

P_{ersonal} V_{ideo} R_{ecorder}

User Manual

Hard Disk Recorder and DVD Player



Please read the manual in detail before using the unit.

WARNING: AVOID THE EXPOSING THE UNIT TO WATER OR MOISTURE TO PREVENT THE POSSIBILITY OF FIRE OR ELECTRICAL SHOCK.

WARNINGS



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



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

DANGER

**DO NOT OPEN
TO PREVENT THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE PVR'S
COVER. NO USER SERVICEABLE PARTS
INSIDE. REFER SERVICING TO QUAL
IFIED SERVICE PERSONNEL.**

**IMPORTANT READ THE SAFETY WARNINGS
ON REAR OF UNIT CAREFULLY**

Caution:

To avoid a possible electrical shock, insert the connection cables correctly.

Important notice:

The serial number for the product it is on the back panel. Please write this number down and keep it in a secure place

SAFETY INSTRUCTIONS

READ INSTRUCTIONS-All safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS-The safety and operating instructions should be retained for future reference.

HEED WARNINGS-All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS-All operating and use instructions should be followed.

CLEANING-Unplug the product from the wall outlet or other power source before cleaning. Use a dry cloth for cleaning.

ATTACHMENTS-Do not use any adapters or attachments not recommended.

WATER AND MOISTURE-Do not use the product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool or other similar areas.

ACCESSORIES-Do not place the product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product.

VENTILATION-Any slots, openings and metal fins provided for ventilation must not be blocked or covered such as by placing the product on a bed, sofa, deep pile rug, or other similar surface. The product should not be placed in a built-in installation such as a bookcase or rack unless sufficient clearance is maintained to provide adequate ventilation.

HEAT-The product should be situated away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

POWER SOURCE-The product should be operated only from the type of power source indicated on the rear panel. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

LIGHTNING-For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

OVERLOADING-Do not overload wall outlets, extension cords, or integral convenience outlets as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY-Never use probes of any kind to reach into the product as they may touch dangerous voltage points or short parts that could result in a fire or electric shock. Never spill liquid of any kind onto the product.

SERVICING-Do not attempt to service the product yourself as opening or removing the cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

SAFETY INSTRUCTIONS

DAMAGE REQUIRING SERVICE

Immediately unplug the product from the wall outlet or other power source and refer servicing to qualified service personnel under the following conditions: a) When the power cord or plug is damaged. b) If liquid has been spilled, or objects have fallen into the product. c) If the product has been exposed to rain or water. d) If the product does not operate normally by following the operating instruction; or exhibits a distinct change in performance. e) If the product has been dropped or damaged in any way.

SAFETY CHECK- Upon completion of any service or repairs, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

DISC PRECAUTIONS:

MOISTURE OR DEW- May occur if the product is suddenly moved from a cold environment to a warm one, and prevent it from reading the disc. If this happens, turn the product on for a least one hour before inserting a disc.

DAMAGED DISCS- Never play cracked, warped, or otherwise damaged discs as they may harm the drive mechanism.

HANDLING DISCS

1 Do not touch the play side of the disc. Always handle the disc by the edges. *Do not attach paper, tape or labels to the disc except for purpose-designed CD labels applied with an applicator intended for the purpose. Out of balance discs damage the mechanism.

*Keep discs away from direct sunlight and excessive heat.

DISC CLEANING

*Before playback, wipe the play surface of the disc outwards from the center with a clean, soft, lint-free cloth.

STATEMENT OF COMPLIANCE

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, this 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, you are encouraged to try to correct the interference by one or more of the following measures: *Reorient or relocate the receiving antenna and the power cord. Increase the separation between the equipment and the receiver. *Connect the equipment to an outlet on a different circuit than the one to which the receiver is connected. *Consult the dealer or an experienced radio & TV technician for help.

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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.

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INTRODUCTION

Thank you for choosing our PVR which could become the entertainment center of your family. This product has two channel AV input, and SVIDEO, SCART input, TV receiver, DOLBY PROLOGIC, DOLBY PROLOGIC 2 function. For the sophisticated operation of this product such as play, record, time recorder, usage of mp3 and jpeg. An optional usb port, use it you can connect PVR to a computer.

DVD part: Introduction

DVD, SVCD, CVD, VCD, CDDA, Mp3, CD-R, CD-RW, KODAK PICTURE, CD DISC compatible. Multilevel picture zoom of high clarity, multi-view angle picture selection, multi-plot selection multi-language subtitle menu optional, parental lock, play, FWD/FFD, skip, slow motion and single-step play, program play and repeat play optional, JPEG picture view with music slide show play. Built-in dolby digital AC3 decoder, optical, coaxial digital audio output, 5.1 channels output.

HDD part introduction

Standard play, FWD/FFD, skip, slow motion and single-step play, timer play, program play, repeat play. play program, modify file name, move, copy, and delete file. Time record, watch record, background record, record format optional, 4x video quality record.

TV part introduction It can receive all channel program with PLL, it has the other funtion of automatic scanning and save channels(max saving 256 channels).

NOTE:

The hard disk must be set as the slave and connected correctly otherwise the unit will need a longer time to initialize and only DVD player will function

ACCESSORIES:

1. Unit.
2. Remote control.
3. Batteries.
4. Cable.



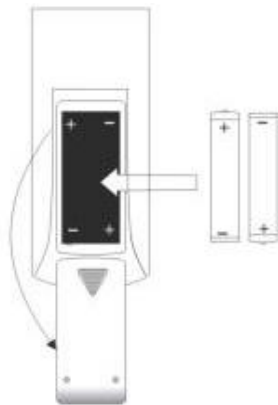
REMOTE CONTROL:

How to put the batteries in the remote control

Removing the cover opens the battery compartment. Insert the batteries –type AAA- into the remote control according to the indicated polarity.

- If the effectiveness of the remote control diminishes considerably, it is probable that the batteries are worn out. Replace the old batteries for some new ones.

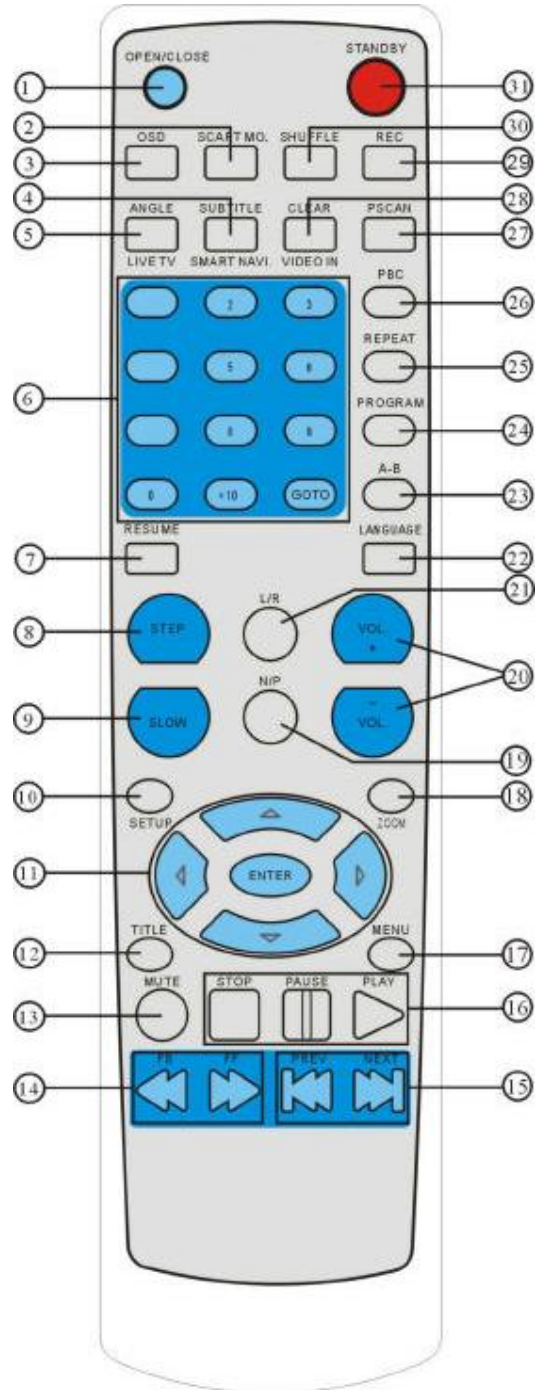
- If you don't use the remote control for a long time, we advise you to remove the batteries.



Remote control:

1. OPEN/CLOSE: this button opens and closes the disk tray.
2. SCARTMO: switches the SCART port between AV/TV.
3. OSD: changes the time display mode.
4. SUBTITLE / SMART NAVI: this button has a double function, it allows selection of the subtitle in the reproduction; gives a disk DVD, gives intelligent navigation.

