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www.philips.com/welcome

BDP7200



EN Blu-Ray Disc Player

PHILIPS

Important notes for users in U.K.

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 BSI362 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 off 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.

Italia

DICHIARAZIONE DI CONFORMITA'

Si dichiara che l'apparecchio BDP7200, Philips risponde alle prescrizioni dell'art. 2 comma 1 del D.M. 28 Agosto 1995 n. 548. Fatto a Eindhoven

DE III - Communication

Philips Consumer Electronics Philips, Glaslaan 25616 JB Eindhoven, The Netherlands

Norge

Typeskilt finnes på apparatens underside.

Observer: Nettbryteren er sekundert innkoplet. Den innebygde netdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

LASER

CAUTION:

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

CAUTION:

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION:

INSIDE, NEAR THE DECK MECHANISM.

DK

Advarsel: Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå utsættelse for stråling.

Bemærk: Netafbryderen er sekundært indkoblet og ofbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.

S

Klass 1 laseraparat

Varning! Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1. Observera! Stömbrytaren är sekundärt kopplad och bryter inte strömmen från nätet. Den inbyggda nätdelen är därför ansluten till elnätet så länge stickproppen sitter i vägguttaget.

SF

Luokan 1 laserlaite

Varoitus! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

Oikeus muutoksiin varataan. Laite ei saa olla alttiina tippu-ja roiskevedelle.

Huom. Toiminnanvalitsin on kytketty toisiopuolelle, eikä se kytke laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettynä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.

CLASS 1 LASER PRODUCT

DOLBY DIGITAL PLUS

DOLBY TRUETT

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HDMI

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BONUS **VIEW**™ is a trademark of Blu-ray Disc Association.

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1 Important

Safety and important notice



Warning!

Risk of fire or electric shock!

- Ensure that air can circulate freely through the ventilation holes on this unit. Allow at least 5~10 cm clearance around the unit.
- Never expose this unit to direct sunlight, naked flames or heat.
- Never place this unit on other electrical equipment.
- Keep away from this unit during lightning storms.
- Never remove the casing of this unit. Please leave all maintenance work to qualified personnel.
- Keep this unit away from water, moisture and liquidfilled objects.

!

Caution!

- Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Batteries contain chemical substances, they should be disposed of properly.
- Visible and invisible laser radiation when open.
 Avoid exposure to beam.
- Ensure that the power outlet is always within reach.
 If abnormal situations occur, fully disconnect power (unplug power cord from the power outlet).



This product complies with the radio interference requirements of the European Community. This product complies with the requirements of the following directives and guidelines: 2006/95/EC, 2004/108/EC.

Recycle notice





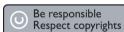


These symbols on the products, packaging, and/ or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Copyright notice



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

2 Your product

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at www.philips.com/welcome.

This Blu-ray disc player offers full high-definition video playback up to 1080p resolution for an amazing viewing experience. A highly detailed picture and increased sharpness delivers a more true-to-life picture.

Features highlight

Blu-ray disc

Blu-ray Disc is a next generation optical video disc which is capable of storing five times more data than a conventional DVD is. The large capacity makes it possible to benefit from the features such as high-definition videos, multichannel surround sounds, interactive menus and so on.

BD Java

With some BDs which support Java applications, you can enjoy the interactive functions such as games or interactive menus.

Upscale DVD for enhanced picture quality

Your current DVD will look even better than before thanks to video upscaling. Upscaling will increase the resolution of standard definition DVD to high definition up to 1080p over an HDMI connection. The picture will be less jagged and more realistic for a near high definition experience.

Enjoy your content on different kinds of media

Full backwards compatibility with DVD, CD ensures that you can continue to enjoy your current audio-video collection. Additionally, you can view JPEG digital pictures or listen to MP3 or Windows Media™ Audio music files.

Listen to the rich multi-channel surround sound

Multi-channel surround sound, which realises real-to-life sound and makes you feel that you are really there.

Intuitive user interface and remote control

The Philips logical user interface allows you to easily navigate through your content and settings, so you can quickly find what you are looking for.

Easy and simple connection to your HDTV via HDMI

Connect your BDP7200 to your HDTV with one single HDMI (High Definition Multimedia Interface) cable. Philips recommends HDMI 1.3 (category 2) cable (also known as High Speed HDMI cable) for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analogue signals, so you will get an excellent picture and sound quality, completely free from noise.

Thanks to other multiple outputs, you can also easily connect to your home theatre system or amplifier.

About EasyLink (HDMI Consumer Electronics Control)

EasyLink (HDMI CEC) allows you to operate the linked functions of this player with Philips brand TV with EasyLink feature.



Note

 Philips does not guarantee 100% interoperability with all HDMI CEC devices.

PiP (Picture-In-Picture) (BONUSVIEW)

Some BD-videos have the PiP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing PIP whenever the scene contains the secondary video.

Pop-up menu

Some BD-videos have pop-up menu which is a navigation menu that can be called up and be operated on the screen without interrupting the playback. You can call up the pop-up menu by pressing **DISC MENU / POP-UP MENU**. Contents in the pop-up menu vary depending on the disc.

HDMI Deep colour

Deep colour reduces the posterization effect of the playback image. Refer to chapter 'Adjust settings' - List of settings' - [HDMI Deep Colour].

HDMI 1080p/24 Output (BD only)

This unit is equipped with the feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive. (Available only when the display device is connected by an HDMI cable). Refer to chapter 'Adjust settings - List of settings' - [HDMI 1080p/24].

HDMI 1080p/24 Output (BD only)

This unit supports the high-definition audio such as Dolby Digital Plus, Dolby TrueHD and DTS-HD. These audio format can provide you with the higher audio quality than the traditional DVD does. To make the most of their high performance, connect this unit to an high-definition audio compatible AV receiver/amplifier with an HDMI cable. Refer to chapter 'Adjust settings - List of settings', change [HDMI Audio] to [HDMI Normal].

Symbols used in this user manual

To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

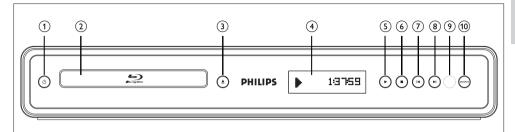
Symbol	Description
Ø BD	Refer to BD-video
ODVD VIDEO	Refer to DVD-video
(CD)	Refer to audio CD/dts CD
МРЗ	Refer to DVD±RW/±R and CD-RW/-R with MP3 files
WINDOWS MEDIA AUDIO	Refer to DVD±RW/±R and CD- RW/-R with Windows Media™ Audio files
JPEG	Refer to DVD±RW/±R and CD-RW/-R with JPEG files, Kodak Picture CD files included.



Note

- DVD-RW/-R recorded in VR mode or non compatible recording format are not playable.
- If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media

Product overview

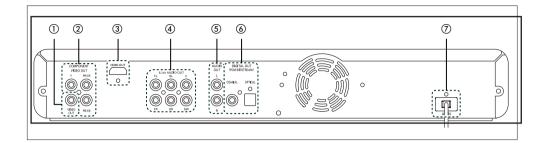


Front panel

- ① (b)
 - Press to turn the unit on and off.
- (2) Disc tray
 - Place a disc when opening the disc tray.
- ③ ♠ (Open/Close)
 - Press to open or close the disc tray.
- 4 Front panel display
 - Display playback status icon and various kinds of information. Refer to the table next to it.
- **(5)** ► (Play)
 - Press to start or resume playback.
- **⑥ ■** (Stop)
 - Press to stop playback.
- (7) ► (Previous)
 - Videos, music, pictures Previous
- (8) ► (Next)
 - · Videos, music, pictures Next
- 9 Infrared sensor window
- (10) OUTPUT
 - Press to change the resolution of HDMI output. (Not available during the playback of a BD-video or while displaying the settings menu)

Front panel display	Mode
<u>•</u>	Loading a disc.
>	Playback is in progress.
	Stop mode.
II	Pause mode.
>>	Fast forward mode.
44	Fast reverse mode.
I ▶	Slow forward mode.
_	Repeat function is set.
#	Display the home menu.
	Title is being played back. Indicating the current chapter/ track/file number and the elapsed playing time.
CHAPTER	Current chapter is in chapter repeat mode.
■ RESUME	Playback is in Resume-On- Stop mode.
■ MEDIA FL	Display the media filter screen.
▶ Dolpa D	Dolby Digital audio is being output.
▶ Dolpa HD	Dolby TrueHD audio is being output.

