

DVDVideo / SACD Player



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 innkoblet. 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 laserklass 1.

Observera!

Strömbrytaren POWER är sekundärt kopplad och inte bryter strömmen från 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 lasersäteilille.

Huom.

Toiminnanvalitsin POWER on kytketty toisipuolelle, 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

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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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
NÅR 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

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.



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This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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



This DVD/SACD player is in conformity with the EMC directive and low-voltage directive.

For Customer Use:

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

Model No. DVD/SACD

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.

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

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

NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.

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Introduction

Thank you for purchasing this Philips DVD/SACD player. This Owner's Manual explains the basic operation of this DVD/SACD player.

Environmental Information

All unnecessary packaging has been omitted. The packaging has been made easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your DVD/SACD player consists of materials which can be recycled and reused if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Supplied accessories

- Remote control
- Batteries (two AA size) for remote control
- Audio cable
- SCART cable
- CVBS cable
- Owner's Manual

Safety Information

- Before operating the DVD player, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) is identical with the voltage of your local power supply. If not, please consult your dealer.





Note:

- **The typeplate is located at the bottom of the DVD player.**
- Place the DVD player on a flat, hard and stable surface.
- There must be sufficient room in front of the player for the disc tray to be opened.

- In cabinet, allow about 2.5cm (1 inch) of free space all around the player for adequate ventilation.
- Do not expose your player to extreme of temperature or humidity.
- If the DVD player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the DVD player. Should this occur, the DVD player would not operate normally. Leave the power on for about one hour with no disc in the DVD player until normal playback is possible.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- **When the DVD player is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

Symbols Used in this Manual

The below symbols appear in some headings and notes with the following meanings:

	– Description refers to playback of DVD-video discs
	– Description refers to playback of Video CDs
	– Description refers to playback of Audio CDs
	– Description refers to playback of Super Audio CDs

Helpful Hints!

- **Some DVD video discs require specific functions or allow only limited functions during playback.**
- **“X” may appears on the TV screen which means that the function is not available on that specific DVD video disc.**

Reality reproduced: Super Audio CD

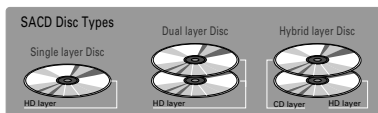
The future in digital sound reproduction is no longer limited to a closely simulating of reality. The new audio standard IS reality! The human ear is no longer capable of distinguishing audible reality from digital reproduction. At Philips the future starts today with the Super Audio Compact Disc player. 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.

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.

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 a DVD laser. The bottom reflective layer with conventional CD sound is read by the CD laser through the second, semi-transmissive HD layer:



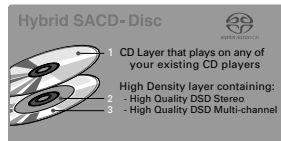
SACD: reality in sound...and vision

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.

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.



Functional Overview

Front Panel

STANDBY-ON

– to switch the player to standby mode or ON

STANDBY INDICATOR

– lights red when the player is in Standby mode

SMART PICTURE

– to access the colour settings menu bar

SOUND

– selects required sound mode

- for SACD: CD, Stereo or Multi-channel (if available)
- for DVD/VCD: Stereo, Dolby Surround-compatible, 3D sound or Multi-channel

MENU

– to access menu of a DVD disc

◀ ▶ ▲ ▼ (left/right/up/down)

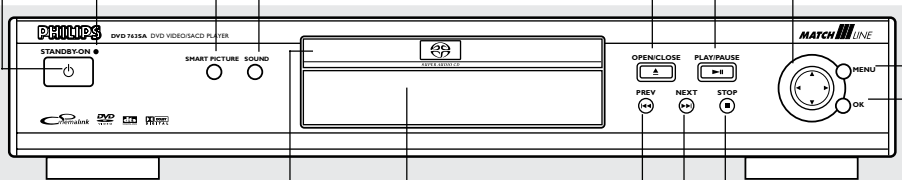
– navigation keys to select an item in the

▶|| PLAY/PAUSE

– to start or interrupt playback

▲ OPEN/CLOSE

– to open/close the disc tray



DISPLAY

– shows the current status of the player

Disc Tray

◀◀ PREV

– goes to previous chapter or track

▶▶ NEXT

– goes to next chapter or track

■ STOP

– to stop playback

OK

– to acknowledge menu selection

Rear Panel

MULTICHANNEL AUDIO OUT

(For connection to a multichannel receiver)
 – center speaker; subwoofer; front and surround speakers connection

AUDIO OUT (Left/Right)

– connect to AUDIO inputs of an amplifier, receiver or stereo system

CVBS (VIDEO OUT)

– connect to CVBS Video inputs of a TV

MAINS (AC Power Cord)

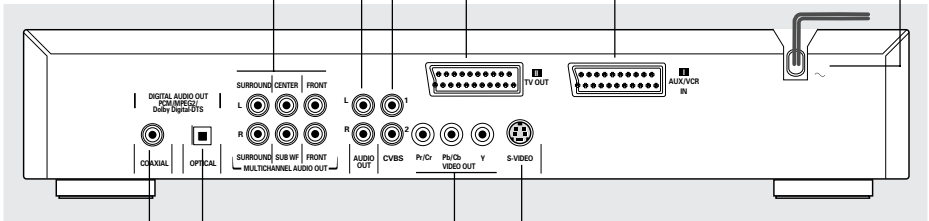
– connect to a standard AC outlet

AUX/VCR IN (VIDEO OUT)

– connect to a VCR with SCART

TV OUT (VIDEO OUT)

– connect to a TV with SCART



OPTICAL (Digital audio out)

– connect to digital (optical) audio equipment

COAXIAL (Digital audio out)

