

DVD Video player
DVD951



Toll Free Help Line
Ligne d'assistance en service libre
Linea de ayuda telefónica sin cargo
800-531-0039



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

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,




Robert Minkhorst
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!



Know these *safety* symbols



 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. _____

English 5

Français 26

Español 48

LASER SAFETY

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

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

LASER

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

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

For Customer Use:

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

Model No. DVD-VIDEO 951 Serial No. _____



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 play and should be unloaded.

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

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

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

TruSurround and the SRS symbol are trademarks of SRS Labs., Inc. TruSurround technology is manufactured under license from SRS Labs., Inc.

TruSurround™
by **SRS** (●)®

General Information



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.



Ce symbole indique la présence d'une tension suffisamment élevée pour engendrer un risque de chocs électriques.



Ce symbole indique que le manuel d'installation fourni avec l'appareil contient d'importantes recommandations quant au fonctionnement et à l'entretien de ce dernier.



Este símbolo tiene por finalidad advertir al usuario de la presencia de tensión peligrosa no aislada dentro de la caja del aparato, que puede ser lo suficientemente fuerte para constituir un peligro de choque eléctrico.



Este símbolo sirve para advertir al usuario de la presencia de instrucciones de manejo y mantenimiento (servicio) importantes en el manual que acompaña al aparato.

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.

AVISO

Para reducir el riesgo de fuego o choque eléctrico, no exponga el aparato a la lluvia o humedad.

ATENCIÓN

El uso de mando o ajustes o la ejecución de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

El aparato cumple las normas FCC, Parte 15 y 21 CFR 1040.10.

AVIS

Afin de réduire tout risque d'incendie ou de choc électrique, il ne faut pas exposer cet appareil à la pluie ou à l'humidité.

ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-incluses peuvent se traduire par une exposition dangereuse à l'irradiation.

L'appareil répond aux normes FCC, Part 15 et 21 CFR 1040.10.

Canada

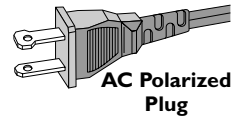
Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

IMPORTANT SAFETY INSTRUCTIONS – Read before operating equipment


This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 1. Read these instructions** – All the safety and operating instructions should be read before the appliance is operated.
- 2. Keep these instructions** – The safety and operating instructions should be retained for future reference.
- 3. Heed all warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow all instructions** – All operating and use instructions should be followed.
- 5. Do not use this apparatus near water** – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
- 6. Clean only with a damp cloth.** The appliance should be cleaned only as recommended by the manufacturer.
- 7. Install in accordance with the manufacturers instructions. Do not block any of the ventilation openings.** For example, the appliance should not be situated on a bed, sofa, rug, or similar surface or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 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. 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. When 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 a 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 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-E001: 00/8

LIMITED WARRANTY

DVD VIDEO PLAYER

90 Days Free Labor

One Year Exchange Warranty on Parts

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 90 days thereafter, all parts will be repaired or replaced, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced, but you pay for all labor charges. 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, adjustment 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 Consumer Electronics.
- 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 product. (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, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization 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 this 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 warranties, including implied warranties of merchantability and fitness 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)

1-800-363-7278 (English 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 the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration 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.

Philips Service Solutions Group, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

EL6191E003 / MAC 6058 / 12-98

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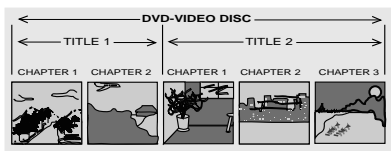
Philips DVD-Video Introduction

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



DVD-Video

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



Video CD

You will recognize Video CDs by the logo shown.



Audio CD

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



Unpacking

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

You should have the following items.

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

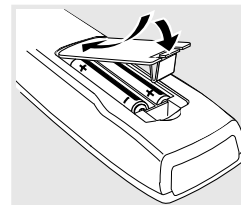
If any item is damaged or missing, contact your retailer or Philips.

Keep the packaging material; for future transportation.

Remote control battery installation

- Insert batteries as indicated inside the battery compartment.