Back panel



(1) VIDEO OUT socket

• Use to connect a TV monitor, an AV receiver/amplifier or other device with an RCA video cable.

(2) COMPONENT VIDEO OUT sockets

· Use to connect a TV monitor with component video inputs with a component video cable.

(3) HDMI OUT socket

• Use to connect to display with an HDMI compatible port with an HDMI cable.

(4) 5.1ch AUDIO OUT sockets

• Use to connect to an AV receiver/ amplifier with 5.1-channel audio cables.

(5) AUDIO OUT sockets

• Use to connect a TV monitor, an AV receiver/amplifier or other device with an RCA audio cable

6 DIGITAL OUT (COAXIAL/OPTICAL) sockets

• Use to connect an AV receiver/amplifier, Dolby Digital/DTS decoder or other device with a digital audio coaxial/optical input socket with a digital audio coaxial/ optical cable.

(7) AC IN Terminal

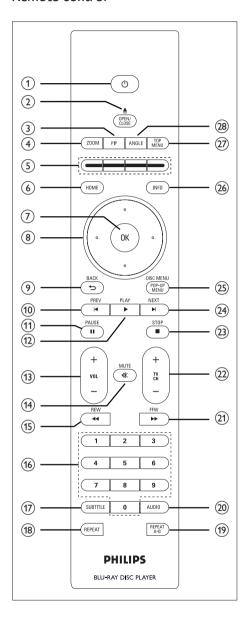
• Use to connect to the AC outlet with AC cord.



Note

- Do not touch the inner pins of the sockets on the back panel. Electrostatic discharge may cause permanent damage to the unit.
- · This unit does not have the RF modulator.

Remote control



- ① (Standby-On)
 - · Press to turn the unit on and off.

② OPEN/CLOSE ▲

• Press to open or close the disc tray.

③ PIP

 Press to switch picture in picture feature on/off. (only applicable to BD-video which supports the PIP function)

(4) ZOOM

• Zoom in or out the picture on the TV.

(5) Colour buttons

 Press to activate short cut keys on some BD-video function.

6 HOME

• Press to display the home menu.

(7) OK

• Press to confirm or select menu items.

(8) Cursor buttons (▲▼◀►)

• Press to select items or settings.

(9) BACK ⁵

• Press to return to the previously displayed menu or screen function.

(10) PREV I◀

- During playback, press once to return to the beginning of the current title, chapter or track.
- During the JPEG playback, press to return to the previous file.
- During playback, press twice to return to the previous title, chapter or track.

(11) PLAY ▶

 Press to start playback or resume playback.

(12) PAUSE II

- Press to pause playback.
- When playback is in pause mode, press repeatedly to forward the playback step by step.

(13) VOL + -

 Press to adjust the TV volume (only applicable to the PHILIPS brand TV).

(14) MUTE **□**X

 Press to mute the TV volume (only applicable to the PHILIPS brand TV).

(15) REW **◄**◀

 During playback, press to fast reverse the playback.

(6) Numeric buttons

- Press to select a chapter during playback.
- · Press to enter values in the input field.

(17) SUBTITLE

· Press to select subtitles on a disc.

(18) REPEAT

Press to toggle between various repeat modes.

(19) REPEAT A-B

• Press to play back a defined section between point A and B repeatedly.

20 AUDIO

 Press to select the audio channel (such as audio languages) on a disc.

(21) FFW ▶►

- During playback, press to fast forward the playback.
- When playback is in pause, press to slow forward the playback.

22 TV CH + -

 Press to change the channel up and down (only applicable to the PHILIPS brand TV).

②3 STOP ■

Press to stop playback.

②4 NEXT ►I

• During playback, press to skip to the next chapter, track or file.

25) DISC MENU / POP-UP MENU

- BD: Press to display the pop-up menu.
- DVD: Press to display the disc menu.

26 INFO

• Press to display the information display.

(27) TOP MENU

- BD: Press to display the top menu.
- DVD: Press to display the title menu.

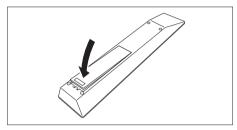
28 ANGLE

- Press to select camera angles on a disc.
- Press to rotate a picture (IPEG).

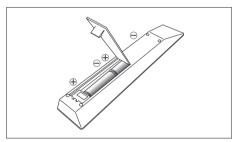
Installing the batteries in the remote control Install the batteries (R6/AA x2) matching the

Install the batteries (R6/AA ×2) matching the polarity indicated inside battery compartment of the remote control.

1 Open the cover.

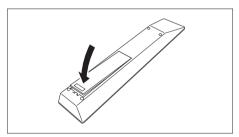


2 Insert batteries.



 Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

3 Close the cover.





Note

 Incorrect use of batteries can result in hazards such as leakage and bursting.

Using a Remote Control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
 - Line of sight: approx. 7m (23 feet)
 - **Either side of the centre:** approx. 5m (16 feet) within 30°
 - Above: approx. 5m (16 feet) within 15°
 - Below: approx. 3m (10 feet) within 30°



Guide to on-screen display

Home menu

When you turn on the unit, home menu appears automatically. Otherwise, press HOME.



[Disc Tray]

• To access the track/file list or media filter screen.

[Settings]

• To access the settings menus.

[Product Info]

• To access the product information.



• You can also download the latest firm ware from the web site which is displayed in the [Product Info] screen, and update the firm ware by yourself.

Menu Screen



- 1 Directory
 - Displays the current hierarchy.
- ② Menus
- 3 Sub menus/Options
 - Displays sub menus or options for the high-lighted item on the left whenever available.

3 Connect

This section describes the basic connections required for this Blu-ray disc player before it can be used.

Basic connections - Connect to TV

- Connect video cables
- Connect audio cables

Optional connections:

- Route audio to other devices
 - Connect to analogue stereo system
 - · Connect to digital amplifier/receiver
 - Connect to multi channel amplifier/ receiver



Note

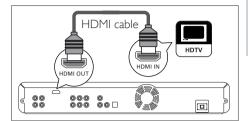
- Refer to the type plate at the rear or bottom of the product for identification and supply ratings.
- Before you make or change any connections, ensure that all the devices are disconnected from the power outlet

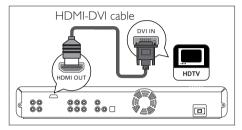
Connect video cables

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

- Option 1: Connect to HDMI socket (for a HDMI, DVI or HDCP-compliant TV).
- Option 2: Connect to component video socket (for a standard TV or Progressive Scan TV).
- Option 3: Connect to Video socket (for a standard TV).

Option 1: Connect to HDMI socket





- 1 Connect a HDMI cable (supplied) to HDMI OUT socket on this unit and the HDMI IN socket on your TV.
 - Use a HDMI-DVI adaptor in case your TV has only a DVI connection.



Note

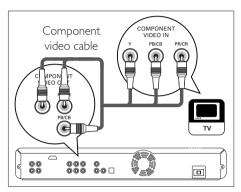
- To optimise the video output, refer to chapter 'Adjust settings - List of settings' - [HDMI Video Resolution] or press OUTPUT repeatedly to select the best resolution your TV can support.
- Analogue audio connection is needed for HDMI-DVI connection.
- Philips recommends HDMI category 2 cable, also known as High Speed HDMI cable, for optimal audio / video output.
- A simple 1-cable connection with a device having an HDMI (High-Definition Multimedia Interface) socket allows digital transfer of the digital pictures/sounds of BD-video, DVD-video and other devices.
- To play back the digital video images of a BDvideo or DVD-video via an HDMI connection, it is necessary that both the player and the display device (or an AV receiver / amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system).



Tip

• This type of connections provide best picture quality.

Option 2: Connect to component video socket



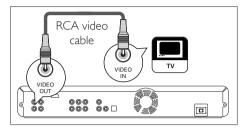
1 Connect the component video cable (not supplied) to the COMPONENT VIDEO OUT socket on this unit and the component video input sockets on your TV.

