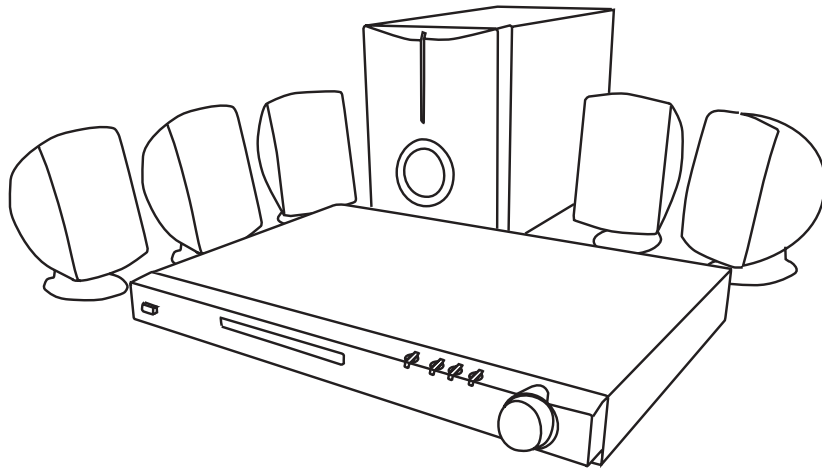


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USER'S GUIDE



PALCO HOME THEATRE



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1. Welcome

Congratulations on your purchase of this Divx home theater! In case warranty service is required, please take a moment to attach your receipt to this manual and write down your Serial Number, located on the back panel of the DVD player.

1.1. Features

- Full compatibility with DVD, CD, VCD/SVCD, MP3 and Kodak Picture CD.
- Dolby® Digital Decoding Compatible.
- Component Video, SCART Video outputs.
- Digital audio output.

1.2. Special Features

- Support MPEG-4 video disc, including DIVX and XVID.
- A built-in RDS tuner(AM/FM)
- A built-in amplifier

1.3. Compatible Discs

This Divx home theater can play discs with the following logos:

- DVD Video (from DVD Disc, and DVD±R/RW)
- MPEG-4 Video (from CD/DVD Disc, DVD±R/RW and CD-R/RW)
- Audio CD (from CD Disc, and CD-R/RW)
- Video CD (from CD Disc, and CD-R/RW)
- MP3 files (from CD/DVD Disc, DVD±R/RW and CD-R/RW)
- Kodak Picture CD (from CD Disc, and CD-R/RW)

1.4. Region code

There is a region code printed on the back of the unit and only will play DVD VIDEO discs labeled identical region codes. This system is used to protect copyrights. DVDS labeled  will also play on this player.

2. IMPORTANT SAFETY INSTRUCTIONS




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



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

- 1) **READ INSTRUCTIONS** - All the safety and operating instructions should be read before the product is operated.
- 2) **RETAIN INSTRUCTIONS** - The safety and operating instructions should be retained for future reference.
- 3) **HEED WARNINGS** - All warnings on the product and in the operating instructions should be adhered to.
- 4) **FOLLOW INSTRUCTIONS** - All operating and use instructions should be followed.
- 5) **CLEANING** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6) **ATTACHMENTS** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7) **WATER AND MOISTURE** - Do not use this 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; and the like.
- 8) **ACCESSORIES** - Do not place this 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. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.



A Product and Cart Combination Should Be Moved with Care - Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
- 9) **VENTILATION** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 10) **Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. This player's power source is: AC100V-250V, 50/60Hz.
- 11) **Grounding or Polarization** - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature: if you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 12) **Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where exit from the product.

- 13) Nonuse Periods - The power cord of the product should be unplugged from the outlet when left unused for long periods of time.
- 14) 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 and disconnect the antenna or cable system. This will present damage to the product due to lightning and power-line surges.
- 15) Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 16) Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18) Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19) Damages Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
- When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - When the product exhibits a distinct change in performance - this indicates a need for service.
- 20) Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 21) Safety Check - Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22) Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

3. PRECAUTIONS FOR UNIT

3.1. 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 of 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.
- #### 3.2. PLACEMENT
- Put the unit where ventilation is good enough to prevent overheating.
 - Never put the unit in direct sunlight or near heat sources.
 - Put 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.

3.3. 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 one hour evaporates the water.

3.4. CLEANING

- Use soft cloth with a little neutral detergent to wipe the cabinet, panel and controls. Never use abrasive paper, polishing powder or solvent like alcohol and gasoline. When the TV screen become dirty, wipe it gently with a piece of soft, lint-free cloth. Do not scratch the surface of the screen.

4. PRECAUTIONS FOR DISCS

- 4.1. 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.

4.2. CLEANING DISC

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

4.3. Using CD-R/CD-RW/DVD-R/DVD-RW

- CD-R / CD-RW / DVD-R / DVD-RW play capability of this unit may vary depend on quality of media, CD burner and application software

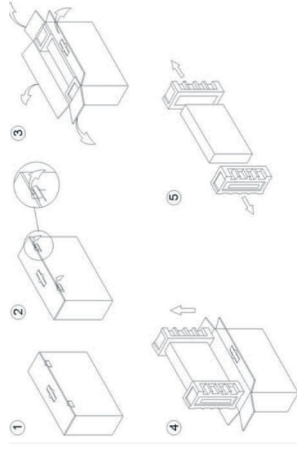
5. BATTERY CAUTIONS

5.1. BATTERY CAUTIONS

- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. alkaline and carbon-zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, it is required to remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries which are not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions)
- Weak batteries can leak and severely damage the unit.
- Always remove batteries as soon as they become weak.
- The batteries of remote control handset may last approximately one year depending on how much the remote control handset is used.
- For the best performance it is recommended the batteries of remote control handset be replaced on a yearly basis, or when remote control operation becomes erratic.

6. Unpacking MP4 Player

Please Follow the instructions below in order to unpack correctly the MPEG4 reader.



Notice:

All OSD and Pictures will base on the English version!

Designs and specifications are subject to change without notice.

- 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
- Manufactured under license from Dolby Laboratories. "Dolby", "Dolby Pro Logic II" and the double-D symbol are trademarks of Dolby Laboratories, Confidential Unpublished works. ©1992 – 1997 Dolby Laboratories, Inc. All rights reserved.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

7. Technical Terms

ENGLISH

7.1. What's MP3?

MP3 (MPEG-1 Audio layer III) is the most popular digital code compression format. It keeps the original quality of CD though the compression rate is up to 1:10 to 1:20. MP3 files are so small, digital, cheap, and they can be easily to transfer so that lead the prevalent trend all around the world.

7.2. What's ID-3 Information?

ID-3 information is response-type information contained in MP3 music files. It includes song, singer and album names. The ID-3 information is displayed when using relevant software.

7.3. What's MPEG-1?

In 1988 the Moving Picture Experts Group (MPEG) was founded under ISO/SC2 with the charter to standardize a video coding algorithm targeted for digital storage media and bit rates at up to about 1.5M bits/s. Its official denotation is now ISO/IEC/JTC1/SC29/WG11. The first Draft international Standard (DIS) released by the committee, ISO 11172 (MPEG-1), was drafted in 1991 and finally issued as IS in 1992. MPEG-1 is intended to be generic (although the initial target applications envisaged and applications parameters defined were constrained to digital storage media). Generic means, that the standard is independent of a particular application and therefore comprises mainly a toolbox. It is up to the user to decide, which tools to select to suit the particular applications envisaged. This implies that only the coding syntax is defined and therefore mainly the decoding scheme is standardized. MPEG-1 defines a hybrid DCT/DPCM coding scheme with motion compensation similar to the H.261 and CCIR Rec. 723 coding standards. Further refinements in prediction and subsequent processing were introduced to provide the functionality required for random access in digital storage media.

7.4. What's MPEG-2?

Studies on MPEG-2 started in 1990 with the initial target to issue a standard for coding of TV-pictures with CCIR Rec. 601 resolution at data rates below 10M bit/s. In 1992 the scope of MPEG-2 was enlarged to suit coding of HDTV - thus making an initially planned MPEG-3 phase superfluous. The DIS for MPEG-2 video was issued in early 1994. The video coding scheme used in MPEG-2 is again generic and similar to the one of MPEG-1, however with further refinements and special consideration of interlaced sources. Furthermore much functionality such as "scalability" was introduced. In order to keep implementation complexity low for products not requiring the full video input formats supported by the standard (e.g. SIF to HDTV resolutions), so called "Profiles", describing functionalities, and "Levels", describing resolutions, were introduced to provide separate MPEG-2 conformance levels.

