

DVD Video / SACD Player  
Owner's Manual



*Let's make things better.*



**PHILIPS**

# Important Note

---

## 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.

## S

Klass 1 laserapparat

### Varning!

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

### Observera!

Strömbrytaren POWER är sekundärt kopplad och inte bryter strömmen från nätet. Den inbyggda nät delen 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.

# 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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# General Information

## 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 GaAIAs
Wave length	650 nm (DVD) 780 nm (VCD/CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

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*"DTS" and "DTS DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.*

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 962SA

Serial No. \_\_\_\_\_

### CAUTION

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM

### ADVARSEL

SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING  
UNDGÅ UDSÆTTELSE FOR STRÅLING

### 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

### ATTENTION

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

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

The region code for this DVD Video Player is 2.



Since DVD movies are 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 into your player, you will see the region code notice on the screen. The disc will not play and should be unloaded.

**NOTE:  
PICTURES SHOWN MAY BE DIFFERENT  
BETWEEN COUNTRIES.**

**CAUTION  
VISIBLE AND INVISIBLE RADIATION WHEN  
OPEN. AVOID EXPOSURE TO BEAM.  
(WARNING LOCATION: ON THE BACKPLATE  
OF SET)**

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

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## Reality reproduced: Super Audio CD

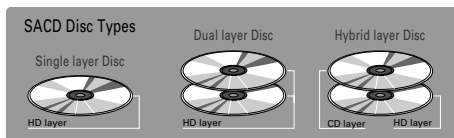
The future in digital sound reproduction is no longer limited to a closely simulating of reality. The new audio standard IS reality! The human ear is no longer capable of distinguishing audible reality from digital reproduction. At Philips the future starts today with the Super Audio Compact Disc player. This Super Audio CD player combines superior sound quality with the possibility of playing almost all existing audio and video formats with a single player. Your precious CD collection retains its value!

The Super Audio standard is based on Direct Stream Digital (DSD) technology. This new direct-stream digital format comprises a 1-bit system that has a digital sampling frequency that is 64 times higher than that of conventional audio CD. The results are spectacular: a frequency response of over 50k Hz and a 120dB dynamic range over the entire audible spectrum. Mixed with as many of the original frequencies as possible, the audio information audible for human ears sounds much more natural. All audible frequencies are, after all, embedded in the frequency range as emitted by the sound source. A better reproduction does not exist! For the first time your ears will relive reality.

## The next standard: hybrid disc

The Super Audio CD is the evolution of the CD that provides ultra-high-quality sound. Additional features, including multi-channel, can be offered. On the high density (HD) Super Audio CD you may have access to separate areas, containing two-channel stereo and multi-channel.

But that is not all! The hybrid version of the SACD guarantees backward compatibility with the installed base of CD and DVD players. In addition to the HD layer, the hybrid disc contains a standard density CD layer with conventional two-channel stereo CD audio information. The two layers are read from the same side of the disc. The HD layer is read by and DVD laser. The bottom reflective layer with conventional CD sound is read by the CD laser through the second, semi-transmissive HD layer.



## SACD: reality in sound...and vision

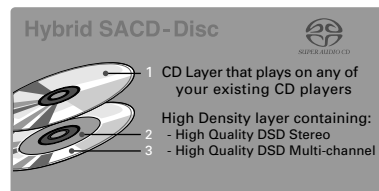
This SACD player will not only surprise you with its superior reproduction of almost all existing audio formats. Connected to your TV, your SACD player presents VCD and DVD-video information as perfect digital studio-quality images with truly 3-dimensional digital multi-channel audio. Story sequences can be screened from your own choice of camera angle. You can break down language barriers with sound tracks in as many as eight languages, plus - if available on disc - as many as 16 subtitling languages. Video becomes a new experience. That makes the SACD player an essential component in a state-of-the-art audio-video system.

## Super Audio CD

You will recognize Super Audio CDs by the logo. There are three types of Super Audio CDs: single-layer, dual-layer and hybrid discs. Each type may contain two areas of recorded information: a High Quality Stereo area and a High Quality Multi-channel area.

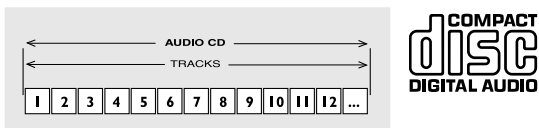
- The single layer disc may contain both information areas.
- The dual layer disc may contain both information areas but a double amount of information can be stored on the disc thanks to the second layer.
- The hybrid disc may contain not only both information areas but also a second, standard CD layer, making it playable on standard CD players.

Recorded information may vary per area. This is indicated in the disc inlay. Areas can be selected separately before or during playback, while playing Super Audio CDs via the remote control or via the On-Screen Display on your TV.



## Audio CD (CDDA)

Audio CDs contain music tracks only. You will recognise these CDs by their logo. You can play them in conventional style through a stereo system, using the keys on the remote control and/or front panel, or via the TV using the On-screen Display (OSD).



### Note:

– Please note that the DTS audio format is only supported on DVD. This product does not support the playback of DTS encoded CDs.

## Digital video

DVD-Video uses state-of-the-art MPEG 2 data compression technology to register an entire movie on a single 5-inch disc. DVD's variable bitrate compression, running at up to 9.8 Mbits/second, captures even the most complex images in their original quality.

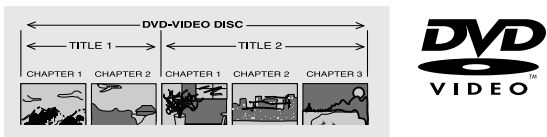
The crystal-clear digital images have a horizontal resolution of over 500 lines, with 720 pixels (picture elements) to each line. The resolution is more than double that of VHS, superior to Laser Disc, and entirely comparable with digital masters made in recording studios.

DVD-Video discs conform to either the PAL or NTSC video standard. This dual-standard player can play both types, and presents them in the best possible way on your multi-standard TV screen.

As the universal video system of the future, DVD-Video offers optimal images on any TV screen.

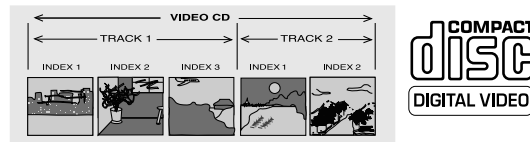
## DVD Video

You will recognize DVD-Video discs by the logo. Depending on the material on the disc (a movie, video clips, a drama series, etc.), these discs may have one or more Titles, and each Title may have one or more Chapters. To make access easy and convenient, your player lets you move between Titles and between Chapters.



## Video CD

You will recognize Video CDs by the logo. Depending on the material on the disc (a movie, video clips, a drama series, etc.), these discs may have one or more tracks, and tracks may have one or more indexes, as indicated on the disc case. To make access easy and convenient, your player lets you move between tracks and between indexes.



## Unpacking

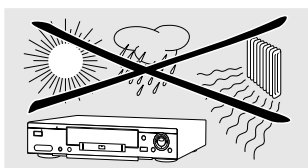
First check and identify the contents of your SACD player package, as listed below:

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

If any item is damaged or missing, please inform your supplier immediately.

Save the packaging materials; you may need them to transport your player in future.

## Placement



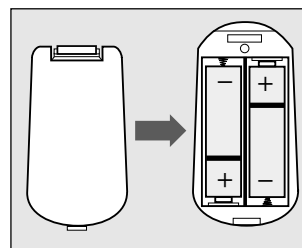
- Place the player on a firm, flat surface.
- Keep the player away from domestic heating equipment and direct sunlight.
- In a cabinet, allow about 2.5 cm (1 inch) of free space all around the player for adequate ventilation.
- If the SACD player cannot read SACDs/CDs/DVDs/VCDs correctly, use a commonly available cleaning CD/DVD to clean the lens before taking the SACD player to be repaired. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.
- When it is moved from a cold to a warm environment, allow the SACD player to acclimatize for at least 2 hours in order to avoid damage. When suddenly placed in a warm environment, the lens may cloud over. Playing an SACD/CD/DVD will not be possible then. Wait until moisture evaporates.

## Infrared remote control

### Loading the batteries

- 1 Open the battery compartment cover.
- 2 Insert two 'AA' (LR-6) batteries as indicated inside the battery compartment.
- 3 Close the cover.