*

Гір

- This unit is compatible with the progressive scan system. The feature provides you with the higher quality pictures than traditional output system does. To utilise this feature, make sure a progressive scan TV is used. Refer to chapter 'Adjust settings - List of settings' - [Component Output] for details.
- The component video input socket on your TV may be labelled as Y Pb/Cb Pr/Cr or YUV.
- This type of connections provide good picture quality.

Option 3: Connect to video socket



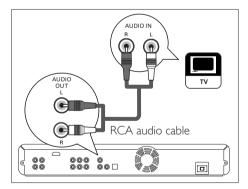
1 Connect a RCA video cable (supplied) to the VIDEO OUT socket on this unit and the video input socket on your TV.



Tip

- The video input socket on your TV may be labelled as A/V IN, VIDEO IN, COMPOSITE or BASEBAND.
- This type of connections provide standard picture quality.

Connect audio cables

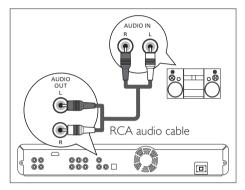


1 Connect an RCA audio cable (supplied) to the AUDIO OUT sockets on this unit and the AUDIO IN sockets on your TV.

Route audio to other devices

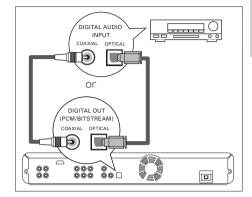
This section describes how you can route the sound from this Blu-ray disc player to other devices in order to enjoy sound output or audio play with surround capabilities.

Connect to analogue stereo system



1 Connect an RCA audio cable (supplied) to the AUDIO OUT sockets on this unit and the audio input sockets on the device.

Connect to digital amplifier/receiver

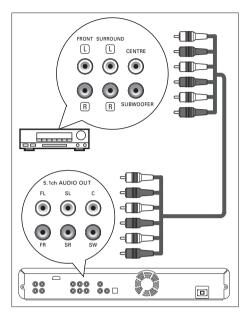


1 Connect a coaxial cable (not supplied) to the DIGITAL OUT (COAXIAL) socket on this unit and the DIGITAL IN (COAXIAL) socket on the device.

or

1 Connect an optical cable (not supplied) to the DIGITAL OUT (OPTICAL) socket on this unit and the DIGITAL IN (OPTICAL) socket on the device.

Connect to multi channel amplifier/receiver



Connect a 5.1ch audio cables (not supplied) to the **5.1ch AUDIO OUT** sockets on this unit and the audio input sockets on the device.



Tip

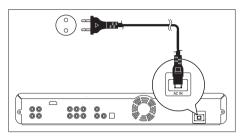
 To set up the speakers, refer to chapter 'Adjust settings - List of settings' - [Analogue Audio] for details.

Connect to power outlet



Caution!

• Insert the cords securely. Incomplete connections will result in the generation of noise.



After you made all the necessary connections, connect the AC cord to the AC IN on this unit and to the AC power outlet.

4 Get started

Find the correct viewing channel

- 1 After you have made all the necessary connections, press \circlearrowleft (STANDBY-ON) to turn on the unit.
- 2 Turn on the TV.
- 3 Press the button on the TV's remote control that accesses the external input channel.
 - It may be labelled SOURCE, AV or SELECT (refer to your TV's user manual).
 - Or press '2' on the TV's remote control, then press channel down button repeatedly until you see the PHILIPS splash screen.

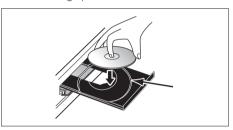
PHILIPS

- This is the correct viewing channel (external input channel).
- If a certain amount of time has passed since you turned on the unit, you may see the home menu instead of the PHILIPS splash screen.



How to insert a disc

- 2 Place the disc on the disc tray with its label side facing up.



- Make sure the disc is compatible with this unit. Refer to chapter 'Play -Information on playback' for the list of compatible discs.

To eject the disc:

- 1 Press **≜** to open the disc tray.
- 2 Remove the disc.
- 3 Press \triangle to close the disc tray.

5 Play

Information on playback

Playable discs and files

This unit is compatible to play back the following discs. To play back a disc, make sure that it meets the requirements for region codes and colour systems as described below. You can play back discs that have the following logos. Other disc types are not guaranteed to play back.

Logo	Playable disc
Surray Disc	BD Video (Single/Double layer) BD-RE* ver.2 (Single/Double layer) BD-R* (Single/Double layer)
VIDEO	DVD Video
DVD+ReiWritable R W	DVD±RW (Finalised video mode discs only)
RU PR	DVD±R (Single/Double layer) (Finalised video mode discs only)
COMPACT DIGITAL AUDIO	CD-DA (audio CD)
COMPACT CISC ReWritable	CD-RW
OISC Recordable	CD-R
	Kodak Picture CD
@dts Digital Surround	DTS-CD

Media	Playable files
CD-RW/-R	MP3
DVD+RW/+R	Window Media™ Audio
DVD-RW/-R	JPEG



Note

This unit cannot play back the following discs:

- Due to the intentional progression of the Blu-ray disc format by its standard setting authority, Philips cannot guarantee or warrant the playability of future extensions of the Blu-ray disc format with this product.
- *BD-R or BD-RE recorded in BDAV mode or non compatible recording format.
- Disc contents protected by Windows Media[™]
 Digital Rights Management (DRM).
- DVD-R/DVD-RW recorded in VR mode or non compatible recording format.
- The sound on the high-density Super Audio CD layer cannot be heard. Only the sound on the CD layer can be heard.
- · Playability of dual discs are not guaranteed.

Colour Systems

BD and DVD are recorded in different colour systems throughout the world. The most common colour system, used primarily in the U.K. and other EU countries, is PAL. This unit uses the PAL system. However, it is also possible to play back BD and DVD using other colour systems, such as NTSC.

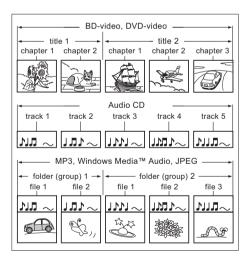
Region codes

This unit has been designed to play back BD-video with region 'B' and DVD-video with region '2' or 'ALL'. You cannot play back BD-video or DVD video that are labelled for other regions. Look for the symbols on the right on your BD-video or DVD-video. If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world.

Region	Region code
Europe	

Hint for disc playback

The contents of disc are generally divided into sections or folders (groups of titles/files) as shown below.



- 'Folders' refers to the groups of files.
- 'Tracks' refers to the contents recorded on the audio CD.
- 'Files' refers to the contents on a disc which are recorded in MP3, Windows Media™ Audio, or IPEG file format.

lcon	Description
	Group (folder)
	Group (folder) return
F	Music file

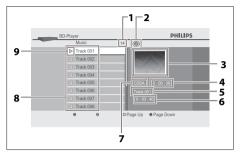


Note

- Unrecognisable characters will be replaced by '\(\sigma\)' asterisks,
- For DVD, this unit can recognize up to 999 groups (folders), and 9999 tracks / files.
- For CD, this unit can recognize up to 999 groups (folders), and 999 tracks / files.

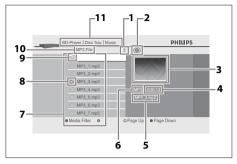
Guide to file list

Audio CD track list



- 1 Total track number
- Repeat status
- 3 Image
- 4 Elapsed playing time of the current track
- S Playing track number
- 6 Total time of the current track
- 7 Playing media
- (8) Track list
- Playback status

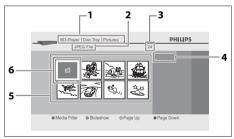
Video/Music Mode File List



e.g., MP3 files

- ① Number of contents in the current group (folder)
- 2 Repeat status (music mode only)
- (3) Image
- 4 Elapsed playing time of the current track
- (5) Current file name
- 6 Media type
- 7 Group (folder) / file list
- 8 Playback status
- Root folder
- 10 Group (folder) name
- 11 Directory

Picture Mode File List



e.g., JPEG files

- ① Directory
- 2 Group (folder) name
- 3 Number of contents in the group (folder)
- 4 Current file name
- **5** Group (folder) / file list (thumbnails)
- (6) Root folder

How to navigate through the track/file list

Button	Action
▲▼	To move the highlight up and down in the list.
OK	To access the files in a group (folder).
•	To to back to the previous screen. Or highlight (), then press OK.
(Yellow/Blue button)	To change the page of the list.
(Red button)	To go back to the media filter screen.
HOME	To go back to the home menu.

