

HDV

RECORDER

BRAIN
wave

USER'S MANUAL

HDVR1190



I. SAFETY INSTRUCTIONS



Read all the safety instructions before first use of your HDD video recorder.

POWER SOURCE

You should only plug the appliance into a 100V to 240VAC, 50Hz/60Hz supply.

Safety considerations

- Position the power supply lead and other leads so that they are not likely to be walked on or pinched by things placed on or against them.
- Do not use the appliance in humid or damp conditions. Do not allow the appliance to get wet, i.e. dripping or splashing, as this may be dangerous. Do not place water filled object, such as vases, on top of the appliance.
- Make sure that no naked flame sources, such as candles, are placed on top of the appliance.

Cleaning

Unplug the appliance before you clean it.

- Do not use liquid or aerosol cleaners.
- Clean your appliance with a soft damp (not wet) cloth.

Ventilation

- Any slots and opening on the appliance are for ventilation. Do not cover or block them as it could lead to overheating.
- NEVER let children push anything into the holes or slots on the case.

Servicing

There are no user serviceable parts in your HDD video recorder.

When servicing, refer to qualified service personnel.

Battery disposal

Please ensure batteries are disposed of safely.

Electrical information

Make ensure that the voltage of your electricity supply is the same as that indicated on the rear plate. This appliance may be fitted with a non-rewireable plug. If you need to change the fuse in a non-rewireable, the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement is obtained (available from the appliance manufacturers). It is important that the colour of the replacement fuse cover corresponds with the colour marking on the base of the plug.

If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be removed and an appropriate plug fitted following the wiring instructions below. The plug removed must be disposed of safely as insertion into a main socket is likely to cause an electrical hazard.

If a 3 Amp (BS1363) plug is used, a 3 Amp fuse (BS1362) must be fitted, or if any other type of plug is used a 3 Amp fuse must be fitted, either in the plug, adaptor or on the distribution board.

II. GETTING STARTED

CHECK ACCESSORIES

Remove your HDD video recorder carefully from the box, You may wish to store the packaging for future use.

In the box

Included in this package should be:

Table 1

HDD video recorder	1
Remote controller	1
AAA batteries	2
User's manual	1
SCART cable	1
RF cable	1

Read these instructions before use.

Switching on

Connect the 2-pin main plug into the main socket and switch on.

Press the power button on the front of the unit to turn the HDD video recorder on or off.

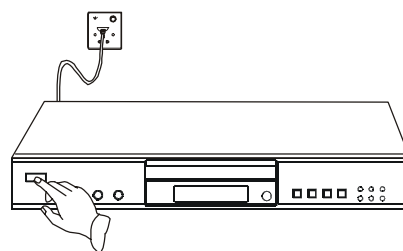


Figure 1

USE REMOTE CONTROLLER

1. Open the battery compartment.
2. Insert two AAA batteries, make sure to match “+” and “-” of the batteries to the marks in the battery compartment.
3. Close the battery compartment.

Notes:

1. Batteries can last for about 6 months generally. Change the batteries of the remote controller if it does not work.
2. If the remote controller is not used for a long time, remove the batteries to prevent battery leakage.

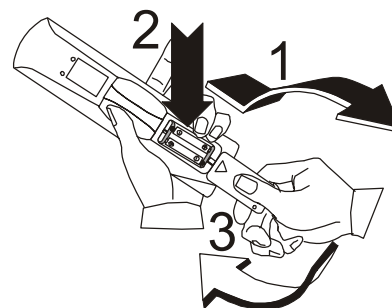


Figure 2

CONTROL HDD VIDEO RECORDER

Point it at the front of the HDD video recorder; press the relevant button to choose demand function.

The remote controller will work up to 6 metres from the HDD video recorder and at an angle of up to 45 degrees.

Do not block the path of the beam from the remote controller to the HDD video recorder, dark walls direct sunlight or bright light will reduce the remote control sensitivity.

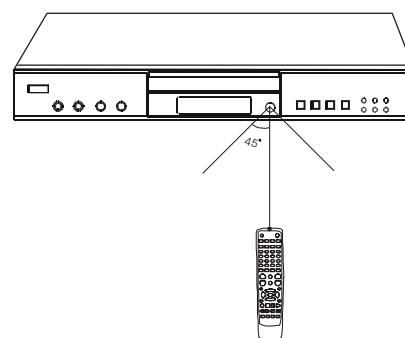


Figure 3

TABLE OF CONTENTS

I. SAFETY INSTRUCTIONS	1
II. GETTING STARTED	2
CHECK ACCESSORIES.....	2
USE REMOTE CONTROLLER.....	2
III. FEATURES	4
IV. PLAYABLE DISCS	5
V. BEFORE OPERATION	6
VI. PRECAUTIONS FOR DISCS	6
VII. PREPARATIONS BEFORE OPERATION	7
REFERENCE DRAWING FOR BACK SIDE.....	7
REFERENCE DRAWING FOR FRONT PANEL.....	8
REFERENCE DRAWING FOR DISPLAY WINDOW.....	8
REMOTE CONTROLLER BUTTON LAYOUT.....	9
REFERENCE DRAWING FOR CONNECTIONS.....	10
VIII. DVD PLAYER OPERATIONS	14
PLAY DISCS.....	14
PLAYBACK.....	14
DISPLAY.....	14
VOLUME CONTROL.....	17
DVD MENU PLAY.....	17
FAST PLAY.....	18
SLOW PLAY.....	18
DIGEST PLAY.....	18
PLAY MP3.....	19
IX. HDD RECORDER OPERATION	20
RECORD TV PROGRAM.....	20
SCHEDULE RECORD.....	20
RECORD EXTERNAL PROGRAM.....	20
PLAY/EDIT PROGRAM LIST HDD.....	21
TIME SHIFT RECORD.....	21
X. FUNCTION SETTING	22
PVR SETUP.....	22
DVD SETUP.....	23
MAIN SETTING.....	24
XI. TROUBLESHOOTING	26
XII. TECHNICAL SPECIFICATIONS	27

III. FEATURES

1. MULTIPLE FUNCTIONS

Combines the functionalities of DVD player and HDD Recorder.

2. HDD RECORDER

a. TIME-SHIFTING

Time-shifting recording using the HDD (Play and record at the same time);

b. PLAY/RECORD AT SAME TIME

Play external DVD and record on the HDD at the same time;

c. RECORD TV PROGRAM

Programming to record TV input at given time and date;

d. POWERFUL DISPLAY

Display up to 8 programs in a play list per page
Navigate through play list;

Play, Edit, Info, Delete a play-list entry;

Display current recording schedule list, up to 36 programs;

Navigation of current recording schedule list
New/Edit/Delete options;

e. POWERFUL RECORDING

Define start, length, quality, and record mode of recordings;

VCD, SVCD, DVD, SDVD record quality.

Three schedule record mode: once, daily, weekday;

View, edit, play from pre-recorded play list;

f. TIMER

Timer, date and time setup.

g. MULTIPLE INPUT

AV1, AV2, SCART, TV TUNER INPUT.

3. DVD PLAYER

a. OUTSTANDING SOUND QUALITY

Features high quality sound, can play DVD or CD discs at home, reproduce high quality sound effects.

b. HIGH DEFINITION

The unit adopts MPEG2 coding format and brings

the horizontal resolution over 500 lines

c. UNIQUE FUNCTIONS

Multi-angle, multi-language and multi-story features bring you unique trick functions.

Parent lock makes it easy to control the content of discs.

d. SCREEN

Both ordinary screen and wide (16:9) screen are available.

e. COMPATIBILITY

The unit can play DVD discs, and is compatible with Super-VCD, VCD, CD, CD-R, CD-RW and MP3 discs, Kodak picture CD.

f. ZOOM

It can enlarge pictures twice or four times as big.

g. NINE-PICTURE DIGEST

It can look through the content of discs and select to play.

h. TRICK-PLAY

Fast forward, fast reverse, slow play, frame play, repeat play and program play.

i. TIME SEARCH

It can search a specific part on a disc, especially well for watching fiction movies.

j. RESUME PLAY

It can memorize the position where the disc is stopped and resume playback.

k. CONTENT DISPLAY

It adopts coloured fluorescent display and English or other national OSD (On Screen Display), make the disc content clearer.

l. VIDEO OUTPUT





Composite video, S-video signal output mode, and easy system change.

m. AUDIO OUTPUT

Analogue audio output and optical, coaxial digital audio output can be connected with any amplifier to enjoy high-quality sound effects.

IV. PLAYABLE DISCS

Table 2

TYPE	MARK	CONTENT	SIZE	PLAYING
DVD		Audio + Video (Motion pictures)	12cm	About 2hrs(single-side disc)
				About 4hrs(double-side disc)
			8cm	About 80mins(double-side disc)
				About 160mins(double-side disc)
Super-VCD		Audio + Video (Motion pictures)	12cm	About 45mins
VCD		Audio + Video (Motion pictures)	12cm	About 74mins
			8cm	About 20mins
CD		Audio	12cm	About 74mins
			8cm	About 20mins
CD-R		Audio + Video	12cm	
CD-RW		Audio + Video	12cm	
MP3		Audio	12cm	About 600mins
Kodak Picture CD		Video		

Notices: MARK INDICATION

DVD- functions of DVD

SVCD- functions of Super-VCD

VCD- functions of VCD

CD- functions of CD

MP3- functions of MP3

Kodak Picture CD- functions of Picture CD



THIS UNIT IS SET TO PLAY REGION 2 DISCS FOR THE UK AND EUROPEAN MARKETS.

V. BEFORE OPERATION

SECURITY

- Before operation, check if the voltage of the unit is in line with the local voltage.
- Hold the plug to disconnect it from the mains outlet. Do not pull the power cord.
- When the plug of the unit is connected to the mains outlet, the unit will be still connected to AC even if the power is turned off.
- Disconnect the plug as soon as liquid or objects enter the unit. The unit cannot be used until being checked by experts.
- Do not open the cabinet. Laser rays employed by the unit may damage eyes. Any servicing should be done by qualified service personnel.

PLACEMENT

- Put the unit where ventilation is good enough to prevent overheating.
- Never put the unit in direct sunlight or near heat sources.
- Place the unit horizontally, never put any heavy object on the unit.
- To protect the pickup, do not put the unit where there is much dust. If there is dust on the pickup, use a cleaning disc to clean it.
- Refer to the operation instructions of the cleaning disc you bought.

