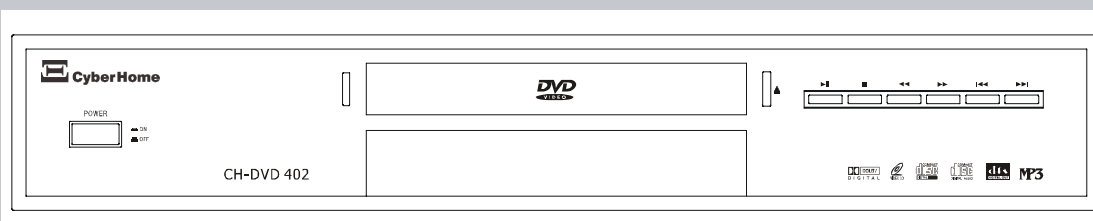




DVD-Player

CH-DVD 402



Manual_____

ENG

Bedienungsanleitung_____

DE

Mode d'emploi_____

FR

Istruzioni per l'uso_____

IT

Manual de instrucciones_____

ES

Handleiding_____

NL



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ACCESSORIES

DVD-Player	x 1
Manual	x 1
Remote Control	x 1
Batteries	x 2
Cinch Cable	3 in 1
Power Cord	x 1
Scart Cable (for Europe)	x 1*

*optional

REGION CODE INFORMATION

This DVD-Player has been constructed and produced in the way that it adheres to "Local Management" information, which are recorded on a Digital Versatile 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". You can find the region code on the back side of the DVD cover.

SPECIFICATIONS

Audio Features	Frequency Response	20 Hz ~ 20 KHz
	Audio Format	96 KHz / 24 bit Audio D/A Converter
	Optical Output Level	(SPDIF) IEC 60958
	Coaxial Output Level	(SPDIF) IEC 60958
Video Features	Video Format	10 bit Video D/A Converter
	Signal Type	NTSC / PAL
	Output Level	1 Vp - p (75 Ohm)
S-Video	Y Output Level	1 Vp - p (75 Ohm)
	C Output Level	1 Vp - p (75 Ohm)
General Specifications	AC Input	AC 230 V, 50 Hz
	Power Consumption	27 W
	Weight	5 Kg
	Dimension (W X H X D)	430 mm x 80 mm x 290 mm

*Designs and specifications are subject to change without notice. All of the company or product names mentioned in this manual are the trademarks or registered trademarks of their respective holders.

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 yourself 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 or heating radiators
- high temperature [over 35° C (95°F)] or high humidity (over 90%)
- excessive dust
- vibration, impact or tilted surfaces, 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.

Do not touch internal parts

- 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 objects 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.

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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.

SAFETY INSTRUCTIONS

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!



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.

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL FOR SERVICING. ONLY OPEN THE DEVICE IF IT IS DISCONNECTED FROM THE POWER SOURCE - UNPLUG THE POWER CORD!



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of not isolated "dangerous voltage" inside 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 no repairs yourself. Refer to qualified personnel for servicing.

**CLASS 1
LASER PRODUCT**

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





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PREPARATION KNOWLEDGE

This device supports the following disc formats:

Suitable discs & their marks	Diameter / Side / Layer	Maximum playing time
	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.
	VCD 12 cm / Single / Single	MPEG I TYPE 74 min. max.
	CD-DA 12 cm / Single / Single	74 min. max.
	CD-DA 8 cm / Single / Single	20 min. max.
	MP3 8 cm / Single / Single 12 cm / Single / Single	MPEG I layer - III 640 min. max.

- DVD and VCD: Audio and Video discs
- CD-DA and MP3: Only Audio discs
- This device conforms to the standards of DVD, VCD (v1.1 and v2.0). You can perform different playback functions depending on the type of discs.
- This device supports also Photo CDs with JPEG files.
- Don't load any exceptional discs in the Player, as this will cause null playback or other problems (also with copy-saved Audio CDs).
- UDF format won't be supported.

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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 (AC 230 V). Please compare the main 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:

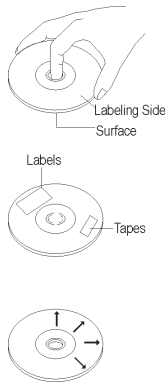
- Please do not place the device on the following locations: easily affected by vibration, with high humidity, with poor ventilation, with direct sunlight, with too high or too low temperature
- The device should be placed on a leveled surface.
- To prevent being affected by electromagnetic fields, please place the device away from television, radio, computer and speaker.

Safety Notice:

Contacting the device's internal structure may result in an 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 condensation. Thus, please keep the device switched off for about 1-2 hours before the playback of any titles.



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 cause 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:

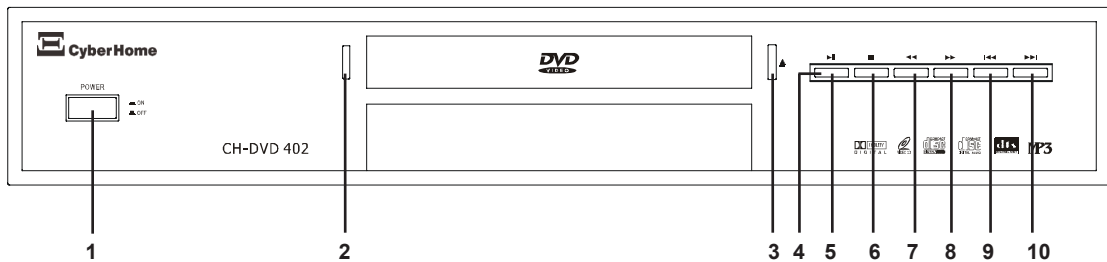
The control panel and the case of the player only require wiping with a soft cloth. Areas with stubborn stains can be cleaned with a soft cloth dipped in a neutral detergent. To prevent damaging the player, never use vaporizing solutions.

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

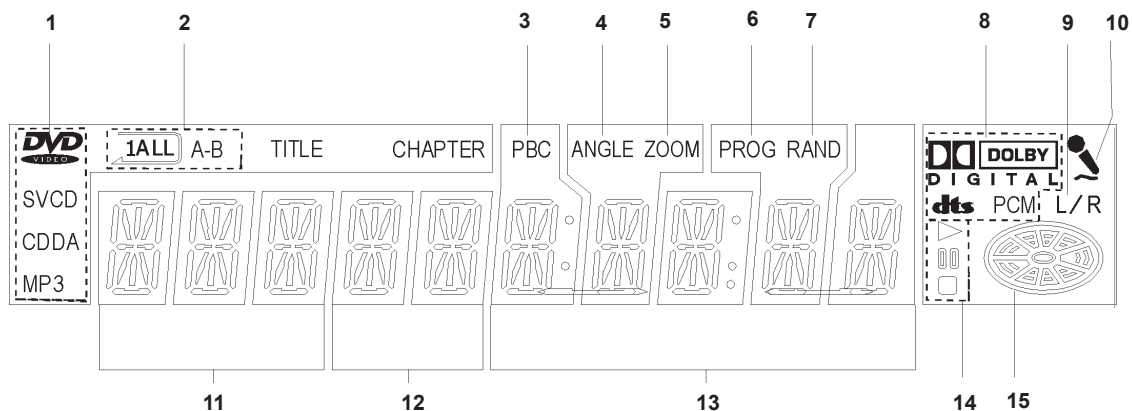


1. **POWER / ON / OFF :** Switches the device on or off.
2. **STANDBY MODE :** If the device is in Standby mode, the LED will light. If the Player is in operation, the LED light will be off.
3. **OPEN / CLOSE :** Opens or closes the disc tray.
4. **PLAY ► :** Loading the disc; starts playing.
5. **PAUSE || :** This is used to pause a disc.
6. **STOP ■ :** Stops the disc playing (HOLD) and enters Stop mode after pressing the button two times (STOP).
7. **FAST BWD SEARCH ◀◀ :** Fast backward search while playing (2x, 4x, 8x, 16x).
8. **FAST FWD SEARCH ▶▶ :** Fast forward search while playing (2x, 4x, 8x, 16x).
9. **SKIP_BWD |◀◀ :** Skips to the previous track on an audio disc or the previous chapter on a DVD.
10. **SKIP_FWD ▶▶| :** Skips to the next track on an audio disc or the next chapter on a DVD.

