DVD Video / SACD Player
Owner's Manual

DVD**963SA**

STOP!

Read this manual first!
Congratulations on purchasing this Philips product.
We've included everything you need to get started.
If you have any problems, Philips Representatives can
help you get the most from your new product by explaining:
• Hookups,
• First Time Setup, and
• Feature Operation.
Do not attempt to return this product to the store.

For fast help, call us first!
1-800-531-0039

Thank you for making Philips a part of your home!

IMPORTANT!
Return
your Warranty
Registration Card
within 10 days
SEE WHY INSIDE

Let's make things better.

PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

- Once your Philips purchase is registered, you're eligible to receive all the privileges of owning a Philips product.

- So complete and return the Warranty Registration Card enclosed with your purchase at once, and take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your Philips warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

PHILIPS

Hurry! REGISTRATION NEEDED WITHIN 10 DAYS PHILIPS

Congratulations on your purchase, and welcome to the "family!"

Dear Philips product owner:

Thank you for your confidence in Philips. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the Philips "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome – and thanks for investing in a Philips product.

Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your Philips product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

MAC5097

Know these *safety* symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

PHILIPS *Visit our World Wide Web Site at http://www.philips.com*

General Information

The region code for this set is 1.

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.

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

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

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

**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.**

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

WARNING
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

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

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.

Canada
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

IMPORTANT SAFETY INSTRUCTIONS

1. **Read these instructions.**

2. **Keep these instructions.**

3. **Heed all warnings.**

4. **Follow all instructions.**

5. **Do not use this apparatus near water.**

6. **Clean only with dry cloth.**

7. **Do not block any ventilation openings. Install in accordance with the manufacturer´s instructions.**

8. **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. **Do not defeat the safety purpose** of the polarized or grounding-type plug.
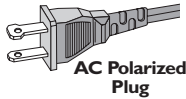
   AC Polarized Plug

   A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. **Only use attachments/accessories** specified by the manufacturer.

12. **Use only with the cart,** stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. **Unplug this apparatus** during lightning storms or when unused for long periods of time.

14. **Refer all servicing** to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. **Battery usage CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:

- Install **all** batteries correctly, **+** and **-** as marked on the unit.

- Do not mix batteries (**old** and **new** or **carbon** and **alkaline**, etc.).

- Remove batteries when the unit is not used for a long time.

EL 6475-E004: 02/8

WARNING

To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

Class II equipment symbol

This symbol indicates that the unit has a double insulation system

Contents

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 specialized 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
– CVBS cable
– Owner's Manual
– AC power cord

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.
● 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:

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

Helpful Hints!
● *Some DVD video discs require specific functions or allow only limited functions during playback.*
● *" ✕ " may appears on the TV screen which means that the function is not available on that specific DVD video disc.*
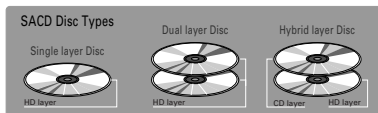
6

Reality reproduced: Super Audio CD

The future in digital sound reproduction is no longer limited to a close simulation 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 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 Disc Types
Single layer Disc · Dual layer Disc · Hybrid layer Disc
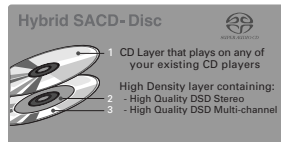HD layer · HD layer · CD layer · HD layer

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.

Hybrid SACD- Disc
1 CD Layer that plays on any of your existing CD players
2 High Density layer containing:
3 - High Quality DSD Stereo
   - High Quality DSD Multi-channel

SUPER AUDIO CD

Functional Overview

Front Panel

STANDBY-ON
– to switch the player to standby mode or ON

STANDBY INDICATOR
– lights up when the player is in Standby mode

DISPLAY
– shows the current status of the player

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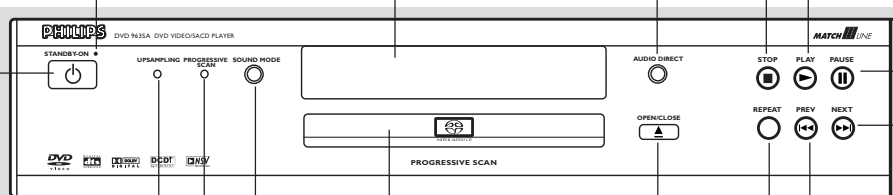– interrupts audio/video playback or moves to the next frame

► PLAY
– starts audio/video playback

■ STOP
– to stop playback

AUDIO DIRECT
– shut down video circuity to obtain better audio quality

PHILIPS DVD 963SA DVD VIDEO/SACD PLAYER   **MATCH** LINE

STANDBY-ON ●   UPSAMPLING PROGRESSIVE SOUND MODE   AUDIO DIRECT   STOP   PLAY   PAUSE
                           SCAN

OPEN/CLOSE   REPEAT   PREV   NEXT

PROGRESSIVE SCAN

Disc tray

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

PROGRESSIVE SCAN
– LED lights up when the P-Scan is ON and the output is Progressive Output

