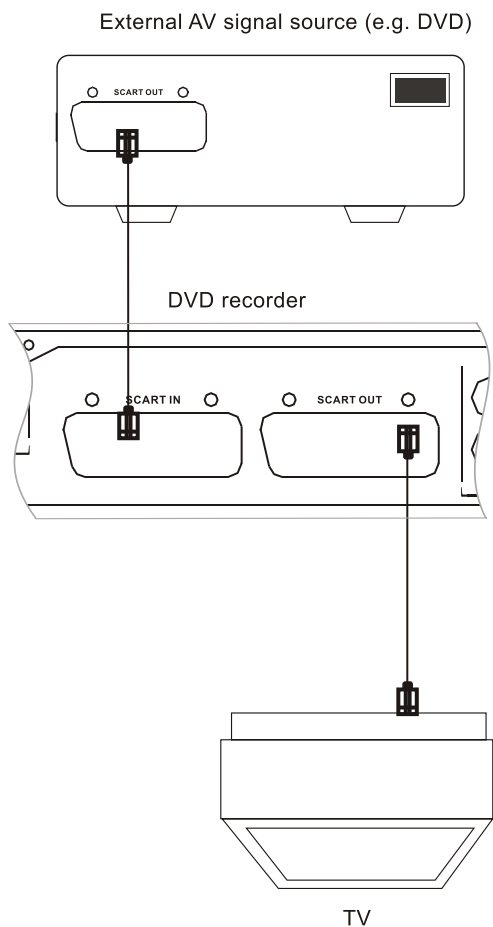


**Notes:**

Press the SOURCE button on the remote control to switch to the TV mode and then start to auto scanning channels. The TV signal output jack is only a loop-through of the inputted signal.



## CONNECTION OF INPUTTING AV SIGNAL VIA SCART IN JACK

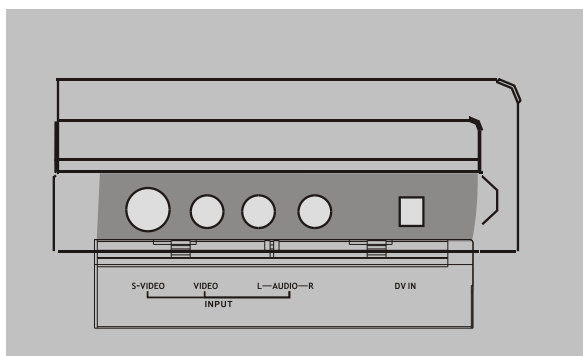


Note: Even when the DVD recorder is in STAND-BY status, the AV signal from the external AV signal source can be normally played on the TV set via the SCART IN and SCART OUT jacks on the DVD recorder. Canal+ decoder should be connected to Scart IN to obtain the decrypted TV program.

You can record signal inputted via the SCART IN jack, e.g.: The AV signal from a DVD player with SCART out jack. Press the SOURCE button on the remote control to switch the working mode of this appliance to the proper mode according to the connection type.

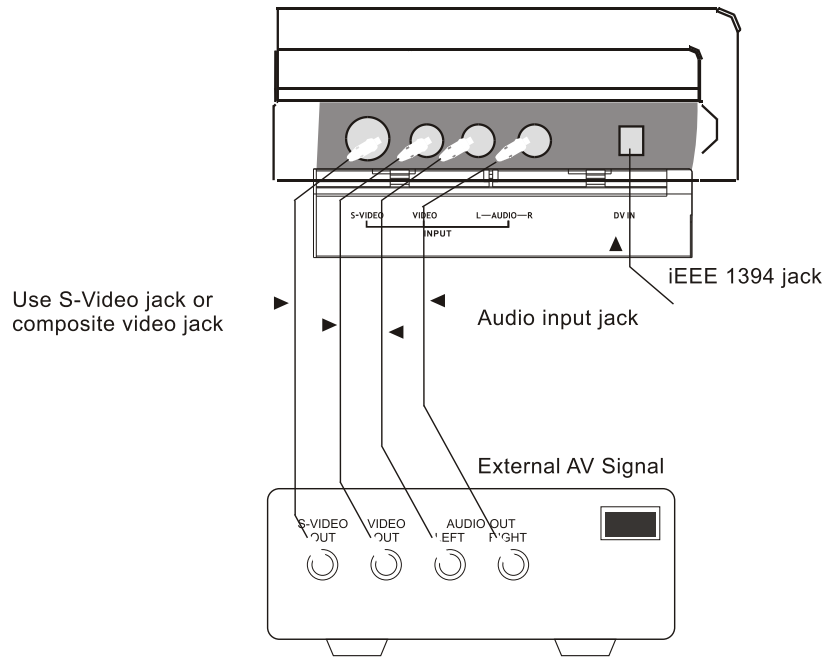
## CONNECTION OF INPUTTING AV OR DV SIGNAL VIA FRONT PANEL

Select the correct AV signal input by pressing the SOURCE button on the remote control. If the signal source is connected via S-VIDEO jack, press SOURCE button to select FRONT S-VIDEO INPUT. If the signal source is connected via DV jack, press SOURCE button to select DV INPUT. The picture will appear on your TV screen. You may start your recording.

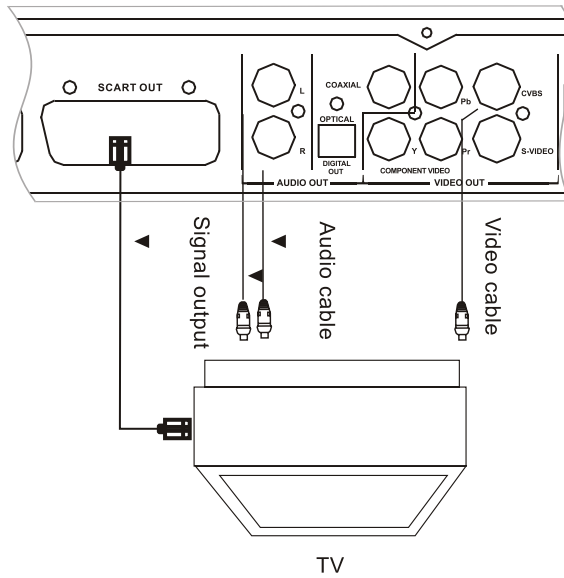


Flip down the door as indicated by the OPEN ► label at the right hand corner.





Rear panel



**PLAYING ORDINARY DISCS**

1. Make sure all connections are correct, then plug the power cord into a wall outlet.  
Press **POWER** button on the front panel or remote control to power on your recorder.