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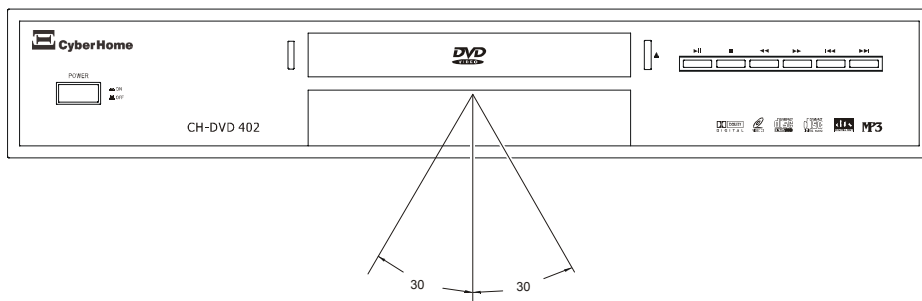
OPERATION

Display



1. Indicates the inserted disc type.
2. Indicates that the repeat play function is activated.
3. Indicates PBC ON (VCD).
4. Indicates the multi visual angles status.
5. Indicates zoom status.
6. Indicates that the program function is activated.
7. Shuffle-Play function.
8. Indicates the playing Audio mode.
9. Indicates status of the front right and front left speakers output.
10. Indicates that the microphone is on or off in Karaoke mode*.
- 11./12. Indicates the title number, the current chapter or track of the disc playing. The display depends on the inserted disc type.
13. Indicates the playback time.
14. Indicates the status of the playback (PLAY/PAUSE/STOP).
15. Playback indicator.

*Only available on some specified models.



Operation of Remote Control

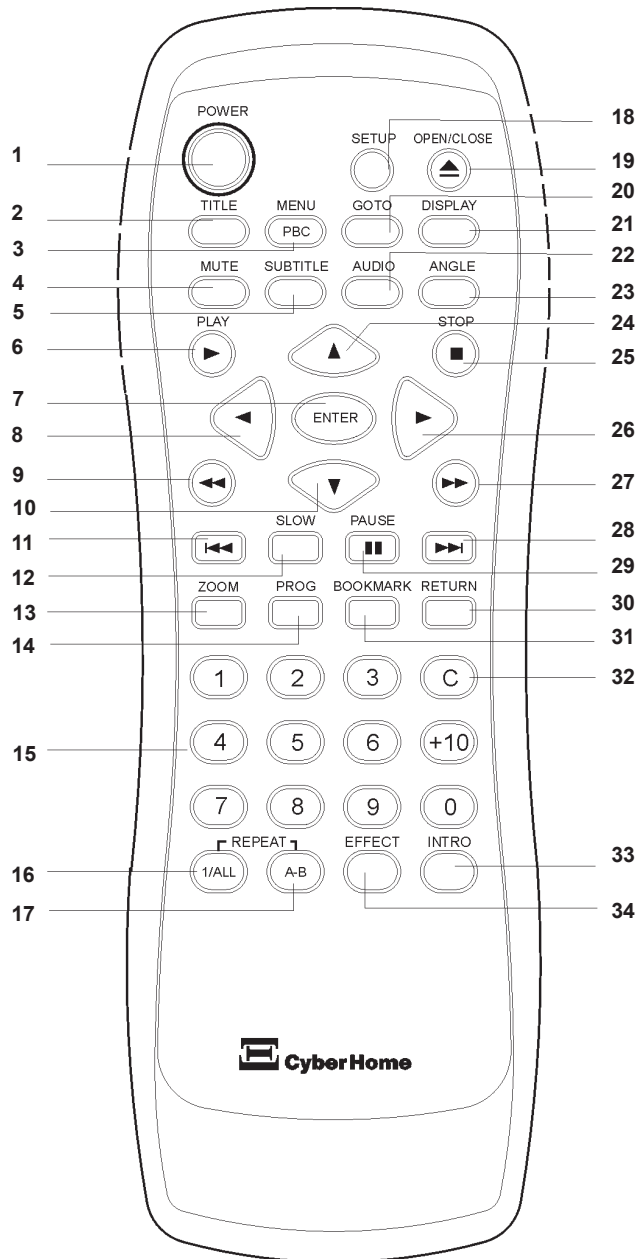
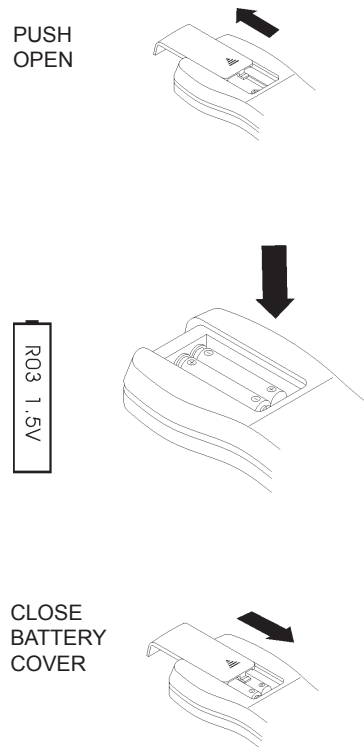
You can use the enclosed wireless remote control to control this device. When using the control, please aim at the device's remote control sensor.



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 batteries (Size AAA, R03, 1.5V). Please note the +, - polarity. **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 | For DVDs, this displays the DVD menu. |
| 3. MENU "PBC" | To enter the menu of DVD discs or to select PBC function for VCD discs. |
| 4. MUTE | To mute the Audio output. |
| 5. SUBTITLE | For DVDs, this can be used to display subtitles and select the language to use. |
| 6. PLAY ► | Press this button to start the playback. |
| 7. ENTER | Executes the selected menu instructions. |
| 8. DIRECTION BUTTON ◀ | Moves towards the left to select menu items. |
| 9. FAST BWD SEARCH ◀◀ | Fast backward search while playing (2/4/8/16x). |
| 10. DIRECTION BUTTON ▼ | Moves downward to select menu items. |
| 11. SKIP_BWD I◀◀ | Skips to the previous track on an audio disc or the previous chapter on a DVD. |
| 12. SLOW | Slow movie playback (1/2x, 1/4x, 1/8x, 1/16x). |
| 13. ZOOM | Zooms in and out the picture (maximum 4x). |
| 14. PROGRAM | This can be used to set up a playlist. |
| 15. NUMBER BUTTONS
(0 to 9, +10) | Used for direct selection of a numbered item in the menu or number input for the function "GOTO". |
| 16. REPEAT "1/ALL" | Repeats the current title or all titles. |
| 17. REPEAT "A-B" | Repeats the sequence stipulated by two selected playback points. |
| 18. SETUP | Enters the device's setup menu screen to setup according to preference (in Stop mode). |
| 19. OPEN / CLOSE ▲ | Opens or closes the disc tray. |
| 20. GOTO | Used for the direct selection of TRACK, TITLE, CHAPTER or TIME for intended play. |
| 21. DISPLAY | Screen display for indicating the disc and time information. |
| 22. AUDIO | Interchanges the audio settings depending on the disc content. |
| 23. ANGLE (only DVDs) | Changes the camera angle depending on the disc content. |
| 24. DIRECTION BUTTON ▲ | Moves upward to select menu items. |
| 25. STOP ■ | Stops the disc playing (HOLD) and enters Stop mode after pressing the button two times (STOP). |
| 26. DIRECTION BUTTON ► | Moves toward the right to select menu items. |
| 27. FAST FWD SEARCH ►► | Fast forward search while playing (2/4/8/16 x). |
| 28. SKIP_FWD ►►I | Skip to the next track on an audio disc or the next chapter on a DVD. |
| 29. PAUSE II | This is used to pause a disc. |
| 30. RETURN | Returns to the previous menu. |
| 31. BOOKMARK | To store specific portions of the disc in memory and play them immediately whenever you want without the need to search. |
| 32. "C" | Used to delete programmed titles or clear the number input. |
| 33. INTRO | To play the first seconds of each title, chapter, title interval and chapter interval (for DVDs) or of each track and disc interval (for Video CDs) or of each track (for CDs). |
| 34. EFFECT | To setup the sound effects. |