CONDENSATION

Moisture will appear on the pickup lens in the following cases:

- The unit is suddenly moved from a cold place to a warm place.
- The unit is put in a room with a heater, or in cold air from an air - conditioner.
- Use the unit in a humid place. In these cases, the unit cannot work. Unload the disc and leave the unit on for about one hour to evaporate the water.

VI. PRECAUTIONS FOR DISCS

HANDLING DISC

- To keep the disc clean, do not touch the play sides of the disc.
- Do not attach paper or tape to the disc.
- Keep the disc away from direct sunlight or heat sources.
- Store the disc in a disc case after playback.

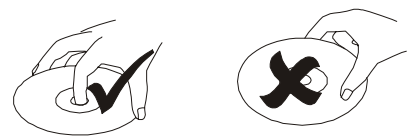


Figure 4

CLEANING DISC

- Before playback, wipe the disc outwards from the centre with clean cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray.



Figure 5

VII. PREPARATIONS BEFORE OPERATION

REFERENCE DRAWING FOR BACK SIDE

Apparatus Claims of U.S. Patent Nos. 4, 631, 603; 4, 577, 216; 4, 819, 098, and 4, 907, 093 licensed for limited viewing uses only.

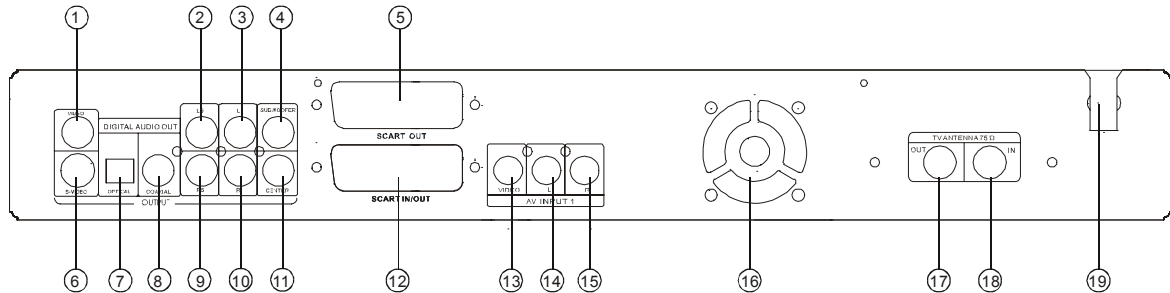


Figure 6

1. VIDEO OUTPUT
2. 5.1-CH SURROUND AUDIO LEFT TRACK OUTPUT JACK
3. 5.1-CH LEFT TRACK AUDIO OUTPUT JACK
4. 5.1CH SUBWOOFER AUDIO OUTPUT JACK
5. SCART OUTPUT
6. S-VIDEO OUTPUT
7. DIGITAL AUDIO OPTICAL OUTPUT
8. DIGITAL AUDIO COAXIAL OUTPUT
9. 5.1-CH SURROUND AUDIO RIGHT TRACK OUTPUT JACK
10. 5.1-CH RIGHT TRACK AUDIO OUTPUT JACK
11. 5.1-CH CENTER AUDIO OUTPUT JACK
12. SCART INPUT/OUTPUT
13. AV1 VIDEO INPUT
14. AV1 AUDIO LEFT INPUT JACK
15. AV1 AUDIO RIGHT INPUT JACK
16. VENTILATUON FOR FAN
17. ANTENNA OUT JACK
18. TV ANTENNA IN JACK
19. POWER SUPPLY WIRE SOCKET

REFERENCE DRAWING FOR FRONT PANEL

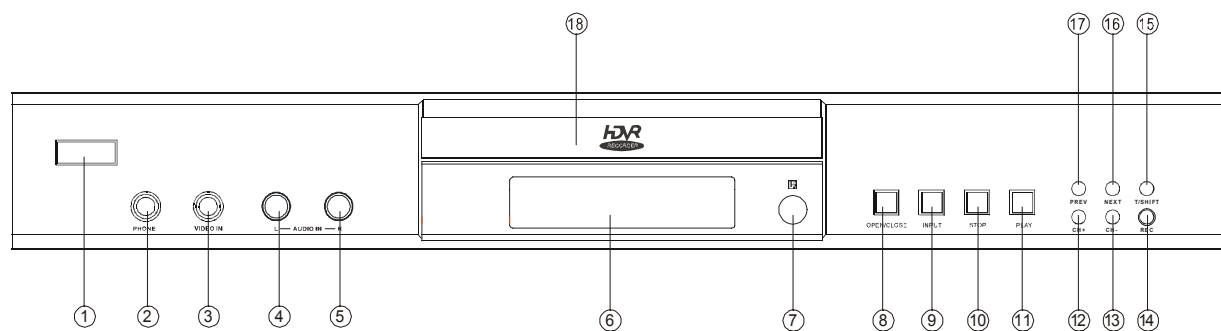


Figure 7

- | | |
|------------------------------------|---------------------------------------|
| 1. POWER BUTTON | 10. STOP BUTTON |
| 2. EARPHONE JACK | 11. PLAY BUTTON |
| 3. AV2 VIDEO INPUT | 12. NEXT TV CHANNEL BUTTON |
| 4. AV2 AUDIO LEFT TRACK INPUT JACK | 13. PREVIOUS TV CHANNEL BUTTON |
| 5. AV2AUDIO RIGHT TRACK INPUT JACK | 14. RECORDER BUTTON |
| 6. DISPLAY WINDOW | 15. TIME/SHIFT BUTTON |
| 7. STANDBY INDICATOR | 16. ONE CHAPTER/TRACK BACKWARD BUTTON |
| 8. OPEN/CLOSE DISC TRAY BUTTON | 17. ONE CHAPTER/TRACK FORWARD BUTTON |
| 9. INPUT SOURCE SWITCH BUTTON | 18. DISC TRAY |

REFERENCE DRAWING FOR DISPLAY WINDOW

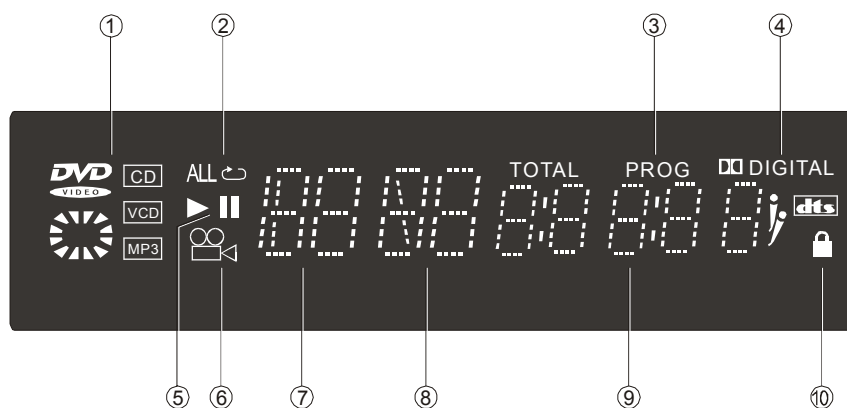


Figure 8

- | | |
|----------------------|---------------------------|
| 1. DISC SYMBOL | 6. ANGLE SYMBOL |
| 2. REPEAT SYMBOL | 7. TITLE NUMBER |
| 3. PROGRAM SYMBOL | 8. CHAPTER SYMBOL |
| 4. DOLBY/DTS SYMBOL | 9. TIME/TRACK INFORMATION |
| 5. PLAY/PAUSE SYMBOL | 10. PARENTAL SYMBOL |