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





# Functional Overview

## Front and Rear Panels

### POWER ON/OFF

– switches the player on/off

### Disc Loading Tray

### DISPLAY

– display the current status of the player

### II PAUSE

– interrupts audio/video playback or moves to the next frame

### ■ STOP

– stops audio/video playback

### AUDIO DIRECT

– shut down video circuitry to have better audio quality

### ▶▶ NEXT

– selects next track/title/chapter/index

### ▶ PLAY

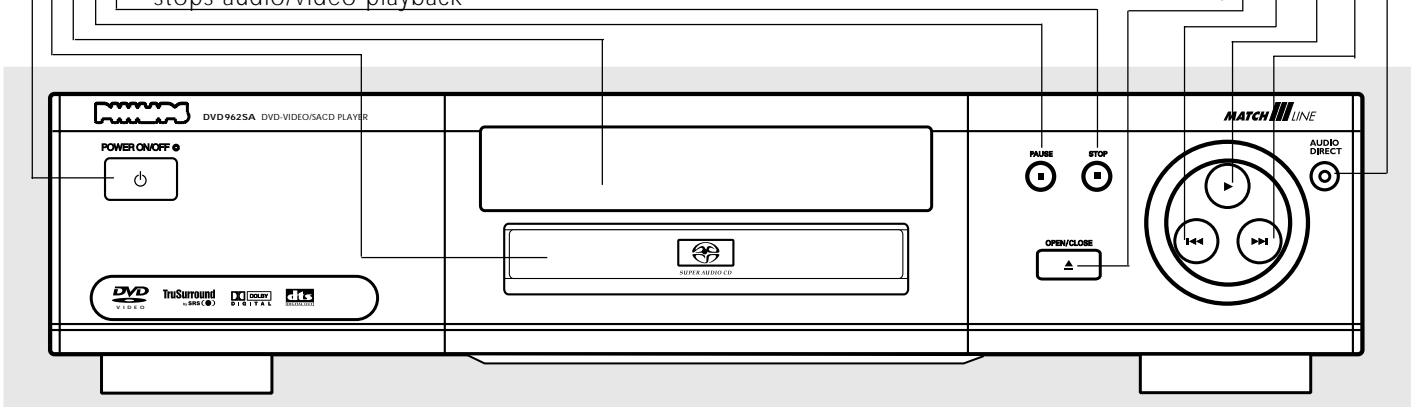
– starts audio/video playback

### ◀◀ PREV

– selects previous track/title/chapter/index or return to beginning of current track/title/chapter/index

### ▲ OPEN/CLOSE

– opens/closes the disc tray



### MAINS (AC Power)

– connect to power source

### COAXIAL (Digital audio out)

– connect to digital (coaxial) audio equipment

### OPTICAL (Digital audio out)

– connect to digital (optical) audio equipment

### MULTICHANNEL AUDIO OUT

(For connection to a multichannel receiver)

– center speaker, subwoofer, front and surround speakers connection

### AUDIO OUT (Left/Right)

– connect to an amplifier, receiver or stereo system

### TV OUT (SCART)

– connect to a TV with SCART

### S-VIDEO OUT

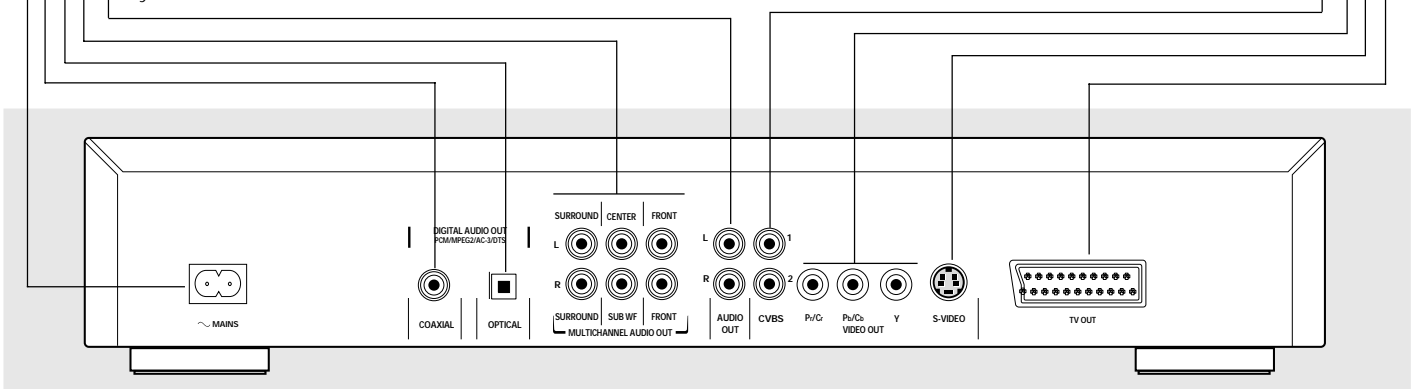
– connect to a TV with S-Video inputs

### Pr/Cr Pb/Cb Y VIDEO OUT

– connect to a TV with Pr/Cr Pb/Cb Y inputs

### CVBS VIDEO OUT

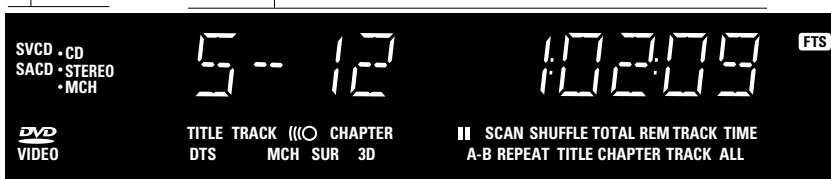
– connect to a TV with CVBS video inputs



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

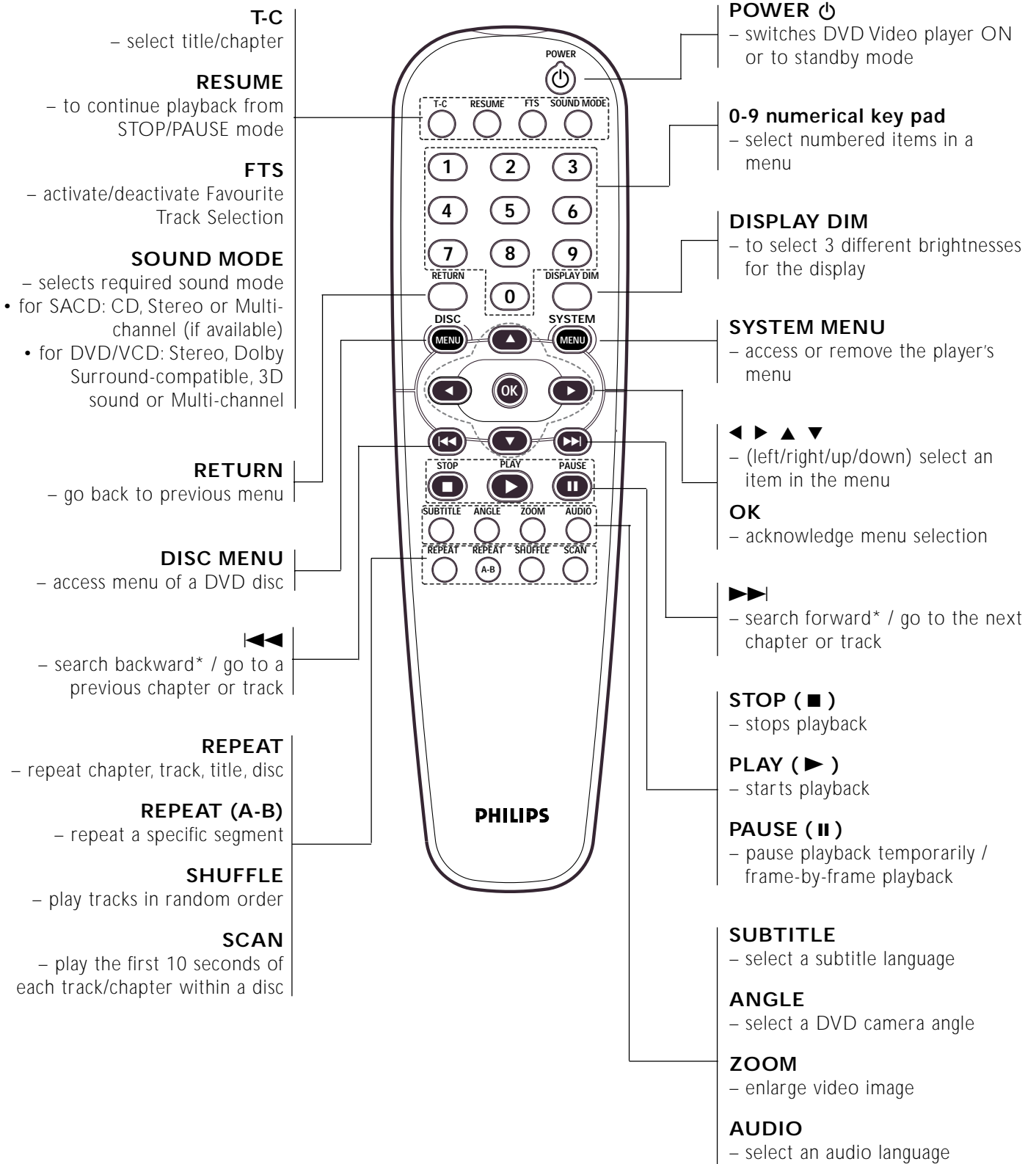
## Display

<b>SVCD</b>	Super Video CD inserted
<b>SACD</b>	Super Audio CD inserted
<b>CD</b>	Audio CD inserted
<b>VCD</b>	Video CD inserted
<b>• CD</b>	indicated the current active sound mode
<b>• STEREO</b>	
<b>• MCH</b>	
<b>DVD VIDEO</b>	DVD video disc inserted
<b>5</b> TITLE	- number of titles on DVD in Stop mode - number of current title
<b>-- 12</b> CHAPTER	Number of current chapter
<b>5</b> TRACK	- number of tracks on SACD/CD/VCD in Stop mode - number of current track
<b>12:09</b> TRACK TIME	track time in hours, minutes and seconds
<b>1:12:09</b> TOTAL TIME	disc/program time in hours, minutes and seconds
REM TIME	remaining track time in hours, minutes and seconds when Display mode is set to Remaining time



