

DVD Video player

DVD957 /  
DVD951



*Let's make things better.*



**PHILIPS**

# Important Note

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## DK

### Advarsel:

Laserrudstråling ved åbning når sikkerhesafbrydere er ude af funktion. Undgå u tsættelse for stråling.

### Bemærk:

Netafbryderen POWER er sekundært indkoblet og afbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.

## N

### Observer:

Nettbryteren POWER er sekundært innkoplet. Den innebygdenetdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

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## S

### Klass 1 laserapparat

### Varning!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kann användaren utsättas för laserstråling, som översjrunder gränsen för läserklass 1.

### Observera!

Strömbrytaren POWER är sekundärt kopplad och inte bryter strömmen fråan nätet Den inbyggda nätdelen är därför ansluten till elnätet så länge stickproppen sitter i v ägguttaget.

## SF

### Luokan 1 laserlaite + Klass 1 laserapparat

### Varoitus!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle lasersäleille.

### Huom.

Toiminnanvalitsin POWER on kytketty toisiopuolelle, eikä se kytke laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettynä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.

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# Important Note for Users in the UK

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## Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

*Note: The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.*

## How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or e) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

## Copyright in the U.K.

**Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.**

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English

Français

Español

Deutsch

Nederlands

Italiano

Svenska

Dansk

Suomi

Português

Ελληνικά

# General Information

The region code for this set is 2.



Since it is usual for DVD movies to be released at different times in different regions of the world, all players have region codes and discs can have an optional region code. If you load a disc of a different region code to your player, you will see the region code notice on the screen. The disc will not playback, and should be unloaded.

**NOTE:  
PICTURES SHOWN MAYBE DIFFERENT  
BETWEEN COUNTRIES.**

**NEVER MAKE OR CHANGE CONNECTIONS  
WITH THE POWER SWITCHED ON.**

**CAUTION  
(WARNING LOCATION: ON THE BACKPLATE  
OF SET)**

*Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issued and pending. "DTS" and "DTS DIGITAL SURROUND" are trademarks of Digital Theater Systems, Inc. © 1996 Digital Theater Systems, Inc. All rights reserved.*

**CE** The DVD-VIDEO player is in conformity with the EMC directive and low-voltage directive.

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**TruSurround™**  
by **SRS** (●)®

For Customer Use:

Read carefully the information located at the bottom of your DVD-VIDEO player and enter below the Serial No. Retain this information for future reference.

Model No. DVD-VIDEO  
Serial No. \_\_\_\_\_

## Laser safety

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

**USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

### LASER

Type	Semiconductor laser GaAlAs
Wave length	650 nm (DVD) 780 nm (VCD/CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

### CAUTION

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM

### ADVARSEL

SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING  
UNDGÅ UDSÆTTELSE FOR STRÅLING

### ADVARSEL

SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL  
ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

### VARNING

SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR  
DENNA DEL ÄR ÖPPNAD BETRakta EJ STRÅLEN

### VARO!

AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA  
NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO  
SÄTEESEEN

### VORSICHT

SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG  
WENN ABDECKUNG GEÖFFNET NICHT DEM  
STRAHL AUSSETZEN

### DANGER

VISIBLE AND INVISIBLE LASER RADIATION WHEN  
OPEN AVOID DIRECT EXPOSURE TO BEAM

### ATTENTION

RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS  
D'OUVERTURE EXPOSITION DANGEREUSE AU  
FAISCEAU

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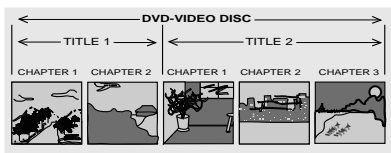
## Philips DVD-Video Introduction

Your Philips DVD-Video player will playback digital video discs conforming to the universal DVD-Video standard. With it, you will be able to enjoy full-length movies with true cinema picture quality, as well as stereo or multi-channel sound (depending on the disc and your playback setup). The unique features of DVD-Video, such as selection of sound track, subtitle languages and different camera angles (again depending on the disc), are all included. In addition to DVD-Video discs, you will be able to playback all Video CDs and Audio CDs (including finalized CD Recordable and CD Rewritable).



### DVD-Video

You will recognize DVD-Video discs by the logo shown. Depending on the material on the disc (a movie, video clips, a drama series, etc.) the disc may have one or more Titles.



### Video CD

You will recognize Video CDs by the logo shown.



### Audio CD

Audio CDs contain music tracks only. You will recognize Audio CDs by their logo shown.



## Unpacking

First check and identify the contents of your DVD-Video player package.

You should have the following items.

- DVD-Video player
- Remote Control with batteries
- AC power cord
- Audio cable
- SCART cable
- Instructions for use

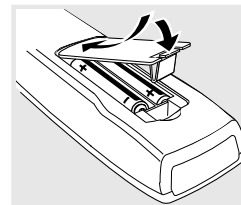
If any item is damaged or missing, contact your retailer or Philips.

Keep the packaging materials; for future transportation..

## Remote control battery installation

- Insert batteries as indicated inside the battery compartment.

**Caution: Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.)**

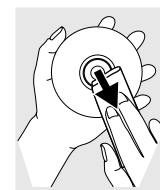


## Safety Information

- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Place the player on a firm, flat surface.
- Keep the player away from domestic heating equipment and direct sunlight.
- In a cabinet, allow about 2.5 cm (1 inch) of free space all around the player for adequate ventilation.
- If the DVD-Video player cannot read CDs/DVDs correctly, use a commonly available cleaning CD/DVD to clean the lens before taking the DVD-Video player to be repaired. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.
- The lens may cloud over when the DVD-Video player is suddenly moved from cold to warm surroundings. Playing a CD/DVD is not possible then. Leave the power on for about one hour with no disc in the unit until normal playback is possible.