Basic playback

Play a BD or a DVD



- 1 Insert a disc.
- Playback may start automatically. If not, press PLAY ▶.
 - Some discs may show a title or a disc menu. In such case, refer to 'Access title/disc menu'.

Button	Action
PAUSE	To pause playback.
PLAY •	To return to the normal playback.
STOP	To stop playback. • Playback will be in Resume-On-Stop mode, and the home menu appears. • When you press PLAY ▶ next time, playback starts from

the point where it has been



Note

 When you press HOME, playback stops and the home menu appears.

stopped.

- For BD Java application, the Resume-On-Stop is not available.
- If you press OK instead of PLAY ▶, playback can be started from the beginning of the disc even if it was in the Resume-On-Stop mode.
- You can also start from the beginning of the disc if you press | while the resume message is displayed.
- The resume message can be removed by pressing BACK.
- Resume-On-Stop mode remains in effect even after power is turned off but will be canceled once the disc is ejected.

Play an audio CD/MP3/WMA/JPEG files



- Insert a disc.
 - → Audio CD: track list appears and playback starts automatically.
 - → MP3/WMA/IPEG files: Home menu appears.
- 2 With [Disc Tray] selected, press OK. → Media filter screen appears.



- Select the type of the file you want to play in the media filter screen, then press OK to display the file list.
 - Select [Music] if you want to play back music files such as MP3 or Window Media™ Audio.
 - Select [Pictures] if you want to play back the still images such as JPEG pictures.



Select a group (folder) or track/file you want to play, then press PLAY ▶ or OK to start playback.

Button	Action
PAUSE	To pause playback.
PLAY	To return to the normal playback.
STOP	To stop playback. • Playback will be in Resume-On-Stop mode. • For audio CD, playback starts from the point where it is stopped next time you press PLAY ▶. • For MP3/WMA, playback starts from the file being played back last next time you press PLAY ▶.
(Red button)	To go back to the media filter screen.



Note

- When you press HOME, playback stops and the home menu appears.
- If you press **OK** instead of **PLAY** ▶, playback can start from the beginning instead of resuming from the stop point.

Recommended specifications:

MP3 / Windows Media™ Audio

Sampling frequency: 32 kHz, 44.1 kHz or 48 kHz Constant bit rate: 112 kpbs - 320 kbps (MP3). 48 kpbs - 192 kpbs (WMA)

JPEG Upper limit: 2,560 × 1,900 dots (sub sampling is 4:4:4) $5,120 \times 3,840 \text{ dots}$ (sub sampling is up to 4:2:2) Lower limit: $32 \times 32 \ dots$ Maximum file size of a picture: 5 MB

Folder / file number limitations:

- DVD: 999 folders (groups) and 9,999 files
- CD: 999 folders (groups) and 999 tracks/files

Access title/disc menu



Some BD-video or DVD-video may contain a title menu which describes the contents of the disc, or a disc menu which guides you through the available functions in the disc. With such discs, a title menu or a disc menu may appear automatically when you insert the disc. Otherwise, press TOP MENU or DISC MENU/POP-UP MENU to call up the menu. Refer to the disc's manual on how to navigate through the menu.



Note

- Menus vary among discs. Refer to the information accompanying the disc for details.
- TOP MENU or DISC MENU/POP-UP MENU may not work with some discs.

Special playback

Fast forward/reverse play



- During playback, press FFW ▶▶ or REW ◀◀ repeatedly for fast forward or fast reverse.
 - Every time you press FFW ▶► or REW ◀◀, it changes the playback speed.
 - For BD and DVD, speed changes in five different levels.
 - For audio CD, MP3, Windows Media™
 Audio, speed changes in three different levels.
- Press PLAY ▶ to return to the normal playback.

Slow forward play

- 1 During playback, press PAUSE **II**, then press FFW ▶▶.
 - Every time you press FFW
 , the playback speed changes in three different levels.
 - 2 Press **PLAY** ▶ to return to the normal playback.



Note

· Only slow forward is available.

Step-by-step play

BD ODVD

- In pause mode, press PAUSE II repeatedly.
 - Every time you press PAUSE ■■, playback advances one step at a time.
- Press **PLAY** ▶ to return to the normal playback.



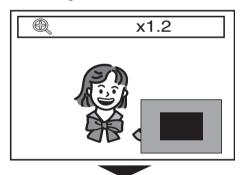
Note

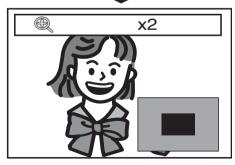
· Only step-by-step forward is available.

Zoom in/out



- During playback, press **ZOOM** repeatedly.
 - Every time you press ZOOM, it changes the zoom factor.





- You can move over the zoomed picture using **▲▼**◀ ▶.
 - → The grey box with an inner blue box displayed at the right bottom corner of the zoomed image is the position guide. The inner blue box indicates the zoomed area (not available for the JPEG playback).



Note

- For JPEG files, slide show of the zoomed picture is not possible.
- · For IPEG files, x4 zoom is not available.
- For some DVD, x4 zoom is not available.
- Zoom does not work during the playback of the BD-video.
- Zoom does not work while DVD menu is displayed.

Repeat play









Available repeat function vary depending the discs.

During playback, press **REPEAT** repeatedly to select the desired repeat function.

Available media	Repeat mode
BD-video / DVD-video	Chapter/title Repeat • The current chapter/ title will be played back repeatedly.
Audio CD / DTS CD / MP3 / WMA	Track Repeat The current track or file will be played back repeatedly.
Audio CD / DTS CD	All Repeat • All tracks in the media will be played back repeatedly.

MP3 / WMA	Group RepeatThe current group (folder) will be played back repeatedly.
Audio CD / DTS CD	Random Repeat Repeat the random playback.
MP3 / WMA	Random Repeat Repeat the random playback in a folder.



Note

The repeat setting will be canceled when you stop playback.

A-B Repeat play



You can play back the specific part (between point A and point B) repeatedly.

- 1 During playback press **REPEAT A-B** once at the point where you want to set point A.
- During playback press REPEAT A-B again at the point where you want to set point B.
 → As soon as you set the point B, the part between point A and point B starts to play repeatedly.
- 3 To cancel A-B repeat, press REPEAT A-B repeatedly until 'Off' appears.



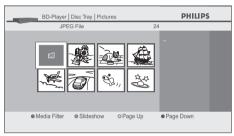
Note

 Point B should be set within the same title or track as point A.

Slide show

JPEG

- 1 Insert a disc.→ Home menu appears.
- With [Disc Tray] selected, press OK.→ Media filter screen appears.
- 3 Select [Picture], then press OK.
- 4 Open the folder which contains the desired JPEG files.



Highlight a file, then press Green button.
 → Slide show starts from the file you selected.

Button	Action
NEXT ▶I	To skip to the next file.
PREV	To skip to the previous file.
STOP	To stop the slide show. • Playback will be in Resume-On-Stop mode.
(Green button)	To resume the slide show.
PLAY ►	To resume the normal playback.
ANGLE	To rotate the picture.



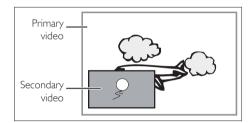
Note

 Large-size JPEG files take a few moments to be displayed.

PiP (Picture-In-Picture) (BONUSVIEW) setting



Some BD-videos have the PiP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **PIP** whenever the scene contains the secondary video.



- During playback, press PIP.→ PiP information appears.
- Press ▲▼ to select the secondary video you want to show.
 - The secondary video will be displayed with the secondary audio.
- 3 Press BACK to to remove the PiP information menu.



Tip

 Refer to chapter 'Change audio and video format

 Switch audio soundtrack' on how to output the secondary audio.

Search



Title/Chapter search



- 1 During playback, press **NEXT** ► I to skip the current title or chapter and move to the next.
 - The title or chapter moves forward by one at a time.
 - If there is no chapter in one title, the current title may be skipped.
- 2 To go back to the beginning of the current title or chapter, press PREV ◄.
 - Press PREV I repeatedly to go to the previous title or chapter. The title or chapter may move backward one at a time.