– connect to AUDIO inputs of a digital (coaxial) audio equipment

Pr/Cr Pb/Cb Y VIDEO OUT

– connect to a TV with Pr/Cr Pb/Cb Y (component video) inputs

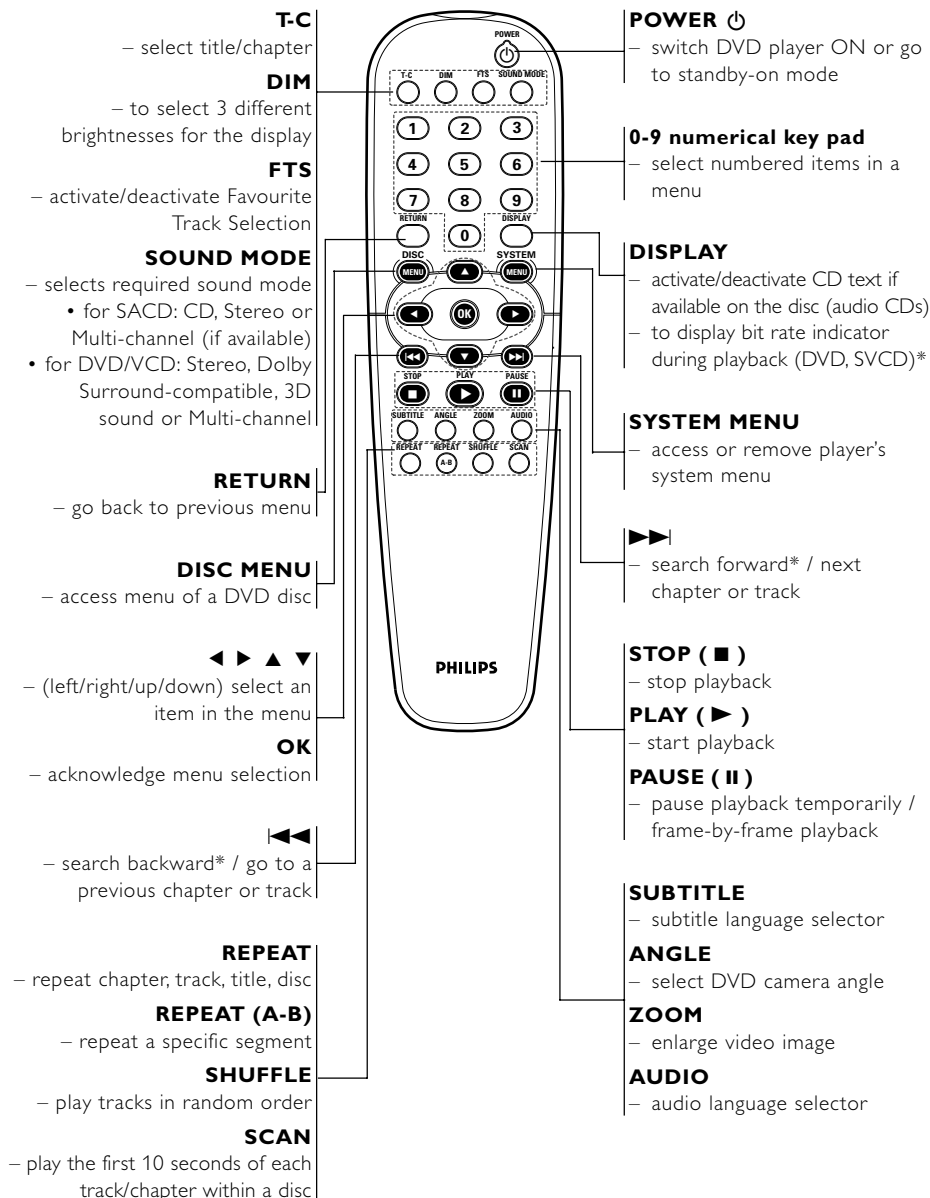
S-VIDEO OUT

– connect to a TV with S-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.

Functional Overview

Remote Control



* Press and hold key for about two seconds

Basic Connections

- Please refer to the instruction books of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- Make one of the following connections, depending on the capabilities of your existing equipment.

The following guidelines are options for the best picture and sound quality available on your DVD/SACD player.

Picture

- 1 Use the CVBS Video Output for good picture quality.
- 2 Use S-Video Output for the better picture quality.
- 3 Use SCART or Pr/Cr Pb/Cb Y Output for best picture quality.

Note:

- RGB (on SCART) and YUV (Pr/Cr Pb/Cb Y) output signals are not available at the same time.
- To choose your preferred output connection, refer section "Personal Preferences - RGB/YUV switching".

Sound

- 1 Digital audio connections provide the clearest sound. Connect the DVD player's DIGITAL AUDIO OUT (either COAXIAL or OPTICAL) to your amplifier or receiver.
 - Note:
 - Digital output is not available for SACD and MP3 discs.
- 2 If digital connections are not possible, connect the DVD player's LEFT/RIGHT FRONT, CENTRE, SUBWOOFER, LEFT/RIGHT SURROUND connectors to the corresponding inputs on your multi-channel audio/video receiver.
- 3 If both the above connections are not possible, connect the DVD player's Left and Right (white and red) AUDIO OUT to your amplifier, receiver, stereo or TV.

Warning!

- Never make or change connections with the power switched on.
- Connect the DVD/SACD player directly to your TV, instead of eg. a VCR, to avoid distortion because DVD video discs are copy protected.
- Do not connect the DVD/SACD player AUDIO OUT to the PHONO IN of your amplifier or receiver.

Connecting to a TV

- 1 Connect the SCART (TV OUT) on the DVD player to the corresponding connector on the TV.

Note:

- Ensure that the "TV" indication on SCART cable is connected to the TV set and "DVD" indication on SCART cable is connected to the DVD player.

If your TV is not equipped with SCART input, you can select the following connection:

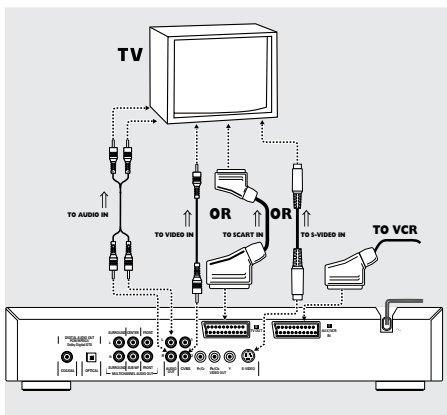
If your TV has a CVBS Video input connector,

- 1 Connect the CVBS VIDEO OUT on the DVD player to the CVBS VIDEO IN on the TV.
- 2 Connect the Left and Right AUDIO OUT on the DVD player to the Left and Right AUDIO IN on the TV.

If your TV has a S-Video input connector,

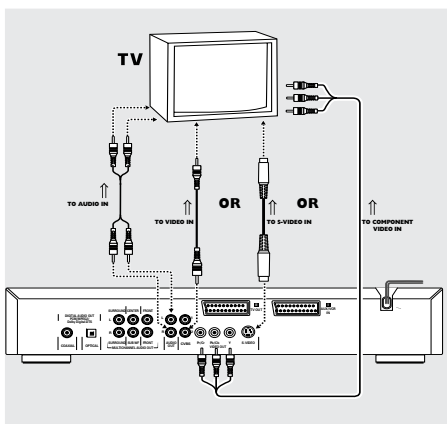
- 1 Connect the S-VIDEO OUT on the DVD player to the S-VIDEO IN on the TV.
- 2 Connect the Left and Right AUDIO OUT on the DVD player to the Left and Right AUDIO IN on the TV.

Preparation



If your TV has a component video (Pr/Cr Pb/Cb Y) input connector,

- 1 Connect either S-Video or CVBS video out jack to TV.
- 2 Turn on the TV and go to Personal Preference menu (see *Personal Preference*).
- 3 Change the video output from RGB (default) to YUV (Pr/Cr Pb/Cb Y).
- 4 Connect the Pr/Cr Pb/Cb Y VIDEO OUT jacks on the DVD player to the corresponding INPUT on the TV using an optional Pr/Cr Pb/Cb Y cable.
- 5 Connect the Left and Right AUDIO OUT jacks of the DVD player to the AUDIO Left/Right INPUT on the TV.



