user manual

manuel d'utilisation | manual del usuario | benutzerhandbuch

Portable DVD Player

PHILIPS

Important notes for users in the UK

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

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

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

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

How to connect a plug
The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L). As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:
• Connect the blue wire to the terminal marked N or coloured black.
• Connect the brown wire to the terminal marked L or coloured red.
• Do not connect either wire to the earth terminal in the plug, marked E (or e) or coloured green (or green and yellow).
• Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

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

> CAUTION!
> Apparatus shall not be exposed to dripping or splashing. Do not place any sources of danger on the appartus (e.g. liquid filled objects,lighted candles)

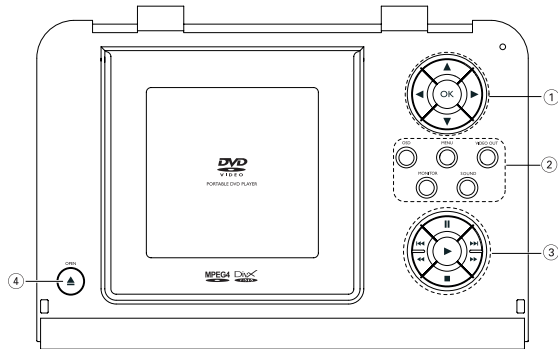*This set complies with the radio interference requirements of the European Union.*

Contents
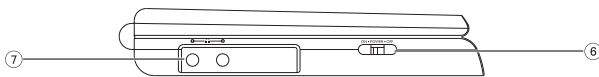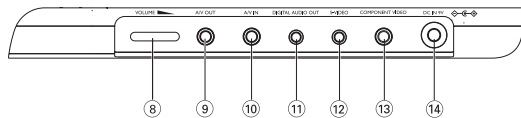
1

DVD PLAYER LAYOUT

Main unit controls
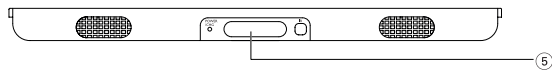
Front of player

Left of player

Right of player

2

Functional Overview

① ▲, ▼, ◀, ▶,
Up / down / left / right cursor
OK
Confirms selection

② **OSD**
On **S**creen **D**isplay on / off
MENU
Displays MENU page
VIDEO OUT
Selection video format
– COMPONENT OUT(YPBPR)
– COMPONENT OUT(YCBCR)
– A/V or S-VIDEO OUT
– A/V IN (AUX)
MONITOR
Selection display
☼ To adjust the brightness with
◀ ▶

🎮 To adjust the color with ◀ ▶

☐ To adjust the screen of 16:9
or 4:3 with ◀ ▶
SOUND
Turn virtual on/off

③ **Ⅱ**
Pauses playback
▶
Starts / resumes playback
■
Press twice to stop playback
◀◀ / ▶▶
For previous (◀◀) or next (▶▶)
chapters, tracks or titles
◀◀ / ▶▶
Search backward (◀◀) or search
forward (▶▶)