<b>  </b>	Playback temporarily interrupted (not active when setting Personal Preferences)
<b>SCAN</b>	First 10 seconds of each track/chapter are played
<b>A-B REPEAT</b>	A passage (a-b) is being repeated
<b>SHUFFLE</b>	Tracks/chapters are played in random order
<b>REPEAT TITLE CHAPTER TRACK</b>	Repeat Title/Chapter/Track/All active
<b>FTS</b>	FTS (Favourite track selection) program available for CD/DVD/VCD inserted
<b>((O</b>	Remote control active (flashing)
<b>DTS</b>	DTS (Digital Theatre Sound) audio on the digital output
<b>MCH</b>	Sound mode button (for DVD) is set to Multi-channel
<b>SUR</b>	Sound mode button (for DVD/VCD) is set to Dolby Surround-compatible
<b>3D</b>	Sound mode button (for DVD/VCD) is set to 3D Sound

# Remote Control

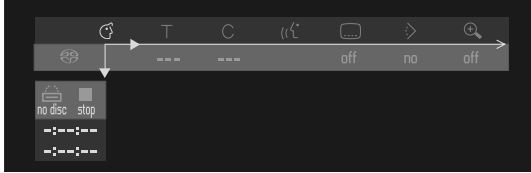


\* Press and hold key for about two seconds

# On screen display information

## Menu bar/Status window

- |  |                      |  |                    |
|--|----------------------|--|--------------------|
|  | Personal Preferences |  | Sound              |
|  | Title/Track          |  | Picture by Picture |
|  | Chapter/Index        |  | Slow motion        |
|  | Subtitle language    |  | Fast motion        |
|  | Angle                |  | Time search        |
|  | Zoom                 |  | Audio language     |
|  | Video FTS            |  | Sound Mode         |



## Status window icons

The status window displays the current status of the player and is displayed together with the first part of the menu bar if activated in the Features menu (see Personal Preferences).

### General

- |  |  |  |  |           |
|--|--|--|--|-----------|
|  |  |  |  | Disc type |
|--|--|--|--|-----------|

- |  |  |  |  |             |
|--|--|--|--|-------------|
|  |  |  |  | Tray status |
|  |  |  |  |             |
|  |  |  |  |             |

## Default screen

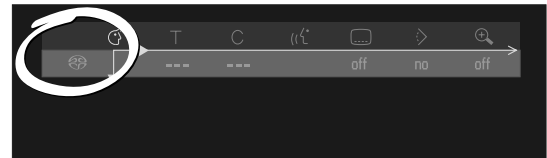
The default screen is displayed when the player is in STOP mode.

It may contain in a status window (see 'Status Window') and a 'Temporary Feedback Field,' which gives information concerning prohibited actions, playback modes, available angles, etc.



## Temporary Feedback Field icons

- |  |  |
|--|--|
|  | Scan   |
|  | Repeat All   |
|  | Repeat Title   |
|  | Repeat Track   |
|  | Repeat Chapter   |
|  | Shuffle  |
|  | Shuffle Repeat   |
|  | Repeat A to end  |
|  | Repeat A-B   |
|  | Current camera angle/number of available camera angles |
|  | Child Lock On  |
|  | Child Safe   |
|  | Resume   |
|  | Action prohibited                                      |



## General Notes

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use only one of the connections described below.
- For some connections, settings for digital and/or analogue output are required. These settings have to be made in the 'Personal Preferences' menu which is only accessible via your TV screen. In these cases you will need to connect the player to the TV as well.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

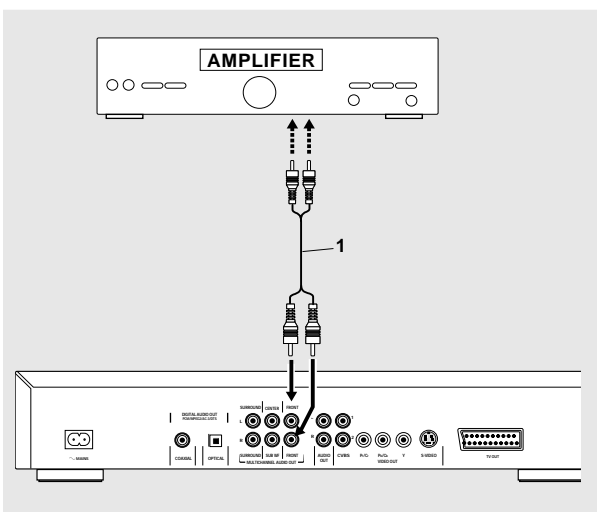
### Caution:

– Do not connect the player's audio out jack to the phono in jack of your audio system.

## Connecting to audio equipment - analog

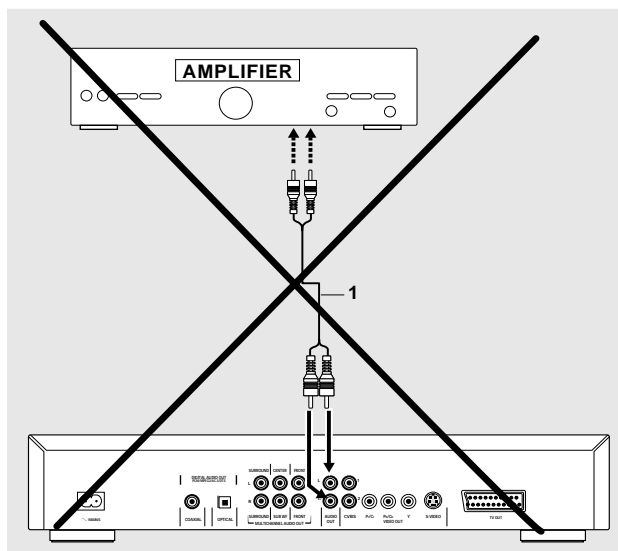
### Connecting to an amplifier/receiver equipped with two channel analogue stereo

- Connect the audio Left and Right outputs for Front speaker connection (1) to the corresponding sockets on your amplifier, receiver or stereo system using the audio cable supplied.



### Important:

– For the best sound quality with playback of audio CDs and stereo SACDs, always use the left and right connector of the high-quality stereo/ Multi-channel audio output. The separate stereo output is intended only for connection to video equipment such as a TV set.



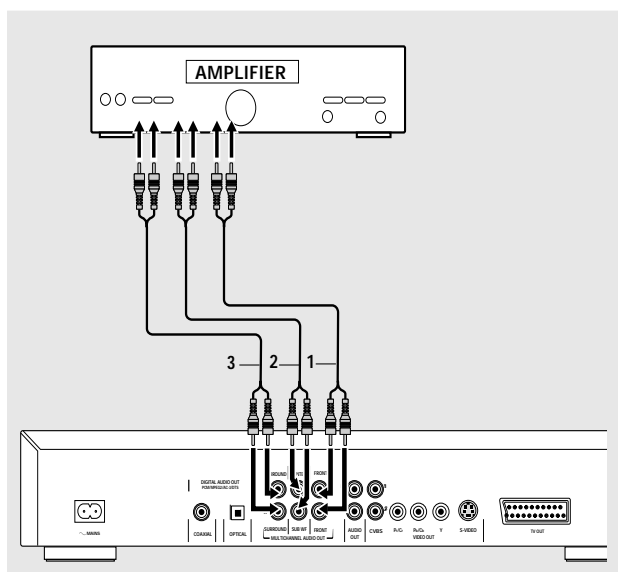
### Connecting to a Multi-channel Audio/ (Video) receiver with 6 connectors

The SACD player contains a multi-channel decoder. This enables playback of SACDs recorded in Multi-channel. You only need to select Multi-channel using the Sound Mode key.

- 1 Connect the audio Left and Right outputs for Front speaker connection (1) to the corresponding input sockets on your receiver using the audio cable supplied.
- 2 Connect the audio Left and Right outputs for Surround speaker connection (3) to the corresponding inputs on your receiver using an optional audio cable.
- 3 Connect the audio outputs for Center speaker and Subwoofer connection (2) to the corresponding inputs on your receiver using an optional audio cable.

### Note:

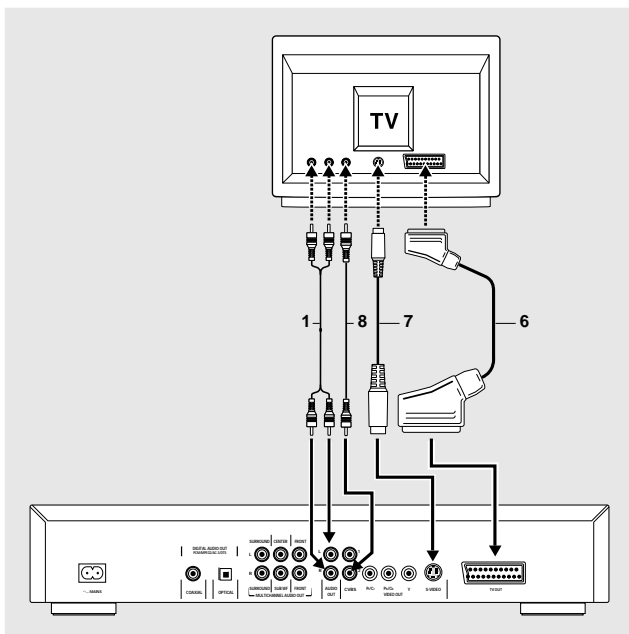
– If the subwoofer is equipped with its own amplifier, the Subwoofer connection should be connected directly to the subwoofer.