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

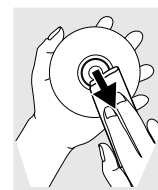


Safety Information

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

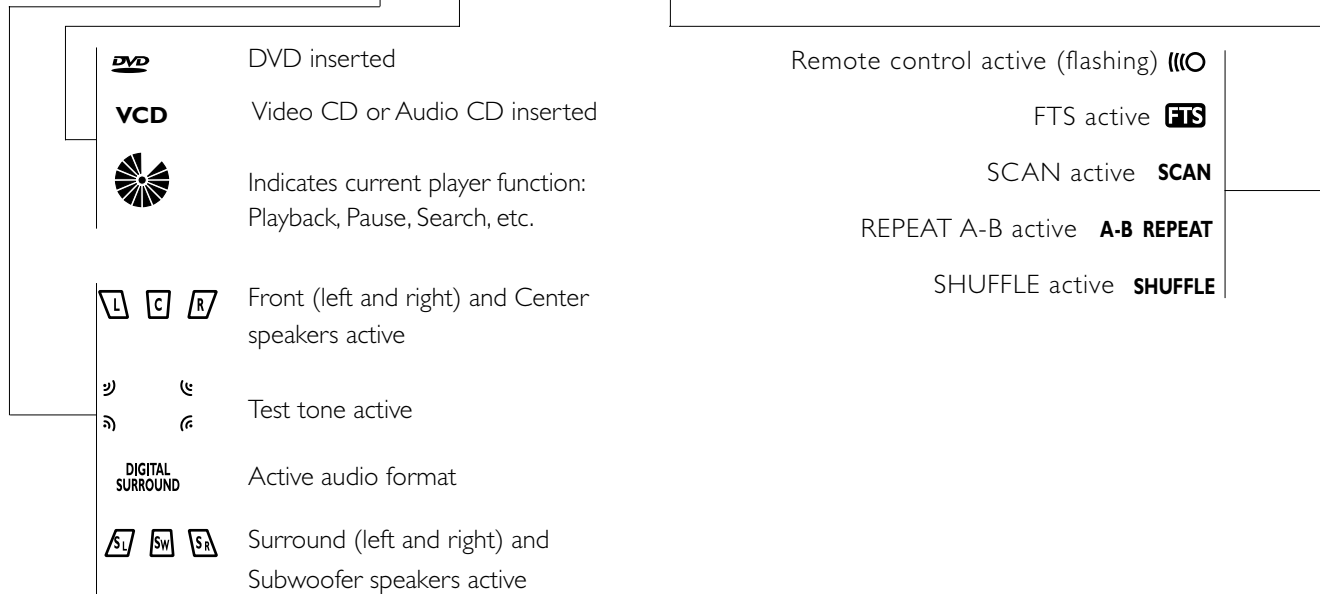
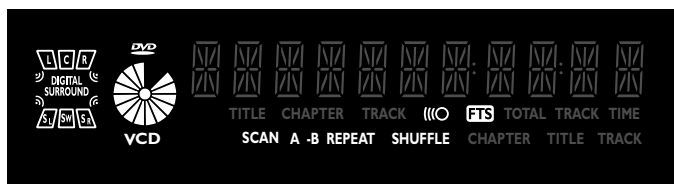
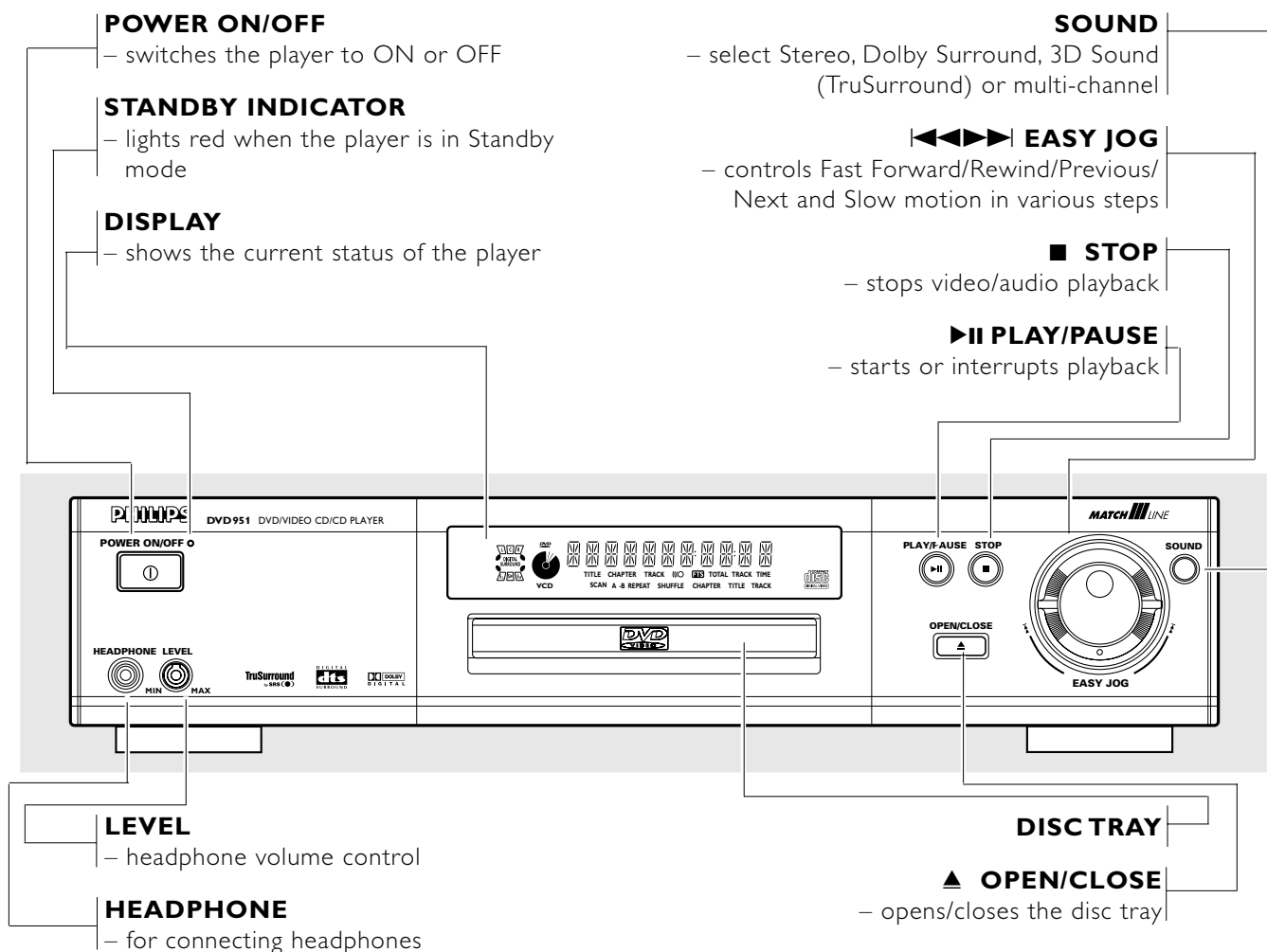
Cleaning discs