Use (INFO)

1 During playback, press INFO.

Disc	
Title	001/012
Chapter	001/023
Playing Time	00:01:31

- 2 Press ▲▼ to select [Title] or [Chapter].
- 3 Press the number buttons or ◀ ▶ to enter the title/chapter number.
- 4 Press OK.
 - → Playback starts from the beginning of the title/chapter.
- 5 Press INFO to remove the disc information menu.

Use the number buttons (direct search)

Title search

- 1 In stop mode, enter the title number you want to search using the number buttons.
 - Playback of the title starts in a few seconds.

Chapter search

- 1 During playback of a title, enter the chapter number you want to search using the number buttons.
 - → Playback of the chapter starts in a few seconds.

Time search



1 During playback, press INFO.

Disc	
Title	001/012
Chapter	001/023
Playing Time	00:01:31
	-

- 2 Press ▲▼ to select [Playing Time].
- 3 Press the number buttons to enter the time where you want to jump to.
 - E.g., to enter 1 hour 45 minutes and 15 seconds, press '14515'.
- 4 Press OK.
 - → Playback starts from the desired time
- Press **INFO** to remove the information display.

Change audio and video format

Switch subtitles

Some BD-video or DVD-video may have subtitles in one or more languages. For commercially available discs, the supported languages can be found on the disc case. Follow the steps below to switch the subtitle language during playback.

BD VIDEO

1 During playback, press **SUBTITLE** to bring up the subtitle information bar.



2 Press ◀ ▶ to select the desired subtitle option.

Option	Description
[Primary]	Set the subtitle for the primary video.
[Secondary]	Set the subtitle for the secondary video in the primary video.
[Subtitle Style]	Set the style for the subtitle.

3 Press ▲▼ or **SUBTITLE** repeatedly to switch the subtitle language or style.

ODVD

- 1 During playback, press **SUBTITLE** to bring up the subtitle information bar.
- 2 Press ▲▼ or SUBTITLE repeatedly to switch the subtitle.

Switch audio soundtrack

When playing back a video material recorded with two or more sound tracks (these are often in different languages), you can switch them during playback.

BD

During playback, press AUDIO to bring up the information bar.

⊲	Primary	♦	2	English	Dolby Digital	2ch	
---	---------	---	---	---------	---------------	-----	--

Press ◀ ▶ to select the desired audio option.

Option	Description
[Primary]	Set the audio for the primary video.
[Secondary]	Set the audio for the secondary video in the primary video.

3 Press ▲▼ or AUDIO repeatedly to switch the audio soundtrack or audio channel



• Refer to chapter 'Adjust settings - [Audio] settings' - [Blu-ray Disc Audio] on how to output the secondary audio.

DVD

- During playback, press AUDIO to bring up the information bar.
- 2 Press ▲▼ or AUDIO repeatedly to switch the audio soundtrack or audio channel.

Switch camera angles



Some BD-video or DVD-video have scenes shot from 2 or more angles. Angle information should be on the disc case if the disc contains multi-angle scenes.

- During playback, press ANGLE to bring up the camera angle information bar.
 - → The audio information menu is displayed.
- Press ▲▼ or **ANGLE** repeatedly to switch the angle.

6 Adjust settings

List of settings

In the settings menu, you can customise the various kinds of settings as you prefer. Refer to the following instruction to navigate through the settings menus.

- 1 Press **HOME** to access the home menu.
- 2 Press ▲▼ to select [Settings], then press OK.
- 3 Press ▲▼ to select [Advanced Set-up], then press OK.
- 4 Press ▲▼ to move the highlight up and down in the list.
 - Sub menus/options of the highlighted item will be displayed in the list on the right whenever available.
- To make a selection or to access the sub menus/options of an item, highlight the desired item, then press **OK**.
- 6 Press HOME to exit.
 - Refer to the following table for the types of settings you can customise.
 - Settings with (*) can be accessed from the 'Quick Set-up' also.
 - The item highlighted in grey is the default setting.

[Language] settings

[Audio] BD BD OVIDED

Option

[Default]	Set the audio language for BD-video or DVD-video playback.
List of available languages.	If you select [Default], the disc's original language will be in effect.

Description

Option	Description
[Off]	Set the subtitle language for
List of available	BD-video or DVD-video
languages.	playback.

[Disc Menu] PD PD PVIDED

Option	Description
[English]	Set the language for disc
List of available	menu.
languages.	

[Player Menu*]

Options	Description
[Auto]	Set the language for player
	menu (OSD menu). • [Auto] option is available
[English] (*)	only when 'EasyLink (HDMI CEC)' is set to 'On'. It activates the [Get
List of available languages.	& Set Menu Language] function. Refer to chapter 'Set-up - Activate EasyLink control' for details. Inside the parentheses next to [Auto] will be currently selected language.

[Video Output] settings

[TV Shape*]

 Refer to chapter 'Set-up - Set TV screen display format' for more information.

Option	Description
[4:3 Letter Box]	Set the aspect ratio of the playback image to fit your
[4:3 Pan&Scan]	TV.
[16:9 Widescreen]	
[16:9 Squeeze]	

[HDMI 1080p/24] @ BD

 This feature is available only when the display device is connected by an HDMI cable. Refer to chapter 'Set-up - Set HDMI video resolution' for more information.

Option	Description
[Auto]	Output the picture in 1080p/24 (1080 progressive with 24 frames per second) when it meets all the conditions listed below: • The video resolution and the frame rate of the material is 1080p/24. • [HDMI Video Resolution] setting is set to [1080p]. • The display device supports the 1080p/24 output.
[Off]	Output the picture in 50 Hz or 60 Hz.

[HDMI Video Resolution]

 This feature is available only when the display device is connected by an HDMI cable. Refer to chapter 'Set-up - Set HDMI video resolution' for more information.

Option	Description
[Auto]	Set the resolution of the
[480p/576p]	video signal being output
[720 _P]	from the HDMI OUT. • The selected resolution
[1080i]	must also be supported
[1080 _P]	by your TV monitor.

[HDMI Deep Colour]

 This feature is available only when the display device is connected by an HDMI cable, and when it supports deep colour feature.

Option	Description
[Auto]	Reduce the posterization effect by automatically outputting the 10 bit colour whenever the unit recognizes the connected display device supports deep colour feature.
[Off]	Output standard 8 bit colour.

[Component Output]

Option	Description
[480i/576i]	Set the resolution for the
[480p/576p]	component output picture.The selected resolution
[720 _P]	must also be supported
[1080i]	by your TV monitor. Refer also to your TV's manual. If you have selected the resolution not supported by your TV by mistake and the picture gets disturbed, press PLAY and hold on the front panel for 5 seconds to change the setting back to its default. When HDMI cable is connected, only [480i/576i] and the resolution selected in the [HDMI Video Resolution] will be available.



Note

• With regard to the DVD Video with a copy protection, the resolution will be set to 480p/576p regardless of the setting here. If 480p/576p output is not available, 480i/576i will be output.

[De-interlacing Mode]

Option	Description
[Auto]	Automatically detects the film or the video content, and appropriately converts it.
[Video]	Select this setting when the picture is distorted when using [Auto].

[Noise Reduction]

No available for BD-video.

Option	Description
[Off]	Deactivate the noise reduction.
[MPEG NR.]	Reduce the block noise seen characteristically in the MPEG files.
[3D NR.]	Reduce the rough background noise so that you can feel the greater feeling of depth.
[Combo (3D+MPEG)]	Activate both [MPEG NR.] and [3D NR.].

[Audio] settings

[Night Mode]

Option	Description
[Auto]	Activate the Night mode only during playback of Dolby TrueHD audio.
[On]	Night mode compresses the range between soft and loud sounds. Select this setting for quiet viewing at night.
[Off]	Enjoy surround sound with a full dynamic range.

[Down Sampling]

 Set the sampling rate for output the PCM audio from the digital output (coaxial/ optical).

Option	Description
[On]	Over 96kHz PCM audio will be down sampled at 48kHz.
[Off]	For BD or DVD recorded in LPCM without copyright protection, 2-channel audio signals up to 96 kHz are output as LPCM signals with no conversion.

[Virtual Surround] PDD PVDD

Option	Description
[On]	Select [On] to enjoy the
	stereophonic virtual space
	through your existing 2
[Off]	channel stereo system during
[]	playback of BD-video or
	DVD-video.