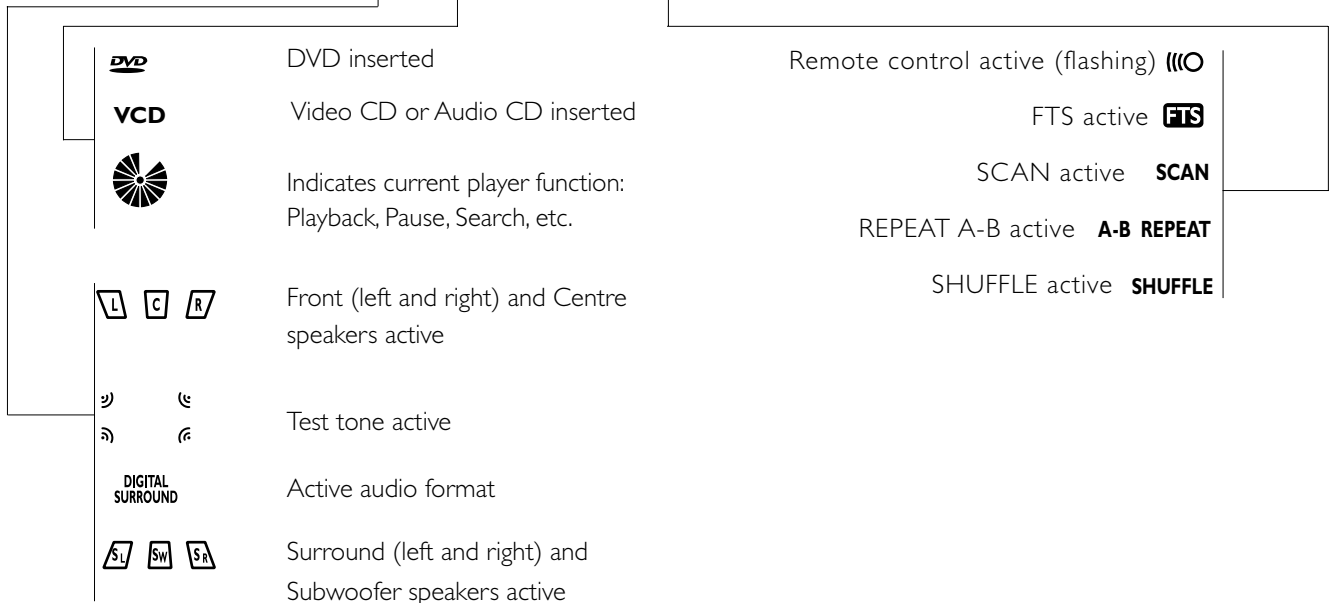
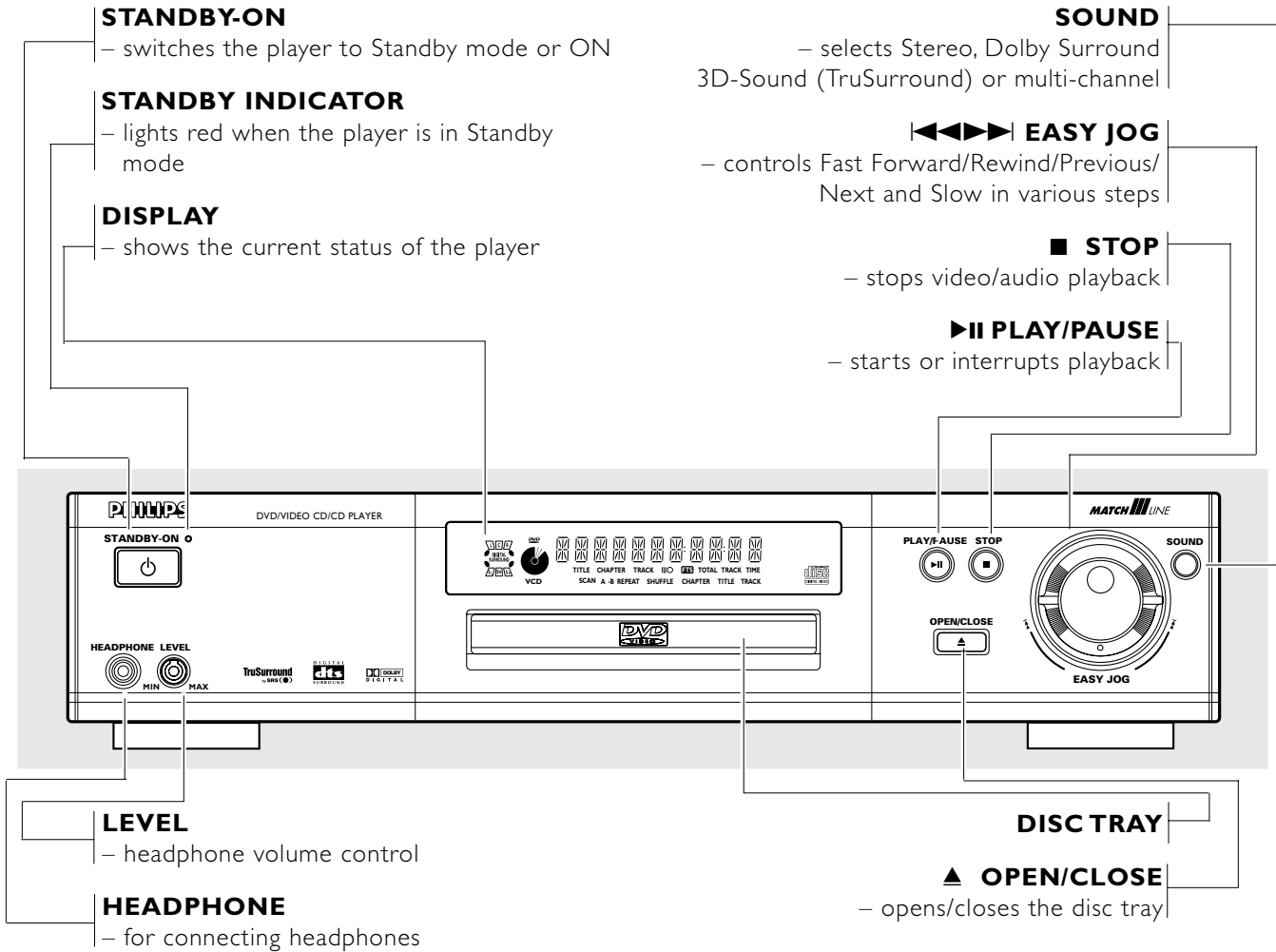
## Cleaning discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.



# Functional Overview

## Front panel and Display



## Remote control

### TV STANDBY

– switches TV to standby/on mode

### TV VOL (+/-)

– to turn TV volume up/down

### PBC (ON/OFF)

– activate/deactivate PBC

### FTS

– activate FTS

### DISC LOCK ( )

– to activate/deactivate an authorised disc

### RESUME

– to continue playback from STOP/PAUSE mode

### TV P (+/-)

– to turn TV program up/down

### DISC MENU

– access menu of a DVD disc

### SYSTEM MENU

– access or remove player's system menu



– (left/right/up/down) cursor movement

### STOP ( )

– to stop playback

### PLAY ( )

– to start playback

### SUBTITLE ( )

– subtitle language selector

### ANGLE ( )

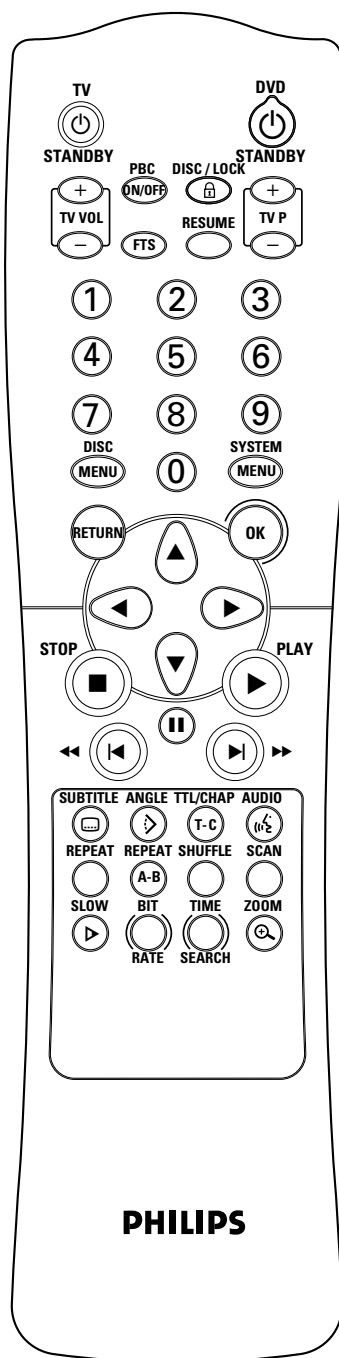
– select DVD camera angle

### TTL/CHAP (T-C)

– select title/chapter

### AUDIO ( )

– audio language selector



### DVD STANDBY

– switches DVD to standby/on mode

### 0-9 numerical key pad

– direct numerical inputs

### RETURN

– go back to previous menu

### OK

– acknowledge menu selection



– search backward\* / previous chapter or track



– pause playback temporarily / frame-by-frame playback



– search forward\* / next chapter or track

### REPEAT

– repeat chapter, track, title, disc

### REPEAT (A-B)

– repeat sequence

### SHUFFLE

– playback tracks in random order

### SCAN

– playback of the first 10 seconds of each track/chapter within a disc

### SLOW ( )

– slow motion

### BIT RATE

– displays bit rate indicator during playback

### TIME SEARCH

– playback at any chosen time on a disc

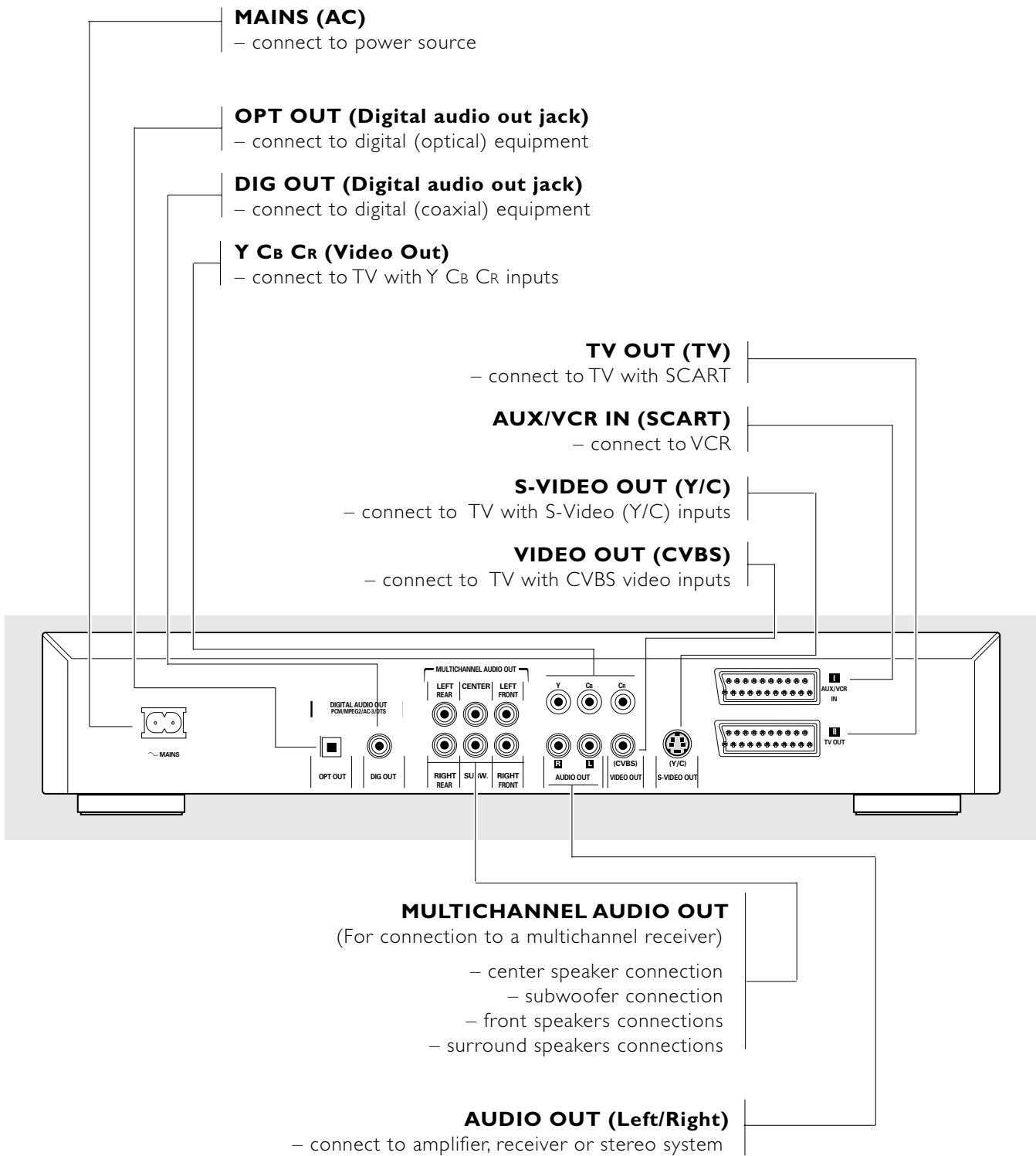
### ZOOM ( )