2. Insert a DVD disc when **LOAD** displays on the display window.

3. Use the arrow keys to select the desired title.

4. Press the **ENTER** or **PLAY** button.

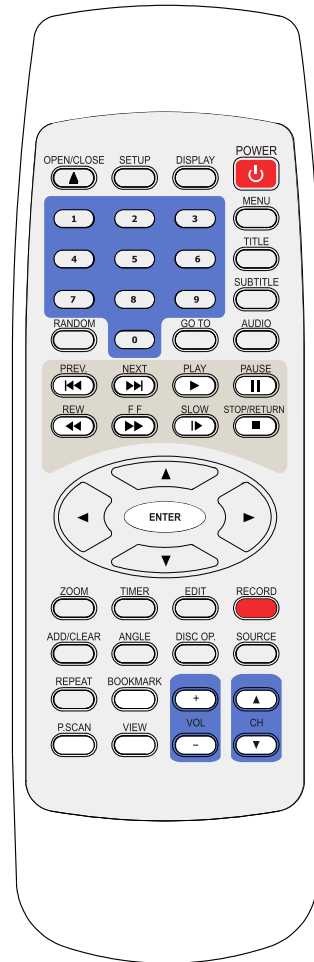
The selected title will start playing.

5. Press **ENTER** button during the process of playback to display the playback information.

T01/05	C01/24	AU01/02	00: 02: 35
Current Title/ Total Titles	Current Chapter/ Total Chapters	Current Audio Language/ Total Audio Languages	Elapsed Time

6. Press **ENTER** button again, the playback control menu shows as below. Press **LEFT** arrow button to shut down the menu.

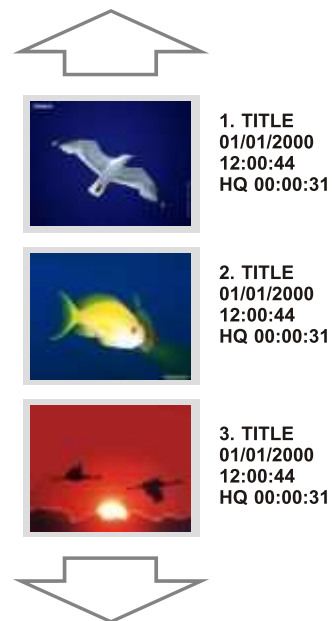
<b>DVD</b>		
MODE	Normal	Normal
Trick mode	PLAY	A-B Repeat
TITLE	01/23	Chapter Repeat
CHAPTER	01/01	Title Repeat
AUDIO	01/01-CHI	Disc Repeat
SUBTITLE	0.Off	
ANGLE	01/01	
T-TIME	00:00:26-00:00:19	



7. To remove the disc, press the **▲** button on the front panel.

## PLAYING DVD±RW or DVD±R DISCS

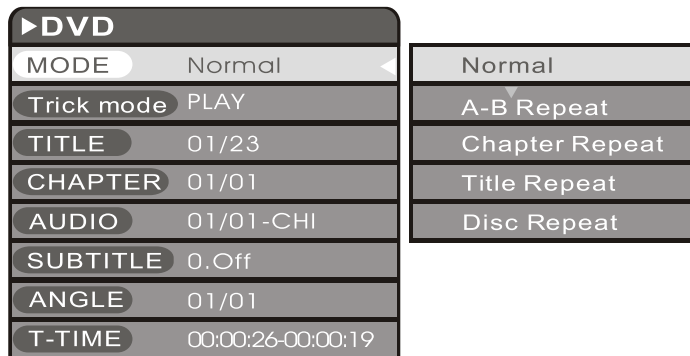
1. Power on your recorder.
2. Insert a DVD±RW or DVD±R disc.
3. Browse the DVD Index Screen.
4. Use the ARROW keys (UP/DOWN) to highlight the desired title. Press ENTER to start playing.
5. Press STOP to stop playback, press PLAY will resume playback from the stop point.



1. TITLE — The name of the recording (the default name is "TITLE").  
 01/01/2000 — The recording date.  
 12:00:44 — The recording time.  
 HQ 00:00:31 — The quality setting and length of the recording.

## CONTROLLING THE PLAYBACK VIA MENU

1. Press ENTER button to show the control menu at any playback status.



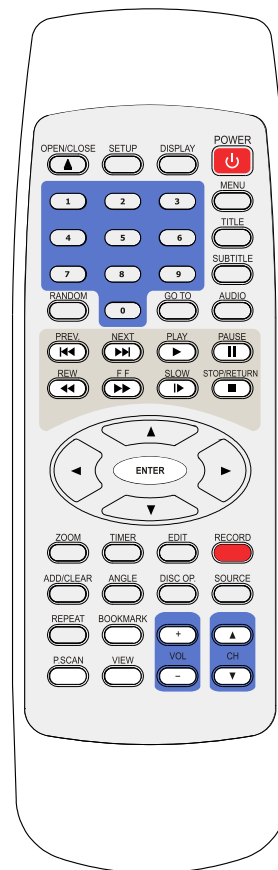
**MODE:** Set the playback mode, e.g.: Repeat, Program, Random, etc.



**TRICK:** Set the playback status, e.g.: Stop, F.F., F.R., S.F., etc.



**TITLE:** Press ENTER then enter the desired title number to go to and play the title.



CHAPTER 01/01

**CHAPTER:** Enter the desired chapter number to go to and play the chapter.

AUDIO 01/01-CHI

**AUDIO:** Select the audio language you want to use, e.g.: CHI (Chinese), ENG (English), etc.

SUBTITLE Off

**SUBTITLE:** Select the subtitle language.

ANGLE 01/01

**ANGLE:** Select the camera angle. ( must be supported by the disc)

T-TIME 00:00:26 - 00:00:19

**T-TIME:** Display the elapsed time and remain time.

Press **LEFT** arrow button to exit the control menu.

### FAST FORWARD

Press **▶▶** button repeatedly to fast forward at 4 different speeds.



### FAST REVERSE

Press **◀◀** button repeatedly to fast reverse at 4 different speeds.



NOTE: Press **PLAY** to resume normal playback.

### PLAY

Press **PLAY** button on the remote control or **▶** button on the front panel to start playback.

### PAUSE

Press **PAUSE** **||** button on the remote control to pause.

### SLOW FORWARD

Press **◀▶** button during playback to slow forward at three different speeds: SF1/2, SF1/4, and SF1/8.