Cinematiclink (on SCART)

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

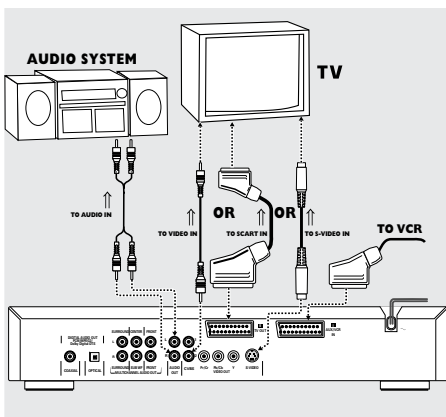
Cinematiclink interconnection plug & playback will enable the AV system to recognise the users intention and automatically switch the necessary controls or input source accordingly. This will reduce the necessity of having multiple control inputs for all AV equipments (eg. TV and Amplifier).

Connecting to an Audio System

- 1 You can also listen to the sound of audio CDs, stereo SACDs and DVD Video discs by connecting to an optional stereo system.
- 2 Connect the FRONT LEFT/RIGHT AUDIO OUT on the DVD player multichannel audio output to the Left and Right AUDIO IN on the stereo system.

Important:

– For the best sound quality with playback of audio CDs and stereo SACDs, always use the left and right connectors 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.



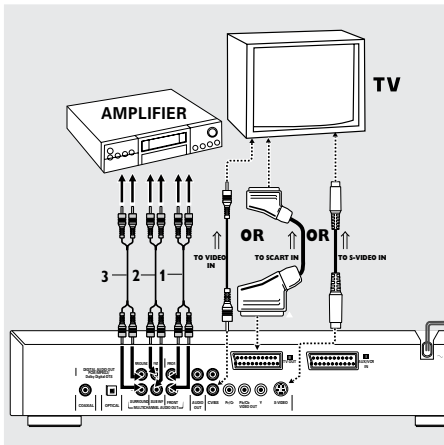
Connecting to a Multi-channel Audio/(Video) receiver with 6 connectors

This DVD/SACD player contains a multi-channel decoder. This enables playback of SACDs & DVDs 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 outputs for Center speaker and Subwoofer connection (2) to the corresponding inputs on your receiver using an optional audio cable.
- 3 Connect the audio Left and Right outputs for Surround speaker connection (3) 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.



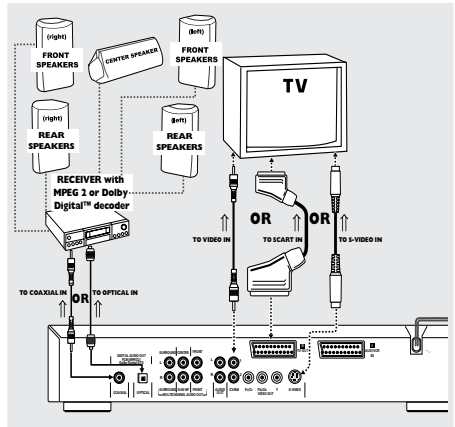
Connecting to a Digital Audio Equipment

If your receiver has an Dolby Digital, DTS or MPEG2 decoder,

- 1 Connect the COAXIAL or OPTICAL DIGITAL AUDIO OUT of the DVD player to the COAXIAL or OPTICAL DIGITAL AUDIO IN on your receiver.
- 2 Set the DVD player's digital output to ALL (see "Personal Preferences")

Notes:

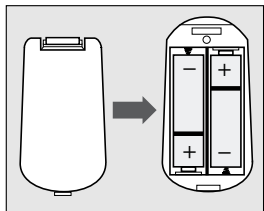
- SACD audio is NOT available on the Digital audio output (coaxial or optical) as per the SACD standard.
- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- MP3 Audio is not available on the Digital Output.



Preparation

Inserting batteries into the Remote Control

- 1 Open the battery cover.
- 2 Insert batteries (AA size) with the correct polarity as indicated by the + and - symbols inside the battery compartment.
- 3 Close the cover.



CAUTION!

- Remove batteries if they are exhausted or not to be used for a long time.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed off properly and kept away from children.

Using the Remote Control

- Direct the remote control at the remote sensor of the DVD/SACD player.
- Do not drop the remote control.
- Do not leave the remote control near extremely hot or humid places.
- Do not spill water or put anything wet on the remote control.

Switching On

- 1 Connect the AC power cord to the power outlet.
- 2 Switch on the TV and DVD player.
- 3 Set the TV to the correct Video IN channel. (eg. EXT1, EXT2, AV1, AV2, AUDIO/VIDEO, etc - refer to your TV owner's manual for detail).
→ The player display lights up and the default screen appears on the TV.
- 4 If you are using an external equipment (eg. audio system or receiver), turn them on and select the appropriate input source that was used to connect to the DVD/SACD player output. Refer to the equipment owner's manual for detail.

Notes:

- If you do not have a proper picture or sound, refer to 'Troubleshooting' section.

Menu Bars on TV Screen

- Operations can be carried out directly via the multiple menu bars on the TV screen.
- The following functions are available via the menu bars. Pressing SYSTEM MENU keys repeatedly will toggle through menu bar 1, menu bar 2, menu bar 3 and menu bar OFF:

Menu bar 1



From the left,
Personal Preferences → Subtitle Language →
Audio Language → Colour → Sound

Menu bar 2



From the left,
Step by step playback → Slow motion →
Fast motion → Angle → Zoom

Menu bar 3



From the left,
Title → Chapter → Time Search →
Favourite Track Selection (FTS) → Wakeup Timer

Temporary Feedback Field Icons

These icons will appear on the top left hand corner of your TV screen.

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

Personal Preferences

In the Personal Preferences settings menu, you can customize your player to suit your own particular requirements.

General operation:

- 1 Press SYSTEM MENU on the remote control.
- 2 The will be highlighted in the menu bar.
- 3 Press to activate the Personal Preferences menu.
- 4 Use the keys to toggle through the functions and select your preferred option.
- 5 Press OK to confirm a highlighted selection. The following items are available:

Picture

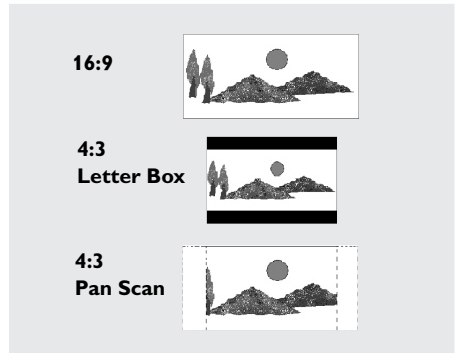
– TV Shape

Select the aspect ratio of the TV to be connected.

16:9 → when you connect a wide-screen TV to the DVD/SACD player:

4:3 LETTER BOX → when you connect a normal TV to the DVD/SACD player: Displays a wide picture with black bands displayed on the upper and lower portions of the TV screen.

4:3 PAN SCAN → when you connect a normal TV to the DVD/SACD player: Displays the wide picture on the whole TV screen with a portion automatically cut off.