REMOTE CONTROLLER BUTTON LAYOUT

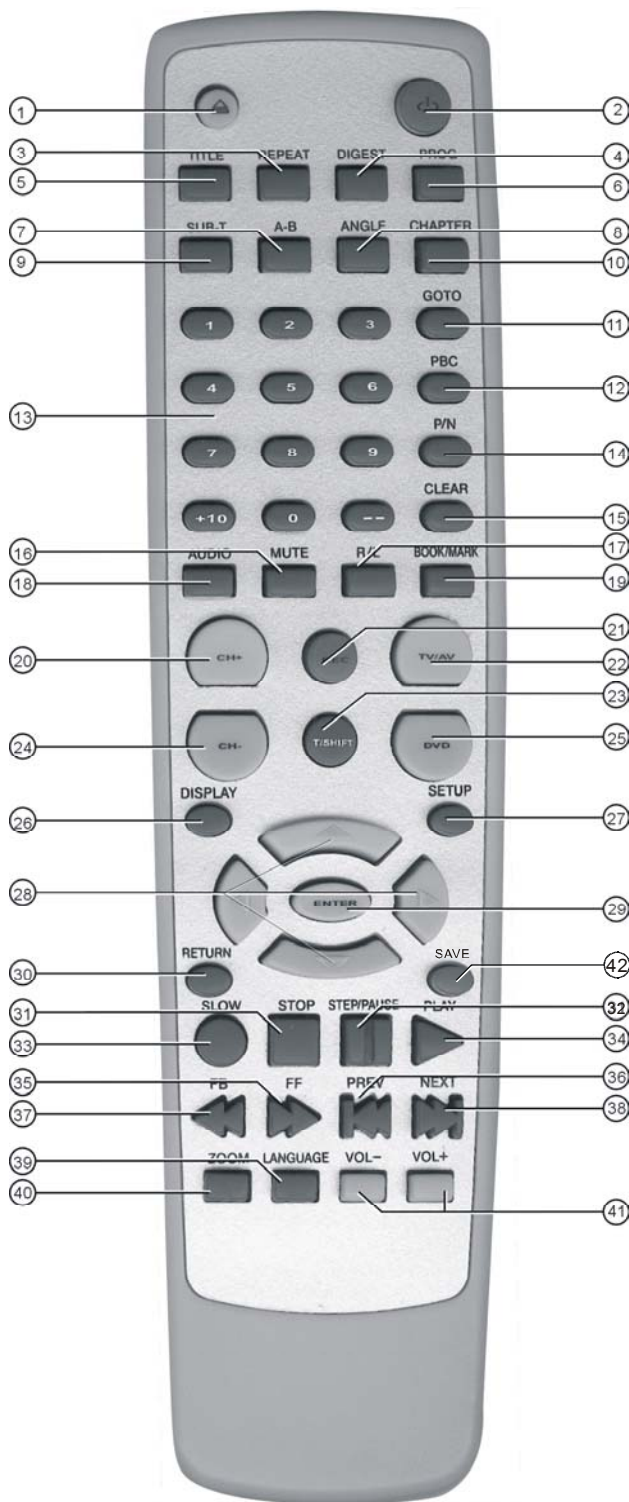


Figure 9

1. OPEN/CLOSE BUTTON
2. POWER BUTTON
3. REPEAT PLAYING BUTTON
4. DIGEST BUTTON
5. TITLE BUTTON
6. PROGRAM PLAYING BUTTON
7. A-B REPEAT BUTTON
8. ANGLE BUTTON
9. SUBTITLE BUTTON
10. CHAPTER BUTTON
11. GOTO BUTTON
12. PBC BUTTON
13. DIGIT BUTTON
14. PAL/NTSC SWITCH BUTTON
15. CLEAR BUTTON
16. MUTE BUTTON
17. REGHT/LEFT SWITCH BUTTON
18. AUDIO BUTTON
19. BOOK/MARK BUTTON
20. NEXT TV CHANNEL BUTTON
21. RECORD BUTTON
22. INPUT SOURCE SWITCH BUTTON
23. TIME/SHIFT BUTTON
24. PREVIOUS TV CHANNEL BUTTON
25. DVD BUTTON
26. DISPLAY BUTTON
27. SETUP BUTTON
28. UP/DOWN/LEFT/RIGHT DIRECTION
29. ENTER BUTTON
30. RETURN BUTTON
31. STOP BUTTON
32. STEP PLAYING / PAUSE BUTTON
33. SLOW BUTTON
34. PLAY BUTTON
35. FF BUTTON
36. PREV BUTTON
37. FR BUTTON
38. NEXT BUTTON
39. LANGUAGE BUTTON
40. ZOOM BUTTON
41. VOLUME "+ / -"
42. SAVE BUTTON

Note: While playing DVD, press **AUDIO**, switch audio language;
 While playing VCD/CD, press **AUDIO** button for sound effect switch.

REFERENCE DRAWING FOR CONNECTIONS

Turn off all equipment before operation.

The unit has many kinds of output modes like VIDEO output, S-VIDEO output and digital signal output (OPTICAL, COAXIAL) and SCART output. You may select, as you need.

This platform can also be integrated into high-end TV products such as Digital TV, HDTV, Back-Panel or Plasma-TV.

CONNECTING TO POWER SUPPLY

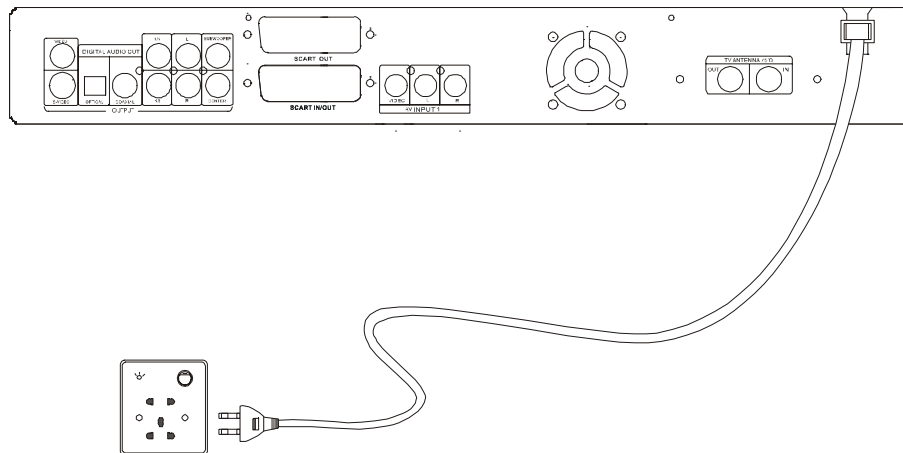


Figure 10

CONNECTING TO TV SET

A. VIA SCART CABLE

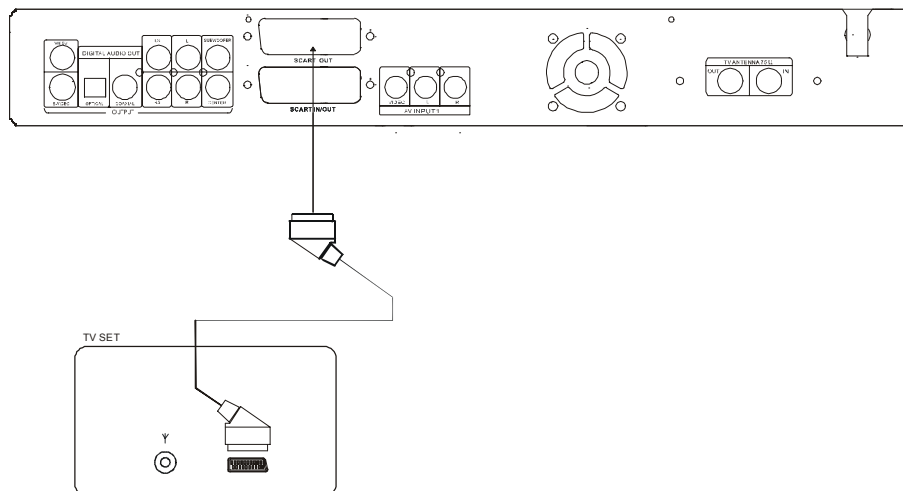


Figure 11

Connect Scart out a backside of the player to the Scart in on TV set.

B. VIA VIDEO CABLE AND DIGITAL CABLE

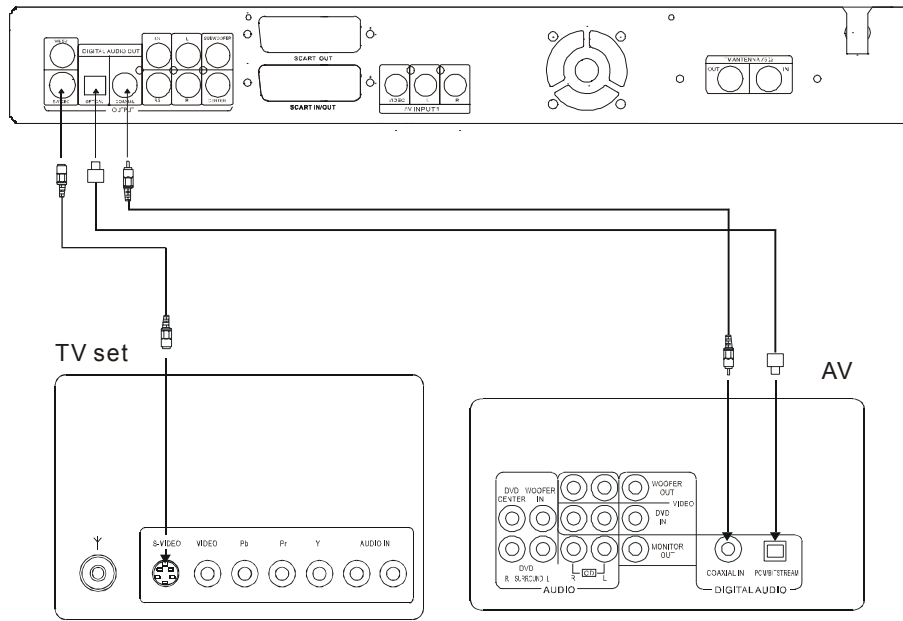


Figure 12

Connect CVBS or S-Video to TV set, connect Coaxial or Optical to Amplifier.