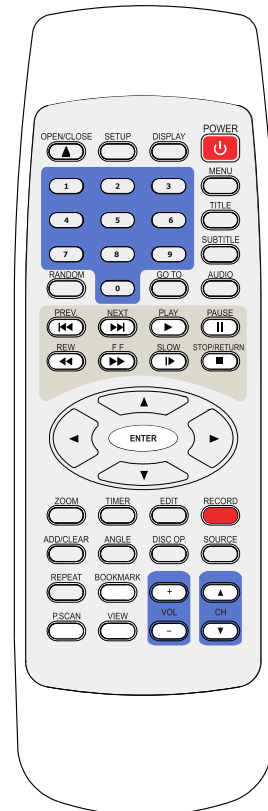
NOTE: Press **PLAY** to resume normal playback. For different discs, the playback features mentioned above may behave with small differences.

### SEARCH

Press **GO TO** button to access the search menu (press **GO TO** repeatedly to switch three modes: title, chapter or time).

Use number buttons to select your desired title, and press **ENTER** button to play.

NOTE: Only for DVD discs, and some DVD discs may not support time searching mode.



## SKIP

- Press **▶▶** button to skip to the next title/chapter.
- Press **◀◀** button to skip to the previous title/chapter.

## REPEAT

- A-B Repeat**
  - Press **ENTER** button twice to access the setup menu during playback.
  - Use **UP/DOWN** arrow buttons to highlight the **MODE** item, and press **ENTER** button.
  - Use **UP/DOWN** arrow buttons to highlight the **A-B REPEAT** item, press the **ENTER** button to mark the start point (A); press the **ENTER** button again to display the **A-B REPEAT** item and then press the **ENTER** button for the third time to mark the end point (B). Then the section between the start point and end point will be repeatedly played.
  - Press left arrow button to exit the setup menu.
- Title/chapter/disc repeat**

Repeatedly press the **REPEAT** button during playback to repeat title/chapter/disc.
- Repeatedly press the **REPEAT** button to resume normal playback.

## DISC MENU

- Press **MENU** button to show the disc menu. The content of the menu will be different for different discs.
- Use arrow buttons to select your desired title, and press **ENTER** button to play it.
- Press number button to play your desired title directly.

## VCD DISC MENU

- Press **MENU** button to show the disc menu (**PBC ON**).
- Press number buttons to play your desired title.
- Press **RETURN** button to go to upper menu.

NOTE: Only for VCD 2.0 and above versions. When the disc is being played, press number buttons will trigger no action.

## PLAYING IN SEQUENCE

- Press **MENU** button to switch between **VCD DISC MENU (PBC ON)** mode and **PLAY IN SEQUENCE (PBC OFF)** mode.
- For VCD 1.0, 1.1 discs, the player will enter **PLAY IN SEQUENCE** mode after the disc is loaded. (These types of discs can only be played in this mode.)
- In this mode, you can press number buttons to select a title to play. And the number buttons will also respond when the disc is being played. Some discs will start to play automatically without the interfere from the user.

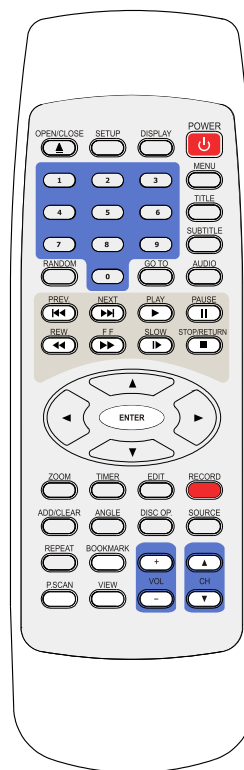
NOTE: Only for VCD and SVCD discs.

## VIEWING ANGLE

- Press **ANGLE** repeatedly to toggle between up to 9 viewing angles when scenes recorded in the disc was shot with multiple cameras from different angles.



NOTE: Only for DVD discs.



## AUDIO LANGUAGE

Press **AUDIO** repeatedly to toggle between up to 8 audio languages or sound when the disc is recorded with multi-languages.

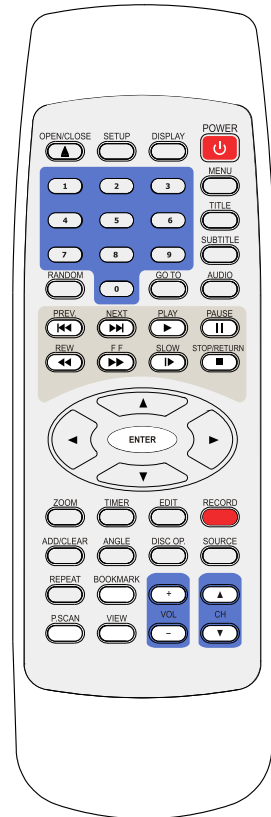
**Example** Audio : 1 / 4ENG DOLBY

The first audiolanguage      The first audiolanguage is English

Totally 4 languages/sound recorded

For Karaoke discs, press **AUDIO** button to switch between the accompany music and vocal.

NOTE: Only for DVD/SVCD discs.



## SUBTITLE LANGUAGE

Press **SUBTITLE** repeatedly to toggle between up to 32 subtitle languages when the disc is recorded with multi-subtitles.

**Example:** SUBTITLE: 03/08 CHI

The third subtitle      The third subtitle language is Chinese

Totally 8 subtitles recorded

NOTE: Only for DVD/SVCD discs.

## SCREEN DISPLAY

Press **ENTER** button for the first time during playback, the following information shows:

DVD DISC:	Playing Title	Playing Chapter	Audio Language	Elapsed Time
NORMAL	PLAY T01/01	C01/10	AU01/02	00:01:41

Press **ENTER** button for the second time during playback, the playback control menu displays. You can use this menu to control the playback.

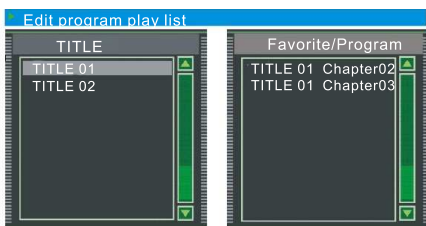
Press **LEFT** arrow button to exit the control menu.

The information displayed is related to the settings and disc contents.