UPSAMPLING
– LED lights up when the CD upsampling is applied

▲ OPEN/CLOSE
– to open/close the disc tray
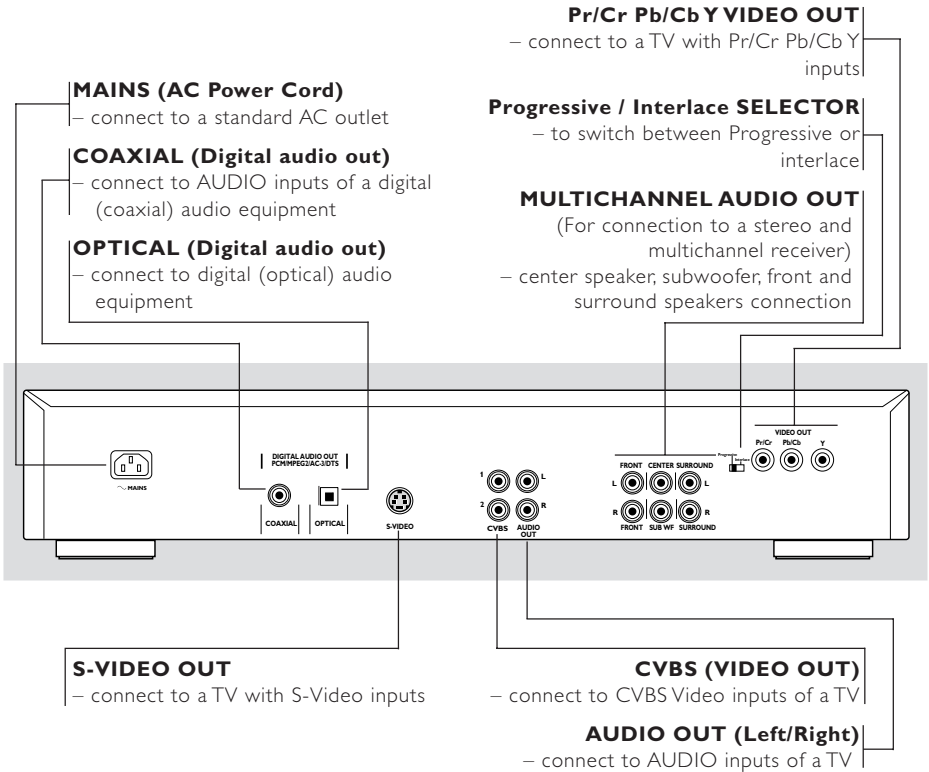
REPEAT
– repeat chapter, track, title, disc

I◄◄ PREV
– goes to previous chapter or track

►►I NEXT
– goes to next chapter or track

Rear Panel

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

MAINS (AC Power Cord)
– connect to a standard AC outlet

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

Progressive / Interlace SELECTOR
– to switch between Progressive or interlace

OPTICAL (Digital audio out)
– connect to digital (optical) audio equipment

MULTICHANNEL AUDIO OUT
(For connection to a stereo and multichannel receiver)
– center speaker, subwoofer, front and surround speakers connection

S-VIDEO OUT
– connect to a TV with S-Video inputs

CVBS (VIDEO OUT)
– connect to CVBS Video inputs of a TV
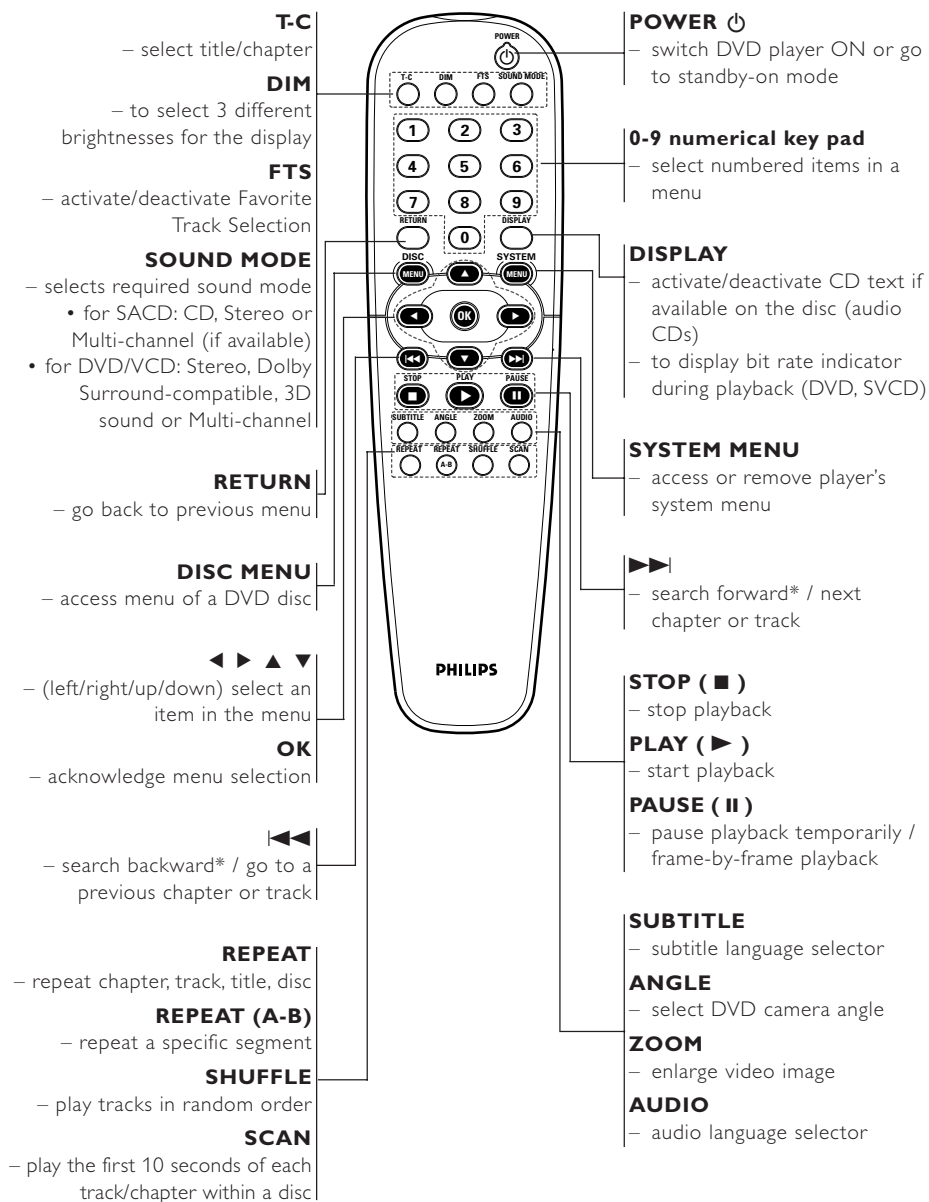
AUDIO OUT (Left/Right)
– connect to AUDIO inputs of a TV

