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BDP7200

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EN BLU-RAY DISC PLAYER



PHILIPS

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PRECAUTIONS

Return your Product Registration Card or register online at www.philips.com/welcome today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once, **or register online at www.philips.com/welcome** to ensure:

*Proof of Purchase

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PHILIPS

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P.S. To get the most from your PHILIPS purchase, be sure to complete and return your Product Registration Card at once, or register online at: www.philips.com/welcome

Know these
safety symbols



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



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



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



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

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

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

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

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

Model No. _____


Serial No. _____

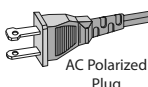
PHILIPS Visit our World Wide Web Site at <http://www.philips.com/welcome>

PRECAUTIONS

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspiciously fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70- 1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
 - a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.
23. **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
24. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
25. **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.



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Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this device to rain or moisture.

Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this device void the user's authority to operate it.

Department of Health and Human Services (DHHS) Certification: Complies with 21 Center for Radiation (CFR) chapter 1 subchapter J applicable at time of manufacture.

Laser Safety: This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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. THE BEAM IS LOCATED INSIDE, NEAR THE DECK MECHANISM.

Special Information for Canadian Users: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB- 003 du Canada.

Radio/TV Interference: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the device and the receiver.
- 3) Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

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Copyright Protection: Unauthorized copying, broadcasting, public performance, and lending of Discs are prohibited.

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

Declaration of Conformity

Model Number: BDP7200/37

Trade Name: Philips

Responsible Party: PHILIPS CONSUMER ELECTRONICS

A Division of Philips Electronics North America Corp

P.O. Box 671539 Marietta, GA 30006-0026

1-888-PHILIPS (744-5477)

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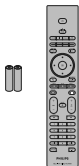


Product that have earned ENERGY STAR® are designed to protect the environment through superior energy efficiency.

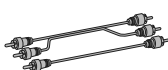
PRECAUTIONS

Supplied Accessories

Remote Control
With Batteries
(AAx2)



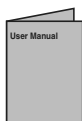
RCA Audio/Video
Cables



AC Cord



User Manual



Quick Start Guide



Registration Card



Maintenance

Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on page 40 before returning the product.
- If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you. For online reference, please visit our web site at <http://www.philips.com/welcome>

Cleaning the cabinet

- Wipe the front panel and other exterior surfaces of the unit with a soft, slightly damp cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

Cleaning discs

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

Cleaning the disc lens

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

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.

Installation Location

For safety and optimum performance of this unit:

- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from devices of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

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FEATURES

Watch movies in the highest picture quality available for your HDTV. The BDP7200 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

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, multi-channel surround sounds, interactive menus and so on.

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BD Java

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

Upconvert DVD for enhanced picture quality

Your current DVD will look even better than before thanks to video upconversion. Upconversion 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 music files.

Listen to the rich multi-channel surround sound

Multi-channel surround sound, which realizes 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 category 2 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 theater system or amplifier.

About EasyLink (HDMI CEC) (Consumer Electronics Control)

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

Philips does not guarantee 100% interoperability with other brands of HDMI CEC compliant devices.

PiP

Some BD-videos have the PiP (picture-in-picture) 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 color

Deep color reduces the posterization effect of the playback image. Refer to "HDMI Deep Color" in the "LIST OF SETTINGS" on page 31.

HDMI 1080p/fps 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 "HDMI 1080p/fps" in the "LIST OF SETTINGS" on page 31.

Product Info

"Product Info" screen provides you with the information on this unit's hardware and software version 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.

To access "Product Info", select "Product Info" in the home menu.

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.

* DVD-RW/-R recorded in VR mode or non compatible recording format are not playable.

Symbol	Description
	Description refers to BD-video
	Description refers to DVD-video
	Description refers to audio CD/dts CD
	Description refers to DivX® file
	Description refers to DVD+RW/+R, DVD-RW/-R and CD-RW/-R with MP3 files
	Description refers to DVD+RW/+R, DVD-RW/-R and CD-RW/-R with Windows Media™ Audio files
	Description refers to DVD+RW/+R, DVD-RW/-R and CD-RW/-R with JPEG files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

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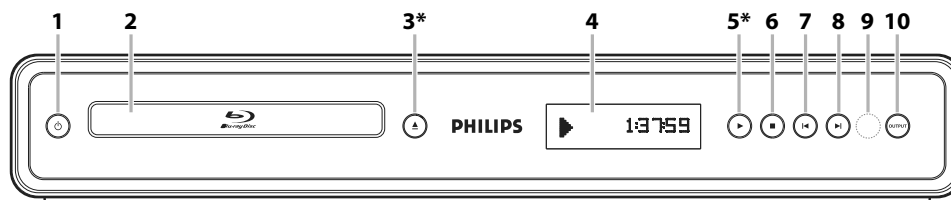
Function Setup

Others



FUNCTIONAL OVERVIEW

Front Panel

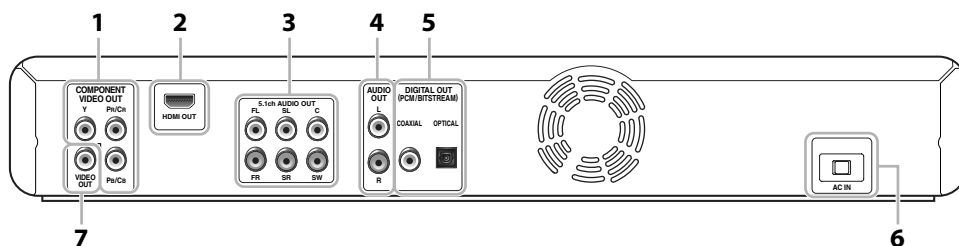


* The unit can also be turned on by pressing these buttons.

1. **⏻ (STANDBY-ON) button**
 - Press to turn the unit on and off.
2. **Disc tray**
 - Place a disc when opening the disc tray.
3. **⏮ (OPEN/CLOSE) button***
 - Press to open or close the disc tray.
4. **Display**
 - Refer to "Front Panel Display" on page 12.
5. **▶ (PLAY) button***
 - Press to start or resume playback.
6. **■ (STOP) button**
 - Press to stop playback.
7. **◀ (PREVIOUS) button**
 - Videos, music, pictures - Previous
8. **▶ (NEXT) button**
 - Videos, music, pictures - Next
9. **Infrared sensor window**
 - Receive signals from your remote control so that you can control the unit from a distance.
10. **OUTPUT button**
 - Press to change the resolution of HDMI output. (Not available during the playback of a BD-video or while displaying the settings menu)

FUNCTIONAL OVERVIEW

Rear Panel



1. COMPONENT VIDEO OUT jacks

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

2. HDMI OUT jack

- Use an HDMI cable to connect to a display with a HDMI compatible port.

3. 5.1ch ANALOG AUDIO OUT Jacks

- Connects the audio output to an AV receiver / amplifier.

4. AUDIO OUT jacks

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

5. DIGITAL OUT (COAXIAL/OPTICAL) jacks

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

6. AC IN Terminal

- Use the AC cord to connect to the AC outlet.