– enlarge video image

\* Press key for about 2 seconds



# Rear panel



**Caution:** Do not touch the inner pins of the jacks on the rear panel connectors. Electrostatic discharge may cause permanent damage to the unit.

# Preparation

## General notes

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect the player's audio out jacks to the audio in jacks of your amplifier; receiver, stereo or A/V equipment. See 'Connecting to optional equipment'.

### Caution:

- Do not connect the player's audio out jack to the phono in jack of your audio system.
- Do not connect your DVD-player via your VCR. The DVD image could be distorted by the copy protection system.

## Connecting to a TV

- 1 Connect the SCART to the corresponding connector on the TV using the SCART cable supplied (**Z**).

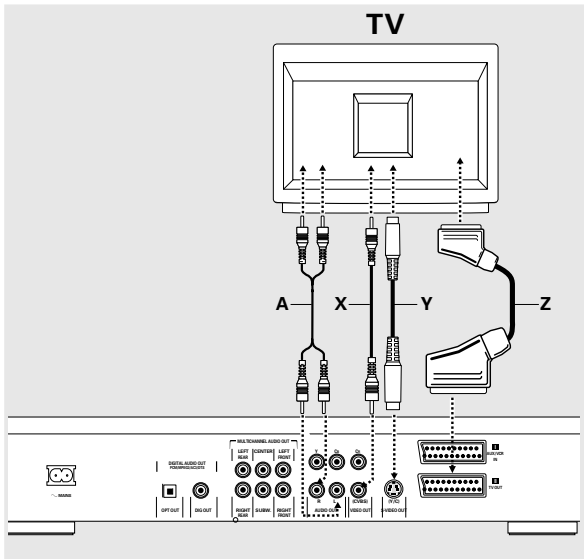
If your TV is not equipped with a SCART you can select one of the following alternative connections:

### S-Video (Y/C) connection

- 1 Connect the S-Video out jack on the DVD-player to the S-Video in jack on the TV using an optional S-Video cable (**Y**).
- 2 Connect the audio Left and Right out jacks to the audio left/right in jacks on the TV (**A**).

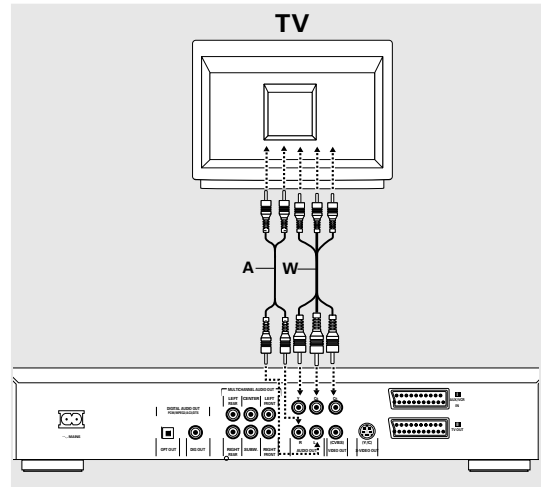
### Video CVBS connection

- 1 Connect the Video out (CVBS) jack to the video in jack on the TV using the video cable supplied (**X**).
- 2 Connect the audio Left and Right out jacks to the audio left/right in jacks on the TV (**A**).



## Component Video (Y Cb Cr) connection

- 1 Connect the Y, Cb, Cr out jacks on the DVD-player to the corresponding jacks on the TV using optional Y, Cb, Cr cable (**W**).
- 2 Connect the audio Left and Right out jacks to the audio left/right in jacks on the TV (**A**).



## Connecting to optional equipment

### Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround

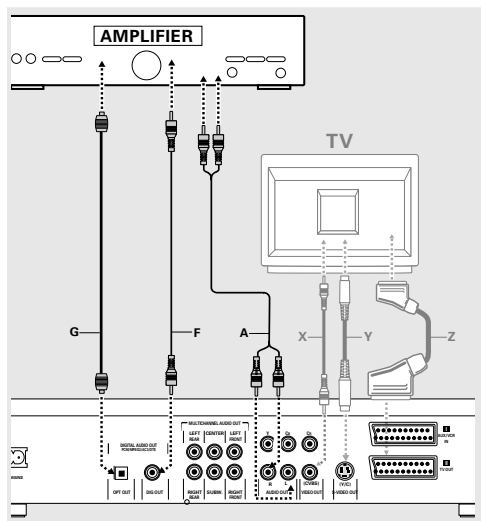
- 1 Connect the audio Left and Right out jacks of the DVD player to the audio left and right in jack on your amplifier; receiver or stereo system, using the optional audio cable (**A**).

### Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an A/V receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2 and DTS)

- 1 Connect the player's digital audio out jack (optical **G** or coaxial **F**) to the corresponding in jack on your amplifier. Use an optional digital (optical **G** or coaxial **F**) audio cable.
- 2 You will need to activate the player's digital output (see 'Personal Preferences').

## Digital Multi-channel sound

Digital multi-channel connection provides the best sound quality. For this you need a multi-channel A/V receiver that supports one or more of the audio formats supported by your DVD player (MPEG 2, Dolby Digital™ and DTS). Check the receiver manual and the logos on the front of the receiver.



### Warning:

**Due to DTS Licensing agreement, the digital output will also be in DTS digital out when DTS audio stream is selected.**

### Note:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- The selected audio format of the DVD is displayed in the Status Window when the SYSTEM MENU is activated or Audio button is activated.
- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the selected audio format of the current DVD in the Status Window, press the SYSTEM MENU or the Audio Language selector button.

## Cinematic (on SCART)

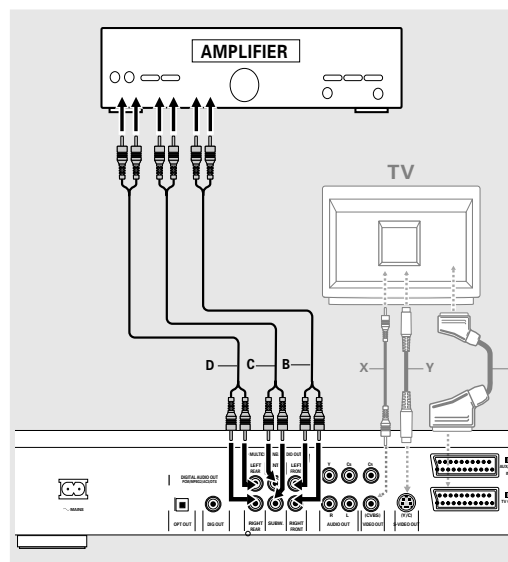
This DVD player is equipped with cinemalink feature (from Philips) which allows a more complete control of your home audio/video (AV) equipment.

Cinematic interconnection plug & playback will enable the AV system to recognise the users intention and automatically switch the necessary controls or input source accordingly. This will reduce the necessity of having multiple control inputs for all AV equipments (eg. TV and Amplifier).