5. ANGLE/LIVE TV: the same as the previous button also has a double function, on one hand it allows selection of the multiple angles in DVDs that support this function or to go to intelligent navigation from live video.



REMOTE CONTROL:

6. NUMBER KEYS: choose specific chapter, subtitle, track directly(note : not all discs support this function) you can choose the TV channel in the state of tv.

7. RESUME: continue from where it stopped last time.

8. STEP: play one frame by one frame.

9. SLOW: play in slow step.

10. SETUP: enter or exit the system menu.

11. (▲▼): shift the cursor up and down to choose your wanted item in menu.

▶: Shift the cursor to the right .

◀: shift the cursor to the left iwhen using the hdd or dvd.

ENTER: to confirm that what you choosen.

12. TITLE: return to the title menu of the disc.

13. MUTE: keep in mute or return to voice.

14. FB, FF: fast backward or fast forward.

15. PREV, NEXT: choose the previous or next chapter.

16. STOP, PLAY, PAUSE: control the state of playing.

17. MENU: return to the present menu.

18. ZOOM: enlarge the pictures.

19. N/P: switch video output type between PAL, NTSC and MULTI.

20. VOLUME: adjust the volume from mimimum of 00 to maximum of 16; displayed on the OSD.

21. L/R : left and right channel control when play the dvd or vcd disc.

22. LANGUAGE: choose the audio language from many language.

23. A-B: repeat a certain period.

24. PROGRAM: program the order of playing.

25. REPEAT: switch repeat mode

26. PBC: play back control(on or off).

27. PSCAN: choose progressivescan or inlaced output format.

28. VIDEO IN/CLEAR: choose external video input sources [(AV 1,AV2(SCART), S-VIDEO), or erase the wrong characters in edit box.

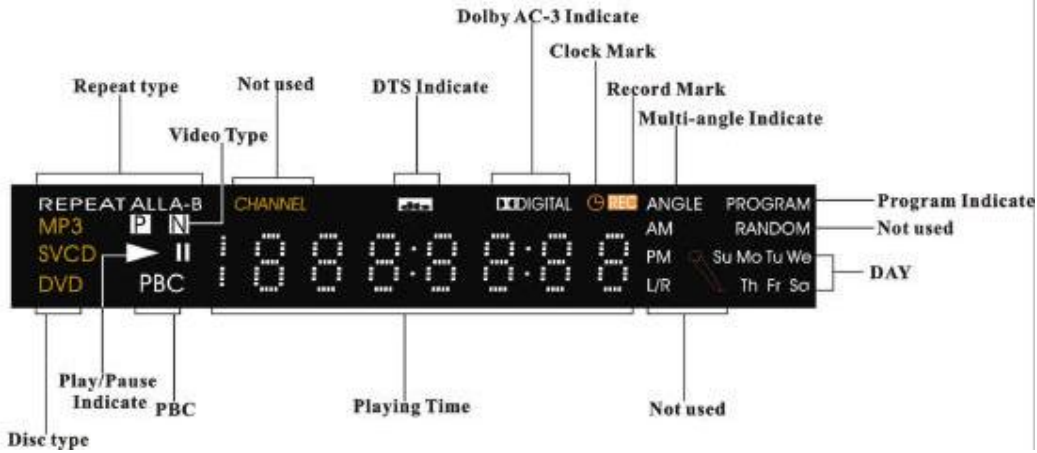
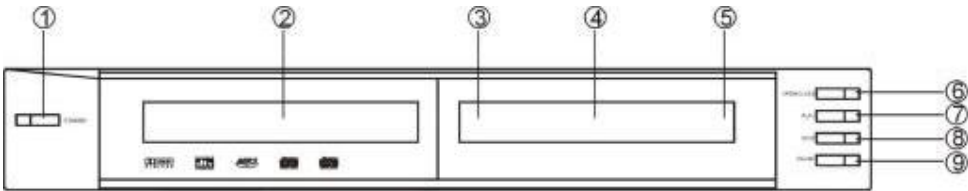
29.REC: record.

30. SHUFFLE: change the order of playing in the state of dvd.

31. STANDBY: switch between stan by and on.

FRONT PANEL AND DISPLAY

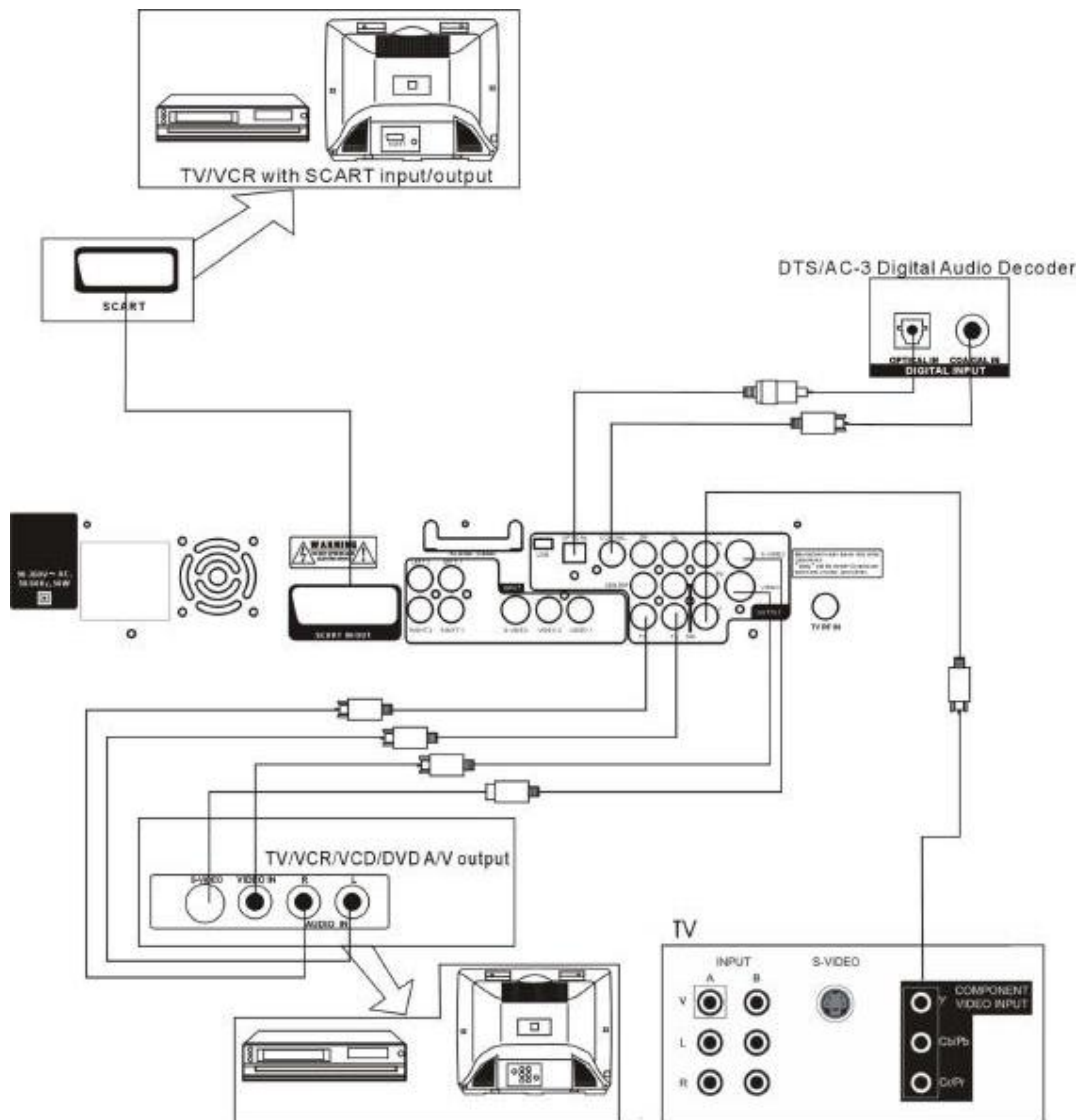
1. Standby.
2. DVD Tray.
3. Receiving sensor for the remote control.
4. VFD DISPLAY.
5. Indicator light.
6. Button to open, to close, to verify selection (OPEN/CLOSE/ENTER).
7. PLAY /▲
8. STOP /▼
9. PAUSE (Setup).



