

AWA



**DVD+ RW RECORDER
WITH HDD 160G**

DR620
USER MANUAL

CONTENTS

Safety precautions	2
Important safety instructions	3
Basic information	5
Before your start	6
Remote control function	7
Panel	8
Connection	10
Advanced playback	13
Using the setup menu	16
Recording options	20
DVD Editing	23
HDD recording	25
HDD editing	26
Trouble shooting guide	27
Specification	28

SAFETY PRECAUTIONS



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



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

Warning

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing . And that no objects filled with liquids, such as vases, shall be placed on the apparatus. The unit has dangerous high-voltage fittings inside, and do open the cover. Repairs should only be done by qualified maintenance personnel.



CAUTION :

This unit is equipped with the laser system. Do not attempt to open the enclosure to avoid exposure to direct laser radiation. The visible will radiate out when the enclosure is opened or the interlock device is released. Do not stare at the laser beam.

FCC NOTE:

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

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

FCC CAUTION:

To assure continued compliance, follow the attached installation instructions and use only shielded cables when connecting to other devices, Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

WARNING:

Changes or modifications made to this equipment, not expressly approved by us or parties authorized by us will void all the manufacture warranties.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. keep these instructions.
3. Heed all warnings.
4. follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer instructions.
8. Situate this product away from heat sources, such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for a long time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

On Power Sources:

- 1 The recorder is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the recorder itself has been turned off.
- 2 If you are not going to use the recorder for a long time, be sure to disconnect the recorder from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- 3 Before disconnecting the AC power cord, check that the recorder's hard disk is not operating (recording or dubbing) on the front panel display.
- 4 The unit plug should be kept in easy-to-plug/unplug status in daily life for convenient use.

On Recording:

Make trial recordings before making the actual recording.

On Compensation for Lost Recordings:

We are not liable and will not compensate for any lost recordings or relevant losses, including when recordings are not made due to reasons including recorder failure, or when the contents of a recording are lost or damaged as a result of recorder failure or repair undertaken to the recorder. We will not restore, recover, or replicate the recorded contents under any circumstances.

IMPORTANT SAFETY INSTRUCTIONS

About the Hard Disk Drive:

The hard disk has a high storage density, which enables long recording durations and quick access to the written data. However, it can easily be damaged by shock, vibration or dust, and should be kept away from magnets. To avoid losing important data, observe the following precautions:

- 1 Do not use the recorder in a place subject to extreme changes in temperature (temperature gradient less than 10 C/hour).
- 2 Do not apply a strong shock to the recorder.
- 3 Do not place the recorder in a location subject to mechanical vibrations or in an unstable location.
- 4 Do not place the recorder on top of a heat source, such as a VCR or AV amplifier (receiver).
- 5 Do not move the recorder with its AC power cord connected.
- 5 Do not move the recorder for one minute after you have unplugged the AC power cord. After one minute, move the recorder without shock or vibration.
- 6 Do not disconnect the AC power cord while the power is on.
- 7 Do not attempt to change the hard disk. This may result in a malfunction.

Should the hard disk be damaged, you cannot recover lost data. The hard disk is only a temporary storage space.

On Placement:

Place the recorder in a location with adequate ventilation to prevent heat build-up in the recorder.

- 1 Do not place the recorder on a soft surface such as a rug that might block the ventilation holes.
- 2 Do not place the recorder in a confined space such as a bookshelf or similar unit.
- 3 Do not place the recorder in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- 4 Do not place the recorder in an inclined position. It is designed to be operated in a horizontal position only.
- 5 Keep the recorder and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- 6 Do not place heavy objects on the recorder.
- 7 To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Note:

Television programs, films, video tapes, discs, and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or program owner.

INTRODUCTION

Welcome!

Your DVD recorder both records DVD±RWs/DVD±Rs and plays prerecorded DVD.

As a DVD recorder, the unit is capable of recording a choice of AV input signals, such as a TV program, ordinary VCD or DVD player's signals, DV camcorder recordings, etc. You can quickly access your recordings in the index Picture Screen when playing the recorded disc. Plus, the recordings you make on the recorder will play on some DVD players and DVD-ROM drivers.

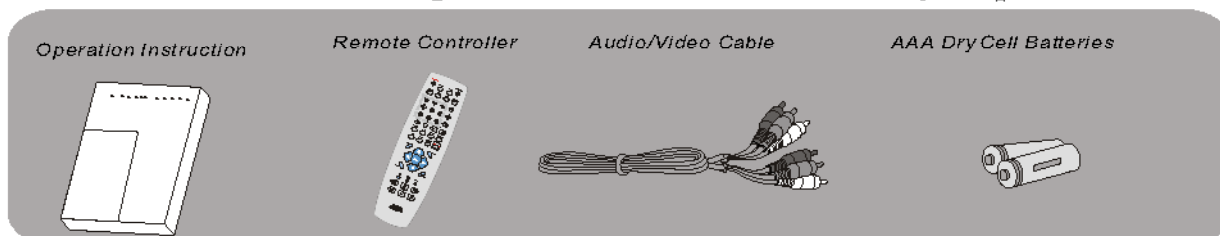
Features

- Utilizing MPEG-II Real-Time encoding and decoding technology, capable of directly recording TV and external program sources on DVD±R, DVD±RW discs.
- Capable of recording your favorite videotapes into DVD.
- Built-in DV (i. LINK/IEEE1394) input jack enables fully digital high fidelity recording of digital video camcorder signals.
- Progressive scan outputs to produce stabler and clearer pictures without flicker.
- Built-in 5.1CH Dolby Digital surround decoder, separate 5.1CH outputs, 2CH Dolby outputs, optical and coaxial output for digital audio.
- 24bit audio DAC to produce perfect acoustic fidelity.
- With normal DVD playback function, capable of playing DVD, SVCD, VCD, CD, MP3, JPEG, DVD±R and DVD±RW discs.
- Recorded discs play on normal DVD players.
- Single-side discs DVD±R/DVD±RW (4.7GB) are capable for 6 hours video recording.
- Supporting 5 recording modes: HQ, SP, LP, EP and SLP.
- OTR function enables one-touch recording, convenient to select the length of recording.
- Title index pictures of recorded disc (DVD±RW) are freely selectable.
- Multi-dubbing, multi-angle, multi-subtitle for selection.
- Built-in TV tuner with TV recorded function enables automatically channels scanning.
- With Av terminal, S-Video on the front and rear panels, DV (i. LINK/IEEE 1394), antenna and USB input terminals, convenient to record various program sources.
- With composite video, component/progressive-scan video output terminals and TV antenna output terminals, convenient to connect with various TV sets.
- Intelligent preset timing recording function enables 20 recording tasks to prevent you from missing any wonderful programs.
- Recording and output system is optional between PAL/NTSC system.
- Software intelligent upgrading function.

BEFORE YOU START

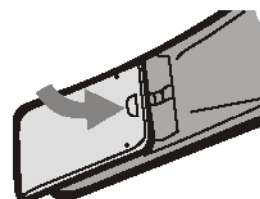
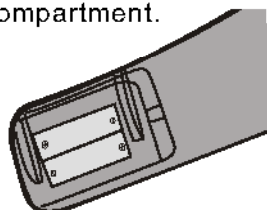
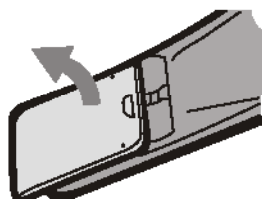
Accessories

Please confirm that the following accessories are in the box when you open it.