C. VIA AV RCA CABLE

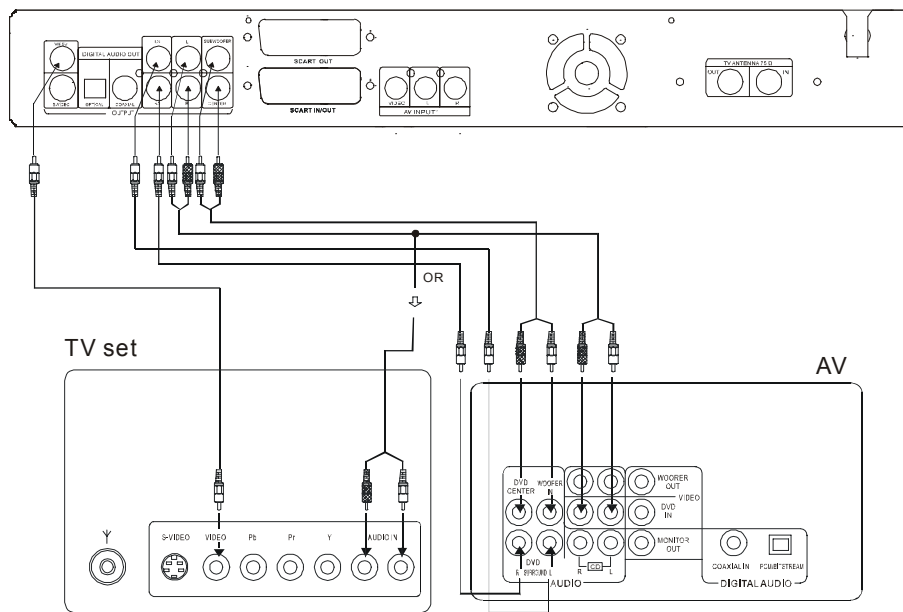


Figure 13

CONNECTING AV INPUT DEVICE

A. VIA SCART CABLE

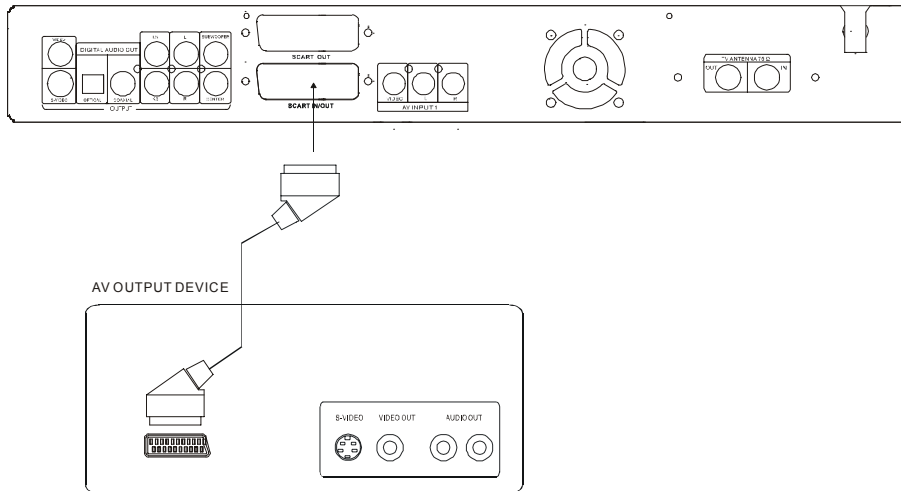


Figure 14

B. VIA AV RCA CABLE (AV1)

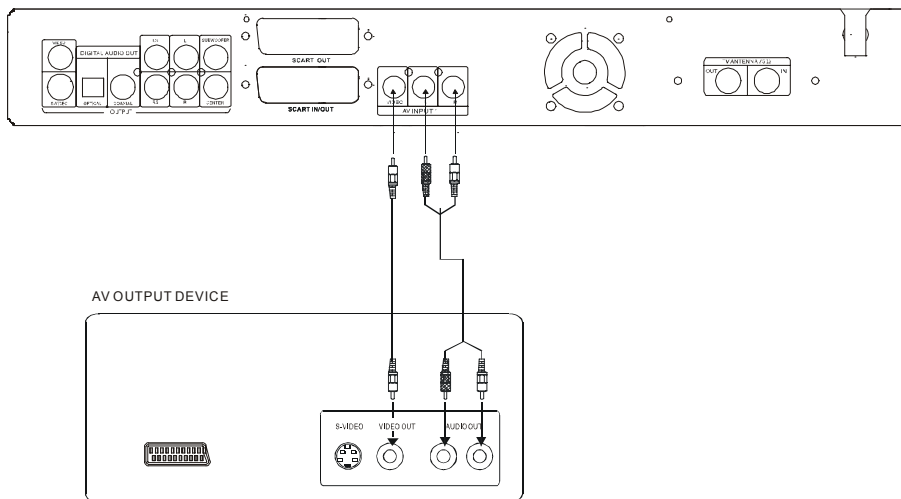


Figure 15

C. VIA AV RCA CABLE (AV2)

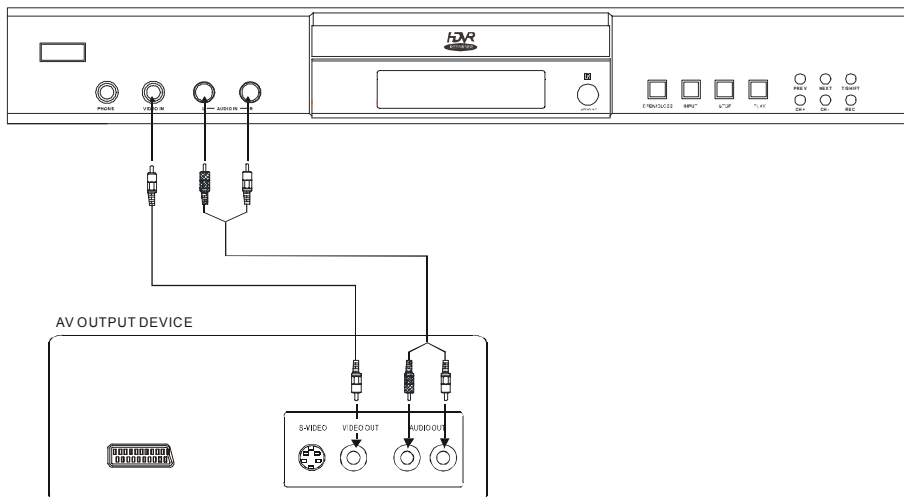


Figure 16

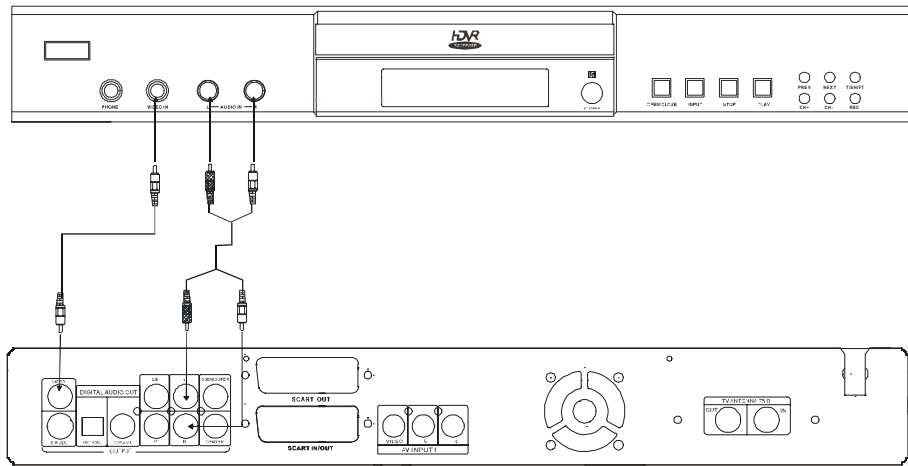


Figure 17

CONNECTING CABLE TV

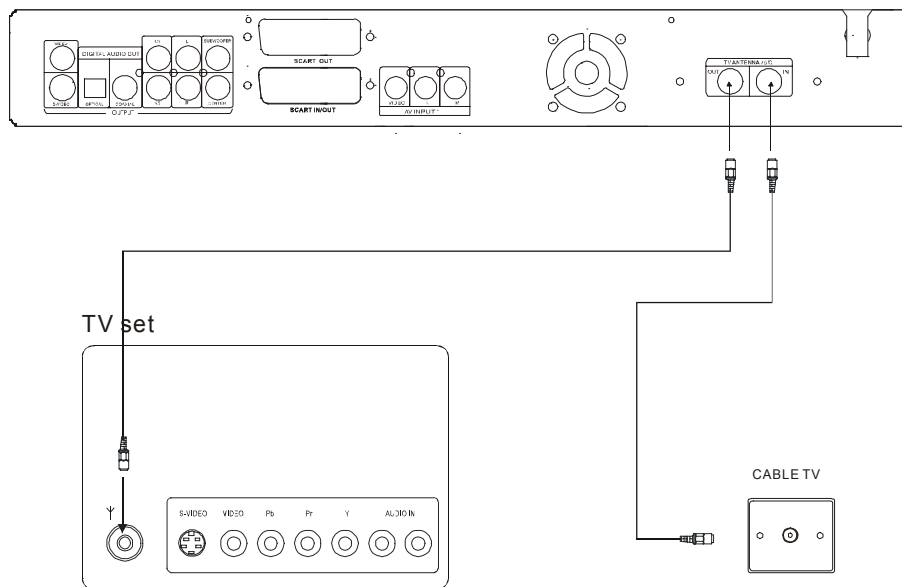


Figure 18

Notes: During HDVR's shut-down, cable TV signal is by-passed to TV set via TV tuner output.

CONNECTING HEADPHONE

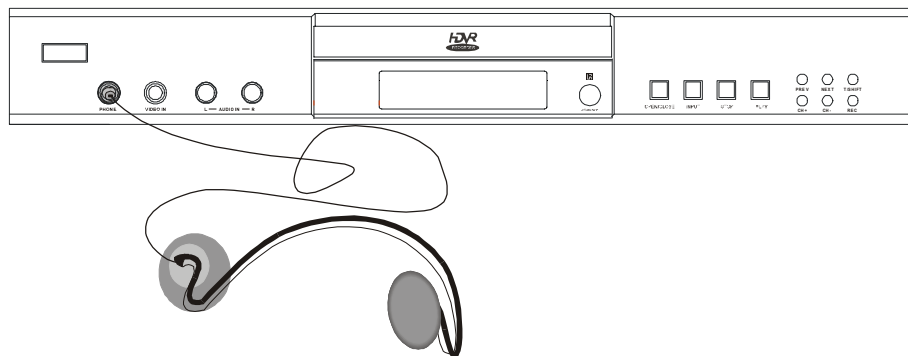
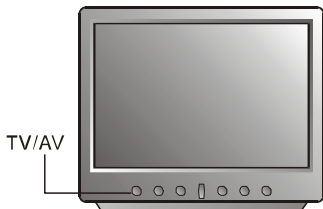


Figure 19

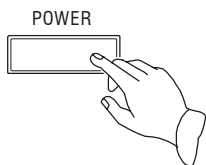
VIII. DVD PLAYER OPERATIONS

PLAY DISCS

1. Connect the player with TV set according the indication in Figure 11, Figure 12 or Figure 13.
2. Press **POWER** on the TV, switch to AV mode (TV).



3. Connect the player to the power supply according to Figure 10. Push the "POWER" Button.



4. Press **▲** to open the disc tray and load a disc with the label side up.
5. Press **▲** again to close the disc tray. The unit begins to read the disc. The TV screen will shows disc program.
6. While playing DVD state, press **TV/AV** and the unit will be switched over to TV MODE.

PLAYBACK

In playing DVD mode:

- ◆ To STOP PLAYBACK, press the **STOP** button.
- ◆ To temporarily STOP PLAYBACK, press the **PAUSE** button.
- ◆ To resume PLAYBACK, press the PLAY button once.

Note:

1. The unit automatically memorizes the location where the stop button was pressed during playback and resumes from that point when the play back button is pressed again.
2. Playback is stopped if you press **STOP** button twice.

DISPLAY

(Only for reference)

This Graphics User Interface provides a set of graphic operating menu for you to control and to be informed of

system status. By using arrow keys and **ENTER**, users are able to select required functions and set required parameters. When the cursor points an icon and press **ENTER**, on the Graphics User Interface, an optional menu is popped out. When a selection is made on the optical menu, the operation is completed and the optional menu disappears.

1. When playing DVD

Push **DISPLAY**, the TV screen will show the information about the disc and player status.

TITLE

T Display current title. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼** or **ENTER** to select required title, and to confirm the selection.

CHAPTER

C Display current chapter. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼** or **CHAPTER** to select required chapter, press **ENTER** to confirm the selection.

TIME

⌚ Display current time. Use **◀ / ▶** to move the cursor to **00:00:00**, input time by pressing digit key, press **ENTER** to confirm the time setting.

AUDIO CHANNEL

🔊 Audio channel selection. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼** to select required audio channel, press **ENTER** to confirm the selection. You can also use **AUDIO** to select required audio channel.

SUBTITLE

A Display current subtitle language. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼** or **SUB-T** or digit Key to select required subtitle language or switch on/off the subtitle. It will switch to selected subtitle in real-time.