SYSTEM CONNECTIONS

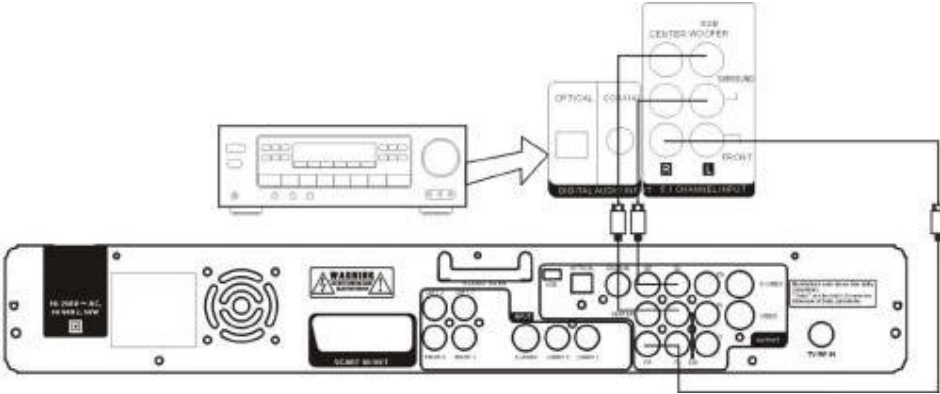
1. Output connections:

- a. Connection: CVBS, Euroconnector (SCART), S-videotape, Y Cb/Pb Cr/Pr.
NOTE: it is not possible to connect the SCART and CVBS simultaneously, because this would affect to the display quality.
- b. Connection stereo: connection for speakers right front and left front.
- c. Digital connection (optics and coax): for connecting to an amplifier or decoder with coax or optic port.

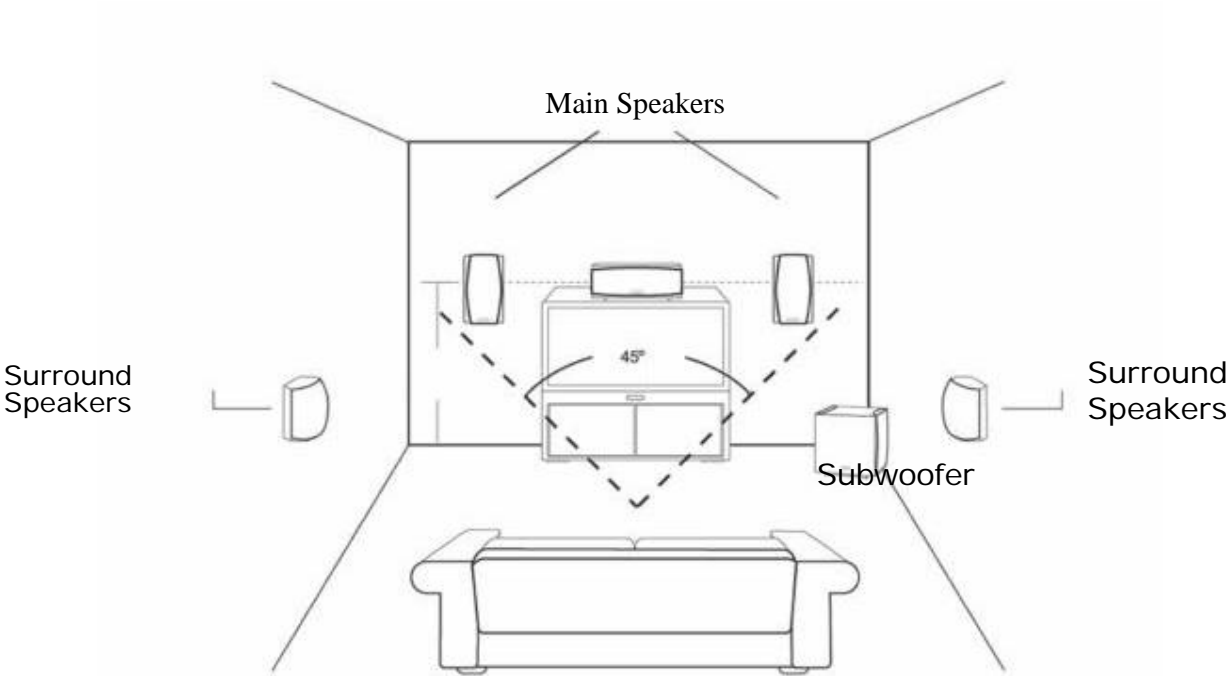


SYSTEM CONNECTIONS

2. CONNECTIONS FOR 5.1.



3. POSITION AND ANGLE OF THE SPEAKERS

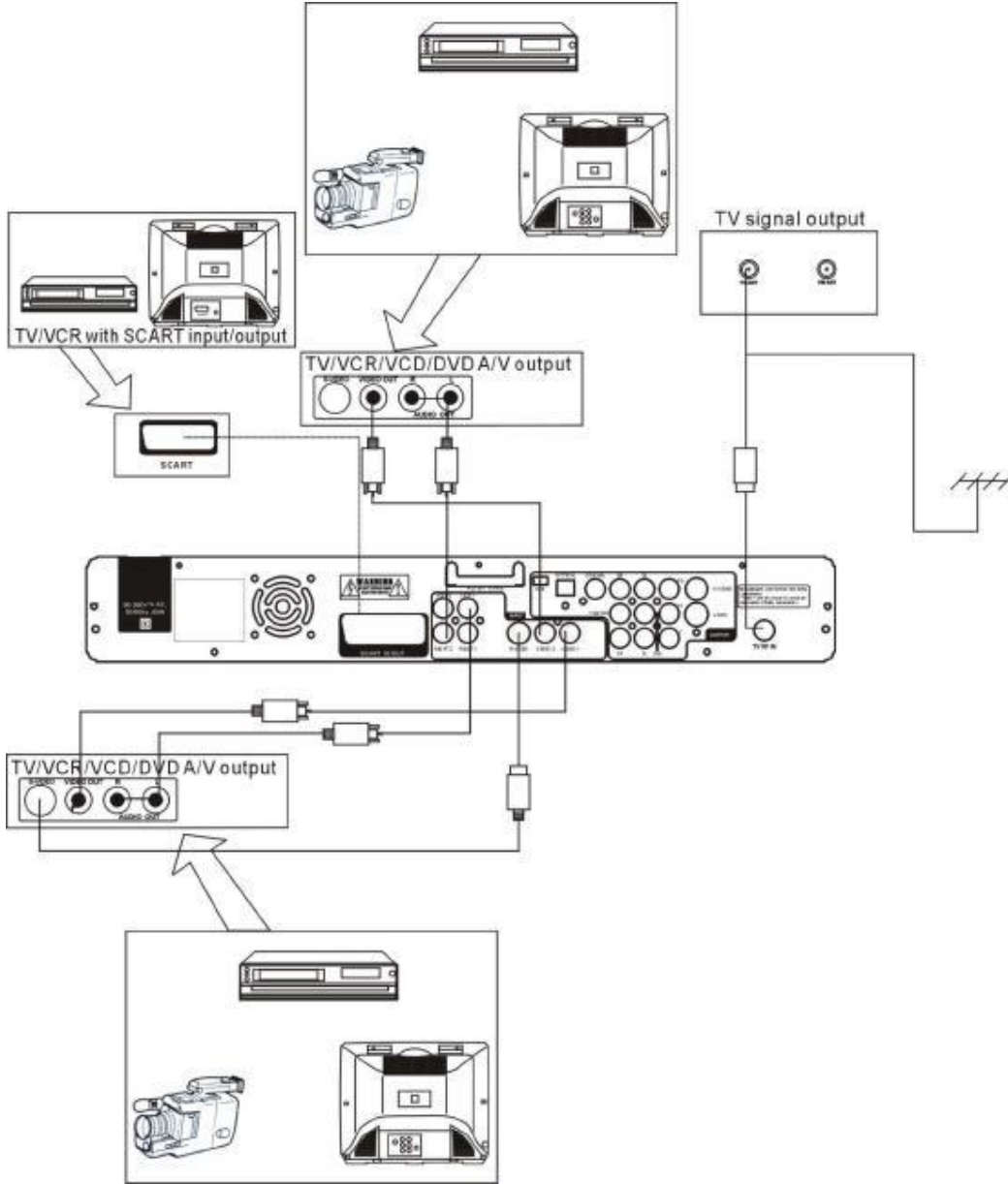


SYSTEM CONNECTIONS

4. INPUT CONNECTIONS:

Inputs: input AV1, input AV2 (SCART), input S-videotape, input RF.

NOTE: if using the S-video input the audio input AV1, AV2 and SCART cannot be connected at the same time.



MAIN MENU AND FRONT PANEL BUTTONS

MAIN MENU

On plugging the unit in, it will go into standby state automatically. Press standby to open self-check and then system menu will appear (if hard disc or CD-ROM are not connected correctly, it will prolong self-check and lead to malfunction).