Putting the batteries in the remote controller

- Open the battery compartment cover on the back of the remote controller.
- Insert two AAA/1.5V batteries into the battery compartment following the indications (+, -) inside the compartment.
- Close the cover.



Using the remote controller

Keep in mind the following when using the remote controller:

Make sure that there are no obstacles between the remote controller and the remote sensor on the unit.

Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.

Remote controllers for different devices can interfere with each other. Avoid using remote controller for other equipment located close to this unit.

Replace the batteries when you notice a fall off in the operating range of the remote.

NOTE:

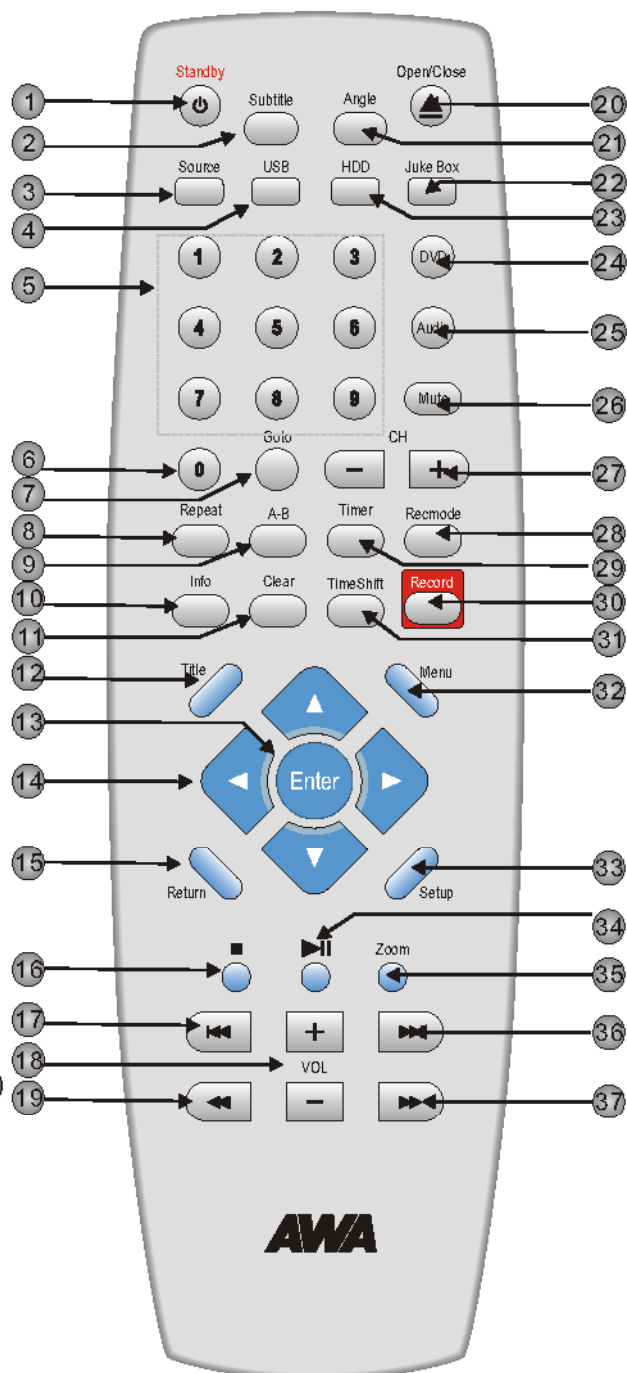
Use the batteries correctly to avoid possible leakage and corrosion. Do not touch the liquid with bare hands should leakage occur. Observe the following:

- 1 Do not use a new battery with an old battery, or batteries of different manufacturers.
- 2 Do not attempt to recharge the batteries.
- 3 If you do not intend to use the remote for an extended period of time, remove the batteries.
- 4 If battery leakage occurs, wipe out any liquid inside the battery compartment, and insert new batteries.
- 5 Do not expose the remote sensor (marked on the front panel) to strong light, such as direct sunlight or lighting apparatus. The recorder may not respond to the remote.
- 6 Please comply with governmental regulations or environmental public instruction's rules that apply to battery disposal in your country or area.

REMOTE CONTROL FUNCTION

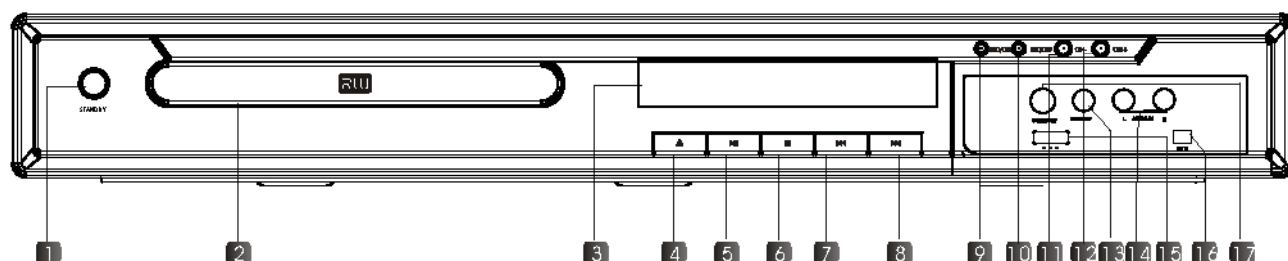
REMOTE CONTROL

- 1.Standby
- 2.Subtitle
- 3.Source
- 4.USB
- 5.1~9 Numeric Button
- 6.0
- 7.Goto
- 8.Repeat
- 9.A-B
- 10.Info
- 11.Clear
- 12.Title
- 13.Enter
- 14.Direction
- 15.Return
- 16.Stop
- 17.Previous
- 18.Volume+/-
- 19.Fast Backward
- 20.Open/Close
- 21.Angle
- 22.Juke Box
- 23.HDD(Hard Disk Drive)
- 24.DVD
- 25.Audio
- 26.Mute
- 27.Channel+/-
- 28.Recmode(to choose recording quality)
- 29.Timer
- 30.Record
- 31.Time Shift
- 32.Menu
- 33.Setup
- 34.Play/Pause
- 35.Zoom
- 36.Next
- 37.Fast Forward