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

T-C
– select title/chapter

DIM
– to select 3 different brightnesses for the display

FTS
– activate/deactivate Favorite Track Selection

SOUND MODE
– 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

RETURN
– go back to previous menu

DISC MENU
– access menu of a DVD disc

◄ ► ▲ ▼
– (left/right/up/down) select an item in the menu

OK
– acknowledge menu selection

|◄◄
– search backward* / go to a previous chapter or track

REPEAT
– repeat chapter, track, title, disc

REPEAT (A-B)
– repeat a specific segment

SHUFFLE
– play tracks in random order

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

POWER ⏻
– switch DVD player ON or go to standby-on mode

0-9 numerical key pad
– select numbered items in a menu

DISPLAY
– activate/deactivate CD text if available on the disc (audio CDs)
– to display bit rate indicator during playback (DVD, SVCD)

SYSTEM MENU
– access or remove player's system menu

►►|
– search forward* / next chapter or track

STOP (■)
– stop playback

PLAY (►)
– start playback

PAUSE (II)
– pause playback temporarily / frame-by-frame playback

SUBTITLE
– subtitle language selector

ANGLE
– select DVD camera angle

ZOOM
– enlarge video image

AUDIO
– audio language selector

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 Ouput for good picture quality.
2 Use S-Video Output for the better picture quality.
3 Use Component Video (Y CbPb CrPr) Output for best picture quality.

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.
2 If digital connections are not possible, connect the DVD player's LEFT/RIGHT FRONT, CENTER, 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

● Make one of the following connections, depending on the capabilities of your existing equipment.

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

1 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.
2 Connect the Left and Right AUDIO OUT jacks of the DVD player to the AUDIO Left/Right INPUT on the TV.

### Progressive / Interlace SELECTOR

This switch will change the type of signal output from the Component Video Output on the player.

Interlace:
Select this setting when connected to a standard (interlace format) TV.

Progressive:
Select progressive when you have a TV that can accept progressive signals (480/525p) to enjoy accurate color reproduction and high quality images.
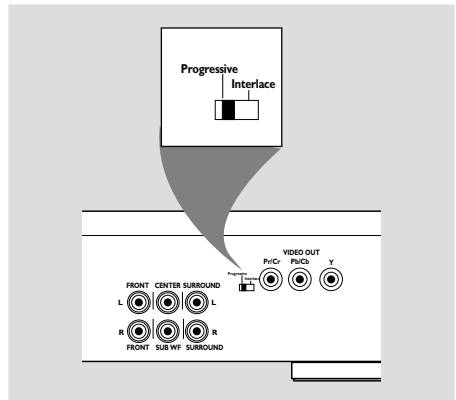
Preparation

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.
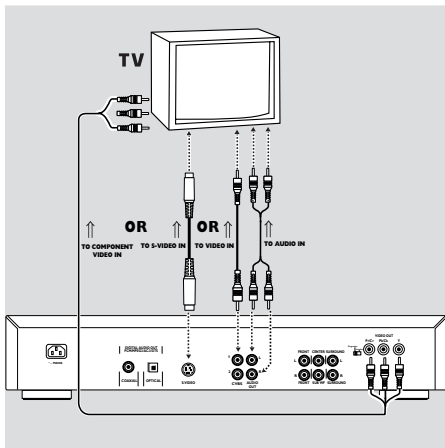
Connecting to an Audio System