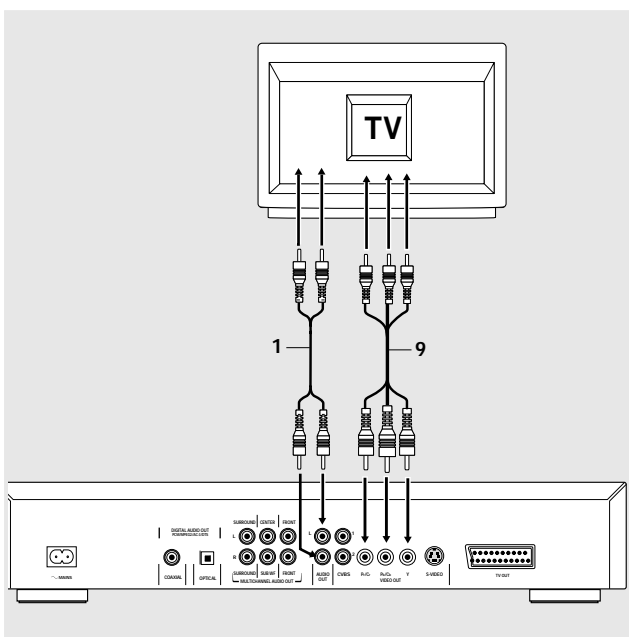
## Video CVBS connection

- 1 Connect the VIDEO OUT (CVBS) socket (8) to the corresponding socket on the TV using the video cable supplied.
- 2 If you wish to receive the sound via your TV, connect the STEREO OUT Left and Right output sockets (1) to the corresponding sockets on the TV using the audio cable supplied.



## Component Video (Pr/Cr Pb/CbY) connection

- 1 Connect the Pr/Cr Pb/CbY VIDEO OUT jacks on the DVD player to the corresponding jacks on the TV using an optional Pr/Cr Pb/CbY cable (9).
- 2 Connect the Left and Right AUDIO OUT jacks of the DVD player to the audio left/right in jacks on the TV (1).



## 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

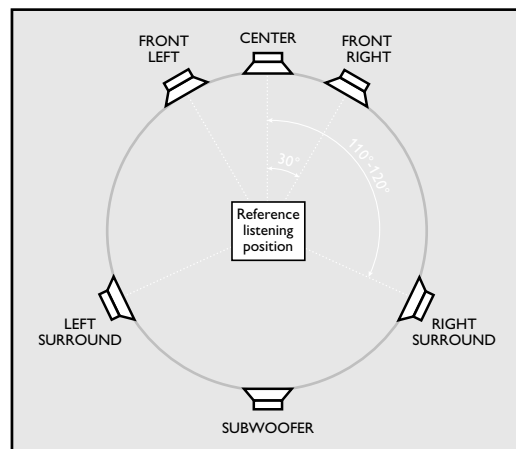
- L (Large): When the surround speakers can reproduce low frequency signals below 120Hz
- S (Small): When the surround speakers cannot produce low frequency signals below 120Hz
- Off: When the surround speakers are not connected

### Subwoofer

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

#### \* Notes:

- You can use your TV as center speaker. Please refer to your TV User Manual to check if your TV can reproduce low frequency signals below 120Hz. If not, set Center Speaker to S (small).
- When Center Speaker is selected in the 'Personal Preferences' menu, the sound from both center speaker and audio L/R as well as the audio from the Euroconnector will contain the center speaker audio.



## Delay times

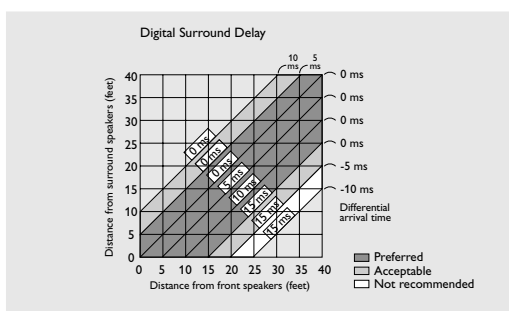
The SACD player is set to reproduce correctly synchronized Digital Surround Sound in a listening area where the surround speakers are about 150cm nearer to the listening position than the front speakers, and the center speaker is in line with the front speakers. To adjust for other listening area arrangements,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

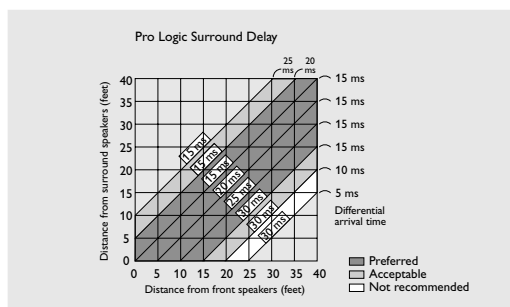
Subtract the surround distance from the front distance and divide by 30. The result is the required Surround Channel delay time in milliseconds.

If the center speaker is on the front speaker plane, no center speaker delay is needed. If, however, it is nearer to 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.



### Dolby Pro Logic

If the delay times for Surround Channel and Center Channel are set for Digital Surround mode, the delay times for Dolby Pro Logic mode will automatically be calculated and set.



## Connecting the power supply

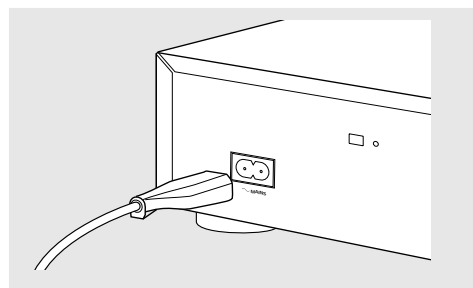
- 1 Check if the power voltage as shown on the type plate (on the back of the player) corresponds to your local power voltage.
- 2 Plug the female end of the power cable supplied into the Power connector POWER SUPPLY on the rear of the player.
- 3 Plug the male end of the cord into an AC outlet.

#### Note:

- When the player is in the STANDBY or OFF position, it will still consume some power.
- If you wish to disconnect your player completely from the power supply, pull the plug from the AC Outlet.

#### Caution:

**Only qualified service personnel should remove the cover or attempt to service this device.**





## General Explanation

### About this manual

This manual gives the basic instructions for operating the SACD player.

Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol  $\times$  appears on the TV screen, indicating that the operation is not permitted by the player or the disc.

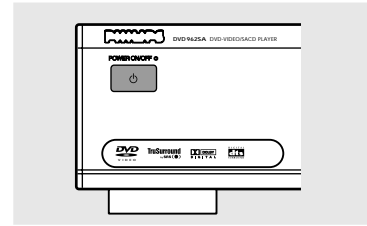
### Remote control operation

- Unless stated, all operations can be performed by the remote control. Always point the remote control directly at the player, making sure there are no obstructions between the remote and the player.
- Corresponding keys on the front panel of the player can also be used.

### Menu bar operation

- A number of operations can also be performed using the menu bar on the screen. The menu bar can be activated by pressing any of the following keys on the remote control: SYSTEM MENU, T-C, Angle, Audio Language, Subtitle Language, Zoom and FTS.
- The following functions can be operated via the menu bar.
  - Personal Preferences
  - Track/title selection
  - Chapter selection
  - Audio language selection
  - Subtitle language selection
  - Angle selection
  - Zoom
  - Video FTS selection
  - Sound mode
  - Picture-by-picture
  - Slow motion
  - Fast motion
  - Time search
- The various items can be selected using the  $\blacktriangleleft$   $\blacktriangleright$  (left/right cursor) keys or by pressing the relevant keys on the remote control.
- By pressing SYSTEM MENU, the menu bar can be removed from the screen.
- When selecting an item in the menu bar, the selected item will be highlighted and the cursor keys (on the remote control) for operating the function are displayed below the icon.
- $<$  or  $>$  indicates that more items are available at the left/right hand side of the menu bar. Press  $\blacktriangleleft$   $\blacktriangleright$  (left/right cursor) to select these items.

## Switching on




- 1 If necessary, switch on the TV and select the video input for your SACD player.
- 2 Press ON/OFF on the player front panel or STANDBY on the remote control.
  - The player display will light up.
  - If the player is connected to the TV, the start-up screen appears.



## Personal Preferences

In this mode you can set your personal preferences for a number of player features. Some settings must always be selected. This depends on the type of audio equipment connected. For this see the section 'Connecting to audio equipment.'

### General operation:

- 1 Press SYSTEM MENU on the remote control.
- 2 Select  in the menu bar and press ▼ (down cursor).  
→ The Personal Preferences menu appears.
- Use the ◀▶▲▼ (left/right/up/down) 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

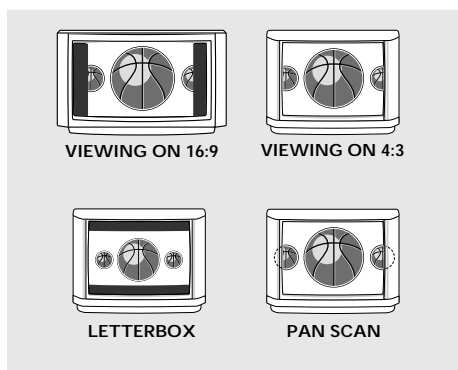
#### – TV Shape

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.

