CyberHome

DVD-Player
AD-L 528

Manual
Bedienungsanleitung
Mode d'emploi

www.cyberhome-europe.de

DOLBY DIGITAL   **VIDEO CD**   **COMPACT disc DIGITAL VIDEO**   **MP3**   **DIGITAL dts SURROUND**

Safety Instructions

Dear Customer,

May we take this opportunity to thank you for purchasing this DVD-Player. We strongly recommend that you carefully study the Operating Instructions before attempting to operate the unit and that you note the listed precautions.

■ **Power cord protection**

To avoid any malfunctions of the unit and to protect against electric shock, fire or personal injury, please observe the following:
- Hold the plug firmly when connecting or disconnecting the AC power cord to this unit.
- Do not connect or disconnect the AC power cord when your hands are wet.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.
- Remove dust, dirt, etc. on the plug at regular intervals.
- If the unit has been dropped or otherwise damaged, turn off the power and disconnect the AC power cord.
- If smoke, odours or noises are emitted from the unit, turn off the power and disconnect the AC power cord.

■ **Placement**

Avoid placing the unit in areas of:
- direct sunlight, heating radiators or closed automobiles
- high temperature [over 35° C (95°F)] or high humidity (over 90%)
- excessive dust
- vibration, impact or where the surface is tilted, as the internal parts may be seriously damaged

■ **Non-use periods**
- When the unit is not used, turn the power off.
- When the unit is unused for a long period of time, the unit should be unplugged from the household AC outlet.

■ **No fingers or other objects inside**
- Touching internal parts of this unit is dangerous and may cause serious damage to the unit. Do not attempt to disassemble the unit.
- Do not put any foreign object on the disc tray.

■ **Keep away from water and magnets**
- Keep the unit away from flower vases, tubs, sinks, etc. If liquids are spilled into the unit, serious damage could occur.
- Keep magnetic objects, such as speakers, distant from the player.

■ **Stacking**
- Place the unit in a horizontal position and do not place anything heavy on it.
- Do not place the unit on amplifiers or other equipment, which may become hot.

■ **Condensation**

Moisture may form on the lens in the following cases:
- immediately after a heater has been turned on
- in a steamy or very humid room
- the unit is moved from a cold environment to a warm one
If moisture forms inside this unit, it may not operate properly.
In this case, turn off the power and wait about one hour for the moisture to evaporate.

■ **Noise interference on the TV while a broadcast is being received**

Depending on the reception condition of the TV, interference may appear on the TV screen while you are watching a TV broadcast, if the unit is switched on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off this unit.

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR ANNOYING INTERFERENCE, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND ONLY USE THE RECOMMENDED ACCESSORIES.

CAUTION
RISK OF ELECTRIC SHOCK!
DO NOT OPEN!

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER TO QUALI-FIED SERVICE PERSONNEL FOR SERVICING.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of not isolated "dangerous voltage" within the inside of the product that may be 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 servicing instructions in the literature accompanying the appliance.

Use of the controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

DANGER

Invisible laser radiation when cover is opened and interlock failed or defeated. Avoid direct exposure to beam.

The DVD-Player is a class 1 laser product. However, this DVD-Player uses a visible laser beam, which could cause hazardous radiation exposure, if directed. Be sure to operate the DVD-Player correctly as instructed.

When this DVD-Player is plugged into the plug socket, do not place your eyes close to the opening of the disc tray and other openings to look into the inside of this player.

Do not open covers and do not repair yourself. Refer to the qualified personnel for servicing.

CLASS 1
LASER PRODUCT

This DVD-Player has been constructed and produced in the way that it adheres to "Locale Management" information, which are recorded on a Digital Video Disc (DVD). If the number of the destination area on a DVD does not correspond with the number of the destination area of this DVD-Player, this device won't be able to play the corresponding disc. The device is set to region code "2".

TABLE OF CONTENTS

FEATURES

General Functional Features:

- Supports the following disc formats:
  Suitable for DVD, Video CD (versions 1.1 and 2.0), SVCD, conventional Audio CD's, CD-R/RW, MP3 and DTS discs.

- Multiple levels of slow playback:
  Slow motion without distracting signals in various speeds.

- Repeat playback:
  Video segments can be selected for repeat playback.

- Display optional in different languages:
  Usage mode will be displayed on the screen in different languages.

- Presetting functions for DVD, VCD and CD:
  Simple preset selection method during DVD, VCD and CD modes are provided; the playback sequence of programs can be arranged in your own way.

- Multi-functional remote control:
  A great number of functions can be controlled by the remote control in a convenient way.

- Direct selecting function (DVD, VCD, MP3 and CD):
  Numbered buttons for quick direct selection of DVD, VCD, MP3 and CD titles.

- Multi-channel selection:
  Allows selection between 2 channel stereo output and 5.1 channel surround output.

PREPARATION KNOWLEDGE

This device supports the following disc formats:

Suitable discs & their marks	Diameter / Side / Layer	Maximum playing time
DVD VIDEO	DVD 12 cm / Single / Single 12 cm / Single / Double 12 cm / Double / Single 12 cm / Double / Double	MPEG II TYPE 133 min. (4.7 GB) max. 242 min. (8.5 GB) max. 266 min. (9.4 GB) max. 484 min. (17 GB) max.
VIDEO CD	VCD 12 cm / Single / Single	MPEG I TYPE 74 min. max.
	SVCD 12 cm / Single / Single	MPEG II TYPE
COMPACT disc DIGITAL AUDIO	CD - DA 12 cm / Single / Single	74 min. max.
	CD - DA 8 cm / Single / Single	20 min. max.
MP3	MP3 8 cm / Single / Single 12 cm / Single / Single	MPEG I layer - III 640 min. max.

- DVD and VCD: Audio and Video discs (including multi-channel playback)
- CD-DA and MP3: Only Audio discs
- This device conforms to the standards of DVD, SVCD, VCD (v1.1 and v2.0). You can perform different playback functions depending on the type of discs.
- Don't load any exceptional discs in the Player, as this will cause null playback or other problems.

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POINTS FOR ATTENTION

⚠ **Please consider the following points in order to use this disc player correctly and safely.**

Power:
- Please connect the device to the correct power outlet (V AC 110 oder 220/240 oder 110/230 Switch). Please compare the mains voltage on the rear panel.

Power Lines:
- Please DO NOT place heavy objects on the device, as this may result in fire and electric leakage.
- When the player is not in use for a long time, disconnect the power line/s.

Suitable Location:
- Please do not place the device on the following locations:
  - easily affected by vibration
  - with high humidity
  - with poor ventilation
  - with direct sunlight
 - with too high or too low temperature

- The device should be placed on a leveled surface.
- To prevent being affected by electromagnetic fields, please place the device away from television, radio, computer and speaker.

Safety Notice:
- Contacting the device's internal structure may result in the danger of electrical shock, thus please DO NOT remove the upper lid.
- Never place heavy objects on the device.

Prevention of Condensation:
- When the device is suddenly moved from a cold to a warm location, it may cause the production of dew. Thus, please keep the device switched off for about 1-2 hours before the playback of any titles.

Labeling Side
Surface
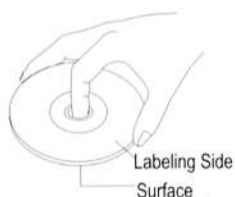
Labels

Tapes

Handling of Discs:
Please hold the disc by gripping the rim or by placing the index finger in the central hole. Never touch the signal surface, which is shiny. (Both sides for double side discs.)
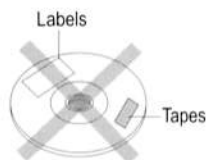
Never add labels or adhesive tapes on the discs and do not scratch or damage the discs.
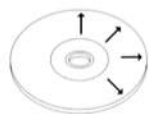
Cleaning of Discs:
Finger prints or stains on the surface of the disc will directly affect signal missing. Depending on the degree of stain, the reflected luminosity from the signal surface may be weakened, resulting in a poorer picture quality. Therefore, please use a soft cloth and wipe in a radiating manner from the centre to the outer rims when cleaning the disc.

If the surface of your disc is very dirty, please wipe the disc with a moist cloth, finally use a dry soft cloth to remove all the water stains.

Never use electrostatic prevention products as well as solutions which contain benzene, thinner or any other vaporizing substances, as they may damage the disc surface.

Storage of Discs:
To prevent discs from getting bent or deformed, they should be vertically kept in the disc storage case. To prevent damages, avoid placing them in a car, which may contact direct sunlight.

Please thoroughly read the "Instruction Points for Attention" on the discs.

Cleaning of Player:
The control panel and the case of the player only require wiping with a soft cloth. Areas with stubborn stains can be cleaned with a soft cloth dipped in a neutral detergent. To prevent damaging the player, never use vaporizing solutions.

Disc Accessory:
Do not use any disc accessory to improve the audio quality or disc protective and lens cleaner, both will cause failure.

OPERATION

Control Panel

1. **Power**
   Switch the device on or off

2. **Volume**
   For adjusting volume of headphones/microphones*

3. **Headphone/Mircrophone sockets***
   For connecting the headphones/microphones*

4. **Open/Close**
   Opens or closes the disc tray

5. **STOP ■**
   To stop the play mode

6. **PAUSE II**
   Able to still a particular frame. When the frame is stationary, pressing again the PAUSE button will shift to the next frame for step action.

7. **Fast Backward Search ◄◄**
   Fast backward search while playing (2x, 4x, 8x)

8. **Skip Previous I◄◄**
   Skips to the previous video segment while playback. When PBC of VCD is activated, use I◄◄ to get to the previous part of the content index.

9. **Skip Next ►►I**
   Skips to the next video segment while playback. When PBC of VCD is activated, use ►►I to get to the next part of the content index.

10. **Play ►**
    Loading the disc; starts playing

11. **Fast Forward Search ►►**
    Fast forward search while playing (2x, 4x, 8x)

Note: When pressing the keys ◄◄ and ►►I of the control panel, you will directly come into the setup menu of the DVD-Player.
   When pressing the keys ►► and I◄◄ of the control panel, the DVD-Player will automatically return to the factory setting.

* Functions marked with "*" are not available on all models.