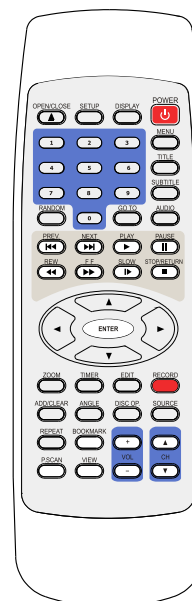
## PROGRAM PLAYING

Press **ENTER** button twice to access the playback control menu.

Select "Program" in the "Mode" submenu, the program window displays.



- Use arrow buttons to highlight the title or chapter you want to program play. Press ADD/CLEAR, the title or chapter name will be added into the right panel. Use this method to add all your favourite titles or chapters into the right panel.
- Press RIGHT arrow button to move the cursor into the right panel, press ADD/CLEAR button to remove title or chapter from the list.
- Press ENTER button to start program playback.
- To exit program playback, press the ENTER button to access the playback control menu, and select the NORMAL status. Or press STOP/RETURN button to exit program playback.



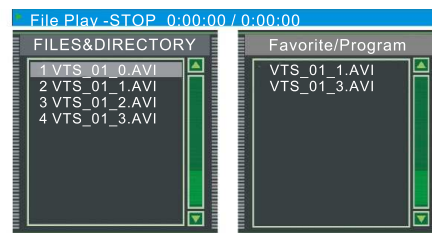
### JPEG/MP3/DivX PLAYBACK

If a disc contains both JPEG and MP3 contents, the user can enjoy the pictures and music at the same time.

1. Insert the disc and the file folder menu appears on the TV.
2. Use the arrow and ENTER buttons to select Mp3 and JPEG folders and files for playback.
3. For JPEG/MP3 Simultaneous Slideshow, select the MP3 file then select the JPEG file. The MP3 and JPEG files will playback in the order in the folder.
4. Press STOP/RETURN button to stop JPEG or MP3 playback. For JPEG/MP3 Simultaneous Slideshow, press STOP/RETURN button twice to stop both playback.

For a disc contains DivX files, a playlist window as the figure below will automatically display when the disc is loaded.

1. Use UP/DOWN arrow buttons to select your desired file and press ENTER button to play it.
2. Use ADD/CLEAR button and UP/DOWN buttons, you can make a favorite playlist in the right panel and play files in your desired sequence. (Refer to PROGRAM PLAYING)
3. Press DISPLAY button to display/hide the playlist window during playback.



### PARENTAL LOCK

Parental lock is a password protecting system. It enables the user to prohibit this instrument from playing some discs according to the level information these discs carry.

To set parental lock, you need to:

1. Press STOP button twice during playback.
2. Press the SETUP button to access the system setup menu.
3. Press UP/DOWN arrow buttons to highlight the PLAYBACK item. Press ENTER button to confirm the selection.
4. Press UP/DOWN arrow buttons to highlight the RATING LEVEL item. Press ENTER button to confirm the selection.
5. Press number buttons to enter the password (the super password is 3308). Press ENTER button to confirm.
6. Press ENTER button on the remote control to display the level list.
7. Use UP/DOWN arrow buttons to highlight the level you want to set. Press ENTER button to confirm the selection.
8. Press SETUP button to exit.

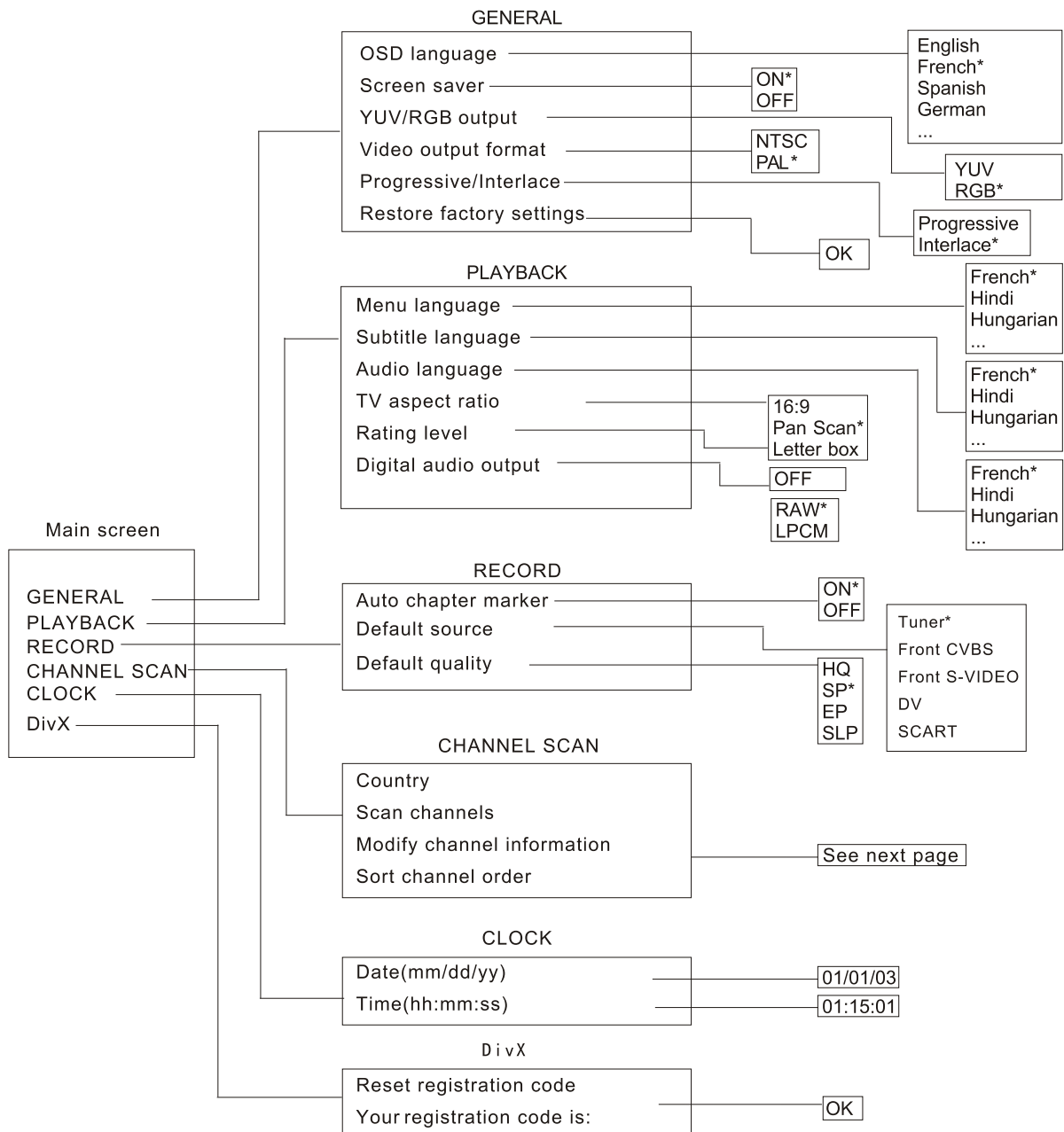
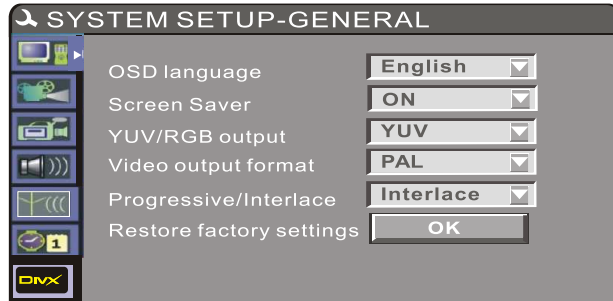
### CHANGING PASSWORD