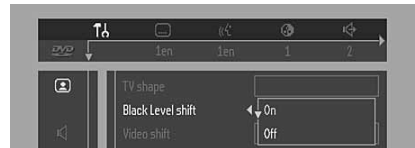


Note:

– *Pan Scan* is subject to availability on the disc.

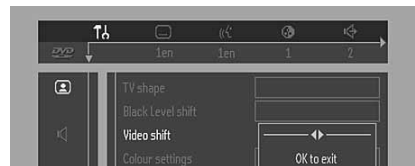
– Black level shift (NTSC output only)

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 scrolling it to the left or right.

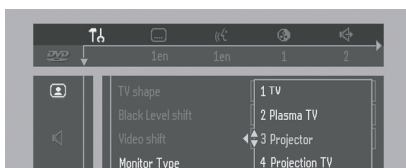


Preparation

– Monitor type selection

Allows you to select the type of display device that is connected to the DVD/SACD Video player:

For each device, a set of predefined picture settings (eg. Rich-Natural-Soft+Animation) is available. Or choose “Personal” that allows you to fine tune the brightness, saturation and contrast according to your preference.



Notes:

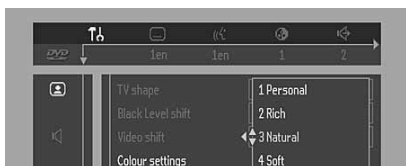
- You can select one of the following display devices: eg. TV, Plasma TV, Video Projector or Projection TV.

– Smart Picture

● Colour settings

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

You can also press SMART PICTURE key (on the front panel) to access the colour settings in the menubar:



- When **Personal** is selected it allows you to fine-tune saturation, brightness and contrast
- Use ▲ or ▼ keys to adjust the values of these parameters. Press OK or ◀ to exit.

– TV System (NTSC/PAL Conversion)

Allows you to select between PAL, NTSC and AUTO mode depending on your TV. Player's default setting is set to AUTO.

The conversions supported are as follows:

Type	Disc	Format	Output format Selected mode		
			NTSC	PAL	AUTO
DVD		NTSC	NTSC	PAL	NTSC
		PAL	Not Supported	PAL	PAL
VCD		NTSC	NTSC	PAL	NTSC
		PAL	NTSC	PAL	PAL

- 1 In the Personal Preferences Menu, select **TV System**.
- 2 Press ▲ or ▼ to select PAL, NTSC or AUTO.

Notes:

- If you have a PAL-only TV, ensure that your PAL/NTSC setting is PAL.
- AUTO can only be selected when using a TV that support both the NTSC and PAL systems.
- This setting is applicable for CVBS output on cinch and SCART only.
- Slight picture distortions may occur due to this conversion. This is normal. Thus, the AUTO format is most suitable for the best picture quality.

– RGB/YUV switching (Video Output)

This setting allows you to toggle the output of the video signal between RGB(on scart) and Y PrCr PbCb (YUV).

Warning:

When the player is set to Y PrCr PbCb (YUV), some TV may not properly synchronise with player on the SCART connector.

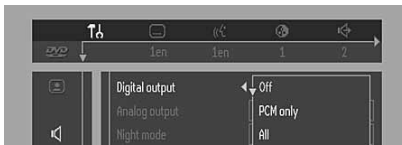
Sound

– Digital output

- Digital output selection enables you to specify the type of digital output suitable for your receiver.
- Select ALL (default setting), if you had connected your DIGITAL AUDIO OUT to a multichannel decoder/receiver.
- Select PCM only if your receiver is not capable of decoding multichannel audio.
- Select OFF to deactivate the DIGITAL AUDIO OUT.

Note:

- *Digital output is not available for SACD and MP3 discs.*



– Analogue output

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 DTS decoding or 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.

Stereo: In this setting, the 5.1 audio channels are down-mixed to a stereo signal. Select this setting when connecting to a TV, stereo amplifier/receiver, etc.

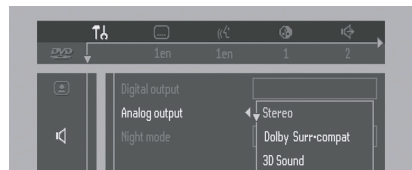
Notes:

- **Multichannel output and downmixed stereo output are not available simultaneously.**
- **When multichannel is selected as analog output, the AUDIO OUT (Left/Right) will deliver the Centre channel data and not the downmixed Left/Right.**

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, DTS) 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

When set to ON, the dynamics of your sound output are optimised. High volume outputs are softened, enabling you to watch your favourite action movie without disturbing others.

– PCM Output

Allows to select PCM digital output between 48kHz and 96kHz. When 48kHz has been selected, 96kHz PCM data, (if available on disc) will be converted to 48kHz. Some 96kHz DVD are copy protected. If your PCM output selection is 96kHz, the digital output will be muted to comply with the standards. In such cases, select 48kHz to enable digital output.

– Karaoke vocal

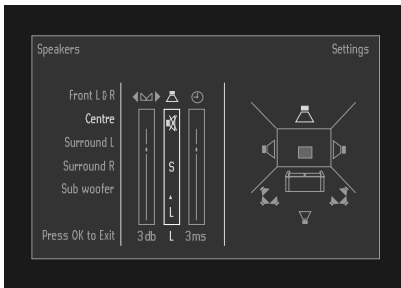
Put this setting to ON only when a multi-channel karaoke DVD is being played. The karaoke channels on the disc will then be mixed into a normal stereo sound.

Preparation

– Speaker settings

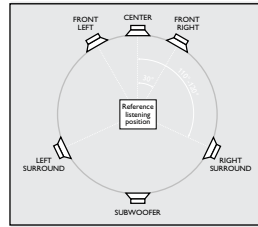
Allows you to select speaker settings, volume balance and delay time, and to test the speaker settings.

Speaker settings are only active on the Multi-Channel Audio outputs for both DVD and SACD. Speaker settings will not be applied during playback in the SACD Stereo mode.



Subwoofer

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



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

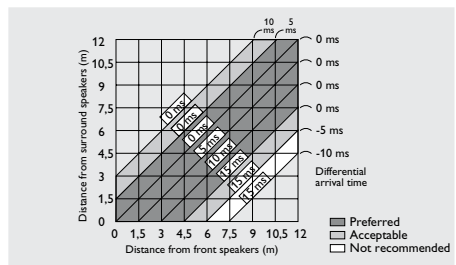
Delay times

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

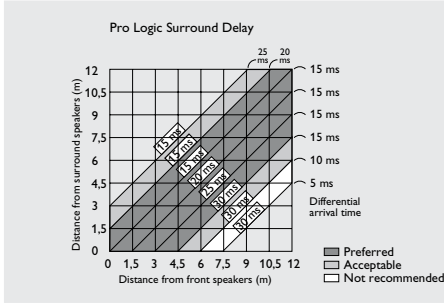
Measure the distances in centimeters from the front speaker plane and from the surround speaker plane to the listening positioning plane. Subtract the surround distance from the front distance and divide by 30. The result is the required Surround Channel delay time in milliseconds.