④ ▲ **OPEN**
Opens disc door to insert or
remove disc

⑤ **POWER/CHG**
Power and charging indicator
IR
Remote sensor

⑥ **ON . POWER . OFF**
Switches the player on / off

⑦ ❶— 🎧 —❷
Headphones jack

⑧ **VOLUME** ◣
Volume control

⑨ **A/V OUT**
Audio/Video output jack

⑩ **A/V IN**
Audio/Video input jack

⑪ **DIGITAL AUDIO OUT**
Digital audio output jack

⑫ **S-VIDEO**
S-Video output jack

⑬ **COMPONENT VIDEO**
Component video output jack

⑭ **DC IN 9V**
Po wer supply socket

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

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REMOTE CONTROL LAYOUT

4
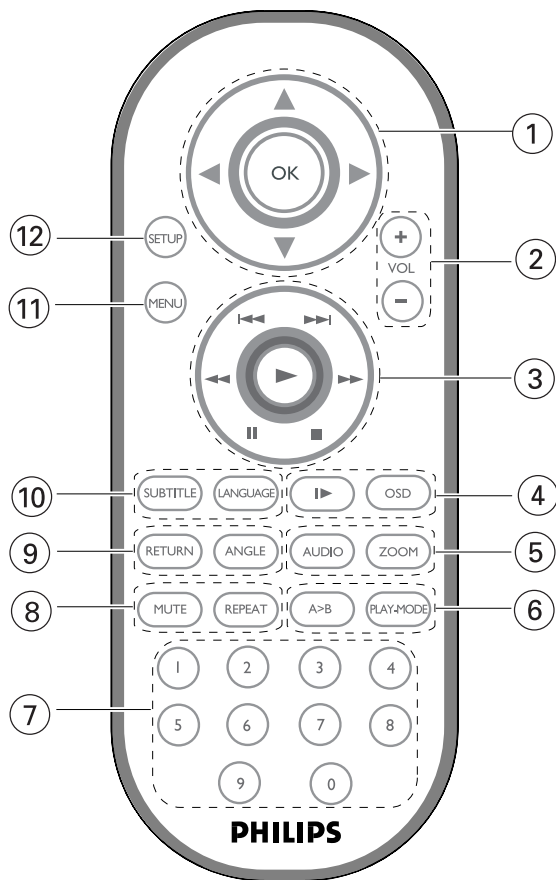
Remote Control

① **▲, ▼, ◄, ►**
Up / down / left / right cursor
OK
Confirms selection

② **VOL+ / −**
Volume control

③ **I◄◄ / ►►I**
For previous (I◄◄) or next (►►I)
chapters, tracks or titles
II
Pauses playback
►
Starts / resumes playback
■
Press twice to stop playback
◄◄ / ►►
Search backward (◄◄) or search
forward (►►)

④ **OSD**
On **S**creen **D**isplay on / off
I►
Slow motion

⑤ **AUDIO**
Audio langauge selector
ZOOM
Enlarges video image

⑥ **A > B**
To repeat or loop a sequence
in a title
PLAY-MODE
Selects play order options

⑦ **0 - 9**
Numeric keypad

⑧ **MUTE**
Muting player volume
REPEAT
Repeats chapter / title / disc

⑨ **RETURN**
For VCD menu page
ANGLE
Selects DVD camera angle

⑩ **SUBTITLE**
Subtitle language selector
LANGUAGE
Language selector

⑪ **MENU**
Displays MENU page

⑫ **SETUP**
Enters SETUP menu

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Introduction

Your portable DVD player

Your portable DVD player plays 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, and stereo or multichannel sound (depending on the disc and on your playback set-up).

The unique features of DVD-Video, such as selection of soundtrack and subtitle languages, and of different camera angles (again depending on the disc), are all included.

What's more, parental lock lets you decide which discs your children will be able to see. You will find your player remarkably easy to use with the On-Screen Display and player display in combination with the remote control.

Unpacking

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

• Portable DVD player	• Remote Control
• Car adaptor (12V)	• AC power adaptor
• Rechargeable battery pack	• User Manual
• Warranty	• Audio / Video cable
• S-Video cable	• Component Video cable
• Travel bag (subject to region)	

Placement
• Place the player on a firm, flat surface.
• Keep away from domestic heating equipment and direct sunlight.
• If the player cannot read CDs/DVDs correctly, try using a commonly available cleaning CD/DVD to clean the lens before taking the player to be repaired. Other cleaning methods may destroy the lens.
• Always keep the disc door closed to avoid dust on the lens.
• The lens may cloud over when the player is suddenly moved from cold to warm surroundings. It is then not possible to play a CD/DVD. Leave the player in a warm environment until the moisture evaporates.

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Playable disc formats

In addition to DVD-Video disc, you will also be able to play all Video CDs and audio CDs (including CDR, CDRW, DVDR and DVD+RW).

DVD-Video

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

Video CD

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

Audio CD / MP3 CD

Audio CDs / MP3 CD contain music tracks only. You can play them in the conventional way through a stereo system using the keys on the remote control and/or main unit, or via the TV using the On Screen Display (OSD).

CD with JPEG files

You can also view JPEG still photos on this player.

DivX video discs

You can also view discs containing DivX® video on this player.

• Official DivX® Certified™ product
• Plays DivX®5, DivX®4, DivX®3, and DivX® VOD video content.