7. VIDEO OUT jack

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

Note

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

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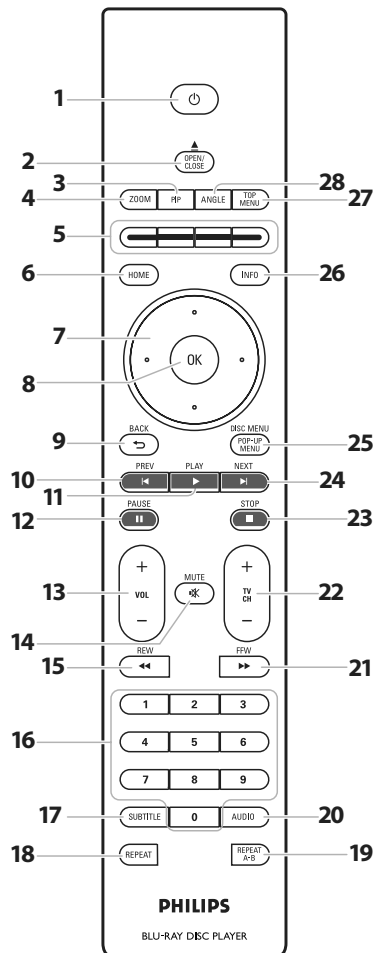
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FUNCTIONAL OVERVIEW

Remote Control



* The unit can also be turned on by pressing these buttons.

- 1. ⏻ (STANDBY-ON) button**
 - Press to turn the unit on and off.
- 2. OPEN/CLOSE ▲ button***
 - Press to open or close the disc tray.
- 3. PIP button**
 - Press to switch picture in picture feature on/off (only applicable to BD-video which supports the PIP function).
- 4. ZOOM button**
 - Press to enlarge the picture on the screen.
- 5. Red/Green/Yellow/Blue button**
 - Press to activate short cut keys on some BD-video function.
- 6. HOME button**
 - Press to display the home menu.
- 7. Cursor ▲ / ▼ / ◀ / ▶ buttons**
 - Press to select items or settings.
- 8. OK button**
 - Press to confirm or select menu items.
- 9. BACK ↶ button**
 - Press to return to the previously displayed menu or screen function.

10. PREV ◀ button

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

11. PLAY ► button*

- Press to start playback or resume playback.

12. PAUSE || button

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

13. VOL + / - button

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

14. MUTE ✖ button

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

15. REW ◀◀ button

- During playback, press to fast reverse the playback.

16. Number buttons

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

17. SUBTITLE button

- Press to select subtitles on a disc.

18. REPEAT button

- Press to toggle between various repeat modes.

19. REPEAT A-B button

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

20. AUDIO button

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

21. FFW ►► button

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

22. TV CH + / - buttons

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

23. STOP ■ button

- Press to stop playback.

24. NEXT ►| button

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

25. DISC MENU/POP-UP MENU button

- BD:** Press to display the pop-up menu.

- DVD:** Press to display the disc menu.

26. INFO button

- Press to display the information display.

27. TOP MENU button

- BD:** Press to display the top menu.

- DVD:** Press to display the title menu.

28. ANGLE button

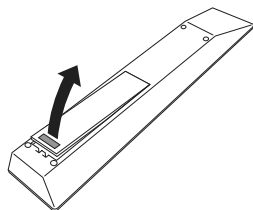
- Press to select camera angles on a disc.
- Press to rotate a picture (JPEG).

FUNCTIONAL OVERVIEW

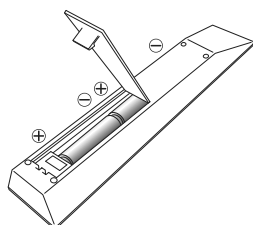
Installing the Batteries in the Remote Control

Install the batteries (AAx2) matching the polarity indicated inside battery compartment of the remote control.

1) Open the cover.

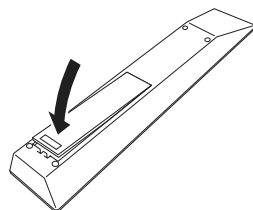


2) Insert batteries.



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

3) Close the cover.



Note

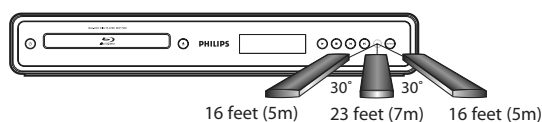
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that the + and - ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

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. 23 feet (7m)
 - **Either side of the center:**
 - approx. 16 feet (5m) within 30°
 - **Above:** approx. 16 feet (5m) within 15°
 - **Below:** approx. 10 feet (3m) within 30°



Introduction

Connections

Basic Setup

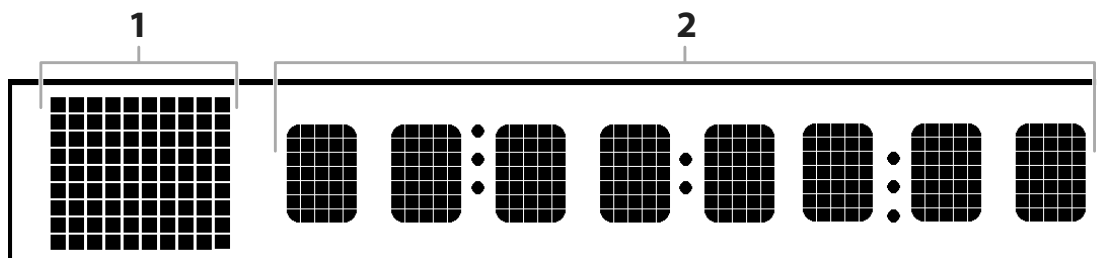
Playback

Function Setup

Others

FUNCTIONAL OVERVIEW

Front Panel Display



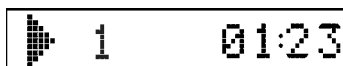
* Brightness of the display can be adjusted. Refer to "Front Panel Brightness" in "LIST OF SETTINGS" on page 33.

1. Displays playback status icon. Refer to the table below.

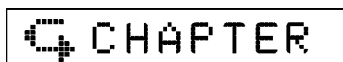
2. Displays various kinds of information such as title number, elapsed playing time, repeat type, menu type, etc.

Playback Status Icon	Mode
	Loading a disc
	Playback is in progress
	Stop mode
	Pause mode
	Fast forward mode
	Fast reverse mode
	Slow forward mode
	Appears while repeat function is set
	Appears while displaying the home menu

e.g.;



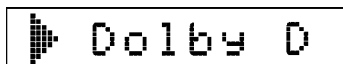
Title is being played back.
Indicating the current title number and the elapsed playing time.



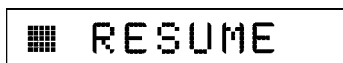
Current chapter is in chapter repeat mode.



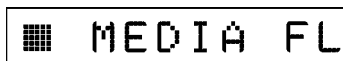
Loading a disc



Dolby Digital audio is being output.



Playback is in Resume-On-Stop mode.



Appears while displaying the media filter screen.

FUNCTIONAL OVERVIEW

Guide to On-Screen Display

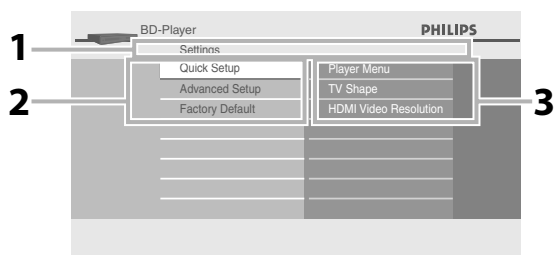
Home Menu

When you turn on the unit, home menu will appear 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

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.