Option	Description
[Mix Audio Output]	The audio for the secondary video and the interactive application will be output together with the audio for the primary video.
[Primary Audio only]	Only the audio for the primary video will be output. When playing back a BD-video which only contains the primary audio, the audio output will be the same as case of [Primary Audio Only] even if the [Blu-ray Disc Audio] is set to [Mix Audio Output]

[HDMI Audio]

 This feature is available only when the display device is connected by an HDMI cable. Refer to chapter 'Set-up - Set HDMI audio format' for more information.

Option	Description
[HDMI Normal]	Set the audio format for the sound output from the
[PCM]	HDMI OUT.
[Off]	-

[Digital Out]

 When HDMI cable is connected, make sure [HDMI Audio] setting is set to [Off] before you change this setting. Refer to chapter 'Set-up - Set digital output format' for more information.

Option	Description
[Bitstream]	Set the audio format for the
[PCM]	sound output from the DIGITAL OUT (COAXIAL/OPTICAL).

[Analogue Audio]

 When HDMI cable is connected, make sure [HDMI Audio] setting is set to [Off] before you change this setting.

Option	Description
[Speaker Setup]	Set the speaker configuration to suite the size/number of your speakers. Refer to chapter 'Set-up - Speaker setup' for more information. • You can also output the test tone from each speaker by pressing Red button.
[Speaker Distance]	[Unit]: set the desired measure system, default setting is [Feet]. This measure system will be used for the speaker distance setting. Select the distance from the listening point to the speaker to get the ideal delay time.
[Speaker Level]	Set the volume level for each speaker to get the ideal audio balance.

[Parental] settings

[Rating Level]

• Refer to chapter 'Set-up - Set parental lock' for more information.

Option	Description
[AII]	Set the rating level for the
8 [Adult]	disc playback.
1 [Kid Safe]	

[New PIN]

Option	Description
	Set the new password for
	the [Parental] setting.

[Others] settings

[Auto Standby]

Option	Description
[On]	Set whether to turn off the
[Off]	unit (to the standby mode) automatically after 25 minutes of no action since the screen saver is activated. If the screen saver is off, the unit will be turned off after 30 minutes of no action.

[Front Panel Brightness]

Option	Description
[Bright]	Set the brightness of the
[Dim]	front panel display. When
[Auto]	[Auto] is selected, the front panel display automatically goes dim during playback.

[Screen Saver]

Option	Description
[On]	Set whether to activate the
[Off]	screen saver after 5 minutes of no action on the unit.

[Slide Show Interval] [JPEG]

-	•
Option	Description
[5sec]	Set the amount of time for
[10sec]	 displaying one picture before switching to the next one. For example, select [5sec] to switch the picture every 5 seconds.

[Slide Show Transition] [JPEG]

Option	Description
[Cut In/Out]	The pictures cut in and out sharply as playback progresses.
[Fade In/Out]	The pictures fade in and out as playback progresses.

[EasyLink (HDMI CEC)]

• This feature is available only when the display device is connected by an HDMI cable, and when it supports EasyLink (HDMI CEC) feature. Refer to chapter 'Set-up -Activate EasyLink control' for more information.

Option	Description
[On]	Set whether to utilise the
[Off]	EasyLink (HDMI CEC) function. EasyLink (HDMI CEC) function allows your PHILIPS brand EasyLink TV to act in conjunction with this unit or vice versa.

[Factory Default] settings

[Settings]

Option	Description
[Yes]	Reset all the settings to the
	factory default, except for
	[Parental] setting .
[No]	Does not perform the initialisation.

[Local Storage]

Option	Description
[Yes]	Initialise (clean up) the area used for BD application.
[No]	Does not perform the initialisation.

Set-up

Set TV screen display format

Use this feature to adjust the aspect ratio of the video source which is different from your TV's ratio to fit your TV monitor without distorting the picture.

- 1 Press HOME.
- 2 Select [Settings] > [Advanced Set-up] > [Video Output] > [TV Shape].

Option	Description
[4:3 Letter Box]	To enjoy 16:9 picture on 4:3 monitor. 16:9 picture is scaled down until the both sides of the picture fits the 4:3 TV.
[4:3 Pan Scan]	To enjoy 16:9 picture on 4:3 monitor. Both sides of the picture are trimmed to fit the 4:3 TV without distorting the aspect ratio of the picture.
[16:9 Wide Screen]	To enjoy 16:9 picture on 16:9 monitor. Select this setting when you want to enjoy 16:9 picture on the 16:9 TV.
[16:9 Squeeze]	To enjoy 4:3 picture on 16:9 monitor. Use this setting to display 4:3 picture on the 16:9 TV without distorting the aspect ratio of the

picture.

Set HDMI video resolution

Set the resolution of the video signal being output from the HDMI OUT.

- 1 Press HOME.
- Select [Settings] > [Advanced Set-up] > [Video Output] > [HDMI Video Resolution].
 - When you make a selection, the TV monitor temporarily goes blank and then comes back again.
 - If it does not, press OUTPUT to change the resolution or press and hold PLAY ▶ on the front panel for 5 seconds to change the setting back to its default.

Actual output resolution by Blu-ray disc

HDMI Video Resolution setting	480p/ 576p	720p	1080i	1080p	Auto	
Source						
480i/60Hz	480p/	720p/	1080i/	1080p/	The highest	
720p/60Hz	60Hz	60Hz	60Hz	60Hz	60Hz	resolution supported by
1080i/60Hz					your display device will be	
576i/50Hz	576p/		- p	1080i/	1080p/	in effect
720p/50Hz	50Hz	50Hz		50Hz 50Hz	50Hz	OHz 50Hz
1080i/50Hz						
720p/24Hz	480p/	720p/	1080i/	1080p/		
1080p/24Hz	60Hz	60Hz	60Hz	24Hz or 60Hz ^(*1)		

 (*1) To output the video in 24Hz, the connected display device must support 24Hz output, and [HDMI 1080p/24] should be set to [Auto]. Otherwise, the image will be output in 60Hz.

Actual output resolution by DVD

HDMI Video Resolution setting	480p/ 576p	720p	1080i	1080p	Auto	
480i/60Hz	480p/ 60Hz	720p/ 60Hz	1080i/ 60Hz	1080p/ 60Hz	The highest resolution supported by your display	
576i/50Hz	576p/ 50Hz	720p/ 50Hz	1080i/ 50Hz	1080p/ 50Hz	device will be in effect automatically	



Note

- When HDMI cable is connected, only [480i/576i] and the resolution selected in the [HDMI Video Resolution] will be available for the [Component Output].
- Composite video out (VIDEO OUT) can only output 480i/60 or 576i/50.
- When outputting 24Hz signal from the HDMI OUT, no signal will be output from the COMPONENT VIDEO OUT and the VIDEO OUT.
- The selected resolution must also be supported by your display device.
- If your TV and the unit is connected by a DVI cable and if you select [Auto], [480p/576p] will be in effect automatically
- Pressing PLAY ▶ on the front panel for 5 seconds changes the setting back to its default. ([Component Output] setting will also be reset to default [480i/576i]).
- Refer also to your TV's manual.

Set HDMI audio output format

- 1 Press HOME.
- $\label{eq:select_settings} 2 \quad \text{Select [Settings]} > [\text{Advanced Set-up}] > \\ [\text{Audio}] > [\text{HDMI Audio}].$
- 3 Refer to the table below to see which setting you should choose.