4

OPERATION

Display

1   **2**   **3**   **4**   **5**   **6**   **7**   **8**

DVD   CD   Super   VCD

REPEAT 1   A - B

TITLE CH   CHP TRK

REMAIN   DOLBY   d t s Zoom

ANGLE   DIGITIAL   5.1 CH

PBC

L / R

17   **16**   **15**   **14**   **13**   **12**   **11**   **10**   **9**
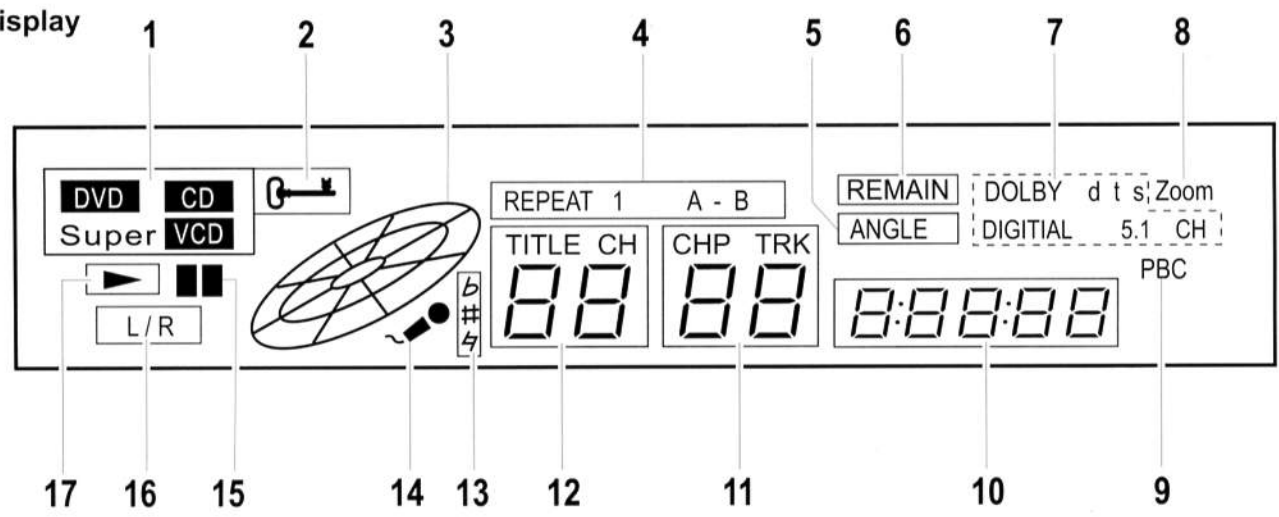
1. Indicates the inserted disc type
2. Indicates the rating function of the inserted disc
3. Indicates the status of the playback (PLAY/STOP)
4. Indicates that the repeat play function is activated
5. Indicates the multi visual angles status
6. Indicates the remaining time of the disc
7. Indicates the playing Audio mode
8. Indicates zoom in/zoom out status
9. Indicates PBC ON/OFF (VCD)

10. Indicates the playback time
11. Indicates the current chapter or track
12. Indicates the title number of the disc playing
13. Indicates the key status in Karaoke mode*
14. Indicates that the microphone is on or off in Karaoke mode*
15. Indicates the PAUSE mode
16. Indicates statement of the front right and front left speakers output
17. Playback indicator

*Only available on some specified models.

30   30
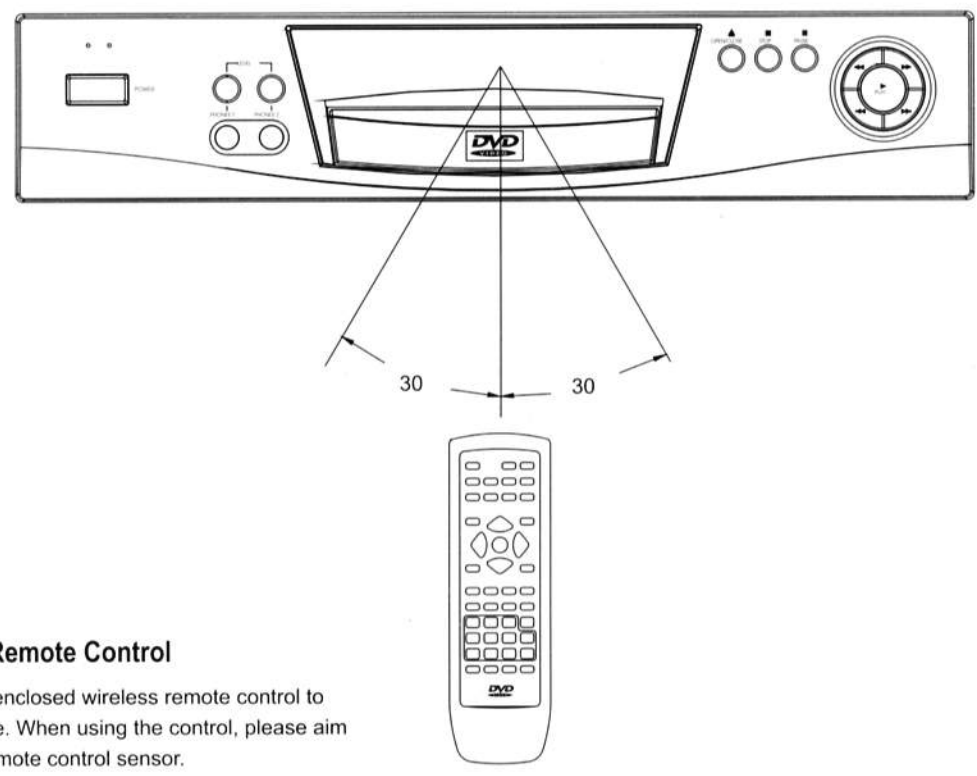
Operation of Remote Control

You can use the enclosed wireless remote control to
control this device. When using the control, please aim
at the device's remote control sensor.

OPERATION

Remote Control

If the remote control only operates when you get closer to the device, it means that the batteries have been used up. Please replace the two batteries simultaneously with two new UM-3/R6/AA batteries. Please note the +, - polarity.

PUSH OPEN

AA. 1.5V

1 POWER	SETUP 33
	OPEN/CLOSE 34
2 TITLE	MUTE ON/OFF 32
3 MENU PBC	SUBTITLE 31
4 BOOKMARK	ANGLE 30
5 DISPLAY	AUDIO 29
	28
6 ◄◄	►► 27
7 ENTER	
8 ◄	► 26
9 ▼	
10 I◄◄	►►I 25
11 PLAY ►	STOP ■ 24
12 SLOW I►	PAUSE II► 23
13 PROGRAM	RETURN 22
14 REPEAT 1/ALL	A-B 21
15 1 2 3	C 20
4 5 6	+10
7 8 9	0
16 GOTO	INTRO 19
17 ZOOM	EFFECT KARAOKE 18
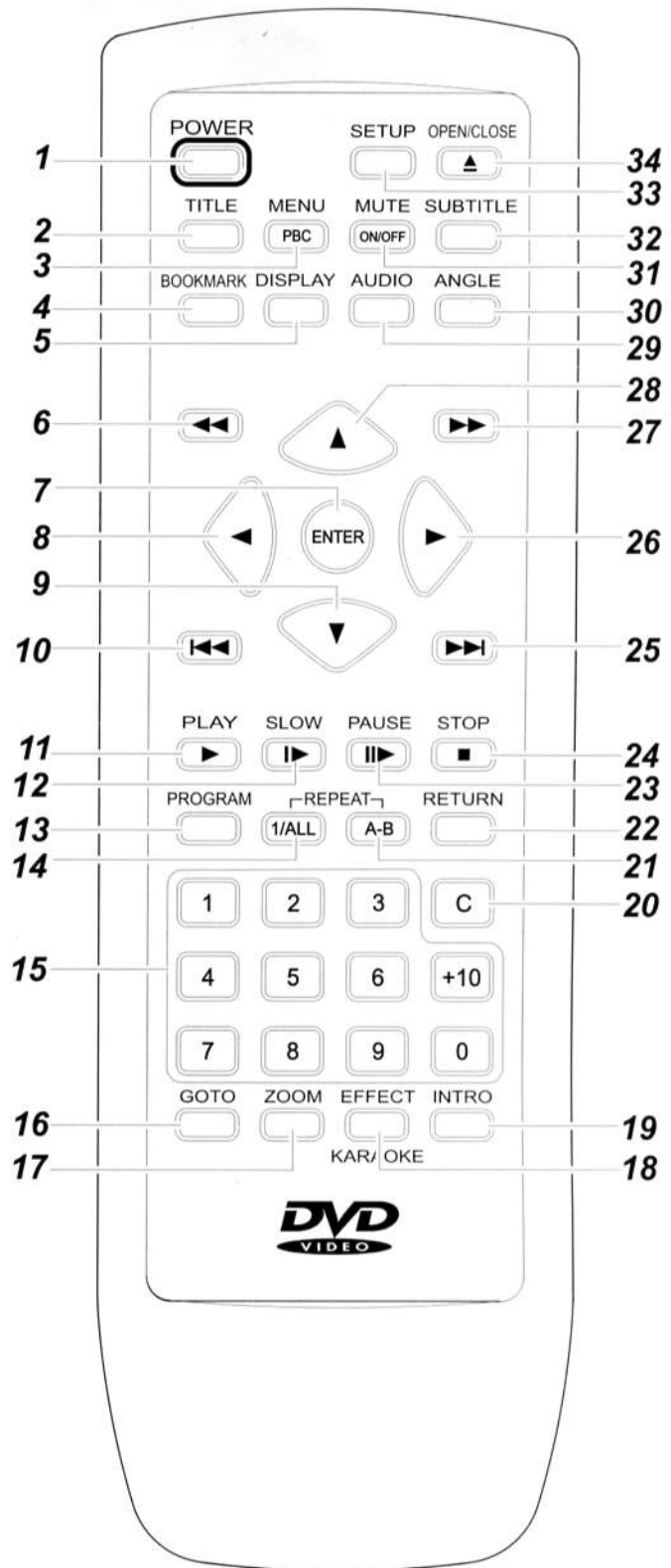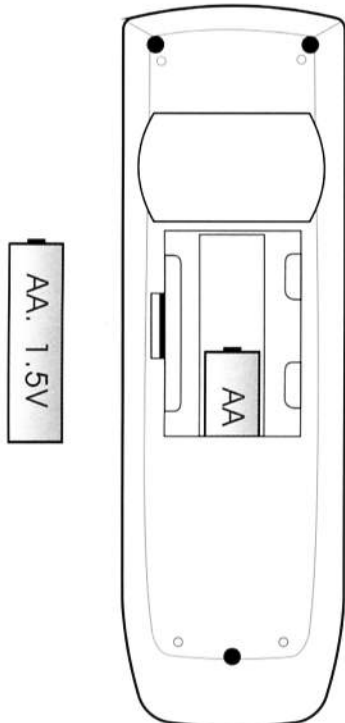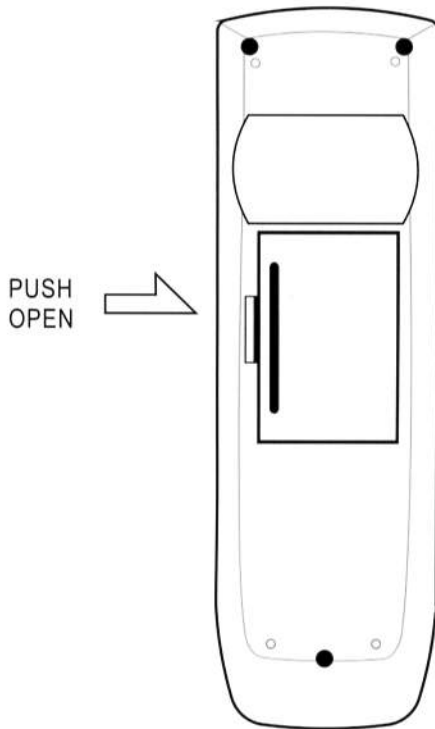
Note:

When changing batteries, please do not use old and new batteries or batteries of different brands simultaneously.