PANEL

FRONT FACEPLATE CONTROL



1 STANDBY BUTTON

2 DISC DOOR

3 DISPLAY SCREEN

4 OPEN/CLOSE BUTTON

5 PLAY/PAUSE BUTTON

6 STOP BUTTON

7 PREVIOUS BUTTON

8 NEXT BUTTON

9 RECORD ON BUTTON

10 RECORD OFF BUTTON

11 CHANNEL- BUTTON

12 CHANNEL+ BUTTON

13 VIDEO INPUT

14 LEFT/RIGHT AUDIO INPUT

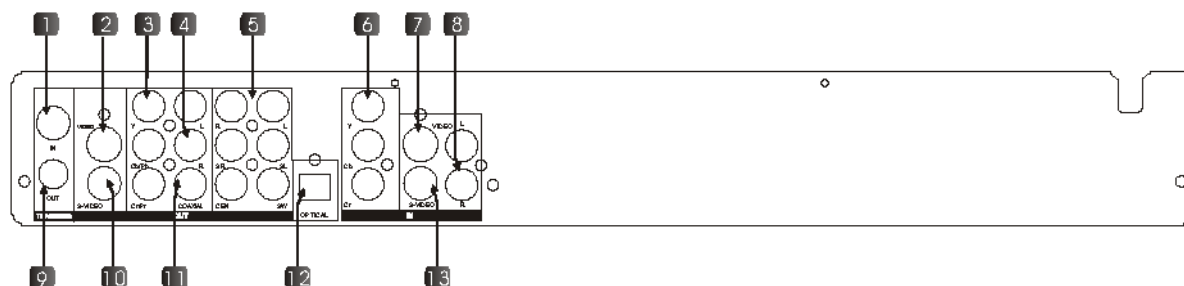
15 USB PORT

16 DV1394 INPUT

17 S-VIDEO INPUT

PANEL

REAR PANEL



- 1 TV SIGNAL INPUT. Connect to external antenna or CATV.
- 2 COMPOSITE VIDEO OUTPUT. Connect to TV.
- 3 Y,Cb/Pb,Cr/Pr OUTPUT. Connect to TV.
- 4 AUDIO OUTPUT(LEFT/RIGHT CHANNEL). Connect to TV or amplifier.
- 5 5.1CH AUDIO OUTPUT. Connect to analog Audio inputs of Audio AMP. If you want to connect to TV, connect front L and R to Audio inputs of TV.
- 6 Y,Cb,Cr INPUT. Connect to DVD.
- 7 COMPOSITE VIDEO INPUT(REAR PANEL). Connect CVBS to CVBS output of VCR or Set-Top Box.
- 8 AUDIO INPUT(REAR LEFT/RIGHT CHANNEL). Connect to stereo output.
- 9 TV SIGNAL OUTPUT. Connect to TV.
- 10 S-VIDEO OUTPUT. Connect to DVD player.
- 11 DIGITAL AUDIO-COAXIAL OUTPUT. Connect COAXIAL out to Digital Audio input (coaxial type) of Audio AMP.
- 12 DIGITAL AUDIO-OPTICAL OUTPUT. Connect OPTICAL out to Digital Audio input (optical type) of Audio AMP.
- 13 S-VIDEO INPUT. Connect to DVD player.

CONNECTION

BEFORE MAKING CONNECTIONS

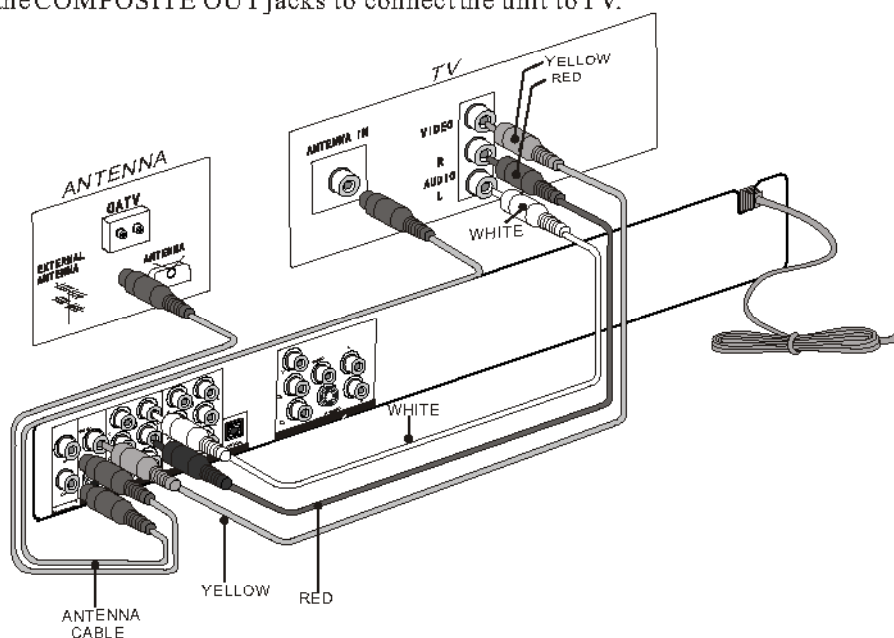
- 1) Do not connect the AC power cord until all other connections have been made.
- 2) Connect VIDEO OUT of the unit directly to the video input of your TV. Connecting VIDEO OUT of the unit to a TV via a VCR may cause a viewing problem when playing back a copy-protected disc. You may also have a viewing problem when connecting the unit to an integrated TV/Video system.

Connecting the Antenna cable and Television

Before using the unit, follow the steps to connect the unit to the antenna cable and TV.

Connecting to a TV with COMPOSITE jacks

You can use the COMPOSITE OUT jacks to connect the unit to TV.



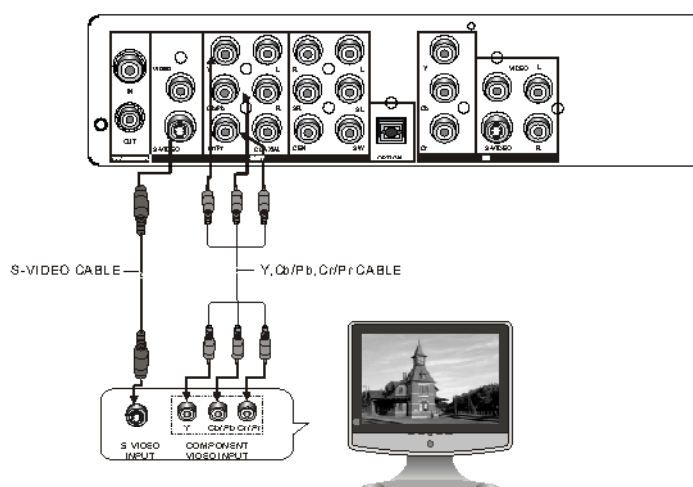
VIDEO CONNECT

S-VIDEO

Use the S-video cable to connect the s-video output of this unit to the TV/monitor S-video input.

COMPONENT VIDEO (YUV)

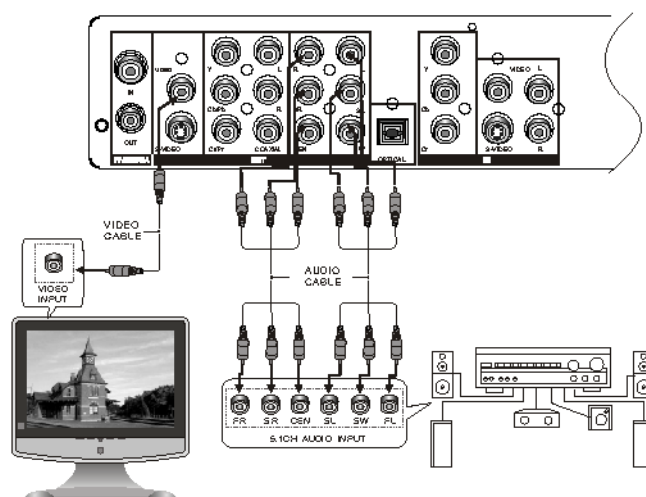
Use 3-core AV cable to connect the component output terminals of this unit to the corresponding TV/monitor input.