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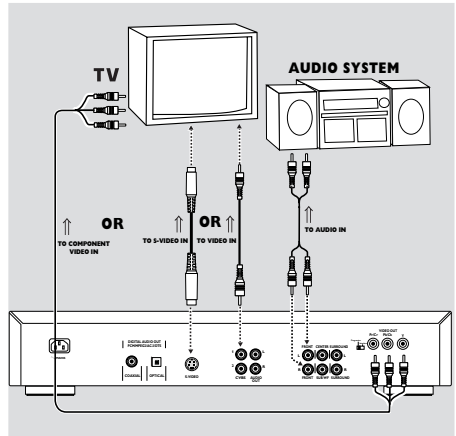
Connecting to a Multi-channel Audio/(Video) receiver with 6 connectors

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.
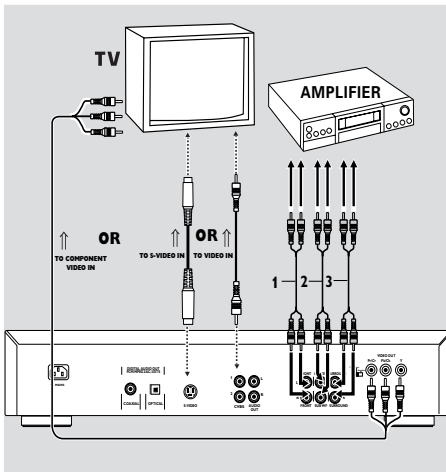
Connecting to a Digital Audio Equipment

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.

13
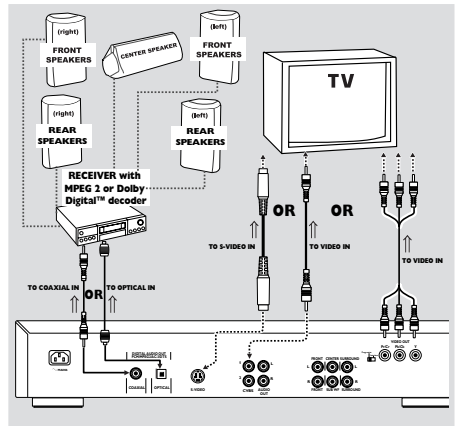
Preparation

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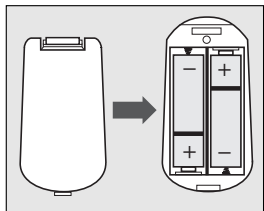
CAUTION!
– Remove batteries if they are exhausted or not to be used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed off properly and kept away from children.

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.

NTSC/PAL Conversion

DVD discs are recorded according to color system eg. NTSC and PAL. Your TV also operates according to a color system.
This DVD player is compatible with NTSC and PAL. To play on this DVD player, the color system of the DVD disc, the TV and the DVD player should match. If all three are not the same, the DVD may play in only black and white, the picture may roll continuously or the picture may appear distorted.
To activate the conversion refer to page 16.

Switching On

1 Connect the AC power cord to the power outlet.

2 Switch on the TV and DVD/SACD 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 → Color → Sound

The following functions are available with activated disc via the menu bars:

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 ➜ Favorite Track Selection (FTS) ➜ Wakeup Timer

Temporary Feedback Field Icons

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

scan	Scan	A-	Repeat A to end
repeat	Repeat All	A-B	Repeat A–B
title	Repeat Title		Angle
track	Repeat Track	locked	Child Lock On
chapter	Repeat Chapter	safe	Child Safe
shuffle	Shuffle	resume	Resume
shuffle	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 [icon] will be highlighted in the menu bar.
3 Press ▼ to activate the Personal Preferences menu.

To select a preferred menu language,
1 Press ▼ until 💬 is highlighted.
2 Press ▶ to enter the submenu and ▼ to choose Menu language.
3 Use the ▲ ▼ to select your preferred menu language.

For navigation and selection in Personal preferences,
1 Use the ◀ ▶ ▲ ▼ keys to toggle through the functions and select your preferred option.
**2** 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.
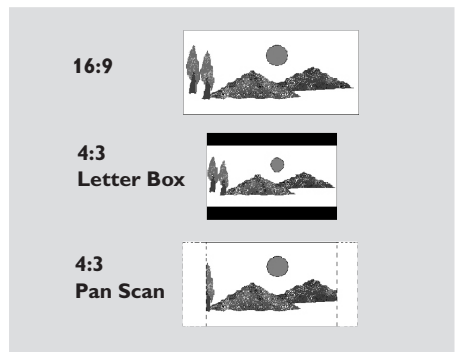
Note:
– Pan Scan is subject to availability on the disc.
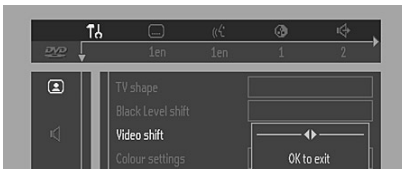
Preparation

– Black level shift (NTSC output only)

Select Normal, Black Shift or Pass Below Black for adapting the different color 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.
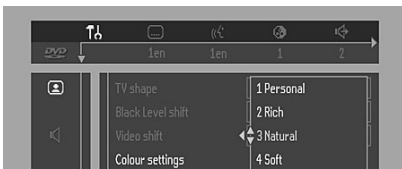

– Smart Picture

● **Color settings** (not applicable for Component Video Output)

You can select one of five predefined sets of color settings and one set (Personal) which you can define yourself.
You can also press SMART PICTURE key (on the front panel) to access the color 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:

Disc		Output format		
Type	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 TV System setting is PAL.
– AUTO can only be selected when using a TV that supports both the NTSC and PAL systems (multisystems).
– 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.