	[HDMI Audio] setting →	[HDMI Normal]		[PCM]		[Off]
	[Blu-ray Disc Audio] setting ⇒	[Primary Audio Only]	[Mix Audio Output]	[Primary Audio Only]	[Mix Audio Output]	Regardless
Media ♣	Audio source ♣	Which audio format device.	Which audio format can be output depends on the compatibility of the conne device.			e connected
BD-video	Dolby Digital	Dolby Digital / PCM / Mute	Dolby Digital / PCM / Mute	PCM / Mute	PCM / Mute	Mute
	Dolby Digital Plus	Dolby Digital Plus / Dolby Digital / PCM *1-1 / Mute	Dolby Digital / PCM *1-2 / Mute	PCM *1-1 / Mute	PCM *1-2 / Mute	Mute
	Dolby TrueHD	Dolby TrueHD / Dolby Digital / PCM *2-1 / Mute	Dolby Digital / PCM *2-2/ Mute	PCM *2-1/ Mute	PCM *2-2/ Mute	Mute
	DTS	DTS / PCM / Mute	Dolby Digital / PCM / Mute	PCM / Mute	PCM / Mute	Mute
	DTS-HD	DTS-HD / DTS / PCM *3-1/ Mute	Dolby Digital / PCM *3-2 / Mute	PCM *3-1 / Mute	PCM *3-2 / Mute	Mute
	LPCM	PCM / Mute	PCM / Mute	PCM / Mute	PCM / Mute	Mute
DVD-video	Dolby Digital	Dolby Digital / PCM	/ Mute	PCM / Mute		Mute
	DTS	DTS / PCM / Mute		PCM / Mute		Mute
	LPCM	PCM / Mute		PCM / Mute		Mute
Audio CD/ MP3/ Window Media ™ Audio	PCM	2ch PCM / Mute		2ch PCM / Mute		Mute
DTS-CD	DTS	DTS / PCM / Mute		PCM / Mute		Mute

- (*1-1) Full decoded.
- (*1-2) Only the independent substream is decoded.
- (*2-1) Dolby TrueHD stream is decoded.
- (*2-2) Only the Dolby Digital Substream is decoded.
- (*3-1) Full decoded.
- (*3-2) Only the core substream is decoded.



 When playing back a BD-video which only contains the primary audio, the audio output will be the same as case of [Primary Audio Only] even if the [Blu-ray Disc Audio] is set to [Mix Audio Output].

Set digital output format

- 1 Press HOME.
- $2 \quad \text{Select [Settings]} > [\text{Advanced Set-up}] > \\ [\text{Audio}] > [\text{Digital Out}].$
- 3 Refer to the table below to see which setting you should choose.

	[Digital Out] setting →	[Bitstream]		[PC	CM]
	[Blu-ray Disc Audio] setting →	[Primary Audio Only]	[Mix Audio Output]	[Primary Audio Only]	[Mix Audio Output]
Media ↓	Audio source ₹				
BD-video	Dolby Digital	Dolby Digital	Dolby Digital	DownMix PCM	DownMix PCM
	Dolby Digital Plus	Dolby Digital	Dolby Digital	DownMix PCM*1-1	DownMix PCM*1-2
	Dolby TrueHD	Dolby Digital	Dolby Digital	DownMix PCM*2-1	DownMix PCM*2-2
	DTS	DTS	Dolby Digital	DownMix PCM	DownMix PCM
	DTS-HD	DTS	Dolby Digital	DownMix PCM*3-1	DownMix PCM*3-2
	LPCM	DownMix PCM	DownMix PCM	DownMix PCM	DownMix PCM
DVD-Video	Dolby Digital	Dolby Digital DownMix PCM			
	DTS	DTS DownMix PCM			
	LPCM	DownMix PCM DownMix PCM			
Audio CD/ MP3/ Window Media ™ Audio	PCM	2ch PCM		2ch PCM	
DTS-CD	DTS	DTS		DownMix PCM	

- (*1-1) Full decoded.
- (*1-2) Only the independent substream is decoded.
- (*2-1) Dolby TrueHD stream is decoded.
- (*2-2) Only the Dolby Digital Substream is decoded.
- (*3-1) Full decoded.
- (*3-2) Only the core substream is decoded.



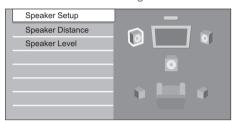
Note

 When playing back a BD-video which only contains the primary audio, the audio output will be the same as case of [Primary Audio Only] even if the [Blu-ray Disc Audio] is set to [Mix Audio Output].

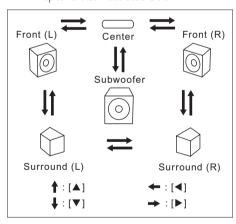
Speaker Setup

Set the speaker configuration to suite the size/ number of your speakers.

- 1 Press HOME.
- $2 \quad \text{Select [Settings]} > [\text{Advanced Set-up}] > \\ [\text{Audio}] > [\text{Analogue Audio}] > [\text{Speaker Setup}].$
- 3 Highlight the speaker you want to set in the illustration on the right.



 If you press Red button, each speaker outputs the test tone for 2 seconds in rotation. You can move among the speakers as illustrated below:



4 Press **OK** repeatedly to change the setting.

Option	Suitable for
[Large]	Large speakers with the capacity for powerful low frequency sound.
[Small]	Small speakers which do not bare the powerful low frequency sound. *
[On]	When subwoofer speaker is connected.
[Off]	No speakers.

 (*) With regards to the low frequency sound which is less than 100Hz, the sound will be output from the subwoofer.



Note

- For subwoofer, only on/off is available. (You cannot change the size of the subwoofer).
- When the front speakers are set to [Small], subwoofer setting remains [On] and cannot be changed.
- When subwoofer is set to [Off], the front speaker setting remains [Large] and cannot be changed.

Set parental lock

Some BD-video or DVD-video feature a parental lock level. Playback stops if the ratings exceed the levels you set, it requires you to enter a password before the disc play. This feature prevents your children from viewing inappropriate material.

- 1 Press HOME.
- Select [Settings] > [Advanced Set-up] > [Parental], then press OK.



If a PIN code has not been set:

- **3a** Enter 4-digit PIN code using the **number** buttons.
 - '4737' cannot be used.
 - Press Red button to return to the menu screen.

If a PIN code has already been set:

3b Enter 4-digit PIN code using the **number** buttons

If you want to change the PIN code:

3c Enter 4-digit PIN code using the **number buttons**. Then enter the new PIN code

If you forget the PIN code:

- 3d Enter '4737', then press OK. A warning message appears, press OK again.
 - → Current PIN code and the **[Parental]** settings are now cleared.
 - Follow the above steps to create a new PIN code.

4 After entering the PIN code, [Rating Level] appears. Select desired rating level then press OK.

Rating Level New PIN	All
New PIN	8 [Adult]
	7
	6
	5
	4
	3
	2

- [All] Parental lock is inactive.
- [8-Adult] DVD software of any grades can be played.
- [7] [NC-17] No one under 17 admitted.
- [6] [R] Restricted; under 17 requires accompanying parent or adult guardian.
- [5] [PGR] Parental guidance recommended.
- [4] [PG13] Unsuitable for children under 13.
- [3] [PG] Parental guidance suggested.
- [2] [G] General audience.
- [1 Kid Safe] Suitable for children.

To cancel parental lock temporarily

Some discs allow you to cancel the parental lock temporarily.

- 1 With those discs, the message below appears when you try to play them back: [Please enter your PIN to unblock content].
- Follow the instruction which appears on the screen to cancel the parental lock.
 → After entering the PIN code, [Rating Level] appears.
- 3 Select desired rating level then press **OK**.

Activate EasyLink control

EasyLink (HDMI CEC) function allows your TV (limited to PHILIPS brand EasyLink TV) to act in conjunction with this unit, or vice versa.

- 1 Press HOME.
- 2 Select [Settings] > [Advanced Set-up] > [Others] > [EasyLink (HDMI CEC)].

When **[EasyLink (HDMI CEC)]** setting is set to **[On]**, functions listed below will be available.

One touch play

When this unit is turned on, the TV also is turned on and the appropriate external input channel will be selected automatically. The appropriate external input channel can also be selected on your TV automatically when you press PLAY ▶, PREV I◄, NEXT ▶I, number buttons, TOP MENU, HOME, INFO, DISC MENU/POP-UP MENU, or of this unit when the unit's power is on.

Standby

When you press and hold \circlearrowleft (Standby-On) for 2 seconds, it turns off the power of the TV first and then turns off the power of this unit also.

When the connected EasyLink (HDMI CEC) compatible display device is turned off, this unit may also turns off together.

System Information

- Get & Set Menu Language

The unit recognises the OSD language set for the TV and automatically sets the same language as the player menu language (OSD menu language) for this unit.

 This feature is available only when [Auto] is selected in the [Player Menu] in the settings menu.

Reset to factory default

You can reset the settings to default.