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General information

Power Sources

This unit operates on a supplied AC adapter, car adapter, or a rechargeable battery pack.
• Make sure that the input voltage of the AC adaptor is in line with the local voltage. Otherwise, the AC adaptor and unit may be damaged.
• Do not touch the AC adaptor with wet hands to prevent electric shock.
• When connecting with car power (cigarette lighter) adaptor, be sure the input voltage of the adaptor is identical with car voltage.
• Unplug the AC adaptor from the outlet or remove the battery pack when the unit is not used for long periods of time.
• Hold the plug to disconnect the AC adaptor. Do not pull the power cord.

Safety and maintenance

• Do not disassemble the unit for laser rays are dangerous to eyes. Any service should be done by qualified service personnel.

• Unplug the AC adaptor to cut the power if liquid or objects get inside the unit.

• Take care not to drop the unit or subject it to strong shocks, which may cause malfunction.

• Hearing safety: listen at a moderate volume. Using headphones at high volume can impair your hearing.

• Important (for models with bypacked headphones): Philips guarantees compliance with the maximum sound power of its audio players as determined by relevant regulatory bodies only with the original model of provided headphones. In case this one needs replacement, we recommend that you contact your retailer to order a model identical to that of the original provided by Philips.

• Traffic safety: do not use while driving or cycling as you may cause an accident

• Do not expose to excessive heat caused by heating equipment or direct sunlight.

• This product is not waterproof: do not allow your player to be submersed in water. Water entering the player may cause major damage.

• Do not use any cleaning agents containing alcohol, ammonia, benzene, or abrasives as these may harm the player.

• Do not touch the lens!

Note: When the player is in use for a long period of time, the surface will be heated. This is normal.

Handling discs

• Do not attach paper or tape to the disc.
• Keep the disc away from direct sunlight or heat sources.
• Store the disc in a disc case after playback.
• To clean, wipe the disc outwards from the center with a soft, lint-free clean cloth.

On handing the LCD screen

The LCD is manufactured using high precision technology. You may, however, see tiny black points and/or bright points(red,blue,green) that continuously appear on the LCD. This is a normal result of the manufacturing process and does not indicate a malfunction.

Environmental information

We have reduced the packaging to its minimum and made it easy to separate into mono materials: cardboard, PS, PE and PET.

Your set consists of material which can be recycled if disassembled by a specialized company. Please observe the local regulations to dispose of packaging, exhausted batteries and old equipment.

Copyright information

''DivX, DivX'' Certified, and associated logos are trademarks of DivXNetworks, Inc. and are used under license.''

All other brand and product names are trademarks of their respective companies or organizations.
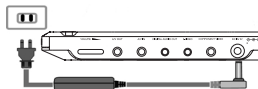
Unauthorized duplication of any recordings downloaded from the internet or made from CDs / VCDs / DVDs is a violation of copyright laws and international treaties.

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Preparations

Power supply

Using the AC / DC adapter

Connect the supplied adapter to the set
and the main power supply (as shown).

⇨ TIP

To avoid damage to the player, switch off before unplugging the AC adaptor.

Using the car adapter

Connect the supplied car adapter to the set and the car cigarette
lighter outlet.

⇨ TIP
• To avoid damage to the player, switch off before unplugging
  the AC adaptor.
• When connecting with car power (cigarette lighter) adaptor, be sure the
  input voltage of the adaptor isidentical with car voltage.

Powering your remote control

① Open the battery compartment.
   Remove the protective plastic tab
   (first time users only).

② Insert 1 × lithium 3V battery, type CR2025,
   then close the compartment.
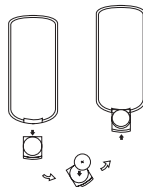
*Batteries contain chemical substances, so they
should be disposed of properly.*

*Incorrect use of batteries can cause electrolyte leakage and will corrode the
compartment or cause the batteries to burst.*

Remove the batteries if the set is not to be used for a long time.