ANGLE

👁️ Multi-angle switch. Use this menu to select angles of pictures being played. Use **◀ / ▶** to

move the cursor to the icon, use ▲/▼ or **ANGLE** to select required angle. It will switch to selected angle in real-time.

Example: A DVD has four movie angles.

a. Push **ANGLE** to select ANGLE.

The screen shows:



b. Push **ANGLE** to select other angles, the screen shows respectively:

2/4 (SELECT angle 2)

3/4 (SELECT angle 3)

4/4 (SELECT angle 4)

REPEAT

Repeat play function. Use ◀ / ▶ to move the cursor to the icon, use ▲/▼, **REPEAT** or **ENTER** to select required repeat play function.

a. Repeat a chapter.

Push **REPEAT** or use ▲ / ▼, the screen shows:



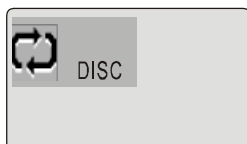
b. Repeat a title

Push **REPEAT** again or use ▲ / ▼, the screen shows:



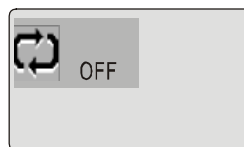
c. Repeat a disc

Push **REPEAT** again or use ▲ / ▼, the screen shows:



d. Remove REPEAT function.

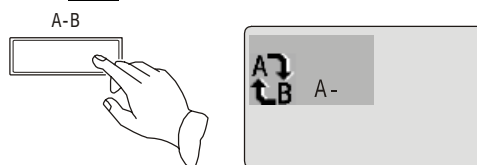
Push **REPEAT** again or use ▲ / ▼, to cancel the repeat function. The screen display:



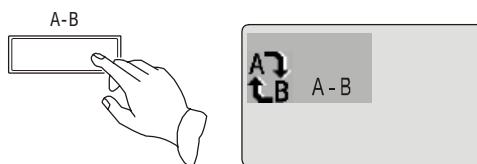
REPEAT A-B

Repeat play from A to B selected. Use ◀ / ▶ to move the cursor to the icon, use ▲/▼, **A-B** or **ENTER** to select required repeat play function.

a. Press **A-B**, set a starting point A. The screen shows:

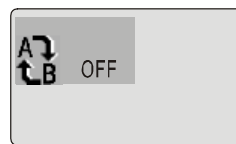


b. Press **A-B** again, set a end point B. The screen shows:



Afterwards, the unit plays from A to B always.

c. Then press **A-B**, remove A-B repeat.



Notes: Only press **A-B** or ▲ / ▼ to remove **A-B** repeat.

BOOK/ MARK

Set a bookmark. Use ◀ / ▶ to move the cursor to the icon, use digit key to select required position, press **ENTER** to confirm the selection.

At maximum five bookmarks (1,2,3,4,5) can be set. This operation is valid only when “BOOKMARK” is displayed on OSD. You may also use ◀ / ▶ to move the cursor to a bookmark and press **PLAY** to jump to the position set and play.

2. When playing VCD, Super-VCD

Push **DISPLAY**. The TV screen shows the information about the disc and player status.

TRACK

Display current track. Use ◀ / ▶ to move the cursor to the icon, use ▲/▼ or digit key to select required track, and press **ENTER** to confirm the selection when the PBC function is “OFF”.

TIME



Display current time. Use ◀ / ▶ to move the cursor to **00:00:00**, input time by pressing digit key, press **ENTER** to confirm the time setting.

AUDIO CHANNEL



Audio channel selection. Use ◀ / ▶ to move the cursor to the icon, use ▲ / ▼ to select required left/right channel, and to confirm the selection. You can also use **R/L** to select required left/right channel.

PLAY MODE



Play mode selection. Use ◀ / ▶ to move the cursor to the icon, use ▲ / ▼ to select required play mode, press **ENTER** to confirm the selection. Three play modes are available: Sequential, Programmed and Random.

PBC



When **PBC** is “ON”, the system will display the menu of VCD, use digit key to select what you like. When **PBC** is “OFF”, system will be in sequential play mode.

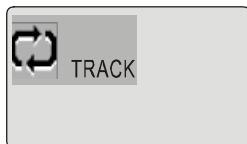
REPEAT



Repeat play function. Use ◀ / ▶ to move the cursor to the icon, use ▲ / ▼, **REPEAT** or **ENTER** to select required repeat play function, and to confirm the selection.

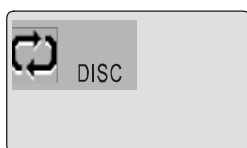
a. Repeat a chapter.

Push **REPEAT** or use ▲ / ▼, the screen shows:



b. Repeat a disc

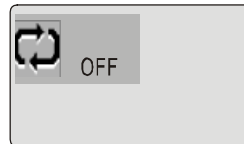
Push **REPEAT** again or use ▲ / ▼, the screen shows:



c. Remove REPEAT function.

Push **REPEAT** again or use ▲ / ▼, to cancel the repeat

function. The screen display:

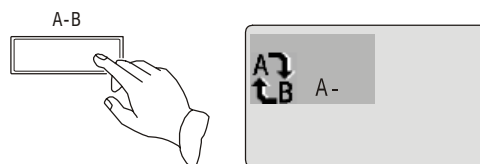


REPEAT A-B

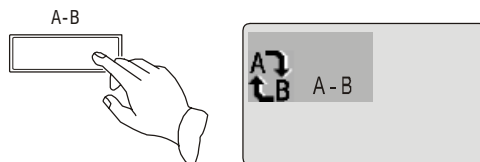


Repeat play from A to B selected. Use ◀ / ▶ to move the cursor to the icon, use ▲ / ▼, **A-B** or **ENTER** to select required repeat play function, and to confirm the selection.

a. Press **A-B**, set a starting point A. The screen shows:

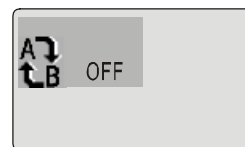


b. Press **A-B** again, set a point B. The screen shows:



Afterwards, the unit plays from A to B.

c. Then press **A-B**, remove A-B repeat.



Notes: Only press **A-B** or ▲ / ▼ to remove **A-B** repeat.

BOOK/ MARK



Set a bookmark. Use ◀ / ▶ to move the cursor to the icon, use digit keys to select required position, press **ENTER** to confirm the selection.

At maximum five bookmarks (1,2,3,4,5) can be set. This operation is valid only when “BOOKMARK” is displayed on OSD. You may also use ◀ / ▶ to move the cursor to a bookmark and press **PLAY** to jump to the position set and play.

3. When playing CD

Push **DISPLAY**, The TV screen shows the information about the disc.

TRACK



Display current track. Use ◀ / ▶ to move the cursor to the icon, use ▲ / ▼ or Digit Keys to

select required track, press **ENTER** to confirm the selection.

TIME



Display current time. Use **◀ / ▶** to move the cursor to **00:00:00**, input time by pressing digit key, press **ENTER** to confirm the time setting.

PLAY MODE



Play mode selection. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼** to select required play modes.

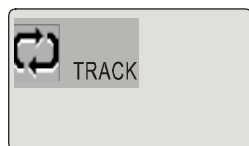
REPEAT



Repeat play function. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼**, **REPEAT** or **ENTER** to select required repeat play function, and to confirm the selection.

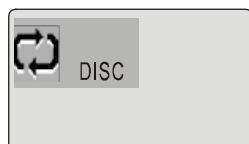
a. Repeat a chapter.

Push **REPEAT** or use **▲ / ▼**, the screen shows:



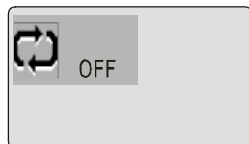
b. Repeat a disc

Push **REPEAT** again or use **▲ / ▼**, the screen shows:



c. Remove REPEAT function.

Push **REPEAT** again or use **▲ / ▼**, to cancel the repeat function. The screen display:

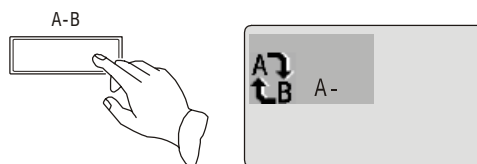


REPEAT A-B

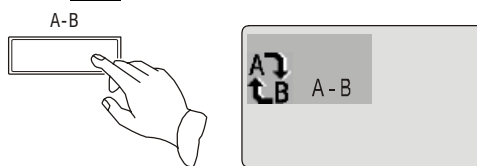


Repeat play from A to B selected. Use **◀ / ▶** to move the cursor to the icon, use **▲ / ▼**, **A-B** or **ENTER** to select required repeat play function, and to confirm the selection.

a. Press **A-B**, set a starting point A. The screen shows:

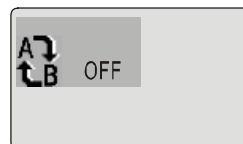


b. Press **A-B** again, set a point B. The screen shows:



Afterwards, the unit plays from A to B.

c. Press **A-B**, remove A-B repeat.



Notes: Only press **A-B** or **▲ / ▼** to remove **A-B** repeat.

BOOK/ MARK

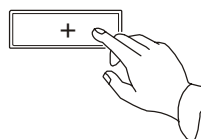


Set a bookmark. Use **◀ / ▶** to move the cursor to the icon, use digit keys to select required position, press **ENTER** to confirm the selection. At maximum five bookmarks (1,2,3,4,5) can be set. This operation is valid only when "BOOKMARK" is displayed on OSD. You may also use **◀ / ▶** to move the cursor to a bookmark and press **PLAY** to jump to the position set and play.

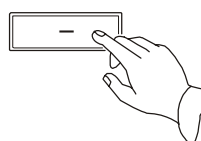
VOLUME CONTROL

Push **VOLUME** on the TV or amplifier to adjust the volume.

Also you can push **VOLUME** key on the remote control to adjust volume. Push "+" to raise the volume.



Push "-" to lower the volume.

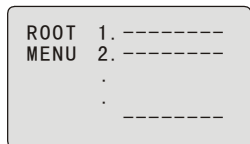


DVD MENU PLAY

Some DVD discs have title menus and chapter menus.

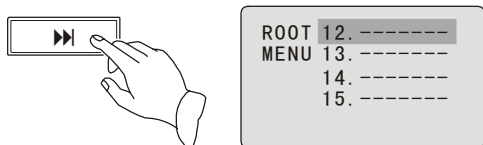
Push **TITLE**, the screen shows the menu. Use the arrow key to move to the desired item, then press **PLAY**, or **ENTER** to choose select, or direct press digit key to choose menu item.