## Analog connection to a multi-channel A/V receiver with 6 CH connectors (Dolby Digital & DTS)

This DVD player contains a multi-channel decoder. This enables playback of DVDs recorded in Multi-channel Surround without the need for an optional decoder:

- 1 Connect the audio out jacks for Center speaker and Subwoofer connection (C) to the corresponding in jacks on your receiver.
- 2 Connect the audio Left and Right out jacks for Front speaker connection (B) to the corresponding in jack sockets on your receiver.
- 3 Connect the audio Left and Right out jacks for Surround speaker connection (D) to the corresponding in jacks on your receiver.
- 4 Make the appropriate Sound settings for Analog Output and Speaker Settings in the Personal Preferences menu.



## NTSC/PAL Settings

You can switch the NTSC/PAL setting of the DVD player to match the video signal of your TV. This setting only affects the television's on-screen display that shows the stop and setup modes. You may select either NTSC or PAL. To change the DVD player setting to PAL or NTSC, follow the steps below.

- 1 Unplug the DVD player from the mains.
- 2 Press and hold **■** and **SOUND**, on the front of the DVD player. While holding **■** and **SOUND**, plug in the mains.
- 3 After PAL or NTSC appears on the display panel of the DVD player, release **■** and **SOUND**, at the same time. The PAL or NTSC that appears on the display panel indicates the current setting.
- 4 To change the setting, press **SOUND**, within three seconds. The new setting (PAL or NTSC) will appear on the display panel.

## General explanation

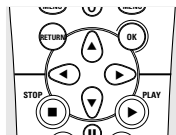
### About this manual

This manual gives the basic instructions for operating the DVD player. Some DVDs require specific operation or allow only limited operation during playback which may not respond to all operating commands. When this occurs, the symbol  $\times$  appears on the TV screen, indicating that the operation is not permitted by the player or the disc.

### Remote control operation

- Unless stated, all operations can be carried out with the remote control. Always point the remote control directly at the player, making sure there are no obstructions in the path of the infrared beam. Corresponding keys on the front panel of the player can also be used.

### Menu bar operation



- A number of operations can be carried out via the menu bar on the screen. The menu bar can be accessed by pressing the cursor keys on the remote control.
- Pressing SYSTEM MENU while the menu bar is displayed will clear the menu bar from the screen.
- The selected item will be highlighted and the appropriate cursor keys to operate will be displayed below the icon.
- < or > indicates that more items are available at the left/right of the menu bar. Press ◀ or ▶ to select these items.

## Initial Setup (Virgin Mode)

### General

In 'Initial Setup' you may have to set your preferences for some of the player's features. (not applicable for all models)

### Operation

After switching on the player for the very first time, the 'Initial Setup Screen' will appear. The menu for the first item to be set is displayed and the first option is highlighted.

- Use the ▼ ▲ keys to go through the options in the menu. The icon of the selected option will be highlighted.
- Use OK to confirm your selection and to go to the next menu.

#### Note:

- Preferences have to be set in the order of which the item menus will appear on the screen.
- The 'Initial Setup' screen will only disappear after the settings for the last item have been confirmed.
- If any keys other than ▼ ▲ or OK are pressed,  $\times$  will appear on the screen.
- If the player is switched off while setting personal preferences, all preferences have to be set again after switching the player on again.

The following items may have to be set in Initial Setup:

### Menu language

You can choose from different languages. The On Screen Menus will be displayed in the language available on the player.

### Audio language

You can choose from different languages. If available on the disc, the player will play the audio in the selected language. If the selected language is not available, speech will revert to the first spoken language on the disc.

### Subtitle language

You can choose from different subtitle languages. If available on the disc, subtitles will be in the language chosen. If the selected language is not available, subtitles will revert to the first subtitle language on the disc.

### TV Shape

If you have a wide screen (16:9) TV, select 16:9.

If you have a regular (4:3) TV, select 4:3.

If you have a 4:3 TV, you can also select between:

Letterbox for a 'wide-screen' picture with black bars top and bottom, or Pan Scan, for a full-height picture with the sides trimmed. If a disc supports the format, the picture will be shown accordingly.

### Country

Select your country. This is used as input for the 'Parental Control' feature (see 'Access Control').

#### Note:















- All these items may have to be set during 'Initial Setup'. After that, they can always be changed in the Personal Preferences Menu.

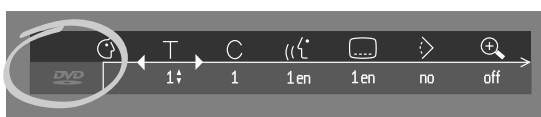
## Menu bar/Status window

	Personal Preferences
	Title/Track
	Chapter/Index
	Audio language
	Subtitle language
	Angle
	Zoom
	Color Settings (Smart Picture)
	Video Program
	Sound
	Picture by Picture
	Slow motion
	Fast motion
	Time search



## Temporary Feedback Field icons






	Scan
	Repeat All
	Repeat Title
	Repeat Track
	Repeat Chapter
	Shuffle
	Shuffle Repeat
	Repeat A to end
	Repeat A-B
	Angle
	Child Lock On
	Child Safe
	Resume
	Action prohibited



## Personal Preferences

You can set your own personal preferences on the player.

### General operation:

- Press SYSTEM MENU on the remote control.
- Select  in the menu bar:  
→ The Personal Preferences menu appears.
- Use the     keys to toggle through the menus, submenus and submenu options.  
→ When a menu item is selected, the cursor keys (on the remote control) to operate the item are displayed next to the item.
- Press OK to confirm and return to the main menu.  
The following items can be adapted:

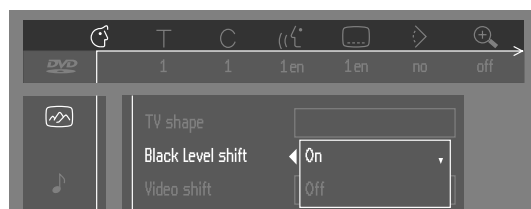
## Picture

### – TV Shape

See 'Initial Setup'

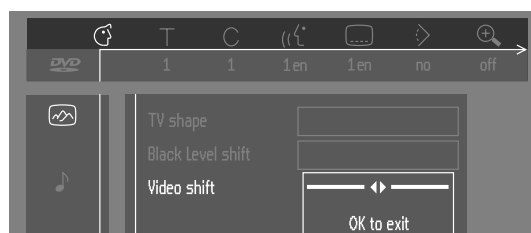
### – Black level shift (NTSC only)

Select ON for adapting the color dynamics to obtain richer contrasts.



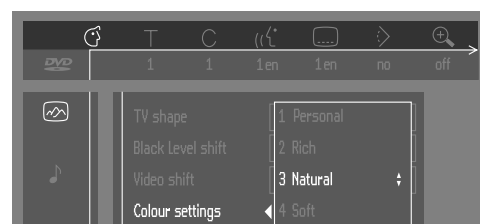
### – Video shift

The factory centers the video on your screen. Use this setting to personalize the position of the picture on your TV by scrolling it to the left or right.



### – Color settings (SCART and Y Cb Cr connection only)

You can select one of five predefined sets of color settings and one set (Personal) which you can define yourself.



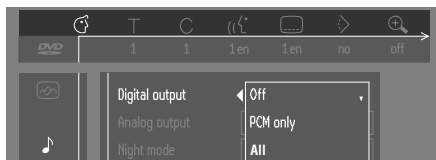
### – Personal color (SCART and Y Cb Cr connection only)

Allows you to fine-tune the selected color settings saturation, brightness and contrast.

## Sound

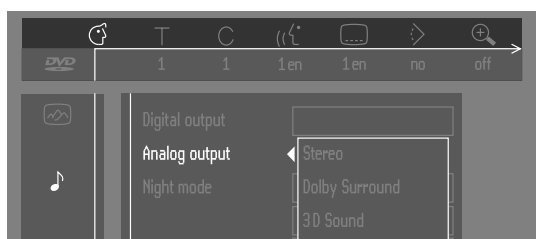
### – Digital output

Factory setting: ALL. This means that both coaxial and optical outputs are switched on. If you are not connecting equipment with a digital input, change the setting to OFF. If your equipment doesn't include a digital multi-channel decoder, set the digital output to PCM (Pulse Code Modulation).



### – Analog output

Select Stereo, Dolby Surround, 3D sound (TruSurround) or multi-channel output to match your system's playback capability.

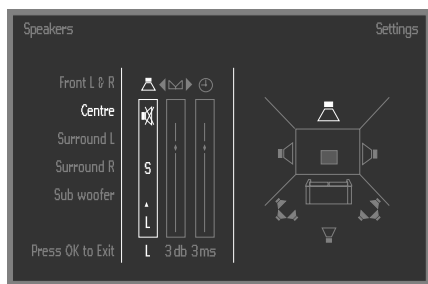


### – Night Mode

Optimizes the dynamics of the sound for low volume playback.

### – Speaker settings

Allows you to select speaker settings, volume balance and delay time and to test the speaker settings. Speaker settings are only active on the Analog Multi-Channel Output. (See appendix)



### – Karaoke vocal

Put this setting to ON only when a multi-channel karaoke DVD is being played. The karaoke channels on the disc will then be mixed into a normal stereo sound.