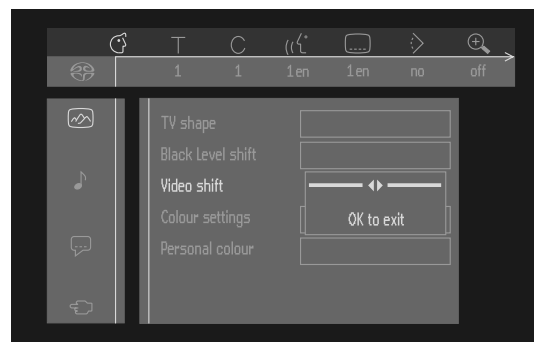


#### – Black level shift (NTSC only)

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

#### – Video shift

Use this setting to personalize the position of the picture on your TV by shifting it to the left or right. Use ◀▶ keys to shift and OK to exit.



### Sound

#### – Digital and Analog output Settings for DVD/VCD

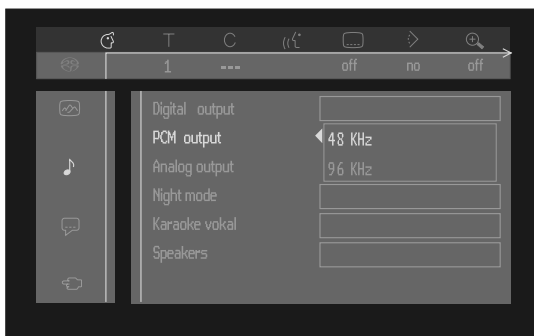
Connected audio system	Digital out	Analog out
Amplifier or TV with two channel analog stereo	Off	Stereo or 3D Sound
Amplifier or TV with Dolby Surround	Off	Dolby Surround - compatible
Amplifier with two channel digital stereo	PCM only	Stereo or 3D Sound
A/V receiver with multi-channel decoder (Dolby Digital, MPEG, DTS)	All	Stereo, 3D Sound, Dolby Surround -compatible or Multi-channel
Multi-channel A/V receiver with 6-ch connectors	Off	Multi-channel

#### – Digital output

Factory setting is ALL. If you connect equipment with a digital input change the setting to ALL or PCM (Pulse Code Modulation - see below) only. Both coaxial and optical outputs are then switched on (not for SACD). If your equipment doesn't include a digital multichannel decoder, set the digital output to PCM. Both coaxial and optical outputs are then switched on. See 'Digital and Analog output Settings for DVD/VCD' above.

## – PCM output

PCM (Pulse Code Modulation) is a method of encoding audio information in a digital format. PCM samples analog audio information at a fixed sampling rate and measures the amplitude (volume) of the audio signal with a precision determined by the sampling size. Audio is encoded on CDs in the PCM format with a sampling frequency of 44.1kHz and a 16-bit sampling size. A 16-bit sample size can contain 65,536 possible levels of sound volume which corresponds to a dynamic range of 96dB. A DVD can be encoded in PCM with a sampling frequency of up to 96kHz and a 24-bit sample size.



The PCM setting on your player allows you to select the PCM sample-rate frequency of the analog and digital outputs. You can set it to either 48kHz or 96kHz. Factory setting is 48kHz. Note when using digital outputs:

- If you have a digital amplifier with a PCM input of 96kHz, connected via digital output, choose this frequency in the menu. Do not choose 96kHz if your amplifier has a digital PCM input of 48kHz since then a strong distorted sound may be produced.
- Due to copy-protection the digital outputs may be muted when 96kHz is selected, while the analog outputs will remain active. Switching the PCM output back to 48kHz will reactivate the digital output.

## – Analogue output

Select Digital and Analog output settings for DVD/VCD. Select Stereo, Dolby Surround-compatible, 3D Sound or Multi-channel. Factory setting is Multi-channel.

**Multi-channel:** Select this setting when using a multi-channel audio/(video) receiver with six inputs. In this mode, the player will perform Dolby Digital 5.1-channel decoding when applicable, and Dolby Pro Logic decoding on DVD-Video and Video-CD discs with 2-channel sound tracks. No Dolby Pro Logic decoding is done with (Super) Audio CD discs.

**Dolby Surround-compatible:** Select this setting when using an equipment with a Dolby Surround Pro Logic decoder. In this setting, the 5.1 audio channels (Dolby Digital, MPEG-2) are downmixed to a Dolby Surround-compatible 2-channel output.

**3D-Sound:** In a setup without rear speakers (analog stereo output), 3D Sound remixes the six channels of digital surround into a two-speaker output while retaining all of the original audio information. The result is the listening sensation of being surrounded by multiple speakers.

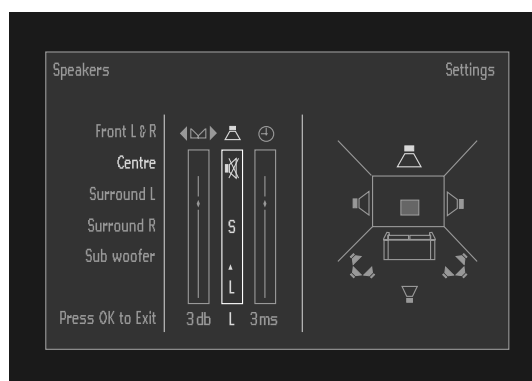
During DVD or Video-CD playback, these values can be selected directly with the 'SOUND MODE' key.

## – Night Mode

Optimizes the dynamics of the sound for low-volume playback. This setting can only be used with discs that support the Night Mode feature.

## – 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 Multi-Channel Audio Out outputs for both DVD and SACD. Speaker settings will not be used during playback in the SACD Stereo mode.



**Note:**

- Volume level setting is not applicable for SACD playback.
- To preserve highest sound quality for playback of multichannel SACD, bass filter for speakers will only be activated when ALL speakers are set to small in speaker setting.

## – 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.

**Audio language** - The sound will be in the language you select, provided it is available on the disc in play. If not, speech will revert to the first spoken language on the disc. You can choose from 16 different languages.

**Subtitle language** - The subtitles will be in the language you select, provided it is available on the disc in play. If not, subtitles will revert to the first subtitle language on the disc. You can choose from 16 different languages.

**Menu language** - The On-screen Menus will be displayed in the language you select. You can choose from 8 different languages.

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

## Features

### – Access Control (DVD/VCD only)

Access Control contains the following features:

**Disc Lock** - When Disc Lock is set to ON, a 4-digit PIN code must be entered in order to play discs.

**Parental control** - Allows the conditional presentation of DVD discs containing Parental Control information.

### – Status Window

Displays the current status of the player and appears 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.

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

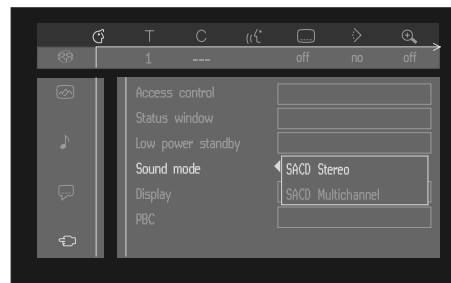


### – Low Power Standby

If this setting is set to ON, the player will go in low-power standby when the Stand-by key (remote control) is pressed. While in low-power standby, scart AUX-I/O will no longer be available.

### – Sound Mode (SACD only)

Selection of default SACD Sound Mode: Stereo or Multi-channel. Sound Mode setting can be changed during playback with the Sound Mode button on the player or the remote control. When selecting Multi-channel make sure your sound mode is set up for Multi-channel reproduction.



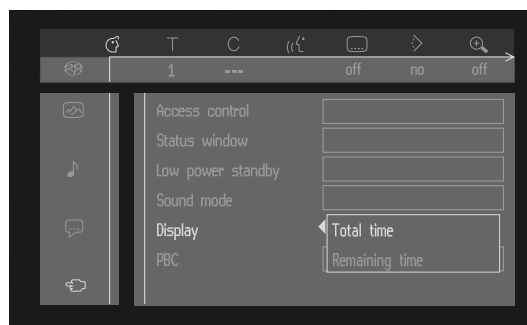
## Display information

### – Display

**Elapsed time** - during playback the elapsed playing time will be displayed.

**Remaining time** - during playback the remaining playing time will be displayed.

Display setting can be changed during playback using the DISPLAY key on the remote control.



### – Player Display Dim (via remote control)

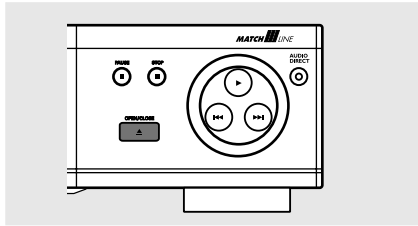
This feature allows you to set the front panel display brightness. By repeatedly pressing the DIM key on the remote control you can select from 3 different brightness levels.

### – PBC (Playback Control)

This feature allows you to disable or enable the PBC (Playback Control) menu of VCD discs. See under 'Special VCD features': Factory setting is ON.