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



Language

Selecting disc languages:

Menu/Audio/Subtitle language

- This is to select the audio language, subtitle language and the language used in TV screen menus or DVD menus which will always be used for every disc to be played back.
- If the language selected is not available on the disc, the default language designated by each disc will be selected.

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' section).

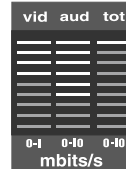
– Status Window

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



– Bit Rate Indicator

Press the **DISPLAY** key to activate the bit rate indicator. When activated, the bit rate for video and audio, as well as the total bit rate is displayed. This is only applicable during playback of DVD and SVCD discs.



– Help text

When set to ON, help text describes the icons selected. Select OFF if you no longer require the help text.

– Beeper

The beeper can be set to ON or OFF.

– PBC (Playback Control - for VCD)

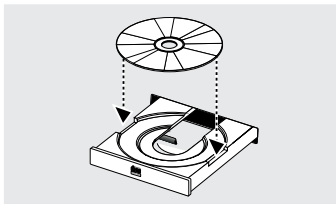
The Playback Control can be set to ON or OFF (see section "Special VCD & SVCD Features" for details).

– Smart Power OFF

Puts the set to standby after a predefined time. This can be set to ENABLE or DISABLE.

Basic Playback

- 1 Press **STANDBY ON** on the front panel.
- 2 Press **OPEN/CLOSE** \blacktriangle on the front panel to open disc loading tray.
- 3 Place the chosen disc in the tray, with the label facing up.
- 4 Press **OPEN/CLOSE** \blacktriangle again to close the tray.
→ **READING** appears in the status window and on the player display, and playback starts automatically.



Notes:

- DVDs may have a region code. Your player will not play discs that have a region code different from the region code of your player.
- If 'Child Lock' is set to ON and the disc inserted is not authorised, the 4-digit code must be entered and/or the disc must be authorised (see 'Access Control').

Playing a DVD-Video

- DVD video discs may have one or more TITLES, and each TITLE may have one or more CHAPTERS.
- Playback stops at the end of each TITLE.



Playing a title

- 1 Insert a disc and close the tray, playback starts automatically.
→ The TV screen and DVD player's display show the type of disc loaded, disc's information and playing time.
- 2 When the Disc Menu appears on the TV screen, use $\blacktriangleright\blacktriangleleft\blacktriangleleft$ keys or numerical keys on the remote control to select an option and continue playback.
- 3 If the titles are numbered, press the numerical keys or use the $\blacktriangledown\blacktriangle$ keys to select desired title in the menu bar.
- 4 To stop playback, press **STOP**.

Smart Resume

- In stop mode and when a disc has not been ejected,
→ Pressing **PLAY** will automatically resume playback from the point where the playback was last stopped.

To deactivate auto resume,

- Press **STOP** to stop playback.
→ The help line text appears "Press Stop again to start from beginning" for 5 seconds.
- Press **STOP** again or unload the discs, the auto resume is cancelled.

To activate auto resume,

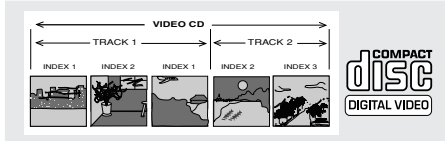
- Reload the disc and press **PLAY**.
→ Playback starts from the beginning of the title.
- When resume icon \blacktriangleright appears on the screen, press **PLAY** again.
→ Playback will resume from the point where the playback was last stopped.

Note:

- Resume feature is also applicable to VCDs and SVCDs.

Playing a Video CD

- Video CDs may have one or more TRACKS, and TRACKS may have one or more INDEXES.
- To make easy and convenient access, you can move between TRACKS and INDEXES.
- Some Video CDs have Play Back Control (PBC), which is a predefined playback sequence stored on the disc (see *Playback Control* section).



Playing a disc

- 1 Insert the disc and close the tray, playback starts automatically.
 - The number of tracks and the total playing time of the disc will appear on the TV screen and DVD player's display.
- 2 Press **PLAY**.
 - The current track number and its elapsed playing time will be displayed.
- 3 Playback will stop at the end of the disc.
- 4 To stop playback, press **STOP**.
- 5 Disc Resume feature is also applicable for VCDs and SVCDs (see "*Smart Resume*" section).

Playing a Super Audio CD

- Super Audio CDs contain only TRACKS
- Select tracks using the menu bar on the TV screen or by pressing the numerical keys directly.
- If SACD-text or CD-text is available on the disc, it will be displayed on both the TV screen and player's front panel.
- Favourite Track Selection (FTS) programming is NOT possible on SACD discs.



Playing a disc

- 1 Insert a disc and close the tray, playback starts automatically.
 - The TV screen will display the number of tracks for selection, current playing status and current playing layer.
- 2 Playback will stop at the end of the disc.
- 3 To stop playback, press **STOP**.

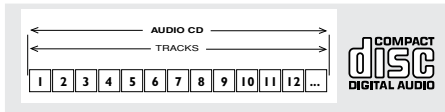
Sound Mode - SACD playback

- If the default Sound mode is set to multi channel and the inserted disc does not contain this mode, the player will automatically select the stereo mode.
 - On hybrid discs (with SACD and CD layers), the player will always start playing the SACD layer.
 - While the SACD disc is being played, the currently played layer is shown on the player front display as follows:
 - SA 6 (for SACD Multi channel)
 - SA 2 (for SACD stereo)
 - CD (for CD layer of SACD)
 - You can switch between SACD multi channel and SACD stereo layers (depending on availability of the mode on the disc) while the disc is playing by pressing the Sound Mode button on the remote control or the player front. The mode change will be indicated on the player front display.
 - Switching between the SACD and CD layer is not possible during playback.
- 1 Press **STOP** to stop the playback.
 - 2 Press Sound Mode button on the remote control or the player front to toggle between SACD multi channel, SACD stereo and CD layers (depending on availability of the mode on the disc).
 - The mode change will be indicated on the player front display.

Operation

Playing an Audio CD

- Audio CDs contain only TRACKS.
- They can be played on your DVD player with the audio output connected to a stereo system or to your TV.
- If CD-text is available on the disc, it will be displayed on both the TV screen and player's front display.
- Select tracks using the menubar on the TV screen or by pressing the numerical keys directly.
- Your DVD player also allows you to compile Favourite Track Selection (FTS) programmes for your discs by selecting or excluding tracks of your choice (see *FTS Programme - Audio CDs*).



Playing a disc

- 1 Insert a disc and close the tray, playback starts automatically.
→ The TV screen will display the number of tracks for selection and current playing status.
- 2 Playback will stop at the end of the disc.
- 3 To stop playback, press **STOP**.

Special DVD Features

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

Title/Disc menu

- 1 Press **DISC MENU**.
→ If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu will be displayed.
- 2 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.
- 3 To remove the title/disc menu, press **DISC MENU** again.