Introduction

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Basic Setup

Playback

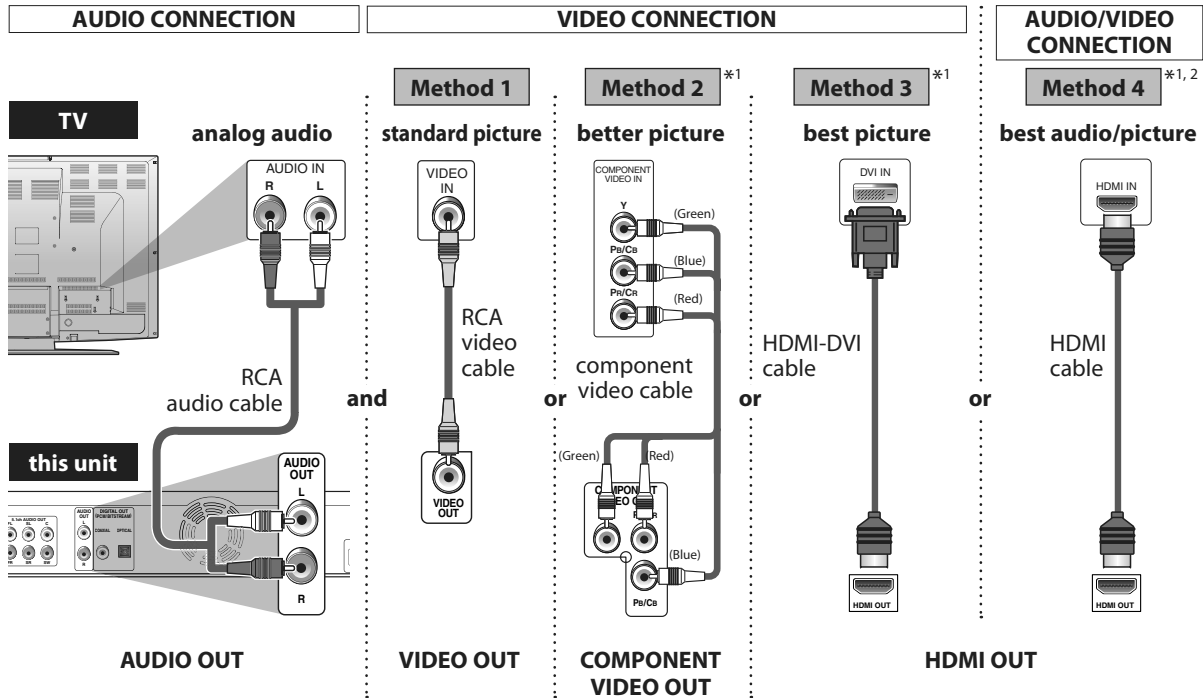
Function Setup

Others

CONNECTIONS

Connection to the TV

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



*1) This unit is compatible with the progressive scan system. The feature provides you with the higher quality pictures than traditional output system does. To utilize this feature, a component or an HDMI connection is required. Refer to the "HDMI Video Resolution" on page 31 or "Component Output" on page 31 to set the resolution.

*2) Analog audio connection is not required for this connection.

Supplied cables used in this connection are as follows:

- RCA audio cable (L/R) x 1
- RCA video cable x 1

Please purchase the rest of the necessary cables at your local store.

Note for HDMI 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) jack allows digital transfer of the digital pictures of BD-video, DVD-video and other devices.

CONNECTIONS

HDMI Mode and Actual Output Signals

Press **[OUTPUT]** on the front panel to change the resolution of the video signal being output from the HDMI OUT. The video resolution changes as follows every time **[OUTPUT]** is pressed. Or change the setting in the "HDMI Video Resolution" in the settings menu.

Front Panel Display	HDMI Video Resolution
480 . P	480 Progressive
Press [OUTPUT]	
720 . P	720 Progressive
Press [OUTPUT]	
1080 . i	1080 interlaced
Press [OUTPUT]	
1080 . P	1080 Progressive
Press [OUTPUT]	

Copyright protection system

To play back the digital video images of a BD-video 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). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or AV receiver / amplifier) for more information.

* HDMI: High Definition Multimedia Interface

Note

- When using HDCP-incompatible display device, the picture will not be viewed properly.
- The audio signals from the HDMI jack (including the sampling frequency, the number of channels and bit length) maybe limited by the device that is connected.
- Among the display device(s) that support HDMI, some do not support audio output (for example, projectors). In connections with device such as this unit, audio signals are not output from the HDMI output jack.
- When this unit's HDMI jack is connected to a DVI-D compatible display device(s) (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.
- Pressing **[OUTPUT]** does not work when HDMI cable is not connected, or when no video signal is being output from the HDMI OUT jack.
- Pressing **[OUTPUT]** does not work during the playback of a BD-video or while displaying the settings menu.
- When you make a selection, the TV monitor temporarily goes blank and then comes back again. If it does not, press **[OUTPUT]** repeatedly to change the resolution or press and hold **[▶ (PLAY)]** on the front panel for 5 seconds to change the setting back to its default.

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Basic Setup

Playback

Function Setup

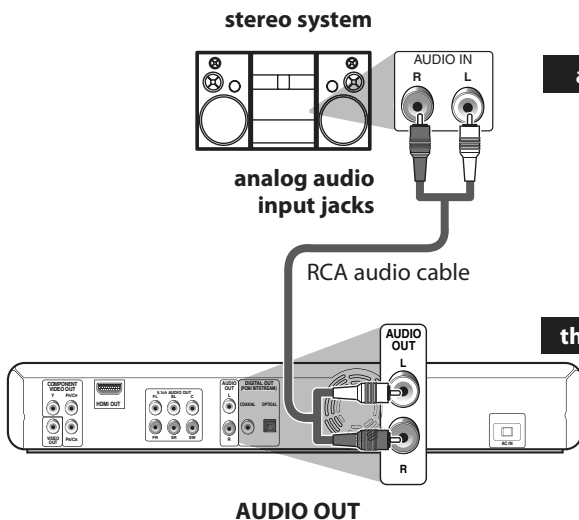
Others

CONNECTIONS

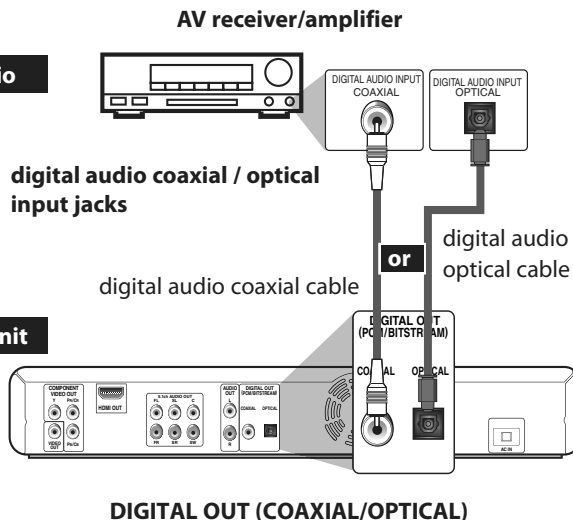
Connection to an Audio System

- When you change the connections, all devices should be turned off.
- Refer to the manual accompanying external devices for more information.