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



Functional Overview

Front panel and Display



Remote control

TV ON/OFF

– switches TV to ON/OFF mode

TV VOL (+/-)

– to turn TV volume up/down

PBC (ON/OFF)

– activate/deactivate PBC

FTS

– activate FTS

DISC LOCK ()

– to activate/deactivate an authorized disc

RESUME

– to continue playback from STOP/PAUSE mode

TV P (+/-)

– to turn TV program up/down

DISC MENU

– access menu of a DVD disc

SYSTEM MENU

– access or remove player's menu



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

STOP ()

– to stop playback

PLAY ()

– to start playback

SUBTITLE ()

– subtitle language selector

ANGLE ()

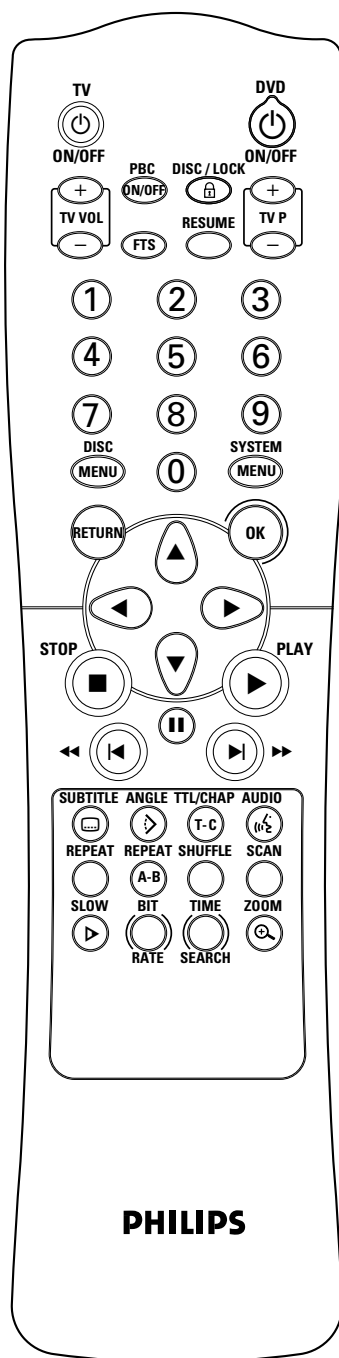
– select DVD camera angle

TTL/CHAP (T-C)

– select title/chapter

AUDIO ()

– audio language selector



DVD ON/OFF

– switches DVD to ON/OFF mode

0-9 numerical key pad

– direct numerical inputs

RETURN

– go back to previous menu

OK

– acknowledge menu selection



– search backward* / go to previous chapter or track



– pause playback temporarily / frame-by-frame playback



– search forward* / go to next chapter or track

REPEAT

– repeat chapter, track, title, disc

REPEAT (A-B)

– repeat sequence

SHUFFLE

– play tracks in random order

SCAN

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

SLOW ()