CONNECTION

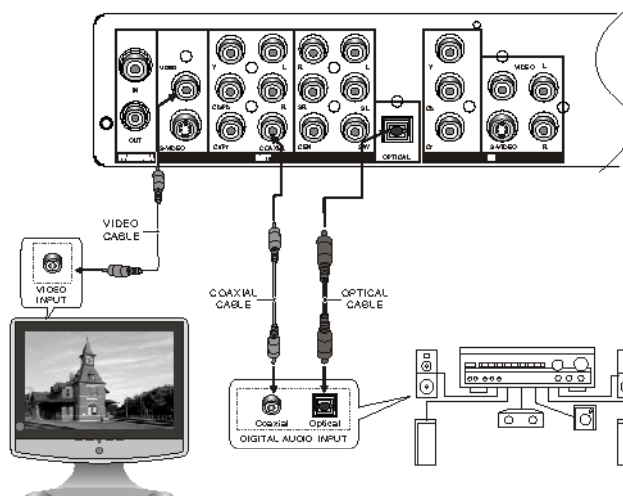
CONNECTION FOR 5.1 CH AUDIO OUTPUT

Enjoy Dolby ProLogic Surround by connecting an amplifier and speaker system (right and left front speakers). Enjoy Dolby AC-3 Surround by connecting an amplifier and speaker system with 6-channel analog audio output (right and left front speakers, right and left rear speakers, centre speaker, subwoofer speaker) from rear panel of the DVD video recorder. The connect method is same as the Dolby Prologic, you just need connect 6 channel instead of 2 channel.



CONNECTION FOR DIGITAL AUDIO OUTPUT

Enjoy the dynamic sound of Digital Stereo by connecting an amplifier equipped with digital audio input and speaker system (right and left front speakers). You could select the Digital Output Stream in SETUP MENU. When in RAW mode, DOLBY and DTS bitstream is outputted, and in LPCM mode, two channel LPCM digital audio signal is outputted on COAXIAL or OPTICAL adapt.



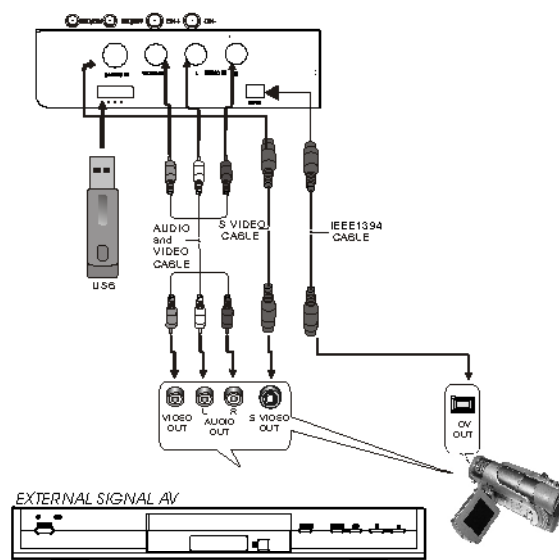
CONNECTION

SIGNAL SOURCE INPUT CONNECT

● Connection For AV Signal(A/V FRONT INPUT) and USB connect

Connect your recorder with the S-Video cable, if the Signal Source has an S-Video output.

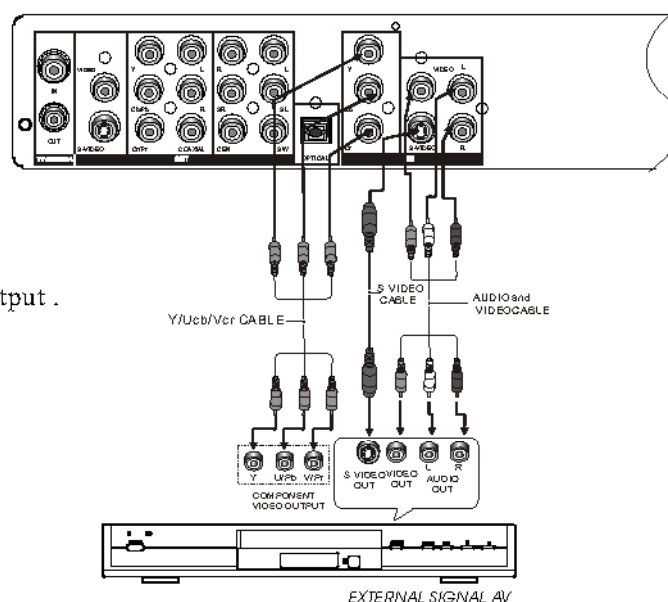
Do not connect the yellow video cable if using the S-Video cable.



● Connection For AV Signal (A/V REAR INPUT)

Connect your recorder with S-Video cable and connect your recorder with Y/UPb/VPr cable. If the signal source has an S-Video output.

Do not connect the yellow Video cable if using the S-Video cable.



NOTE:

1. Refer to the manual of the connected system.
2. Turn off the power and unplug both units before setting up any connections.

ADVANCED PLAYBACK

Fast Forward/Backward

- 1 Press ◀ or ▶ button during play mode to fast backward or forward play.
- 2 Press *PLAY* button to resume normal playback.

Skip Forward/Backward

Use this function to move to the next or previous chapter for DVD and MPEG4, track for VCD, and Audio CD.

- 1 Press ◀ button during play mode. The DVD Recorder starts playing the previous chapter or track.
- 2 Press ▶ button during play mode. The DVD recorder starts playing the next chapter or track.

Zoom Screen

Enlarges DVD/VCD/MPEG4/SVCD screen image up to 2 times.

- 1 Press *ZOOM* button during playback. The picture is zoomed.
- 2 Each time you press *ZOOM* button, the zoom mode will be changed : 2x/3x/4x.
- 3 You can move the image by using ◀, ▶, ▲, ▼ button.
- 4 To cancel the zoom mode, press *ZOOM* button repeatedly until the player resume to normal playback.

Repeating a Title, Chapter

Use this button to repeat the chapter/title for DVD or track/disc for VCD and Audio CD.

- 1 Press *REPEAT* button during playback. The repeat information is displayed on the screen.
- 2 Each time you press *REPEAT* button, the repeat mode is changed as follows.
CD/MPEG4: single, repeat one, random, repeat folder and folder.
DVD: title, chapter, all and off.
VCD/ SVCD: track, all and off.

Selecting Audio Languages

It is possible to change the audio language to a different language from the one selected at the initial settings. This operation works only with discs on which multiple audio languages are recorded.

If the loaded disc supports multiple audio languages, you can select the audio language.

- 1 Press *AUDIO* button during playback. The audio information is displayed on the top of screen.
- 2 Each time you press *AUDIO* button, the audio language is changed.

NOTE:

Language function is a disc dependent. In this case, the language should be selected via the disc menu.

ADVANCED PLAYBACK

Selecting Subtitles

It is possible to change the subtitle language to a different language from the one selected at the initial settings. This operation works only with discs on which multiple subtitle languages are recorded.

If the loaded disc supports multiple subtitles, you can select the subtitle language.

- 1 Press **SUBTITLE** button during playing.
The subtitle is displayed on the screen.
SUBTITLE of variety is up to disc content.
- 2 Each time you press **SUBTITLE** button, the subtitle language is changed.

DV Function

- 1 Connect DV with this recorder through DV terminal.
- 2 Press **SOURCE** button to change the signal source to DV monitor state.
- 3 Press the **PLAY** button to play.

Switching the Camera Angle

When a DVD contains recorded multiple angles of a scene, you can select the Angle function.