2 Channel Analog Audio Connection

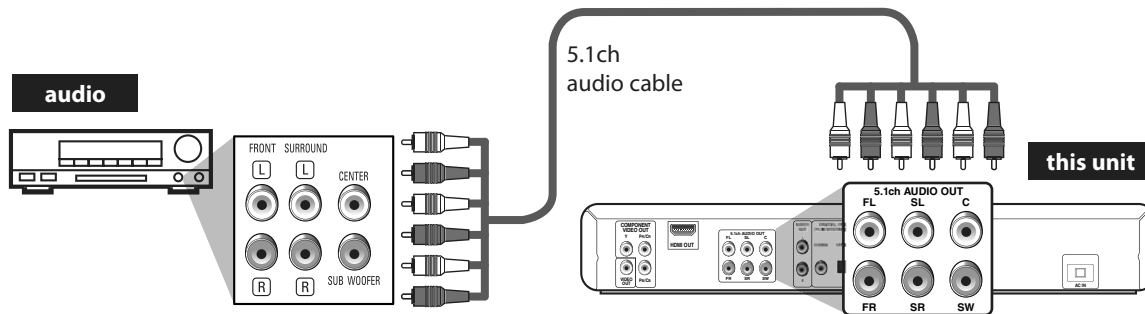


Digital Audio Connection



Multi-Channel Analog Audio Connection

AV receiver / amplifier with multi-channel audio input jacks.



To set up the speakers, refer to "Analog Audio" on page 33.

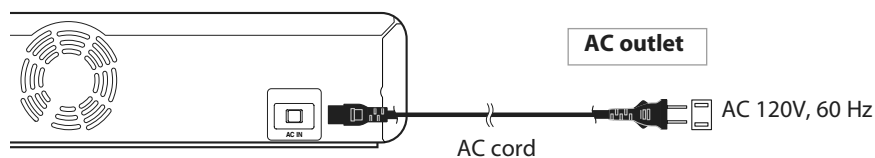
Supplied cables used in this connection are as follows:

- RCA audio cable (L/R) x 1
- Please purchase the rest of the necessary cables at your local store.

Connecting the AC cord

After you made all necessary connections, connect the AC cord to the AC IN. Then connect the AC cord to the AC outlet.

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



Supplied cables used in this connection are as follows:


- AC cord x 1

BEFORE YOU START

After you have completed all the connections, you must find the viewing channel (external input channel) on your TV.

Finding the Viewing Channel on Your TV



1 After you have made all the necessary connections, press [] to turn on the unit.

2 Turn on your TV.

3 Press "2" on the TV's remote control, then press channel down button repeatedly until you see the PHILIPS splash screen.



This is the correct viewing channel (external input channel).

- For some TVs, there may be a button on the TV's remote control that accesses the external input channel. It may be labeled "**SOURCE**", "**AV**", or "**SELECT**". Refer to your TV's user manual for details.
- If a certain amount of time has past since you turned on the unit, you may see the home menu instead of the PHILIPS splash screen.

Home menu:



Introduction

Connections

Basic Setup

Playback

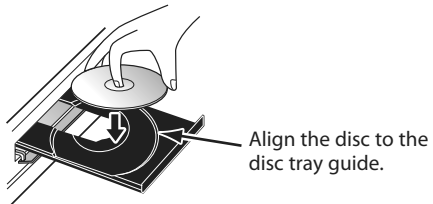
Function Setup

Others

BEFORE YOU START

How to Insert a Disc

- 1) Press [OPEN/CLOSE ▲] to open the disc tray.
- 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 page 19 for the list of compatible discs.)

- 3) Press [OPEN/CLOSE ▲] to close the disc tray.

It may take a while to load the disc.

To eject the disc:

Press [OPEN/CLOSE ▲] to open the disc tray.

Remove the disc.

Press [OPEN/CLOSE ▲] to close the disc tray.

INFORMATION ON PLAYBACK

Before you start playing back a disc, read the following information.

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 color systems as described below. You can play back discs that have the following logos. Other disc types are not guaranteed to play back.

Playable discs	Logos
BD-video(Single/Double layer) BD-RE ver.2(Single/Double layer) BD-R(Single/Double layer)	
DVD-video	
DVD+RW(Single layer)	
DVD+R(Single/Double layer)	 
DVD-RW(Single layer) (Finalized video mode discs only)	
DVD-R(Single/Double layer) (Finalized video mode discs only)	
CD-DA (audio CD)	
CD-RW	 
CD-R	 
DTS-CD	

Playable discs	Logos
DivX®	
MP3	CD-RW/-R DVD+RW/+R DVD-RW/-R
Windows Media™ Audio	
JPEG	

- Official DivX® Certified product; Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.
- Discs containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.
- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Unplayable Discs

The following discs will not play back on this unit.

- CD-ROM
- Compact Disc-Interactive (CD-I)
- DVD-RAM
- Video Single Disc (VSD)
- BD-RE (ver.1/ ver.3)
- DVD-audio
- HD DVD
- Video CD
- Unfinalized disc
- SVCD
- DVD-R or DVD-RW recorded in VR mode or non compatible recording format.
- Super audio CD - Only the sound on the CD layer can be heard. The sound on the high-density super audio CD layer cannot be heard.
- Playability of dual discs are not guaranteed.

Color Systems

BD-video and DVD-video are recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada).

This unit employs NTSC color system, so the disc you play back must be recorded in the NTSC system. You cannot play back the disc recorded in other color systems.

Region Codes

This unit has been designed to play back BD-video with region A and DVD-video with region "1" or "ALL". You cannot play back BD-video or DVD-video that are labeled 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. A BD-video or DVD-video labeled for a specific region can only play back on the unit with the same region code.

BD-video



DVD-video



Introduction

Connections

Basic Setup

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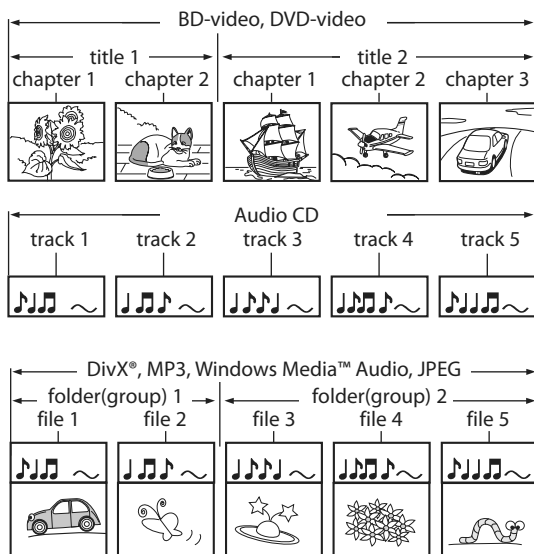
Function Setup

Others

INFORMATION ON PLAYBACK

Hint for Disc Playback

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



Description for Icons

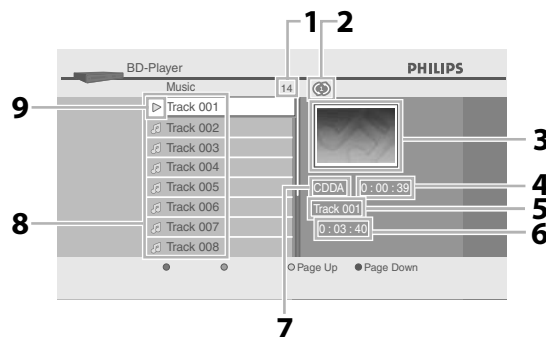
- [Folder Icon] : group(folder) icon
- [Folder Icon with Arrow] : group(folder) return icon
- [Music Note Icon] : Music file icon
- [Video Camera Icon] : Video file icon
- "Folders" refers to the groups of files.
- "Tracks" refers to the contents recorded on the audio CD.
- "Files" refers to the contents on a disc which are recorded in DivX®, MP3, Windows Media™ Audio, or JPEG file format.