Using ▲▼ To move cursor, ► or ENTER button to enter submenu, press ENTER to confirm or press ◀ to return to the previous menu



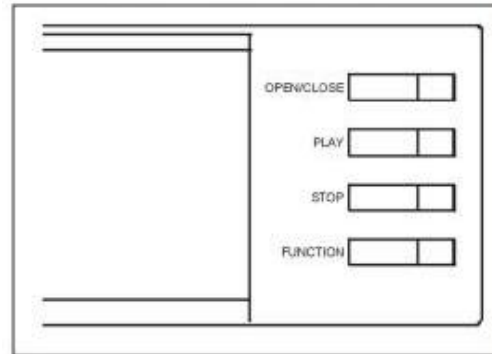
Choose playing DVD to enter DVD play mode, and then you can operate relevant functions.

Choose Smart Navi to enter the hard disc. You can choose playing of recorded program.

Choose Live Video to play the input source, use VIDEO IN button to choose AVI, AV2(SCART), SVIDEO or TV program.

Choose setup menu to enter the system setup menu. You can choose general setup, speaker setup, audio setup, preferences choose disc tools, recording mode, Time shifting mode, maximum pause, input source, source format, reset index, tuner control, clock setup program setup usage of panel button..

USAGE OF PANEL BUTTON



1. WHEN DVD PLAYING

Press **OPEN/CLOSE** to open or close disc tray.

When playing

Press **STOP** to stop playing.

When stopping press **PLAY** to continue to play

2. WITHIN THE SYSTEM MENU

Press **FUNCTION** key to enter or exit the system menu.

Pressing **PLAY** is same as pressing ▲.

Pressing **STOP** is same as pressing ▼.

CURSOR MOVING INSTRUCTIONS

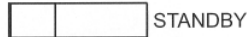


When the arrowhead is grey color, it means that the cursor cannot move in that direction.

DVD INSTRUCTION REMOTE CONTROL OPERATION

STANDBY:

STANDBY

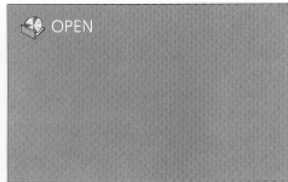


Press this button to turn the machine on or to standby.

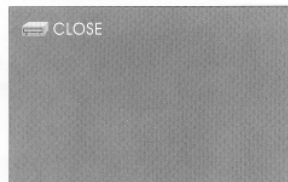
OPEN AND CLOSE :

Press this button to open the disc door and then you can put in or take out the disc. OSD: OPEN

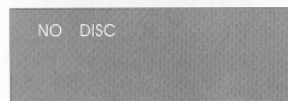
OPEN/CLOSE



After the disc is put in or taken out press this button to close the door. OSD: CLOSE



After the disc is put in OSD is disc loading when the machine is reading the disc. OSD will be NO DISC if no disc is put in.



PAUSE /PLAY /STOP:

PAUSE



PLAY



STOP



PLAY



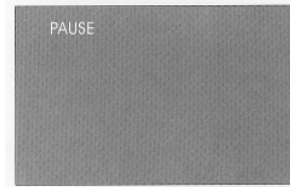
STOP



When the machine is stopped or paused, press **PLAY** button to play. OSD: PLAY



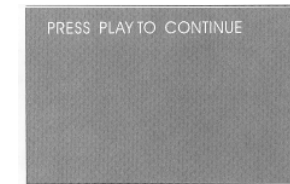
When the machine is playing a disc. Press the PAUSE to pause the playing. Press this button again, the machine resumes playing disc.



Press **STOP** to stop playing disc. OSD is STOP. When svcd, cvd, vcd discs are played, press **STOP** to return to the disc menu(PBC should be on).



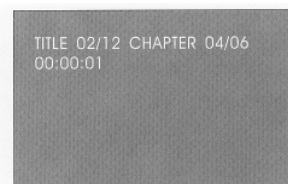
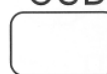
When DVD disc is played, press **STOP** one time to stop playing. Press **PLAY** to resume where it stops. Press **STOP** two times to completely stop.



OSD:

When DVD is playing, press OSD once to show the playing time of the whole disc.

OSD



DVD FROM THE REMOTE CONTROL

When a DVD is playing, press the OSD button twice to show the time remaining on the disk.



When SVCD/VCD/CVD/CD discs are played, press OSD twice to show the rest playing time of the single song.



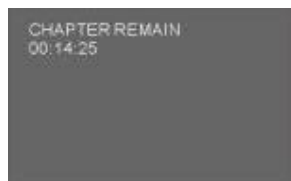
When a DVD is playing, press the button OSD three times to show the playing time of the chapters.



When SVCD/VCD/CVD/CD discs are played, press OSD three times to show the playing time of the whole disc.



When a DVD is playing, press the button OSD four times to show the remaining time of the chapters.



When SVCD/VCD/CVD/CD discs are played, press OSD four times to show the rest playing time of the whole disc.



When a DVD is playing, press the button OSD five times to close the time display.

When SVCD/VCD/CVD/CD discs are played press OSD once to show the playing time of the single song.



When SVCD/VCD/CVD/CD discs are played, press OSD five times to close time display.



DVD FROM THE REMOTE CONTROL

When an Mp3 disc is played, the playing time of a single song is shown automatically.



When an MP3 disc is played, press OSD to show the rest time of the single song.



Press N/P to switch Video Output between PAL, NTSC and MULTI TV type.



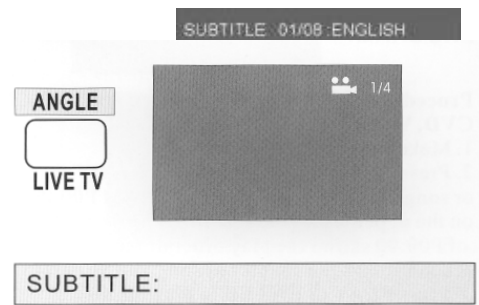
Press LANGUAGE to choose the spoken language if your disc has DTS audio; press this button to switch to DTS out.



ANGLE:

When multi-angle discs are played, the icon for multi-angle shows. Press ANGLE to choose your wanted angle. The first number of icon shows the chosen angle, and the second number shows the total angles available.

Press the button SUBTITLE to select the language



TITLE AND MENU:



Press MENU to return to the DVD chapter menu, if PBC is on. When PBC is off, press MENU to enter directly into the nine pictures.



Press the button TITLE to return to the DVD menu.

DVD FROM THE REMOTE CONTROL

PROGRAM (PROGRAMMING):



Procedures for programming when DVD, SVCD, CVD, VCD discs are played: 1. Make PBC off. 2. Press **PROGRAM** button and enter the chapter or song with number keys. PROGRAM P00:00 shows on the upper left of the screen. (The first number P00:00 shows the play order of the song, and the second shows the chapter or song you've entered) 3. Press **PLAY or ENTER** to play the disc. 4. Press **STOP** to exit programming which makes it return to former programming state, at this time press **PLAY or ENTER** button to resume playing the formerly programmed songs. Press **PROGRAM** button twice to exit programming. Press **PROGRAM** button once to start another programming process.

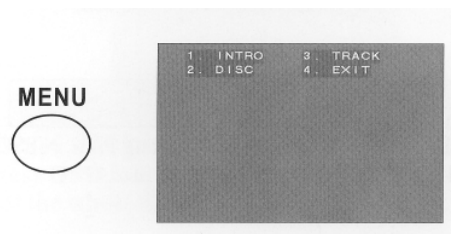
Procedures for programming when CD discs are played: 1. Press **STOP** to stop playing disc. 2. Press **PROGRAM** and enter the chapter or song with number keys. PROGRAM P00:00 shows on the upper left of the screen. (The first number of P00:00 shows the play order of the song, and the second shows the chapter or song you've entered.) 3. Press **PLAY or ENTER** to play the disc. 4. Press **STOP** to exit programming which makes it return to former programming state, at this time press **PLAY or ENTER** to resume playing the formerly programmed songs. Press **PROGRAM** twice to exit programming. Press **PROGRAM** once to start another programming process.

RELEVANT OPERATION: Press **REPEAT** to repeat playing the programmed song or chapter. When the programmed songs get more than the total songs of disc, it cannot be programmed. Mp3 programming refers to page 29.

Press **MENU** to return to the DVD chapter menu, if PBC is off. When PBC is off, press **MENU** to enter directly into the nine pictures. When PBC is off and DVD discs are played, press this button to enter the nine-picture screen. There are several nine-picture screens for you to choose. Use **NUMBER KEYS, PREV, NEXT** to choose songs or enter last or next menu.

Press **MENU** to show the menu of four choices for you to choose when SVCD/CVD/VCD discs are played.

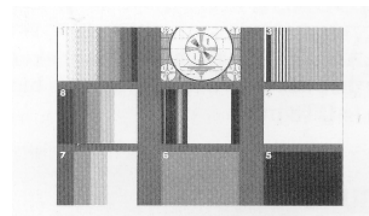
Choice 1: INTRO; Each song will be played for 9s. When your wanted song is played, press number keys to play the song wholly.