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OPERATION

Operation of Remote Control

1. **POWER**
Switch the device on/off

2. **TITLE**
To enter the video title, please refer to page 15 for details

3. **MENU "PBC"**
To enter the menu of DVD discs or to select PBC function for VCD discs, please refer to page 16 for details

4. **BOOKMARK**
To store specific portions of the disc in memory and play them immediately whenever you want without the need to search, please refer to page 14 for details

5. **DISPLAY**
Screen display for indicating the playing modes

6. **Fast Backward Search ◄◄**
Fast backward search while playing (2x, 4x, 8x)

7. **ENTER**
Executes the selected menu instructions

8. **Direction Key ◄**
Moves towards the left to select menu items

9. **Direction Key ▼**
Moves downward to select menu items

10. **Skip Previous I◄◄**
Skips to the previous movie section while playing

11. **PLAY ►**
Press this button to start the playback

12. **SLOW I►**
Slow movie playback (1/2x, 1/4x, 1/8x)

13. **PROGRAM**
Used to select the sound tracks and their sequence of play, please refer to page 17 for details

14. **REPEAT "1/ALL "**
Repeats the current title or all titles, please refer to page 13 for details.

15. **Number Keys (0~9, +10)**
Used for direct selection of numbered item in menu or number input for the function "GOTO"

16. **GOTO**
Used for the direct selection of TITLE, CHAPTER or TIME for intended play, please refer to page 15 for details

17. **ZOOM**
Zooms in the motion picture, please refer to page 13 for details

18. **EFFECT**
To setup the sound effect, please refer to page 14 for details

19. **INTRO (only VCD)**
To display the first frame of each chapter in STOP mode, please refer to page 13 for details

20. **"C"**
Used to cancel programmed titles or to clear the number input

21. **REPEAT "A-B"**
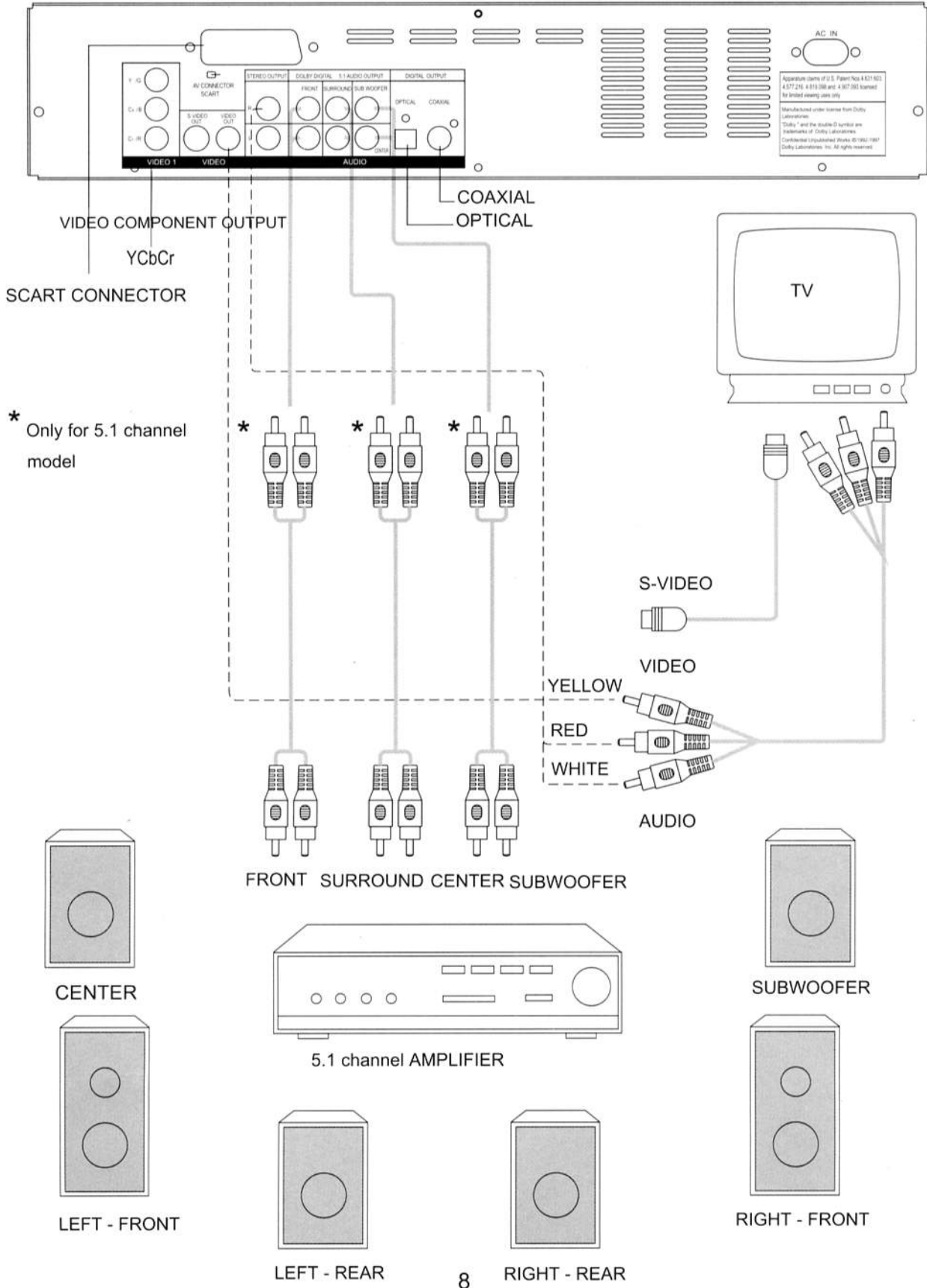Repeats the sequence stipulated by two selected playback points. Please refer to page 13 for details.

22. **RETURN**
Returns to the previous menu

23. **PAUSE II►**
Able to still a particular picture frame. When the frame is stationary, pressing again the button will shift to the next frame for step action.

24. **STOP ■**
To stop the play mode

25. **Skip Next ►►I**
Skips to the next movie section while playing

26. **Direction Key ►**
Moves towards the right to select menu items

27. **Fast Forward Search ►►**
Fast forward search while playing (2x, 4x, 8x)

28. **Direction Key ▲**
Moves upward to select menu items

29. **AUDIO**
Interchanges the sound reproduced depending on the disc content. Please refer to page 16 for details.

30. **ANGLE**
Changes the view angle depending on the disc content, please refer to page 15 for details.

31. **MUTE "ON/OFF"**
To mute the Audio output

32. **SUBTITLE**
Indicates the current subtitle mode, please refer to page 15 for details

33. **SETUP**
Enters the device's setup menu screen to setup according to preference (in Stop-Mode), please refer to page 10-12 for details.

34. **OPEN/CLOSE ▲**
Opens or closes the disc tray

ELECTRICAL CONNECTIONS

Connection of Video and Audio Output Terminals

■ The device has four types of Video output terminals, the S-VIDEO, the CVBS VIDEO output, RGB and YCbCr, which can be connected to devices such as television, video recoder, projector etc.

■ The Audio output terminal includes the digital output and stereo 2 channel or DOLBY 5.1 channel output, which can be connected to the video recorder, television, Audio amplifier and A/V systems etc.

COAXIAL
OPTICAL

VIDEO COMPONENT OUTPUT

YCbCr

SCART CONNECTOR

TV

*
  Only for 5.1 channel
  model

S-VIDEO

VIDEO

YELLOW
RED
WHITE

AUDIO

FRONT   SURROUND CENTER SUBWOOFER

CENTER

5.1 channel AMPLIFIER

SUBWOOFER

LEFT - FRONT

RIGHT - FRONT

LEFT - REAR   8   RIGHT - REAR

ELECTRICAL CONNECTIONS

NOTE:

- If this device is placed next to a receiver or tuner that is receiving AM/FM broadcast, they may interfere with each other. If such as a situation occurs, please place the receiver or tuner away from the device.
- The visual and sound surrounding system connecting method introduced here is for practical use. For other connecting methods, please refer to the instructions of the amplifier purchased.
- If your TV has a SCART socket, you can optionally connect your device with the TV over the SCART socket. The advantage is here an optimal picture quality. In this case, please use a completely connected SCART cable, which is also included in your accessory. In order to achieve an optimal picture quality, please set the video output in the setup menu to RGB. It is required that your TV can put to use the RGB signal. If the DVD-Player is connected with the TV over the SCART cable, the TV automatically switches to the DVD mode when you turn on the Player.

VIEWING & LISTENING

- Switch on the TV, then switch the "TV/VIDEO" mode to "VIDEO" mode. This player can play the formats DVD, VCD, SVCD, CD-R/RW, MP3 and DTS discs.
- If it is connected to an AUDIO system, the amplifier has to be switched on. Please set the input on "CD" or "AUX".

1. Switch on the power

- Press the "POWER " switch to activate the power of the device.
- When the display panel indicates "LOAD", the disc is reading.

2. Insert the disc

- Press the "OPEN/CLOSE ▲ " button to open the tray. The TV screen and the display panel will indicate "OPEN".
- Insert the disc in the centre of the tray.
- Press the "OPEN/CLOSE ▲ " button again, after closing the tray, there will be displayed "CLOSE" on the TV screen and on the display panel.
- If the disc supports the "FIRST PLAY" function, the title of the disc will be played immediately.

3. Start playing

- Pressing the "PLAY ► " button will start playing:
  - If the disc inserted is a DVD disc, the title menu can be selected for playing or various special playing functions can be selected depending on the content of the disc.
  - If the disc inserted is a VCD disc with PBC function, the menu will appear on the screen and the operation can be done according to the instructions on the menu or the "MENU" button can be pressed again to remove the PBC function and to play directly.
  - If the VCD disc does not have PBC function or if the disc inserted is an ordinary music CD, the entire disc will be played directly.

4. Stop playing

- Pressing the "STOP ■ " button will immediately stop playing:
  - On the display will apear "STOP".
  - Press the "PLAY ► " button again to start playing.
  - Press the "STOP" button twice to stop playing.