Note

- Unrecognizable characters will be replaced by 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

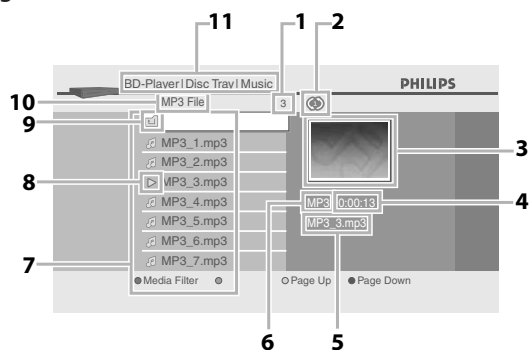


- 1) Total track number
- 2) Repeat status
- 3) Image
- 4) Elapsed playing time of the current track
- 5) Playing track number
- 6) Total time of the current track
- 7) Playing media
- 8) Track list
- 9) Playback status

INFORMATION ON PLAYBACK

Video/Music Mode File List

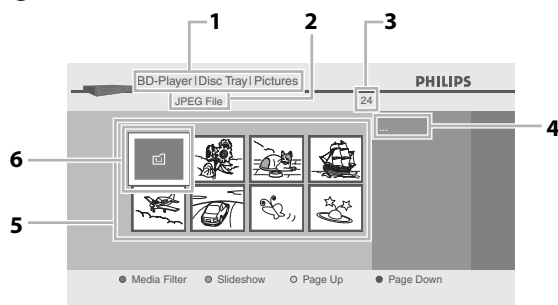
e.g., MP3 mode



- 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
- 9) Root folder
- 10) Group(folder) name
- 11) Directory

Picture Mode File List

e.g., JPEG mode



- 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

Introduction

Connections

Basic Setup

Playback

Function Setup

Others

BASIC PLAYBACK

Playing Back a BD or a DVD



1 Insert a disc (refer to page 18 on how to insert a disc).

2 Playback may start automatically.
If not, press **[PLAY ►]**.
Some discs may show a title or a disc menu. In such case, refer to “Using the Title / Disc Menu” on page 25.

To pause playback:

Press **[PAUSE II]**.

To return to the normal playback:

Press **[PLAY ►]**.

To stop playback:

Press **[STOP ■]**.

Playback will be in Resume-On-Stop mode, and the home menu will appear.

<Resume-On-Stop mode>

When you press **[PLAY ►]** next time, the playback will start from the point where it has been stopped.

Note

- Playback will also stop and the home menu will appear when you press **[HOME]**.
- 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 **[PREV ◀]** 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.

BASIC PLAYBACK

Playing Back an Audio CD or a Disc with DivX®/MP3/Windows Media™ Audio/JPEG Files



<JPEG>

Resolution

- Upper limit : 2,560 x 1,900 dots (sub sampling is 4:4:4)
: 5,120 x 3,840 dots (sub sampling is up to 4:2:2)
- Lower limit : 32 x 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.

1 Insert a disc.

Audio CD:

Track list appears and playback starts automatically. Proceed to step 4.

Disc with MP3/Windows Media™ Audio/JPEG/ DivX® files:

Home menu appears.

2 With "Disc Tray" selected, press [OK]. Media filter screen will appear.



How to Navigate through the Track/File List

- Use [▲ / ▼] to move the highlight up and down in the list.
- To access the files in a group(folder), highlight the desired group(folder), then press [OK].
- Press [◀], or highlight [◀], then press [OK] to go back to the previous hierarchy.
- Press [◀] to go back to the previous screen.
- Press [Yellow] or [Blue] to change the page of the list.
- Press [Red] to go back to the media filter screen.
- Press [HOME] to go back to the home menu.

Recommended specifications:

<DivX®>

Official DivX® Certified product

- Playable codec of AVI files : DivX®3.x, DivX®4.x, DivX®5.x, DivX®6.0
- Maximum size of a video : 720 x 480 @30 fps
: 720 x 576 @25 fps
- Sampling frequency of audio : 8 kHz - 48 kHz
- Audio type : MPEG1 audio layer 3(MP3), MPEG1 audio layer 2, Dolby Digital

<MP3 / Windows Media™ Audio>

- Sampling frequency : 32 kHz, 44.1 kHz or 48 kHz.
- Constant bit rate : 112 kbps - 320 kbps(MP3), 48 kbps - 192 kbps (Windows Media™ Audio).

Introduction

Connections

Basic Setup

Playback

Function Setup

Others

BASIC PLAYBACK

3 Select the type of the file you want to play back in the media filter screen. Then press [OK] to display the file list.

"Video" : if you want to play back video files such as DivX® video files, select "Video".

"Music" : if you want to play back music files such as MP3 or Window Media™ Audio, select "Music".

"Pictures" : if you want to play back the still images such as JPEG pictures, select "Pictures".



4 Select a group(folder) or Track/file you want to play back. Then press [PLAY ►] or [OK] to start playback.

(Refer to "How to Navigate through the Track/File List" on page 23.)

To pause playback:

Press [PAUSE II].

To return to the normal playback:

Press [PLAY ►].

To stop playback:

Press [STOP ■].

Playback will be in Resume-On-Stop mode.

<Resume-On-Stop mode for **Audio CD/DivX®**>

Playback will start from the point where it is stopped next time you press [PLAY ►].

<Resume-On-Stop mode for **MP3/Windows Media™ Audio/JPEG**>

Playback will start from the file being played back last next time you press [PLAY ►].

To go back to the media filter screen :

Press [Red].

Note

- Playback will also stop and the home menu will appear when you press [HOME].
- If you press [OK] instead of [PLAY ►], playback can start from the beginning instead of resuming from the stop point.

About DivX® and DivX® VOD

DivX

Hint for the purchased or rented official DivX® Certified product

- When you purchase or rent a DivX® file through the official site of DivX® video which is called DivX® Video-On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX® VOD services. Refer to "DivX® VOD" in "LIST OF SETTINGS" on page 33.

Possible Errors

"This rental has ☐ views left. Do you want to use one of your ☐ views now?"

Some DivX® VOD files are restricted with the limited playable times. You cannot play them back beyond the limit.

"This player is not authorized to play this video."

You cannot play back the DivX® VOD files obtained with different registration codes on this unit.

"This rental is expired."

You cannot play back the DivX® VOD files with the expired rental period.

"This player does not support this video format."

You cannot playback the DivX® files whose image size exceeds 720 x 480 @ 30fps or 720 x 576 @ 25fps.

Note for DivX®

- A file with an extension of ".avi" and ".DivX" is called an DivX® file. All files with the ".avi" extension are recognized as MPEG4.
- For CD-RW/-R, maximum of 999 group(folder) or 999 files may be recognized.
- For DVD+RW/+R and DVD-RW/-R, maximum of 999 group(folder) or 9,999 files may be recognized.
- The 10th and deeper hierarchies cannot be displayed.
- Unrecognizable characters will be replaced with "□".
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX® logo has been obtained for this unit, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- A DivX® file whose file size exceeds 2 GB cannot be played back.
- If a large-sized DivX® file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- If DivX® files written on a CD-RW/-R cannot be played back, rewrite them on a DVD+RW/+R or DVD-RW/-R and try to play back.
- Multi-session burn DivX® DVD cannot be played back on this unit.
- For more information for DivX®, please visit <http://www.divx.com>.