# Operation - Audio (Super Audio CD and CD)

## Loading an SACD or Audio disc

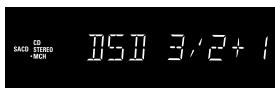


- 1 Press ▲ OPEN/CLOSE on the front of the player to open the disc tray.
- 2 Load your chosen disc in the tray, label side up. Make sure it is properly inserted in the correct recess.
- 3 Gently push the tray, or press ▲ OPEN/CLOSE, to close the tray.  
→ **READY** will appear on the player display and in the status window (if TV is on).  
If a Super Audio CD is inserted, the Sound Modes available on the disc will be shown on the player display. The current Sound Mode is indicated on both player display (with a bullet) and screen (if TV is on).

## Playing an SACD or Audio disc



- Press ► PLAY to start playback.  
→ During playback of Super Audio CDs and audio discs, all functions can be operated via the keys on the remote control and the front player.  
→ If the TV is on, the Super Audio CD or the Audio CD screen will appear.  
→ During play, the current track number and its elapsed playing time will be shown on the player display (on the screen). If a default Display Time setting (Total Time/Remaining Time) is made in the Personal Preferences menu, the relevant time will be indicated during playback. With the DISPLAY key on the remote control other time indications can be selected.  
→ When playing a Super Audio CD, the currently selected Sound Mode will be indicated on the display with a bullet.  
→ At the beginning of each track, the number of front channels and surround channels will be displayed (e.g. 3/2). If a subwoofer channel is present this will also be displayed (+1).



- If a default Sound Mode (Stereo/Multi-channel) is selected in the Personal Preferences menu and this Sound Mode is not available on the inserted disc, playback will start in the first available Sound Mode on the disc.  
→ Playback will stop at the end of the disc.
- To stop play at any other time, press ■ STOP.  
→ The number of tracks and the total playing time will be shown on the player display (and on the screen).

### Sound Mode - SACD playback

- Press SOUND MODE on the remote control to select the desired sound mode:  
**Stereo** - Super Audio Stereo reproduction.  
**Multi-channel** - Super Audio Multi-channel reproduction.  
**CD** - normal CD stereo reproduction (press ■ STOP first, then press SOUND MODE).  
The sound modes available on the disc will be indicated on the display. When selecting Multi-channel, make sure your speaker configuration is set up for Multi-channel reproduction.

### Pause

- Press || PAUSE during playback.
- To return to playback, press ► PLAY.

### Search

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

### Moving to another track

- Press ► NEXT or ◀ PREVIOUS briefly during playback to go to the next track or to return to the beginning of the current track.
- Press ◀ PREVIOUS 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 playing order of the tracks is changed.
- To return to normal playback, press SHUFFLE again.

## Repeat track/disc

- To repeat the current track, 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 specific portion of a track:

- 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 play repeatedly.
- To cancel the sequence and continue playback, press REPEAT A-B.

## Scan

Scanning plays the first 10 seconds of each track on the disc.

- Press SCAN.
- To continue playback at your chosen track, press SCAN again or press ► PLAY.

## FTS (Favourite Track Selection) - Audio CD only

- The FTS Programme allows you to store your favourite tracks for a particular disc in the player memory.
- Each FTS Programme can contain 20 tracks.
- Each time a FTS program is played it will be placed at top of the list. When the list is full and a new program is added, the last program on the list will be removed from the list.
- The selections can be called up and played at any time.
- FTS programming is not possible in Audio Direct mode.

## Storing a FTS program

- 1 Load a disc and stop playback.



- 2 Use ▼ (down cursor) to go to the list of available tracks.
- 3 Use ◀ and ▶ (left/right cursor) 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 programme will be shown on the TV screen and the player display.

When your FTS program is complete, press ► PLAY to start playing; the FTS program will be automatically memorized.

- Press FTS or use the ◀▶ (left/right cursor) to set FTS to ON or OFF.

## Erasing a track from a FTS-program

- 1 Use ▼ (down cursor) to go to the list of selected tracks.
- 2 Use ◀ and ▶ (left/right cursor) to select the track number you wish to erase. To go directly to any track, enter the track number using the numeric keys 0-9.
- 3 Press OK.  
→ The track number will be erased from the list of selected tracks.

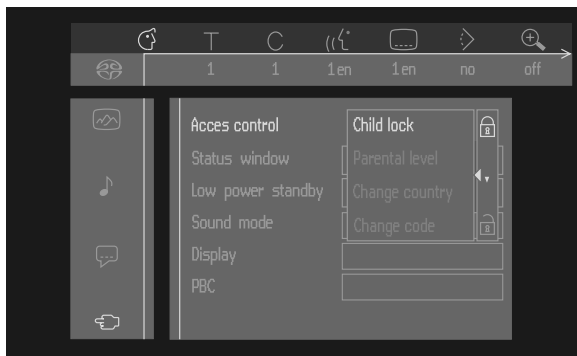
## Erasing the complete program

- Use ▼ (down cursor) to select CLEAR ALL and press OK.  
→ The complete FTS Programme for the disc will be erased.

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

### Activating/deactivating the disc lock

- 1 In the STOP mode, select ACCESS CONTROL in the features menu using the ▼/▲ (down/up) keys and press ► (right cursor).
- 2 Enter a 4-digit code of your own choice.
- 3 Enter the code a second time.
- 4 Move to "CHILD LOCK" using the ▼/▲ (down/up) keys.



- 5 Move to using the ► (right cursor) key.
- 6 Select using the ▼/▲ (down/up) keys.
- 7 Press OK to confirm or ◀ (left cursor) to confirm and press ◀ (left cursor) again to exit the menu.  
→ Now unauthorized discs will not be played unless the 4-digit code is entered.
- 8 Select to deactivate the Disc 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');
- Both Disc Lock and Parental Control are switched Off and the code is requested.

### Authorizing discs

- Insert the disc. See 'Loading discs'.  
→ The 'child protect' dialog will appear.  
You will be asked to enter your secret code for 'Play Once' or 'Play Always.' If you select 'Play Once', the disc can be played as long as it is in the player and the player is ON. If you select 'Play 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

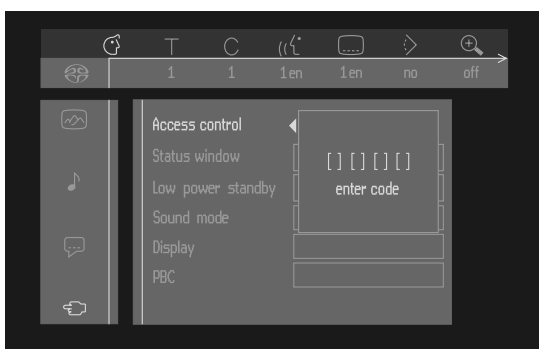
- Insert the disc. See 'Loading discs'.  
→ Playback starts automatically.
- Press ■ STOP while ☺ is visible.  
→ The ☹ will appear and the disc is now deauthorized.

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

Movies on DVDs may contain scenes not suitable for children. Therefore, discs 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 In STOP mode, select ACCESS CONTROL in the features menu using the ▼/▲ (down/up) keys and press ► (right cursor).



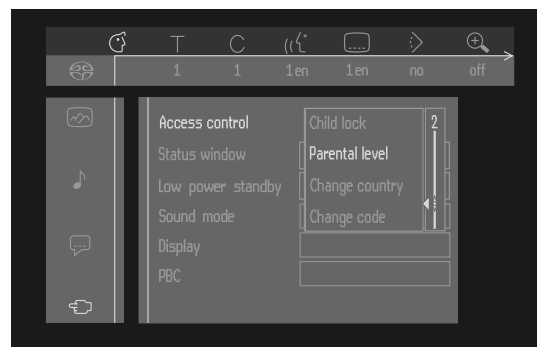
- 2 Enter your 4-digit code. If necessary, enter the code a second time.
- 3 Move to PARENTAL LEVEL using the ▼/▲ (down/up) keys.
- 4 Move to Value Adjustment (1-8) using the ► (right cursor) key.
- 5 Then use the ▼/▲ (down/up) keys or the numerical keys on the remote control to select a rating from 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 (child safe) to 8 (adults only):

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 ◀ (left cursor) to confirm and press ◀ (left cursor) again to exit from the menu.

### Country

- 1 In STOP mode, select ACCESS CONTROL in the features menu using the ▼/▲ (down/up) keys and press ► (right cursor).
- 2 Enter the 4-digit code.
- 3 Move to CHANGE COUNTRY using the ▼ (down) key.
- 4 Press the ► (right) key.
- 5 Select a country using ▼/▲ (down/up cursor).
- 6 Press OK or ◀ (left cursor) to confirm and press ◀ (left cursor) again to exit from the menu.

### Changing the 4-digit code

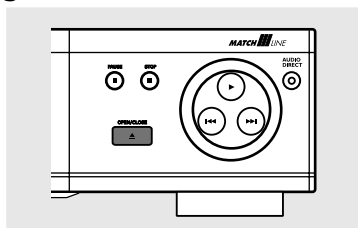
- 1 In STOP mode, select ACCESS CONTROL in the features menu using the ▼/▲ (down/up) keys and press ► (right cursor).
- 2 Enter the old code.
- 3 Move to CHANGE CODE using the ▼ (down) key.
- 4 Press the ► (right) key.
- 5 Enter the new 4-digit code.
- 6 Enter the code a second time and reconfirm by pressing OK.
- 7 Press ◀ (left cursor) to exit the menu.