7.5. What's MPEG-4?

Anticipating the rapid convergence of telecommunications industries, computer and TV/film industries, the MPEG group officially initiated a new MPEG-4 standardization phase in 1994 - with the mandate to standardize algorithms and tools for coding and flexible representation of audio-visual data to meet the challenges of future Multimedia applications and applications requirements. In particular MPEG-4 addresses the need for:

- Universal accessibility and robustness in error prone environments - Multimedia audio-visual data need to be transmitted and accessed in heterogeneous network environments, possibly under severe error conditions (e.g. mobile channels). Although the MPEG-4 standards will be network (physical-layer) independent in nature, the algorithms and tools for coding audio-visual data need to be designed with awareness of network peculiarities.
- High interactive functionality - Future Multimedia applications will call for extended interactive functionalities to assist the user's needs. In particular the flexible, highly interactive access to and manipulation of audio-visual data will be of prime importance. It is envisioned that - in addition to conventional playback of audio and video sequences - the user need to access "content" of audio-visual data to present and manipulate/store the data in a highly flexible way.
- Coding of natural and synthetic data - Next generation graphics processors will enable Multimedia terminals to present both pixel based audio and video data together with synthetic audio/speech and video in a highly flexible way. MPEG-4 will assist the efficient and flexible coding and representation of both natural (pixel based) as well as synthetic data.

ENGLISH

- Compression efficiency - For the storage and transmission of audio-visual data a high coding efficiency, meaning a good quality of the reconstructed data, is required. Improved coding efficiency, in particular at very low bit rates below 64k bits/s, continues to be an important functionality to be supported by the MPEG-4 video standard.

Bit rates targeted for the MPEG-4 video standard are between 5-64k bits/s for mobile or PSTN video applications and up to 2M bits/s for TV/film applications. Seven new (with respect to existing or emerging standards) key video coding functionalities have been defined which support the MPEG-4 focus and which provide the main requirements for the work in the MPEG video group. The requirements cover the main topics related to "Content-Based Interactivity", "Compression" and "Universal Access". The release of the MPEG-4 International Standard is targeted for July 1998.

7.6. What's DivX Pro?

DivX Pro TM helps transform a standard desktop computer into a high-quality video studio, distribution centre, and entertainment jukebox. The technology is so advanced that it can reduce a DVD video to almost 10 percent of its original size, creating great looking files that can be viewed on a PC, television, or DivX Certified device with little or no loss in quality

7.7. What's Xvid?

Xvid is an ISO MPEG-4 compliant video codec. It's no product; it's an open source project which is developed and maintained by lots of people from all over the world.

7.8. Why should I use Xvid?

Well, you don't need to at all. We the developers of Xvid are just ordinary people, who happen to enjoy writing code for video compression, so we have no disadvantages (financial or any other) if you choose something else than Xvid. However there are good reasons why you could like to use Xvid: We believe that Xvid is the best currently available MPEG-4 video codec solution and additionally Xvid is free software!

7.9. What exactly are all those neat features (GMC, Quarter-pel, Adaptive quantization) that the development version of Xvid has?

Explaining the details of this would last too long. As a short answer:

MPEG-4 is very effective in compression, because it reuses data from one image to generate the next one (still images of a video are only 1/25 of a second or even less apart from each other, in almost all cases they look very similar)....

There a different ways how to detect which part of the picture can be reused, and Qpel = "Quarterpel Motion Compensation" and GMC = "Global Motion Compensation" are two advanced ways of doing this. Normally you only use "Halfpel Motion Compensation", so the resolution is higher with Quarterpel. A different step in compression is to divide some coefficients by a number to gives them smaller values (and hopefully zero). This is called "Quantization". Normally, every 16x16 block in the image is divided by the same value, but with "adaptive quantization", for every block a different value can be chose. This _can_ lead to better quality, when e.g. important parts like faces are compressed less, and less important part (background) are compressed stronger, but it's still experimental.

7.10. Is this player supporting DivX CDs which are created under "Quarterpixel"?

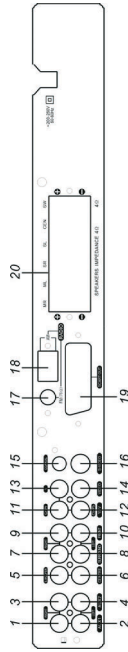
Yes! This player is supporting those CDs.

7.11. Were I can find more info's about DivX ?

<http://www.divx.com/support/divx/guide.php>

8. Preparations before using

8.1. REAR PANEL INFORMATION

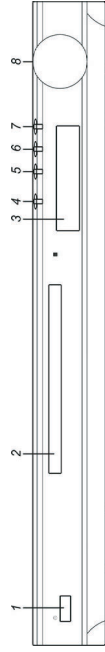


- 1) Auxiliary stereo audio input jacks 1# - right channel
- 2) Auxiliary stereo audio input jacks 1# - left channel.
- 3) Auxiliary stereo audio input jacks 2# - right channel.
- 4) Auxiliary stereo audio input jacks 2# - left channel.
- 5) Sub-woofer audio output:
- 6) Centre audio output
- 7) Right surround audio output
- 8) Left surround audio output
- 9) Right front audio output
- 10) Left front audio output
- 11) Component video output
- 12) Component video output
- 13) Component video output
- 14) Composite video output
- 15) Coaxial digital audio output
- 16) S-Video output
- 17) FM Antenna jack
- 18) AM Antenna jack
- 19) SCART output
- 20) Speaker power output

Notice:

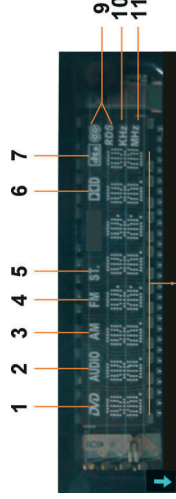
- You can switch the audio input in turn by pressing the "function" button on remote control or the master volume control
- The unit has a built-in amplifier, so you can connect to your speakers directly, and you must notice that each connector has anode (upside) and cathode (underside), same as the speaker, anode to anode, cathode to cathode; please connect them one to one correctly.

8.2. FRONT PANEL INFORMATION



- 1) POWER: Switch the unit, power on and off.
- 2) Disc Tray: Please put the disc on it carefully.
- 3) Front Panel Display: Displays feedback information on player operation.
- 4) OPEN/CLOSE: Open or close the disc tray.
- 5) PLAY/BAND: Start to play back in normal speed; in tuner mode it is used to switch band broadcast between AM and FM.
- 6) PAUSE/JUP: Make a pause during playback, press it again to resume playback; in tuner mode it is used to change the radio frequency up.
- 7) STOP/DOWN: Stop playback; in tuner mode it is used to change the radio frequency down.
- 8) Master volume control/function: Turn left will decrease the sound output level, turn right will increase the sound output level, and you press it repeatedly the unit will switch the working mode to DVD/tuner/aux1/aux2 in turn.

8.3. VFD DISPLAY INFORMATION



- 1) DVD disc indicator: Light up during DVD playback
- 2) Audio CD indicator: Light up during CD playback
- 3) AM band indicator: Light up during listen in AM band radio
- 4) FM band indicator: Light up during listen in FM band radio
- 5) STEREO indicator: Light up during listen in stereo radio (FM)
- 6) Dolby digital audio indicator: Light up during playing Dolby digital audio
- 7) DTS digital audio indicator: Light up during playing DTS sound
- 8) Main display area: Feed back information about working status
- 9) RDS Indicator: Light up if the unit receive RDS signal
- 10) KHz frequency: The units of AM band frequency
- 11) MHz frequency: The units of FM band frequency

8.4. Remote control

8.4.1. STANDBY

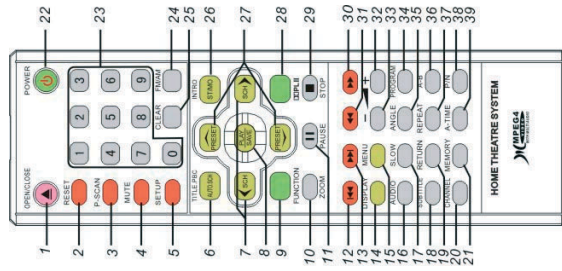
The DVD player can be set to standby mode by press the (POWER) button on the remote control.

Tips

Please press the (POWER) button on the DVD front panel to switch off the DVD player and tear off the power plug from the AC outlet when you have a trip or leave home for a long time.