## Language

Select the required Menu, Audio and Subtitle language. See 'Initial Setup'.

Audio language and Subtitle language can also be adapted via the Menu bar on the screen.

## Features

### – Access Control

Access Control contains the following features:

Child Lock - When Child Lock is set to ON, a 4-digit code needs to be entered in order to playback discs.

Parental control - Allows the conditional presentation of DVDs containing Parental Control information (see 'Access Control').

### – Status Window

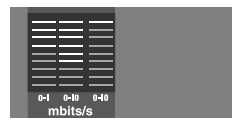
Displays the current status of the player and is displayed with the menu bar. When disc playback is stopped, it is displayed with the 'Temporary Feedback Field' in the default screen. See 'On-Screen Display' information;

Factory setting is ON. Select OFF to suppress display of the Status Window.



### – Bit Rate Indicator

When activated, the bit rate for video, audio as well as total bit rate is displayed. This is only applicable during playback of DVD and SVCD discs.



### – Beeper

The beeper can be set to ON or OFF.

## Loading discs

- 1 Press OPEN/CLOSE on the front of the player to open disc tray.
- 2 Load your chosen disc in the tray, label side up (also when a double sided DVD is inserted).
- 3 Press OPEN/CLOSE again, to close the tray.  
→ **READY** appears in the status window and on the player display, and playback starts automatically.

**Note:**

– If 'Child Lock' is set to ON and the disc inserted is not in the 'child safe' list (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see 'Access Control').

## Playing a DVD-video and Video CD disc



### Playing a disc

- After inserting the disc and closing the tray, playback starts automatically and the status window of the player display shows the type of disc loaded, as well as disc's information and playing time.
- The disc may invite you to select an item from a menu. If the selections are numbered, press the appropriate numerical key; if not, use the **▼/▲, ◀▶** keys to highlight your selection, then press **OK**.
- The currently playing title and chapter number are displayed.
- Playback may stop at the end of the Title, and the may return to the DVD menu. To go on to the next title, press **▶**.
- To stop playback, press **■**.  
→ The default screen will appear, giving information about the current status.
- You can resume playback from the point at which you stopped playback. Press **▶**; when you see the Resume icon **▶** on the screen, press **▶** again.  
→ The RESUME feature applies not only to the disc in the player, but also to the last four discs you have played. Simply reload the disc and press **RESUME** on the remote control or; press **▶** when you see the Resume icon **▶** on the screen, press **▶** again.

**Note:**

– DVDs may be labeled with region code.  
– Your player will not play discs that are labeled with a different region code as your player.

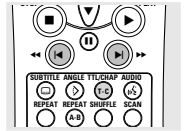
## General features

**Note:**

– Unless stated, all operations described are based on remote control operation. A number of operations can also be carried out via the menu bar on the screen.

### Moving to another title/track

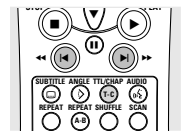
When a disc has more than one title or track, you can move to another title as follows:



- Press **T-C (TTL/CHAP)**, then press **▶** or **◀** briefly during playback to select the next or to return to the beginning of the current title/track.
- Press **◀** twice briefly to step back to the previous title/track.

### Moving to another chapter/index

When a title on a disc has more than one chapter or a track has more than one index, you can move to another chapter/index as follows:



- Press **▶** or **◀** briefly during playback to select the next or to return to the beginning of the current chapter/index.
- Press **◀** twice briefly to step back to the previous chapter/index.
- To go directly to any chapter or index, select **T-C (TTL/CHAP)**, then enter the chapter/index number using the numerical keys (0-9).

**Note:**

– If the number has more than one digit, press the keys in rapid succession.








### Slow Motion

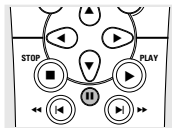


- Select **◀▶ (SLOW MOTION)** in the menu bar.
- Use the **▼** keys to enter the **SLOW MOTION** menu.  
→ The player will now go into **PAUSE** mode.
- Use the cursor keys **◀▶** to select the required speed: -1, -1/2, -1/4 or -1/8 (backward), or +1/8, +1/4, +1/2 or +1 (forward).
- Select 1 to playback at normal speed again.
- If **||** is pressed, the speed will be set to zero (PAUSE).
- To exit slow motion mode, press **▶** and **▲**.

You can also select Slow Motion speeds by using the **▶** button on the remote control.


## Still Picture and Frame-by-frame playback

- Select  (**PICTURE BY PICTURE**) in the menu bar.
  - Use the  key to enter the picture by picture menu.
  - The player will now go into **PAUSE** mode.
  - Use the cursor keys   to select the previous or next picture frame.
  - To exit **PICTURE BY PICTURE** mode, press  or .
- You can also step forward by pressing  repeatedly on the remote control.









## Scan

Plays back the first 10 seconds of each chapter/index on the disc.

- Press **SCAN**.
- To continue playback at your chosen chapter/index, press **SCAN** again or press .



## Search

- Select  (**FAST MOTION**) in the menu bar.
- Use the  keys to enter the **FAST MOTION** menu.
- Use the   keys to select the required speed: -32, -8 or -4 (backward), or +4, +8, +32 (forward).
- Select 1 to playback at normal speed again.
- To exit **FAST MOTION** mode, press  or .

To search forward or backward through different speeds, you can also hold down  or .



## Repeat

### DVD-Video Discs - Repeat chapter/ title/disc

- To repeat the currently playing chapter, press **REPEAT**.
- **REPEAT CHAPTER** appears on the player display.
- To repeat the title currently playing, press **REPEAT** a second time.
- **REPEAT TITLE** appears on the display.
- To repeat the entire disc, press **REPEAT** a third time.
- **REPEAT** appears on the display.
- To exit Repeat mode, press **REPEAT** a fourth time.



### Video CDs - Repeat track/disc

- To repeat the track currently playing, press **REPEAT**.
- **REPEAT TRACK** appears on the player display.
- To repeat the entire disc, press **REPEAT** a second time.
- **REPEAT** appears on display and screen.
- To exit Repeat mode, press **REPEAT** a third time.

## Repeat A-B

To repeat a sequence in a title:

- Press **REPEAT A-B** at your chosen starting point;
- **A-** appears briefly on the screen.
- Press **REPEAT A-B** again at your chosen end point;
- **A-B REPEAT** appears briefly on the display, and the repeat sequence begins. (**A-B REPEAT** is displayed on the front panel of the player)
- To exit the sequence, press **REPEAT A-B**.



## Shuffle

### DVD-Video discs

This shuffles the playing order of chapters within a title, if the title has more than one.

- Press **SHUFFLE** during playback.
- **SHUFFLE** appears on the screen for about 2 seconds.
- To return to normal playback, press **SHUFFLE** again.





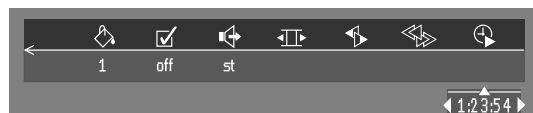
### Video CDs

- Press **SHUFFLE** during playback.
- **SHUFFLE** appears on the screen for about 2 seconds.
- To return to normal playback, press **SHUFFLE** again.

## Time search

The Time Search function allows you to start playing at any chosen time on the disc.

- Select  (**TIME SEARCH**) in the menu bar.
- Press .
- The player will now go into **PAUSE** mode.
- A time edit box appears on the screen, showing the elapsed playing time of the current disc.
- Use the digit keys to enter the required start time. Enter hours, minutes and seconds from left to right in the box.
- Each time an item has been entered, the next item will be highlighted.
- Press **OK** to confirm the start time.
- The time edit box will disappear and playback starts from the selected time position on the disc.



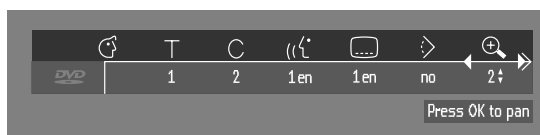


## Zoom

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.



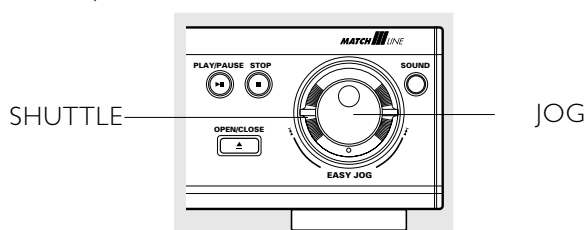
- Select **+** (**ZOOM**).
- Press **▼/▲** to activate the **ZOOM** function and select the required zoom factor: 1.33 or 2 or 4.  
→ The player will go into Pause mode.  
→ The selected zoom factor appears below the Zoom icon in the menu bar and 'Press OK to pan' appears below the menu bar.  
→ The picture will change accordingly.
- Press OK to confirm the selection.  
→ The panning icons appear on the screen.
- Use the **◀▶▼▲** keys to pan across the screen.
- When OK is pressed only the zoomed picture will be shown on the screen.
- To exit **ZOOM** mode:  
– Press **▶** to resume playback or STOP, SYSTEM MENU.