Choice 2: DISC; enter the nine picture menu each picture representing one song. Press the number keys or **NEXT, PREV** to play your wanted songs.

Choice 3: TRACK; Enter the nine picture menu. Each song is divided into nine parts.

Choice 4: Exit from menu.



Press **STOP** when last 3 items play over, then press **MENU** to go back to **INTRO** to re-choose songs.

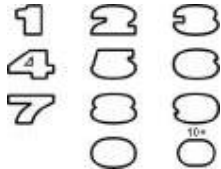
DVD FROM THE REMOTE CONTROL

Press MENU to enter the menu after STOP is pressed if it is a CD disc.



Choice 1: INTRO; Each song will be played for 9s. When your wanted song is played, press number keys to play the song wholly. **Choice 4:** Exit from the menu. Press **STOP**, then press MENU to go back to INTRO to re-choose songs.

SELECTION OF A SONG:

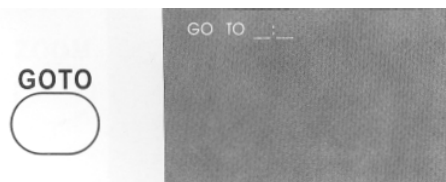


Press NUMBER KEYS to choose your wanted song in SVCD, CVD, VCD and CD discs when PBC is off. (E.G, song No 19, press +10 first, then 9, and player will play the 19th song or picture. Song No28, press+10 twice, then 8.and press +10 over 10 times to choose songs or pictures over 100). Invalid if input number is over the amount of disc' s songs or pictures.

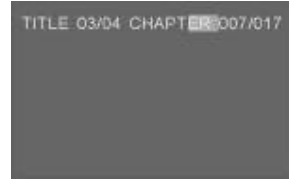


Press NUMBER KEYS to choose a specific playing time of SVCD, CVD and VCD. (Not for all of discs, user can choose time directly, if chosen time is over the whole disc time, operation will be invalid.)

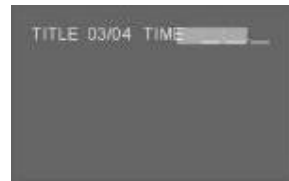
When DVD discs are played, use direction keys ◀▶and number keys to



choose chapter and title after pressing GOTO. The first number of TITLE 03/04 shows the title which is being played. The second one shows the number of the total titles. The first number of CHAPTER 007/017 shows the chapter which is being played. The second one shows the number of the total chapters.



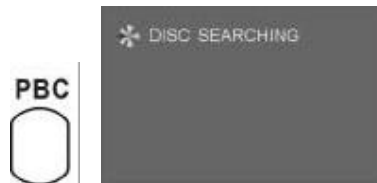
Press the button GOTO twice to choose the playing time. Select the time through the numeric keys.



PBC:

Press the button PBC to disable this function and this way to be able to select the songs in disks SVCD, CVD, VCD 2.0 through the numeric keys.

Press the button PBC to disable this function to see the contents of a disk DVD.



DVD FROM THE REMOTE CONTROL



Press the PBC button again to make sure that the function is activated and press the button MENU to return to the menu.



A-B:

Choose the starting point of A by pressing the button A-B once.



Choose the end point of B by pressing the button TO-B twice.



The part from A to B will repeated.

Cancel the function by pressing the button A-B three times.

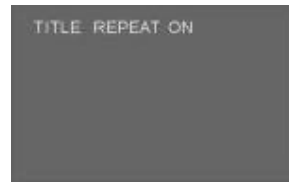


TITLE, CHAPTER, DISC AND REPEAT:

Press the button REPEAT to repeat the chapter in a disk DVD.



Press the REPEAT button twice to repeat the DVD.



Press the button REPEAT three times to cancel the.

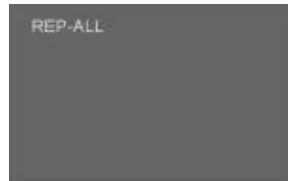


DVD FROM THE REMOTE CONTROL

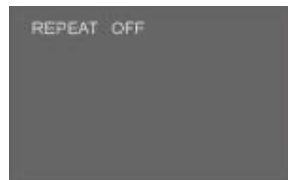
Press the button once REPEAT to repeat the SVCD, CVD, Videotape CD, CD, and MP3.



Press the button REPEAT twice to repeat the SVCD, CVD, VCD, CD and MP3.

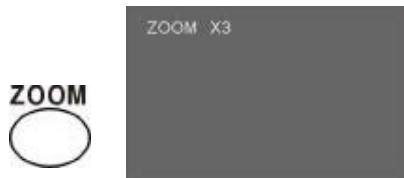


Press the button REPEAT three times to cancel.



ZOOM

Press the button ZOOM to enlarge the image 1.5x, 2x, 3x and normal size. Use the direction keys. ◀▶ ▲▼



VOL- +

Press this button to adjust the volume; minimum 0 to a maximum 16.

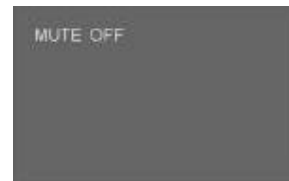


MUTE

Press the button once to mute .

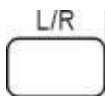


Press the MUTE button again to renew the sound.



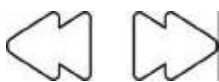
DVD FROM THE REMOTE CONTROL

L/R:



Press L/R button repeatedly and the audio mode will move AUDIO 1, AUDIO2, AUDIO 1 VOCAL, AUD102 VOCAL (for DVD), within LEFTVOCAL, RIGHT VOCAL, MONO LEFT, MONO - RIGHT, STEREO(for VCD). If the disc has two sound language, you can use this button to select one.

FB/FF:



FB/FF

Choose 2X, 4X, 6X and 8 X fast forward or backward speeds by pressing FF or FB when DVD and MP3 discs are played. Choose 1X, 2X, 3X and 4 X fast forward or backward speeds by pressing FF or FB when SVCD, CVD, and CD discs are played.

PREV/NEXT:



Press the button PREV/NEXT in a disk DVD to go respectively to the previous chapter or the following one.

Press the button PREV/NEXT in a disk SVCD, CVD, Videotape CD, CD and MP3 to go respectively to the previous song or the following one.



ANGLE/LIVE TV:



Press the button to choose live video mode when the unit is in navigation mode.

SUBTITLE / SMART NAV



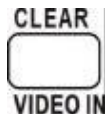
Press this button to return to the navigation mode from the live video mode.

CLEAR/VIDEO IN (to Erase, entrance gives videotape):



Press this button to change the input source in the live video mode.

CLEAR/VIDEO IN



Press this button to erase erroneous input characters.

SCARTMO:



Press this button to the Video/TV to the SCART.

REMOTE CONTROL INSTRUCTIONS

DIRECTIONAL KEYS:

CURSOR CONTROL:

▲ ▼ to move the cursor up or down

▶ to move the cursor right

◀ to move the cursor left

ENTER to enter the selected function



PLAYING FRAME BY FRAME:



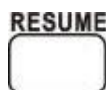
Playing a disk frame by frame.

SLOW MOTION



Slow the playing speed, in the case gives of a DVD by 2x, 4x and 8x and in the case of SVCD, CVD and VCD by 1x, 2x and 3x.

RESUME:



Resumes the playing of SVCD, CVD, VCD and CD from the memory stop mode.

DVD SETUP MENU

- SET MENU MAIN PAGE

In the main page you can select general setup, speaker setup, audio setup, preferences & PVR control



-GENERAL SETUP

DISPLAYING FORMAT SETUP



Set 4:3 pan scan, 4:3 letterbox, 16:9 panoramic.

Note – this moved to preferences

-PICTURE MODE



You will be able to choose among the different formats that can be detected according to the configuration you give each movie: AUTO, FILM (panoramic), VIDEO (videotape), SMART and SUPER SMART.

-ANGLE MARK



The angle marker will be shown automatically on screen (in the top right corner) if the disk has multiple angles of view for certain scenes. Choose OFF if you don't want to see the marker and ON if you want to have it activated.

-OSD LANGUAGE



You may select the language for the menu and OSD.

-CAPTIONS



Captions will not be shown if OFF is selected. This function is only valid if the disk supports it.

DVD SETUP MENU

-SCREEN SAVER



If the unit is without a picture for more than one minute, screensaver will operate to protect the screen. Choose ON to activate this function (default is OFF - disabled).

-SPEAKER SETUP

5.1 CHANNELS & STEREO



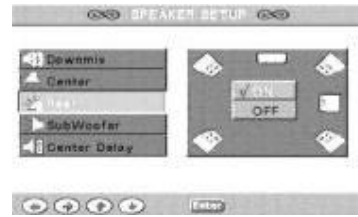
LT/RT: mixes the left & right channels and transfers it then to the left & right channels.
STEREO: output stereo.
OFF: opens the 5.1 channels.