– Digital Crystal Clear (on Pr/Cr Pb/Cb Y Progressive Scan Video Out only)

Digital Crystal Clear (DCC) allows you to fine-tune the following parameters on the progressive scan output.

● **Chroma Delay** - is where the Chroma (color) and luma (brightness) signals are not synchronized. This allows you to adjust the advance delay of the chroma signal to yield a perfectly clear picture.

● **Gamma** - allows you to adjust the intensity of the picture non-linearly. A positive value allows you to bring out low level detail in dark scenes, while a negative value will emphasize contrast.

● **Sharpness** - allows you to adjust sharpness of the picture.

● **DCDi** (New Directional Correlation De-interlacing) - computes and tracks the angle of edge to fill in the missing pixel on the TV screen. Switching DCDi ON will optimize the image quality significantly, especially during the slow motion playback.

Aspect Ratio - to adjust the ratio of the pictures on the TV screen.
NO LINEAR STRETCH: for display of 4:3 image on 16:9 TV with non-linear stretching (center portion of screen is stretch less than the side).
4:3 PILLER BOX: for display of 4:3 image on 16:9 TV without stretching.
OFF: No aspect ration adjustment
● **True Life** - produces a more dynamic picture by increasing the picture contrast and the color intensity.
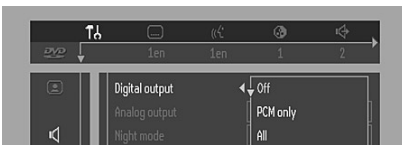
Sound

– Digital output

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

> *Note:*
> *– Digital output is not available for SACD and MP3 discs.*

– Analog output

Select Stereo, Dolby Surround-compatible, 3D Sound or 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 Center 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.
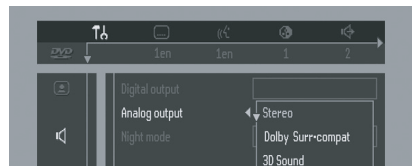
Preparation

– Night Mode

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

– 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.

– SACD Bass Management Bypass

Allows you (with suitable speaker system) to bypass the bass management system for multi-channel SACD playback.
This helps to preserve maximum sound quality of your SACD.

> **Warning!**
> **– When SACD Bass Management Bypass is ON, speaker setting will not be applied during multi-channel SACD playback.**

– 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.

– CD Upsampling

Allows you to upsample your CD from 44.1 kHz / 16 bit to various higher sampling rate for superior CD reproductions.
The selections are: OFF, 96kHz/24bits, 172kHz/24bits.
The upsampling of CD can be toggle "ON/OFF" via the AUDIO key on the remote control.
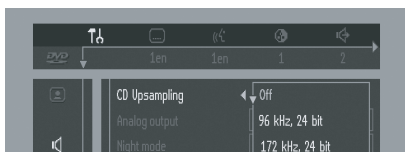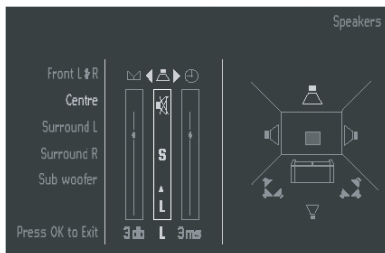

Speaker settings (Advance Bass Management)

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.
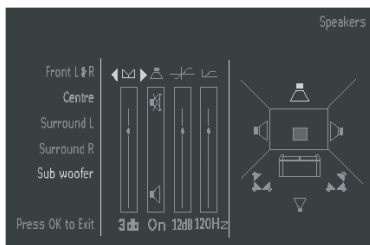
Movie mode

When movie mode is set, speaker settings will not be applied during playback in the SACD Stereo mode.

Music mode

When music mode is set, speaker settings will be applied during playback in the SACD Stereo mode only.

Additional adjustments available in SACD bass managements are:
Cross over frequency adjustment: 80Hz, 100Hz and 120Hz.
Filter slop adjustment: 12dB/oct, 18dB/oct and 24db/oct.

> **Note:**
> **– These additional adjustments are available in the subwoofer adjustments.**

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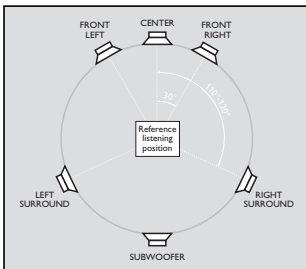
Center Speaker
L (Large): When the center speaker can reproduce low frequency signals below 120Hz
S (Small): When the center speaker cannot produce low frequency signals below 120Hz
Off: When the center speaker is not connected

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

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.
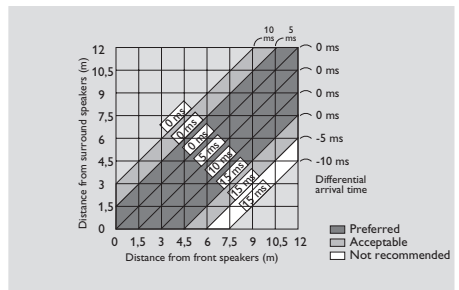
Preparation

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.
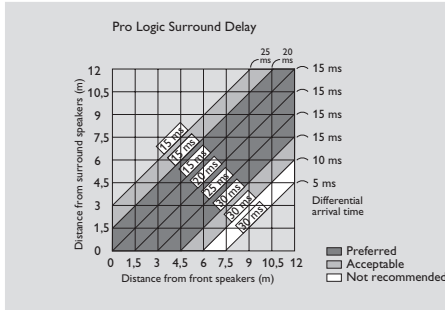
Language

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.