## Easy Jog

**EASY JOG** consists of **JOG** and **SHUTTLE** control which allows you to playback in various steps:

- **In playback mode** - search forward/backward within a chapter/index or move to the next/previous chapter/index.  
→ **SHUTTLE control**: +4x, +8x, +32x, Next (clockwise direction), -4x, -8x, -32x, Previous (anti-clockwise direction).
- **In pause mode** - change playback speed or select next/previous frame-by-frame picture.  
→ **SHUTTLE control**: +1/8x, +1/4x, +1/2x, (clockwise direction), -1/8x, -1/4x, -1/2x, (anti-clockwise direction).  
→ **JOG control**: to select Next Picture Frame (clockwise direction), or Previous Picture Frame (anti-clockwise direction).



## FTS-Video

- The FTS-Video function allows you to store your favorite titles and chapters (DVD) and favorite tracks and indexes (VCD) for a particular disc in the player memory.
- FTS program can contain 20 items (titles, chapters).
- A programmed FTS will be placed on top of the list when playback is activated. When the list is full, a new program added will replace the last program on the list.
- The selections can be selected and played at any time.

### Storing a FTS-Video Program

- In STOP mode, select **VIDEO FTS**  in the menu bar.
- Press **▼** to open the menu.  
→ The **VIDEO FTS** menu appears.
- Press **▶** or **◀** or FTS to select ON or OFF.

### Storing titles/tracks

- Press **▼** to select **TITLES**.
- Use **▶** and **◀** to select the required title.
- Press OK if you wish to store the entire title.  
→ The title number will be added to the list of selections.



### Storing chapters/indexes

- Press **▼** on the selected title number.  
→ The title number will be marked and the highlight moves to the first available chapter number for this title.
- Use **▶** and **◀** to select the required chapter number.
- Press OK to confirm the selection.  
→ The title/chapter selection will be added to the list of selections.
- Press SYSTEM MENU to exit the **VIDEO FTS**  menu.

### Erasing a FTS-Video Program

- In STOP mode, select **VIDEO FTS**  in the menu bar.
- Use **▼** to select **PROGRAM**.
- Use **▶** and **◀** to select the required selection number.
- Press OK to erase the selection.
- Press SYSTEM MENU to exit.

### If you wish to erase all selections:

- In STOP mode, select **VIDEO FTS**  in the menu bar.
- Use **▼** to select **CLEAR ALL**.
- Press OK.  
→ All selections will now be erased.
- Press SYSTEM MENU to exit.

## Special DVD features

### Checking the contents of DVD-Video discs: Menus

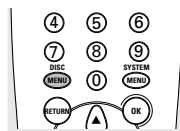
DVDs may contain menus to navigate the disc and access special features. To use the menu, press the appropriate numerical key; or use the **▼**, **▲**, **▶**, **◀** keys to highlight your selection, then press OK.

#### Title menus

- Press DISC MENU.  
→ If the current title has a menu, the menu will appear on the screen otherwise, the disc menu will be displayed.
- The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- To remove the title menu, press DISC MENU again.

#### Disc menu

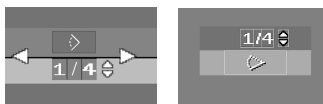
- Press T-C then press DISC MENU.  
→ The disc menu is displayed.
- To remove the disc menu, press T-C, then press DISC MENU.



#### Camera Angle

If the disc contains sequences recorded from different camera angles, the angle icon appears, showing the number of available angles and the angle being shown currently. You can then change the camera angle if you wish.

- Use the **▼**/**▲** keys to select the required angle icon.  
→ After a while, playback changes to the selected angle. The angle icon remains displayed until multiple angles are no longer available.



#### Changing the audio language

- Select **⌂** (**AUDIO**) in the menu bar.
- Press **⌂** or **▼**/**▲** repeatedly to see the different languages.



#### Subtitles

- Select **⌂** (**SUBTITLE**) in the menu bar.
- Press **⌂** or **▼**/**▲** repeatedly to see the different subtitles.



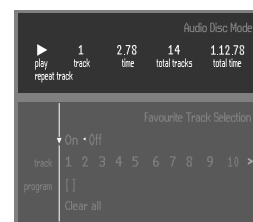
## Special VCD-Features

### Playback Control (PBC)

- Load a Video CD with PBC and press **▶**.
- Go through the menu with the keys indicated on the TV screen until your chosen passage starts to playback. If a **PBC** menu consists of a list of titles, you can select a title directly.
- Enter your choice with the numerical keys (0-9).
- Press RETURN to go back to the previous menu.
- You may also set to **PBC OFF** under Personal Preferences.

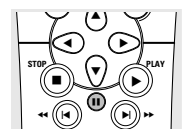
### Playing an audio CD

- After loading the disc, playback starts automatically.
- If the TV is on, the Audio CD screen appears.
- The number of tracks and the total playing time will be shown on the screen.
- During playback, the current track number and its elapsed playing time will be shown on the screen and on the player display.
- Playback will stop at the end of the disc.
- To stop playback at any other time, press **■**.



### Pause

- Press **⏸** during playback.
- To return to playback, press **▶**.



### Search

- To search forward or backward through the disc at four times normal speed, hold down **◀** or **▶** for about one second during playback.  
→ Search begins, and sound is partially muted.
- To step up to eight times the normal speed, press **◀** or **▶** again.  
→ Search goes to eight times the speed, and the sound is muted.
- To return to four times the normal speed, press **◀** or **▶** again.
- If the TV is on, search speed and direction are indicated on the screen each time **◀** or **▶** is pressed.
- To end the search, press **▶** to resume playback or **■** to stop.



## Moving to another track

- Press ► or ◀ briefly during playback to go to the next or to return to the beginning of the current track.
- Press ◀ twice briefly to step back to the previous track.
- To go directly to any track, enter the track number using the numerical keys (0-9).



## Shuffle

- Press SHUFFLE during playback.  
→ The order of the tracks is changed.
- To return to normal playback, press SHUFFLE again.



## Repeat track/disc

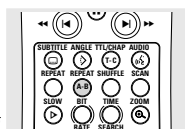
- To repeat the track currently playing, press REPEAT.  
→ **REPEAT TRACK** appears on the display.
- To repeat the entire disc, press REPEAT a second time.  
→ **REPEAT** appears on the display.
- To exit Repeat mode, press REPEAT a third time.



## Repeat A-B

To repeat a sequence:

- Press REPEAT A-B at your chosen starting point;  
→ **A-** appears on the player display.
- Press REPEAT A-B again at your chosen end point;  
→ **A-B** appears on the display, and the sequence begins to playback repeatedly.
- To exit the sequence, press REPEAT A-B again.



## Scan

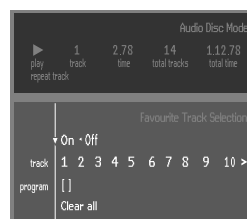
Plays back the first 10 seconds of each track on the disc.

- Press SCAN.
- To continue playback at your chosen chapter/index, press SCAN again or press ►.



## FTS Program

- FTS Program allows you to store your favorite tracks for a particular disc in the player memory.
- Each FTS Program can contain 20 tracks.



## Storing an FTS Program

- 1 Load a disc and stop playback.
- 2 Use ▼ to go to the list of available tracks.
- 3 Use ► or ◀ to select tracks from the list.  
To go directly to any track, enter the track number using the numerical keys (0-9).
- 4 Store each track by pressing OK.  
→ The track numbers will be added to the list.  
→ The number of tracks and the playing time of the program will be shown on the screen and the player display.

When your FTS Program is complete, press ► to start playback, or ▲ to go back to Stop mode. In either case, the FTS Program will be automatically memorized.

## Switching FTS ON/OFF

- 1 Use ▲ ▼ to move to the top.
- 2 Use ► or ◀ to select either ON or OFF.

## Erasing a track from an FTS Program

- 1 Use ▼ to go to the list of selected tracks.
- 2 Use ► and ◀ to select the track number you wish to erase.
- 3 Press OK.  
→ The track number will be erased from the list of selected tracks.

## Erasing the complete program

- 1 Use ▼ to select **CLEAR ALL**, then press OK.  
→ The complete FTS Program for the disc will be erased.