– slow motion

BIT RATE

– displays bit rate indicator during playback

TIME SEARCH

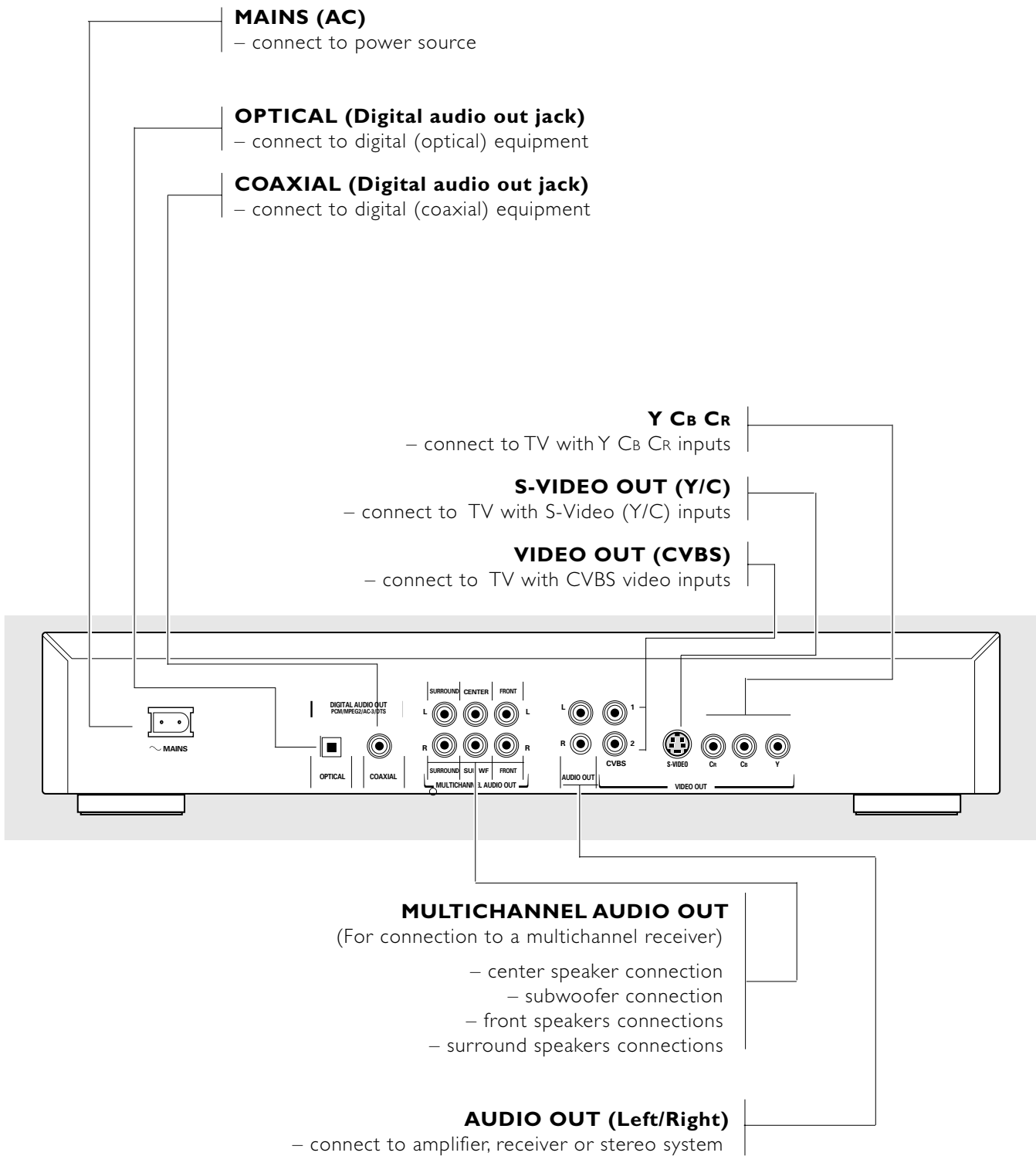
– start playback at a specific time

ZOOM ()

– enlarge video image

* Press and hold key for about 2 seconds

Rear panel



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

Preparation

General notes

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

Caution:

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

Connecting to a TV

Component Video (Y Cb Cr) connection

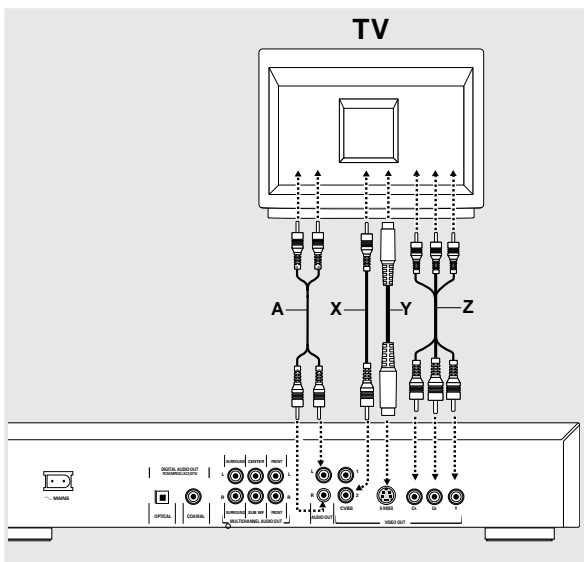
- 1 Connect the Y, C_B, C_R out jacks on the DVD-player to the corresponding jacks on the TV using optional Y, C_B, C_R cable (Z).
- 2 Connect the Left and Right audio out jacks to the audio left/right in jacks on the TV (A).