ELECTRICAL CONNECTIONS

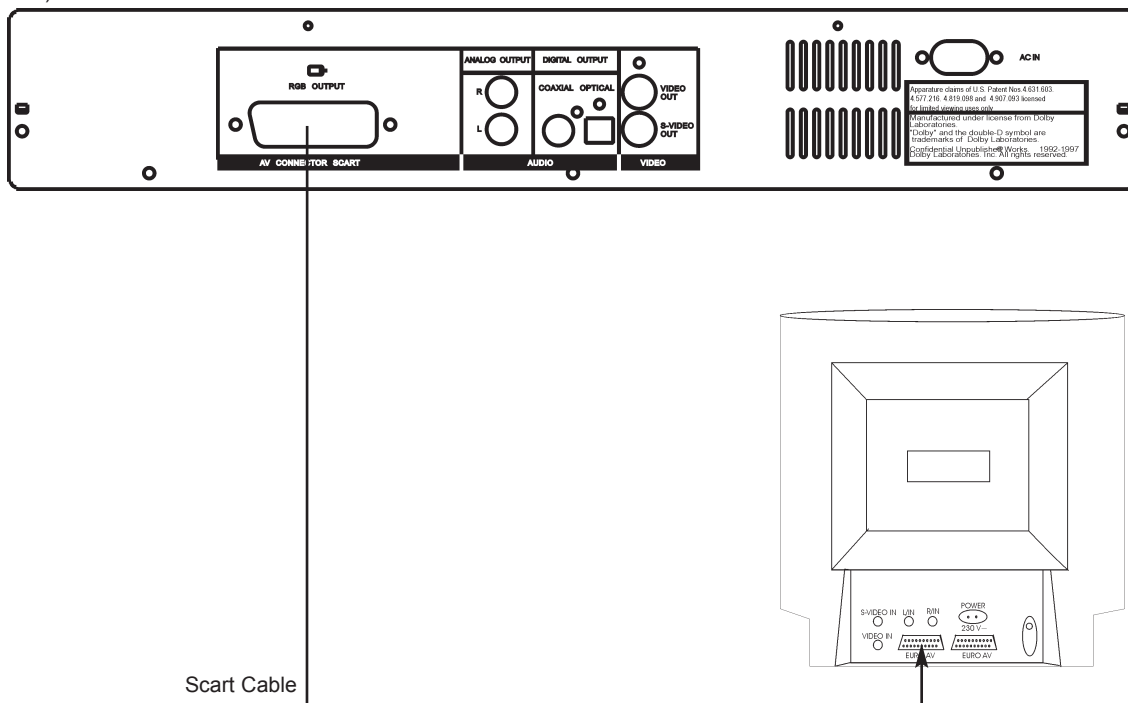
Video and Audio Connection

- The device has three types of Video output terminals, the S-VIDEO, the CVBS VIDEO output and RGB (over Scart), which can be connected to devices such as television, projector etc.
- The Audio output has two types of Audio output terminals, the 2 channel output and the AC-3/DTS digital output (pass through).
- **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 a situation occurs, please take 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.

Possible Connections:

Audio/Video Connection of the DVD-Player with the TV over SCART:

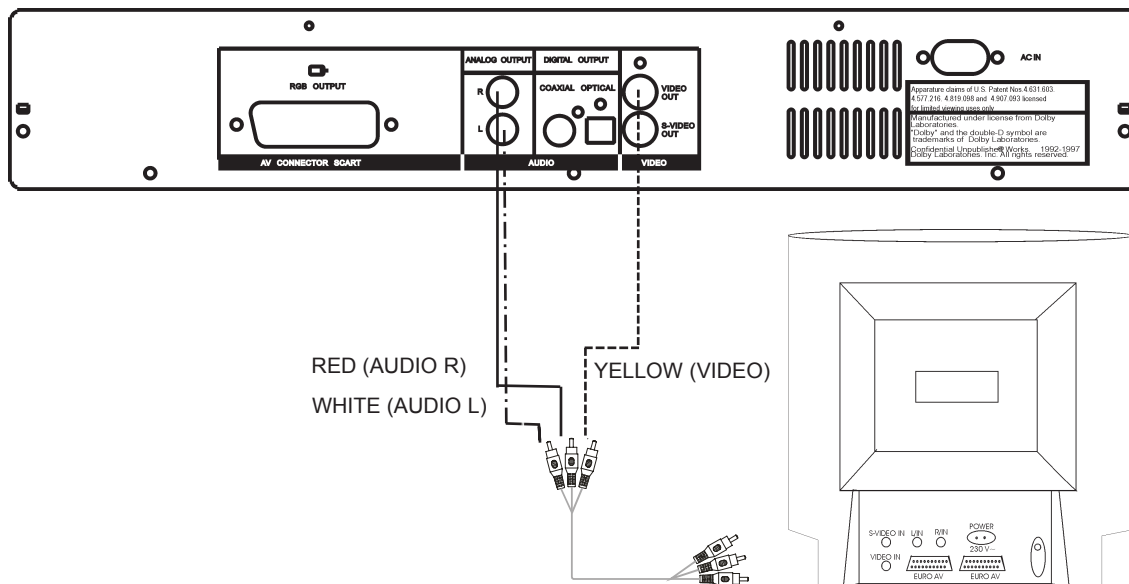
If your TV has a SCART socket, you can optionally connect your device with the TV over the SCART socket. The advantage is here an optimal picture quality. In this case, please use a completely connected SCART cable, which is also included in your accessory (optional). If the TV offers the possibility to choose manually between RGB and CVBS, you should set your TV to RGB in order to achieve a better picture quality. 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 (if the TV supports this function).



ELECTRICAL CONNECTIONS

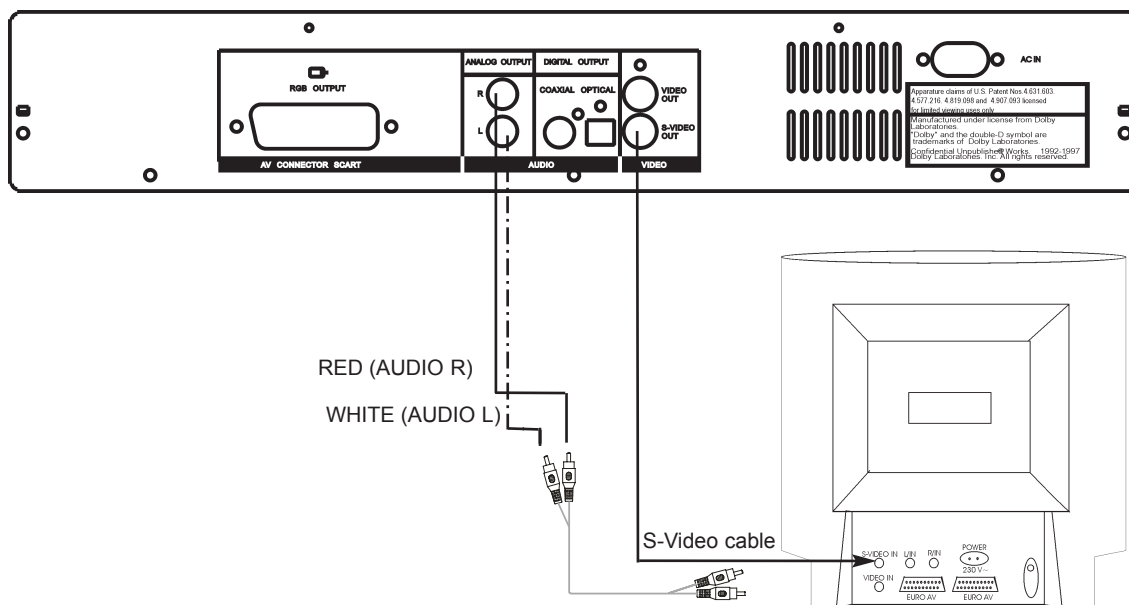
Audio/Video Connection of the DVD-Player with the TV over the Cinch cable:

Please connect the Cinch outputs with the corresponding Cinch inputs on your TV by means of the Cinch cable.



Audio/Video Connection of the DVD-Player with the TV with the Cinch cable and S-Video cable:

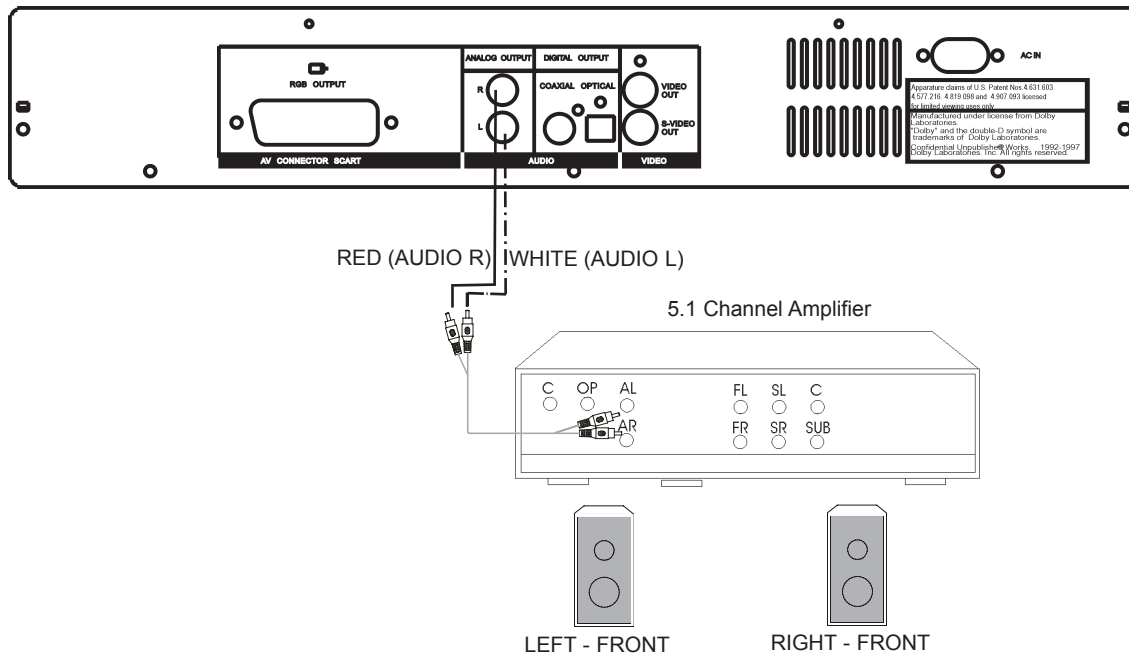
Please connect the Cinch outputs and the S-Video output with the corresponding inputs on your TV.