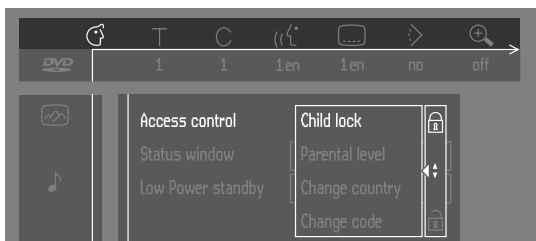
## Access control; child lock (DVD and VCD)

### Activating/deactivating the child lock

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using the ▼/▲ keys.
  - Alternatively, you can press **DISC LOCK** on the remote control if the child lock has been activated.
- 2 Enter a 4-digit code of your own choice.
- 3 Enter the code a second time.
- 4 Move to **"CHILD LOCK"** using the ▼/▲ keys.
- 5 Move to **LOCK/UNLOCK** using the ► key.
- 6 Select **LOCK** using the ▼/▲ keys.
- 7 Press OK or ◀ to confirm, then press ◀ again to exit the menu.
  - Now unauthorized discs will not be played unless the 4-digit code is entered.
- 8 Select **UNLOCK** to deactivate the **CHILD LOCK**.

*Note: Confirmation of the 4-digit code is necessary when:*

- The code is entered for the very first time (see above),
- The code is changed (see 'Changing the 4-digit code'),
- The code is cancelled (see 'Changing the 4-digit code').

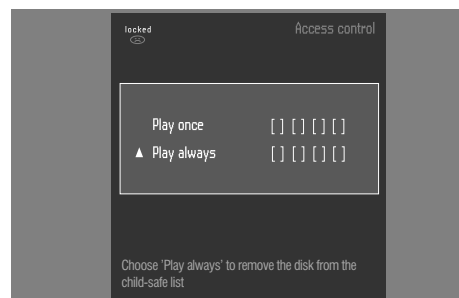


### Authorizing discs

- Insert the disc. See 'Loading disc'.
  - The 'child protect' dialog will appear.You will be asked to enter your secret code for 'Playback Once' or 'Playback Always'. If you select 'Playback Once', the disc can be played as long as it is in the player and the player is ON. If you select 'Playback Always', the disc will become child safe (authorized) and can always be played, even if the Child Lock is set to ON.

*Notes:*

- The player memory maintains a list of 120 authorized ('Child safe') disc titles. A disc will be placed in the list when 'Playback Always' is selected in the 'child protect' dialog.
- Each time a 'child safe' disc is played, it will be placed on top of the list. When the list is full and a new disc is added, the last disc in the list will be removed from the list.
- Double sided DVDs may have a different ID for each side. In order to make the disc 'child safe', each side has to be authorized.
- Multi-volume VCDs may have a different ID for each volume. In order to make the complete set 'child safe', each volume has to be authorized.



### Deauthorizing discs

- Insert the disc. See 'Loading disc'.
  - Playback starts automatically.
- Press ■ while ☺ is visible.
  - The ☹ will appear and the disc is now deauthorized.

## Access control; Parental control (DVD-Video only)

Movies on DVDs may contain scenes not suitable for children. Therefore, disc may contain 'Parental Control' information which applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternative, more suitable scenes are available on the disc. Ratings are country dependent. The 'Parental Control' feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



## Activating/Deactivating Parental Control

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using the ▼/▲ keys.
- 2 Enter your 4-digit code. If necessary, enter the code a second time.
- 3 Move to Parental Control using the ▼/▲ keys.
- 4 Move to **VALUE ADJUSTMENT** (1-8) using the ► key.
- 5 Then use the ▼/▲ keys or the numerical keys on the remote control to select a rating from 1 to 8 for the disc inserted.

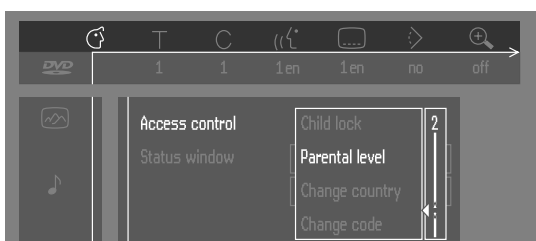
### Rating 0 (displayed as '—'):

Parental Control is not activated. The Disc will be played in full.

### Ratings 1 to 8:

The disc contains scenes not suitable for children. If you set a rating for the player, all scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop and the 4-digit code has to be entered.

- 6 Press OK or ◀ to confirm, then press ◀ again to exit the menu.



## Country

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using the ▼/▲ keys.
- 2 Enter the 4-digit code.
- 3 Move to **CHANGE COUNTRY** using the ▼ key.
- 4 Press the ► key.
- 5 Select a country using ▼/▲.
- 6 Press OK or ◀ to confirm, then press ◀ again to exit the menu.

## Changing the 4-digit code

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using the ▼/▲ keys.
- 2 Enter the old code.
- 3 Move to **CHANGE CODE** using the ▼ key.
- 4 Press the ► key.
- 5 Enter the new 4-digit code.
- 6 Enter the code a second time and reconfirm by pressing OK.
- 7 Press ◀ to exit the menu.

## If you forget your 4 digit code

- 1 Press ■ to exit 'Child Protect' screen.
- 2 Select **ACCESS CONTROL** in the features menu using the ▼/▲ keys.
- 3 The 4-digit code can be cancelled by pressing ■ four times in the 'Access Control' dialog.
- 4 You can then enter a new code (twice!) as described above (Changing the 4 digit code).

## Parental Control Disclaimer

This DVD player features the **PARENTAL CONTROL** system which is intended to activate when playing DVD discs furnished with certain software coding. This is according to technical standards adopted by the set maker and disc content industries.

Please note that the **PARENTAL CONTROL** system will not operate a DVD disc which is not furnished with the appropriate software coding. Also note that at the time of release of this DVD player, certain aspects of the technical standards had not been settled between set makers and the disc industries.

On this basis Philips cannot guarantee the functioning of **PARENTAL CONTROL** system and denies any liability associated with unintended watching of disc content. If in doubt, please make sure the disc playbacks according to your **PARENTAL CONTROL** settings before you allow children access.

# Before Requesting Service

If it appears that the DVD-Video player is faulty, first consult this checklist. It may be that something has been overlooked. Under no circumstances attempt to repair the system yourself; this will invalidate the warranty.

Look for the specific symptom(s). Then perform only the actions listed to remedy the specific symptom(s).

Symptom	Remedy
<b>No power</b>	<ul style="list-style-type: none"><li>– Make sure the mains cord (AC) is properly connected.</li><li>– Check if there is power at the AC outlet by plugging in another appliance.</li></ul>
<b>No picture</b>	<ul style="list-style-type: none"><li>– Check if the TV is switched on.</li><li>– Check the video connection.</li></ul>
<b>Distorted picture</b>	<ul style="list-style-type: none"><li>– Check the disc for fingerprints and clean with a soft cloth, wiping from center to edge.</li><li>– Sometimes a small amount of picture distortion may appear. This is not a malfunction.</li></ul>
<b>Completely distorted picture or no color with player menu.</b>	<ul style="list-style-type: none"><li>– If the picture is distorted completely or if the picture rolls vertically, make sure the NTSC/PAL setting at the DVD player matches the video signal of your television.</li><li>– If your TV video signal is NTSC, select the NTSC setting at the DVD player.</li><li>– If your video signal is PAL, select the PAL setting - see NTSC/PAL SETTINGS.</li></ul>
<b>Distorted or Black/White picture with DVD or Video CD.</b>	<ul style="list-style-type: none"><li>– The disc format does not match your TV's video signal (PAL/NTSC).</li></ul>
<b>No sound</b>	<ul style="list-style-type: none"><li>– Check audio connections.</li><li>– If you are using a HiFi amplifier, try another sound source.</li></ul>
<b>Distorted sound from HiFi amplifier.</b>	<ul style="list-style-type: none"><li>– Check to make sure that no audio connections are made to the amplifier phono input.</li></ul>
<b>No audio at digital output.</b>	<ul style="list-style-type: none"><li>– Check the digital connections.</li><li>– Check the settings menu to make sure the digital output is set to ALL or PCM.</li><li>– Check if the audio format of the selected audio language matches your receiver capabilities.</li></ul>
<b>Disc can't be played.</b>	<ul style="list-style-type: none"><li>– Ensure the disc label is facing up.</li><li>– Clean the disc.</li><li>– Check if the disc is defective by trying another disc.</li><li>– Check to see if the disc is defective, badly scratched or warped (not flat)</li></ul>
<b>No return to start-up screen when disc is removed.</b>	<ul style="list-style-type: none"><li>– Reset by switching the player off, then on again.</li><li>– Check to see if the program requires another disc to be loaded.</li></ul>
<b>The player does not respond to the remote control.</b>	<ul style="list-style-type: none"><li>– Aim the remote control directly at the sensor on the front of the player.</li><li>– Remove any obstacles between the player and the remote control.</li><li>– Inspect or replace the batteries in the remote control.</li></ul>
<b>Buttons do not work.</b>	<ul style="list-style-type: none"><li>– In order to completely reset the player, unplug the AC cord from the AC outlet. (Please ensure that the set is not in Initial Setup mode)</li></ul>
<b>Player does not respond to some operating commands during playback.</b>	<ul style="list-style-type: none"><li>– Operations may not be permitted by the disc. Refer to the instructions of the disc.</li></ul>
<b>DVD-Video player cannot read CDs/DVDs</b>	<ul style="list-style-type: none"><li>– Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD-Video player for repaired.</li></ul>