5. Remove the disc

- Press the "OPEN/CLOSE ▲ " button. The screen will display "OPEN", remove the disc. Pressing again the "OPEN/CLOSE" button will display "NO DISC" on the screen.

6. Switch off the power

- After pressing the "POWER" button, the tray will close. When the displaying device indicates "OFF", the power will be switched off after a few seconds.

SETUP

Press the "SETUP" button on the remote control in the "STOP" mode.

The original setting has six setting items:
1. Languages menu: Set the language
2. Video menu: Set the output format of the video menu
3. Audio menu: Set the output format of the audio
4. Rating Level: Setup a password to restrict children from watching rated films
5. Other menu: Set the other fonctions
6. Exit: Exit from the setup menu

The control of the O.S.D. menu may be effected by pressing the direction keys ▲ ,▼ , ► ,◄ and the keys "ENTER" and "RETURN".

1. Languages Menu

- **O.S.D.:** Setup the language for screen display. Move the highlight bar, press then enter and use the keys ▲ and ▼ to select the language required, then press "ENTER" to finalize your selection, "RETURN" to skip or "SETUP" to exit.

- **Audio:** Setup the type of language played in the disc. Use the keys ▲ and ▼ on the screen. If the screen did not display the type of Audio language needed, please select "OTHERS" and key in the code of other country's language (according to the disc content).

- **Subtitle:** Setup the language type for subtitle played in the disc. Use the keys ▲ and ▼ to select the language type of disc subtitle displayed on the screen. If the screen did not display the language type of disc subtitle needed, please select "OTHERS" and key in the code of other country's language (according to the disc content).

- **Disc:** Setup the language type for the menu of the disc. Use the keys ▲ and ▼ to select the type of menu language displayed on the screen. If the screen did not display the type of menu language needed, please select "OTHERS" and key in the code of other country's language. (According to the disc content).
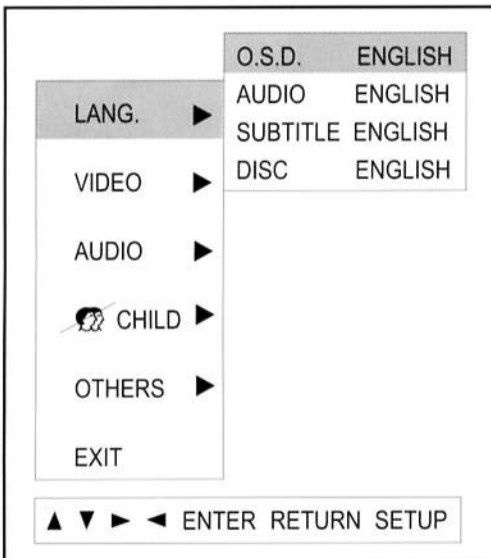
2. Video Menu

- **Setup the TV System:**
  - For selecting and setup the TV's incoming signal to be of:
  NTSC: Television norm in USA and Japan (from 525 lines only 480 lines will be transferred with a picture changing frequency of 60 half pictures per second).

PAL: Television norm in Germany and other European countries (from 625 lines only 576 lines will be transferred with a picture changing frequency of 50 half pictures per second).
  - After reset the TV system, the screen will vibrate to make sure the re-setup.
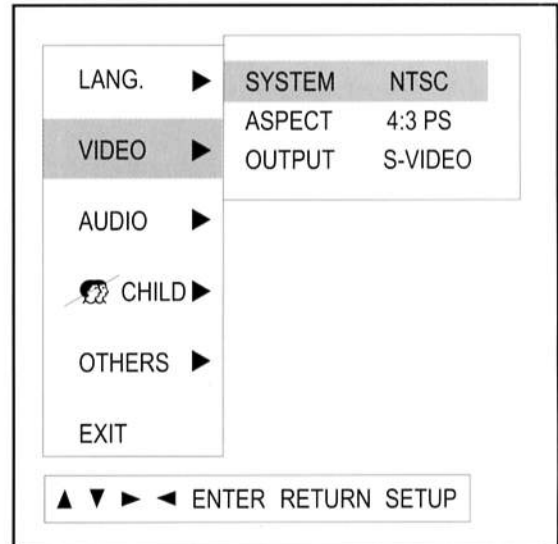
- **Aspect:**
  - There are three types of mode setups for TV screen:
  4:3 LB (LETTERBOX) : Transmission of a wide-screen film with bars on top and on bottom.
  4:3 PS (PAN-SCAN): Full-page picture transmission of a wide-screen film on video by moving the sector for the 4:3 screen, when the focus of the happening shifts.
  16:9 WS (WIDE-SCREEN): Transmission of a wide-screen film on video with black bars on top and on bottom.
  - Able to select the most suitable TV screen ratio based on the disc content and the type of television.
  - Use the keys ▲ and ▼ to select the TV screen ratio.

10
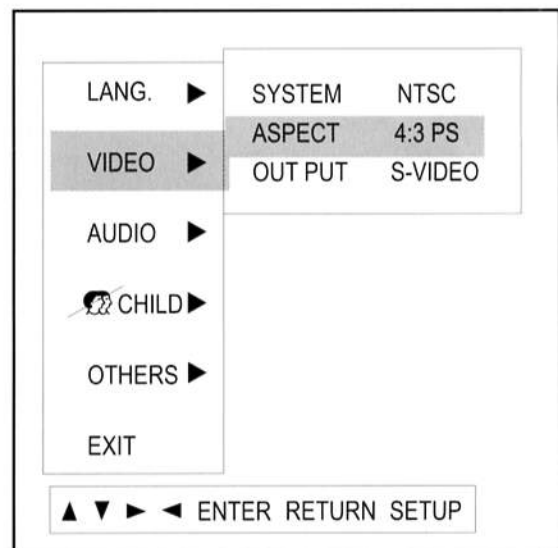
SETUP

- **Video Output:**
  - There are three types of mode setups for the Video Output:
  - S-Video: Picture signal, which is splintered according to colour and brightness. This signal transfer enables a higher sharpness and more low-noise picture compared to composite picture information, which will only be sent over one wire.
  - RGB: Electrical transmission possibility for video pictures, i.e. It is a picture signal, which is splintered according to the primary colours of the TV (red, green and blue).
  - YCbCr: Transmission for video pictures with three wires. The colour signals are transferred with a high frequency range. Enables better colour and sharpness than RGB.

```
┌─────────────────────────────────────────┐
│                                          │
│  LANG.    ►   SYSTEM    NTSC             │
│               ASPECT    4:3 PS           │
│  VIDEO    ►   OUT PUT   S-VIDEO          │
│                                          │
│  AUDIO    ►                              │
│                                          │
│  ☹ CHILD ►                               │
│                                          │
│  OTHERS  ►                               │
│                                          │
│  EXIT                                    │
│                                          │
│  ┌────────────────────────────────────┐ │
│  │ ▲ ▼ ► ◄ ENTER RETURN SETUP         │ │
│  └────────────────────────────────────┘ │
└─────────────────────────────────────────┘
```
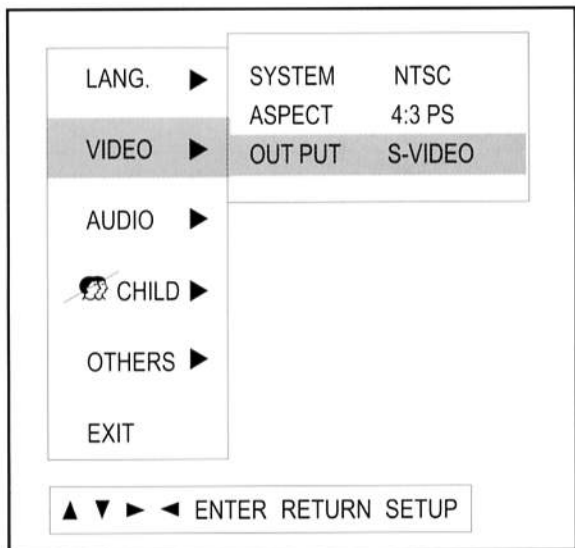
3. Audio Menu

The Audio setup allows the user to set audio preferences according to the playback conditions.

- **Analog:** Use the keys ▲ and ▼ to select "ANALOG", then press "ENTER". Select either 2 channel or 5.1 channel. Press "ENTER" to finalize your selection.

```
┌─────────────────────────────────────────┐
│                                          │
│               ANALOG    5.1 CH           │
│  LANG.    ►   DIGITAL   DOLBY/DTS        │
│               D.R.C.    ON               │
│  VIDEO    ►   BASS      OFF              │
│                                          │
│  AUDIO    ►                              │
│                                          │
│  ☹CHILD ►                                │
│                                          │
│  OTHERS  ►                               │
│                                          │
│  EXIT                                    │
│                                          │
│  ┌────────────────────────────────────┐ │
│  │ ▲ ▼ ◄ ► ENTER RETURN SETUP         │ │
│  └────────────────────────────────────┘ │
└─────────────────────────────────────────┘
```