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Attaching and charging the battery pack

1 Switch off the set. Attach the battery pack
as shown.
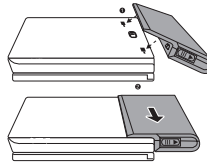
2 Connect the supplied adapter to the set
and the main power supply (as shown).
Charge until the red indicator turns off (
approximately 4.5 - 6.5 hours when unit is
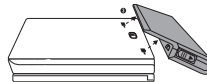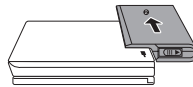charged from power off).
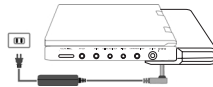
➯ TIP
• It is normal for the battery pack to become warm during charging.
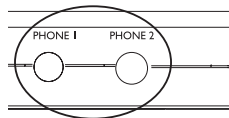• ▭▸ is shown on the screen when battery power is running.

Detaching the battery pack

1 Switch off the set.

2 Unplug the AC adapter.

3 Turn the player upside down.

4 Press down the battery pack lock switch.

5 Slide off the battery pack as shown.

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Connections

Connecting headphones

Connect the headphones into the **PHONE 1** or the **PHONE 2** jack of your set.
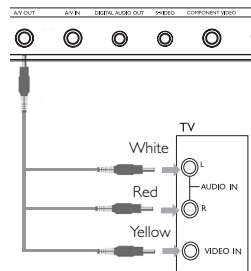

Connecting additional equipment
• Turn off your set before connecting to any additional equipment.
• You can connect the player to a TV or an amplifier to enjoy DVDs or karaoke.

AV OUT

• On the DVD player panel, press **VIDEO OUT** to select A/V OR S-VIDEO OUT

A/V IN

• On the DVD player panel, press **VIDEO OUT** to select A/V IN (AUX)
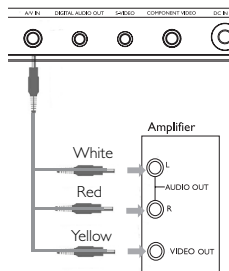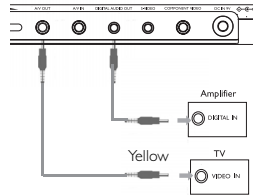
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Digital Audio Out

Amplifier

DIGITAL IN

Yellow

TV

VIDEO IN

S Video

• On the DVD player panel, press **VIDEO OUT** to select A/V OR S-VIDEO OUT

TV

S-VIDEO IN

White

Red

L

AUDIO IN

R
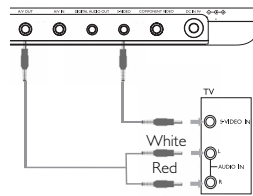
Component Video

• On the DVD player panel, press **VIDEO OUT** to select COMPONENT OUT (YPBPR) or COMPONENT OUT (YCBCR)

Green

Blue

Red

TV

Y

CB/PB   COMPONENT
        VIDEO IN

CR/PR

White

Red

L

AUDIO IN

R

13
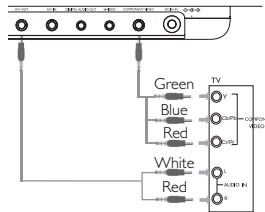
Connection	Video	Audio (Left)	Audio (right)
Color	Yellow	White	Red

➪ TIP

• You can also make use of the COAXIAL jack for digital audio output.
• Please refer to the user manuals of your additional equipment for more information about connection.
• Players support NTSC/PAL/MULTI television sets.

General explanation

About this manual

This manual gives the basic instructions for operating this DVD player.
Some DVD discs however are produced in a way that requires specific
operation or allows only limited operation during playback. In these cases the
player may not respond to all operating commands. When this occurs, please
refer to the instructions in the disc inlay.
When a ⊘ appears on the screen, the operation is not permitted by the
player or the disc.

Remote control operation

• Unless otherwise stated, all operations can be carried out with the remote
  control. Always point the remote control directly at the player, making sure
  there are no obstructions in the path of the infrared beam.
• When there are corresponding keys on the main unit, they can also
  be used.

Menu navigation

• Your player has an intuitive menu navigation system to guide you through
  various settings and operations.
• Use the function keys to activate / disable relevant operations.
• Use ▲, ▼, ◀, ▶ to browse through menus.
• Press **OK** key to confirm your selection.

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Basic functions

Switching on for OSD language setup

English is the default language of your player's on screen display. You may choose to use English, French, Spanish, German, Simplified Chinese or Traditional Chinese for your player's on screen display.