- 1 Press **ANGLE** button during playing.
Available angles of the current scene will be displayed on the top of screen and the angle is changed.
- 2 Each time you press **ANGLE** button, the angle is changed.

NOTE:

You can only change the angle for DVD that provide multiple angles of scenes.
The angle function will not work on DVD video discs that do not contain recorded multiple angles.
The number of angles varies from disc to disc.

A-B Repeat

Use this function to repeat playback of a selected segment. This is very useful for studying foreign languages because it repeats the selected segment until canceled.

- 1 Press **A-B** button at the point of where repeat play is to start.
The starting point of your selected segment is set up.
- 2 Press **A-B** button again at the point where repeat play is to end.
The ending point is set up and the segment is played repeatedly from A to B.
- 3 Press **A-B** button again to cancel the repeat.

NOTE:

We recommend you set up the desired segment within a minimum 5 seconds for smooth repeat play.

DVD Play

When the unit is not in DVD play mode, press **DVD** button and **PLAY** button to enter the DVD mode to play.

HDD Play

When the unit is not in HDD (Hard Disk Drive) play mode, press **HDD** button and **PLAY** button to enter the HDD mode to play.

Mute the Disc

When playing disc, press **MUTE** button to mute the audio output. And press it again to resume.

ADVANCED PLAYBACK

Direct Search

You can select a specific chapter or title to play.
Also you can move to a specific time in a track or title.

- 1 Press **GOTO** button during playback.
The playback information appears on TV screen.

2 Time Search

Select **TIME** by pressing **GOTO** button.
Enter the time by using numeric key 0 to 9 button.

For example, if you want to go to 0:31:25, press the numeric buttons in this order (0, 3, 1, 2, 5) button.

Press **ENTER** button to confirm. It starts to play back from the specified time.

Disc Information

Press **Info** button to choose an available title, chapter, track, audio etc. by inputting numbers.

Source Select

Press **SOURCE** button to choose the input source.

USB Play

- 1 You must put the U disc into the USB interface on the main unit and press **USB** button.
- 2 If the U-Disc recognized by the system, the bottom corner of the screen will appear **USB** symbol.
- 3 Then press the **PLAY** button on the remote controller to **USB** play mode, and you can read the content of the U disc.

Note: If in no disc mode, input **USB** and you can select item to play directly.

Time Shift

Timeshifting is the technique of recording television/satellite/cable transmissions etc. for later viewing behind actual broadcast time, to provide a buffer for fast-forwarding through commercials.

When watching a program, press **Timeshift** button to enter timeshift mode, and press **PLAY** button to continue playing. The system will store the played content.

Press fastbackward button(◀) to replay the content.

Note: The first time you power on the system, you will be asked to go through the system setup. After that the system has scanned and stored the channel information, language, and other changes to its default operation mode.

Juke Box

When MP3, picture file is copied in the HDD and USB, you need to press [**JukeBox**] button to enter and play the files.

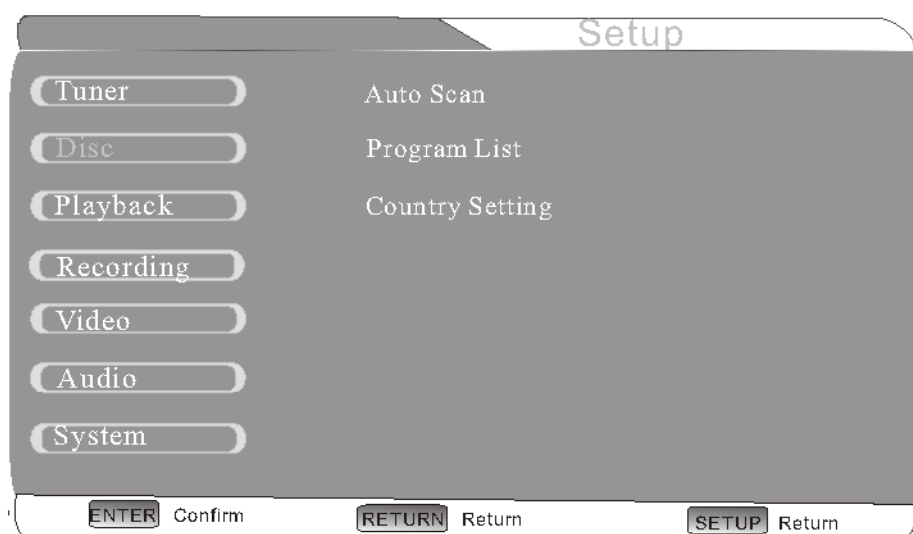
USING THE SETUP MENU

DISPLAYING THE SETUP MENU SCREEN

The SETUP Preferences. The selected category will provide you the setting details using the succeeding screen.

1. Press **SETUP** key to access the setup menu.
2. Press direction keys to (Highlight) an item, then press **ENTER** to confirm.
3. Press **SETUP** key again to exit setup menu.

Main Page:



Tuner Setup Page:

In this setup page, user can set “Auto Scan”, “Program List” and “Country Setting”.

Auto Scan: If choosing this item, system will search the channels automatically.

Program List: If choosing this item to enter, you can set “Skip” and “Decoder” or rename the channel or set the channel manually.

Country Setting: In this item you can set the country.

Disc Setup Page:

In this setup page, there are five items for selection “Format”, “Finalize”, “Protect”, “Disc Label” and “Disc Info”.

Format: If choosing this item, you can format the disc and erase all contents in the disc.

Finalize: Once you have finalized a disc recorded in Video mode, you can not edit or record anything else on that disc (DVD-/R).

USING THE SETUP MENU

Protect: Select this item, can protect the inserted disc from being recorded over. If you want to record over a protected disc, if it was protected, select this item to unprotect it.

Disc Label: Select this item, can add a label for the disc with the soft keyboard, for details, please refer to the “Rename” section (page 23).

Disc Info: Select this item to view the disc information.

Playback Setup Page

In this setup page, there are nine items for selection “Menu Language”, “Audio Language”, “Subtitle Language”, “TV Screen”, “Angle Mark”, “Last Memory”, “Close Caption”, “Parental Control” and “Change Password”.

Menu Language: Select this item to set the menu language.

Audio Language: Select this item to set the audio language.

Subtitle Language: Select this item to set the subtitle language.

TV Screen: Select this item to set the TV screen: 4:3 PS/4:3 LB/16:9 according to your requirement.

Angle Mark: It will show the ANGLE mark when playing DVD disc with multi-angle view if selecting ON, you can adjust the angle.

Last Memory: When this function is on, the unit can memorize the time elapsed from the last time you played the disc. When next playing, it will resume playing from the memorized time.

Close Caption: This function doesn't work when the disc without caption.

Parental Control: DVD equipped with the parental lock function are rated according to their content. The content allowed by a parental lock level and the way a DVD can be controlled may vary from disc to disc.

For example, if the disc allows it, you could edit out violent scenes unsuitable for children and replace them with more suitable scenes, or lock out playback of the disc all together.

Change Password: Change the password. The initial factory password is 1369. You can set your own password.

If you forget your own password, you can use 1369 as the general password.

Recording Setup Page:

In this setup page, there are two items for selection “Recording Quality” and “Chapter Mark”.

Recording Quality: Select this item to enter, you can set the recording quality: HQ/SP/LP/EP/SLP/SEP.