Push **▶▶** to see the next page, select with digit key and arrow key.

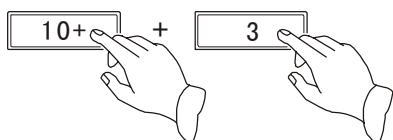


Example: select menu item 13.

1. Push **▶▶** to enter the next menu.



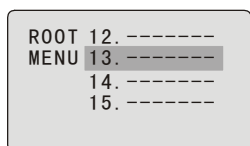
2. Push digit buttons to select directly.



Pressing 10+ one time means adding 10. If select tracks greater 19, please press 10+ twice, and then press 1 to 9 button. It is the similarity for selecting tracks greater 29 or item.

You can also do as follows:

1. Push **▼** to select menu item 13.



2. Push **PLAY** to start playing the selected menu item.

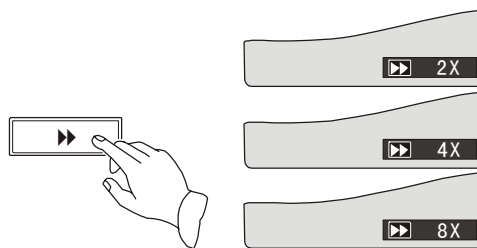
Push **TITLE** once to return to the title menu. Push it again to return to the current playback.

FAST PLAY

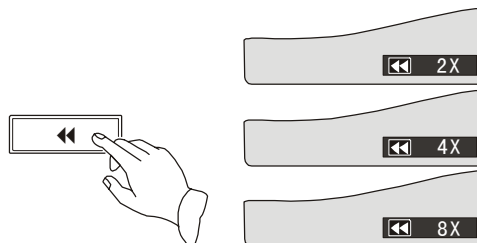
When playing disc, you may play it fast forward or reverse it quickly to find what you need.

PLAYING DVD, Super-VCD or VCD

1. Push **▶▶** to play forward fast. Each time you push the button, the screen shows orderly.



2. Push **◀◀** to reverse the disc fast. Each time you push the button, the screen shows orderly:



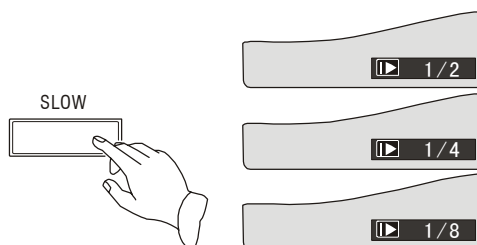
3. Push **PLAY** to play normally when playing fast.

SLOW PLAY

Enjoy slow motions by the following steps.

WHEN PLAYING DVD Super-VCD or VCD

1. Push **SLOW** to play slowly. The screen shows orderly:



2. Push **PLAY** to play normally when playing slow.

DIGEST PLAY

(For VCD, SVCD only)

This function can be used to look through the content of a track or a disc.

Push **DIGEST** after the unit stop and shows 9 picture on the screen.

The unit plays usually each track for ten seconds.

Note: There is different format in each disc, so playing time is different. Time follow discs.

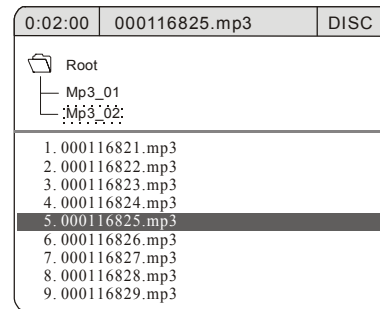
PLAY MP3

MP3 Discs use a navigation system on the DVD player called SMART NAVI.

Please use the following instructions for navigation and file playback.

1. Insert MP3 Disc.
2. After a few seconds the SMART NAVI Control panel will display on your TV screen.
3. SMART NAVI consists of two navigation panels and a information indication area, the top Panel displays folders whilst the bottom panel displays further nested folders and files. Information indication area consists of three indicator: Time, File name, Play mode indicator.
4. Press the RETURN on the remote control handset to return to top panel when the cursor locates in bottom panel.
5. Scroll up and down through files or folders using the UP/DOWN cursors on the remote control
6. Select and expand a folder by pressing the PLAY / ENTER button on the remote control handset whilst it is highlighted.

7. Play a file by highlighting it, then press PLAY or press the corresponding number on the remote key pad to that listed on the bottom panel on the screen.



REPEAT PLAYBACK

- a. Choose track to play.
- b. Press **REPEAT** to choose playback mode “ONE”, “DISC”, “DIR”, “SHUFFLE”.
- c. Cancel repeat mode, press **REPEAT** until the indicator show nothing.

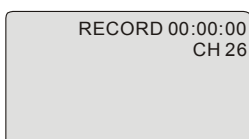
IX. HDD RECORDER OPERATION

You can record TV program and other A/V program by connecting cable TV or other A/V device output to HDD recorder.

RECORD TV PROGRAM

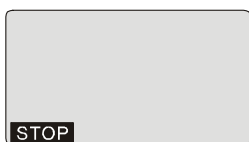
If you want to record a chapter when you are watching TV.

Push **RECORD** to begin record. The screen show:



Push **STOP** If you want to finish this record at once.

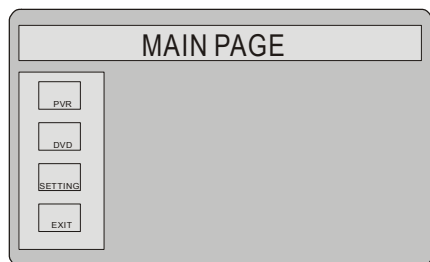
The screen show:



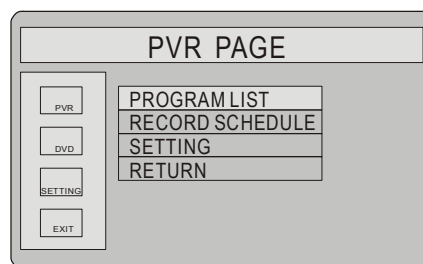
Notice: Push **CH+** / **CH-** or digit button to change the TV channel when playing TV. But in recording status, you can not change TV channel.

SCHEDULE RECORD

Record schedule allow you to make schedule for recording. There are three schedule modes: One time mode, Every day mode, and Every week mode. You can enter setup menu to make recording schedule. Push **SETUP** to enter the main menu. The screen show:



Use \blacktriangle / \blacktriangledown to move the cursor to the icon and select “PVR”, then push **ENTER** to confirm. The screen show:



Use \blacktriangle / \blacktriangledown to move the cursor and select “RECORD SCHEDULE”, then push **ENTER** to confirm. The screen show:

SCHEDULE LIST							
No.	DATE	START	END	INPUT	REC.Q	MODE	
1	01/01	00:00	00:01	67	LP	ONCE	
2	01/01	00:00	00:01	67	LP	ONCE	
3	01/01	00:00	00:01	67	LP	ONCE	
4	01/01	00:00	00:01	67	LP	ONCE	
5	01/01	00:00	00:01	67	LP	ONCE	
6	01/01	00:00	00:01	67	LP	ONCE	
7	01/01	00:00	00:01	67	LP	ONCE	
8	01/01	00:00	00:01	67	LP	ONCE	
9	01/01	00:00	00:01	67	LP	ONCE	
10	01/01	00:00	00:01	67	LP	ONCE	

Select EDIT, press **ENTER** to confirm. The screen show:

EVENT SETTING	
CURRENT TIME: 2003/01/05 10:10:12 MONDAY	
START TIME: 2001/01/01 00:00	
END TIME: 00:01	
INPUT: 067	
PROGRAM NAME: HXX1259	
MODE: ONE TIME/EVERY DAY/EVERY WEEK	
REC-Q: COMMON /GOOD/BETTER/BEST	
OK	CANCEL

Now you can use \blacktriangleleft / \blacktriangleright / \blacktriangle / \blacktriangledown to move the cursor to the icon, use **CH+** / **CH-** or digit key to date, time and channel number change, and use \blacktriangleleft / \blacktriangleright to select MODE and REC-Q .

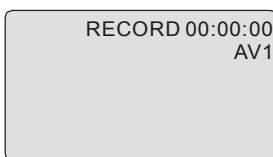
Notice: If you finish schedule, that menu item will be marked with scheduled symbol. When you choose that one again, you can choose “DELETE”, to delete that record Schedule or “EDIT” to change schedule parameters.

RECORD EXTERNAL PROGRAM

If connect external audio/video output device to AV1 AV2, you can make a record of external program.

In the TV/AV status, push **TV/AV** for select “AV1” input mode if the A/V output device is connected to

“AV INPUT 1” (ref Figure 15) . Push **RECORD** to begin record. The screen show:



Push **STOP**, if you want to finish this record. Now, the record is over.

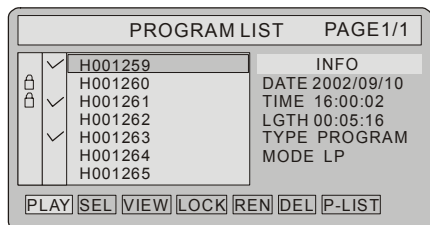
The same way to AV2 and SCART IN recording.

Notes:

1. During recording, you can not change the television channel or navigate CD / MP3 / video discs. But you can press **PROGRAM** key for navigating the program list that has already been recorded.
2. If AV2 input is connected to AV output of this unit, and when DVD loader is playing disc, press **REC**, you can record disc program to hard disc.(ref Figure 17)

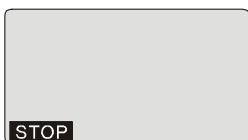
PLAY/EDIT PROGRAM LIST HDD

1. Play record a program you can press **PROG** or **SETUP** for choosing program list, the screen show:

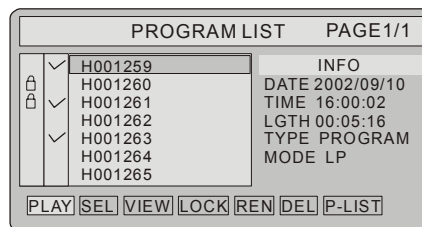


After you choose one program, press **PLAY** again, the unit start to play selected program. After one program is finished, it will automatically return to program list.