Countries	OSD Language Options
European	English, French, Spanish, German
American	English, French, Spanish
Asia Pacific	English, Tradtional Chinese, Simplified Chinese

1 Slide the **POWER** switch to **ON** to switch on the player.
2 Press **SET UP** for the set up menu.
3 Select **GENERAL SETUP** and press **OK**.
4 Scroll and select **OSD LANG** and press ▶ to select from OSD language options.
5 Select your preferred language and press **OK**.
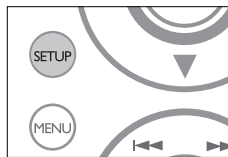
Loading discs and switching on

1 Press **OPEN** to open the disc door.

2 Insert your chosen disc, label side up (also when a double sided DVD disc is inserted). Make sure it is sitting properly in the correct recess.

3 Gently push to close the door.

4 Slide the **POWER** switch to **ON** to switch on the player.

⇨ TIP
• A normal mechanical noise is heard during playback.

Playing a DVD disc

After switching on, inserting the disc and closing the door, playback starts automatically. The screen shows the type of disc loaded.

The disc may invite you to select an item from a menu.

Use the ▲, ▼, ◄, ► keys to highlight your selection, and press **OK**.

Note: *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.*

Playing an audio or video CD disc

• After switching on, inserting the disc and closing the door, the screen shows the type of disc loaded as well as information about the disc's contents. Press ► to start playback.

• While playing VCD with MTV/Karaoke, press number keys(0-9) to select the track and press ► or **OK** to play the track. Press **RETURN** to go back to menu of the selection.

Playing DivX® disc

• Philips provide you the DivX® VOD(Video on Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit www.divx.com/vod.

• Selection the DivX® VOD on the SETUP menu.

• The registration code will appear.

• Use the registration code to purchase or rent the videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and download the video onto a CD-R for playback on this DVD player.

☑ *TIP :*

All the downloaded videos from DivX® VOD can only be played back on this DVD player.

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Playing an MP3-CD

The following playback features are available for MP3-CDs. Please refer to the corresponding sections for more information.

Volume control, skipping tracks, searching, repeat, shuffle, etc.

Use the ▲, ▼, ◄, ► keys to highlight your selected music folder.
Press **OK** to play.

Playing a JPEG discs

Use the ▲, ▼, ◄, ► keys to highlight your selected picture folder.
Press **OK**. The player will then automatically enter the slide show mode.

Using the full display screen, this shows the rest of the JPEG files, one-by-one, located in the selected current folder.

• Use the ◄, ► to rotate the picture.
• Use the ▲ to filp up/down.
• Use the ▼ to flip left/right.

• During the slide show, press **MENU** to go back to folder screen.
• Press ■ to go to group preview.
• Use the ▲, ▼, ◄, ► to highlight the preview picture and access the on-screen functions.

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General Features

Note: Unless stated otherwise, all operations described are based on remote control operation.

Moving to another title/track/chapter

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

• Press ►►I briefly during play to select the next title / track / chapter.

• Press I◄◄ briefly during play to step back to the previous title/track/chapter.

• To go directly to any title, track or chapter, enter the corresponding number using the numerical keys (0-9).

Still picture and step frame

Press II once or more for the following still picture and step frame options:

II × 1   Pause / Still picture

II × 2   screen shows I►

After the icon I► is displayed, press II repeatedly to play frame by frame. Press OK to resume normal playback.

Search

Press ►► repeatedly for the following forward search options:

Press ◄◄ repeatedly for the following backward search options:

◄◄	►►
2 X backwards	2 X forward
4 X backwards	4 X forward
8 X backwards	8 X forward
16 X backwards	16 X forward
32 X backwards	32 X forward
normal speed	normal speed

Press OK or ► to resume normal playback.

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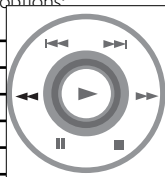
Slow motion

Press ❚▶ once or more for the following slow play options:

× 1	1/2	× 5*	1/2 × backward
× 2	1/4	× 6*	1/4 × backward
× 3	1/8	× 7*	1/8 × backward
× 4	1/16	× 8*	1/16 × backward

Press **OK** or ▶ to resume normal playback.
for DVDs only

Changing the audio output

Press **AUDIO** repeatedly for the following audio options.