BASIC PLAYBACK

Playing Back a DivX® with DivX® External Subtitle

DivX®

Subtitles created by the user can be displayed during DivX® playback.

1) Follow steps 1 to 3 in “Playing Back an Audio CD or a Disc with DivX®/MP3 /Windows Media™ Audio/ JPEG Files” on page 23.

2) Highlight a file you want to play back, then press [Green].

Subtitle list will appear.



- “DivX® Subtitle” appears next to “Green” icon only when DivX® subtitle is available for the selected file.
- If you press **[PLAY ►]** or **[OK]** instead of **[Green]**, playback without subtitle will start.

3) Highlight the desired subtitle file, then press [PLAY ►] or [OK].

Playback of the DivX® file with DivX® subtitle will start.

Note

- To utilize this function, the following conditions must meet.
 - Playback file and the subtitle file must have the same name.
 - Playback file and the subtitle file must locate in the same folder.
 - Only the subtitle files with the following extensions are supported; .smi (.SMI), .srt (.SRT), .sub (.SUB), .ass (.ASS), .ssa (.SSA), .txt (.TXT). (.sub (.SUB) and .txt (.TXT) may not be recognized.)
 - The subtitles that exceeds the playback time of the DivX® file will not be displayed.
- If the DivX® subtitle file contains more than one subtitle language, you can toggle those by pressing **[SUBTITLE]** repeatedly.

Using the Title / Disc Menu



Some BD-video or DVD-video may contain a title list 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 list 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.

Introduction

Connections

Basic Setup

Playback

Function Setup

Others

SPECIAL PLAYBACK

Fast Forward / Fast Reverse



1) During playback, press [FFW ►►] repeatedly for fast forward.

During playback, press [REW ◀◀] repeatedly for fast reverse.

Every time you press [FFW ►►] or [REW ◀◀], the playback speed will change.

2) Press [PLAY ►] to return to the normal playback.

Note

- The playback speeds are approximate.
- For some DivX® files, fast forward/fast reverse may not function.

Slow Forward Playback



1) During playback, press [PAUSE ||]. Then press [FFW ►►].

Every time you press [FFW ►►], approximate speed will change as follows.

x1/16 → x1/8 → x1/2 (mute)

2) Press [PLAY ►] to return to the normal playback.

Note

- The playback speeds are approximate.
- Only slow forward is available.
- For some DivX® files, slow forward may not function.

Step by Step Playback



1) While in pause mode, press [PAUSE ||] repeatedly.

Every time you press [PAUSE ||], playback will advance one step at a time.

2) Press [PLAY ►] to return to the normal playback.

Note

- Only step by step forward is available.

Zoom

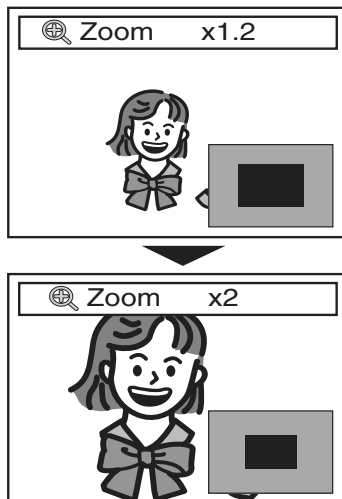


During playback, you can zoom up the picture.

1) During playback, press [ZOOM] repeatedly.

Every time you press [ZOOM], Zoom factor will change.

Example:



2) 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 some DivX® files, zoom may not be available.
- For DivX® and JPEG 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.

SPECIAL PLAYBACK

Repeat Playback



Available repeat function vary depending the discs.

1) During playback, press [REPEAT] repeatedly to select the desired repeat function.

REPEAT MODE	AVAILABLE MEDIA
Chapter Repeat The current chapter will be played back repeatedly.	BD-video/DVD-video
Title Repeat The current title will be played back repeatedly.	
Track Repeat The current track or file will be played back repeatedly.	Audio CD/DTS CD/DivX®/MP3/Windows Media™ Audio
All Repeat All tracks in the media will be played back repeatedly.	Audio CD/DTS CD
Group Repeat The current group(folder) will be played back repeatedly.	
Random Repeat (Audio CD) Repeats the random playback.	MP3/Windows Media™ Audio
Random Repeat (MP3/Windows Media™ Audio) Repeats the random playback in a folder.	

Note

- The repeat setting will be canceled when you stop playback.

A-B Repeat



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.

2) 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 will start to play repeatedly.

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.
- For some DivX® files, A-B repeat playback may not function.

Slide Show

JPEG

1) Follow steps 1 to 3 in "Playing Back an Audio CD and a Disc with DivX®/MP3/Windows Media™ Audio/JPEG Files" on page 23.

2) Open the folder which contains the desired JPEG files.

3) Highlight a file, then press [Green].

Slide show will start from the file you selected.

To skip to the next file:

Press [NEXT ►].

To skip to the previous file:

Press [PREV ◀].

To stop the slide show:

Press [STOP ■] for Resume-On-Stop.

To resume the slide show:

Press [Green].

To resume the normal playback:

Press [PLAY ►] or [OK] while in the thumbnail screen.

To rotate the picture:

Press [ANGLE] repeatedly.

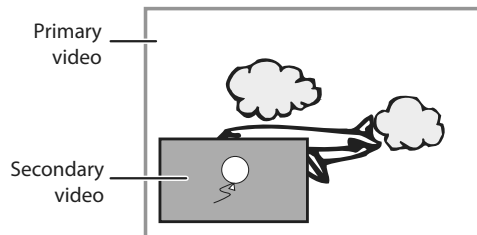
Note

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

PiP(Picture in Picture) Setting



Some BD-videos have the PiP (picture-in-picture) 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.



1) During playback press [PiP].

PiP information will appear.

2) Use [▲ / ▼] to select the secondary video you want to show.

3) Press [BACK ◀] to remove the PiP information.

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SEARCH

Title/Chapter Search



Using [PREV ◀] / [NEXT ▶]

- 1) During playback, press [NEXT ▶] to skip the current title or chapter and move to the next.

The title or chapter will move forward by one at a time.

- If there is no chapter in one title, the current title may be skipped.

To go back to the beginning of the current title or chapter, press [PREV ◀].

Press [PREV ◀] repeatedly to go to the previous title or chapter. The title or chapter may move backward one at a time.

Using [INFO]

- 1) During playback, press [INFO].

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

- 2) Use [▲ / ▼] to Select "Title" or "Chapter".

- 3) Use [the Number buttons] or [◀ / ▶] to enter the title/chapter number.

- 4) Press [OK].

Playback will start from the beginning of the title/ chapter.

- 5) Press [INFO] to remove the information display.

Using [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 will start 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 will start in a few seconds.

Time Search



- 1) During playback, press [INFO].

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

- 2) Use [▲ / ▼] to Select "Playing Time".

- 3) Use [the Number buttons] to enter the time count you want to jump to.

e.g.;

Entering 1 hour 45 minutes and 15 seconds.