S-Video (Y/C) connection

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

Video CVBS connection

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



Connecting to optional equipment

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

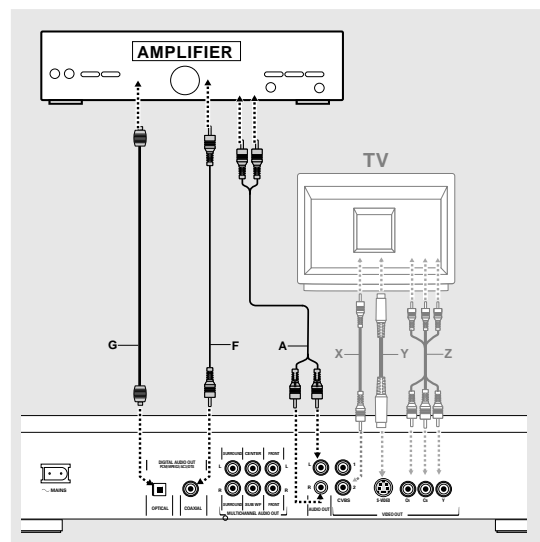
- 1 Connect the Left and Right audio out jacks of the DVD player to the audio left and right in jacks on your amplifier; receiver or stereo system, using the optional audio cable (A).

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

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

Digital Multi-channel sound

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



Warning:

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

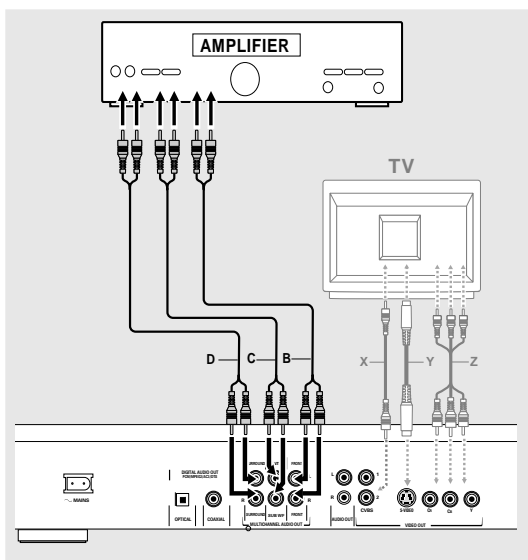
Note:

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

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

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

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



NTSC/PAL Settings

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

- 1 Press the POWER ON/OFF button on the front panel of the DVD player to turn OFF the DVD player.
- 2 Press and hold **■** and **SOUND**, on the front of the DVD player. While holding **■** and **SOUND**, press POWER ON/OFF.
- 3 After PAL or NTSC appears on the display panel of the DVD player, release **■** and **SOUND**, at the same time. The PAL or NTSC indicator that appears on the display panel indicates the current setting.
- 4 To change the setting, press **SOUND**, within three seconds. The new setting (PAL or NTSC) will appear on the display panel.

General explanation

About this manual

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

Remote control operation

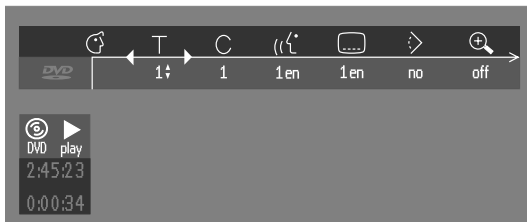
- Unless stated, all operations can be carried out with the remote control. Always point the remote control directly at the player, making sure there are no obstructions between the remote and the player. Corresponding keys on the front panel of the player can also be used.

Menu bar operation

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

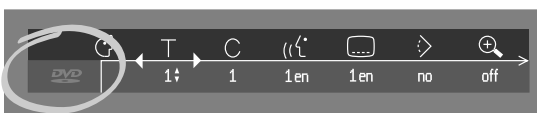
Menu bar/Status window

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



Temporary Feedback Field icons

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



Personal Preferences

You can set your own personal preferences on the player.

General operation:

- Press SYSTEM MENU on the remote control.
- Select in the menu bar.
→ The Personal Preferences menu appears.
- Use the ◀▶▼▲ keys to move through the menus, submenus and submenu options.
→ When a menu item is selected, the cursor keys (on the remote control) needed to operate the item are displayed next to the item.
- Press OK to confirm your selection and return to the main menu.

The following items can be adapted:

Picture

– TV Shape

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

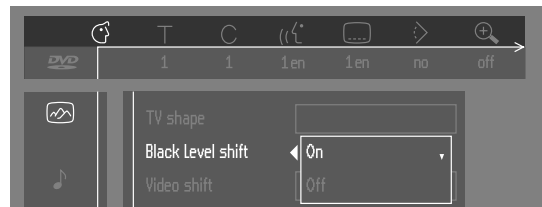
If you have a regular (4:3) TV, select 4:3.