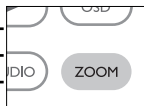| × 1	Mono left	× 2	Mono right
× 3	Mixed mono	× 4	Stereo

Zoom

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.
Press **ZOOM** repeatedly to select the following zooming options.

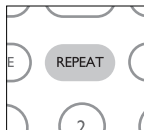| Zoom × 1	2X	Zoom × 2	3X
Zoom × 3	4X	Zoom × 4	1/2
Zoom × 5	1/3	Zoom × 6	1/4
Zoom × 7	normal		

Mute

Press **MUTE** once to mute player volume.
Press **MUTE** again to disable.

Repeat

Press **REPEAT** repeatedly for the following repeat options:

|	DVD actions	VCD actions
× 1	repeats chapter	repeats track
× 2	repeats title	repeats all
× 3	repeats all	cancels repeat
× 4	cancels repeat	

English

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General Features

Repeat A > B

To repeat or loop a sequence in a title:
- Press **A > B** at your chosen starting point;
  ↻ **A** appears on the screen.
- Press **A > B** again at your chosen end point;
  ↻ **AB** appears on the display, and the repeat sequence begins.
- To exit the sequence, press **A > B**.
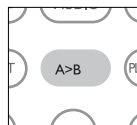
Play modes

Press **PLAY-MODE** repeatedly for the following play
order options:

× 1	Shuffle	× 2	Random
× 3	Program		
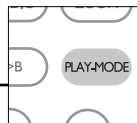
Use **(0-9) and OK** to key in specific settings.

Volume Control

- Press + / - to increase or decrease playback volume
  in the Remote Control or
- Use the rotatary switch on the right side of the unit.
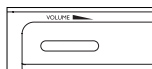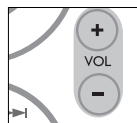
Monitor (on the main unit)

Press **MONITOR** repeatedly and use ◀ / ▶ to adjust
brightness, color and display mode (normal or full screen).

Sound (on the main unit)

Press **SOUND** repeatedly to adjust virtual surround sound.

Special DVD features

Checking the contents of DVD-Video discs: **Menus**.

For titles and chapters, selection menus may be included on the disc.
The DVD's menu feature allows you to make selections from these menus.
Press the appropriate numerical key; or use the ▲, ▼, ◄, ► keys to highlight
your selection, and press **OK**.

Disc menu
Press **MENU**. The menu may list, for example, camera angles,
spoken language and subtitle options, and chapters for the
title.

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. You can
then change the camera angle if you wish.
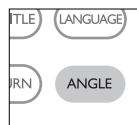
Press **ANGLE** repeatedly until you have reached your
desired viewing angle.

To resume to normal viewing angle, press **ANGLE** repeatedly
until no angle related message is shown on the screen.

Changing the language
Press **LANGUAGE**. If the current disc has different
langauge options, this now appears on the screen.
Press **LANGUAGE** repeatedly until you have reached
your desired language option.
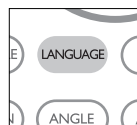
Subtitles
Press **SUBTITLES**. If the current disc has different subtitles
options, this now appears on the screen. Press **SUBTITLES**
repeatedly until you have reached your desired subtitles
option.

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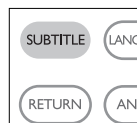
OSD operations

In addition to using remote control keys, you can also change disc playback options from OSD.

① Press **OSD** during disc playback. A list of features is shown.

② Use the ▲ ▼ keys to highlight your selection.

When the cursor highlights these settings, press **OK** to:

FILE	key in desired file number
TITLE	key in desired title number
CHAPTER	key in desired chapter number
AUDIO	select audio options
SUBTITLE	select subtitle options
ANGLE	select camera angle options
FILE TIME	key in starting point for file play time
TT TIME	key in starting point for title play time
CH TIME	key in starting point for chapter play time
REPEAT	select repeat options
TIME DISP.	select time display options

③ Use **(0-9)** to key in specific settings.

④ Press ◄ to abort current setting or go back to previous menu level.

⑤ Press **OSD** to exit.