Notes:

1. Do not leave the remote in an extremely hot or humid place.
2. Do not drop any foreign objects into the remote casing, particularly when replacing the batteries.
3. Do not expose the remote sensor to direct sunlight or light apparatus, doing so may cause a malfunction.
4. If you do not use remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

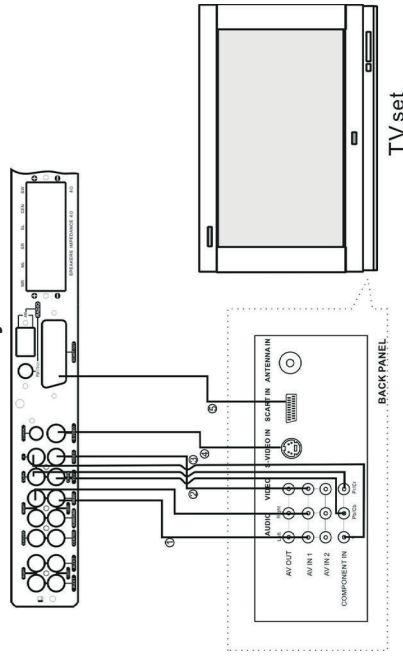


- 1) OPEN/CLOSE: Open/Close disc tray
- 2) RESET: Reload the factory default setting
- 3) P-SCAN: Switches between Progresses scan and Interface scan
- 4) MUTE: Switches audio output ON or OFF
- 5) SETUP: Calls the screen for Player's initial setting, such as Menu language, parental level
- 6) TITLE/PBC/AUTO.SCH: Recall DVD's TITLE menu during playback; enable PBC function during VCD playback, it can allow to you play VCD interactively by following the menu on the TV screen; Searching the broadcasting stations automatically in tuner mode
- 7) LEFT/RIGHT ARROW buttons: Use them to navigate interactive menus on screen; or adjust the radio frequency manually in tuner mode.
- 8) PLAY/SAVE: Start to play back in normal speed, or activates the selected item on interactive menu; In tuner mode it is used to save your favorite broadcasting stations
- 9) FUNCTION: Press it repeatedly the unit will switch the working mode to DVD/tuner/aux1/aux2 in turn
- 10) ZOOM: Zoom in and zoom out image
- 11) PAUSE: Make playback pause
- 12) PREV: Press this to move back to the beginning of the previous chapter/track
- 13) NEXT: Press it to move ahead to the beginning of the

next chapter/track

- 14) DISPLAY: Displays information about playback status on TV screen
- 15) MENU: Recall DVD's ROOT menu or VCD 2.0 menu during playback
- 16) AUDIO: Changes the status to make Audio change possible
- 17) SLOW: Play back in slow motion mode
- 18) SUBTITLE: Changes the status to make Subtitle change possible
- 19) RETURN: Goes back to the specified position defined by Contents provider
- 20) CHANNEL: Select the left or right channel of the stereo audio
- 21) MEMORY: Bookmark favorite spots of your DVDs
- 22) POWER (STANDBY): Switches the unit power ON or OFF
- 23) NUMBER BUTTONS: Select the item number you want by pressing the number buttons directly
- 24) FM/AM: Switches the tuner working mode between FM and AM
- 25) CLEAR: It is used to erase the bookmark, or the wrong digit input, it still can clear the program play list
- 26) INTRO/STMO: Fast scan the content on disc, in tuner mode it is used to switch FM working mode between Stereo and Mono (when it is available)
- 27) UP/DOWN ARROW buttons: Use them to navigate interactive menus on screen; In tuner mode they are used to change different broadcasting stations
- 28) Dolby Pro Logic II: Switches it ON or OFF
- 29) STOP: Stop play
- 30) FAST FORWARD: Fast forward play
- 31) FAST REWIND: Fast reverse playback
- 32) VOLUME +: Increase the sound output level
- 33) VOLUME -: Decrease the sound output level
- 34) PROGRAM: Create your own play lists
- 35) ANGLE: Change the camera position
- 36) A-B: Specifies the parts you want to play repeatedly
- 37) REPEAT: Play title/chapter/track repeatedly
- 38) PIN: Changes the television broadcast standards to PAL or NTSC
- 39) A-TIME: Go to a specific location during disc playing

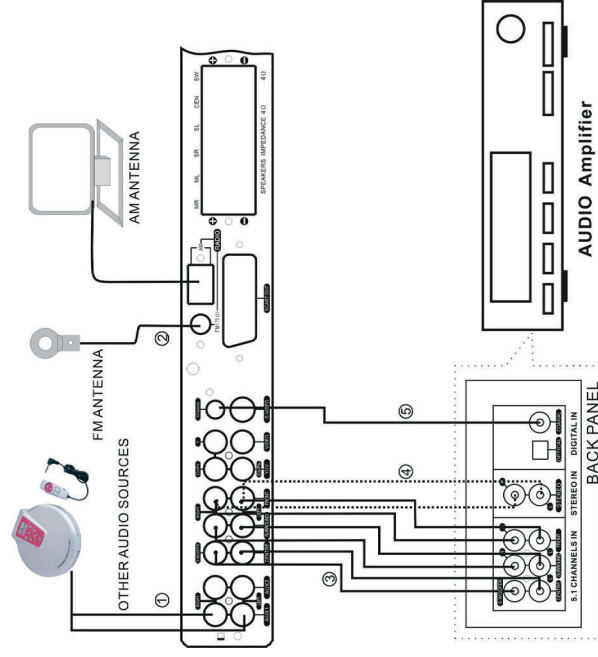
8.5. Connection - Connection to your TV set



There are five choices to connect your TV set and the unit, you can choose one or more connections base on your condition.

- 1) Connect to a TV set with a Audio cable:
Normally, some TV set will built-in one or more Audio input socket. Use the Audio cable to connect the DVD player and the TV set correctly. And go into DVD player setup option, find the "speaker setup page", set the downmix in stereo mode
- 2) Connect to a TV set with a composite Video cable:
Normally, some TV set will built-in one or more Video input socket. Use the Video cable to connect between the DVD player and the TV set correctly. Make sure plug the plugs hardly. Please read your TV set's instruction manual carefully about the AV input
- 3) Connect to a TV set with a Component video cable:
Normally, some TV set will built-in one or more Component Video input socket. Use the Component cable to connect between the DVD player and the TV set correctly. Make sure plug the plugs hardly. Please read your TV set's instruction manual carefully about the component Video input.
- 4) Connect to a TV set with an S-Video cable:
Normally, some TV set will built-in one or more S-Video Video input socket. Use the S-Video cable to connect between the DVD player and the TV set correctly. Make sure plug the plugs hardly. Please read your TV set's instruction manual carefully about how to use S-Video.
- 5) Connect to a TV set with a SCART cable:
Be sure the TV set have a SCART input 21 pin jack, use SCART cable to connect the DVD player and TV set, it is simply you can enjoy the clear image and sound immediately.

8.6. Connection to an amplifier/audio system



There are five choices of connection to audio system:

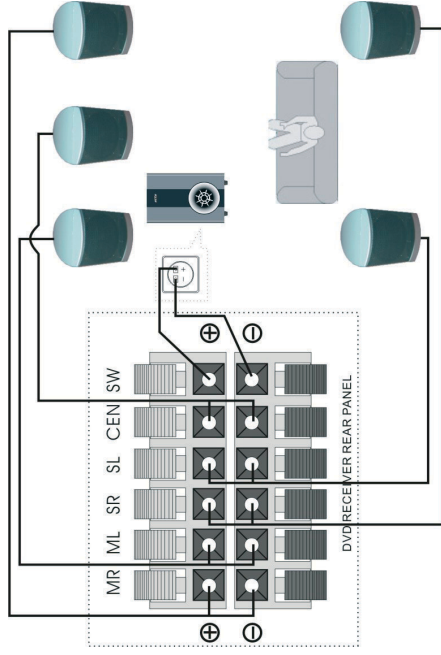
- 1) Receive other audio sources.
This unit can be connected with the other audio sources, which can make use of its amplifier to send high power to the speaker directly
- 2) Receive the radio signal with antenna.
This unit has a built-in tuner, so you can receive the AM and FM broadcast signal.
- 3) Connect to an amplifier with 5.1-channel surround input.
Connect with 5.1 channels output of the unit and corresponding input of amplifier by audio 5.1 channels cable, please set "5.1ch" mode in "speaker setup page"
- 4) Connect to an amplifier with 2 channel sound input.
If you don't have any more but two channel speakers, you can connect with stereo output for the mixing audio of the unit and the stereo of amplifier by audio cable, and go into DVD player setup option, find the "speaker setup page", set the downmix in "STEREO" mode
- 5) Connect to an amplifier built-in DTS and DOLBY digital decoder with digital audio input.
Make sure that your amplifier have a built-in DOLBY or DTS decoder or processor before you do this connection, and then setup audio output to "SPDIF/RAW" mode.