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

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

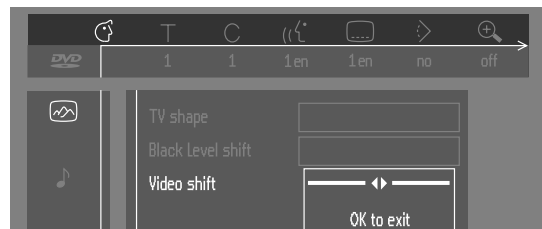
– Black level shift (NTSC users only)

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



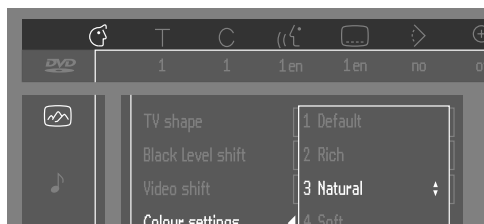
– Video shift

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



- Color settings (Y Cb Cr connection only)

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



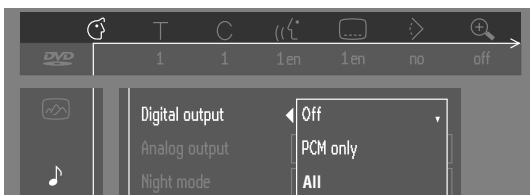
- Personal color (Y Cb Cr connection only)

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

Sound

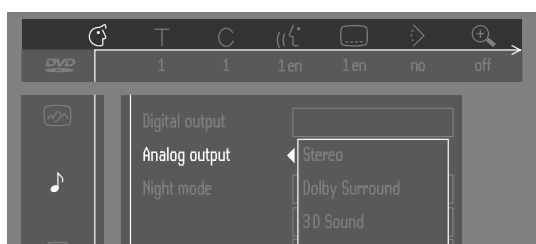
- Digital output

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



- Analog output

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

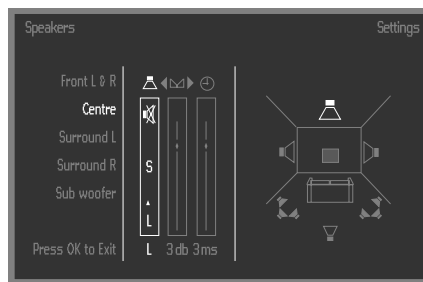


- Night Mode

Optimizes the dynamics of the sound for low volume playback.

- Speaker settings

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



- Karaoke vocal

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

Language

Select the required Menu, Audio and Subtitle language. Audio language and Subtitle language can also be adapted using the Menu bar.

Features

- Access Control

Access Control contains the following features:
 Child Lock - When Child Lock is set to ON, a 4-digit code must be entered in order to play discs.
 Parental control - Allows the conditional viewing of DVDs containing Parental Control information (see 'Access Control').

- Status Window

Displays the current status of the player and is displayed with the menu bar. When disc playback is stopped, it is displayed with the 'Temporary Feedback Field' in the default screen. See 'On-Screen Display' information. The factory setting is ON. Select OFF to suppress display of the Status Window.



- 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.



- Beeper

The beeper can be set to ON or OFF.

Loading discs

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

Note:

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

Playing a DVD and Video CD disc



Playing a disc

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

Note:

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

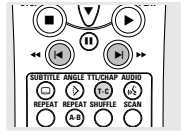
General features

Note:

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

Moving to another TITLE/TRACK

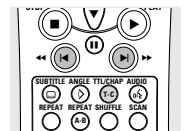
When a disc has more than one title or track, you can move to another title as follows:



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

Moving to another CHAPTER/INDEX

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



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

Note:

– For two digit numbers, press the keys in rapid succession.








Slow Motion

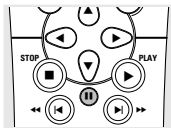
- Select **◀▶ (SLOW MOTION)** in the menu bar.
- Use the **▼** keys to enter the **SLOW MOTION** menu.
→ The player will now go into **PAUSE** mode.
- Use the cursor keys **◀▶** to select the required speed: -1, -1/2, -1/4 or -1/8 (backward), or +1/8, +1/4, +1/2 or +1 (forward).
- Select 1 to playback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



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


Still Picture and Frame-by-frame playback

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









Scan

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

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



Search

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

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



Repeat

DVD-Video Discs - Repeat chapter/ title/disc

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



Video CDs - Repeat track/disc

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

Repeat A-B

To repeat a sequence in a title:

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



Shuffle

DVD-Video discs

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

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





Video CDs

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

Time search

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

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

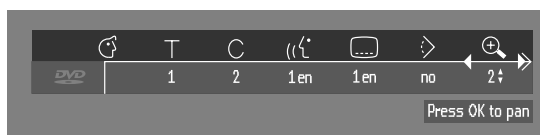


Zoom

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



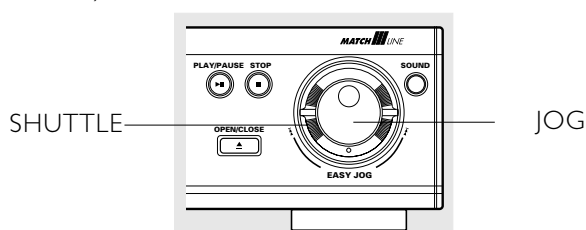
- Select **+** (**ZOOM**).
- Press **▼/▲** to activate the **ZOOM** function and select the required zoom factor: 1.33, 2 or 4.
 - The player will go into Pause mode.
 - The selected zoom factor appears below the Zoom icon in the menu bar and 'Press OK to pan' appears below the menu bar.
 - The picture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