Camera Angle

Some discs contain scenes which have been shot simultaneously from various angles.

This DVD player allows you to select the desired camera angle.

- When the DVD player encounters a scene shot in multiple angles, it will give an indication on the "Temporary Feedback Field."
→ The angle icon remains displayed until multiple angles are no longer available.
- Use the **▲/▼** to select the required angle.
→ Playback changes to the selected angle.
- You can also select **↻ (ANGLE)** in the menu bar or press the **ANGLE** button on the remote control directly.

Changing the audio language

- 1 Select **⏮ (AUDIO)** in the menu bar or press the **AUDIO** button on the remote control directly.
- 2 Press **AUDIO** or **▲/▼** repeatedly to select the different languages.

Subtitle Language

- 1 Select **⏮ (SUBTITLE)** in the menu bar or press the **SUBTITLE** button on the remote control directly.
- 2 Press **SUBTITLE** or **▲/▼** repeatedly to select the different subtitles.

Special VCD & SVCD Features

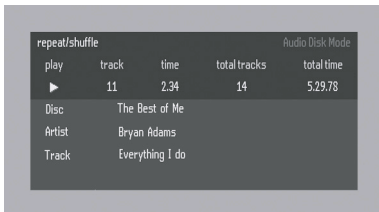
Playback Control (PBC)

- 1 Load a Video CD with PBC and press **PLAY**.
- 2 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 tracks, you can select a track directly.
- 3 Enter your choice with the numerical keys (0-9).
- 4 Press RETURN to go back to the previous menu, if applicable on the menu.
- 5 You may also select **PBC OFF** under Personal Preferences.
 - When set to OFF, PBC menus are not activated for further playback.

Special CD, SACD & MP3 Features

CD text, SACD text and MP3 text

- 1 Some CD, SACD or MP3-CD discs may contain text information (eg. track name, album name, artist name etc.) which will appear on the DVD/SACD player and TV screen during playback.
- 2 By default, CD text display is set to ON.
- 3 To switch off the CD text display, press DISPLAY on the remote control during playback.
- 4 Press DISPLAY on the remote control again to switch on the text display mode.



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 TV screen.

Moving to another title/chapter

DVD VCD

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

- 1 Press **SYSTEM MENU**, then select T or C in the menu bar.
- 2 Press ▲▼ or numerical keys to select a title/ chapter.

CD SACD

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

Search

DVD VCD






- 1 Select (FAST MOTION) in the menu bar and press ▼.
- 2 Use the ◀▶ keys to select the required speed: -32, -8 or -4 (backward), or +4, +8, +32 (forward).
- 3 Select 1 to play the disc at normal speed again.
- 4 To exit FAST MOTION mode, press **PLAY** or ▲.

CD SACD






- To search forward or backward through different speeds, you can also hold down ►| or |◀◀ for more than two seconds.

Operation

Slow Motion

- 1 Select  (SLOW MOTION) in the menu bar and press .
→ Playback will pause.
- 2 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).
- 3 Select 1 to play the disc at normal speed again.
- 4 If  is pressed, the speed will be set to zero (PAUSE).
- 5 To exit slow motion mode, press **PLAY**.

Still Picture and Frame-by-frame playback

- 1 Select  (STEP) in the menu bar and press .
→ Playback will pause.
- 2 Use the cursor keys   to select the previous or next picture frame.
- 3 To exit step by step playback, press **PLAY** or .

Note:

– You can also activate frame-by-frame playback by pressing the **PAUSE** key repeatedly on the remote control.

Scan

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

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

Repeat

Repeat chapter/title/disc

- To repeat the current chapter, press REPEAT.
→ **REPEAT CHP** appears on the front display.
- To repeat the current title, press REPEAT a second time.
→ **REPEAT TTL** appears on the front display.
- To repeat the entire disc, press REPEAT a third time.
→ **REPEAT DISC** appears on the front display.
- To exit Repeat mode, press REPEAT a fourth time.

Repeat track/disc

- To repeat the current track, press REPEAT.
→ **REPEAT TRK** appears on the front display.
- To repeat the entire disc, press REPEAT a second time.
→ **REPEAT DISC** appears on the front display.
- To exit Repeat mode, press REPEAT a third time.

Repeat A-B

– **DVD-Video Discs:** repeat a sequence in a title

– **Video and Audio CDs:** repeat a sequence in a track

- 1 Press REPEAT A-B at your chosen starting point.
- 2 Press REPEAT A-B again at your chosen end point.
→ **REPEAT A-B** appears briefly on the front display, and the repeat sequence begins.
- 3 To exit the sequence, press REPEAT A-B.

Shuffle

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


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

This shuffles the playing order of tracks within a disc, if the disc has more than one tracks.

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

Time search **DVD** **VCD**

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


- 1 Select  (TIME SEARCH) in the menu bar and press \blacktriangledown .
 → Playback will pause.
 → The elapsed playing time is displayed in a time edit box.
- 2 Enter hours, minutes and seconds from left to right in the time edit box using remote control numerical key pad.
 → Each time an item has been entered, the next item will be highlighted.
- 3 Press OK to confirm the selected time.
 → The time edit box will disappear and playback starts from the selected time position on the disc.



- 4 Press SYSTEM MENU to remove the menu bar.

Zoom **DVD** **VCD**

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

- 1 Select  (**ZOOM**).
- 2 Press $\blacktriangle/\blacktriangledown$ to activate the **ZOOM** function and select the required zoom factor: 1.33 or 2 or 4.
 → Playback will continue.
 → The selected zoom factor and 'Press OK to pan' appears below the menu bar.
 → The zoomed picture will appear on the TV screen.
- 3 Press OK to confirm the selection.
 → The panning icon appears on the screen.
- 4 Use the $\blacktriangle\blacktriangleright\blacktriangle\blacktriangledown$ keys to pan across the screen.
- 5 When OK is pressed only the panned picture will be shown on the screen.
- 6 To exit **ZOOM** mode, select zoom factor to "Off" (zoom factor 1) in the menu bar.





FTS Video/Audio Programme

- Favourite Track Selection (FTS) list contains up to 20 items (titles, chapters).
- The most recent programme list will be placed on top of the existing list.

DVD **VCD**


Storing a Programme

- 1 While playback is stopped, select **VIDEO FTS**  in the menu bar.
- 2 Press \blacktriangledown to open the menu bar.
 → The **VIDEO FTS**  menu appears.
- 3 Press \blacktriangleright or \blacktriangleleft or FTS (*on the remote control*) to select ON.


Storing titles/tracks

- 1 Press \blacktriangledown to select **TITLES/TRACKS**.
- 2 Use \blacktriangleright and \blacktriangleleft to select the require title/tracks.
- 3 Press OK to store the entire selected title/tracks.
 → The title number will be added to the list of selections.

Storing chapters/indexes

- 1 Press \blacktriangledown on the selected chapter/indexes number.
 → The chapter/indexes number will be highlighted.
- 2 Use \blacktriangleright and \blacktriangleleft to select the required chapter number.
- 3 Press OK to confirm the selection.
 → The selected chapter/indexes confirmation will be added to the list of selections.
- 4 Press SYSTEM MENU to exit the **VIDEO FTS**  menu.