8.6.1. Dolby Digital decoding

This DVD player has a built-in Dolby Digital Audio decoder, it will automatic recognize the audio encoded format and give analog output exactly. Please visit www.dts.com for more information about DTS decoder. And visit www.dolby.com for more information about Dolby Digital and Dolby Pro Logic II.

- Manufactured under license from Dolby Laboratories. "Dolby", "Pro-Logic II" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished works.
- "DTS" and "DTS digital surround" are trademarks of Digital Theatre System, Inc.

8.7. Connection - Connection to speakers



9. RADIO Setup & Operations

This DVD receiver built-in a RDS (Radio Data System) FM and AM radio tuner. An ID will display on the VFD when there is RDS signal in FM mode.
SETUP: Plug the FM & AM antenna to the DVD receiver correctly and put the antenna in the right place where it can receive broadcast signal normally. You can find the FM antenna in the accessories.

FM antenna



Press the (FUNCTION) button on the remote control to switch the DVD receiver to tuner mode. The radio tuner will be default to the band and the station of your last time setting.

9.1. Band Width & Memory

FM: 87.50 ~ 108.00 MHz, AM: 522 ~ 1629 KHz
 Stations for memory: 20 stations for FM and 20 stations for AM.

9.2. Station Preset and Selection

There are auto search mode and manual search for your selection.

- 1) Auto search/Preset for FM
- 2) Press the (FM/AM) button on the remote control to set the FM as current.
- 3) Press the (AUTO SEARCH) button on the remote control.
- 4) Auto search/Preset for AM
- 5) Press the (FM/AM) button on the remote control to set the AM as current.
- 6) Press the (AUTO SEARCH) button on the remote control.
- 7) **Note:** *The auto search mode will stop when the station is full.*
- 8) Manual search/Program
- 9) You can enter the frequency manually by pressing the number buttons.
 For example, you want to listen to a radio station broadcast on 99.3 MHz, just enter the digit number in turn: 9,9,3,0, the unit can automatically lock this frequency.
- 10) Press (PLAY/SAVE) button to save current frequency as a preset station, and then the unit will ask you the preset number, you must enter "0" first before next digit number if your preset station number less than 10.
- 11) During listening to the radio you can press the (LEFT) or (RIGHT) button to adjust the frequency for better quality.
- 12) Station Selection
 The unit can store 20 preset stations each of AM and FM, you can select one with the number buttons or (UP) (▶) and (DOWN) (◀) button on the remote control.

9.3. FM/AM Selection

Press the (FM/AM) button on the remote control to switch between FM and AM.

9.4. STEREO/MONO Switching




Press the (STIMO) button on the remote control to select stereo and mono mode in FM radio function.

9.5. Stereo and Surround effect

The DVD receiver enhances the audio effect with Pro-Logic II when it is in radio mode. Press the (PRO II) button to switch between stereo and Dolby Pro-Logic II surround (7 types effect). Please refer to the Dolby Pro-Logic II section for a more detailed instruction.




10. Basic Operations

10.1. System selection

- To set up the player system as per the connected TV when playing DVD and CD discs:
- If the TV is NTSC by pressing (P/N) button, screen shows:

- If the TV is PAL, select PAL by pressing (P/N) button, screen shows:

- If the TV is MULTI, select MULTI by pressing (P/N) button, screen shows:


10.2. Step/Pause

When playing DVD and CD discs,

- When (PAUSE) button is pressed for the first Time, play will be stopped temporary.

 - Press (PAUSE) button to resume playing

- For DVD Discs, when playing the picture frame-by-frame the step function is used. To enter this mode, press the step button.
- Pressing the (STEP) button each time will advance to the next frame.


10.3. Playing DVD, CD or VCD

Follow these steps to play a DVD, CD or VCD disc:

- 1) Turn on the TV.
- 2) Set the TV to the AV input connected to the DVD player.
- 3) Turn down the volume on your amplifier and then power it on.
- 4) Set the amplifier to the AV input connected to the DVD player.
- 5) Press the POWER button on the front panel of the DVD player.
- 6) Press OPEN/CLOSE on the remote control or front panel to open the disc tray.

- 7) Place the disc in the tray with the label side facing up and playback side facing down. If the disc has two sides, place the disc with the desired label facing up.
- 8) Press OPEN/CLOSE again to close the disc tray.
- 9) Press PLAY on the remote control or front panel. Many discs will load and begin playing automatically when the disc tray is closed. If the DVD has a disc menu, or more than one title, the disc menu may appear.
- 10) Adjust the volume of the player by pressing the VOLUME button on the remote control.

10.4. Additional Disc Playback Options

- 1) To freeze playback, press PAUSE/STEP.
- 2) To resume normal playback, press PLAY.
- 3) To go to the next or previous chapter/track, press NEXT ►► or PREV ◀◀
- 4) To scan forward or backward at variable speeds during playback, press FF ►► or REW ◀◀ repeatedly.
- 5) To play in slow motion at variable speeds, press SLOW repeatedly.
- 6) To stop playback, press STOP once. To resume playback from the same place on the disc, press PLAY.
- 7) To stop playback completely and restart the disc, press STOP twice. To restart the disc, press PLAY.

10.5. Using the DVD's Menu

A DVD is divided into long sections of a picture or a music feature called "titles." When you play a DVD which contains several titles, you can select the title you want using the TITLE button. When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using the MENU button.

- 1) Press TITLE or MENU button
The disc's menu appears on the TV screen.
The content of the menu varies from disc to disc.
- 2) Press ◀/▶/▲/▼ or the number buttons to select the item you want to play or change.
- 3) Press ENTER.

10.6. Playing VIDEO CDs with PBC functions

PBC (Playback Control) allows you to play VIDEO CDs interactively by following the menu on the TV screen.

- 1) Start playing a VIDEO CD with PBC functions. The menu for your selection appears.
- 2) Select the item number you want by pressing the number buttons.
- 3) Press ENTER.
- 4) To return the menu, press MENU
- To enable PBC function, press TITLE/PBC/AUTO.SCH button repeatedly until "PBC ON" appears on screen.
- To disable PBC function, press TITLE/PBC/AUTO.SCH button repeatedly until "PBC OFF" appears on screen.

10.7. Direct select with number button

10.7.1. When playing CD discs,

- Load a disc upon reading the discs you can select/play songs by pressing a number button directly. Press the number button 0-9 to select when the song number is less than 10. For example: To select the 8th song press number button 0 and then 8
The TV screen will show.



Select: 08

- To select song number beyond 9, press the first number and then press the second number. For example: To select the 12th song press 1 and then press button 2.
The TV screen will show.



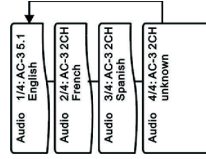
Select: 12

11. Advance Operations

11.1. Sound channels selection

When playing DVD discs, the (AUDIO) button is used to select the desired language. This is only applicable if the discs have a different language function incorporated.

- Example: Press the (AUDIO) button to select a different language. When playing DVD it looks as follows: (Only for (AUDIO))



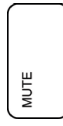
- Example: When playing CD discs, press the channel button to select the channel of currently playing sound track. The screen will scroll like this: (CHANNEL)



11.2. MUTE

When playing DVD and CD discs,

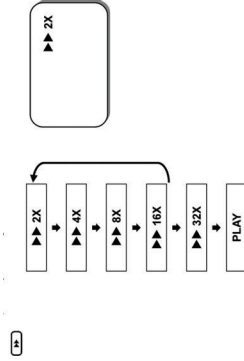
- Press (MUTE) button to mute the output sound. The screen will show: (MUTE)
- To cancel mute function, press (MUTE) button again.



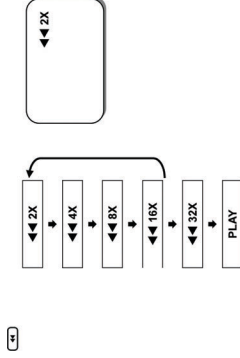
11.3. Fast play

When playing DVD and CD discs, press <left>/<right> button to find a specified part and play.

- When playing DVD and CD disc, press <right> button to enter into fast forward mode. Select fast forward speed by scrolling the <right> button.