- **Digital:**
  - There are two mode types for digital output setup:
  - Use the keys ▲ and ▼ to select the digital output:
  - DOLBY/DTS: Digital Coding of one to six channels (5 plus 1) in a bitstream (Dolby Digital). If you would like to enjoy the effect of DVD 5.1, please setup the effect to DOLBY/DTS.
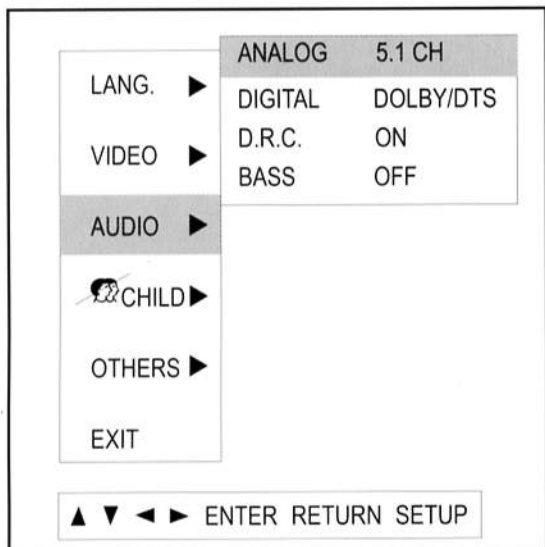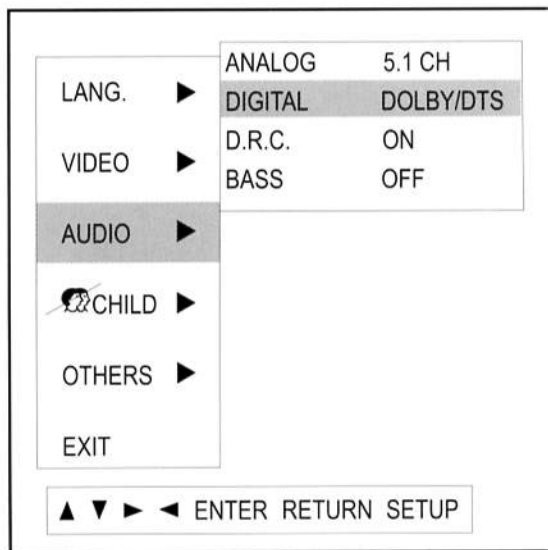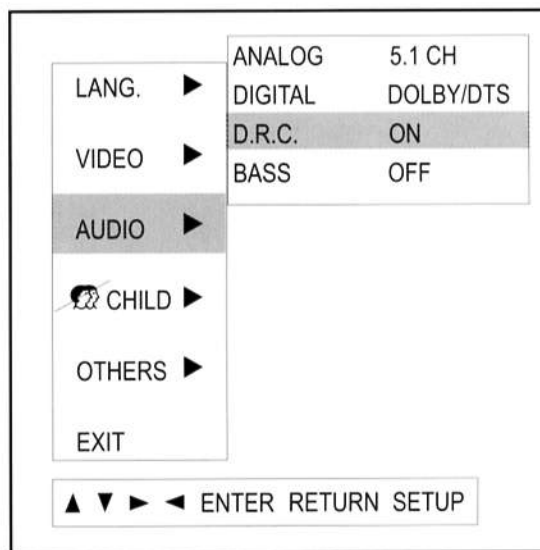 - LPCM: Linear PCM; description of the PCM sound of DVD's, corresponds to the CD system, but with a higher reading rate (48 kHz, 96 kHz also possible). LPCM is uncompressed data, so non of the stream information is lost. However, LPCM output can only support 2 channel output.
  - If you would like to enjoy the effect of DVD 5.1, please setup the effect to "DOLBY/DTS".

```
┌─────────────────────────────────────────┐
│                                          │
│               ANALOG    5.1 CH           │
│  LANG.    ►   DIGITAL   DOLBY/DTS        │
│               D.R.C.    ON               │
│  VIDEO    ►   BASS      OFF              │
│                                          │
│  AUDIO    ►                              │
│                                          │
│  ☹CHILD ►                                │
│                                          │
│  OTHERS  ►                               │
│                                          │
│  EXIT                                    │
│                                          │
│  ┌────────────────────────────────────┐ │
│  │ ▲ ▼ ► ◄ ENTER RETURN SETUP         │ │
│  └────────────────────────────────────┘ │
└─────────────────────────────────────────┘
```

- **D.R.C.:**
  - Press the keys ▲ and ▼ to switch on or off the Dynamic Range Control.
  - D.R.C. produces a clear sound with the volume turned down.

```
┌─────────────────────────────────────────┐
│                                          │
│               ANALOG    5.1 CH           │
│  LANG.    ►   DIGITAL   DOLBY/DTS        │
│               D.R.C.    ON               │
│  VIDEO    ►   BASS      OFF              │
│                                          │
│  AUDIO    ►                              │
│                                          │
│  ☹ CHILD ►                               │
│                                          │
│  OTHERS  ►                               │
│                                          │
│  EXIT                                    │
│                                          │
│  ┌────────────────────────────────────┐ │
│  │ ▲ ▼ ► ◄ ENTER RETURN SETUP         │ │
│  └────────────────────────────────────┘ │
└─────────────────────────────────────────┘
```
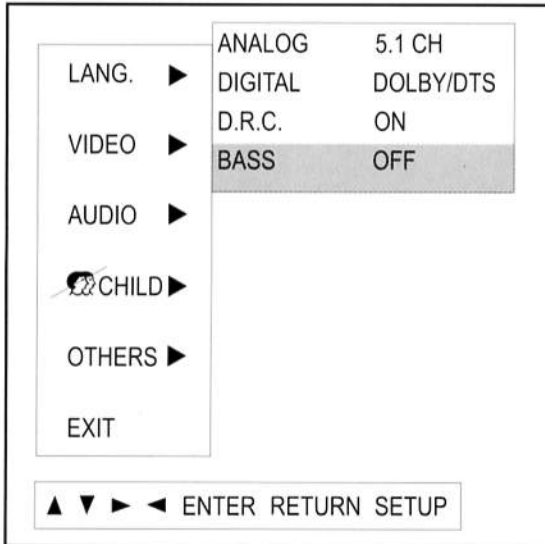
SETUP

- **BASS:**
  The bass menu allows the user to select the size of the speakers. Use the buttons ▲ and ▼ to select "BASS", then press enter. Then you can select either "LARGE", "SMALL" or "OFF". Press enter to finalize your selection.
  LARGE: Normally select this option. If there is no subwoofer/speaker, please setup the bass to LARGE.
  SMALL: When the sound cracks or the effect of the surround is difficult to hear, select this option. This activates the Dolby Digital bass redirection circuitry and outputs the bass frequencies of the speaker from subwoofers.
  OFF: Select this option for audio output without bass.

```
┌────────────────────────────────────────┐
│   ┌────────────┬──────────────────────┐ │
│   │ LANG.  ►   │ ANALOG    5.1 CH     │ │
│   │            │ DIGITAL   DOLBY/DTS  │ │
│   │ VIDEO  ►   │ D.R.C.    ON         │ │
│   │            │ BASS      OFF        │ │
│   │ AUDIO  ►   └──────────────────────┘ │
│   │                                     │
│   │ 🐒CHILD ►                           │
│   │                                     │
│   │ OTHERS ►                            │
│   │                                     │
│   │ EXIT                                │
│   └─────────────────────────────────── │
│                                          │
│   ▲ ▼ ► ◄  ENTER  RETURN  SETUP          │
└────────────────────────────────────────┘
```

4. 🐒 CHILD

- **Rating Level:**
  - Selecting " 🐒 CHILD" allows the setup of a password, which can be used to restrict children from watching certain rated movies, thus protecting them.
  - Setup a password when you use it the very first time. The password can be set in your own way.
  - The display for setting the playback limitation level appears:
  LEVEL 8: for adults
  LEVEL 7
  LEVEL 6
  LEVEL 5
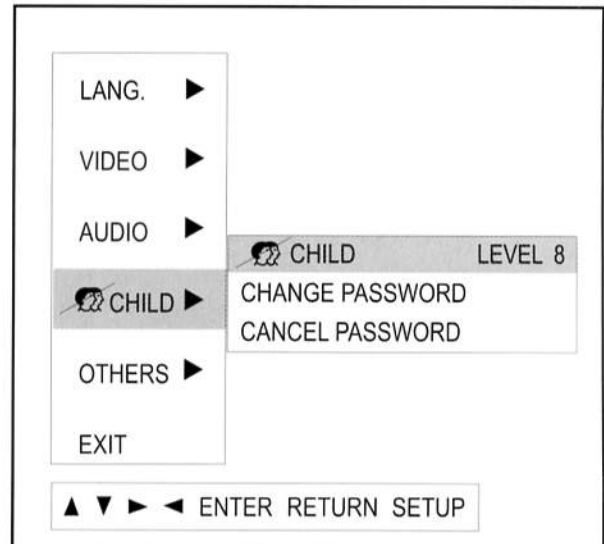 LEVEL 4
  LEVEL 3
  LEVEL 2
  LEVEL 1: for kids
  The lower the value is, the more strict the limitation. Select the level you want using the buttons ▲ and ▼, then press the "ENTER" button.

- **Change the Password:**
  - You may change the password when entering the new password. In order to activate the new password, please leave the setup menu. When pressing again the "SETUP" button, the new password is activated.

- **Cancel the Password:**
  If you would like to cancel the password system, please enter the original password before you cancel it.

```
┌────────────────────────────────────────┐
│   ┌──────────┐                          │
│   │ LANG.  ► │                          │
│   │          │                          │
│   │ VIDEO  ► │                          │
│   │          │                          │
│   │ AUDIO  ► │  ┌──────────────────────┐│
│   │          │  │ 🐒 CHILD    LEVEL 8  ││
│   │ 🐒CHILD ►│  │ CHANGE PASSWORD      ││
│   │          │  │ CANCEL PASSWORD      ││
│   │ OTHERS ► │  └──────────────────────┘│
│   │          │                          │
│   │ EXIT     │                          │
│   └──────────┘                          │
│                                          │
│   ▲ ▼ ► ◄  ENTER  RETURN  SETUP          │
└────────────────────────────────────────┘
```

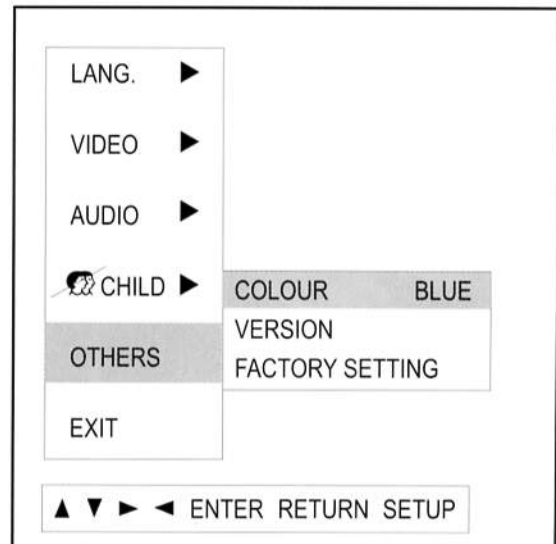## 5. Others

- **Colour:**
  When selecting "COLOUR", you can change the colour of the on screen display by using the keys ▲ and ▼. Change the colour of the background into "BLUE", "VIOLET", "GREEN", "YELLOW" or "ORANGE".

- **Version:**
  Shows the current version of the firmware

- **Factory Setting:**
  To return to the factory setup, the setup password is 3782. Press enter to finalize your selection.

```
┌────────────────────────────────────────┐
│   ┌──────────┐                          │
│   │ LANG.  ► │                          │
│   │          │                          │
│   │ VIDEO  ► │                          │
│   │          │                          │
│   │ AUDIO  ► │                          │
│   │          │  ┌──────────────────────┐│
│   │ 🐒CHILD ►│  │ COLOUR       BLUE    ││
│   │          │  │ VERSION              ││
│   │ OTHERS   │  │ FACTORY SETTING      ││
│   │          │  └──────────────────────┘│
│   │ EXIT     │                          │
│   └──────────┘                          │
│                                          │
│   ▲ ▼ ► ◄  ENTER  RETURN  SETUP          │
└────────────────────────────────────────┘
```

ENGLISH

SPECIAL PLAYING FUNCTIONS

The following special playing functions are for both DVD and VCD.