1. Repeat step 1 to step 5 as described above.
2. Use UP/DOWN buttons to select the NEW button and press ENTER button on the remote control.
3. Enter new password in the first block; and then enter the password again in the confirming block. Press ENTER button to save the new password.
4. Press SETUP button to exit the setup menu.



## SYSTEM MENU

- Press **SETUP** button when the playback is stopped to show the system menu.
- Use arrow buttons to select your desired item, press **OK** button to confirm your selection.
- Press **SETUP** button again to exit the menu.

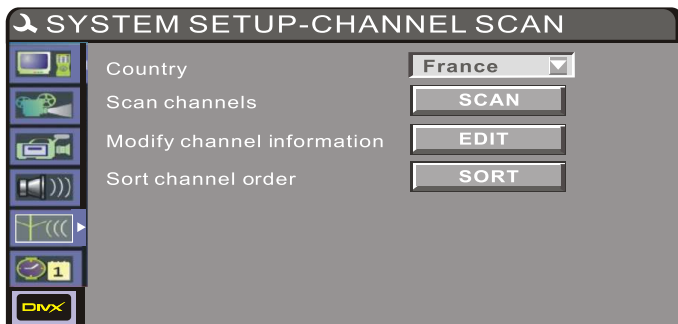


## TV CHANNEL SETTING

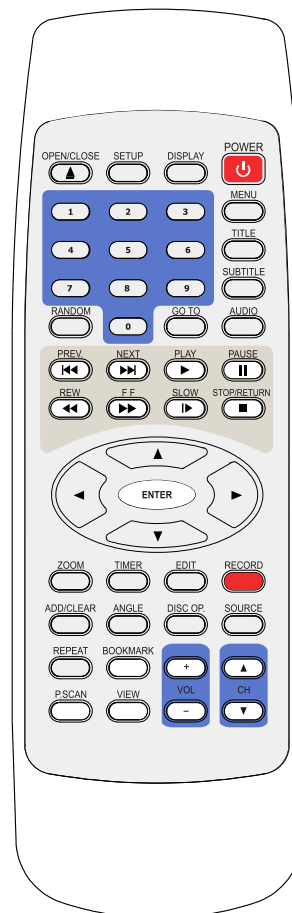
If you want to record TV programs, you must make sure that you have performed TV channel scanning.

To perform TV channel scanning, follow these steps:

- Press **SETUP** button to access the system menu when the playback is stopped.
- Use arrow buttons (**UP/DOWN**) to highlight the  item, and then press **ENTER** button to access TV setup menu.



- Use arrow buttons (**UP/DOWN**) to highlight " Scan channels " and press **ENTER** button to start scanning.
- Use arrow buttons (**UP/DOWN**) to highlight "Modify channel information", and press **ENTER** button to access **CHANNEL EDIT** menu.



Name: Use arrow buttons (**UP/DOWN/LEFT/RIGHT**) to select and edit channel name.

Scan mode: Use arrow button (**UP/DOWN**) to select scan mode. There are three modes: **Frequency**, **Channel**, and **S-Channel**. To select different mode makes the third item of this menu display different content.

Frequency: The frequency of current channel. This item may be displayed as **Channel** or **S-Channel** due to the setting of the second item. Press **LEFT/RIGHT** arrow keys to search the next channel downward/upward in Frequency (Channel/S-Channel) sequence.

Sound mode: Select TV system of the current channel.

NICAM: Turn on/off the NICAM option.

Audio: Change audio option. There are two options: **DUAL A** and **DUAL B**.

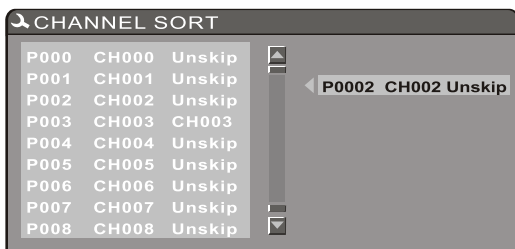
Skip: Decide whether to skip this channel when using **CH +/-** buttons to navigate between channels.

Fine tune: Fine tune current channel.

**OK**: Confirm current channel's settings and save.

**Cancel**: Discard current settings and exit the menu.

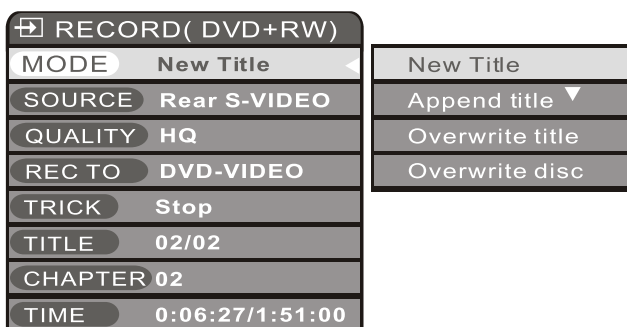
- Use arrow buttons (**UP/DOWN**) to select "Sort channel order", and press **ENTER** button to sort the **TV** channels.



Use arrow buttons (UP/DOWN) to select the channel you want to sort, press ENTER or RIGHT button to confirm your selection. The selected channel will be moved to the right panel, which serves as a temporary container. Press UP/DOWN button, the selected channel moves along with the cursor. Move the cursor to your desired position, and press LEFT button to insert it into the left list.