Erasing a selection in a Programme

- 1 While playback is stopped, select **VIDEO FTS**  in the menu bar.
- 2 Use \blacktriangledown to select **PROGRAM**.
- 3 Use \blacktriangleright and \blacktriangleleft to select the required number.
- 4 Press OK to erase the selection.
- 5 Press SYSTEM MENU to exit.

Operation

Erasing all selections

- 1 While playback is stopped, select **VIDEO FTS** in the menu bar.
- 2 Use ▼ to select **CLEAR ALL** and press OK.
→ All selections will be erased.
- 3 Press SYSTEM MENU to exit.



Storing a Programme

- 1 Load a disc and stop playback.
- 2 Press ▼ to go to the list of available tracks.
- 3 Use ► and ◀ to select the required tracks or directly using remote control numeric key.
- 4 Press OK to store the selected tracks.
→ The track number will be added to the list of selections.

Switching a Programme ON/OFF

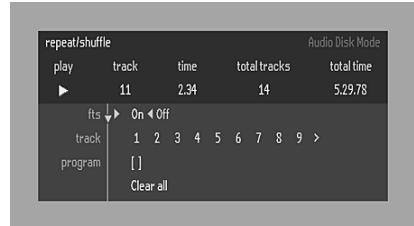
- 1 Use ▲▼ to move and select desired tracks.
- 2 Press ► or ◀ to select either ON or OFF.

Erasing a track in a Programme

- 1 Use ▼ to go to the programmed tracks.
- 2 Press ► and ◀ to select the required number.
- 3 Press OK to erase the selection.
- 4 Press SYSTEM MENU to exit.

Erasing all selections

- Use ▼ to select **CLEAR ALL** and press OK.
→ All selections will be erased.




Note:

- Audio track programming function is not available for MP3-CD and SACD discs.

Auto Wake-up Timer

The wake-up timer allows your player to turn on after a preset time.

- 1 Select  in the menu bar.
- 2 Press ▼.
- Time edit box will appear.
- 3 Use the ▲ or ▼ to select the sleep time. The maximum time you can select is 600 minutes. Selection is made by 30 minutes steps each time.
- 4 Press OK to confirm the selection.
- 5 The Wake-up Timer will activate when the set is switched to standby-mode.



MP3 Disc Features

Support following MP3-CD formats (ISO9660 format):

- Max. 30 characters
- Max. nested directory is 8 levels
- The max. ALB number is 32
- Supported VBR bit-rate
- Supported sampling frequencies for MP3 disc are: 32 kHz, 44.1 kHz, 48 kHz
- Supported Bit-rates of MP3 disc are: 32, 64, 96, 128, 192, 256 (kbps)

Following formats can't be supported

- The files like *.WMA, *.AAC, *.DLF, *.M3U, *.PLS
- Chinese filenames
- The non-session closed discs
- The discs recorded under UDF format

Downloading MP3 files from the Internet or copying songs from your own legal discs is a delicate process.

Sound Quality	Bit Rate	Approximate Reduction Ratio	Approximate total MP3-CD time	Comment
AM radio	32 kbps	40 : 1	40 hrs	Sound quality significantly affected
FM radio	64 kbps	20 : 1	20 hrs	- not recommended.
Near-CD	96 kbps	15 : 1	15 hrs	Balanced sound quality - compression rate
CD-like	128 kbps	10 : 1	10 hrs	
CD*	256 kbps	5 : 1	5 hrs	Compression rate: low
CD*	320 kbps	3 : 1	3 hrs	- suggest to play CDs instead

You may experience an occasional "skip" while listening to your MP3 files. This is normal.

Additional note for MP3 disc Playback:

- In compliance with the SDMI, digital-out is muted while playing MP3 discs.
- Due to the recording nature of Digital Audio MP3 (DAM), only Digital Audio music will play.
- The disc reading time may exceed 10 seconds due to the large number of songs compiled onto one disc.
- For multi-session discs, only the first session will be available.

Album/Title

This feature allows you to view and select the next or previous MP3 disc Album/Title.

- 1 Press ▲/▼ to scroll through the previous or next Album.
- 2 Press ◀▶ to scroll through the previous or next Track.
- 3 You can also select the desired album/track number directly using the numeric keys on the remote control.

Note:

- **In STOP mode:** numbers are used for ALBUM selection.
- **In PLAY mode:** numbers are used for TRACK selection.



- Only the following functions are possible for MP3 discs:
 - STOP / PLAY / PAUSE
 - SKIP NEXT / PREVIOUS
 - REPEAT (TRACK / ALBUM / DISC)

MP3 Discs - Album/Track/Disc

- To repeat a track, press REPEAT.
 - ➔ REPEAT TRK appears on the player display.
- To repeat an album, press REPEAT a second time.
 - ➔ REPEAT ALBM appears on the player display.
- To repeat the entire disc, press REPEAT a third time.
 - ➔ REPEAT DISC appears on the player display.
- To exit REPEAT mode, press REPEAT a fourth time.
 - ➔ REPEAT OFF appears on the player display.

Child Lock **DVD** **VCD**

Activating/deactivating the Child Lock

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the Personal Preferences menu using the **▲/▼** keys.
- 2 Enter a 4-digit code of your own choice twice.
- 3 Move to "**CHILD LOCK**" using the **▲/▼** keys.
- 4 Move to **ON** / **OFF** using the **▶** keys.
- 5 Select **ON** using the **▲/▼** keys.
- 6 Press **OK** or **◀** to confirm, then press **◀** again to exit the Personal Preferences menu.
→ Now unauthorised discs will not be played unless the 4-digit code is entered.
- 7 Select **OFF** to deactivate the **CHILD LOCK**.

Notes:

Confirmation of the 4-digit code is necessary when:

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



Authorising discs

- 1 Insert the disc.
→ The 'child safe' dialog will appear.
- 2 You will be asked to enter your secret code for 'Play Once' or 'Play Always'.
 - If 'Play Once', disc can be played when in the player and the player is ON.
 - If 'Play Always', disc will become authorised and can always be played, even if the Child Lock is set to ON.

Notes:

– The player memory can maintain 120 authorised ("Child safe") disc titles. A disc will be placed in the list when 'Play Always' is selected.

- Each time a 'child safe' disc is played, it will be placed on top of the list. When the list is full, the last disc in the list will be replaced when a new disc is added.
- Double-sided DVDs and multi-volume VCDs may have a different ID for each side. In order to make the disc 'child safe', each side has to be authorised.

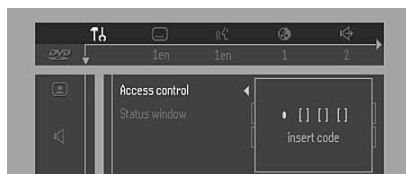


Deauthorising discs

- 1 Insert the disc.
→ Playback starts automatically.
- 2 Press **■** while **☺** is visible.
→ The **☺** will appear and the disc is now deauthorised.