-CENTER SPEAKER



To activate (ON) or to disable (OFF) the central speaker.

REAR SPEAKER



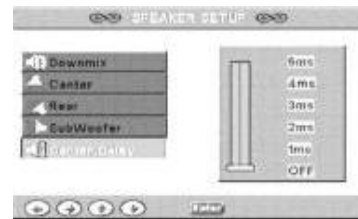
To activate (ON) or to disable (OFF) the rear speaker.

SUBWOOFER



To activate (ON) or to disable (OFF) the subwoofer.

-CENTER DELAY



Configures the time delay of the central speaker.

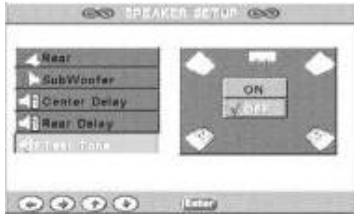
-REAR DELAY



Configures the time delay of the rear speaker.

DVD SETUP MENU

-TEST TONE



Tests if all the speakers are connected correctly.

-AUDIO OUT



You can choose between: Analog, RAW, digital and digital PCM.

-OUTPUT MODE



You can choose between two: linear & radio frequency.

-DUAL MONO



STEREO: standard output.
L-mono: transfers the left channel to the left and right channels.
R-mono transfers the right channel to the left and right channels
Mix-mono: transfers both the left & right channels to the left & right outputs.

-DYNAMIC



This option allows you to adjust the dynamic range.

-PRO LOGIC



Select ON (to activate), OFF (to disable) and AUTO (automatic).

DVD SETUP MENU

PRO LOGIC II MODE



This option allows selection of: Logic, Virtual, Music, Movie and Matrix.

PANORAMA



Activate (ON) or disable (OFF) the way

PRO LOGIC II CONTROL



This option allows selection and control.

CENTRE WIDTH



This option allows selection of central width from 0 at 4.

DIMENSION



Adjust from 3 to +3.

SUBWOOFER FILTER



Activate (ON) or disable (OFF).

DVD SETUP MENU

SURROUND COHERENCE



Activate (ON) or disable (OFF) this option.

LPCM OUTPUT



Choose 48k or 96k.

PREFERENCES TV TYPE SETUP



Select PAL, NTSC or MULTI. (If the TV is PAL, select PAL; if it is only NTSC, select NTSC; if the TV accepts both select MULTI - if it is a PAL DVD, PAL will be output, if the disk is NTSC, NTSC will be output.

Note: this function corresponds with the button N/P on the remote control.

VIDEO OUTPUT MODE



Select the output: S-video or Y, Cb, CR.

AUDIO SETUP



Select the language for the sound channel.

You can also choose the language in the option DIALOGUE LANGUAGE SETUP.

Note: the DVD must support this function.

SUBTITLE SETUP



Select the language for the subtitles. You can also choose the language in the option DIALOGUE LANGUAGE SETUP.

Note: the DVD must support this function.

DVD SETUP MENU

DISC MENU



Choose the language for the menu.
Note: the disk must support this function.

LOCALE



Each country has different standards of paternal control
Select the option for your country.

PARENTAL



There are eight levels of restriction of access.
The password by default is 3308
Note: the disk must support this function.

SMART NAVIGATION



When playing MP3 files, the user can choose songs through the menu using the option WITH MENU is activated; If NO MENU is selected this selection is not possible

DEFAULTS



This option restores the factory defaults.

PASSWORD CHANGE



To change the password, carry out the following steps:

- 1°: Enter the old password.
- 2°: Enter the new password.
- 3°: Enter the new password again.

Reset with the super password (3308) if you forget the new password.

MP3 AND JPEG

Playing of MP3 and JPEG when the NO MENU option is selected.



Press PLAY when the player has read the disc. When playing, user can only press previous, Next or 0-9, +10 numeric button to choose songs. Press Stop, previous appears. Cannot use ▲▼◀▶ to choose songs, and use only 0-9, +10 to play. (e.g. song or picture No 19, press +10 first, then 9, and player will play the 19th song or picture. song and picture No28, press+10 twice, then S. and press +10 over 10 times to choose songs or pictures over NO.100). Invalid if input number over the number of disc's songs or pictures.

MP3 and JPEG when the option WITH MENU is active.

Select the option WITH MENU.
Reproduction with menu:



Select the option you want: files JPEG or files MP3.

1. After carrying out the selection, the folder shows all the files it contains.



2. When the folder that contains the required images or songs, press ▲▼, or 0-9 or +10 to select the images or desired songs. Press PLAY or ENTER to begin the reproduction.



3. Select "0" to move up a folder.

PLAYING MODE:

Press REPEAT to select mode from the seven different modes.

FOLDER: plays songs or images in order.
REP-ONE: plays one song or image repeatedly.
FOLDER REPEAT: plays all the songs or images in the folder repeatedly in order.

MP3 AND JPEG

DISC: play songs or pictures of all folders

DISC REP: repeat playing all songs or pictures of all folders.

DISC SCAN: every song will play 10 for seconds (pictures can not play when in this mode.).

SINGLE PLAYING: stop playing when songs played, and repeat playing when picture played.

Press SHUFFLE key to select random mode: SHUFFLE: songs and pictures will play Randomly and can repeat.

RANDOM: songs and pictures will play Randomly and can not repeat.

PLAYJPEG (DVD)

When playing JPEG or pause:

Press ◀▶ to turn left or right, TURN LEFT/ TURN RIGHT

Press ▲ to play invert or normal picture (INVERT/NORMAL).

press ▼ to Scenes will shuffle between left and right (MIRROR / NORMAL).

PRESS RESUME TO CHOOSE FOLLOWING 13 PLAYING MODES WHEN PLAYING JPEG.

MODE 0: no special Transition effect(default)

MODE 1: wipe from top to bottom

MODE 2: wipe from bottom to top

MODE 3: wipe top / bottom to centre

MODE 4: wipe center to top / bottom

MODE 5: vertical blinds

MODE 6: wipe from left to right

MODE 7: wipe from right to left

MODE 8: wipe left/right to centre

MODE 9: wipe centre to left/right

MODE 10: wipe from edge to centre

MODE 11: horizontal blinds

MODE 12: random

ZOOM

Press ZOOM when playing JPEG and press FF, FB to zoom out or zoom in. OSD will show ZOOM 25, 50,100 and press ZOOM again to exit)

PROGRAM PLAYING

1. Press PROGRAM to go to program playing mode when songs or pictures stop playing.
2. Press 0-9, +10 to choose songs or pictures to be programmed. And P00:00 will show left upside corner (left 00:00 show playing order of programmed songs and right 00:00 shows current programmed songs). 3. Press STOP to stop program and press PLAY or ENTER to begin playing.
4. Press REPEAT when program playing, the whole programmed pictures will played repeatedly.
5. Press STOP to exit programming (Press Program firstly to cancel last programmed songs and choose Program to do next programming). Press Program secondly to exit program mode

NINE PICTURE FUNCTION

Press MENU when playing JPEG, screen will show 9 pictures mode. Press PRE, NEXT to go to last or next picture and press button 1 until 9 to choose current picture. Press MENU to return to the nine-picture mode to re-choose when the formerly chosen pictures are finished.



PLAYING MP3 AND JPEG SIMULTANEOUSLY

When the images and the songs are in the same folder

Operation I: playing begins from the first song and continues until the end of the images.



If the disk has JPEG and MPEG files, press ▲▼ to choose JPEG. Press STEP to open the music background (the OSD will show (MUSIC SLIDE SHOW) and press ENTER or PLAY to begin the reproduction.

If you want to repeat the reproduction, repeat the procedure described previously.



When the images and the songs are in different folders.

1. When the disk is loaded select with ▲▼ MP3.
2. Press STEP to open begin (OSD will display MUSIC SLIDE SHOW MODE)



3. Press the button A-B to select the MP3 file.
4. Use the keys UP, DOWN and ENTER to reach the folder that contains the picture files.
5. Move the cursor to the image from which you want to begin the reproduction.
6. Press ENTER or PLAY to begin the reproduction.



7. Once the playing has finished DONE will appear on the screen.

If you want to carry out the reproduction again, repeat the procedure described above.

PLAYING MP3 AND JPEG SIMULTANEOUSLY

When music & pictures are in the same folders.

When playing pictures and music, if the pictures can not play over the music, press PAUSE once to pause the pictures but the music will continue playing.

Press PAUSE a second time and music & pictures will stop playing

Press PAUSE a third or press PLAY to continue playing songs and pictures.