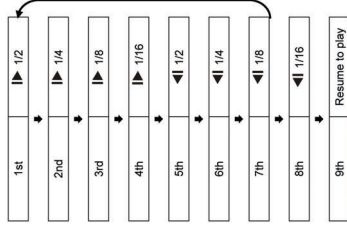
- Pressing <left> button to enter into fast rewind mode. Select fast rewind speed by scrolling the <left> button.



- To resume to normal play mode, press (PLAY) button again.
- When playing a CD disc Press <right> button to enter into fast forward mode. Press <left> button to enter into fast rewind mode.

11.4. Slow Motion play

When playing the DVD discs, the discs will be played in slow motion by pressing (SLOW) button. By pressing the (SLOW) button from 1st to 9th, the player will be in the play mode as below,



Press (PLAY) button to resume normal play anytime.

11.5. Repeated play

11.5.1. For DVD discs:

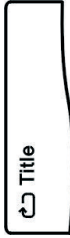
When playing DVD and CD discs, the player can repeat a specified title, chapter, Song or content in a disc or repeatedly play a specified part in a disc (Repeat A-B function).

When playing DVD discs, Title chapter and entire discs can be repeated.

- Chapter Repeat
Press the (REPEAT) button once, the screen will show:



- Title Repeat
Press the (REPEAT) button twice, the screen will show:



- Disc Repeat
Press the (REPEAT) button for 3rd time, the Screen will show:



To cancel repeat function press the (REPEAT) button for the 4th time.

11.5.2. For CD discs:

When playing CD, the player can repeat a single track and a whole disc with the following steps.

- Repeat-One
Press the (REPEAT) button once to repeat to repeat a single track.



- Repeat-All
Press the (REPEAT) button again, the screen shows Rep-All and the entire discs will be repeated.



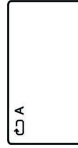
- Repeat-Off
Press the (REPEAT) button again to cancel the repeat function.

11.6. A-B (Repeat)

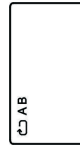
When playing discs, you can repeatedly play the desired part by using the following steps:

- Set the starting point A by pressing the (A-B) button and set the finishing point by pressing the (A -B) button again.

Set A:
(A-B)



Set B:
(A-B)



The player will repeatedly play the part between A and B.

- To cancel A-B repeated play, press the (A-B) button again.

11.7. Selecting subtitles

When playing a DVD with multi subtitles, choose the desired subtitle with the subtitle button.

- When playing DVD discs press the (SUBTITLE) button, select a subtitle as shown on the screen.



- Cancel subtitle selection.
Press the (SUBTITLE) button, until Subtitle off is shown on the screen.

Remarks:

- The function of subtitle is only available for discs with multi subtitles. Language varies from disc to disc

11.8. Search Selection

11.8.1. For DVD discs:

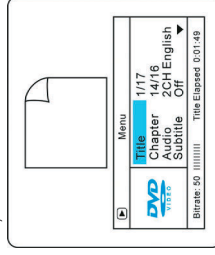
- Chapter and title search. For example: When the player is stopped, to play 3rd chapter in 2nd title.
 - o Press the (SEARCH) button.
 - o Press the digit number button in turn: 0,2,0,3.
 - o The TV screen will shows as:

Note:

Once the desired chapter and title has been input, the player will play the desired track automatically.

Navigation Window (Menu Setting & Advance Search Function)

Press the (A-TIME) button during playing DVD. A navigation window will be displayed on the TV's screen as below. (The information just for reference only)
The scroll list as below,



In this navigation you can choose a Title, a Chapter which you want to play directly. And you can specify the title time and chapter time to play from. You can specify the Subtitle, Angle, Repeat mode and time display mode. Please refer to the operation as below. Press the arrow button to desire an item you want to change and press the (PLAY) button to confirm.

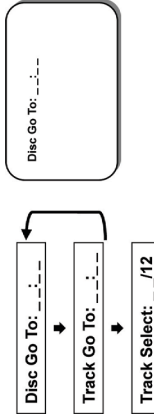
- To desire a Title: Input the desired title via the number button.
- To desire a Chapter: Input the desired chapter via the number button.
- To change the Audio: Select the available item and press the (PLAY) button to confirm.
- To change the Angle: Input the desired number button.
- To desire the title time: Input the desired time via the number button. (HH:MM:SS)
- To desire the chapter time: Input the desired time via the number button. (HH:MM:SS)
- To change the repeat mode: Select the available item and press the (PLAY) button to confirm.
- To change the time display mode: Select the available item and press the (PLAY) button to confirm.

Note:

To exit the navigation window, press the (A-TIME) button again.

11.8.2. For CD discs:

- There are 3 modes to choose: (Below information just for reference) (A-TIME)



- Press the (A-TIME) button, the TV will show the selection of modes one by one.

11.8.2.1. Disc Go To and Track Go To mode

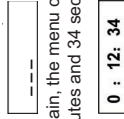
- Input the time (with discs/with the current track) using number keys, in Min/Sec format. Once the desired time has been input, the player will play the desired track automatically.

11.8.2.2. Track Select mode

- Input the track number using number keys, the player will play the desired track automatically. (The total track number will be shown when this function is activated.)

11.8.3. For MPEG4 Discs:

- During playback, you can go to any time you want to watch by pressing SEARCH button. Press SEARCH button first, a pop menu will be displayed on the top left corner of TV screen; you can enter the file list sequence number.



- Press SEARCH again, the menu change to time input mode, you can enter your desired time. For example, you want to play from 12minutes and 34 seconds, just enter the number in turn: 0, 1, 2, 3, 4.

11.9. Angle selection

- For DVD containing multi angle, you can view different screen angles with the (ANGLE) button. For example, when viewing the scene of a train moving forward, you can also chose to view the scene ahead of the train or from the left or the right side, without stopping the movement of the train. This function is available only for discs with multiple angles encoded.

For example: There are 4 angles recorded for a DVD discs.

- Press the (ANGLE) button to select angle 1.



- Select another angle by pressing the (ANGLE) button again. The screen will show in sequence as below.



Remarks:

Before angle play can be selected, you need to turn on the angle function at setup menu. Refer to DVD setup menu for details.

11.10. OSD - On Screen Display

- OSD can be displayed to check the playing time and remaining time for each title/chapter/track. Also, it can display the remaining time for the whole discs.

11.10.1. For DVD discs

- Press the (DISPLAY) button once, and the screen will show the elapsed time for the current title.



- Press the (DISPLAY) button twice, and the screen will show the remaining time for title.



- Press the (DISPLAY) button for a third time, and the screen will show the elapsed time for the current chapter.



- Press the (DISPLAY) button for a 4th time, and the screen will show the elapsed time for the current chapter.

- Press the (DISPLAY) button for the 5th time, and the screen will cancel the OSD.



11.10.2. For CD discs

- For example: To check the remaining time when playing the 2nd song, press the (DISPLAY) button once to shows SINGLE ELAPSED. This is the current track played.



- Press the (DISPLAY) button twice, the screen will show the remaining time for the current track.



- Press the (DISPLAY) button for the third time, the screen will show the elapsed time for the current discs. This is only applicable for a CD discs.

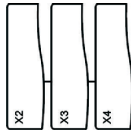


- Pressing the (DISPLAY) button again will cancel the OSD.

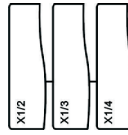
11.11. Zoom

This feature is used to zoom in/zoom out of the motion picture or motionless picture when playing DVD discs.

- There are 3 levels of Zoom in mode, press the (ZOOM) button to choose one.



- And there are also 3 levels of zoom out mode, press the (ZOOM) button to choose.



Press arrow buttons to move the zoomed picture.

- To return to normal size, press (ZOOM) for the 7th time.

Note:

1. During zoom play, you can use the arrow buttons to view the enlarge part that you want.
2. This function can also be used for playing Picture CD.

11.12. Memory play

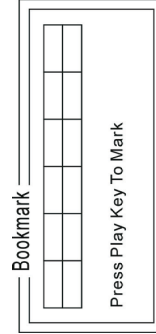
This player can memorize the last stop point and resume play from this point. In (STOP)

- When playing, press the (STOP) button once to stop the playback. The player will memorize the current point. In this state, Press play button to play from the last point.
- By pressing the (STOP) button twice, the memory function will be cancelled.

11.13. Memory Play 2 (Bookmark)

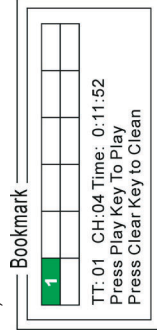
- When playing, press the (MEMORY) button to access the playback bookmark function. There are total 12 bookmarks.