1. Slow Play ⏸▶

- Press the SLOW ⏸▶ button to slow down the current speed of play.
  - Whenever the SLOW ⏸▶ button is pressed once, the speed of play will slow down by one step, from 1/2->1/4->1/8 until the slowest, and another pressing of the key will return the play to normal speed and so on repeat circulating.
  - Pressing the PLAY ▶ key will immediately return to the normal speed of play.
  - During "Slow Play", the sound will be muted.

2. Still the Picture Frame

- Pressing the PAUSE ⏸▶ key during play will still the frame.
  - To continue watching normal play, press again the "PLAY" key.

3. Viewing Picture Frame Step by Step

- If you need to view the still picture frame step by step, just press again the "PAUSE" key during still picture frame mode.
  - Press the "PAUSE" key to still the picture frame.
  - Pressing again this key will skip the frame one step.
  - Pressing this key another time will skip the frame another step.
- If you keep pressing the "PAUSE" key, you can view the picture frame step by step.
- To return to normal play, just press the "PLAY" key once.

4. Forward/Backward Search

- Press the keys ◀◀ or ▶▶ to begin forward or backward search.
  - Whenever you press ◀◀ or ▶▶ once, the speed will be fastened by one step.
  - To return to normal play, just press the "PLAY" key once.
  - If using this mode to finish playing the disc, the TV screen will display background colour.
  - It is normal to have the feeling of discontinuous picture frame when searching.
  - If backward search is effected till the introduction portion, it will immediately return to normal speed of play.
  - If forward search is effected till the ending portion, it will immediately return to normal speed of play in the next track.
  - While playing the DVD or VCD disc, whenever you press the ◀◀ key once, it will fast play backward 2 times, 4 times, 8 times and so on.
  - While playing the DVD or VCD disc, whenever you press the ▶▶ key once, it will fast play forward 2 times, 4 times, 8 times and so on.
  - When playing the CD disc, the fast backward and forward play can only reach 2 times.

5. REPEAT "1/ALL"

- The key "REPEAT 1/ALL" activates the repeat function. Pressing the "REPEAT 1/ALL" ke once during play will display ⊙CHAPT (for DVD) or ⊙TRACK (for VCD or CD) on the screen. When the playback has been finished, it will return back to the starting position of CHAPTER/TRACK and repeat play.Pressing the "REPEAT 1/ALL" key twice during play will display ⊙TITLE (for DVD) or ⊙DISC (for VCD or CD) on the screen and will repeat play TITLE (for DVD) or the entire disc (for VCD, CD).
- Pressing the "REPEAT 1/ALL" key three times during play will display ⊙off on the screen and will cancel repeat play.
- While playing a DVD, pressing the "REPEAT 1/ALL" key three times, the screen will display ⊙DISC and repeat the whole disc. If pressing the "REPEAT 1/ALL" key four times, the repeat play will be cancelled. (The TITLE, CHAPTER or TRACK of the repeat played disc will be different.)

5. REPEAT "A-B"

- Pressing the "REPEAT A-B" key once during play will setup the starting point of the intended repeat play (point A). At this time, the TV screen / displaying device will indicate ⊙A- .
- Press the "REPEAT A-B" key again to setup the ending point (point B). The TV screen will indicate ⊙AB .
- To cancel this motion, press the "A-B" key again.
- Note: If the disc is scratched, it may cause some problems when reading the disc so that the function may not be effected. If this situation happened, just press the power key to restart the player.

6. ZOOM

- This button is used to view a scene close-up during playback of the disc.
- Press the "ZOOM" key to zoom in the motion picture. It will be shown a small window on the left top hand side of the screen. Now you can move the picture by pressing the buttons ◀ , ▶ , ▲ and ▼.
- Press the "ZOOM" key twice in order to return to the normal

7. INTRO (VCD)

- When playing a VCD title, pressing the "INTRO" key will play 5 seconds of the motion picture of every track or section.
- Press the number key to select the CHAPTER, then start playing.
- If you press the "INTRO" key, this CHAPTER will show the section screen condition.
- Press the STOP ■ key again to return to the LOGO screen.
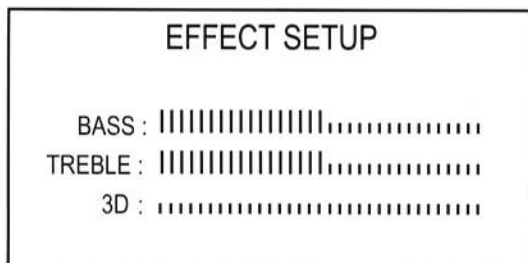
13

SPECIAL PLAYING FUNCTIONS

8. BOOKMARK

- While playing a DVD, VCD or CD disc, press the "BOOKMARK" key, the screen will display ⊳ . If you press the "ENTER" key, the screen will display ⊳₁.... , then re-press "ENTER" . It will automatically record the second memory and it will also show ⊳₁₂... on the screen.
- If you would like to play the BOOKMARK Memory, just press the BOOKMARK key on the certain section. The screen will display ⊳₁₂... , then select the section by pressing the keys ◄ and ► , then press the PLAY ► button.
- It may be recorded 5 memories, but it cannot be kept the memory if you change the disc.

```
┌──────────────────────────────────────────┐
│  ┌─────────┐                               │
│  │ ⊳.....  │                               │
│  └─────────┘                               │
│                                            │
│                                            │
│                                            │
│                                            │
│                                            │
│                                            │
│                                            │
└──────────────────────────────────────────┘
```

9. EFFECT

- When pressing the "EFFECT" key once, use the keys ◄ and ► to adjust the sound effect volume.

```
┌──────────────────────────────────────────┐
│                                            │
│            EFFECT SETUP                    │
│                                            │
│                                            │
│   BASS : IIIIIIIIIIIIIII,,,,,,,,,,,,,,,,,  │
│ TREBLE : IIIIIIIIIIIIIII,,,,,,,,,,,,,,,,,  │
│     3D : ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, │
│                                            │
└──────────────────────────────────────────┘
```

14

SPECIAL FEATURES FOR DVD

1. TITLE & MENU KEYS

- One DVD disc could be designed to contain many units which will form the TITLE and MENU. The user could operate according to the instructions in the disc content.
- Pressing the "TITLE" or "MENU" key (depending on the disc's Design) will display the menu.
- According to the menu's content, use the direction keys ▲ B,▼ ◄ and ► or the number keys to select, then press "ENTER" to execute it.

2. Multi-Angle Playback

- If the DVD disc that is currently playing has multi-angle unit, when it researches the multi-angle unit, the panel displaying device will display "ANGLE".

- Before the angle number disappears, you can select one of the Angle to play (the number of angle depends on the content of disc), selection method is by pressing the "ANGLE" key on the remote control. Whenever the "ANGLE" key is pressed once, the angle number will increase by one digit. After selection, it is not necessary to press "ENTER". The screen will interchange to the selected angle after 1~2 seconds.

3. GOTO

- Under the GOTO mode, when the TITLE, CHAPTER or TIME of the intended play is keyed in, the movie will follow the order to start playing.

- **GOTO Function of DVD**
  If the disc that is currently playing is a DVD disc, after pressing "GOTO" once, on the top of the screen will be displayed a TITLE, CHAPTER or TIME field. Press the direction keys ▲ , ▼ , ◄ , ► to select the TITLE, CHAPTER or TIME field. Then press the direction keys ▲ ,▼ to key in the number of the movie you intended to watch. After pressing "ENTER", the selected TITLE will start playing. Some DVD's don't support this function because of their orignial design.
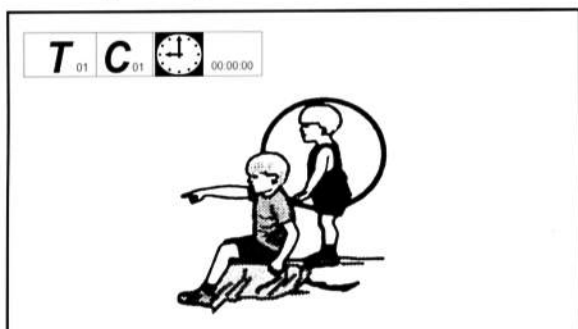

- **GOTO Function of VCD**
  If the disc that is currently playing is a VCD disc, after pressing "GOTO" once, on the top of the screen will be displayed a TRACK and TIME field. Press the direction keys ▲ ,▼ ,◄ ,► to select the TRACK or TIME field. Then press the direction keys ▲ ,▼ to key in the track number you intended to watch. After pressing "ENTER", the selected track will start playing. If the PBC function is on, the GOTO function won't be effected.
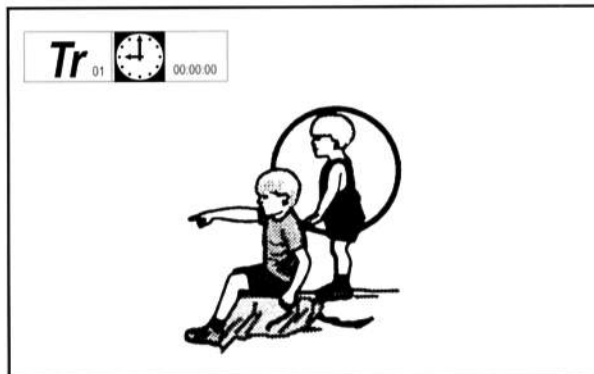

4. Changing of Subtitle while Playing

- If the currently playing DVD disc provides more than two types of subtitle languages, then during the playing, you may change the subtitle, or choose to display or conceal the subtitle.
- Whenever the "SUBTITLE" key is pressed once, the subtitle number will increase by one and the subtitle display will change accordingly, thus the number of subtitles that could be changed depends on the content of the disc. If the disc provides 8 types of subtitle selection, when the subtitle number researches 8, another pressing of the "SUBTITLE" key will return to the number of 1, and so on.
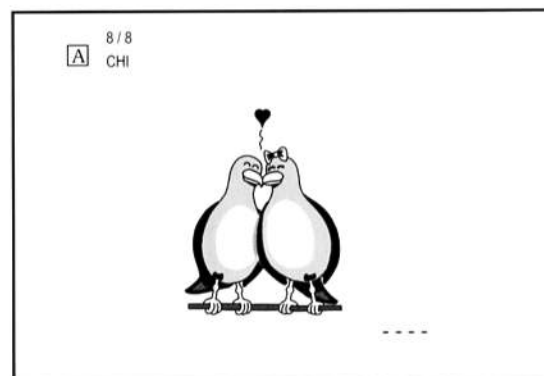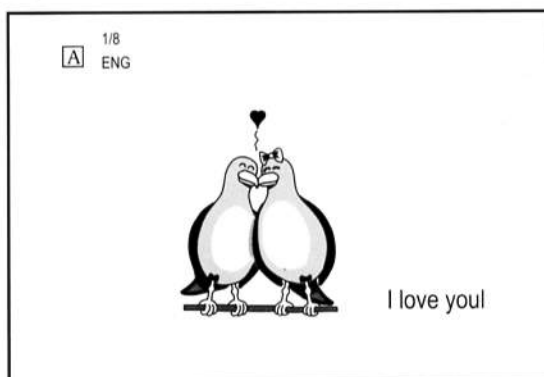
SPECIAL FEATURES FOR DVD

5. Changing the Language

- You can change to a language you prefer.
- Pressing the "AUDIO" key will effect the changing of the language. The information for the selected language will appear on the screen.
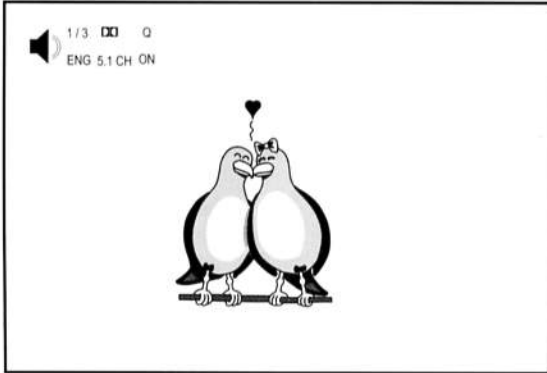
- The selection of the voice depends on the design of the disc. If the disc has three choices, pressing each on time will change to the next selection and so on back to the normal as a cycle.