– PBC (Playback Control - for VCD)

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

– Help text

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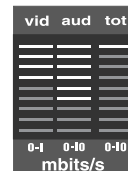
– Smart Power OFF

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

## Other Feature

– 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.

Basic Playback

1 Press STANDBY ON on the front panel.
2 Press OPEN/CLOSE ▲ 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 ▲ again to close the tray.
➜ REaDING appears in the status window and on the player display, and playback starts automatically.
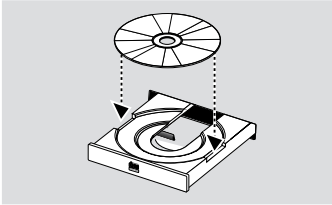
Notes:
– DVDs may have a region code. Your player will not play discs that have a region code different from the region code of your player.
– If 'Child Lock' is set to ON and the disc inserted is not authorized, the 4-digit code must be entered and/or the disc must be authorized (see 'Access Control').

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.

DVD-VIDEO DISC
TITLE 1 — TITLE 2
CHAPTER 1 CHAPTER 2 CHAPTER 1 CHAPTER 2 CHAPTER 3

DVD
VIDEO
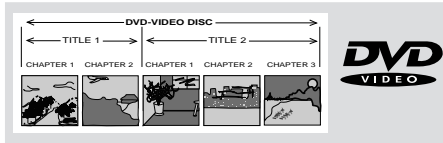
Playing a title

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 ▼▲◀ ▶ 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 ▼ ▲ keys to select desired title in the menubar.
4 To stop playback, press **STOP**.

Smart Resume

The playback of a disc can be interrupted at any point and then resumed from the point where the playback was last stopped.
The RESUME feature applies not only to the disc in the player, but also the last 20 discs you have played.

To interrupt playback,
● Press STOP to interrupt playback.
➜ The help line text appears *"Press Stop again to start from beginning"* for 5 seconds.

Playback when a disc has not been ejected,
● Pressing PLAY will automatically resume playback from the point where playback was interrupted.
OR
● Press STOP again and then press PLAY,
➜ Playback will starts from the beginning of the discs.
● If you press PLAY when resume icon appears on the screen, resume playback starts from the point where playback was interrupted.

Playback when a disc has been ejected,
● Reload the disc.
➜ Playback starts from the beginning of the disc.
● If you press PLAY when resume icon appears on the screen, resume playback starts from the point where playback was interrupted.

Note:
– Resume feature is also applicable to VCDs and SVCDs.

Operation

Video CD and Super Video CD

The current VCD 2.0 and Super Video CD 1.0 standard features are:

Support following VCD and SVCD formats:

Features	Video CDs 2.0	Super Video CDs 1.0
Video	MPEG-1	MPEG-2
bit rate	constant 1,150 Kbps	variable up to 2.6 Mbps
resolution NTSC	352x240, 29.97Hz	480x480 interlaced, 29.97Hz
resolution PAL	352x288, 25Hz	480x576 interlaced, 25Hz
Still picture (photo)	MPEG-1	MPEG-2 (1 Frame)
resolution NTSC	352x240, 704x480	480x480, 704x480
resolution PAL	352x288, 704x576	480x576. 704x576
Audio	MPEG-1 layer II	MPEG-1 layer II
sampling	44.1KHz	44.1KHz
bit rate	224Kbps	32-384Kbps
audio channels	1 stereo / 2 mono	< 2 stereo / 4 mono
surround sound	Stereo with Dolby Pro-Logic	MPEG-1 (5+1) extension
Overlay graphics/text		overlay video plane
sub-channels		<= 4
coding		4 colour CLUT (2bits/pixel)

Following formats can't be supported in VCD:

– *HQ-VCD is encoded at 2.4Mbps or 2.6Mbps*
– *XVCD (eXtended VCD) with higher resolution and data rate.*
– *The file ending with "DIVX" format.*

● 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)*.
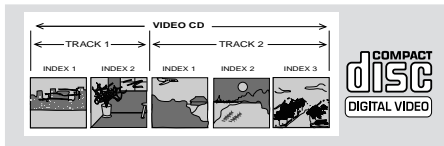
Playing a disc

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 menubar 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.
● Favorite 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.