ELECTRICAL CONNECTIONS

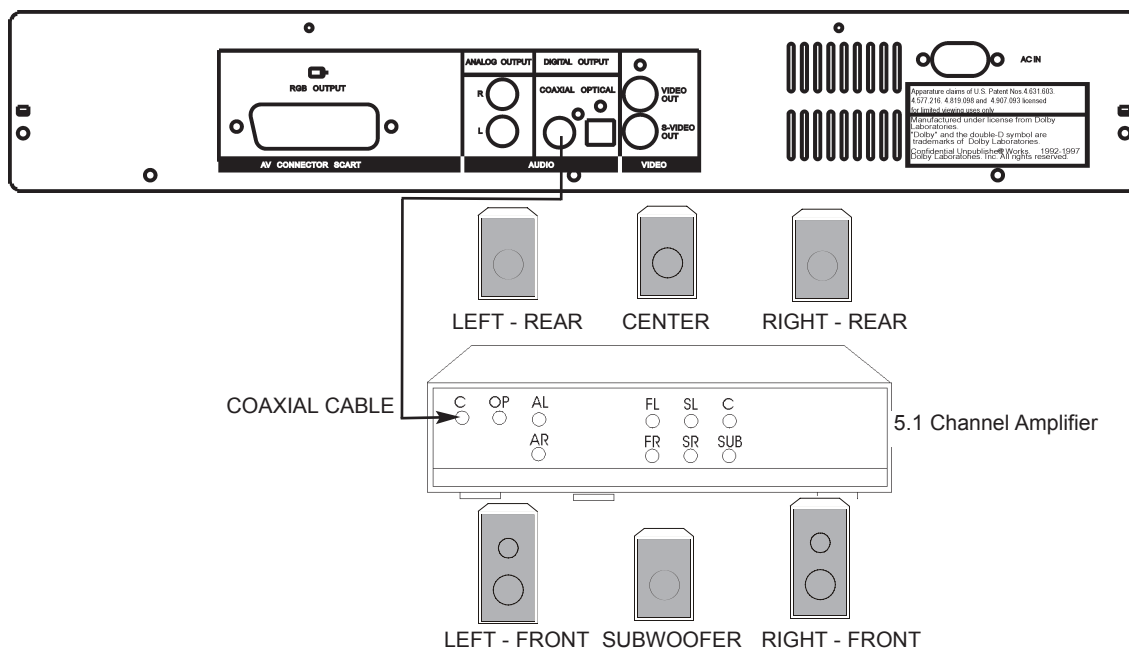
Audio Connection of the DVD-Player over the Analogue Stereo Output (2 Channel Downmix):

Please connect the Audio left and Audio right analogue output with the corresponding input on your amplifier by means of the Cinch cable.



Audio Connection of the DVD-Player over the Coaxial Output:

Please connect the digital coaxial output with the corresponding input on the amplifier by means of a coaxial cable. Please note that this connection is only possible if your amplifier contains a DTS/Dolby Digital Decoder. In this case the digital output has to be set to SPDIF RAW. For standard amplifiers without decoder the digital output has to be set to SPDIF/PCM.

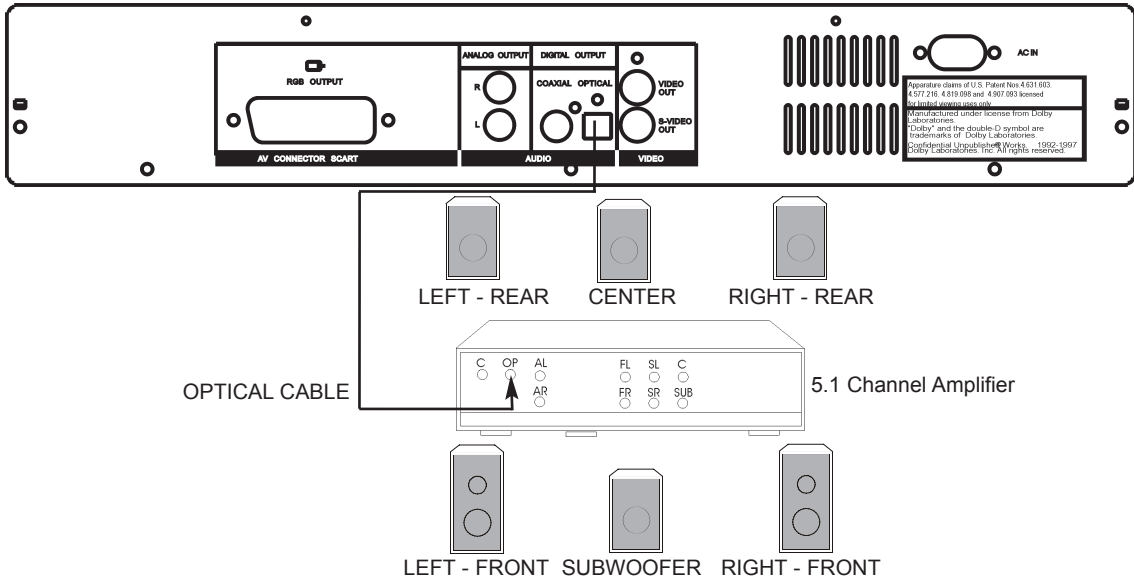


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ELECTRICAL CONNECTIONS

Audio Connection of the DVD-Player over the Optical Output:

Please connect the digital optical output with the corresponding input on the amplifier by means of an optical cable. Please note that this connection is only possible if your amplifier contains a DTS/Dolby Digital Decoder. In this case the digital output has to be set to SPDIF RAW. For standard amplifiers without decoder the digital output has to be set to SPDIF/PCM.



VIEWING & LISTENING

- Switch on the TV, then switch the "TV/VIDEO" mode to "VIDEO" mode. This player can play the formats DVD, VCD, CD-R/RW, MP3, Photo CD with JPEG files and DTS discs.
- If it is connected to an AUDIO system, the amplifier has to be switched on and the corresponding input has to be set (e. g. "CD" or "AUX").

1. Switch on the power

- Press the "POWER/ON/OFF" switch to activate the power of the device.
- When the display panel indicates "ON", "READ", the disc is read.
- If no disc is inserted, the display panel will indicate "INSERT DISC".

2. Insert the disc

- Press the "OPEN/CLOSE" button to open the tray. 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 display panel.
- If the disc supports the "FIRST PLAY" function, the title of the disc will be played immediately.

3. Start playing

- Press the "PLAY" button to start playing the disc:
 - * 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:
 - * "HOLD" will appear on the display.
 - * Press the "PLAY" button again to start playing on the same place.
 - * Press the "STOP" button twice to stop playing. "STOP" will appear on the display.

5. Remove the disc

- Press the "OPEN/CLOSE" button. The display indicates "OPEN", remove the disc.

6. Switch off the power

- After pressing the "POWER" button on the remote control, the device will go into standby mode. In order to switch the device completely off, please press the "POWER/ON/OFF" on the front panel.

SETUP MENU

Important notes for moving in the main menu:

- Press the "SETUP" button on the remote control in the "STOP" mode.
- The setup menu has five setting items: General Setup, Audio Setup, Video Setup, Language Setup, Exit Setup
- The control of the main menu may be effected by pressing the direction keys ▲, ▼, ► and ◀. To finalize your selection, please press the button "ENTER" on your remote control. To exit please go back to the Main Page and choose "Exit Setup".

GENERAL SETUP

Angle Mark

- Highlight "Angle Mark" in the general setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to enable or disable the multi-angle display. Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control. The number of angles depends on the disc.

Close Captions

- Highlight "Close-Captions" in the general setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to enable or disable the close caption feature. Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.
- **Note:** Please note that the DVD has to support this feature. Furthermore, you need a Video Subtitle Decoder.

Screen Saver

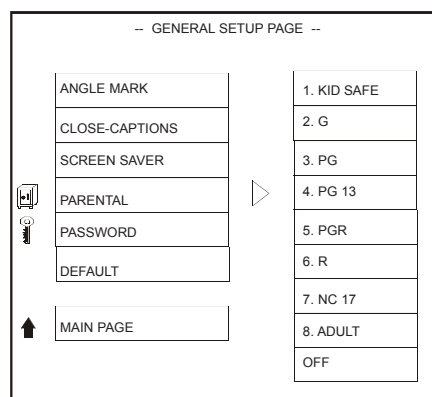
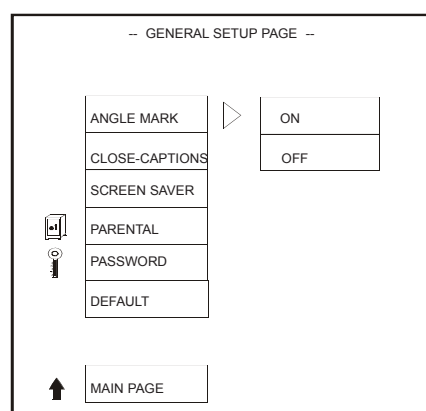
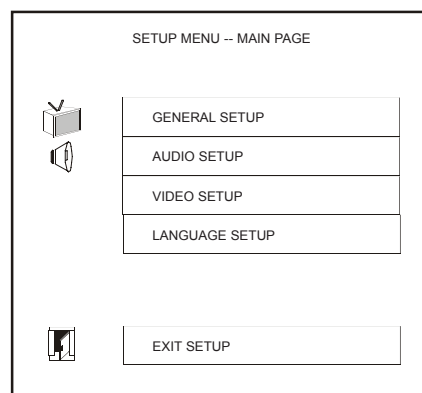
- Used to set the amount of time the device should be idle before the screen saver is enabled and before the device goes into Standby mode.
- Highlight "Screen Saver" in the general setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to enable or disable the screen saver. Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.