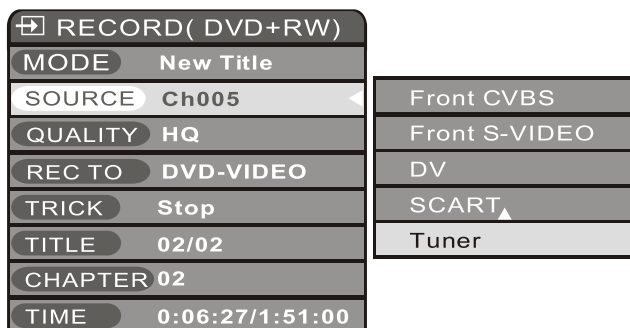
## BASIC RECORDING

1. Connect the recorder as shown on pages 9-11.
2. Insert a recordable DVD  $\pm$  RW or DVD  $\pm$  R into the unit.
3. Press SOURCE button to select signal source for recording.
4. Press ENTER button, current working status displays on the screen. Press this button for the second time to access the recording control menu.



### MODE:

- New title Newly recorded content will be saved as a new title.
- Append Newly recorded content will be appended to the last title on the disc.
- Overwrite title The current title will be overwritten by newly recorded content.
- Overwrite disc The whole disc will be overwritten by newly recorded content.



SIGNAL SOURCE: Use UP/DOWN keys to select the SOURCE item, and press ENTER button to select a signal source.

- Front CVBS: Front Audio/Video Input (on the front panel)
- Front S-VIDEO: Front S-Video Input (on the front panel)
- DV: DV Input (on the front panel)
- SCART: SCART Input (on the rear panel)
- Tuner (TV program).



RECORD( DVD+RW)	
MODE	New Title
SOURCE	Ch005
QUALITY	HQ
REC TO	DVD-VIDEO
TRICK	Stop
TITLE	02/02
CHAPTER	02
TIME	0:06:27/1:51:00

HQ
SP
EP
SLP

**QUALITY:**

- HQ** High quality, nearly 60 minutes on a blank disc.
- SP** Standard Play quality, nearly 120 minutes on a blank disc.
- EP** Extended Play, nearly 240 minutes on a blank disc.
- SLP** Standard Long Play, nearly 360 minutes on a blank disc.

**REC TO:**

This option is invalid.

**TRICK:**

- STOP** Stop recording.
- PAUSE** Suspend recording.
- RECORD** Start recording.

**TITLE:**

Current title name.

**CHAPTER:**

Current chapter name.

**TIME:**

Current recording time position on the disc.

**NOTE:** Up to 124 chapters can be recorded on a disc.

Up to 99 titles can be recorded on a disc.

### **OTR ( ONE-TOUCH RECORDING)**

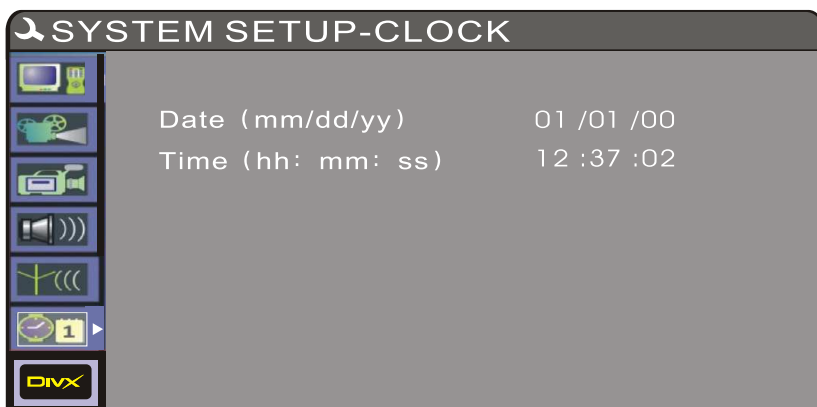
1. Press **RECORD** button, this appliance will start recording in the set recording mode.
2. During normal recording, press **REC** button on the front panel or **RECORD** button on the remote control, this appliance will automatically record for 30 minutes.
3. Press **RECORD** repeatedly to continuously add recording time in a 30-minute interval.
4. The length of the recording time is determined by disc capacity and recording quality. If the recording time you set exceeds the capacity of the disc, OTR will be cancelled and the unit will automatically switch to normal recording status.
5. To stop recording, press **STOP/RETURN**.

### **SWITCHING TO PLAYBACK MODE**

When recording is stopped, press **SOURCE** button to return to normal playback mode.

## SETTING THE CLOCK

1. While playback is stopped, press **SETUP** to display the system menu.
2. Use the **UP/DOWN** arrow keys to highlight the **CLOCK** icon and press **ENTER**.
3. Use the **UP/DOWN** arrow keys to highlight the **Date** or **Time** respectively.
4. With "**Date (mm/dd/yy)**" highlighted, press **ENTER** and enter the date using the **0-9** keys. Press **ENTER** again to confirm.
5. With "**Time (hh:mm:ss)**" highlighted, press **ENTER** and enter the time using the **0-9** keys. Press **ENTER** again to confirm.



## TIME RECORDING

1. Make sure the clock is set accurately to your local time.
2. Press the **TIMER** button to display the record scheduler.

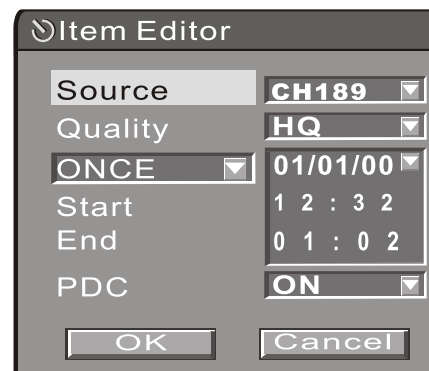


	Source	Quality	Date	Start	End	PDC
W 1	CH189	HQ	01/01/00	12:55	13:55	ON
W 2	Front CVBS	SLP	DAILY	22:55	03:25	OFF
3						
4						
5						
6						

NOTE: To delete a programmed event, use the **UP/DOWN** arrow keys to highlight it and press **ADD/CLEAR**.

3. Use the **UP/DOWN** arrow keys to highlight an event and press **ENTER**. The **Item Editor** dialogue box displays.
4. The following are descriptions of the items in the dialogue box:

- Source: Select your input source (see page 21).
- Quality: Select the record quality (see page 22).
- Once: Select the record mode (once, daily or weekly).
- Start: Select the start time of time recording event.
- End: Select the end time of time recording event.
- PDC: Turn on/off the G-CODE time recording switch.