When music & pictures in the different folders.

When playing pictures and music, if pictures can not play over in the music, you can press PAUSE once to pause pictures but music continue playing.

Press PAUSE a second time and music & pictures will stop playing

Press PAUSE a third time or press PLAY to continue playing songs and pictures

TUNING TV CHANNELS

SCAN CHANNELS

1. Select the option PVR CONTROL inside the Menu for Configuration to carry out the tuning. Remember to configure the correct input format before carrying out this operation.
2. Select the option TUNER CONTROL.



3. The previous option offers two possibilities. Select AUTOSCAN and ENTER to confirm. ENTER again and the TV carries out the Automatic Tuning. While this is carried out a blue line that will be shown moving left to right.



4. VLH, VHF and UHF will be shown. The number of channels will be shown on screen after the tuning.



5. If you want to receive TV programs press ◀ to return to the top menu. Then select LIVE TV) and press the VIDEO IN button) to choose RF and to receive TV

CHOOSE TV CHANNEL

SEARCHING FOR CHANNELS

If the signal or the color is poor, the user can modify the configuration to carry out another search or skip a channel.

Steps:

1. When in TUNER CONTROL, press CHANNEL SETUP to enter.
2. Use the ▲▼ to select the channel and ENTER to confirm (X will be shown on the screen).
3. Press the ► to exit once it has finished.



CHANNEL ADJUSTMENT

If the signal is not good or the color is poor, adjust the tuning using ► and ◀.

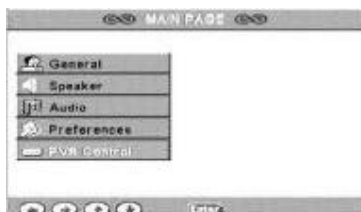
NOTE: If signal is weak, the message "No signal" it will be shown on screen or the image disappears. Press the button SETUP to reach the system menu. Press SETUP again to leave this menu. This will make that the unit retune.

TIME AND DISPLAY SETTING

TIME SETTING:

Steps:

1. Select PVR Control in the SETUP menu.



2. Choose CLOCK SETUP



3. Enter the year, month, day, hour and minute through the numeric keys.

Note: The screen will show an error if the data is not correct.

4. Confirm the information to leave this screen.

Choose the option CANCEL if you want to exit without keeping the changes.

Note: If you don't confirm the changes, the system won't store them.

DISPLAY AND WEEK SETTING

Only when the Menu is selected will the time and day of the week be displayed.



TIMER RECORDING

TO PROGRAM TIME RECORDING

This function sets the recorder to record unattended at some preset time.

Steps

1. Press the button SETUP MENU and select MAIN PAGE, then select PVR Control. And press ENTER.



2. Select PROGRAM SETUP and then CREATE RECORD.



3. Use ▲▼ to select the source: (TV-RF, AV1, AV2 SCART, S - Video), the channel (you doesn't need to select the channel if the recording source gives is not RF), Program Name (one that you choose), the frequency (once only, daily, weekly), the display quality (XP, SP, LP, EP). Through the numeric keys enter the Parental/Locale wanted, the month, day, start time and end time.



4. Press CONFIRM to confirm the settings. If you want to cancel the entered program times etc press CANCEL.

5. The unit can record several programs, but it requires a minimum gives two minutes between the end of one timer recording and the beginning of the next. If less than two minutes are entered then the last entered recording is invalid.

NOTE: If the unit is in standby mode it will enter the operate mode one minute before the recording is due to start and will re-enter standby when the recording is complete.

QUALITY:

- XP: NTSC 720X480/PAL 720X576.
- SP: NTSC 720X480/PAL 720X576.
- LP: NTSC 352X480/PAL 352X576.
- EP: NTSC 352X240/PAL 352X576.

TO CHANGE PRESET RECORDING TIMES:

1. Goto PVR CONTROL, PROGRAM SETUP and EDIT RECORD. Select the one to change using ▲▼. press EDIT. If you wants to delete it press DELETE.



2. If you select the EDIT it will go to the menu for configuration. If you select CANCEL it will return to the menu PVR.

TO EDIT A TIMER RECORDING



3. The unit allows you to see the recording and a DVD at the same time. NOTE: a red display will appear in the bottom left corner giving the state of the recording.

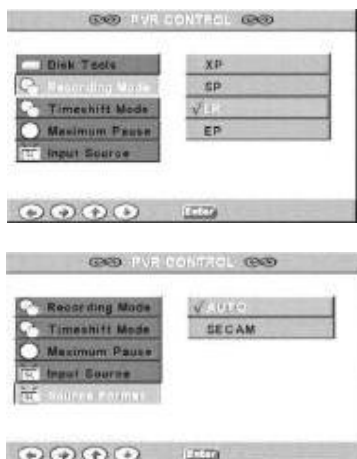


4. After having carried out the changes to the time press, CONFIRM to leave.

TO RECORD A PROGRAM

Before time recording a program

Before recording, go to PVR CONTROL, select the quality (XP, SP, LP, EP), the time shift mode and the format of the source(AUTO, SECAM).



Live recording

1. From the remote control press the VIDEO IN button to be able to select, AV1, AV2, SCART, S-video or TV.
2. Press REC to begin the recording (the recorded files will be shown in numerical sequence).



3. Press STOP to stop the recording and return to the Smart NAVI.



TO PLAY A RECORDED PROGRAM

When playing a DVD, VCD, CD, SVCD, CVCD press REC to play a recorded program. When playing a CD only the format and title will be shown.



ILLUSTRATION:

While playing a recording, if using a monitor through the S - Video or Y,Cb,Cr, connect it to the SCART or the S-video, as the unit won't be able to record signals from itself.

TO RECORD A PROGRAM

Recording in the background

Steps:

1. Select LIVE VIDEO in the main menu and enter CONFIRM. Through the option VIDEO IN select the source.
2. Select SMART NAVI to enter smart navi mode and press REC from the remote control to begin the recording in the background.



3. Whilst the background recording is in operation you can play DVDs or recorded programs.
4. Press STOP to stop the recording.



NOTE: If the light in the bottom left corner is red, it means that it is recording in the background. If the light is yellow, it means that there is a programmed recording.

Direct recording icon:
Background recording icon:



SETTING THE DEFAULTSOURCE

If you want to always keep the same external source (for example, the TV) select the default option in the PVR Control menu, Input Source. This way, whenever the unit is turned on, this source will be selected by default.



MP3 AND JPEG RECORDING

Two different types exist: single and multiple.

Select the required folder with the button PBC first.

A. Recording a single MP3 or JPEG

Select the folder for the MP3 or JPEG inside the SMART NAVI menu.

Note: If no folder is selected the main folder will be used.

1. Select the fMP3 or JPEG using ▲ ▼
2. Press OSD and select COPY and confirm the file that you want to record. During the recording the file size and percentage recorded will be shown.



TO RECORD A PROGRAM



B. Recording several MP3s or JPEGs:

1. Press SELECT in the OSD menu during playback of a DVD and select the item. The unit will automatically select one mode. If you want to select all the files, press SELECT twice. If you want to leave the select mode press SELECT three times.



2. After carrying out the confirmation, press ▲ ▼ to select the song/image. If the display is red it means that the song/image has already been selected. If you don't want to copy the song/image, press ENTER and the cursor will change to grey color.



3. After selecting the songs that you want to record, press STOP to stop selection mode then OSD on the remote control. Use ▲ ▼ to select COPY and the selected files will be copied automatically to the hard disk.

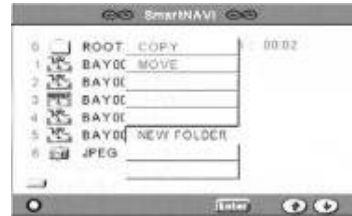


4. If you give the same name to a recording as already exists on the hard disk, a message will ask if you want to replace the existing file. Press YES and ◀ to carry out this substitution.



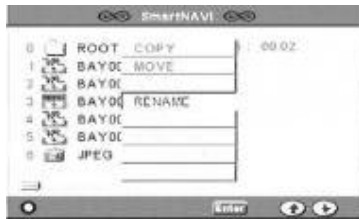
TO RENAME, MOVE/COPY, ERASE A FILE AND TO VIEW ITS PROPERTIES

Through the menu SMART NAVI you can rename, move, copy, erase files or see its properties.



To rename

A. From the SMART NAVI menu select the option RENAME (press the button OSD on the remote control) to change the name of a file. Select the CANCEL to leave.



B. Enter the RENAME menu, using ▼ ▲ to select a letter/symbol and press ENTER to confirm the selection. If a letter/symbol has been incorrectly entered press CLEAR on the remote control and select the correct name. Press the STOP to stop.