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 display 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 Favorite Track Selection (FTS) programs for your discs by selecting or excluding tracks of your choice *(see FTS Program - Audio CDs)*.
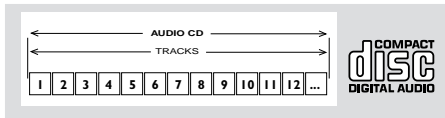
```
←————————— AUDIO CD —————————→
←——————— TRACKS ———————→
 1  2  3  4  5  6  7  8  9 10 11 12 ...
                                    COMPACT
                                    disc
                                    DIGITAL AUDIO
```

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 $\diamond$ (**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.

Operation

Special VCD & SVCD Features

Playback Control (PBC)

Playback control is a feature on some Videos CDs / Super Video CDs that enables interactive use.
Video CD discs with Playback Control features enables user to access a selected track directly from the disc menu.

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.

repeat/shuffle				Audio Disk Mode
play	track	time	total tracks	total time
▶	11	2.34	14	5.29.78
Disc	The Best of Me			
Artist	Bryan Adams			
Track	Everything I do			

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 ⊤ or ⊂ 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 currect 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 SACD

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

● To search forward or backward through different speeds, you can also hold down ►►⊦ or ⊦◄◄ for more than two seconds.

Slow Motion DVD VCD

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 �II 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 DVD VCD

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 DVD VCD CD SACD

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

DVD
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.

VCD CD SACD
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 VCD CD SACD

> *– 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.

Operation

Shuffle

DVD

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.

VCD CD SACD

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 ▼.
   ➜ 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 ▲/▼ 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 ◄ ► ▲ ▼ 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 Program

● The FTS-Video function allows you to store your favorite titles and chapters (DVD) and favorite tracks and indexes (VCD, CD) for a particular disc in the player memory.

● Favorite Track Selection (FTS) list contains up to 20 items (titles, chapters).

● The most recent program list will be placed on top of the existing list.

DVD VCD

Storing a Program

1 Load a disc and stop playback.

2 Select **VIDEO FTS** ☑ in the menu bar.

3 Press ▼ to open the menu bar.
   ➜ The **VIDEO FTS** ☑ menu appears.

Storing titles/tracks

1 Press ▼ to select **TITLES/TRACKS**.

2 Use ► and ◄ 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 ▼ on the selected chapter/indexes number.
➜ The chapter/indexes number will be highlighted.

2 Use ▶ and ◀ 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.

Switching a Program ON/OFF

1 Use ▲▼ to move and select desired tracks.

2 Press ▶ or ◀ to select either ON or OFF.

Erasing a selection in a Program

1 While playback is stopped, select **VIDEO FTS** ☑ in the menu bar.

2 Use ▼ to select **PROGRAM**.

3 Use ▶ and ◀ to select the required number.

4 Press OK to erase the selection.

5 Press SYSTEM MENU to exit.

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.

CD

Storing a Program

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 Program ON/OFF

1 Use ▲▼ to move and select desired tracks.

2 Press ▶ or ◀ to select either ON or OFF.

Erasing a track in a Program

1 Use ▼ to go to the programmed tracks.

2 Use ▶ 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.

Operation

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 – not recommended.
FM radio	64 kbps	20 : 1	20 hrs	
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 – suggest to play CDs instead
CD*	320 kbps	3 : 1	3 hrs	

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 with different formats, only the first session will be available.

Album/Title Playback

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.

			MP3 • Audio Mode
play	album	track	time
▶	11	42	2.34

● 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 🔒 / 🔓 using the ▶ keys.

5 Select 🔒 using the ▲/▼ keys.

6 Press OK or ◀ to confirm, then press ◀ again to exit the Personal Preferences menu.
→ Now unauthorized discs will not be played unless the 4-digit code is entered.

7 Select 🔓 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'),
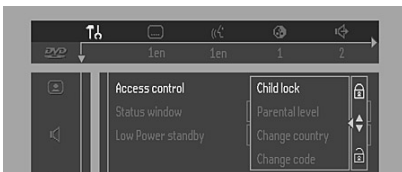
Authorising discs

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 authorized and can always be played, even if the Child Lock is set to ON.

Notes:
– The player memory can maintain 120 authorized ('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 authorized.

Deauthorising discs

1 Insert the disc.
→ Playback starts automatically.

2 Press ■ while 🙂 is visible.
→ The 🙁 will appear and the disc is now deauthorized.

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.
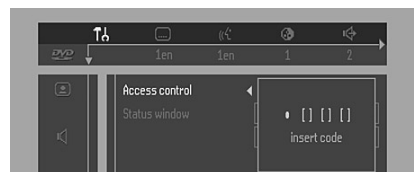
Access Control

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.
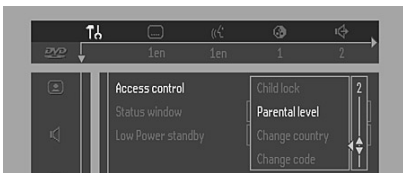
Country

You can set the DVD player to block or allow DVD playback according to the country rating selected in the DVD.