During play status, push **STOP** if you want to finish this record. The screen show:



2. Edit recorded program, in the program list status.

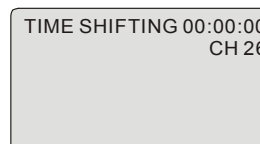


Select program item button function:

- ✧ Select “PLAY” and push **ENTER** to for starting play.
- ✧ Select “SEL” and push **ENTER** to mark this record for adding to play list.
- ✧ Select “VIEW” and push **ENTER** to view the content of the program.
- ✧ Select “LOCK” and push **ENTER** to, lock the record. After locked the program can not be deleted.
- ✧ Select “REN” and push **ENTER** to start renaming the program. After renamed, you must press **SAVE** if you want confirm and exit. Otherwise, just press return to cancel rename. During rename, you can use directional key and **▶**, **◀** key to move cursor.
- ✧ Select “DEL” and push **ENTER** to delete highlight item.
- ✧ Select “P-LIST” and push **ENTER** to start playing “PLAY LIST”.

TIME SHIFT RECORD

When you are busy, but you want to watch a program, in later time, you can press **T/SHIFT** and the screen show:



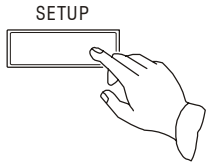
Notes: If you want to use the time shift function, must setup the shift time in setup menu (refer “SETTING”).

In the time shift mode, no recorded file is generated. The program is buffered in the hard disc

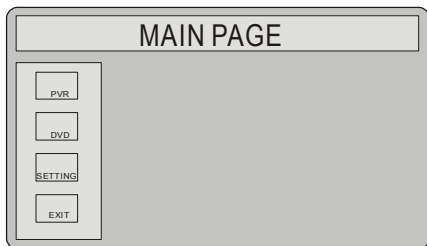
X. FUNCTION SETTING

According to the recorded information and external equipment, set the following functions for HDD video recorder to obtain the best playing status.

Push **SETUP** to enter the main menu.



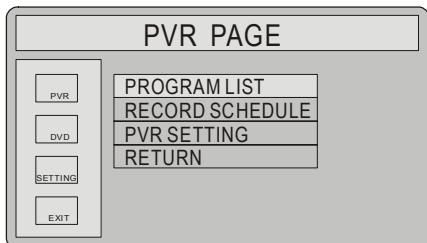
The screen shows:



Push **SETUP** or go to **EXIT** to exit from the main menu.

PVR SETUP

Use **▲/▼** to move the cursor and select “PVR”, The screen show:

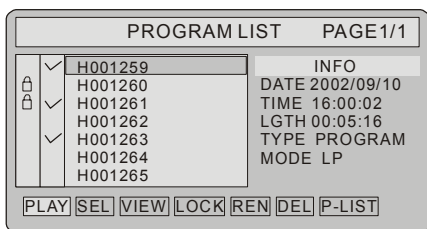


Note:

In playing DVD mode, the PVR menu item is disabled.

PROGRAM LIST

Use **▲/▼** to move the cursor and select “PROGRAM LIST”, then push **ENTER** to confirm. the screen show:



In the program list status, you can play record a program

and edit recorded program. (reference “PLAY/EDIT PROGRAM LIST HDD”)

RECORD SCHEDULE

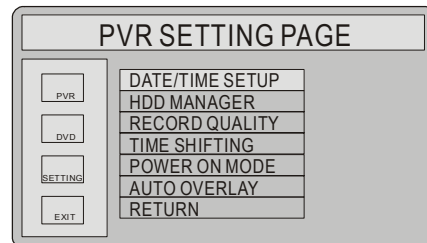
Use **▲/▼** to move the cursor and select “RECORD SCHEDULE”, then push **ENTER** to confirm. the screen show:

No.	DATE	START	END	INPUT	REC.Q	MODE
1	01/01	00:00	00:01	67	LP	ONCE
2	01/01	00:00	00:01	67	LP	ONCE
3	01/01	00:00	00:01	67	LP	ONCE
4	01/01	00:00	00:01	67	LP	ONCE
5	01/01	00:00	00:01	67	LP	ONCE
6	01/01	00:00	00:01	67	LP	ONCE
7	01/01	00:00	00:01	67	LP	ONCE
8	01/01	00:00	00:01	67	LP	ONCE
9	01/01	00:00	00:01	67	LP	ONCE
10	01/01	00:00	00:01	67	LP	ONCE

Record schedule allow you to make schedule for recording. (reference “Record schedule”)

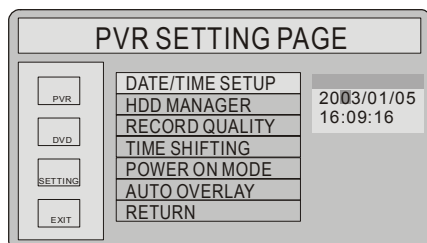
PVR SETTING

Use **▲/▼** to move the cursor and select “PVR SETTING”, then push **ENTER** to confirm. the screen show:



DATE / TIME SETUP

Utilize this function to set for up date and time.

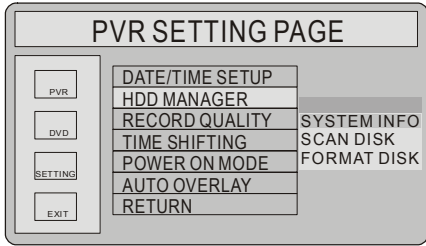


Use **◀/▶** to move the cursor, and use **▲/▼** to make modification, push **ENTER** to confirm the modification.

HARD DISK MANAGER

Use **▲/▼** to move the cursor to the icon and select

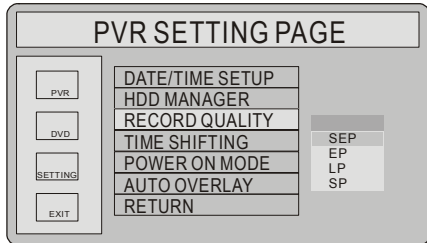
“HARD MANAGER”, the screen show:



- ✧ Select “system info”, the screen show the hard disk information.
- ✧ Select “scan disk”, check the hard disk, and reconstruct the hard disk if there is bad sector detected.
- ✧ Select “format disk”, the function can format the hard disk, all program will be deleted, all space in hard disc will be available for recording.

RECORD QUALITY

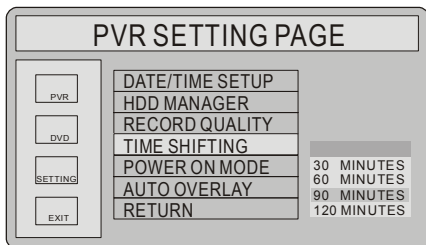
Utilize this item to set up recore quality.



- ✧ Select “SEP”, longest time lowest recording quality.
- ✧ Select “EP”, average time, ordinary recording quality.
- ✧ Select “LP”, recording quality.
- ✧ Select “SP”, shortest time highest recording quality.

TIME SHIFTING SETUP

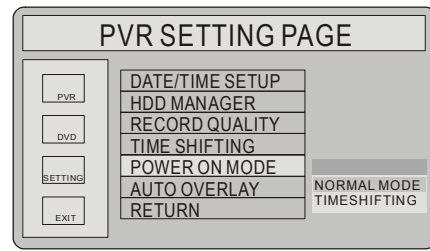
Use ▲/▼ to move the cursor and select “TIME SHIFTING”, the screen show:



If you want to use the time shift function, must setup shift time.

POWER ON MODE

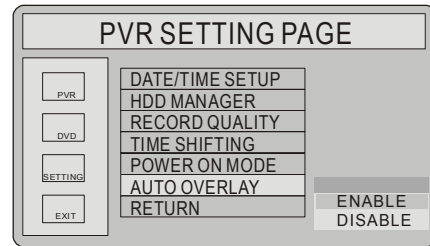
Use ▲/▼ to move the cursor to the icon and select “POWER-ON MODE”, the screen show:



There are two power-on mode: Normal Mode and Time shifting Mode.

AUTO OVERLAY

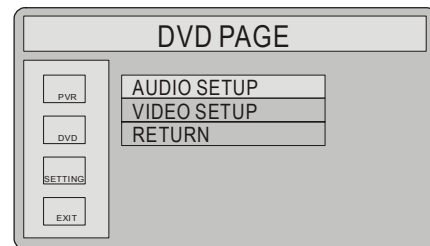
Use ▲/▼ to move the cursor and select “AUTO OVERLAY”, the screen show:



- ✧ Select “ENABLE”, if the hard disk is full of record, the new record program will overlay. the oldest record content automatically.
- ✧ Select “DISABLE”, if the hard disk is full of record, unit will stop recording and show error message.

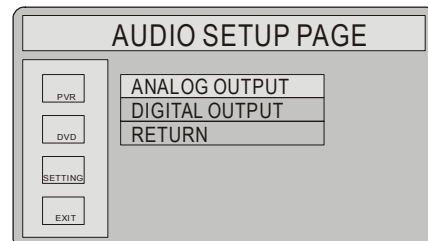
DVD SETUP

Use ▲/▼ to move the cursor and select “DVD”. The screen show:

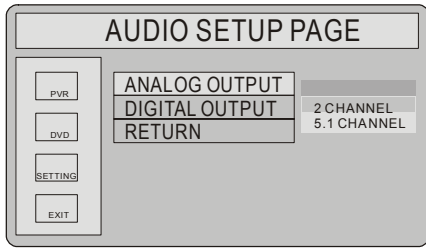


AUDIO SETUP

Use ▲/▼ to move the cursor and select “AUDIO SETUP”, the screen show:



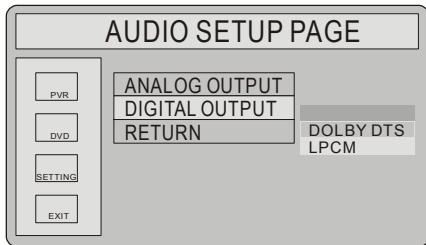
ANALOG OUTPUT



- ✧ 2 CHANNEL: Down Mix to left and the right track as output.
- ✧ 5.1 CHANNEL: Switch to 5.1channel output: left, Right, Rear Left, Rear Right, Center and Subwoofer.