- When playing, press the (MEMORY) button. The TV set will show the bookmark setup menu.



- (PLAY) Press the (PLAY) button to set a bookmark and press (PLAY) button again the player will playback from that bookmark.

- (CLEAR) Press the (CLEAR) button to clear a bookmark.



Note: To clear all bookmark, press the (OPEN/CLOSE) button.

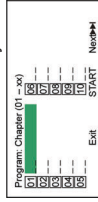
11.14. Program Play

This function allows the user to program the order for songs within a disc and play the programmed sequence.

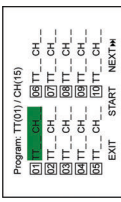
- Press the (PROGRAM) button to access the program menu.
- In the menu, you can use arrow keys and number keys to input the desired title, chapter and track number.
- Select the (START) button and press the (PLAY) button to start play at the programmed sequence.
- Press the (PROGRAM) button again to exit program function anytime.

Note:

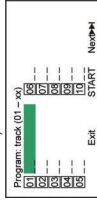
- Edit an item: Input a new chapter or title number again.
Delete an item: Use the arrow button move to the desired item and press the (CLEAR) button.
- When playing a DVD disc with only one title, the TV's screen shows:



- When playing a DVD disc with 15 titles, the TV's screen shows: (For reference only)



- When playing CD discs, the TV's screen shows:



Remarks:

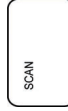
Press the (STOP) button twice to cancel the program function.

11.15. Scan disc

This function allows the user to scan the content of a disc or a song.

11.15.1. When playing CD discs

- To access the intro function, press (INTRO) button on the remote control.



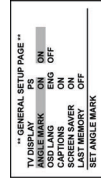
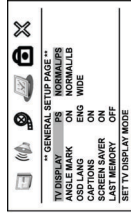
11.15.2. When playing DVD disc

- Press the (INTRO) button and choose from the 4 options:
- Title Digest
- Chapter Digest
- Title Interval
- Chapter Interval
- Press the arrow button to select the desired mode and press the (PLAY) button to confirm.
- To return to the INTRO menu, select the MENU item and press the (PLAY) button
- To exit the INTRO menu, select the EXIT item and press the (PLAY) button.

11.16. General setup

The setup menu is used to configure the player. Press **◀▶/↔** button to select, and press play button to confirm. Press the (SETUP) button and enter into the General setup menu. The screen shows:

- TV Display:
- NORMAL/PS (Pan Scan)
You can see the central portion of the 16:9 screen. Extreme left and right side of movie picture will be cut off.
- NORMAL/LB (Letter box)
You can see the total 16:9 ratio screen DVD, but black bars will appear at the top and bottom of the screen
- WIDE
Select this if you are connecting the DVD player to a wide screen TV. However, DVDs recorded with 4:3 ratio cannot be viewed as the full 16:9 picture even if you setup as shown above.
- Angle mark:

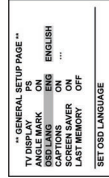


- Set it on:
During play back multi-angle DVD disc, a logo like **1/2** will be shown automatically on top right TV screen, it mean that the DVD you are playing has two angle and you are watching the first angle, you can change viewing angle by pressing ANGLE button on remote control.

- Set it off:
The player will not display the angle mark, though you are playing multi-angle DVD disc.

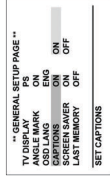
- OSD Language:

- Select your desired language for the player's on-screen display and setup menu.



- Captions:

- Set it on:
Make sure that the DVD disc you are playing has a captions on it, and change your color system of TV to NTSC, then a caption maybe show on TV screen, or not, because only a few TV set can support display captions.



- Set it off:
Disable the function, caption will not be shown.

Notice:

It is quite different from subtitle, subtitle is used to explain the vocal, and captions not only explain it but also give you more information about film. It is very useful for the deaf man.

11.16.1. Screen saver

- Set it on:
When there is no activity with the player for several minutes, a moving picture will be shown on screen to prevent your monitor from damage, which is call screen saver.

- Set it off:
Disable the function, screen saver will not appear.

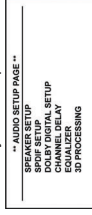
Notice:

During play back the player will automatically disable screen saver

11.16.2. Last Memory

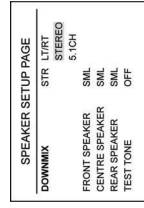
- Set it on:
The unit can automatically start to play the disc DVD/VCD/CD from the last position when you enable this function.

- Set it off:
Turn off the last memory menu option.



11.17. Audio Setup

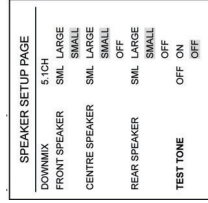
The setup structure is as below
Speaker Setup:



11.17.1. DOWNMIX

The unit can mix a multi-channel sound to encode a two-channel sound, it's called downmix.

- LTRT: for Dolby Pro Logic Surround stereo, it is a matrix encoding process enabling stereo soundtracks to carry four channels of audio information—left, center, right, and surround.
- Stereo: for analog stereo sound.
- Off: enable 5.1 channel discrete surround-sound output



11.17.1.1. Front/Center/Rear speaker and Subwoofer

If the DOWNMIX mode is turned OFF, then select how you want your Front Speakers or Rear Speakers or Center Speaker to be set: either to small (standard setting) or to large. Large means that Bass & Treble audio is sent to the speakers. Small means only Treble audio is sent to the speakers.
You can also switch off the Center Speaker, the Rear L/R Surround Speakers and subwoofer.

We suggest you switch the subwoofer on in order to hear more bass sound.

11.17.1.2. Test Tone

- ON: There will be a channel audio test signal create by the system. It will test from left to centre, right, right surround and left surround. It help the user to setup the speakers easily and correctly.

- OFF: Disable the test tone function.

11.17.1.3. Dialog

When the DOWNMIX is set to LT/RT or Stereo mode, you can adjust the volume of dialogue sound.

11.17.1.4. Post DRC

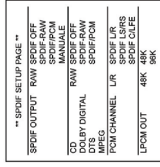
This function limits the maximum volume setting to avoid loudspeaker damage.

The standard setting is Auto

- ON: Limits the maximum volume.
- Off: Switches this function off, please be aware the volume now can be set so high that the possibility exists

11.17.2. SPDIF Setup

The setup structure is as blow:



11.17.2.1. SPDIF Output

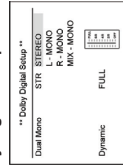
Select the right SPDIF (Sony Philips Digital Interface) for coaxial digital audio transmissions.

- SPDIF Off: turn off digital audio transmissions.
- SPDIF RAW: an untouched digital audio signal will be transmitted.
- SPDIF/PCM: for two channels audio transmissions, a multi-channel sound will be mixed to re-encode a two-channel sound.
- Manual: choose different option for each audio

11.17.2.2. Lpcm Output

Both "48K" and "96K" are sampling frequency. Generally, high sampling frequency can give you a better sound quality.

11.17.3. Dolby Digital Setup



11.17.3.1. Dual Mono

- Stereo: Left channel signal will be sent to left speaker, and Right channel signal will be sent to right speaker.
- L-Mono: Left channel signal will be sent to both left and right speaker.
- R-Mono: Right channel signal will be sent to both left and right speaker.
- Mix-Mono: both left and right channel audio will be mixed to encode a mono sound, you will hear the same sound from each speaker

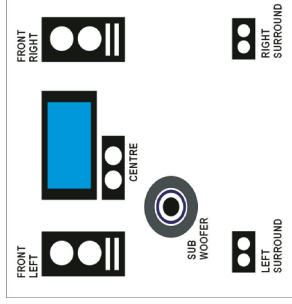
11.17.3.2. Dynamic

When set the dynamic range to FULL, the soft music will be automatic increase and the loudness music will be automatic decrease.
When set the dynamic to OFF, the function will be disabled.

Note:

This setting use to playing Dolby Digital encode disc.
This function is suit to use at night.

11.17.4. Channel Delay



This function allows you to adjust the channel delay.

- Centre: 0-170cm (Preset is 0cm)
 - Subwoofer: 0-510cm (Preset is 0cm)
 - LS (Left Surround): 0-510cm (Preset is 170cm)
 - RS (Right Surround): 0-510cm (Preset is 170cm)
- 11.17.4.1. Operating steps:**
- Press UP and DOWN button to select centre, subwoofer or left surround and right surround.
 - Press LEFT and RIGHT button to adjust the delay value.
 - Press PLAY to confirm the change.
 - Press SETUP to exit the setup menu.