Easy Jog

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

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



FTS-Video

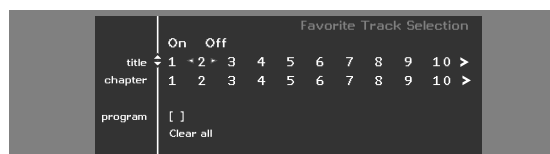
- The FTS-Video function allows you to store your favorite titles and chapters (DVD) and favorite tracks and indexes (VCD) for a particular disc in the player memory.
- FTS program can contain 20 items (titles, chapters).
- A programmed FTS will be placed on top of the list when playback is activated.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

Storing a FTS-Video Program

- When playback is stop, select **VIDEO FTS** in the menu bar.
- Press **▼** to open the menu.
 - The **VIDEO FTS** menu appears.
- Press **▶** or **◀** or FTS to select ON or OFF.

Storing titles/tracks

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



Storing chapters/indexes

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

Erasing a FTS-Video Program

- When playback is stop, select **VIDEO FTS** in the menu bar.
- Use **▼** to select **PROGRAM**.
- Use **▶** and **◀** to select the required number.
- Press OK to erase the selection.
- Press SYSTEM MENU to exit.

If you wish to erase all selections:

- When playback is stop, select **VIDEO FTS** in the menu bar.
- Use **▼** to select **CLEAR ALL**.
- Press OK.
 - All selections will now be erased.
- Press SYSTEM MENU to exit.

Special DVD features

Checking the contents of DVD-Video discs: Menus

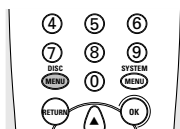
DVDs may contain menus to access special features. To use the disc menu, press the appropriate numerical key; or, use the **▼**, **▲**, **▶**, **◀** keys to highlight your selection, then press OK.

Title menus

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

Disc menu

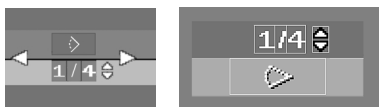
- Press T-C, then press DISC MENU.
 - The disc menu is displayed.
- To remove the disc menu, press T-C, then press DISC MENU.



Camera Angle

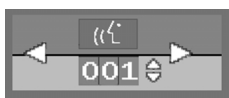
If the disc contains sequences recorded from different camera angles, the angle icon appears, showing the number of available angles and the angle being shown currently. You can then change the camera angle if you wish.

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



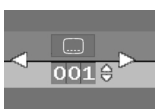
Changing the audio language

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



Subtitles

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



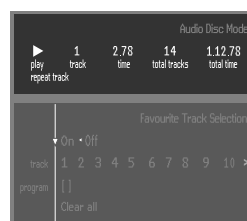
Special VCD Features

Playback Control (PBC)

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

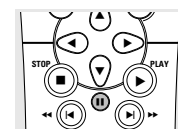
Playing an audio CD

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



Pause

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



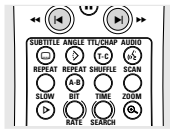
Search

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



Moving to another track

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



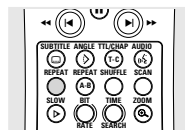
Shuffle

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



Repeat track/disc

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



Repeat A-B

To repeat a sequence:

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



Scan

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

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



FTS Program

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



Storing an FTS Program

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

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

Switching FTS ON/OFF

- 1 Use ▲ ▼ to move to the **FTS ON/OFF** selection.
- 2 Use ► or ◀ to select either ON or OFF.

Erasing a track from an FTS Program

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

Erasing the complete program

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

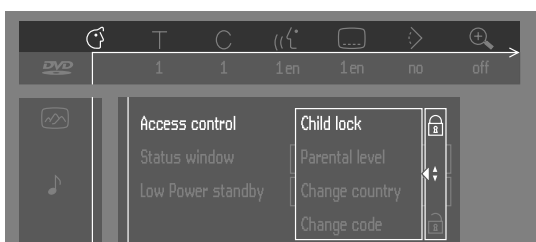
Access control; child lock (DVD and VCD)

Activating/deactivating the child lock

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

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

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

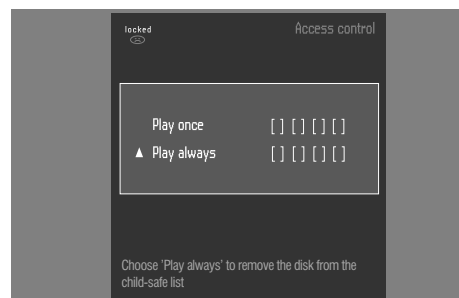


Authorizing discs

- Insert the disc. See 'Loading discs'.
 - The 'child protect' dialog will appear. You will be asked to enter your 4-digit code for 'Playback Once' or 'Playback Always'. If you select 'Playback Once', the disc can be played as long as it is in the player and the player is ON. If you select 'Playback Always', the disc will become child safe (authorized) and can always be played, even if the Child Lock is set to ON.