B. From this menu select RENAME, and use ◀▶▼▲ to select a letter or symbol and press ENTER to confirm the selection. If an incorrect letter or symbol is entered use CLEAR on the remote control and reselect the name that you want again. Press the STOP to stop.



To copy a file

A. From the SMART NAVI menu press OSD on the remote control and select the name you gave the file; press PBC on the remote control. Confirm that the new file is the desired file.



To create a new folder:

A. From the menu SMART NAVI select the NEW FOLDER option press OSD on the remote control to confirm the new folder. Select the option CANCEL to leave.

B. Use ▲ ▼ to select the file that you want to copy, press the button OSD on the remote control and COPY. Confirm that it is the correct file.

TO RENAME, MOVE, COPY AND ERASE



C. The recording begins. Press STOP to stop the copying.

NOTE: If there are no files to copy, move or delete, the option is not valid.

To move files

Carry out the same steps as to copy files.



To erase files

Use ▼▲ to select the files that you want to erase. Press OSD on the remote control to select DELETE. After confirming the action, a message will appear asking if you really want to erase the file. Choose Yes if you really want to



To display properties

Move the cursor to the file or folders. Press OSD and PROPERTIES. You will be able to see the name, the file size, the playing time, the creation date. Press STOP to leave this option.



TO FORMAT, REPAIR AND DEFRAGMENT THE HARD DISK

To format to the hard disk



1. From the configuration menu choose PVR Control.
2. Select FORMAT DISK from DISK TOOLS. Press ◀ to return or ENTER to format the disk. EXPLANATION: The contents of the disk will be erased after the formatting.

To repair a disk

Press ENTER from the option REPAIR DISK. An indication will appear on screen. Press ◀ to return to another configuration. Press ENTER to repair the disk.

NOTE: If power is lost during a recording you should immediately repair the disk.

To defragment the disk

Press ENTER to choose REPAIR DISK. Press ◀ to return to another configuration. Press ENTER to defragment the disk.

NOTE: If you erase parts of the disk frequently the hard disk will slow down; defragmenting the disk will restore the original speed.

To play a program

1. Choose SMART NAVI from the TOP MENU and use ▲ ▼ to select the program. Press ENTER or PLAY to play the program. Playing time will be shown.



Explanation: Press ▲ to select a folder and CONFIRM to return to the main files.

To readjust the index



This function, will adjust the index automatically putting the files in sequence.

TIMESHIFTING

This function allows you to record programs to the hard disk. It can also play, advance, go back and pause a recording.

Press LIVE TV, to see programs in real time from external sources.

Go to the option PVR CONTROL in the configuration menu to select the display quality that you want for the recording. Four different levels exist: XP, SP, LP and EP.



From the option PVR CONTROL select the maximum duration for the time shift. There are five possibilities: 5, 15, 30, 45 and 60 minutes

USB (if fitted).

1. Connect a USB cable to the unit. The unit will auto restart and show USB INSERT.

2. The computer will detect the device automatically. If Windows 98 is installed on the PC, install the appropriate driver. If Windows 2000 or later is installed no driver is required.

3. Open up My Computer on your PC and you will find the symbol for a new disk, this is the hard disk in your PVR. You will be able to use it as a hard disk in your PC (to copy files, to format the disk, etc...).

4. After using the hard disk, close the software and disconnect the cable. The PVR will light again restart automatically.

NOTE: If the USB does not function correctly, format the PVR's hard disk in your computer then put it back in the PVR.

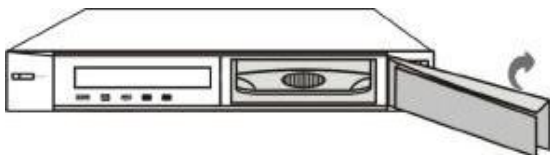
TO CHANGE THE HARD DISK

ATTENTION: Before you change the hard disk, you must switch off and unplug the PVR to avoid any possible damage to the hard disk or the circuit.

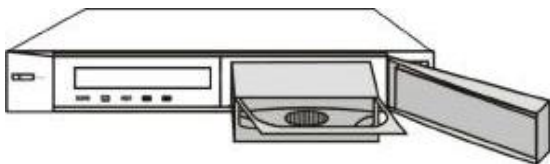
NOTE: You should prepare a new hard disk using FDISK to partition and format it in your PC before installing it in the PVR. The format must be FAT32 and the hard disk set to be in SLAVE mode.

To remove the hard disk:

1. Open the door to the hard disk.



2. Take out the hard disk using the handle.



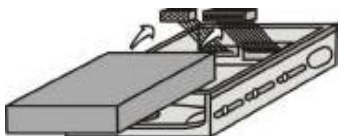
3. Slide the cover off the hard disk caddy.



4. Use a screwdriver to take out the four screws.



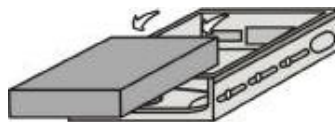
5. Remove the hard disk after disconnecting the power and data cables.



After partitioning formatting the hard disk in a PC insert the new hard disk into the caddy.

Steps:

1. Connect the two cables to the hard disk.



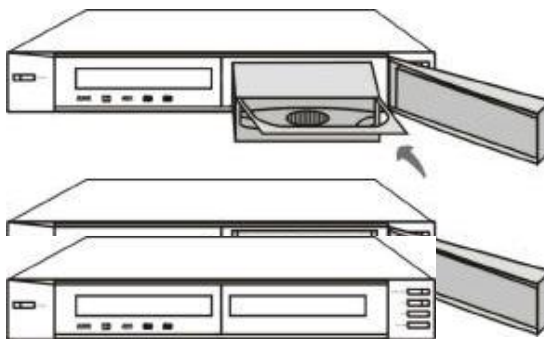
2. Slide the caddy cover back on.



3. Replace the retaining screws.



4. Replace the caddy into the PVR and close the door. Plug the PVR back into the electrical supply and switch on. If there is some problem with the connection re-insert the caddy to re-make the connections.



SPECIFICATIONS

General specifications:

Voltage: AC90V-260 50/60 Hz
Consumption-operate mode - 40 W
Consumption-standby mode: less than 2W
Size: 430x440x60 mm
Weigh: 5 Kg
Temperature: 5-40° C
Humidity: 15-75%

DVD

Supports DVD, SVCD, CVD, VCD
1.0/1.1/2.0, YOU CD-GIVES,
MP3, KODAK PICTURE CD, CD-
R/RW.
Output-video: 1.0Vp-p 75 Ohms.
Output-audio: 1.0-2.0V 10 K ohms.
S/N: >90 DB
Frequency response: 20 Hz–
20Khz +-1dB.
Channel separation: > 80dB
Dynamic range: >80dB

HARD DISK

Capacity with 40 Gb Hard Disk
:
XP: NTSC 720X480 / PAL 720X576:
10 hours 45mins.

SP: NTSC 720X480 / PAL 720X576
14 hours.

LP: NTSC 544X480 / PAL 544X576
21 hours.

EP: NTSC 352X480 / PAL 352X576
40 hours.

Three recording modes: PAL, NTSC,
SECAM.
Input sources S-video, DVD, TV, HD,
etc...)

Recordings

Video outputs: 1.0 + - 0.2V 75 ohms.
Audio outputs: + - 1 dB 10K
Frequency response: 20 Hz–
20Khz +-2dB.
Separation between channels:
> 80dB
Dynamic range: >80dB

S-Video

Video outputs 0.7+- 0.14V p-p 75
Ohms.
C: 0.88 +- 0.176VP-P 75 OHMS.
Colour: 0.15–0.3Vp-p 75 Ohms.
Input: 100% color 1.0Vp-p.

TV

Video output: 1.0 + - 0.2V 75 Ohms.
Audio output: +-1dB 10K Ohms.
Frequency range:
VLH: 49.75-170.00 MHz
VHF: 170.00-450.00 MHz
UHF: 450.00-863.25 MHz

BASIC FAULT FINDING

No sound, No Video:

- Check all the cables give audio are connected correctly.

It is not possible to use an external source:

- Check the input connections.
- Check the external source.

External source errors:

- Check the input cables are correctly connected.
- The source signal is very weak.
- The source format is not correct.

No sound during playback:

- Check that the MUTE function is not activated.

The remote control doesn't work:

- Check the batteries.

Long initiation time:

(more than 20 seconds):

- Check that the hard disk is correctly connected.

The new hard disk you cannot be used:

- The disk must be partitioned and formatted before use.

Corrupt recording:

- Repair or defragment the hard disk.

TV channels cannot be scanned:

- The aerial is not connected correctly.
- The source format is not correct.

Weak TV reception:

- Check that the aerial gives good TV reception.
- Use fine tuning to improve the reception.
- The source format is not correct.

Recordings have no colour:

- The source format is not correct.