11.17.5. Equalizer Setup

The setup structure is as below:

** Equalizer **	
EQ TYPE	NONE
ROCK	NONE
POP	ROCK
LIVE	POP
DANCE	LIVE
TECHNO	DANCE
CLASSIC	TECHNO
SOFT	CLASSIC
BASS BOOST	SOFT
SUPER BASS	ON
TREBLE BOOST	OFF
	OFF
	OFF
	OFF

11.17.5.1. EQ type

There are 8 kinds DSP mode for your selection: OFF, ROCK, POP, LIVE, DANCE, TECHNO, CLASSIC, SOFT. Select the mode to suit your liking.

11.17.5.2. Bass Boost:

Set to on order to gain the perfect Bass effect.

11.17.5.3. **Super Bass:**
Set to on will enhance the very perfect Bass effect.

11.17.5.4. **Treble Boost:**
Set to on order to again the perfect Treble effect. It will decrease the Bass effect.

11.17.6. **3D Setup**
The setup structure is as below:

** 3D PROCESSING PAGE **	
Dolby PRO LOGIC II	OFF
REVERB MODE	OFF
CONCERT	
LIVING ROOM	
HALL	
BATH ROOM	
CAVE	
ARENA	
CHURCH	

11.17.6.1. **Dolby PRO-LOGIC II**

- ON: Simulate 2 channel audio as 5 channel audio output.
 - OFF: Disable the function.
- Pro Logic II is a matrix decoder. It creates a 5.1-channel experience from a stereo input. Such as FM stereo and 2-channel Video movie clips.
There are 4 modes for your selection:

- Music Mode
Use for stereo music programs.
- Movie Mode
Use wherever Pro Logic was used before. It supported:
 - 10ms second surround delay added for Haas effect.
- Auto balance enabled
- Pro-Logic
Use for movie clips.
- Auto
The player will automatic recognize and set the audio output to Movie/Music/Pro-Logic mode.

11.17.6.2. **Reverb Mode**
To gain better surround effect, you can set this item feature into concert, Living Room, Hall, Arena or church suit with your personal hearing requirements.

11.17.7. **Dolby Pro-Logic II configuration**

** DOLBY PRO LOGIC II CONFIGURATION **	
MODE	REVERB
PANORAMA	OFF
DIMENSION	00
CENTRE WIDTH	00
LEVEL 0	
LEVEL 1	
LEVEL 2	
LEVEL 3	
LEVEL 4	
LEVEL 5	

- 11.17.7.1. **Panorama**
ON: Enable the panorama effect.
- OFF: Disable the panorama effect.

11.17.7.2. **Dimension**

This item is use to change the sound's stereo effect. You can set to the suitable item when playing different media.

11.17.7.3. **Centre Width**

This item is use to change the sound's centre effect. You can set to the suitable item when playing different media.

11.18. VIDEO SETUP

** VIDEO SETUP PAGE **	
COMPONENT	OFF
YUV	OFF
RGB	OFF
INTERLACE	OFF
P-SCAN	OFF
TV-MODE	
QUALITY	

11.18.1. **Components Video setup**

The DVD player can be set as YUV and RGB video mode.

- YUV – set the DVD player to YUV mode. (Option for connect to the TV set with component video.)
- RGB – set the DVD player to RGB mode. (Option for connecting to the TV set with SCART.)

11.18.2. **TV-MODE**

- Interlace
When select this item, the video output will be switched to interlace mode.

P-SCAN

- When select this item, the video output will be switched to progressive scan mode.

11.18.3. **Progressive Scan**

This player support progressive scan video output. You can switch the video output to progressive scan or interlace scan by press (Y,Pb,Pr) button on the remote control.

Remarks: Make sure your TV set support progressive scan signal input and correct connection before you switch to progressive scan video output.

ATTENTION:

If you have activated "PROGRESSIVE SCAN" and there is no picture on the screen, please press the "Y,Pb,Pr" button to get back into the normal Modus without "Progressive Scan". Your TV is not supporting "PROGRESSIVE SCAN"

11.18.4. **Video Quality**

VIDEO QUALITY SETUP	
SHARPNESS	LOW
BRIGHTNESS	00
CONTRAST	00
GAMMA	NONE
	HIGH
	MEDIUM
	LOW
	NONE
HUE	00
SATURATION	00
LUMA DELAY	1T
	0T
	1T

11.18.4.1. **Sharpness**

The picture can be set to high, Medium or Low. If the motion picture is light, please choose the low option if the motion picture is dark, please choose the high option.

11.18.4.2. **Brightness**

The picture can be set to a certain value to suit with the light of the environment or your preference.

11.18.4.3. **Contrast**

The item can be set to a certain value to suit with the light of environment or your preference. For setting the Brightness and the Contrast, press right button to enter the setup column, and press button to change the value. Press Left button to return to the setup menu.

11.18.4.4. **Gamma**

To changed the value of the gamma.

11.18.4.5. **Hue**

To changed the value of the hue.

11.18.4.6. **Saturation**

To changed the value of the saturation.

11.18.4.7. **Luma Delay**

The picture can be set to 0T or 1T to suit with the brightness of your TV. In normal cases set to 1T or 0T depending on your TV.

11.19. Preference Page

- 11.19.1. **TV SYSTEM**
The system can be set to PAL, NTSC or MULTI.
- 11.19.2. **PBC**
PBC can be seated into on or off.
- On: It means that the PBC function is enabled.
- Off: It means that the PBC function is disabled.

11.19.3. AUDIO

- Choose the default language you would prefer to hear your DVD in.

Note: *Not all DVD are recorded in multiple languages.*

11.19.4. SUBTITLE

- Choose the default you would prefer to read film subtitles in. Or select OFF to disable subtitles. Not all DVD offer subtitles in multiple languages.

11.19.5. DISC MENU

- Choose the language for the player's On screen instructions and message

11.19.6. PARENTAL CONTROL

- Allows the user to set a maximum rating of movie that can be viewed e. g. PG rating) Movies rated higher than the level set for the parental lock can not be viewed. The parental lock can only be changed by the keying in of a password. Note: For this function to operate correctly then the disc must have a rating signal encoded on it. Not all DVD carry this rating signal.

11.19.7. CHANGE THE RATING

- 1) Press UP and DOWN button to select the desire level.
- 2) Press (PLAY) button to confirm.
- 3) Insert supervisor password.
- 4) Press (PLAY) button to active the new setting.

11.19.8. SUPERVISOR PASSWORD

The supervisor password is "49540".



11.19.9. DEFAULT

This function use to restore the factory preset. Press arrow buttons to select this menu item and press (PLAY) to confirm.

Note:

All personal setting will be lost once you select the RESET menu.

12. MPEG-4 Operations

12.1. MPEG-4 Playback

When the MPEG4 disc is loaded, the TV screen will be shown as follow:
(For reference only)



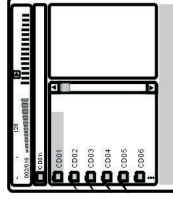
- To choose a sub-directory, use the UP or DOWN button and then press the PLAY or Right button to confirm it.
- Return to the parent directory: Press Left arrow button to return to the parent directory, so that you can then select another directory if necessary.
- Select a file to play by using Up or Down arrow buttons and press PLAY button to play it.
- Another operation you can refer to MP3 page, such as repeat and program, their operation is the same

13. MP3 Operations

13.1. MP3 Playback

MP3 is international audio format that compresses sound signal 12:1. A MP3 disc can record near CD quality music that is over 600 minutes long or more than 170 songs.

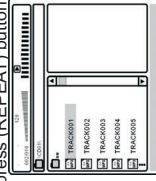
Upon loading the disc, the screen shows a menu as follows:



- To choose the preference directory, use the UP and DOWN button and then press the PLAY button to confirm.
- Select song by using arrow button to choose the preference song and press (PLAY) button to play it.
- Return to the parent directory. Press arrow button and then press (PLAY) button to return to the parent directory, you can then select another directory.

13.1.1. Play mode:

- In play mode, press (REPEAT) button to choose the play mode. The TV screen will show:



There are 4 kinds of play mode:

- SINGLE:** In this mode, the player will play back the current song only.
- REPEAT-ONE:** In this mode, the player will play the current song repeatedly.
- FOLDER:** In this mode, the player will play all the songs of the current folder
- REPEAT-FOLDER:** In this mode, the player will play back the songs of the current repeatedly.