### If you forget your 4 digit code

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



## Loading DVDs or VCDs



- 1 Press ▲ OPEN/CLOSE on the front of the player to open the disc tray.
- 2 Load your chosen disc in the tray, label side up. Make sure it is properly inserted in the correct recess.
- 3 Gently push the tray, or press ▲ OPEN/CLOSE, to close the tray.  
→ **READY** will appear in the status window and on the player display and playback will start automatically.

### Note:

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

## Playing a DVD-video disc



### Playing a title

- After inserting the disc and closing the tray, playback starts automatically. The status window of the player display shows the type of disc loaded, as well as the 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 0-9; if not, use the ▼/▲, ◀/▶ (down/up/left/right) keys to highlight your selection, then press OK.
- The currently-playing title and chapter number will be displayed in the menu bar and the player display. The elapsed playing time will be indicated in the status window and on the player display.
- At the beginning of each title, the number of front channels and surround channels will be displayed (e.g. 3/2). If a subwoofer channel is present this will also be displayed (+1).
- If the audio format (MPEG, Dolby Digital, etc.) of a title changes during play, this will be indicated on the display.
- If required, you can use the SOUND MODE key to select Stereo, Dolby Surround-compatible, 3D-Sound or Multi-channel reproduction. Play may stop at the end of the Title; this can result in returning to menu.

- To stop playback, press ■ STOP.  
→ The default screen will appear, giving information about the current status.
- You can resume playback from the point at which you stopped playback. Press ▶ PLAY; when you see the ▶ RESUME on the screen, press ▶ PLAY 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 ▶ PLAY when you see the ▶ RESUME on the screen, then press ▶ PLAY again.

### Notes:

- 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 may have an optional region code.
- If you load a disc with a different region code than your player, you will see the region code notice on the screen.
- The disc will not play, and should be unloaded.

## Playing a video CD



### Playing a disc

- After inserting the disc and closing the tray, playback starts automatically. The status window of the player display shows the type of disc loaded, as well as the disc's information and playing time.
- The disc may invite you to select an item from the menu. If the selections are numbered, press the appropriate numeric key 0-9.
- The track number currently playing will be displayed in the menu bar and the player display. The elapsed playing time will be indicated in the status window and the player display.
- If required, you can use the SOUND MODE key to select Stereo, Dolby Surround-compatible or 3D-Sound reproduction.
- To stop playback, press ■ STOP.  
→ The default screen will appear.
- You can resume playback from the point at which you stopped playback. Press ▶ PLAY; when you see the ▶ RESUME on the screen, press ▶ PLAY 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 ▶ PLAY when you see the ▶ RESUME on the screen, then press ▶ PLAY again.

## General features

### Note:

– Unless stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the screen.

### Moving to another title/track

When a disc has more than one title or track (which you can see from both menu bar and the player display), you can move to another title as follows:

- Press T-C (title), then press ► NEXT briefly during play to select the next title/track.
- Press T-C (title), then press ◀ PREVIOUS briefly during play to return to the beginning of the current title/track. Press ◀ PREVIOUS briefly again to move back to the previous title/track.
- To go directly to any title or track, press enter the track T-C (title), then enter the title number using the numeric keys 0-9.

### Notes:

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

### Moving to another chapter/index

When a title on a disc has more than one chapter or a track has more than one index (which you can see from the player display and on the menu bar), you can move to another chapter/index as follows:

- Press ► NEXT briefly during play to select the next chapter/index.
- Press ◀ PREVIOUS briefly during play to return to the beginning of the current chapter/index. Press ◀ PREVIOUS briefly again to move back to the previous chapter/index.
- To go directly to any chapter or index, press T-C (chapter), then enter the chapter or index number using the numeric keys 0-9.

### Notes:

– 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 ▼ (down) keys to enter the SLOW MOTION menu.  
→ Playback will pause.
- Use the ◀▶ (left/right) 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 play the disc at normal speed again.
- If ■ is pressed, the speed will be set to zero (PAUSE).
- To exit slow motion mode, press ► PLAY and ▲ (up cursor).

You can also select Slow motion speeds by using the ▷ key on the remote control.

### Still Picture and Step Frame

- Select ⏮ (STEP BY STEP) in the menu bar.
- Use the ▼ (down) key to enter the step by step menu.  
→ Playback will pause.
- Use the ◀▶ (left/right) to select the previous or next picture frame.
- To exit step by step playback, press ► (PLAY).  
You can also step forward by pressing ■ PAUSE repeatedly on the remote control.

### Search

- Select ⏮ (FAST MOTION) in the menu bar.
- Use the ▼ (down) keys to enter the FAST MOTION menu.
- Use the ◀▶ (left/right) keys to select the required speed: -32, -8 or -4 (backward), or +4, +8, +32 (forward).
- Select 1 to play the disc at normal speed again.
- To exit FAST MOTION mode, press ► PLAY and then ▲ (up cursor).  
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 current chapter, press REPEAT.  
→ REPEAT CHAPTER appears on the player display.
- To repeat the current title, press REPEAT a second time.  
→ REPEAT TITLE appears on the display.
- To repeat the entire disc, press REPEAT a third time.  
→ REPEAT ALL appears on the display.
- To exit Repeat mode, press REPEAT a fourth time.

#### Video CDs

##### Repeat track/disc

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

## Repeat A-B

To repeat a specific portion of 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.  
→ **REPEAT A-B** appears briefly on the display, and the repeat sequence begins.
- To cancel the sequence and continue playback, press REPEAT A-B.

## Scan

Scanning plays the first 10 seconds of each chapter/track on the disc.

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

## Shuffle

### DVD-Video discs

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

- Press SHUFFLE during playback.  
→ The shuffle icon will appear on the screen for about 2 seconds.
- To return to normal playback, press SHUFFLE again.

### Video CDs

This feature shuffles the playing order of tracks, if the disc has more than one track.

- Press SHUFFLE during playback.  
→ The shuffle icon will appear 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.

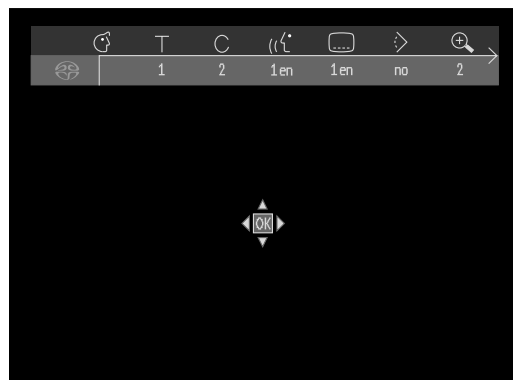
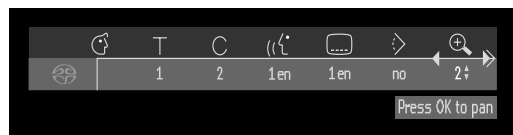
- Select ⏮ (TIME SEARCH) in the menu bar.
- Press ▼ (down cursor).  
→ Playback will pause.  
→ A time edit box appears on the screen, showing the elapsed playing time of the current disc.
- Use the numeric keys to enter the required start time. Enter hours, minutes and seconds from left to right in 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 on the disc.



## Zoom

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

- Select ⌕ (ZOOM) in the menu bar.
- Press ▼/▲ (down/up) keys to activate the ZOOM function and select the required zoom factor: 1.33 or 2 or 4.  
→ Playback will pause.  
→ 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 ◀▶▲▼ (left/right/down/up) keys to pan across the screen.
- When OK is pressed only the zoomed picture will be shown on the screen.
- If you wish to zoom at any moment, press ⌕ ZOOM and select the required zoom factor as described above.
- To exit **ZOOM** mode:  
– Press ► PLAY to resume playback.



## FTS-Video

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

### Storing a FTS-Video Programme

- While playback is stopped, select VIDEO FTS  in the menu bar.
- Press ▼ (down cursor) to open the menu.  
→ The VIDEO FTS menu appears.

### Storing titles/tracks

- Press ▼ (down) key to select TITLE.
- Use ◀▶ (left/right) keys 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

- Press ▼ (down) key 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 ◀▶ (left/right) keys 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 OK or SYSTEM MENU to exit the VIDEO FTS  menu.

### Erasing an FTS-Video Programme

- While playback is stopped, select VIDEO FTS  in the menu bar.
- Use ▼ (down) key to select PROGRAM.
- Use ◀▶ (left/right) keys to select the required number.
- Press OK to erase the selection.
- Press ▲ (up) key or SYSTEM MENU to exit the VIDEO FTS  menu.

### Erasing all selections

- While playback is stopped, select VIDEO FTS  in the menu bar.
- Use ▼ (down) key to select CLEAR ALL.
- Press OK.  
→ All selections will be erased.
- Press ▲ (up) key or SYSTEM MENU to exit the VIDEO FTS  menu.

### Switch FTS Video ON or OFF

- Select VIDEO FTS  in the menu bar and press ▼ (down) key.  
→ The video FTS menu appears.
- Press ◀▶ (left/right) keys to select ON or OFF.
- Press ▲ (up) key or SYSTEM MENU to exit the VIDEO FTS  menu.

You can also switch FTS Video ON or OFF by using the FTS button on the remote control.



## 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 ▼, ▲, ►, ◀ (down/up/left/right) 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.

#### Menu Disc

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

#### Camera Angle

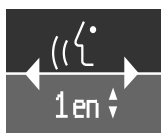
If the disc contains sequences recorded from different camera angles, the angle icon ⤵ appears, showing the number of available angles and the angle being shown currently. You can then change the camera angle if you wish.