SPECIAL FEATURES FOR VCD

1. PBC Key

- This is the interchanging key for PBC function when playing a VCD. When it is changed to PBC, the screen will display "PBC ON". When it is interchanged to normal mode, the screen will display "PBC OFF".
- Only Video-CDs (MPEG I Vers. 2.0) with Playback Control can use this playing function. And due to the differences in the disc design, the operation method may be different. Please refer to the instructions in each disc.

2. RETURN Key

- When the PBC function is activated, pressing the "RETURN" key will skip back to the previous level of the menu.

3. PREVIOUS/NEXT (|◀◀ , ▶▶|)

- When the PBC function is activated and the same level of the menu has two or more pages of items for selection, pressing |◀◀ , ▶▶| can view other pages or screens of the menu.
- When the PBC function is off, this key becomes "Skip Selection".

4. Number Keys (0~9, +10)

- When the PBC function is on, pressing the number keys will execute the item intended for execution.
- When the PBC function is off, the number keys will display the selected TRACK.
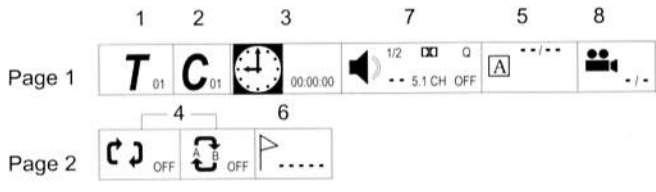
ON SCREEN DISPLAY AND PROGRAMMING

1. DISPLAY

- When there is a disc in the device, pressing the "DISPLAY" key the first time will indicate the disc information (TITLE, CHAPTER or TIME) on the screen.
- Pressing the "DISPLAY" key the second time will additionally indicate further inormation of the disc.
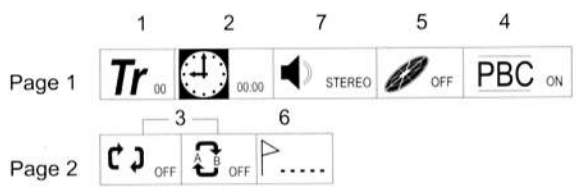- Press the "DISPLAY" key again to turn off the status on the screen.

DVD

1. TITLE	2. CHAPTER	3. TIME
4. REPEAT	5. SUBTITLE	6. BOOKMARK
7. AUDIO STATUS	8. VIEW ANGLE	

Page 1 T_{01} C_{01} 🕐 00:00:00 1/2 5.1 CH OFF [A] --/-- ▤ -/-

Page 2 ↻ OFF 🔁 A/B OFF ▷.....

VCD

1. TRACK	2. TIME	3. REPEAT
4. PBC	5. PROGRAM	6. BOOKMARK
7. AUDIO STATUS		

Page 1 Tr_{00} 🕐 00:00 STEREO OFF PBC ON

Page 2 ↻ OFF 🔁 A/B OFF ▷.....

CD

1. TRACK	2. TIME	3. REPEAT
4. PROGRAM	5. BOOKMARK	

Page 1 Tr_{01} 🕐 00:00 OFF

Page 2 ↻ OFF 🔁 A/B OFF ▷.....

MP3

1. ALBUM	2. TRACK	3. TIME
4. REPEAT	5. PROGRAM	

Page 1 ♪ 001 ▤ 001 🕐 00:00 OFF ↻ OFF 🔁 A/B OFF
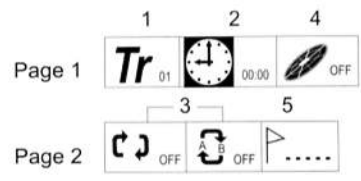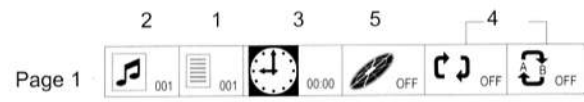
2. PROGRAM

- **While playing a CD, VCD:**
  - Press the "PROGRAM" key to program the sequence of the disc content.
  - The TV screen will appear as shown below:

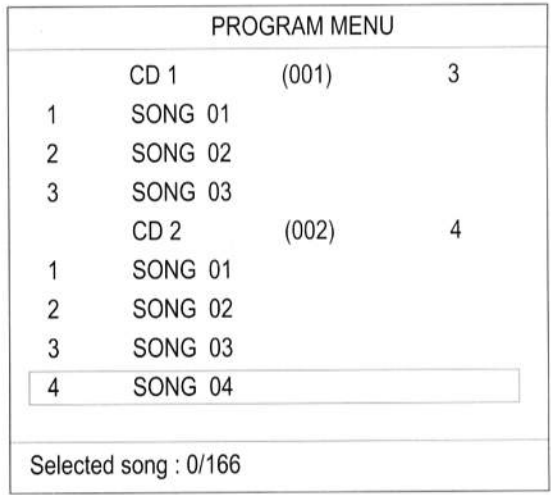| PROGRAM MENU	
DISC	**PROGRAM**
1 2 3 4 5	1 2 3 4 5
6 7 8 9 10	- - - - - - - - - -
11 12 13 14 15	- - - - - - - - - -
16 17 18 19 20	- - - - - - - - - -
21 22 23 24 25	- - - - - - - - - -

CLEAR   ALL CLEAR

RETURN

START
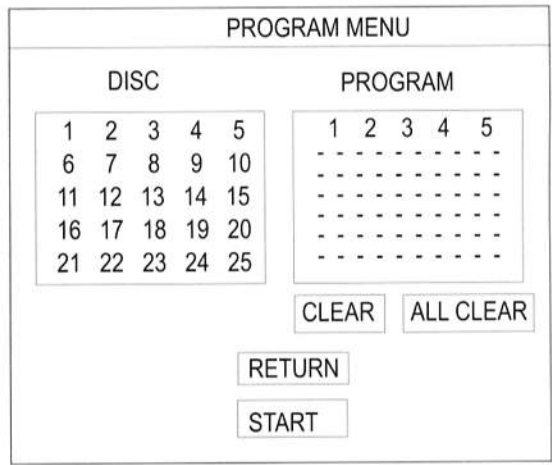
- **While playing a Mp3:**
  - Pressing the "PROGRAM" key, the entire programmed content will be played according to sequence.
  - The TV screen will show as follows:

PROGRAM MENU		
CD 1	(001)	3
1	SONG 01	
2	SONG 02	
3	SONG 03	
CD 2	(002)	4
1	SONG 01	
2	SONG 02	
3	SONG 03	
4	SONG 04	
Selected song : 0/166		

- In accordance to this on screen display, setup the required content in proper order, then press PLAY ► to play according to the setup sequence.
- When the entire programmed content had been played according to sequence, it will stop automatically.

PROBLEM HANDLING

When there is a problem, it does not mean malfunction. Before sending for repair, please examine your device according to the following:

PROBLEM	POSSIBLE REASONS	THINGS TO DO
No Power	- AC cord has been loosened	- Please properly connect the AC cord
Unable to close the disc tray	- The disc is not properly placed	- Please place in the disc again
Unable to play	- The power is not on - No disc is placed in (the screen indicates "No Disc") - The disc is placed on the wrong side (the screen indicates "reading") - Disc coded - Disc too dirty - Disc distorted - The Player has condensation	- Switch on the power - Place in a disc - Place in the disc again with the labeled side facing up - Change the code - Wipe clean the disc surface - Use a new disc - Switch off the power for 1-2 hours
No sound reproduced	- No disc is placed in - Mistake in the audio setup - The speed of play has been changed - The Audio terminal has not been properly connected - Mute condition	- Place in a disc - Setup the correct audio mode - Press the PLAY key to return to normal play - Properly connect the cables - Reset to mute off (refer to the section in the original setup)
*No sound reproduced from the 5.1 channel	- There is a mistake in the audio setup	- Reset the audio mode (refer to the section in the original setup)
*Unable to switch on the microphone	- Disc is not placed in - Under programmed play - Mistake of the Effect setup	- Place in a disc. - Press MIC ON berfore program play - Reset (refer to the section in the original setup)
*Wired microphone unable to produce voice	- The MIC VOL has been completely tuned down - Microphone not properly connected	- Adjust the microphone volume to a suitable volume - Connect the microphone correctly
Subtitle does not appear	- The subtitle setting has been shifted to the "OFF" or "CONCEAL" position.	- Shift the subtitle setting to the "ON" position
Remote control does not work	- Batteries have been used up - The front end of the remote control did not aim at the disc player's remote control sensor - No disc is placed in	- Replace new batteries - Please use the remote control correctly - Place in a disc

Functions marked with "*" are not available on all models.

SPECIFICATIONS/ACCESSORIES

Specifications:

Audio Features	Frequency Response	20 Hz ~ 20 KHz
	Dynamic Range	Above 90 dB
	S/N Ratio	Above 90 dB
	THD	Below 0.04%
	Output Level	2 Vrms
	OPTICAL Output Level	-18 dBm max.
	Coaxial Output Level	1 Vp - p (75 Ω)
Video Features	Signal Type	NTSC / PAL
	Output Level	1 Vp - p (75 Ω)
S-Video	Y Output Level	1 Vp - p (75 Ω)
	C Output Level	1 Vp - p (75 Ω)
General Specifications	AC Input	V AC 110, 220/240,110/230 Switch, 50 / 60 Hz (indicated on the rear panel)
	Power Consumption	27 W
	Weight	5 Kg
	Dimension (W X D X H)	430 (W) x 340 (D) x 85 (H) mm

Accessories:

Accessories	Instruction Guide	x 1
	Remote Control	x 1
	Batteries (R6 AA)	x 2
	CINCH Cable	3 in 1
	Power Cord	x 1
	SCART Cable (for Europe)	x 1

*Designs and specifications are subject to change without notice.