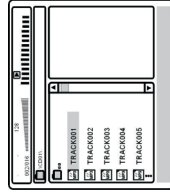
14. MP3/AVI Files Program Play Operations

14.1. MP3/AVI Files Program Playback

14.1.1. Other functions:

Function such as mute, volume control pause Prev/Next song selection, audio selection and so on, the also available for MP3 discs. The operation is the same as that to play an audio CD disc.

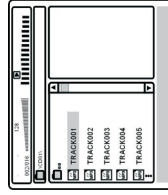
14.1.2. Access program mode and add songs to play list.



- 1) Press (STOP) button to stop the playing disc.
 - 2) Press (PROGRAM) button to enter the program mode.
 - 3) Press UP and Down button to select the desire song.
 - 4) Pres (CLEAR) button add the desire song to the play list.
 - 5) Repeat step 3 and 4 to increase the songs, which are played according to list as you wish.
 - 6) Press (PROGRAM) button to switch to the program list window.
 - 7) Press (PLAY) button to begin program play.
- In this mode all songs of the disc will be shown on the menu in order.

14.1.3. Delete songs from the play list.

In program list window, the TV screen shows.



- 8) Press (STOP) button to stop the playing disc.
 - 9) Press UP and DOWN button to select the desire song.
 - 10) Press (CLEAR) button to confirm deleting current song.
 - 11) Repeat step 1-3 to delete all the songs in the play list.
- The navigation system will go back to the root of the disc automatically after all the songs in the play list are deleted.

14.1.4. Return to normal play mode.

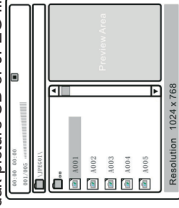
- Press (PROGRAM) button to return to the normal play mode when plays in program mode.
- Program mode will be canceled when press (OPEN) button in any case.

15. Kodak Picture CD Operations

15.1. Playing Kodak picture CD or JPEG files

This function is similar to MP3 playback function.

Upon loading a Kodak picture CD or JPEG file CD, the TV screen shows.



15.1.1. Operations:

Picture Selection & Preview

Press arrow buttons to select the target picture and press (PLAY) button to show.

The player will automatic preview the picture when the cursor stops.

Rotate Picture

You can press arrow buttons to rotate current showing picture when the picture playing.

Previous and Next selection

You can press (PREV) buttons to show previous picture or press (NEXT) button to show next picture manually.

Zoom in and Zoom out

You can press (F.FWD) button to zoom in the current showing picture or press (F.REW) to zoom out the current showing picture.

15.2. Slide Show:

The player will automatic play picture in slide show mode if the CD include more one picture.

15.2.1. Slide Show mode:

The play support 16 kinds slide show mode as below,

- 1) Wipe top
- 2) Wipe bottom
- 3) Wipe left
- 4) Wipe right
- 5) Diagonal wipe left top
- 6) Diagonal wipe right top
- 7) Diagonal wipe left bottom
- 8) Diagonal wipe right bottom
- 9) Extend from centre H
- 10) Extend from centre V
- 11) Compress to centre H
- 12) Compress to centre V
- 13) Window H
- 14) Window V
- 15) Wipe from edge to centre
- 16) Normal

Press (PROGRAM) button to change the current slide show mode when playing pictures.

16. Maintenance & Troubleshooting

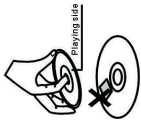
16.1. How to handle discs

To handle, clean and protect discs

- Do not touch the playing side of a disc
- Do not stick any paper or glue strip on a disc.

16.1.1. How to clean discs

- Finger prints and dust on surface can affect the sound and picture quality. Clean discs regularly with a soft cotton cloth from disc centre to the edge



- For sticky dust, wipe it with wet cloth and with dry cloth, any kind of solvent, such as diluting agent, gasoline, liquid detergent, gasoline liquid detergent anti - static aerosol used for vinylon LP, may cause disc damage.

16.2. How to protect discs

- Keep away from the direct sunshine or any heat source.
- Do not put discs in damp or dirty places, such as bathroom or near humidifiers. Store discs vertically in disc box and store in a dry place. Piling discs on to top of each other or excess weight load on disc box may cause the disc to warp.

16.3. Disc Compatibility

- Some DVD discs may have special requirements for playing, with which this player may not be compatible. Please refer to specifications on individual disc.

DISC TYPE	Contents	Dimensions	Total time
DVD	AUDIO/ VIDEO	12 cm	About 2 hours (single side single layer) About 4 hours (single side double layer) About 4 hours (double side single layer) About 8 hours (double side double layer) About 74 minutes About 300 minutes
CD-DA	AUDIO	12 cm	
MP3	AUDIO	12 cm	

16.3.2. Region code

The region code for this player is 2, which indicates the applicable. The disc with code number other than 2 cannot be played on this player and screen will indicate the nonconformity.

16.3.3. Copyright

According to the related law, DVD discs without proper authorization are not allowed to be copied broadcast cable broadcast, played publicly or rented. As DVD discs are anti-piracy the copied content is distorted.

16.3.4. TV system

Connect this player to a PAL/NTSC compatible TV.

16.4. Problems and Solutions

If a fault occurs, first check the points listed below before taking the set for repair. If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

WARNING: Under no circumstances should you try to repair the set yourself, as this would invalidate the guarantee.

Problems	Cause	Solution
No power indication	Power plug not connected	Plug the power cord into the power supply
No picture	TV has not been set to the correct video input	Set correct TV video input format for receiving the player's output signals.
	Video cable not firmly connected.	Firmly insert the video cable ends to the related terminals.
No sound	Audio cable not connected tightly	Firmly insert the audio cable ends to the related terminals.
	Power of audio apparatus is off	Turn on the power of audio apparatus.
	Audio output setting is incorrect	Setup audio output correctly via the setup menu.
Picture distortion	Disc is dirty	Take out the disc and clean.
	Fast forward/backward is activated	The picture may be distorted during fast forward /backward playback.
Brightness unstable or noisy	Affected by anti-piracy circuit	Connect the player directly to TV.
The player does not work	No disc	Load a disc.
	Disc not compatible	Load a compatible disc (Check the disc format and its colour system).
	The disc is placed upside down	Check disc is put in correctly.
	The disc not put in the tray correctly	Check disc is put in correctly.
	Disc is dirty	Clean the disc.
	Player setting are incorrect	Change the setting via the setup menu.
	Parental lock is in effect	Disable this function or reset the rating level.
No response to key press	Interference of power wave or other factors such as static interference	Turn off the main switch or pull out the power plug, plug it in and turn on the power again.
Remote control does not work	The remote control not pointed at the remote sensor on the front panel of the player	Point the remote control at the remote sensor.
	The remote control is out of specified range	Make sure the remote control range within 7 meters to the remote sensor.
	Battery power exhausted	Replace with new batteries.

Note:

This produce incorporates copyright protection technology that is protected by method claims of certain U.S. patent 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 users only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

17. Specifications

17.1. MPEG-4 PLAYER/OUTPUT/ACCESSORIES

17.1.1. MPEG-4 PLAYER:

Power supply	AC ~100-250V 50/60Hz
Watts	25W
Weight	2.6Kg
Dimension	430X48X310mm(W/H/D)
Signal system	PAL/NTSC
Laser	Semi-conductor laser, wave length 650nm, 780nm
Frequency range	DVD liner sound: 48KHz pulse modulation 20Hz~20KHz 96KHz pulse modulation 20Hz~20KHz CD Audio frequency: 20Hz~20KHz
S/N	>90dB
Audio dynamic range	>85dB
Operation condition	Temp: 0°C~40°C, Operation state: Level surface
AMPLIFIER output	60W MAX

17.1.2. SPEAKERS

Description	Power Output	Dimension(mm)	Weight(Kg)
Subwoofer	20W MAX	170x265x305	3.4
Satellite (5PCS)	8W MAX(each)	85x112x100	0.35

17.1.3. OUTPUT:

Video output	1.0V (P-P), 75 ohm
S-Video output	(Y) 1.0V (P-P), 75 ohm (C) 286mV (P-P), 75 ohm
Analog audio output	2.0V (rms)
Component video output	(Y) 1.0V (P-P), 75 ohm 0.7V (P-P), 75 ohm

Designs and specifications are subject to change without notice.

18. Free Support through Email & Web

Visit Nortek Web site at www.nortekonline.com. Click the Support section where you can access valuable information including: The latest software driver releases, installation guides, FAQ's, spare parts, troubleshooting, downloads and drivers. Alternatively, you can email you can email the difficulty you are experiencing to dott.nortek@nortekonline.com.

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