Notes:

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

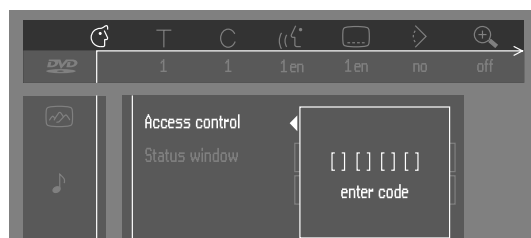


Deauthorizing discs

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

Access control; Parental control (DVD only)

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



Activating/Deactivating Parental Control

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

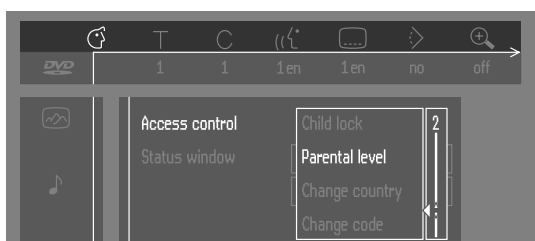
Rating 0 (displayed as '—'):

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

Ratings 1 to 8:

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

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



Country

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

Changing the 4-digit code

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

If you forget your 4 digit code

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

Parental Control Disclaimer

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

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

On this basis Philips cannot guarantee the functioning of **PARENTAL CONTROL** 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.

Before Requesting Service

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

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

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

Speaker Settings

6 Channel settings

Front speaker

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

Center Speaker*

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

Surround speakers

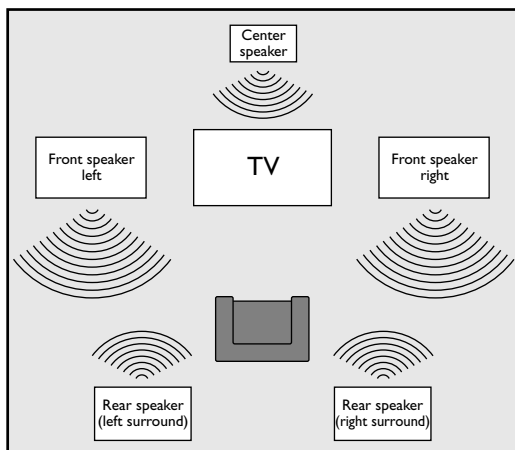
- L (Large): When the surround speakers can reproduce low frequency signals below 120Hz
- S (Small): When the surround speakers cannot produce low frequency signals below 120Hz
- Off: When the surround speakers are not connected

Subwoofer

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

Note:

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

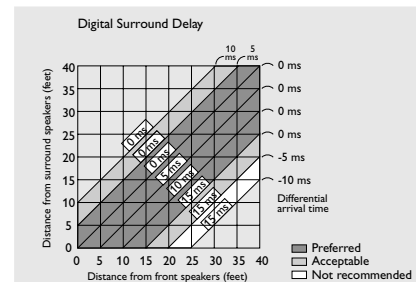


Delay times

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

Digital Surround

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



Specifications

PLAYBACK SYSTEM

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

OPTICAL READOUT SYSTEM

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

DVD DISC FORMAT

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

VIDEO FORMAT

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

TV STANDARD

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

DVD

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

VCD

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

VIDEO PERFORMANCE

Video output	1 Vpp into 75 ohm
S-Video output	Y: 1 Vpp into 75 ohm C: 0.3 Vpp into 75 ohm
Y C _B C _R (YUV) output	Y: 1 Vpp into 75 ohm C _B C _R : 0.7 Vpp into 75 ohm
Black Level Shift	On/Off
Video Shift	Left/Right

AUDIO FORMAT

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

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

AUDIO PERFORMANCE

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

CONNECTIONS

Y Output	Cinch (green)
C _B (U) Output	Cinch (blue)
C _R (V) Output	Cinch (red)
S-Video Output	Mini DIN, 4 pins
Video Output	Cinch (yellow)
Audio L+R output	Cinch (white/red)

6 Channel Analog Output

Audio Front Left/Right	Cinch (white/red)
Audio Surround Left/Right	Cinch (white/red)
Audio Center	Cinch (blue)
Audio Subwoofer	Cinch (black)
Digital Output	1 coaxial, 1 optical IEC958 for CDDA / LPCM IEC1937 for MPEG1/2, AC-3 and Dolby Digital
Headphone	6.3 mm Jack

CABINET

Dimensions (w x h x d)	17.12 x 3.94 x 12.64 inch 435 x 100 x 321mm
Weight	Approx. 8.8 pounds Approx. 4 Kg

GENERAL FUNCTIONALITY

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

DVD FUNCTIONALITY

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

VIDEO CD FUNCTIONALITY

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

AUDIO CD FUNCTIONALITY

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

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

Specifications subject to change without prior notice

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