## Speaker Settings

### 6 Channel settings

#### Front speaker

- L (Large): When the front speakers can reproduce low frequency signals below 120Hz
- S (Small): When the front speakers cannot produce low frequency signals below 120Hz

#### Center Speaker\*

- L (Large): When the center speaker can reproduce low frequency signals below 120Hz
- S (Small): When the center speaker cannot produce low frequency signals below 120Hz
- Off: When the center speaker is not connected

#### Surround speakers

- L (Large): When the surround speakers can reproduce low frequency signals below 120Hz
- S (Small): When the surround speakers cannot produce low frequency signals below 120Hz
- Off: When the surround speakers are not connected

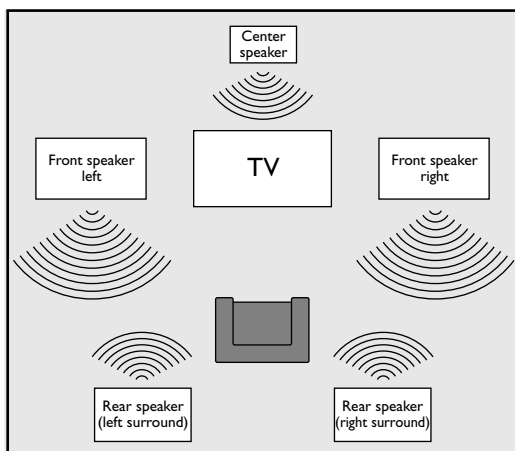
#### Subwoofer

- On: When you connect a subwoofer
- Off: When a subwoofer is not connected

*\*You can use your TV as center speaker. When center speaker is turned on, the audio L/R as well as the audio from the scart will contain the center speaker audio.*

#### Note:

– Certain speaker settings are prohibited by the Dolby Digital licencing agreement.

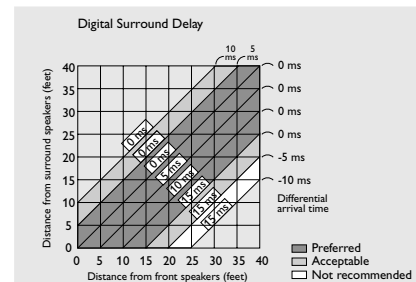


## Delay times

The DVD player is set to reproduce correctly synchronized Digital Surround Sound in a listening area where the surround speakers are about 150cm nearer to the listening position than the front speakers, and the center speaker is in line with the front speakers. To adjust for other listening area arrangements, adapt delay times according to the following:

### Digital Surround

Measure the distances in centimeters from the front speaker plane and from the surround speaker plane to the listening positioning plane. Subtract the surround distance from the front distance and divide by 30. The result is the required Surround Channel delay time in milliseconds. If the center speaker is on the front speaker plane, no center speaker delay is needed. If, however, it is nearer the listening position, measure the distance in centimeters between the front and center speaker planes, and divide by 30. The result is the required Center Channel delay time in milliseconds.



# Specification

## PLAYBACK SYSTEM

DVD-Video  
Video CD  
CD (CD-R and CD-RW)  
DVD+RW

## OPTICAL READOUT SYSTEM

Lasertype	Semiconductor AlGaAs	
Numerical Aperture	0.60 (DVD) 0.45 (VCD/CD)	
Wavelength	650 nm (DVD) 780 nm (VCD/CD)	

## DVD DISC FORMAT

Medium	Optical Disc	
Diameter	12cm (8cm)	
Playing time (12cm)	One layer	2.15 h*
	Dual layer	4 h*
	Two side	4.30 h*
	Single layer	
	Two side	8 h*
	Dual layer	

## VIDEO FORMAT

DA Converter	10 bits
Signal handling	Components
Digital Compression	MPEG2 for DVD, MPEG1 for VCD

## TV STANDARD

	(PAL/50Hz)	(NTSC/60Hz)
Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

## DVD

Horiz. Resolution	720 pixels	720 pixels
Vertical Resolution	576 lines	480 lines

## VCD

Horiz. Resolution	352 pixels	352 pixels
Vertical Resolution	288 lines	240 lines

## VIDEO PERFORMANCE

Video output	1 Vpp into 75 ohm
S-Video output	Y: 1 Vpp into 75 ohm C: 0.3 Vpp into 75 ohm
Y C <sub>B</sub> C <sub>R</sub> (YUV) output	Y: 1 Vpp into 75 ohm C <sub>B</sub> C <sub>R</sub> : 0.7 Vpp into 75 ohm
RGB (SCART) output	0.7 Vpp into 75 ohm
Black Level Shift	On/Off
Video Shift	Left/Right

## AUDIO FORMAT

Digital	MPEG DTS/Dolby Digital PCM	Compressed Digital  16, 20, 24 bits fs, 44.1, 48, 96 kHz
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Analog Sound Stereo  
2 channel downmix from DTS multi-channel sound  
Dolby Pro Logic downmix from Dolby Digital multi-channel sound  
Full decoding of Dolby Digital and DTS multi-channel surround sound  
3D Sound (TruSurround) for virtual 5.1 channel sound on 2 speakers

## AUDIO PERFORMANCE

DA Converter	24 bits	
DVD	fs 96 kHz	4 Hz - 44 kHz
	fs 48 kHz	4 Hz - 22 kHz
Video CD	fs 44.1 kHz	4 Hz - 20 kHz
CD	fs 44.1 kHz	4 Hz - 20 kHz
Signal-Noise (1kHz)	103 dB	
Dynamic Range (1kHz)	100 dB	
Crosstalk (1kHz)	113 dB	
Distortion and Noise (1kHz)	92 dB	
Headphone	30mW at 32 Ohm load, headphone imp. 8-2k Ohm	

## CONNECTIONS

SCART	SCART 2x
Y Output	Cinch (green)
U (C <sub>B</sub> ) Output	Cinch (blue)
V (C <sub>R</sub> ) Output	Cinch (red)
S-Video Output	Mini DIN, 4 pins
Video Output	Cinch (yellow)
Audio L+R output	Cinch (white/red)
<b>6 Channel Analog Output</b>	
Audio Front Left/Right	Cinch (white/red)
Audio Surround Left/Right	Cinch (white/red)
Audio Centre	Cinch (blue)
Audio Subwoofer	Cinch (black)
Digital Output	1 coaxial, 1 optical IEC958 for CDDA / LPCM IEC1937 for MPEG1/2, AC-3 and Dolby Digital on SCART
Cinematick	Headphone
Headphone	6.3 mm Jack

## CABINET

Dimensions (w x h x d)	435 x 100 x 321mm
Weight	Approx. 4 Kg

## GENERAL FUNCTIONALITY

Stop / Play / Pause  
Fast Forward / Backward  
Time Search  
Step Forward / Backward  
Slow Motion  
Title / Chapter / Track Select  
Skip Next / Previous  
Repeat (Chapter / Title / All) or (Track / All)  
A-B Repeat  
Shuffle  
Scan  
Enhanced ease of use graphical interface  
Perfect Still with digital multi-tap filter  
Zoom (x1.33, x2, x4) with picture enhancement  
Smart Picture (Personal Colour Settings)  
Cinematick interconnection for plug&play  
3D Sound (TruSurround)  
5.1 Channels user defined speaker settings  
Easy Jog  
Audio and video bit rate indicator  
Beeper

## DVD FUNCTIONALITY

Multi-angle Selection  
Audio Selection (1 out of max. 8 languages)  
Subtitles Selection (1 out of max. 32 languages)  
Aspect Ratio conversion (16:9, 4:3 Letterbox, 4:3 Pan Scan)  
Parental Control and Disk Lock  
Disc Menu support (Title Menu and Root Menu)  
Resume (5 discs) after stop / standby  
Programming Titles/chapters with Favorite Selection

## VIDEO CD FUNCTIONALITY

Playback Control for VCD 2.0 discs  
Disc Lock  
Resume (5 discs) after stop / standby  
Programming Tracks with Favorite Selection

## AUDIO CD FUNCTIONALITY

Time Display (Total / Track / Remaining Track Time)  
Full audio functionality with remote control  
Programming with Favorite Track Selection

\* typical playing time for movie with 2 spoken languages and 3 subtitle languages.

**Specifications subject to change without prior notice**