5. Move cursor to the OK button and press ENTER to save your settings.

6. Several minutes before the time recording event begins, a dialogue box will appear on your TV screen prompting you to confirm or cancel the event. If you do not make any selection, the timer recording will proceed as scheduled.

NOTE:

- If the recorder is in standby status, it will power on automatically two minutes before the start of the time recording event.
- A DVD+RW/DVD+R disc can record 360 minutes of programs. These programs can be divided into 48 titles.

### SYSTEM TIME ADJUSTMENT

The appliance can automatically adjust the system time according to the time code it receives from the television station. Only the time code integrated in the first TV channel can be used by the appliance.

This function requires the signals from the TV station integrate time code.

### DivX REGISTRATION METHOD

You can find your registration code in the setup menu. Please use this code to register this recorder with DivX(R) decoder. This will allow you to rent and purchase videos using Divx(R) technology. To learn more, please visit [www.divx.com/vod](http://www.divx.com/vod).

## EDITING A DVD+RW TITLE

The following instructions are only for DVD  $\pm$  RW discs:

**1. Insert a DVD  $\pm$  RW disc with recorded contents into the disc tray.**

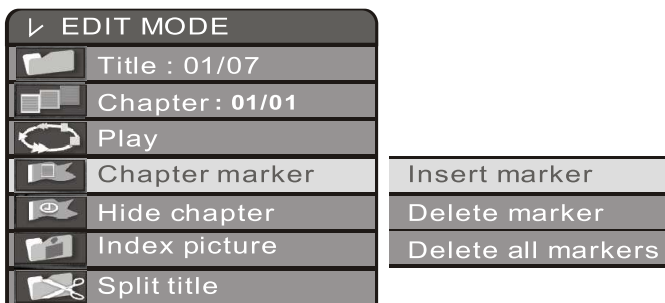
The DVD Index Screen appears.

**2. Use UP/DOWN arrow keys to highlight the title you want to edit.**

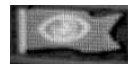
Use the arrow keys to scroll the title list. If there are more than 3 titles, press the DOWN arrow button ▼ to view the other titles.

**3. Press EDIT to display the title edit menu. The title will start to playback.**

Use the UP/DOWN arrow keys to highlight the target item, and press ENTER. Then use the UP/DOWN and ENTER buttons to make selection.



**View current title number / total number of titles**



**Hide/Unhide chapter**  
Select to hide or unhide the current chapter .



**View current chapter number / total number of chapters**

**NOTE:**  
If a chapter is hidden, this chapter will be skipped during normal playback. If you want to play this chapter, you need to access the "EDIT MODE" menu, and select the "Unhide chapter" item. Press ENTER button to confirm your selection, and then press EDIT button to exit.



**Current playback status**



**Index picture**  
Select to set the current image as the title's icon.



**Chapter marker**  
Select to add or delete chapter markers .



**Split title**  
Select to divide current title into 2 separate titles at current point

**4. Press EDIT to exit the menu.**

## EDITING DVD±RW TITLES



Because DVD±R discs cannot be repeatedly recorded or edited, the operations mentioned below do not work on DVD±R discs.

**1. Insert a recorded DVD ± RW in the disc tray.**

The Index Screen appears.

**2. Use the UP/DOWN arrow keys to highlight the title you want to edit, and press RIGHT arrow key to show the edit menu.**

**3. Use UP/DOWN arrow keys to highlight the item you want to select, and press ENTER to confirm your selection.**

Play title - Play current title.

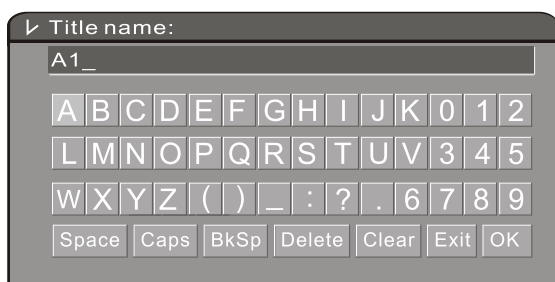
Erase title - Erase current title.

Edit title - Edit current title, please refer to page 25, EDITING DVD ± RW TITLE. e.g. add chapter markers, hide or unhide chapter, replace the index picture of a title, or split one title into two titles, etc..

Rename title - Rename current title. Press ENTER on this item, a virtual keyboard appears on your TV screen. Use the ARROW keys to highlight the letter or character you want to input, and press ENTER to confirm it.

Select OK and press ENTER button to save the name.

NOTE: The maximum length of a title name is 9 characters.



Overwrite title - To set the newly recorded contents be recorded from the start of current title and overwrite the title.

If the time length of newly recorded contents is shorter than the length of original title, the remainder of the original title will be saved as a new title on the disc.

If the time length of newly recorded contents is longer than the length of the original title, the recording process will be automatically stopped when it exceeds the end of the original title.

Append - (This item does not appear if the user is not editing the last title on the disc) Append a new title after the last title on the disc.

Overwrite disc - The newly recorded contents will overwrite the whole disc from the start of the disc.

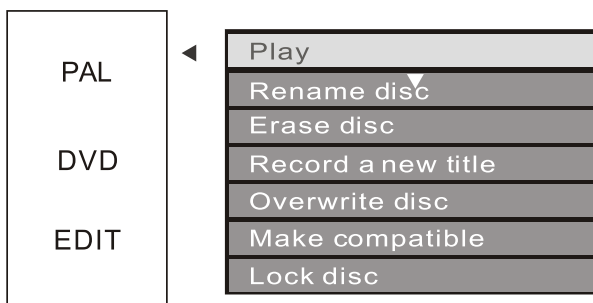


**Note:**

1. When the user select Overwrite title/Append/Overwrite disc, and press ENTER button to confirm, the signal source will be automatically changed to the previous signal source you pass before you start the disc editing operation. That is, if you press SOURCE button and navigate the signal sources in the following sequence: Rear AV -> Rear S-Video -> DV ->DVD, and then start the disc editing operation, the appliance will automatically change the signal source to DV input. You can use SOURCE button to change it to other signal source. (Hint: You can use SOURCE button to select the signal source, and press PLAY button to directly go to DVD disc title menu.)
2. The recording process will not start after you have selected Overwrite title/Append/Overwrite disc item, you have to press the REC button on the front panel or the RECORD button on the remote control to start recording.