Parental Control **DVD**

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 When disc playback is stopped, select **ACCESS CONTROL** in the Personal Preferences 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.

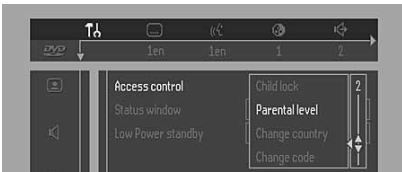
Rating 0 (displayed as ‘- -’):

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 which has the same rating or lower is available on the disc. 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 Personal Preferences menu.



Country

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the Personal Preferences 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 Personal Preferences menu using the ▲/▼ keys.
- 2 Enter the current 4 digit code.
- 3 Move to **CHANGE CODE** using the ▼ and press the ► key.
- 4 Enter the new 4-digit code.
- 5 Enter the code a second time and reconfirm by pressing OK.
- 6 Press ◀ to exit the menu.
→ The new 4 digit code will take effect.

If you forget your 4 digit code

- 1 Press ■ to exit the 'Child Safe' screen.
- 2 Select **ACCESS CONTROL** in the Personal Preferences 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 in 'Changing the 4 digit code'.

Parental Control Disclaimer

This DVD/SACD player features the **PARENTAL CONTROL** system which is to activate when playing DVD discs furnished with certain software coding only.

Also note that at the time of release of this DVD/SACD 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 the **PARENTAL CONTROL** system and denies any liability associated with unintended watching of disc content.

If in doubt, please make sure the disc plays according to your **PARENTAL CONTROL** settings before you allow children access to the player.

Specifications

PLAYBACK SYSTEM

DVD Video
SACD multi channel and SACD stereo
Video CD & SVCD
CD (CD-Recordable and CD-Rewritable)
MP3 CD

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

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

VIDEO PERFORMANCE

RGB (SCART) output	0.7Vpp into 75 ohm
YUV output	Y: 1Vpp into 75 ohm Pr/Cr Pb/Cb: 0.7Vpp into 75 ohm
S-Video output	Y: 1Vpp into 75 ohm C: 0.3Vpp into 75 ohm
Video output	1 Vpp into 75 ohm
Black Level Shift	On/Off
Video Shift	Left/Right

AUDIO FORMAT

DSD	Multichannel and Stereo
MPEG/	Compressed Digital
Dolby Digital	16, 20, 24 bits
DTS/PCM	fs, 44.1, 48, 96 kHz
MP3	96, 112, 128, 256 kbps and (ISO 9660) variable bit rate fs 32, 44.1, 48kHz
Full decoding of Dolby Digital and DTS multi channel sound	
Analogue Stereo Sound	
Dolby Surround-compatible downmix from Dolby Digital multi-channel sound	
3D Sound for virtual 5.1 channel sound on 2 speakers	

SACD AUDIO PERFORMANCE

D/A Converter	DSD
SACD	fs 2.8224MHz DC - 100kHz
Max. output voltage (0dB)	2V rms
Channel unbalance	<0.5 dB
Cut-off frequency	50kHz (Front) 40kHz (Surround, Center; Subwoofer)
Signal-Noise (1kHz)	105 dB
Dynamic Range (1kHz)	105 dB
Crosstalk (1kHz)	105 dB
Total Harmonic Distortion (1kHz)	97 dB

AUDIO PERFORMANCE (TYPICAL)

DA Converter	24 bits	
DVD	fs 96 kHz	4 Hz - 44 kHz
CD/Video CD	fs 44.1 kHz	4 Hz - 20 kHz
S-Video CD	fs 48 kHz	4 Hz - 22 kHz
	fs 44.1 kHz	4 Hz - 20 kHz
Signal-Noise (1kHz)		100 dB
Dynamic Range (1kHz)		100 dB
Crosstalk (1kHz)		105 dB
Total Harmonic Distortion (1kHz)		97 dB
MPEG MP3		MPEG Audio L3

CONNECTIONS

SCART	2x Euroconnector
Y Pb/Cb Pr/Cr (480i)	Cinch 3x (green, blue, red)
S-Video Output	Mini DIN, 4 pins
Video Output	2x Cinch (yellow)
Audio L+R output	Cinch (white/red)
Digital Output	1 coaxial, 1 optical IEC958 for CDDA / LPCM IEC1937 for MPEG1/2, Dolby Digital, DTS

6 channel analog output

Audio Front L/R	Cinch (white/red)
Audio Surround L/R	Cinch (white/red)
Audio Centre	Cinch (blue)
Audio Subwoofer	Cinch (black)

CABINET

Dimensions (w x h x d)	435 x 77.5 x 303.5 mm
Weight	Approximately 3.1 Kg

POWER SUPPLY (UNIVERSAL)

Power inlet	110V-240V, 50/60Hz
Power usage	Approx. 23W
Power usage standby	< 1W

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

Specifications subject to change without prior notice

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe in a circular motion.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.

Cleaning the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with the cleaner.

Troubleshooting

WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair.

Problem	Solution
No power	<ul style="list-style-type: none"> – Check if the AC power cord is properly connected.
No picture	<ul style="list-style-type: none"> – Check if the TV is switched on. – Check the video connection.
Distorted picture	<ul style="list-style-type: none"> – Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or black/white picture with DVD/SACD or Video CD	<ul style="list-style-type: none"> – Make sure the NTSC/PAL setting at the DVD player matches the video signal of your television. (See NTSC/PAL Conversion/Settings)

Troubleshooting

Problem	Solution
No sound or distorted sound	<ul style="list-style-type: none">– Adjust the volume.– Check that the speakers are connected correctly.
No audio at digital output	<ul style="list-style-type: none">– Check the digital connections.– Check the settings menu to make sure the digital output is set to ALL or PCM.– Check if the audio format of the selected audio language matches your receiver capabilities.
No sound and picture	<ul style="list-style-type: none">– Check that the SCART cable is connected to the correct device (See Connecting to a TV)
Disc can't be played	<ul style="list-style-type: none">– Ensure the disc label is facing up.– Check if the disc is defective by trying another disc.
Picture freezes momentarily during playback	<ul style="list-style-type: none">– Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.
No return to start-up screen when disc is removed	<ul style="list-style-type: none">– Reset the unit by switching the player off, then on again.
The player does not respond to the remote control	<ul style="list-style-type: none">– Aim the remote control directly at the sensor on the front of the player.– Reduce the distance to the player.– Replace the batteries in the remote control.– Re-insert the batteries with their polarities (+/- signs) as indicated.
Buttons do not work or player stops responding	<ul style="list-style-type: none">– To completely reset the player; unplug the AC cord from the AC outlet for 5-10 seconds.
Player does not respond to some operating commands during playback.	<ul style="list-style-type: none">– Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD/SACD Video player cannot read CDs/DVDs	<ul style="list-style-type: none">– Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD/SACD player for repair.

If you are unable to remedy a problem by following these hints, consult your dealer or service centre.