DIGITAL OUTPUT

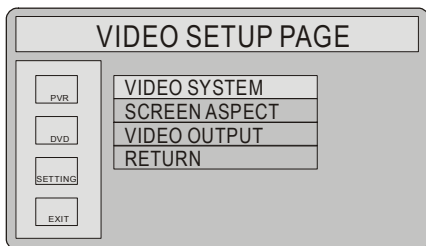
Use ▲/▼ to move the cursor and select “DIGITAL OUTPUT”, the screen show:



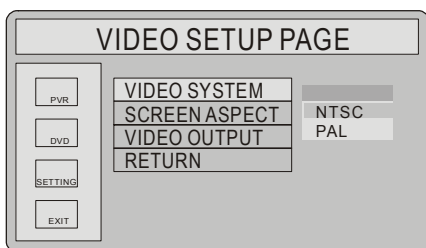
- ✧ DOLBY DTS: Select this when the HDD video recorder is connected to an amplifier Dolby or DTS decoder.
- ✧ LPCM: Select this if you want to have high quality output. But only 2 channel output.

VIDEO SETUP

Use ▲/▼ to move the cursor and select “VIDEO SETUP”, the screen show:



VIDEO SYSTEM

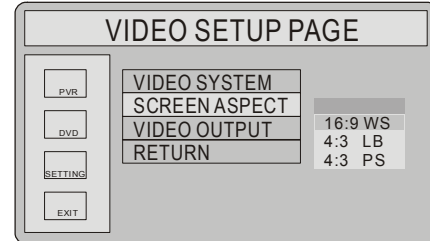


You can select NTSC or PAL according TV system of TV set.

- ✧ Select “NTSC” for a NTSC TV system output.
- ✧ Select “PAL” for a PAL TV system output.

SCREEN ASPECT

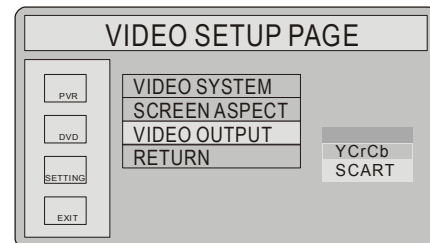
Use ▲/▼ to move the cursor and select “SCREEN ASPECT”, the screen show:



- ✧ Select “16:9 WS”: This is selected when the unit is connected with a wide-screen TV.
- ✧ Select “4:3 LB”: This is selected when the unit is connected with a normal TV. Wide-screen images are shown on screen, with black belts on the top and bottom.
- ✧ Select “4:3 PS”: This is selected when the unit is connected with a normal TV. Wide-screen images are shown on the screen, but with some parts cut automatically.

VIDEO OUTPUT

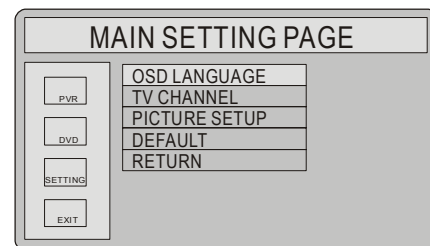
Use ▲/▼ to move the cursor to the icon and select “VIDEO OUTPUT”, the screen show:



- ✧ YCrCb: The OUTPUT is in YCrCb.
- ✧ SCART: The OUTPUT is in SCART.

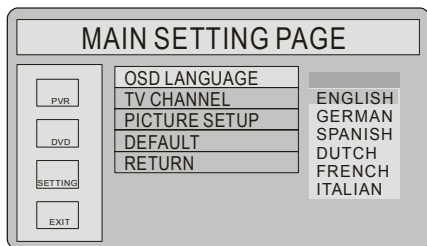
MAIN SETTING

Use ▲/▼ to move the cursor and select “SETTING”.



OSD LANGUAGE SETUP

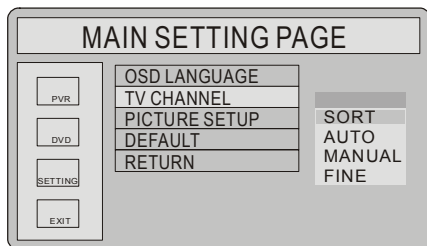
Use ▲/▼ to move the cursor and select “OSD LANGUAGE SETUP”, the screen show:



- ✧ ENGLISH: The OSD is in ENGLISH.
- ✧ GERMAN: The OSD is in GERMAN.
- ✧ SPANISH: The OSD is in SPANISH.
- ✧ DUTCH: The OSD is in DUTCH.
- ✧ FRENCH: The OSD is in FRENCH.
- ✧ ITALIAN: The OSD is in ITALIAN.

TV CHANNEL MANAGER

Use ▲/▼ to move the cursor and select “TV CHANNEL MANAGER”, the screen show:



Use ▲/▼ to move the cursor, select TV channel managing mode: SORT, AUTO, MANUAL and FINE, push **ENTER** to confirm.

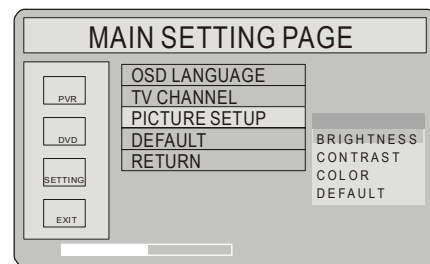
- ✧ SORT: You can sort program by choosing menu item “SORT” when cursor is located on “SKIP”, press “◀ / ▶” switch choice between “OPEN” and “CLOSE”. Press “▲ / ▼” switch choice between “SKIP” and “New Number”. When cursor is located in “New Number”, you can use “◀ / ▶” to input digit from 0 to 9. When choosing “CLOSE” skip, current channel will replace the channel which is numbered by input digit. When choosing “OPEN” skip, current channel will be moved to the new numbered channel, and keep the original channel number to be unchanged.
- ✧ AUTO: Automatically search all and preset TV channels .
- ✧ MANUAL: Manually search TV channel by pressing “◀ / ▶” for operation.

- ✧ FINE: Fine adjust TV channel to approach better match in Video and Audio.

Notes: During automatically searching TV channel, pressing “STOP” and “RETURN” will interrupt search and return to normal status. All found TV channel will be reset.

PICTURE SETUP

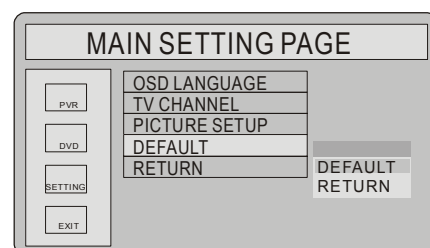
Use ▲/▼ to move the cursor and select “PICTURE SETUP”, the screen show:



- ✧ Select “BRIGHTNESS”: In this menu you can adjust the brightness of the picture. Move the bar by pressing the buttons **CH+** or **CH-** to set the brightness.
- ✧ Select “CONTRAST”: In this menu you can adjust the picture sharpness. Move the highlight bar by pressing the buttons **CH+** or **CH-** to set the sharpness either to high, medium or low.
- ✧ Select “COLOR”: In this menu you can adjust the picture color. Move the highlight bar by pressing the buttons **CH+** or **CH-** to set the balance equilibrium.
- ✧ Select “DEFAULT”: Push **ENTER** to recover to factory setting.

DEFAULT

Use ▲/▼ to move the cursor and select “DEFAULT”, the screen show:



Select “DEFAULT”, push **ENTER** to recover to factory setting.

XI. TROUBLESHOOTING

If you experience the following problems while using the unit, this troubleshooting guide can help you.

No sound

- Check if the unit is connected securely.
- Make sure you operate the TV or amplifier correctly.
- Make sure you have selected HDD video recorder position on the amplifier.

No image

- Check if the unit is connected securely.
- Make sure you operate the TV correctly.
- Make sure you set the colour system correctly.

Bad sound quality

- Make sure the audio output mode is set correctly.
- Make sure the audio connection between the unit and amplifier is right.

Image rolls and no colour

- The colour system set by this unit does not match with that of TV. Push **P/N** on the remote control to select needed one.

Disc cannot be played

- There is no disc in the unit.
- Put the disc on the disc tray properly with the label side up.
- Clean the disc.
- Moisture has condensed in the unit. Remove the disc and leave the unit on for about one hour.

Remote control does not work

- Remove barriers between the remote control and the unit.
- Replace the batteries with new ones.
- Point the remote control at the remote control sensor of the unit.
- Reference page 2.

XII. TECHNICAL SPECIFICATIONS

HDD DIGITAL RECORDER

Table 3

FUNCTION	<ul style="list-style-type: none"> ● Play ● Fast Forward ● Fast Backward ● Switch between video record and DVD play modes ● Switch Video inputs (TV, A/V1, A/V2, SCART) ● PVR Status Display ● Stop ● Schedule recording ● Time shifting ● Timer 			
RECORDING FORMAT	Audio	MPEG-2, Layer II		
	Video	either MPEG-1 or MPEG-2 format, 4 selections: SP, LP, EP, SEP		
OTHER	Date, Clock, Tuner Set-up			
RECORDING TIME LENGTH	Harddisc capability	VCD format	DVD format	Average
	40G	36H	12H	24H
	80G	72H	24H	48H
	120G	108H	36H	72H
	160G	144H	48H	96H

TV RF

Table 4

Receiving System	Systems PAL B/G	
Receiving Channels	BAND	CHANNELS(MHz)
	VHF Low	48.25 – 168.25 MHz
	VHF High	175.25 – 447.25 MHz
	UHF	455.25 – 855.25 MHz
Intermediate Frequency	System B/G	frequency(MHz)
	Picture carried	38.90
	Colour carried	34.47
	Sound carried	33.40
Antenna Input Impedance	VHF/UHF:75 Ohm unbalanced	

DVD PLAYER

Table 5

Television system		NTSC/PAL	
Frequency response		20Hz~ 20KHz	
Signal/noise ratio(Audio)		≥ 106 dB (At 1KHz,JIS A-Weighted)	
Distortion (Audio)		≤ -80 dB (At 1KHz 0dB)	
Channel separation	1KHz	> 85 dB (Mixed output)	
	10KHz	> 85 dB (Mixed output)	
Dynamic range		≥ 80 dB	
Output Audio	Analogue	2.0 ± 0.2 Vrms	
	Digital	0.5 ± 0.1 Vp-p	
	Output impedance	< 1.5 K Ω	
Output Video	Composite	1.0 ± 0.2 Vp-p Load impedance: 75Ω , imbalance, negative polarity	
	Output Impedance	$75 \pm 7.5 \Omega$	
	S-video out	Luma	1.0 ± 0.2 Vp-p
		Chro.	$0.286 \pm 20\%$
Power Voltage		AC100~240V, 50Hz/60Hz	
Power consumption (Max)		60 W	
Dimension(W×H×D)		$430 \times 65 \times 295$ mm	
Weight		5.0kg	

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

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.