Chapter Mark: Select this item to enter, you can set the chapter mark interval time: off/10min/15min/20min, the chapter mark will be added according to the set time interval when recording.

Video Setup Page :

In this setup page, there are six items for selection “TV Type”, “Scan Mode”, “Brightness”, “Contrast”, “Saturation” and “Component”.

TV Type: Select this item to enter, can choose the TV type (Auto/NTSC/PAL) according to your requirement.

PAL: This system is used in CHINA, EUROPE, HONGKONG etc.

Auto: The DVD video system is auto switched according to the disc system.

NTSC: This system is used in USA, TAIWAN, JAPAN etc.

USING THE SETUP MENU

Scan Mode: Select this item to enter, can choose scan mode.

Brightness: Select this item to enter, can adjust the brightness by pressing Left/Right direction key.

Contrast: Select this item to enter, can adjust the contrast by pressing Left/Right direction key.

Saturation: Select 'Saturation' by using the up/down direction button, then press OK to enter. You can adjust the saturation by pressing the left/right direction button.

Component: Select this item to enter, there are two choices (off/ YUV) for your selecting, you can choose one according to your requirement.

Audio Setup Page:

In this setup page, there are sixteen items for selection "Downmix", "Front Speaker", "Center Speaker", "Rear Speaker", "Subwoofer", "Digital Output", "Test Tone", "Dialog Gain", "Panorama", "Dimension", "Center Width", "Dual Mono", "PRO logic II", "PRO logic II Mode", "LPCM OUT" and "Dynamic".

Downmix:

LT/RT: The audio out is Left and Right channel format even if the original sound is 5.1CH format.

STEREO: The audio out format is stereo even if the original sound is 5.1CH format.

V-SURR: The audio out is virtual surround sounds (only for 5.1CH player).

5.1: Turn off DOWNMIX function. If playing 5.1CH discs or the unit is connected with 5.1 channel amplifier, this item should be selected. (only for 5.1CH player)

FRONT, CENTER, REAR and SUB-WOOFER SPEAKER (No this item in 2CH player)

If your speaker system includes the above speakers, you can set these items according to the real speaker states. In DOWNMIX is set OFF, these setups don't work.

Digital Output: In this item, there are three choices (RAW/ PCM/ off) for your selecting. You can choose one according to your requirement.

Dialog Gain: Choose this item to enter to change dynamic level by pressing left/right direction key.

Panorama: In this item, you can set it On or Off.

Dimension: Choose this item to enter to change dynamic level by pressing left/right direction key.

Center Width: Choose this item to enter to change dynamic level by pressing left/right direction key.

USING THE SETUP MENU

Dual Mono: In this item, there are four output modes in Dolby digital output, you can select Stereo, Left Mono, Right Mono or Mix Mono.

PRO logic || : In this item, you can set it On or Off or Automatic.

PRO logic || Mode: In this item, there are four choices (Movie/ Music/ PRO Logic/ Automatic) for your selecting.

You can choose one according to your requirement.

LPCM OUT: In this item, there are two choices (48k/96k) for your selecting. You can choose one according to your requirement.

Dynamic: In this item, there are three choices (full/ middle/off) for your selecting. You can choose one according to your requirement.

System Setup Page

In this setup page, there are six items for selection

“ OSD Language” , “Clock Setting” ,
“Time System” , “ Screen Saver” ,
“ Format HDD” and “Load Default” .

OSD Language: Choose this item to enter and select the on-screen display language.

Clock Setting: In this item, you can input new date and time with digital keys.

Time System: In this item you can set the time system: 12 hour/24hour.

Screen Saver:

If the Screen Saver is set ON and the unit is switched on without a disc playing for several minutes, a moving picture appears on the screen, and the unit will go to standby mode after 20 minutes.

You can press *STANDBY* key on the remote controller to wake it up.

Format HDD: Choose the item to format HDD and all data will be erased, system will appear a confirm dialogue box.

Load Default: Choose it to resume the factory setting.

RECORDING OPTIONS

CHANNEL SEARCH

To record TV programs, you should search TV channels first.

- 1 Press **SETUP** to access the setup menu.
- 2 Press **UP/DOWN** direction key to highlight "Tuner" and press **ENTER** to enter its submenu.
- 3 Use the **RIGHT/LEFT** button to highlight "Auto Scan" and press **ENTER** button to confirm.

It will search channels automatically.

During auto-searching, press **ENTER** to cancel searching.

- 4 To browse the found channels, first press **UP/DOWN** to select the Program List to enter browse. You can skip a channel or set decode.
- 5 Press **SETUP** again to exit.

NOTE:

- For PAL-I/D/K/B/G/L TV system, the channel numbers 1-58. Different audio frequency adapt to different system.

NORMAL RECORDING

- 1 Make connections illustrated as page 10-12.
- 2 Insert a recordable DVD+/-RW or DVD+/-R disc into the recorder.
- 3 Press **SOURCE** to select the input source which you have connected as step 1.

Front CVBS: Front Audio/Video Input (on the front panel)

Rear CVBS: Rear Audio/Video Input (on the rear panel)

S-VIDEO: Rear/front S-Video (on the front/rear panel)

Each channel (you can select it by pressing **CHANNEL+/-** or input the assigned number of the channel to select your desired one directly.

DV: Digital Video (on the front panel)

YUV: YCbCr (on the rear panel)

Tuner: TV (on the rear panel)

- 4 Press **SETUP** to access the setup menu. Press **UP/DOWN** direction key to highlight "Recording" and press **ENTER** to enter. Press **RIGHT/LEFT** direction key to highlight the **QUALITY**, and press **ENTER** and **UP/DOWN** direction key or press **REMODE** button in the remote control to select the record quality. After your selection, press **ENTER** to confirm it.

HQ : High Quality, you can record for up to 1 hour in a blank disc. And up to 36 hours in HDD.

SP: Standard play, you can record for up to 2 and half hours in a blank disc. And up to 70 hours in HDD.

LP: Long play, you can record for up to 3 hours in a blank disc. And up to 104 hours in HDD.

EP : Extended Play, you can record for up to 4 hours in a blank disc. And up to 140 hours in HDD.

SLP : Super Long Play, you can record for up to 6 hours in a blank disc. And up to 208 hours in HDD.

In the "Recording" setup menu, choose the "Chapter Mark" to set the chapter mark interval time.

RECORDING OPTIONS

NOTE:

The selection of record quality is worked according to the RECORD MODE selection.

- 5** If you want to stop recording, press **REC STOP**.
If the DVD+/-RW or DVD+/-R is new, it will take about two minutes to stop.

NOTE:

For a new DVD+R/RW, it will be formatting before recording automatically.

ONE-TOUCH RECORD

- 1 During normal recording, press **RECORD**, the recorder will enter the record mode.
- 2 The record time will extend for another 30 minutes with each press.

The length of recording time is determined by disc capacity and record quality. With your setting, it will exceed the capacity of the disc, OTR will be cancelled, and switched to normal record.

- 3 If you want to stop recording, press **REC STOP** button.

NOTE:

You may be could not enter the record state for the difference between disc format and TV format. Please change another disc or change the signal input format.

TIMER RECORD

For timer recording, the clock, date, and stations must be set correctly.
Load a DVD+/-RW or DVD+/-R disc with enough free space for the recording.

- 1 Press *TIMER*, the record scheduler will pop up. Press it again to exit.