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 be 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)

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

VIDEO PERFORMANCE

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
Analog 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)	-125 dB
Dynamic Range (1kHz)	-105 dB
Crosstalk (1kHz)	-120 dB
Total Harmonic Distortion (1kHz)	-100 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)		< -120 dB
Dynamic Range (1kHz)		< -95 dB
Crosstalk (1kHz)		< -110 dB
Total Harmonic Distortion (1kHz)		< -95 dB
MPEG MP3	MPEG Audio L3	

CONNECTIONS

Y Pb/Cb Pr/Cr (480i/p)	Cinch 3x (green, blue, red)
S-Video Output	Mini DIN, 4 pins
Video Output	Cinch (yellow) 2x
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 Center	Cinch (blue)
Audio Subwoofer	Cinch (black)

CABINET

Dimensions (w x h x d)	435 x 101 x 315 mm
Weight	Approximately 4.6 Kg

POWER SUPPLY

Power inlet	120V, 60Hz
Power usage	Approx. 30W
Power usage standby	< 1W

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

Specifications subject to change without prior notice

Maintenance

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 benzine, 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	– Check if the AC power cord is properly connected.
No picture	– Check if the TV is switched on. – Check the video connection.
Distorted picture	– 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	– Make sure the NTSC/PAL setting at the DVD player matches the video signal of your television. (See NTSC/PAL Conversion/Settings)
No sound or distorted sound	– Adjust the volume. – Check that the speakers are connected correctly.

Troubleshooting

Problem	Solution
No audio at digital output	– 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	– Check that the SCART cable is connected to the correct device (See Connecting to a TV)
Disc can't be played	– Ensure the disc label is facing up. – Check if the disc is defective by trying another disc.
Picture freezes momentarily during playback	– Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge.
No return to start-up screen when disc is removed	– Reset the unit by switching the player off, then on again.
The player does not respond to the remote control	– 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	– 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.	– Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD/SACD Video player cannot read CDs/DVDs	– 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 (HOTLINE).

LIMITED WARRANTY

DVD963SA
One year Free Labor/One year Parts Exchange
This product must be carried in for repair.

WHO IS COVERED?
You must have proof of purchase to receive warranty service.
A sales receipt or other document showing that you purchased
the product is considered proof of purchase.

WHAT IS COVERED?
Warranty coverage begins the day you buy your product. *For
one year thereafter*, all parts will be repaired or replaced, and
labor is free. *After one year from the day of purchase,* you pay for
the replacement or repair of all parts, and for all labor charges.
All parts, including repaired and replaced parts, are covered
only for the original warranty period. When the warranty on
the product expires, the warranty on all replaced and repaired
parts also expires.

WHAT IS EXCLUDED?
Your warranty does not cover:
• labor charges for installation or setup of the product, adjust-
 ment of customer controls on the product, and installation
 or repair of antenna systems outside of the product.
• product repair and/or part replacement because of misuse,
 accident, unauthorized repair or other cause not within the
 control of Philips.
• reception problems caused by signal conditions or cable or
 antenna systems outside the unit.
• a product that requires modification or adaptation to enable
 it to operate in any country other than the country for
 which it was designed, manufactured, approved and/or
 authorized, or repair of products damaged by these
 modifications.
• incidental or consequential damages resulting from the prod-
 uct. (Some states do not allow the exclusion of incidental or
 consequential damages, so the above exclusion may not
 apply to you. This includes, but is not limited to, prerecord-
 ed material, whether copyrighted or not copyrighted.)

WHERE IS SERVICE AVAILABLE?
Warranty service is available in all countries where the product
is officially distributed by Philips. In countries where Philips
does not distribute the product, the local Philips service organi-
zation will attempt to provide service (although there may be a
delay if the appropriate spare parts and technical manual(s) are
not readily available).

MAKE SURE YOU KEEP...
Please keep your sales receipt or other document showing
proof of purchase. Attach it to the owner's manual and keep
both nearby. Also keep the original box and packing material in
case you need to return your product.

BEFORE REQUESTING SERVICE...
Please check your owner's manual before requesting service.
Adjustments of the controls discussed there may save you a
service call.

**TO GET WARRANTY SERVICE IN U.S.A.,
PUERTO RICO, OR U.S. VIRGIN ISLANDS...**
Take the product to a Philips factory service center (see
enclosed list) or authorized service center for repair. When the
product has been repaired, you must pick up the unit at the
center. Centers may keep defective parts.
(In U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied war-
ranties, including implied warranties of merchantability and fit-
ness for a particular purpose, are limited in duration to the
duration of this express warranty. Because some states do not
allow limitations on how long an implied warranty may last, this
limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...
Please contact Philips at:
 1-800-661-6162 (French Speaking)
 1-800-531-0039 (English Speaking or Spanish Speaking)

(In Canada, this warranty is given in lieu of all other warranties.
No other warranties are expressed or implied, including any
implied warranties of merchantability or fitness for a particular
purpose. Philips is not liable under any circumstances for any
direct, indirect, special, incidental or consequential damages,
howsoever incurred, even if notified of the possibility of such
damages.)

REMEMBER...
Please record below the model and serial numbers found on
the product. Also, please fill out and mail your warranty regis-
tration card promptly. It will be easier for us to notify you if
necessary.
MODEL # _____
SERIAL # _____

*This warranty gives you specific legal rights. You may have other rights which
vary from state/province to state/province.*

DVD 963SA

**CLASS 1
LASER PRODUCT**

The products and services described herein
are not necessarily available in all countries
Due to continuous product improvements
this document is subject to change without
notice.