## EDITING A DVD±RW DISC

1. Insert a DVD ± RW disc into the disc tray.
2. Use UP arrow key to move the highlight to the top of the disc recording information bar.



3. Press the RIGHT arrow key to show the disc menu. Use the UP/DOWN arrow keys to highlight one of the items shown above (Play, Rename disc, Erase disc, Record a new title, etc.) and press ENTER.
4. The user can also press the DISC OP. button on the remote control to do the work of step 2 and step 3.

**Operations:**

Play: Play recorded titles in sequence.

Erase disc: Erase all contents on the disc.

Rename disc: Rename the disc. Please refer to Rename title (Page 26).

Make compatible: If you have edited the DVD ± RW disc, this operation has to be done so that the disc can be played by other DVD players.

Use arrow keys to select the **Make compatible** item and press ENTER button to start the operation.

New title: Record new contents in a new title. This title will be saved as the last title.

Overwrite disc: Overwrite the whole disc from the start with new contents to be recorded.

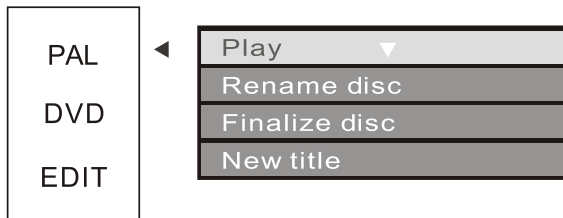
Note: Refer to **Editing DVD ± RW Titles** portion for **New title** and **Overwrite disc** operations.

Lock disc: Lock current disc to protect the data on it. The locked disc cannot be erased or recorded till it is unlocked.

Note: If a DVD+RW disc displays a different menu, press DISC OP. button to erase the disc first, then you may make a new recording.

## EDITING A DVD±R DISC

1. Insert a DVD ± R disc into the disc tray.
2. Press DISC OP. to display the disc editing menu.



### Operations:

Play: Play recorded titles in sequence.

Rename disc: Rename the disc. Please refer to Rename title (Page 26).

Finalize disc: Finalize a DVD ± R disc. Before this disc can be played in other DVD players, it must be finalized in the DVD recorder. Once this process is completed, no further recordings can be added.

New title: Record new contents in a new title. This title will be the last title on the disc.

## Troubleshooting

Problem	Solution
No sound	<ul style="list-style-type: none"> <li>• Connect the audio cables into the jacks securely.</li> <li>• Verify the connection from the DVD audio output to the TV or receiver audio input. Make sure the correct AUDIO input is selected on your TV or amplifier. Refer to your audio amplifier owners manual.</li> </ul>
Only sound, no picture	<ul style="list-style-type: none"> <li>• The scan mode of video output is incorrectly set. Press the PSCAN button on the remote control to switch to correct mode.</li> </ul>
No response	<ul style="list-style-type: none"> <li>• Connect the power plug into the wall outlet securely.</li> <li>• Time recording is proceeding. Press POWER or STOP/RETURN to cancel time recording.</li> <li>• The appliance might encounter a technical failure. Cut off the power supply and wait for 30 seconds before connecting it to the wall outlet again. If it still doesn't work, try to resume the appliance to the factory setting.</li> </ul>
Remote control does not work	<ul style="list-style-type: none"> <li>• The remote control is not pointing to the DVD recorder. Please aim at the DVD recorder.</li> <li>• Batteries are flat, replace batteries.</li> <li>• The appliance might encounter a technical failure. Unload batteries, wait for 30 seconds before place them back into the remote control.</li> </ul>
Cannot play disc	<ul style="list-style-type: none"> <li>• Blank disc, replace the disc.</li> <li>• Incompatible disc: please refer to page 5 for supported disc types information.</li> <li>• The disc is loaded with label side down. Make sure to load the disc with label side up.</li> <li>• Wrong region code. The region code does not match the region setting of the DVD recorder.</li> <li>• Parental lock is on. Unlock the parental lock. Default password is 3308.</li> <li>• Choose channel number on the TV set. Choose a correct channel number.</li> <li>• The connection between the DVD recorder and TV set is loose. Check the connection.</li> </ul>
Poor playing quality (distorted picture/sound)	<ul style="list-style-type: none"> <li>• The TV set is not adjusted to the best status.</li> <li>• The disc is dirty, clean the disc.</li> <li>• Interference may also make the picture distorted.</li> </ul>
Cannot record	<ul style="list-style-type: none"> <li>• The TV channel you want to record is not saved yet, or you have chosen wrong channel number. Please check the saved channels.</li> <li>• The disc is write protected. Remove the written protection or change a disc.</li> <li>• The disc is a closed DVD <math>\pm</math> R disc. Change a disc.</li> <li>• TV system mismatch. Please make sure the disc has not been recorded in different video format (e.g. PAL or NTSC). The DVD recorder does not support recordings of different video format on the same DVD <math>\pm</math> R/RW disc.</li> <li>• The disc you use may not conform to the DVD <math>\pm</math> R/RW standard.</li> <li>• Please make sure it is a DVD <math>\pm</math> R (DVD plus R) or DVD <math>\pm</math> RW( DVD plus 'RW') disc.</li> <li>• The recorder does not record on CD-R/RW or DVD-RAM disc.</li> <li>• Please make sure the disc has not been used in PC before.</li> </ul>

Problem	Solution
Time recording does not work	<ul style="list-style-type: none"> <li>• The date or time is not correctly set, please check the date and time.</li> <li>• The time schedule is not correctly set, please check the time schedule.</li> <li>• The disc is locked. Unlock the disc.</li> <li>• The disc is a closed DVD <math>\pm</math> R disc. Change a disc.</li> </ul>
DVD+RW disc cannot be edited	<ul style="list-style-type: none"> <li>• The disc is locked. Press DISC OP. button on the remote control and select Unlock Disc to unlock the disc.</li> </ul>
TV signal has picture or sound interference	<ul style="list-style-type: none"> <li>• Check the antenna.</li> <li>• Check the selected TV system in the system menu. In mainland China, the TV system should be PAL D/K.</li> </ul>
Distorted picture or black-and-white picture	<ul style="list-style-type: none"> <li>• The disc's colour system does not match the TV's colour system.</li> <li>• The signal is not a colour signal.</li> </ul>
No digital audio output	<ul style="list-style-type: none"> <li>• Check whether the digital input jacks match the external instruments' output jacks.</li> </ul>