Press

- 4) Press [OK].

Playback will start from the desired time count.

- 5) Press [INFO] to remove the information display.

Note

- For some DivX® files, time search may not function.

SELECTING THE FORMAT OF AUDIO AND VIDEO

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

Switching Subtitles

Some video materials 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.



1) During playback, press [SUBTITLE] to bring up the subtitle information.

2) Use [◀/▶] to select "Primary", "Secondary" or "Subtitle Style".

"Primary": sets the subtitle for the primary video.

"Secondary": sets the subtitle for the secondary video in the primary video.

"Subtitle Style": sets the style for the subtitle.

Primary English

3) Use [▲/▼] or [SUBTITLE] repeatedly to switch the subtitle language or style.



DivX

1) During playback, press [SUBTITLE] to bring up the subtitle information.

2) Use [▲/▼] or [SUBTITLE] repeatedly to switch the subtitle.

Note

- For DivX® external subtitle, refer to "Playing Back a DivX® with DivX® External Subtitle" on page 25.

Switching Audio Soundtrack

When playing back a video material recorded with 2 or more soundtracks (these are often in different languages), you can switch them during playback.



1) During playback press [AUDIO] to bring up the information bar.

2) Use [◀/▶] to select "Primary" or "Secondary".

"Primary": sets the audio for the primary video.

"Secondary": sets the audio for the secondary video in the primary video.

Primary English Dolby Digital 2ch

3) Use [▲/▼] or [AUDIO] repeatedly to switch the audio soundtrack or audio channel.



DivX

1) During playback press [AUDIO] to bring up the information.

2) Use [▲/▼] or [AUDIO] repeatedly to switch the audio soundtrack or audio channel.

Switching 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.

1) During playback press [ANGLE] to bring up the camera angle information bar.

2) Use [▲/▼] or [ANGLE] repeatedly to switch the angle.

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LIST OF SETTINGS

In the settings menu, you can customize 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) Use [▲ / ▼] to highlight the “Settings”, then press [OK].

3) Use [▲ / ▼] to highlight the “Advanced Setup”, then press [OK].

4) Use [▲ / ▼] 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.

5) To make a selection or to access the sub menus/option 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 customize.

Settings with (*) can be accessed from the “Quick Setup” also.




The item highlighted in gray is the default setting.

Category	Menus	Options/Sub-Menus	Description
Advanced Setup	Language	<div>Audio</div> <div>BD VIDEO DVD VIDEO</div> <div>Default</div> <div>Čeština Norsk</div> <div>Dansk Polski</div> <div>Deutsch Português</div> <div>English Русский</div> <div>Español Suomi</div> <div>Ελληνικά Svenska</div> <div>Français Türkçe</div> <div>Italiano</div> <div>Magyar</div> <div>Nederlands</div>	Set the audio language for BD-video or DVD-video playback. • If you select “Default”, the disc’s original language will be in effect.
	Subtitle	<div>BD VIDEO DVD VIDEO</div> <div>Off</div> <div>Čeština Norsk</div> <div>Dansk Polski</div> <div>Deutsch Português</div> <div>English Русский</div> <div>Español Suomi</div> <div>Ελληνικά Svenska</div> <div>Français Türkçe</div> <div>Italiano</div> <div>Magyar</div> <div>Nederlands</div>	Set the subtitle language for BD-video or DVD-video playback. • You can also output the test tone from each speaker by pressing [Red].
	Disc Menu	<div>BD VIDEO DVD VIDEO</div> <div>Čeština Norsk</div> <div>Dansk Polski</div> <div>Deutsch Português</div> <div>English Русский</div> <div>Español Suomi</div> <div>Ελληνικά Svenska</div> <div>Français Türkçe</div> <div>Italiano</div> <div>Magyar</div> <div>Nederlands</div>	Set the language for disc menu.
	Player Menu*	<div>English</div> <div>Español</div> <div>Français</div>	Set the language for player menu (OSD menu).
	Video Output	<div>TV Shape*</div> <div>• Refer to page 35 for more information.</div> <div>4:3 Letter Box</div> <div>4:3 Pan & Scan</div> <div>16:9 Widescreen</div> <div>16:9 Squeeze</div>	Set the aspect ratio of the playback image to fit your TV.

LIST OF SETTINGS

Category	Menus	Options/Sub-Menus		Description
Video Output	HDMI 1080p/fps  • This feature is available only when the display device is connected by an HDMI cable.	Auto Off		"Auto": Output the picture in 1080/24p when it meets all the conditions listed below: • The video resolution and the frame rate of the material is 1080/24p (1080 progressive with 24 frames per second). • "HDMI Video Resolution" setting is set to "1080p". • The display device supports the 24p (24 frames per second, progressive) output. "Off": Output the picture in 60p. (60 frames per second, progressive)
	HDMI Video Resolution* • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 35 for more information.	Auto 480p 720p 1080i 1080p		Set the resolution of the video signal being output from the HDMI OUT. • The selected resolution must also be supported by your TV monitor.
	HDMI Deep Color • This feature is available only when the display device is connected by an HDMI cable, and when it supports deep color feature.	Auto Off		Deep color reduces the posterization effect of the playback picture. "Auto": Reduces the posterization effect by automatically outputting the 10 bit color whenever the unit recognizes the connected display device supports deep color feature. "Off": Outputs the standard 8 bit color.
	Component Output	480i 480P 720P 1080i	With regard to the DVD-Video with a copy protection, the resolution will be set to 480p regardless of the setting here. If 480p output is not available, 480i will be output.	Set the resolution for the component output picture. • The selected resolution must also be supported 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" and the resolution selected in the "HDMI Video Resolution" will be available.
	De-interlacing Mode	Auto Video		"Auto": Automatically detects the film or the video content, and appropriately converts it. "Video": Select when the picture is distorted when using "Auto".
	Black Level	On Off		Black level enhances the blackness of the black part of the playback picture.

LISTA DE CONFIGURACIONES

Categoría	Menús	Opciones/Sumenús	Descripción
Configuración avanzada	Salida de video	Reducción de ruido • No está disponible para BD-vídeo.	Apdo. MPEG NR 3D NR Combo (3D + MPEG)
			La reducción de ruido reduce el ruido de la imagen de reproducción. "Apdo.": Reducción de ruido desactivada "MPEG NR": Reduce el ruido de bloque que se ve de manera característica en los archivos MPEG. "3D NR": Reduce el ruido rudo de fondo para que puede tener un sentido de mayor profundidad. "Combo (3D + MPEG)": Activar tanto "MPEG NR" como "3D NR".
	Audio	Modo nocturno	Enc. Apdo.
		Sub Muestreo	Enc. Apdo.
			EL modo noche comprime el rango entre los sonidos suaves y los altos.
		Virtual Surround  	Enc. Apdo.
			Configura la velocidad de muestreo para dar como salida el sonido de PCM desde la salida digital (coaxial/óptica). "Enc.": El sonido 96 kHz PCM se muestrea con reducción a 48 kHz. "Apdo.": El sonido PCM se da como salida como es sin muestreo de reducción.
		Audio disco Blu-ray 	Salid audio comb Sólo audio princip
			"Salid audio comb": El sonido de la imagen secundaria y la aplicación interactiva se darán como salida juntos con el sonido de la imagen principal. "Sólo audio princip": Solamente se da como salida el sonido de la vídeo principal. Al reproducir BD-vídeos que contenga sólo el sonido principal, la salida de sonido será la misma que en el caso de "Sólo audio princip" incluso si el "Audio disco Blu-ray" está configurado a "Salid audio comb".
	Audio HDMI • Esta función sólo está disponible cuando el dispositivo de visualización está conectado a través de un cable HDMI. • Consulte en la página 36 para mayor información.	HDMI normal PCM Apdo.	Configure el formato de sonido de la salida de sonido desde salida HDMI OUT.
		Salida digital • Cuando esté conectado el cable HDMI, compruebe que "configuración Audio HDMI" está configurado a "Apdo." para cambiar la configuración "Salida digital". • Consulte en la página 37 para mayor información.	Flujo de bits PCM
			Configure el formato de sonido de la salida de sonido desde DIGITAL OUT (COAXIAL / OPTICAL).