Parental

- Used to select the level of parental control required. When the level is set, a disc above this level can only be viewed if the correct password is entered. The lower the value is, the more strict the limitation. You can choose the following playback limitations:

1. KID SAFE
2. G
3. PG
4. PG 13
5. PGR
6. R
7. NC 17
8. ADULT
- OFF

- Highlight "Parental" in the general setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to choose the required playback limitation. Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.
- **Note:** Any changes in the parental setup require to enter a password. The password setup is explained in the "Password" menu.



ENG

SETUP MENU

Password

- To set the password, please highlight "Password" in the general setup menu. Please press the direction button ► to highlight the menu point "Change". Press "ENTER" to open the password change page. Enter now the last stored password using the number keys on your remote control. Enter now the new password and confirm your setup by entering this password again. You will now be asked to press "ENTER" to continue.
- In order to activate the new password, please leave the setup menu. When pressing again the "SETUP" button, the new password is activated.
- **Note:** Please keep your password in mind!

-- GENERAL SETUP PAGE --

ANGLE MARK	
CLOSE-CAPTIONS	
SCREEN SAVER	
PARENTAL	
PASSWORD	► CHANGE
DEFAULT	

↑ MAIN PAGE

-- PASSWORD CHANGE PAGE --

OLD PASSWORD

NEW PASSWORD

CONFIRM PWD

PLEASE ENTER OLD PASSWORD

Default

- If you want to reset the default settings, please highlight "Default" in the general setup menu. Please press the direction button ► to highlight the menu point "Reset". Press "ENTER" to reset the OSD settings to the original factory settings.
- **Note:** Please note that the Password or Parental settings won't be changed or deleted.

AUDIO SETUP

SPDIF Output

- Highlight "SPDIF Output" in the audio setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to select one of the following options:

SPDIF OFF: Please select this option to switch the digital output off. Please note that the analogue outputs are still enabled.

SPDIF / RAW (Digital DOLBY/DTS): Digital Coding of one to six channels (5 plus 1) in a bitstream (Dolby Digital/DTS). If you would like to enjoy the effect of DVD 5.1, please select SPDIF RAW.

SPDIF / PCM: PCM (Pulse Code Modulation). The 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). Alternatively, audio for most films is stored as discrete, multi-channel surround sound using Dolby Digital or DTS audio compression similar to the digital surround sound formats used in theatres.

- Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.

-- GENERAL SETUP PAGE --

ANGLE MARK	
CLOSE-CAPTIONS	
SCREEN SAVER	
PARENTAL	
PASSWORD	
DEFAULT	► RESET

↑ MAIN PAGE

-- AUDIO SETUP PAGE --

SPDIF OUTPUT	► SPDIF OFF
DOWNMIX	SPDIF/RAW
DUAL MONO	SPDIF/PCM
DYNAMIC	

↑ MAIN PAGE

SETUP MENU

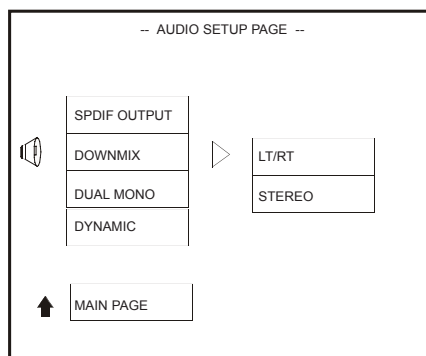
Downmix

- Output over analogue audio output and additionally over the digital output when set to PCM.
- Highlight "Downmix" in the audio setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to select one of the following options:

LT/RT: If you set to LT/RT, a mixed signal of the surround signal will be produced on the left and right output. The left output signal consists of the front left signal plus centre and the sum signal of the left and right signal of the surround speakers. The right output signal consists of the front right signal plus subwoofer plus the difference signal of the left and right signal of the surround speakers.

STEREO: If you set to STEREO, the left signal consists of the front left signal plus surround left signal and sum signal of the centre and subwoofer. The right signal consists of the front right signal plus surround right signal and sum signal of the centre and subwoofer.

- Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.



Dual Mono

- Highlight "Dual Mono" in the audio setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to select one of the following options:

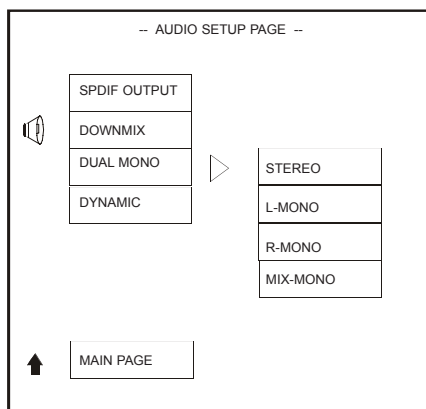
STEREO: Sets the stereo signal.

L-MONO: There will only be output of the left signal on the left and right loudspeaker.

R-MONO: There will only be output of the right signal on the left and right loudspeaker.

MIX-MONO: The left and right signal will be mixed and put out mixed on the left and right loudspeaker.

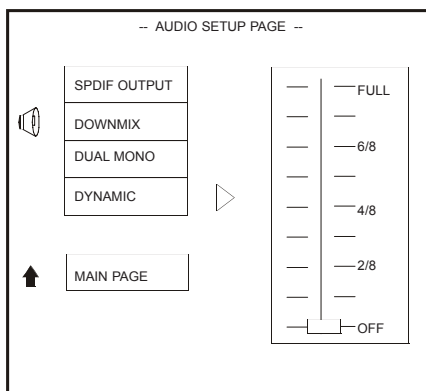
- Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.



ENG

Dynamic

- In this menu you can set the Dynamic Range Control. Big volume jumps will be reduced, if they are annoying - e. g. late in the evening.
- Highlight "Dynamic" in the audio setup menu. Please press the direction button ► to enter the menu. Move the bar by pressing the buttons ▲ or ▼ to select the required dynamic range control. You can set this mode to OFF, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8 and FULL.
- Please press the button ◀ on your remote control to leave this menu point.



SETUP MENU

VIDEO SETUP

TV Type

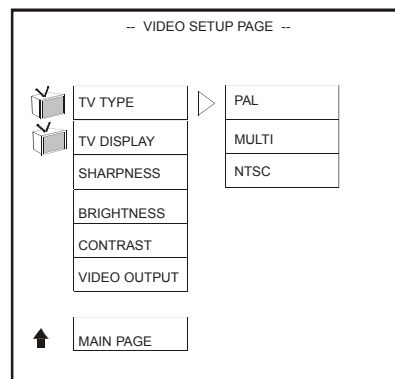
- Highlight "TV Type" in the video setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to select one of the following options:

PAL: Television norm in most European countries (from 625 lines only 576 lines will be transferred with a picture changing frequency of 50 half pictures per second).

MULTI: The DVD will be played in the original format (multinorm TV necessary).

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).

- Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.



TV Display

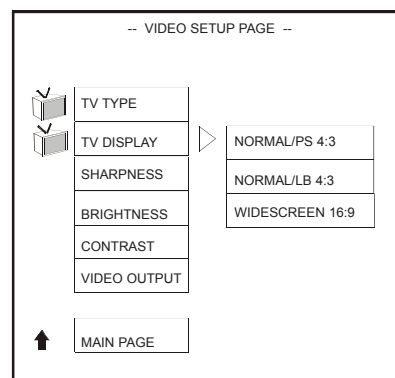
- Highlight "TV Display" in the video setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to select one of the following options:

NORMAL/PS 4:3 (Pan-Scan): Transmission of a widescreen film on a standard size television with the sides chopped off.

NORMAL/LB 4:3 (Letterbox): Transmission of a widescreen film with bars on top and on bottom on a standard size television.

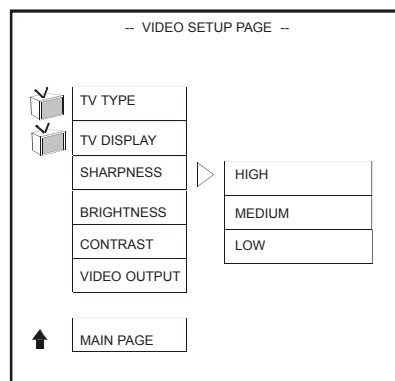
WIDESCREEN 16:9: Transmission of a widescreen film on video with black bars on top and on bottom. This setting is recommended if you are using a television with 16:9 format.

- Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.



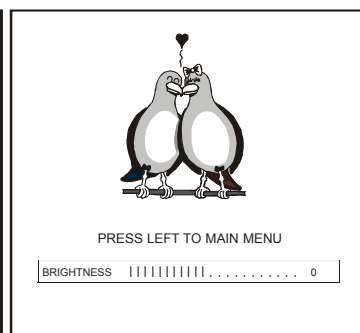
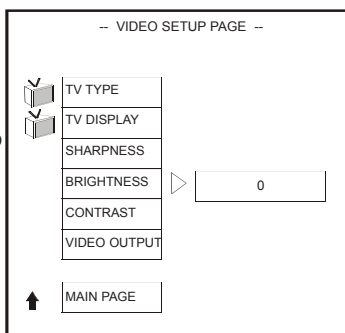
Sharpness

- In this menu you can adjust the picture sharpness.
- Highlight "Sharpness" in the video setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to set the sharpness either to high, medium or low.
- Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.



Brightness

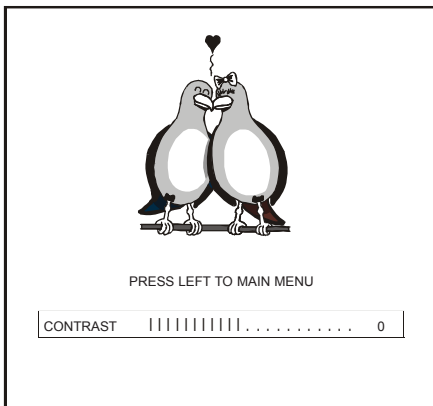
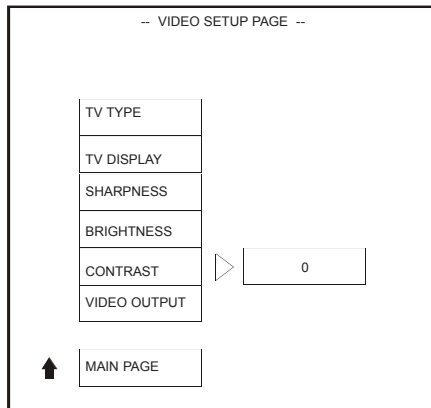
- In this menu you can adjust the brightness of the picture.
- Highlight "Brightness" in the video setup menu. Please press the direction button ► to enter the menu. Move the bar by pressing the buttons ▲ or ▼ to set the brightness. The setting range is from -20 to +20.
- Please press the button ◀ on your remote control to leave this menu point.



SETUP MENU

Contrast

- In this menu you can adjust the contrast of the picture.
- Highlight "Contrast" in the video setup menu. Please press the direction button ► to enter the menu. Move the bar by pressing the buttons ▲ or ▼ to set the brightness. The setting range is from -20 to +20.
- Please press the button ◀ on your remote control to leave this menu point.

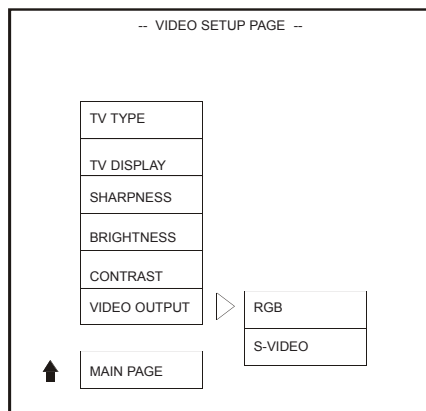


Video Output

- In this menu you can either set the video output to RGB or S-Video.

RGB (over Scart): 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).

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.



ENG

LANGUAGE SETUP

Highlight the menu point you would like to set in the language setup menu. Please press the direction button ► to enter the menu. Move the highlight bar by pressing the buttons ▲ or ▼ to select the required language. Please press "ENTER" to finalize your selection. You can leave this menu by pressing the button ◀ on your remote control.

OSD Language

Sets the language for the user interface menus. You can choose between different languages.

Audio

Sets the language for the disc sound track.

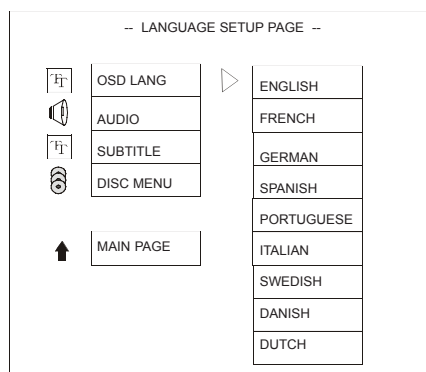
Subtitle

Sets the language in which subtitles are displayed. If no subtitle display is required, please select "OFF".

Disc Menu

Sets the language in which the menus provided on the disc are displayed.

Note: You are only able to select the menu points AUDIO, SUBTITLE and DISC MENU in "Stop" mode.



PLAYING FUNCTIONS

Selecting a section of the disc to play

If you do not want to play the entire disc, you can select a section to play using one of the following options:

1. Selecting a chapter using the DVD menu

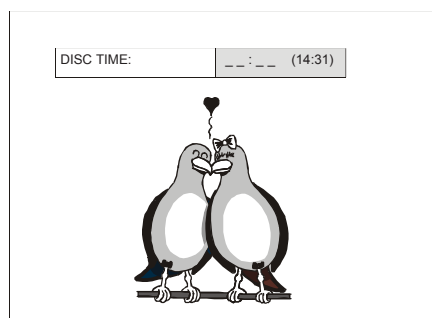
Some DVDs are provided with a menu that, among other options, allows you to select a specific chapter to play.

- Press the button "MENU" on the remote control. The DVD menu is displayed.
- Use the direction buttons to highlight the chapters option in the menu and press "ENTER". The available chapters are displayed.
- Use the direction buttons to highlight the chapter that you want to play and press "ENTER". The menu is closed and the chapter is immediately played.

2. Playing from a specific time on a disc, in a track or title

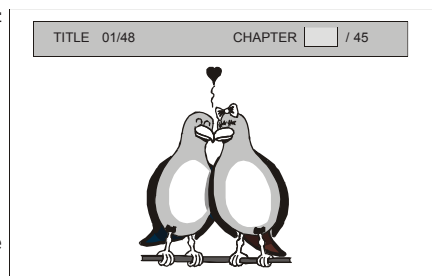
This function is available for audio discs and other discs that support the facility, to move to a specific time on a disc, in a track or title.

- Press the button "GOTO" on your remote control until either the option "Disc Time", "Track Time" or "Title Time" is displayed on the screen. The total time of the disc, track or title is displayed behind the option.
- Use the number buttons on your remote control to enter the time that you want to move to in the format h:mm:ss. When entering the wrong number, please press the button "C" on your remote control to delete your input. When you have finished entering the time, the option is closed and the disc, track or title is played from the time entered.



3. Playing a specific track (for Audio Discs and Video CDs) or chapter and title (for DVDs)

- Press the button "GOTO" on your remote control until either the option "Select Track" (for Audio Discs and Video CDs) or "Title and Chapter" (for DVDs) is displayed on the screen. The total number of tracks or titles and chapters are displayed.
- Use the number buttons on your remote control to enter the track or title and chapter that you want to play. If there are more than nine tracks, chapters or titles, you must press the button "+10" and enter the next digit. If there are more than 19 tracks, chapters or titles, you must press the button "+10" twice and enter the next digit. For example, press the button "+10" and enter 2 to play track 12. Or press the button "+10" twice and enter 2 to play track 22. When you have entered the numbers required, the option is closed and the selected track or title is played.



4. Skipping through the chapters or tracks

While you are playing a disc you can skip to the next or previous chapter (on a DVD) or track (on an audio disc). This is carried out using the "Skip_FWD" and "Skip_BWD" buttons.

- To skip to the beginning of the next chapter or track, press the button "SKIP_FWD".
- To skip to the beginning of the previous chapter or track, press the button "SKIP_BWD".

Using the repeat features

The repeat feature allows you to repeat a section of a disc once it has finished playing. An entire disc, a playlist, a single track, a single chapter, a single title or a section of the disc between two selected points can be repeated.

1. Repeating an entire disc or playlist

To repeat an entire disc or playlist, press the button "REPEAT 1/ALL" on your remote control until "ALL" is displayed in the top left corner of the screen. To stop the disc repeating, press again the button "REPEAT 1/ALL" until no repeat mode is displayed on the screen.

PLAYING FUNCTIONS

2. Repeating a track, chapter or title

Play the track, chapter or title that you want to repeat. Press the button "REPEAT 1/ALL" on your remote control until the required repeat mode is displayed in the top left corner of the screen. This can be "TRACK", "CHAPTER" or "TITLE". When the disc reaches the end of the selected track, chapter or title, it will start playing it again. To stop the track repeating, press the "REPEAT 1/ALL" button again until no repeat mode is displayed on the screen.