- Use the ▼/▲ (down/up) keys to select the required angle.
- To go to any angle directly, enter the angle number using the numerical keys 0-9.  
→ After a while, playback changes to the selected angle. The angle icon remains displayed until multiple angles are no longer available.



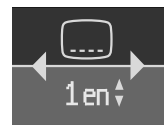
#### Changing the audio language

- Select ((Ⓛ) (AUDIO) in the menu bar.
- Press AUDIO or ▼/▲ (down/up) keys repeatedly to see the different languages.
- You can enter the required language number directly using the numerical keys 0-9.



#### Subtitles

- Select (SUBTITLE) in the menu bar.
- Press SUBTITLE or ▼/▲ (down/up) keys repeatedly to see the different subtitles.
- You can enter the required subtitle number directly using the numerical keys 0-9.



## Special Video-Features

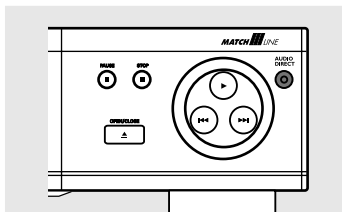
### Playback Control (PBC)

- Load a Video CD with PBC and press ► PLAY.  
→ The PBC menu appears on the TV screen.
- Go through the menu with the keys indicated on the TV screen until your chosen passage starts to play. 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 select PBC OFF under Personal Preferences.

## Enhanced use

### Audio Direct Mode

- Audio Direct feature can be activated or deactivated by pressing the AUDIO DIRECT button on front of the player.



This feature will minimise any interaction between the video and audio circuitry thereby allowing **maximum audio quality** produced from the player.

- 1 Press AUDIO DIRECT button on front of the player.  
→ Video section of the SACD player will be "switched off" and pictures will disappear on the TV screen.
  - 2 Press AUDIO DIRECT button again;  
→ Pictures will appear on the TV screen.
- The Audio Direct cannot be activated when playing a video disc (e.g., DVD/VCD/SVCD).
  - Audio Direct mode will be deactivated whenever the player is switched to standby or off.

#### When AUDIO DIRECT is switched to ON:

- OSD related keys are disable (e.g., SYSTEM MENU, TITLE, CHAPTER, etc.)
- If a video disc is inserted into the player, audio direct mode will be automatically deactivated and picture will be displayed on the TV screen.

#### Note:

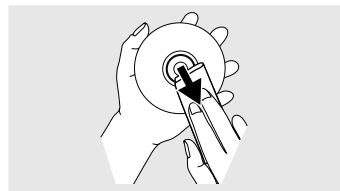
– *It is recommended that the Audio Direct mode is turned off before you play any video disc.*

- The player will react similar to a CD player. Thus for audio discs (e.g., CDDA, SACD) it is possible use ►►► NEXT / ◀◀◀ PREVIOUS keys for track selection.

## Cleaning Discs

Some problems occur because the disc inside the player is dirty. To avoid these problems clean your discs regularly, in the following way:

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out, in a straight line.



#### Caution:

- **Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for analog discs.**

## Diagnostic program

If the player is still faulty you can start the Diagnostic Program in the player.

You can operate the Diagnosis Program by following the step-by-step instructions below.

### Instructions

- 1 Switch the player OFF with the ON/OFF button.
- 2 Press the ▲ OPEN/CLOSE and ■ button simultaneously and keep them pressed while you turn the player ON.  
→ On the display the message BUSY appears together with a counter that counts down as the test is running, reaching zero by the end of the test.  
→ After a few minutes, the message on the local display changes from BUSY to FAIL or to PASS.  
→ If the message FAIL appears on the display, there is apparently a failure in your player and your player should be repaired.
- 3 Consult your dealer or the Philips Customer Care Centre for the nearest Service Repair Shop in your country. The phone number is given in your warranty booklet.
- 4 If the message PASS appears on the display, there is apparently no failure in your player. In this case the failure can be caused by incorrect interpretation of the operating instructions, the use of a wrong disc or the fact the your player is incorrectly connected. In this case, you should consult your dealer or the Philips Customer Care Centre for further assistance in solving the problem.
- 5 If the problem remains, return to point 3 of this instruction to find the nearest repair shop.
- 6 Switch the player OFF with the ON/OFF button to leave the diagnostic program.

# Before Requesting Service

If it appears that the DVD Video player is faulty, first consult this checklist. Something may have been overlooked. Under no circumstances should you 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 power cord is properly connected.</li><li>– Check if there is power at the AC outlet by plugging in another appliance.</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><li>– DTS-CD do not play on the SACD player.</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's phono input.</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></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><li>– Check if Audio Direct is turned off (only for CD and SACD).</li></ul>
<b>Distorted picture</b>	<ul style="list-style-type: none"><li>– Check the disc for fingerprints and clean the disc with a soft cloth, wiping from the center to the edge in a straight line.</li><li>– Sometimes a small amount of picture distortion may appear. This is not a malfunction.</li></ul>
<b>Completely distorted picture or no Colour with player menu</b>	<ul style="list-style-type: none"><li>– The NTSC/PAL switch may be in the wrong status.</li><li>– Press the ■ STOP and ►► NEXT buttons simultaneously and keep them pressed while you turn the player ON.</li></ul>
<b>No return to start-up screen when disc is removed</b>	<ul style="list-style-type: none"><li>– Reset the unit 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>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 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 on.</li><li>– Check if the audio format of the selected audio language matches your receiver capabilities.</li></ul>
<b>Buttons do not work</b>	<ul style="list-style-type: none"><li>– Reset by switching the player OFF then ON again.</li></ul>
<b>Audible 'clicks' from player's internal</b>	<ul style="list-style-type: none"><li>– During operation the relays of the player may be switched, leading to an audible 'click'. This is not a malfunction.</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>

# Specifications

## PLAYBACK SYSTEM

SACD Stereo  
SACD multi-channel  
DVD Video  
Video CD  
S-Video CD  
CD (CD-R and CD-RW)  
DVD+RW and DVD-R

## OPTICAL READOUT SYSTEM

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

## SACD DISC FORMAT

Medium Optical Disc  
Diameter 12cm (8 cm)

## DVD DISC FORMAT

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

## TV STANDARD

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

## AUDIO FORMAT

Digital	DSD	Uncompressed Digital
	MPEG	Compressed Digital
	DTS/Dolby Digital	
	PCM	16, 20, 24 bits fs, 44.1, 48, 96 kHz

Analog Sound Stereo  
Dolby Surround-compatible downmix from multi-channel sound  
Full decoding of Dolby Digital multi-channel surround sound  
3D Sound (TruSurround) for virtual 5.1 channel sound on 2 speakers

## VIDEO FORMAT

Digital Compression	MPEG2 for DVD, MPEG1 for VCD	
DVD	50 Hz	60 Hz
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines
VCD	50 Hz	60 Hz
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

## SACD AUDIO PERFORMANCE

DA Converter		DSD
SACD	fs 2.8224 MHz	DC - 100 kHz
Max. output voltage (0dB)		2 V rms
Channel unbalance		< 0.5 dB
Cut-off frequency		
Front L/R, Stereo		50 kHz
Surr. L/R, Center		40 kHz
Signal-Noise (1kHz)		110 dB
Total harmonic distortion (1kHz)		100 dB
Dynamic Range (1kHz)		105 dB
Crosstalk (1kHz)		110 dB

## 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
Component video output	Y: 1 Vpp into 75 ohm Pb/Cb Pr/Cr: 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 PERFORMANCE (TYPICAL)

DA Converter	24 bits	
DVD	fs 96 kHz	4 Hz - 44 kHz
	fs 48 kHz	4 Hz - 22 kHz
Video CD	fs 48 kHz	4 Hz - 22 kHz
CD	fs 44.1 kHz	4 Hz - 20 kHz
Signal-Noise (1kHz)		< 100 dB
Dynamic Range (1kHz)		< 95 dB
Crosstalk (1kHz)		< 105 dB
Distortion and Noise (1kHz)		< 92 dB

## CONNECTIONS

SCART	Euroconnector
Y Output	Cinch (green)
Pb/Cb Output	Cinch (blue)
Pr/Cr Output	Cinch (red)
S-Video output	Mini DIN, 4 pins
Video output	Cinch (yellow) 2x
Audio L+R output	Cinch (white/red)
6 Channel analog output	
Audio Front Left/Right	Cinch (white/red)
Audio Surr. Left/Right	Cinch (white/red)
Audio Centre	Cinch (blue)
Audio Subwoofer	Cinch (black)
Digital Audio Output	1 coaxial, 1 optical IEC958 for CDDA/LPCM IEC1937 for MPEG1/2, Dolby Digital, DTS

## POWER SUPPLY (UNIVERSAL)

Power inlet	110-240V, 50/60Hz
Power usage	Approx. 23 Watt
Power usage standby	less than 3 Watt

## CABINET

Dimensions	435 x 100 x 321 mm (w x h x d)
Weight	approx. 4.2 kg

## PACKAGE CONTENTS

SACD player  
AC power cord  
Remote Control with batteries  
Audio/Video cable  
CVBS/Video cable  
SCART cable  
Instructions for use

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

**Specifications subject to change without prior notice**