Timer Recoding List								1/1	01/01/2006	02:40:28
Target	Date	Start	Length	Source	Quality	Nicam	Repeat	Result		
---	--/--	--	--	--	--	--	--	--		

- 2 Press *ENTER* button to enter the timer edit state. Press *LEFT*/*RIGHT* direction button to choose item and then press *UP*/*DOWN* button to select the appropriate choice. Lastly press *ENTER* button to confirm.

NOTE:

The selection of record quality is worked according to the RECORDMODE selection.

- 3 Press **STANDBY** button into standby mode to wait to start recording.
- 4 In five minutes before it is ready to record the scheduled, it appears a Record Prompt dialog, affirm by selecting “OK” option, abolish by selecting “CANCEL” option, and if without operation for a moment it will record the scheduled.

NOTE:

1. The timer recording function will be effective under standby states.
2. In standby mode, your recorder can wake up in 10 minutes before recording.
3. During recording, you can press **STOP** to exit.

RECORDING OPTIONS

CLOCK SETUP

- 1 Press *SETUP* to access the setup menu.
- 2 Use *UP/DOWN direction button* to highlight the *SYSTEM* option . Press *ENTER* key to enter its menu.
- 3 Use *UP/DOWN* to highlight the “*Clock Setting*” and press *ENTER* button to enter to adjust.
- 4 With Date(dd/mm/yyyy)highlight, input the local date by inputting numbers.
- 5 With Time(hh:mm:ss) highlighted, input the local time by inputting numbers, press *ENTER* again to save the setting.

NOTE:

If you want to cancel input, press *RETURN*. The time information will not be cancel after power off the recorder.

DVD EDITING

Editing a DVD+/-RW or DVD+/-R disc

Insert a recorded DVD+/-RW or DVD+/-R disc on the disc tray.

Press **ENTER** button to access the disc editing menu.



Enter the disc operation menu. With each icon highlighted by pressing **UP/DOWN** direction key, the corresponding description of each operation will be displayed on the screen, such as **"Play"**, **"Erase"**, **"Protect"**, **"Edit"**, **"Dubbing"** and **"Config"**. The grey item is not available. Press **ENTER** to run the operation.

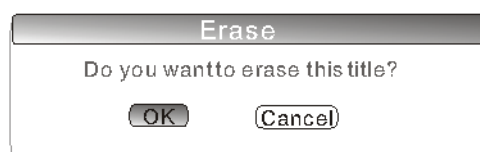
Play

You can playback the entire disc from the beginning to the end.

Press **ENTER** button after selecting **"Play"** option by using **UP/DOWN** direction button. It starts to play back the disc.

Erase

If you want to erase a title.
Choose this item and press **ENTER** or the Right direction button to enter its submenu: **"Erase Title"** and **"Erase All"** will appear. Choose your desired option to enter, the unit will display the following dialogue box if choose the Erase Title:



Choose **OK** option and press **ENTER** to erase the title,

Dubbing

In this section, dubbing refers to copying a recorded title on the internal hard disk drive (HDD) to another disc.

Prior to selecting programs for dubbing, you need to insert a recordable disk into the tray. The recorder may take a few moments to format the disk if it is used for the first time, determine compatibility and free recordable space.

1 From HDD Title list screen (press **HDD**), use **UP/DOWN** direction button to navigate the list to select a title and press **ENTER**, then an edit menu will appear on the screen. Press **UP/DOWN** direction button to select **"Dubbing"** to copy the selected title.

2 If the program you are about to select is determined to be bigger than the space available on the disk, the recorder will indicate there are not enough space for copying.

Protect

Select a title, and choose protection option to enter, it will pop up a dialogue box:



When a title is protected, you can play the title or dub it to DVD, but can not do any edit operation (erase and edit).

If a title is protected, **"protect"** item will become **"unprotect"**. Choose it to unprotect a title.

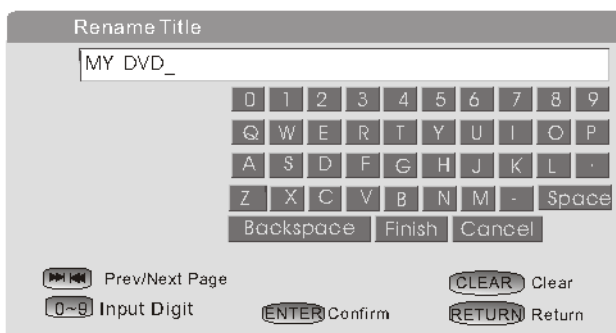
DVD EDITING

Edit (DVD+/-RW/DVD+/-R)

Choose “Edit” item and press *ENTER* enter its submenu, you can “renamet” or “dividet” or “A-B eraset a title” or “Set Idx Pic” .

Rename:

Press *ENTER* button after selecting “Rename” option to enter.
The keyboard will show on the screen.



Select letter which you want to input by using UP/DOWN/LEFT/RIGHT direction button, and press *ENTER* button to confirm it.

The control bars of the last line in the keyboard is for edit command.

If the inputting of letters is finished, press *ENTER* button after selecting “Finish” .

Divide:

Choose a title which you want to divide to enter its edit menu.

Select “Divide” option to enter and press *PLAY* to play. Then press *ENTER* where you want to divide the title. Lastly select “OK” press *ENTER* to divide the title.

A-B Erase:

You can select a section (scene) in a title and erase it. Note that erasing scenes in a title can not be undone.

Choose a title and enter its edit menu.

Select “A-B Erase” option to enter.

Press *PLAY* to play.

Select “Set Point A” and press *ENTER* to set point A.

Select “Set Point B” and press *ENTER* to set point B.

Select “OK” and press *ENTER* to erase A-B section.

Set Index Picture:

Press *ENTER* button after selecting “Set Idx Pic” option to enter.

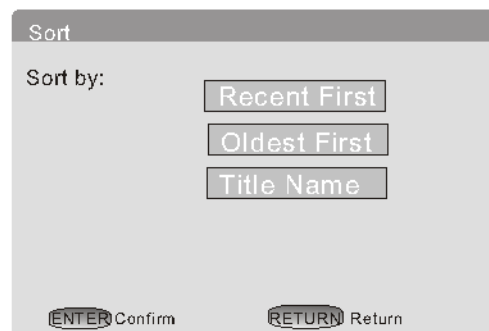
The keyboard will show on the screen.

Config

In this item, you can sort the titles.

Select “Config” and press *ENTER* to enter its submenu.

Select “Sort” and press *ENTER* to enter, the following diag. Box will appear.



You can select one mode to sort the titles.

HDD RECORDING

Recording to HDD

If you press *HDD*, you will be in *HDD* mode(as opposed to DVD mode).

Recording Quality

You can select from up to six record quality settings to define the picture quality of the recordings and the amount of space you want to use on the HDD. Higher quality recordings will consume more space and low quality recordings will consume less space on the HDD.

Record Quality	Recording Time (4.7GB,DVD)	Recording Time (160GB,HDD)	Video Quality
HQ(High Quality)	1 Hours	36Hours	Best
SP(Standard Play)	2 Hours	70 Hours	Good
LP(Long Play)	3 Hours	104 Hours	Normal
EP(Extended Play)	4 Hours	140 Hours	Normal
SLP(Super Long Play)	6 Hours	208 Hours	Low

Recording Source

The following options are available:

Rear-AV
Rear S-Video
Rear-YUV
Antenna
Front-AV
Front S-Video
DV Input

- 1 Press *SOURCE* button to change the video source and select one of the above.