3. Repeating a section of any disc

A section of any disc can be repeated using the button "REPEAT A-B". This feature allows you to select where you want the repeat to start and then the section where you want the repeat to stop.

- As the disc is playing, press the button "REPEAT A-B" at the beginning of the section that you want to repeat. [G_A] is displayed in the top left corner of the screen.
- Press the button "REPEAT A-B" again when the end of the section that you want to repeat is reached. [G_{AB}] is displayed in the top left corner of the screen and the section is continually repeated. To stop the section repeating, press the button "REPEAT A-B" again until no repeat mode is displayed on the screen and the disc plays normally.

Playing a disc at different speeds (fast forward/backward search)

The function is available to play a disc at different speeds in different directions. To play the disc at different speeds in a forward direction use the button "FAST FWD SEARCH" on your remote control. The speeds that can be achieved are 2x, 4x, 8x and 16x for DVDs, Video CDs and Audio Discs.

To play the disc at different speeds in reverse use the button "FAST BWD SEARCH" on your remote control. The speeds that can be achieved in reverse are 2x, 4x, 8x and 16x for DVDs, Video CDs and Audio Discs.

To change from playing the disc at a different speed to normal speed, press the button "PLAY".

Playing a disc frame by frame

As the disc is playing, press the button "SLOW" on your remote control 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>1/16. Another pressing of the key will slow down the speed in reverse range step by step, from 1/2>1/4>1/8>1/16. Pressing the Slow key again 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.

Still the Picture Frame

Pressing the "PAUSE" key during play will still the frame. To continue watching normal play, press again the "Pause" key.

ENG

Zooming in and out of an image

Zooming in and out can be carried out on a DVD whether it is playing or is paused. To use the zoom facility, press the button "ZOOM" on your remote control. "2x" is displayed in the top right corner of the screen and you are zoomed in. Another pressing of the key will zoom further into the picture (3x, 4x). When you are zoomed in move around the screen using the direction buttons.

Whenever the "ZOOM" button is now pressed once, the picture size will reduce to 1/2, 1/3 and 1/4. To zoom completely out, press the button "ZOOM" again and the picture returns to normal.

Using the Intro feature

When playing a Video CD or DVD, press the "INTRO" key on your remote control. A menu will appear on the screen asking you to select the digest type. Select one of the options "Title Digest", "Chapter Digest", "Title Interval" and "Chapter Interval" (for DVDs) or "Track Digest", "Disc Interval" and "Track Interval" (for Video CDs) and press "ENTER". The first seconds of each title, chapter, title interval and chapter interval (for DVDs) or of each track and disc interval (for Video CDs) will be played. Press the number keys to select the title, chapter, title interval and chapter interval (for DVDs) or track digest, track interval and disc interval (for Video CDs) that you want to play. Press "Enter" to start the playing from the selected place.

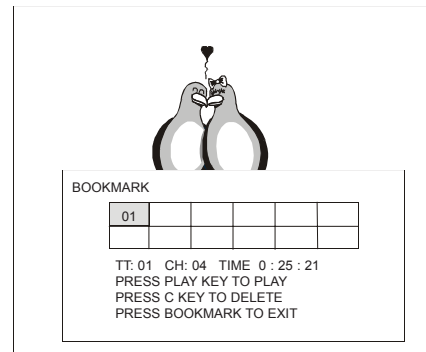
When playing a CD, press the "INTRO" key to play the first 5 seconds of each track. Pressing the button "PLAY" will return to normal play.

PLAYING FUNCTIONS

Using position markers (Bookmark)

The bookmark feature allows you to set markers at up to 12 different places on the disc. When you select a previously set marker then, the disc will skip to the place marked. To set a marker, please follow these steps:

- As a DVD, Video CD or CD is playing, press the button "BOOKMARK" on your remote control. A menu will be displayed on the screen.
- Use the direction keys to select the bookmark that you want to set.
- When the point at which you want the marker to be set is reached, press the button "PLAY". Details of the selected marker are displayed. If you set the marker to the wrong point you can delete it by pressing "C" on your remote control.
- To jump to a marker that you have set, highlight it and press "PLAY" to play it.
- To exit the bookmark menu, please press the "BOOKMARK" key again.



Using the sound effects

Press the button "EFFECT" on your remote control to enable the sound effects. Press the button "EFFECT" until the required sound effect is displayed on the screen. The following sound effects are available:

- Rock, Pop, Live, Dance, Techno, Classic, Soft for DVDs.
- Concert, Living Room, Hall, Bathroom, Cave, Arena, Church for Audio discs and Video CDs.

If you want to disable the sound effects, please press the button "EFFECT" until "Off" is displayed on the screen.

Changing the time displayed

Press the button "DISPLAY" on your remote control. The disc and time information will be indicated on the screen. Press the button "DISPLAY" until the required time display is shown in the top left corner on the screen. Possible types of time displays for DVDs are:

- **Title elapsed**, the time the title has been played until now
- **Title remain**, the time remaining on the title
- **Chapter elapsed**, the total time the chapter has been played until now
- **Chapter remain**, the time remaining on the chapter
- **Display off**

Possible types of time displays for CDs are:

- **Single elapsed**, the time the track has been played until now
- **Single remain**, the time remaining on the track
- **Total elapsed**, the total time the disc has been played until now
- **Total remain**, the time remaining on the disc
- **Display off**

Possible types of time displays for Video CDs and MP3s are:

- **Single elapsed**, the time the track has been played until now;
- **Single remain**, the time remaining on the track;
- **Display off**

SPECIAL FEATURES FOR DVD

Using the DVD menu

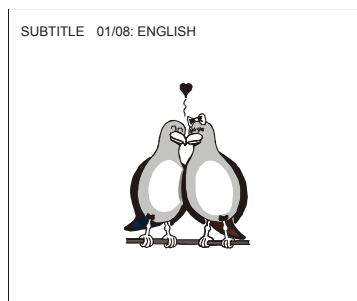
A menu that can be used to select what you want to view is provided on most DVDs. There may be, for example, a list of all of the chapters on the disc or a list of extra items that have been provided.

To display the DVD menu, press the button "MENU" or "TITLE" (depending on the disc's design) on your remote control as the disc is playing. Navigate around the menu using the direction buttons ▲ and ▼ and press the button "ENTER" to select the highlighted item.

Displaying subtitles

If the currently playing DVD provides more than two types of subtitle languages, then during the playing, you may change the subtitle or choose to display or conceal the subtitles. The number of subtitles that can be changed depends on the content of the disc. Displaying subtitles can be carried out as described below:

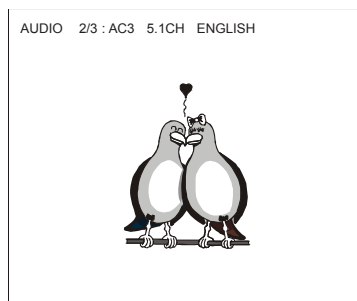
- Press the button "SUBTITLE" on your remote control. A message is displayed on the screen indicating the language you have selected.
- To change the language that the subtitles are displayed in, press the button "SUBTITLE" again until the required language is displayed.
- To turn the subtitles off, press "SUBTITLE" until "SUBTITLE OFF" is displayed on the screen.



Changing the audio language

Some DVDs offer the facility to change the language that is used for the audio. Selecting the language to use for the audio can be set as described below:

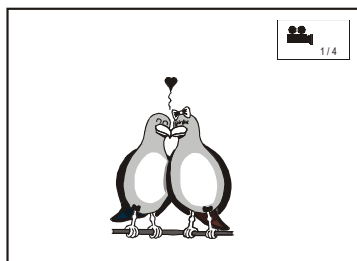
- Press the button "AUDIO" on your remote control. A message is displayed on the screen indicating the language you have selected.
- To change the language, press "AUDIO" again until the required language is displayed.



Changing the angle of view

Some DVDs offer the facility to change the angle of view. Selecting the angle to view the image can be set as described below:

- Press the button "ANGLE" on your remote control. A message is displayed in the top right corner of the screen indicating the angle you have selected.
- To change the angle, press "ANGLE" again until the required view is displayed. You can also change the angle by pressing the number of the required view. The number of angles depends on the content of the disc. The screen will interchange to the selected angle after 1-2 seconds.



ENG

SPECIAL FEATURES FOR VCD

Using playback control (PBC)

On Video CDs, the playback control option can be used to enable a menu similar to the DVD menus. There may be, for example, a list of all chapters on the disc or a list of extra items that have been provided. To enable the playback control option, follow these steps:

- As the disc is playing press the button "MENU" on your remote control to change the setting to "PBC ON". PBC is displayed on the display on the front panel. Select the required track using the number keys on your remote control.
- In order to disable the PBC function, please press again the button "MENU" to change the setting to "PBC OFF".

Only Video CDs with Playback Control can use this playing function. Due to the differences in the disc design, the operation method may be different. Please refer to the instructions in each disc.