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SETUP operations

To maximize your playback experience, use SETUP to fine tune your settings.
Use the ▲,▼,◄,► keys to highlight your selection, and press **OK**.

① Press **SETUP.** A list of features is shown.

② Use the ▲ ▼ keys to highlight your selection.

When the cursor highlights these settings, press **OK** to:

GENERAL SETUP	select display and other options
AUDIO SETUP	select audio options
PREFERENCES	select playback preferences
PASSWORD SETUP	select password options

③ Press ◄ to abort current setting or go back to previous menu level.

④ Press **SETUP** to exit.

General Setup
When the cursor highlights these settings, press **OK** to:

TV DISPLAY	select display ratio
TV TYPE	select video standard of external TV set
OSD LANG	select on screen display language
SPDIF	select digital audio options
CAPTIONS	select captions options
SCREEN SAVER	select screen saver options

Press ◄ to abort current setting or go back to previous menu level

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Audio setup

When the cursor highlights these settings, press **OK** to:

SPEAKER SETUP	select speaker options
DOLBY DIGITAL SETUP	select dolby sound options
CHANNEL EQUALIZER	select equalizer options
3D PROCESSING	select surround sound options

Press ◀ to abort current setting or go back to previous menu level

Preferences

When the cursor highlights these settings, press **OK** to:

AUDIO	select audio language options
SUBTITLE	select subtitle language options
DISC MENU	select disc menu language options
PARENTAL	select parental options
DivX(R) VOD	get DivX ID for VOD
DEFAULT	Restore factory settings

Press ◀ to abort current setting or go back to previous menu level
Note: Parental options are only selectable when password mode is deactivated.

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Password Setup

When the cursor highlights these settings, press **OK** to:

PW MODE	switch password on / off
PASSWORD	change existing password (default: 99999)

Press ◀ to abort current setting or go back to previous menu level

Troubleshooting

If it appears that the DVD-Video player is faulty, first consult this checklist.
It may be that something has been overlooked.

WARNING

Under no circumstances should you try to repair the set yourself as this will invalidate the guarantee.
If a fault occurs, first check the points listed, before taking the set for repair. If you are unable to solve a problem by following these hints, consult your dealer or service centre.

Symptom	Remedy
No power	– Check if both plugs of the mains cord are properly connected. – Check if there is power at the AC outlet by plugging in another appliance. – Check if battery pack is inserted appropriately. – Check if car adaptor is connected appropriately.
Distorted picture	– Check the disc for fingerprints and clean with a soft cloth, wiping from centre to edge. – Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture / no colour with player menu	– The NTSC/PAL setting may be in the wrong status. Match your TV's setting with the player's setting.
No sound	– Check audio connections. If using a HiFi amplifier, try another sound source.

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Symptom	Remedy
Disc can't be played	– Ensure the disc label is upwards. – Clean the disc. – Check if the disc is defective by trying another disc.
The player does not respond to the remote control	– Aim the remote control directly at the sensor on the front of the player. Avoid all obstacles that may interfere with the signal path. Inspect or replace the batteries.
Distorted or B/W picture with DVD	– Use only discs formatted according to the TV-set used (PAL/NTSC).
No audio at digital output	– Check the digital connections. – Check the SETUP menu to make sure that the digital output is set to on.
Player does not respond to all operating commands during playback	– Operations are not permitted by the disc. – Refer to the instructions in the disc inlay.
Player feels warm	– When the player is in use for a long period of time, the surface will be heated. This is normal.

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Technical data

Dimensions	26 x 18 x 3.0 cm
	10.2 x 7 x 1.2 inches
Weight	1.13 kg / 2.48 lb
Power supply	DC 9V 2.2A
Power Consumption	30W
Operating temperature range	0 - 50°C (32 ~ 122°F)
Laser wavelength	650nm
Video system	NTSC / PAL / MULTI
Frequency response	20Hz ~ 20KHz ± 1dB
Signal/noise ratio	≥ 85dB
Audio distortion + noise	≤ -80(1KHz)
Channel separation	≥ 85dB
Dynamic range	≥ 80dB

Output
Audio out (analog audio)	Output level: 2V ± 10%
Load impedance:	10KΩ
Video out Output level:	1Vp - p ± 20%
Load impedance:	75Ω

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