NOTE:

If you are recording from a rear source, make sure your audio connections are made to the rear audio inputs. If you are recording from a front source, make sure your audio connections are made to the front audio input.

Other operation, for details, please refer to the DVD recording corresponding chapter.

Timer Recording

The recording can be onto HDD . This feature is useful if the specific frequency, time, date and channel of a program you want to record is known in advance.

Its operation, for details, please refer to the DVD timer recording section (page 21).

HDD EDITING

Playback from HDD

Firstly press *HDD* button and *PLAY* button in the remote control to enter the HDD play list, secondly press direction key to choose one item, then press *PLAY* button to play. Press *MENU* button to exit.

HDD Edit

Eight operations are available. All can be accessed from the title list menu. Press *ENTER* button to get the pop-up menu. Then use the *UP/DOWN* direction button to highlight your desired option and press *ENTER* to confirm. The options are: “Resume Play”, “Play”, “Erase”, “Dubbing”, “Protect”, “Edit”, “Set Attribute” and “Config”.

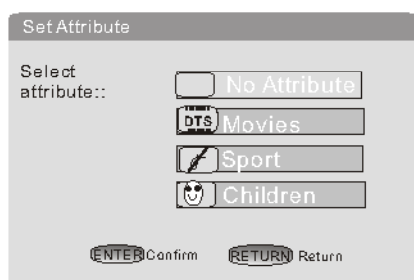
As the following diagram:



For “Play”, “Erase”, “Protect”, “Dubbing” and “Edit” operation, for details, please refer to DVD edit section (page 23).

Set Attribute

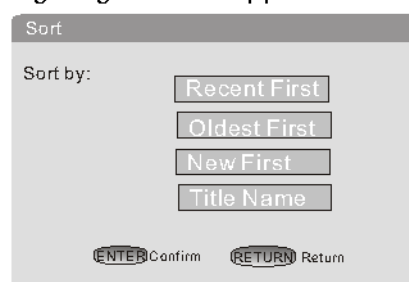
Select “Set Attribute” to enter, the following diag. Box will appear, and you can select one item to set the attribute.



Config

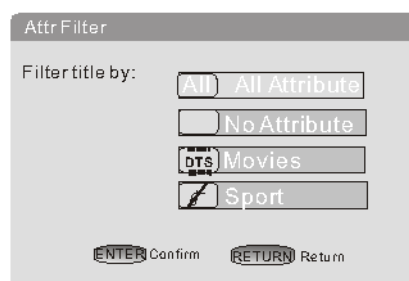
In this item, you can sort the titles. Select “Config” and press *ENTER* to enter its submenu (Sort, Attr Filter and Attr Name).

Select “Sort” and press *ENTER* to enter, the following diag. Box will appear.



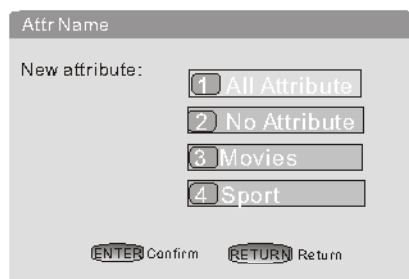
You can select one mode by pressing up/.down direction key to sort the titles.

Select “Attr Filter” and press *ENTER* to enter, the following diag. Box will appear.



You can select one mode by pressing up/.down direction key to filter the titles.

Select “Attr Name” and press *ENTER* to enter, the following diag. Box will appear.



You can select one mode by pressing up/.down direction key to set it.

TROUBLE SHOOTING GUIDE

Check the following guide for a possible correction to a problem before contacting customer service.

Symptoms and Correction

Symptom	Correction
No power	<ul style="list-style-type: none"> ● Connect the power plug into the wall outlet securely. Then press ON/STANDBY/OFF button
No picture	<ul style="list-style-type: none"> ● Verify the connection from the DVD video output to the TV video input. Then switch TV to appropriate mode (video 1) ● Connect the video cable into the jacks securely. Refer to your television owners manual.
No sound	<ul style="list-style-type: none"> ● Connect the audio cables into the jacks securely ● Verify the connection from the DVD audio output to the TV or receiver audio input. Then switch to the appropriate source on the receiver. Refer to your audio amplifier owners manual.
Black & White picture	<ul style="list-style-type: none"> ● Damaged S connector (bent pin)
The playback picture has occasional distortion	<ul style="list-style-type: none"> ● A small amount of picture distortion may appear because of a poor quality video/sound transfer to disc. This is especially true of some discs manufactured between 1997-1998.. ● Scratched disc
Brightness is unstable or noises are produced on playback pictures	<ul style="list-style-type: none"> ● Connect the DVD player directly through the TV and not through any other source. What you're viewing is the effect of the copy protection circuitry required on all DVD players. ● If you don't have a video input on your TV, you must purchase an RF adapter from your dealer
The DVD video player does not start playback	<ul style="list-style-type: none"> ● Place the disc with the graphics side up. ● Place the disc on the disc tray correctly inside the guide. ● Make sure the disc is free from scratches & fingerprints. ● Press the SETUP button to turn off the menu screen. ● Cancel the parental lock function or change the parental lock level. (The Pre-set password is 3308.) ● Turn the power off then disconnect the power plug and reinsert it back into the wall. Retry again.
MP3 won't read disc or it skips	<ul style="list-style-type: none"> ● Return disc as the software edition used may not be compatible with the player. Check web site for instruction. ● Use new editions of software such as Voyetra Audio station 4, Adaptec's "EasyCD Creator, NTI or Roxio's Toast Titanium. ● Make sure MP3 file are not encoded with a variable bit rate such as provided by Real Networks.
The recorder cannot record.	<ul style="list-style-type: none"> ● The type of the disc is wrong, it's not a DVD+RW or DVD+R disc. ● The disc is recorded full. ● The disc (DVD+R or DVD+RW) is locked, it should be unlocked. The DVD+R has been finalized. ● Different format (NTSC/PAL) between the disc and the signal.
Some keys do not work	<ul style="list-style-type: none"> ● The type of the disc is wrong, it's not a DVD+RW or DVD+R disc. ● The unit is in record mode or it is recording.
The image is distorted.	The setup of Interlaced or Progressive is wrong. Press the I/P button to switch from each other.
Can not stop recording	Disc damaged, Replace disc, Re-power on the machine/recorder.
System does not work	Some function not compatible Re-power on the machine/recorder.

SPECIFICATION

Power supply	AC ~100-240V/50/60Hz
Power consumption	45W
TV system	PAL/NTSC
Laser wave length	650nm,780nm
Audio frequency range	DVD: 4Hz~22kHz (48kHz PCM) 4Hz~44kHz (96kHz PCM) CD: 4Hz~20kHz
S/N ratio	≥90dB
Audio dynamic range	≥90dB
Operating conditions	Temperature:0~40°C, operation flat, horizontal
Video output	1.0V (P-P) , 75Ω
S-video output	(Y) 1.0V(P-P),75Ω (C) 0.286V(P-P),75Ω
Audio output(analog audio)	2.0V(rms)
TV standard	PAL I PAL D/K PALB/G SECAM L/L SECAM D/K SECAMB/G
Storage Capability	160GB