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

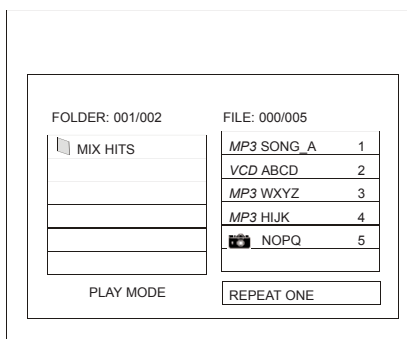
SPECIAL FEATURES FOR MP3, JPEG AND MPEG FILES

Playing of MP3s, JPEG and MPEG files

When inserting an Audio disc with MP3s, JPEG or MPEG files (or mixed), a menu will automatically be displayed on the screen. Select the folder that you want to play by pressing the direction keys ▲ and ▼ and press the button "ENTER". The subdirectories will now be shown on the screen on the left side. Select the required subdirectory and press the direction key ► and select the track (MP3), JPEG or MPEG file that you want to play by pressing the up and down direction keys and press "ENTER" to start playing. To stop playing of a MP3 or MPEG file, please press the button "STOP" on your remote control. To stop playing of a JPEG file, please press the button "MENU" on your remote control.

There are different play modes available:

- **Normal**, plays the tracks, JPEG or MPEG files of the selected folder
- **Single**, plays only the selected track, JPEG or MPEG file
- **Repeat One**, repeats the selected track, JPEG or MPEG file
- **Repeat Folder**, repeats the selected folder



The play mode can be changed by pressing the button "REPEAT 1/ALL" on your remote control until the required play mode is shown in the play mode window on the screen. The tracks, JPEG or MPEG files (or mixed) will be played according to the selected play mode.

Additional features for JPEG files

1. Rotation of a picture

To rotate the picture, press the direction buttons on your remote control after you have selected a JPEG file. In this way, the picture can be rotated in each direction.

2. Making a preview

To make a preview of all pictures, press the button "STOP" on your remote control after you have selected a JPEG file. All pictures will now be shown on the screen. Please press the button ►► to preview more pictures if available. To return please press the button ◀◀. You can select a picture by pressing the direction keys. Select a picture and press the button "ENTER" or "PLAY" on your remote control to start playing. You can also select a menu indicating the remote key functions.

3. Making a slide show

To make a slide show, press the button "STOP" on your remote control after you have selected a JPEG file. Please select "Slide Show" by pressing the direction keys and press "ENTER". The slide show may be effected in different modes by pressing the button "PROG" on your remote control until the required mode appears in the top left corner of the screen. The following modes can be selected for your slide show:

- Wipe top
- Wipe bottom
- Wipe left
- Wipe right
- Diagonal wipe left top
- Diagonal wipe right top
- Diagonal wipe left bottom
- Diagonal wipe right bottom
- Extend from center horizontal
- Extend from center vertical
- Compress to center horizontal
- Compress to center vertical
- Window horizontal
- Window vertical
- Wipe from edge to center
- Random
- None

4. Zooming in and out

Zooming in and out can be carried out on a JPEG picture by pressing the button "ZOOM" on your remote control. "ZOOM 100%" will be displayed in the top left corner of the screen. To zoom in please press the button ►►. You can zoom in the picture 125%, 150% and 200%. When you are zoomed in move around the screen using the direction buttons. To zoom out please press the button ◀◀ until the required size is reached (possible are 200%, 150%, 125%, 100%, 75% and 50%). To zoom completely out, please press the button "ZOOM" again. In this way you will reach the normal picture size.

CREATING A PLAYLIST

The Playlist facility is available to record a list of tracks, titles and chapters in the order that you want to play them. A playlist can be created by pressing the button "PROG" on your remote control and is available for DVDs, VCDs, CDs MP3s and Photo CDs with JPEG files.

The control of the program menu of DVDs, VCDs and CDs may be effected by pressing the direction keys. To delete a programmed sequence, please press the button "C" on your remote control. To start the playing of the programmed sequence, please select "START" with the direction keys and press "ENTER". To stop the playing of the program, please press again the button "PROG", select "STOP", press "ENTER" and exit the menu by pressing again "ENTER". Please note that you are not able to program a new sequence while the program is played.

Note: If there are more than nine titles, chapters or tracks, you must press the button "+10" and enter the next digit. If there are more than 19 titles or chapters, you must press the button "+10" twice and enter the next digit. For example, press the button "+10" and enter 2 to play track 12. Or press the button "+10" twice and enter 2 to play track 22.

Creating a playlist of DVDs

Press the button "PROG" on your remote control to display the program menu as shown on the right side. Please enter a number by pressing the number keys on your remote control to select the title you want to program. The total number of available titles is indicated behind the title field [e.g. TT (06)]. Please enter now a number to select the chapter of the title you want to program. The total number of available chapters is indicated behind the chapter field after you have selected the title.

PROGRAM: TT (06) / CH (-)			
01 TT:	CH:	06 TT:	CH:
02 TT:	CH:	07 TT:	CH:
03 TT:	CH:	08 TT:	CH:
04 TT:	CH:	09 TT:	CH:
05 TT:	CH:	10 TT:	CH:
EXIT		NEXT ►►	

You can now program other titles and chapters in the same way. You may totally program 20 sequences. Press the button ►► to advance to the next 11-20 program fields, press the button ◀◀ to return back to the first 10.

Creating a playlist of VCDs or CDs

Press the button "PROG" on your remote control to display the program menu as shown on the right side. Please enter a number by pressing the number keys on your remote control to select the track you want to program. The total number of available tracks is indicated behind the track field [e.g. TRACK (01-07)].

PROGRAM: TRACK (01-07)	
01 --	06 --
02 --	07 --
03 --	08 --
04 --	09 --
05 --	10 --
EXIT	
NEXT ►►	

You can now program other tracks in the same way. You may totally program 20 tracks. Press the button ►► to advance to the next 11-20 program fields, press the button ◀◀ to return back to the first 10.

Creating a playlist of MP3s, JPEG and MPEG files

Press the button "PROG" on your remote control to display the program menu as shown on the right side. Please select the track (MP3), JPEG or MPEG file you want to add to your playlist by pressing the up and down direction buttons and press "ENTER". You can add other tracks, JPEG or MPEG files in the same way.

To delete a programmed track, JPEG or MPEG file, please press the button ► on your remote control and select the track, JPEG or MPEG file that you want to delete by pressing the buttons ▲ and ▼ and press "C" to delete it.

To start the playing of the programmed track, JPEG or MPEG file, please press the button ► on your remote control and select the track, JPEG or MPEG file by pressing the buttons ▲ and ▼ and press "ENTER" to start the playing. To stop the playing of the program, please press the button "STOP" for MP3 files or "MENU" for JPEG or MPEG files.

Please note that the track or file name can only be displayed with up to 11 letters. More than 11 letters will be cut in the playlist.

Note: You can create a disc containing only MP3 tracks, JPEG or MPEG files or you can create a mixed disc containing all three formats.

CURRENT: 000		TOTAL: 000	
MP3 SONG_A	1		
VCD ABCD	2		
MP3 WXYZ	3		
MP3 HIJK	4		
NO PQ	5		
PROGRAM LIST		NORMAL	

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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	<ul style="list-style-type: none"> - AC cord has been loosened - The power switch is switched off 	<ul style="list-style-type: none"> - Please properly connect the AC cord - Please switch the power switch on the rear panel on.
Unable to close the disc tray	<ul style="list-style-type: none"> - The disc is not properly placed 	<ul style="list-style-type: none"> - Please place in the disc again
Unable to play	<ul style="list-style-type: none"> - The power is not on - No disc is placed in (the display indicates "INSERT DISC") - The disc is placed on the wrong side - Disc coded - Disc too dirty - Disc distorted - The Player has condensation 	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - 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
No Picture	<ul style="list-style-type: none"> - The device has not properly been connected - The TV is not set to DVD/Video mode 	<ul style="list-style-type: none"> - Check if all connections are correct - Set the TV to the Audio-Video program (e. g. AV1 or AV2)
No sound reproduced from the 5.1 channel*	<ul style="list-style-type: none"> - There is a mistake in the audio setup 	<ul style="list-style-type: none"> - Reset the audio mode to the original settings
Subtitles do not appear	<ul style="list-style-type: none"> - The subtitle setting has been shifted to "Subtitle Off" 	<ul style="list-style-type: none"> - Shift the subtitle setting to "Subtitle On"
Remote control does not work	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - Replace new batteries - Please use the remote control correctly - Place in a disc

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

LIST OF LANGUAGES

CODE	LANGUAGE	CODE	LANGUAGE	CODE	LANGUAGE
6565	Afar	7384	Italian	8376	Slovenian
6566	Abkhazian	7387	Hebrew	8377	Samoa
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		

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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 if there is no other option.
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 its 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. It differs regarding 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	It is the most popular kind of transmission for colourful video pictures with only one wire. A 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 in most cases 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).
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. The picture size of a movie 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, letter-box (4:3) or Pan & Scan. Depending on the original size and the scanning, a different play back 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.

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