- 1 Press HOME.
- 2 Select [Settings] > [Factory Default], then press OK.
- 3 Press ▲▼ to highlight the desired option, then press OK.

Option	Description
[Settings]	All the settings will be reset to default, except for the [Parental] setting.
[Local Storage]	Local storage used for BD- lava will be re-formatted.

4 Press **OK** to go back to the settings menu, or press **HOME** to go back to the home menu.

7 Additional information

Care



Caution!

 Never use solvents such as benzene, thinner, cleaners available commercially, or anti-static sprays intended for discs.

Clean discs

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre to out. Do not wipe in a circular motion.

Clean disc lens

If this unit still does not perform properly although you refer to the relevant sections and 'Troubleshooting' in this user manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorised Service Centre for inspection and cleaning of the laser optical pickup unit.

Clean the cabinet

Wipe the front panel and other exterior surfaces of the unit with a soft, slightly damp cloth.

Disc handling

Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.

Always store the disc in its protective case when it is not used.

Note that discs with special shapes (heart-shaped discs, octagonal discs, etc.) cannot be played back on this unit. Do not attempt to play such discs, as they may damage the unit.

Specifications



Note

Specification and design are subject to change without notice.

Accessories supplied

- Quick Start Guide
- · Remote control and batteries
- HDMI cable (high speed)
- RCA audio cable
- RCA video cable
- Power cable
- User manual (CD-ROM)

Video

- Signal system: PAL / NTSC
- Composite video output: 1 Vp-p (75 ohm)
- · Component video output:
 - Y: 1 Vp-p (75 ohm)
 - Pb: 0.7 V-pp (75 ohm)
 - Pr: 0.7 V-pp (75 ohm)
- HDMI output: 480p, 576p, 720p, 1080i, 1080p

Audio

- 2 Channel analogue output
 - Audio Front L+R: 2 Vrms (> 1 kohm)
- 5.1 Channel analogue output
 - Audio Front L+R: 2 Vrms (> 1 kohm)
 - Audio Surround L+R: 2 Vrms (> 1 kohm)
 - Audio Centre: 2 Vrms (> 1 kohm)
 - Audio Subwoofer: 1.15 Vrms (> 1 kohm)
- Digital output: 0.5 Vp-p (75 ohm)
 - · Optical, Coaxial
- HDMI output:
- · Sampling frequency:
 - MP3: 32 kHz, 44.1 kHz, 48 kHz
 - WMA: 44.1 kHz, 48 kHz
- Constant bit rate:
 - MP3: 112 kbps 320 kbps
 - WMA: 48 kbps 192 kbps

Main Unit

- Dimensions (w x h x d): $435 \times 70 \times 348$ (mm)
- Net Weight: 4.1 kg

Remote Control

- Operating distance:
 - Line of sight: 7m (maximum)
 - Either side of centre: 5m within 30° (maximum)
 - Above: 5m within 15° (maximum)
 - Below: 3m within 30° (maximum)

Operating Environment

- Operating temperature: 5°C (41°F) 40°C (104°F)
- Operating humidity: No condensation (< 80%)

Power consumption

- Power supply rating: 110~240V ~AC, 50 Hz
- Power consumption: 30W
- Power consumption in standby mode: 0.2W

45

8 Troubleshooting



Warning!

 Risk of electric shock. Never remove the casing of this unit.

To keep the warranty valid, never try to repair the system yourself.

If you encounter problems when using this unit, check the following points before requesting service. If the problem remains unsolved, register your product and get support at www.philips.com/welcome.

General

No reaction to the remote control.

- Connect the product to the power outlet.
- Point the remote control at the product.
- Insert the batteries correctly.
- Insert new batteries in the remote control.

Picture

No video signal on the display device.

- Turn on the TV.
- Set the TV to the correct external input.
- Select the correct video resolution using OUTPUT on the front panel.
- Press and hold PLAY ▶ on the front panel for 5 seconds to change the setting back to its default.

No video/audio signal on the display device via HDMI cable. • If the unit is connected to the unauthorised display device with an HDMI cable, the audio/video signal may not be output.

No high-definition video signal on the TV.

- Does the disc contain high-definition video? High-definition video is not available when the disc does not contain it.
- Does the TV support high-definition video? High-definition video is not available when the TV does not support it.

Sour	nd

No audio signal from the loudspeakers of the TV.

 Assign the audio input of the TV to the corresponding video input.

No audio signal from the loudspeakers of the audio system.

- Turn on the audio system.
- Set the audio system to the correct external input.
- Increase the volume level of the audio system.

No 5.1-channel audio from the loudspeakers of the audio system.

- Does the disc contain 5.1-channel audio? The 5.1-channel audio is not available when the disc does not contain it.
- Does the audio system support 5.1-channel audio? The 5.1-channel audio is not available when the audio system does not contain it.
- In the settings menu, set [HDMI Audio] to [Off].

Play

Cannot play back a disc.

- Make sure that the product supports the disc.
- Make sure that the Blu-ray Disc player supports the region code of the DVD or BD.
- For DVD±RW or DVD±R, make sure that the disc is finalised.
- Clean the disc.

Cannot play back JPEG files from a disc.

• Make sure that the disc was recorded in the UDF, ISO9660 or |OLIET format.

Cannot play MP3 files and Windows Media™ Audio from a disc.

- Make sure that the disc was recorded in the UDF, ISO9660 or |OLIET format.
- Make sure that the bit rate of the MP3 files is between 112 and 320 kbps.
- Make sure that the sample rate of the MP3 files is 32kHz, 44.1kHz or 48kHz.
- Make sure that the sample rate of the Windows Media[™] Audio files is 44.1kHz or 48kHz.

Cannot find a JPEG file.

- Make sure that the selected group (folder) does not contain more than 9,999 files for DVD, and 999 files for CD.
- Make sure that the file extension is .jpg, .JPG, .jpeg or .JPEG.

Cannot find an MP3 and Windows Media™ Audio file.	 Make sure that the selected folder does not contain more than 9,999 files for DVD, and 999 files for CD. Make sure that the file extension is .mp3 or .MP3, and .wma or .WMA for Windows Media™ Audio.
'X' appears in the upper right hand corner of the screen.	The operation is not possible.
Error message appears when select [Auto] in the [Player Menu].	 Make sure that the unit is connected to the Philips brand EasyLink TV and the [EasyLink (HDMI CEC)] is set to [On]. This error message may appear when your TV's OSD language is not supported by this unit.

9 Glossary

Analogue Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound.

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

Blu-ray Disc (BD)

Blu-ray Disc is a next generation optical video disc which is capable of storing much more data than a conventional DVD is. The large capacity makes it possible to benefit from the features such as high-definition videos, multichannel surround sounds, interactive menus and so on.

Chapter

Just as a book is split up into several chapters, a title on a BD-video or DVD-video is usually divided into chapters.

Component Video Output

Each signal of luminance (Y) and component (PB/CB, PR/CR) is independent to output so that you can experience picture colour as it is. Also, due to compatibility with progressive video (480p/576p), you can experience higher-density picture than that in interlace (480i/576i).

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analogue-to-digital converter, generating a stream of numbers. On playback, a digital-to-analogue converter generates an analogue signal based on these numbers.

DTS (Digital Theatre System)

DTS is a multi channel surround sound system. You can enjoy movie dynamic and realistic sound like movie theatre. DTS surround sound technologies were developed by DTS, Inc.

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multichannel audio.

HDCP

High-bandwidth Digital Content Protection is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorised copyright).

HDMI (high definition multimedia interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

JPEG (joint photographic experts group)

JPEG is a method of compressing still picture files. You can copy JPEG files on CD-RW/-R, DVD-RW/-R or DVD+RW/+R from a computer and play back the files on this unit.

MP3 (MPEG audio layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-R, DVD-RW/-R or DVD+RW/+R from the computer and play back the files on this unit.

PCM (pulse code modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM.

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Title

A collection of chapters on BD-video or DVD-video.

Track

Audio CD use tracks to divide up the content of a disc. The BD-video or DVD-video equivalent is called a chapter.

Windows Media™ Audio

Windows Media[™] Audio is the audio compressing technology developed by Microsoft. You can copy Windows Media[™] Audio files on CD-RW/-R, DVD-RW/-R or DVD+RW/+R from a computer and play them back on this unit.



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