LIST OF LANGUAGES

CODE	LANGUAGE	CODE	LANGUAGE	CODE	LANGUAGE
6565	Afar	7384	Italian	8376	Slovenian
6566	Abkhazian	7387	Hebrew	8377	Samoan
6570	Afrikaans	7465	Japanese	8378	Shona
6577	Amharic	7473	Yiddish	8379	Somali
6582	Arabic	7487	Javanese	8381	Albanian
6583	Assamese	7565	Georgian	8382	Serbian
6588	Aymara	7575	Kazakh	8385	Sundanese
6590	Azerbaijani	7576	Greenlandic	8386	Swedish
6665	Bashkir	7577	Cambodian	8387	Swahili
6669	Byelorussian	7578	Kannada	8465	Tamil
6671	Bulgarian	7579	Korean	8469	Tegulu
6672	Bislama	7583	Kashmiri	8471	Tajik
6678	Bengali	7585	Kurdish	8472	Thai
6679	Tibetan	7589	Kirghiz	8473	Tigrinya
6682	Breton	7665	Latin	8475	Turkmen
6765	Catalan	7678	Lingala	8476	Tagalog
6779	Corsican	7679	Laothian	8479	Tonga
6783	Czech	7684	Lithuanian	8482	Turkish
6789	Welsh	7686	Latvian/Lettish	8484	Tatar
6865	Danish	7771	Malagasy	8487	Twi
6869	German	7773	Maori	8575	Ukrainian
6890	Bhutani	7775	Macedonian	8582	Urdu
6976	Greek	7776	Malayalam	8590	Uzbek
6978	English	7778	Mongolian	8673	Vietnamese
6979	Esperanto	7779	Moldavian	8679	Volapuk
6983	Spanish	7782	Marathi	8779	Wolof
6984	Estonian	7783	Malay	8872	Xhosa
6985	Basque	7784	Maltese	8979	Yoruba
7065	Persian	7789	Burmese	9072	Chinese
7073	Finnish	7865	Nauru	9085	Zulu
7074	Fiji	7869	Nepali		
7079	Faeroese	7876	Dutch		
7082	French	7879	Norwegian		
7089	Frisian	7982	Oriya		
7165	Irish	8065	Punjabi		
7168	Scots/Gaelic	8076	Polish		
7176	Galician	8083	Pashto/Pushto		
7178	Guarani	8084	Portuguese		
7185	Gujarati	8185	Quechua		
7265	Hausa	8277	Rhaeto-Romance		
7273	Hindi	8279	Romanian		
7282	Croatian	8285	Russian		
7285	Hungarian	8365	Kinyarwanda		
7289	Armenian	8368	Sanskrit		
7365	Interlingua	8372	Serbo-Croatian		
7378	Indonesian	8373	Singhalese		
7383	Icelandic	8375	Slovak		

TECHNICAL TERMS

GLOSSARY	DESCRIPTION
AC-3	Digital coding of one to six channels (5 plus 1) in a bitstream. Compare Dolby Digital.
Bit	"Binary Digit". A bit is the smallest information unit in the EDV as well as in digital transmission systems. Bit is the indication for the height of the resolution in the uncompressed PCM size.
Cinch-Audio	Over the Cinch sockets, the Dolby-Digital or MPEG sound will be released from the DVD as analogue two-channel signal - independent from the channel number on the DVD. If a DVD plays with DTS sound, the output will be silent. In this case you must connect a stereo system or an analogue surround amplifier/receiver. Using some DVD-Players, you must activate the Stereo-Cinch output in the setup menu (Option: "Audio output/2-channel-analogue").
Cinch-Video	The DVD-Player sends the Composite or FBAS video signal over the yellow Cinch socket. Either directly to the corresponding socket on the TV or indirectly over an AV receiver. Cinch is the qualitatively worst picture connection and should only be used in Case.
Components Output	Component signals of the DVD-Player are indigestible for customary TV's. Only tube projectors and a few professional monitors have an input for the integration of picture signals (also named YUV). The components output provides the best picture quality.
Digital Output	The Player releases it's sound information bit by bit over the digital output. The way the sound will stream out of the socket must be adjusted in the setup menu. Most important criteria: Which device is connected to the digital socket?
Dolby Digital	A digital surround sound system which is able to transfer up to 5 sound channels plus sub-bass channel (5.1 or 3/2.01). Developed by Dolby. Here, it is laid down, which sound signal will be released from the digital output. "Bitstream" is the right choice, if the Player is connected to a Dolby-Digital decoder. "PCM" shall be entered, if the sound is lead via digital output on a system without AC-3 decoder.
DTS	Digital Theatre Systems. Digital surround sound system, which works with 5.1 channels and corresponds to AC-3 on the first view. But the difference is in the data reduction. The DTS system works with higher data rates, i.e lower data reduction. It transfers about 4 times as much data as the AC-3 or MPEG-2 process and therefore needs appreciable more storage space on the DVD.
DTS (on/off)	On: Only if the Player is connected to an amplifier or receiver with DTS-Decoder. At the moment only some DVD-Players provide a conversion of the DTS multi-channel-sound into a stereo signal.
FBAS A	It is the most popular kind of transmission for colourful video pictures with only one wire. good resolution is basically possible, but it requires a lot of decoding efforts. Better is Y/C, RGB or YUV.
5.1 Output	DVD-Players with digital surround decoder provide this output, the most current AV receiver provide also the corresponding 5.1 input. Here the Player releases the already decoded multi-channel sound from the DVD in an analogue way. But this connection is only useful if the AV amplifier has no digital surround decoder. The sound quality over a digital surround amplifier is mostly better.
KHz	Kilocycle. kHz is the indication for the height of the scanning rate with which an analogue signal (PCM) is interrogated for the following Analogue/Digital transformation.
Letterbox	Transmission of a wide-screen film with bars on top and on bottom.
LPCM	Linear PCM. Description of the PCM sound of DVD's, corresponds to the CD system, but with a higher reading rate (48kHz, 96kHz also possible).
MPEG	Moving Picture Experts Group. Process of data compression for digital video recording, which is used for Video CD's. MPEG-2 offers a considerably improved picture resolution. MPEG-1 and -2 also stand for Audio coding, MPEG-1 with two channels as a maximum, MPEG-2 7.1 as a maximum.
MacroVision	Analogue copy protection procedure protected by license agreement, which interrupts the recording logic of VHS recorders. Unfortunately, it also disturbs some projectors/monitors.
NTSC	National Television System Committee, television norm among others in the USA and Japan (from 525 lines only 480 lines will be transferred with a picture changing frequency of 60 half pictures per second).
PAL	Phase Alternation Line, television norm in Germany and other European countries (from 625 lines only 576 lines will be transferred with a picture changing frequency of 50 half pictures per second).
Pan & Scan	Full-page picture transmission of a wide-screen film on video by moving the sector for the 4:3 screen, when the focus of the happening shifts.

TECHNICAL TERMS

GLOSSARY	DESCRIPTION
Picture Sizes	For the picture we indicate the playback size on the TV or projector (e.g. 4:3 and 16:9) as well as the original (movie) size in which the film was shot (e.g. 1.85:1). TV movies are shot in the usual TV size 4:3 (1.33:1), movie productions mostly in different wide-screen sizes. Both size statements name first of all the breadth and then the height of the picture. In which picture size a movie is on the DVD depends on the broadcast of the original movie picture on the electric memory. In the process the movie picture can be scanned in three different sizes: 16:9, letterbox (4:3) or Pan & Scan. Depending on the original size and the scanning, a different playback size reveals on the TV. If e.g. a wide-screen movie is scanned in letterbox (4:3) size, there will be black shores on the above and on the bottom of the picture line on a 4:3 TV without 16:9 changeover as well as a lower TV resolution. An anamorphic scanning in the side proportion 16:9 is optimal for movie productions. Though black shores on the above and bottom picture line cannot be avoided without loosing picture contents on the right and on the left, if the original sizes are bigger than 1.77:1 so e.g. 1.85:1 or 2.35:1 even on 16:9 TVs. Here counts: the wider the original size the wider the black shores.
PCM	Pulse Code Modulation. Linear data stream, which arises from the scanning of an analogue signal in the same intervals.
ProLogic	Improved Dolby Surround decoder, which offers a centre channel as well as a better channel separation by an electronic analysis of the direction dominance.
RGB	Electrical transmission possibility for video pictures, i.e. it is a picture signal, which is splintered according to the primary colours of the TV (red, green and blue).
Scart Socket/Euro-AV-Output	The Scart socket is the simplest connection between DVD-Player and TV. It transports not only the picture signals, but also the sound signals. All sound variations of the DVD - except for DTS - are passed on to the DVD as analogue two channel signal. In the setup of the most DVD-Players you must not enter anything for the sound format, as the digital output is not used. If the setup offers it, the settings described for the Cinch-Audio output are required. Basically, the picture can be released over the Scart socket in the variations Composite, S-Video/YC or RGB. But not all Players support all variations.
S-VHS Video Output	The DVD-Player sends the S-Video or Y/C signal for the picture via S-VHS video output - the best alternative to RGB from the Scart socket. This variation is mostly used together with Surround and Digital Surround devices, which manage the picture and the sound.
Sound Sizes	For the sound sizes it is different between the playback size (e.g. 2/0 = Stereo) and the kind of decoding (e.g. PCM, DTS, MPEG-1 or -2, Dolby digital, former AC3). The numbers in front of the instructions of the decoding are marking the playback size. The number in front of the line describes the number of the front sound channels, the number behind the oblique the number of the surround channels. Example: 3/1 = 3 front channels and 1 (mono) surround channel (also called Dolby Surround ProLogic). Furthermore, an additional oblique or ".1" with indication of a sub-bass channel can follow. The indication 5.1 is to be equated with 3/2.01. The 5 reveals out of the addition of the front and back adequate separated digital sound channels (3 + 2 = 5). The 0.1 is optional and indicates the discrete subwoofer.
S-Video Signals (Y/C)	It is a picture signal of S-VHS Recorders or DVD-Players, which is splintered according to colour and brightness. This signal transfer enables a higher sharpness and more low-noise picture compared with Composite picture information, which will only be sent over one wire. S-Video pictures have nearly the same picture quality as RGB pictures.
VHS	Video Home System. Widespread norm for video recorders with mediocre picture resolution (under 250 lines). Depending on the recorder there are two record systems for the sound: Longitudinal track with mono-sound and FM slant track with a better stereo sound.
Widescreen	Transmission of a wide-screen film on video with black bars on top and on bottom.