Advanced Setup

Category	Menus	Options/Sub-Menus				Description
Audio	Analog Audio • When HDMI cable is connected, make sure "HDMI Audio" setting is set to "Off" to change the "Analog Audio" setting.	Speaker Setup • Refer to page 38 for more information.	Front (L/R)	Large/Small		Set the speaker configuration to suite the size/number of your speakers. • You can also output the test tone from each speaker by pressing [Red] .
			Center	Large/Small/Off		
			Surround (L/R)	Large/Small/Off		
			Subwoofer	On/Off		
		Speaker Distance	Unit	Feet		Set the desired measure system. This measure system will be used for "Speaker Distance" setting
				Meters		
			Front (L/R)	0-60ft	default is 10ft	Select the distance from the listening point to the speaker to get the ideal delay time.
			Center	5-10ft	default is 10ft	
			Surround	0-10ft	default is 10ft	
			Default	Yes/No	default is "No"	
		Speaker Level	Front (L)	0-12dB	default is 0dB	Set the volume level for each speaker to get the ideal audio balance.
			Center			
			Front (R)			
Subwoofer						
Surround (R)						
Surround (L)						
Parental • Refer to page 38 for more information.	Rating Level	All 8[Adult] to 1[Kid Safe]				Set the rating level for the disc playback.
	New PIN					Set the new password for the parental setting.
Others	Auto Standby	On Off				Set whether to turn off the 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	Bright Dim Auto				Set the brightness of the front panel display. When "Auto" is selected, the front panel display automatically goes dim during playback.
	Screen Saver	On Off				Set whether to activate the screen saver after 5 minutes of no action on the unit.
	Slide Show Interval JPEG	5sec 10sec				Set the amount of time for displaying one picture before switching to the next one. For example, select "5sec" to switch the picture every 5 seconds.
	Slide Show Transition JPEG	Cut In/Out Fade In/Out				Set the visual effect for the slide show transition mode. "Cut In/Out": The pictures will cut in and out sharply as playback progresses. "Fade In/Out": The pictures will fade in and out as playback progresses.
	DivX® VOD DivX®	Your registration code is: ○○○○○○○○ To learn more visit www.divx.com/vod				This menu item provides you with the DivX® VOD registration code. The DivX® registration code is required when downloading the DivX® VOD files from the internet. To learn more about DivX® VOD, visit www.divx.com/vod.

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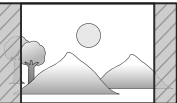
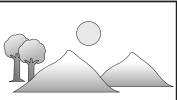
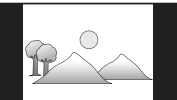
	Category	Menus	Options/Sub-Menus	Description
Advanced Setup	Others	EasyLink (HDMI CEC) • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 39 for more information.	On Off	Set whether to utilize the EasyLink (HDMI CEC) function. EasyLink (HDMI CEC) function allows your PHILIPS brand EasyLink TV to act in conjunction with this unit. This feature is available only when the TV monitor is connected by an HDMI cable, and when it supports EasyLink (HDMI CEC) feature.
	Settings	Yes No		"Yes": Reset all the settings, except for "Parental", in "Settings" to the factory default. "No": Do not perform the initialization.
Factory Default	Local Storage	Yes No		"Yes": Initialize (clean up) the area used for BD application. "No": Do not perform the Initialization.

SETUPS

TV Shape

HOME → "Settings" → "Advanced Setup" → "Video Output" → "TV Shape"

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. Descriptions of each setting are as follows:

Video source	Your TV	Option	Description
16:9	4:3	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	16:9 Widescreen 	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.
4:3	16:9	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.

HDMI Video Resolution

HOME → "Settings" → "Advanced Setup" → "Video Output" → "HDMI Video Resolution"

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

You can select the desired "HDMI Video Resolution" among the settings listed below:

"Auto"/"480p"/"720p"/"1080i"/"1080p"

- 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 Media:

Media	BD				
Setting in the "HDMI Video Resolution"	Source				
	480/60i	720/60p	1080/60i	720/24p	1080/24p
480p	480/60p	480/60p	480/60p	480/60p	480/60p
720p	720/60p	720/60p	720/60p	720/60p	720/60p
1080i	1080/60i	1080/60i	1080/60i	1080/60i	1080/60i
1080p	1080/60p	1080/60p	1080/60p	1080/60p	1080/24 or 60p (*)(**)
Auto	The highest resolution supported by your display device will be in effect automatically.				

Media	DVD	DivX®	Photo viewing	OSD-only viewing
Setting in the "HDMI Video Resolution"	Source			
	480/60i	60,30,other		
480p	480/60p	480/60p	480/60p	480/60p
720p	720/60p	720/60p	720/60p	720/60p
1080i	1080/60i	1080/60i	1080/60i	1080/60i
1080p	1080/60p	1080/60p	1080/60p	1080/60p
Auto	Determine the rightmost resolution supported by the display device automatically.			

- The frame rate and interlaced/progressive setting of the data on Blu-ray Disc is the framerate and interlaced/progressive setting of the primary video being played.
- If no video is being played it is whatever frame rate was set last by the BD middleware.
- The frame rate and resolution of the component output will follow that of the HDMI output, except when HDMI resolution is 1080p (in which case the component output will be at 480i).
- Output from the VIDEO OUT will be always at 480/60i, when supported.

(*) : 24 Hz is preferred, but if EDID shows that 24 Hz not supported, but 60 Hz is, then 60 Hz should be shown.

(**) : When frame rate is 24p, all analog output will be muted.

Note

- 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" 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).)
- Refer also to your TV's manual.

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SETUPS

HDMI Audio

HOME ➔ "Settings" ➔ "Advanced Setup" ➔ "Audio" ➔ "HDMI Audio"

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"	Regardless	Regardless
Media ↓	Audio Source ↓	Which audio format can be output depends on the compatibility of the connected device.			
BD-video	Dolby Digital	Dolby Digital or PCM or Mute	Dolby Digital or PCM or Mute	PCM or Mute	Mute
	Dolby Digital Plus	Dolby Digital Plus or Dolby Digital or PCM or Mute	Dolby Digital or PCM ^{*1} or Mute	PCM ^{*1} or Mute	Mute
	Dolby TrueHD	Dolby TrueHD or Dolby Digital or PCM or Mute	Dolby Digital or PCM ^{*2} or Mute	PCM ^{*2} or Mute	Mute
	DTS	DTS or PCM or Mute	Dolby Digital or PCM or Mute	PCM or Mute	Mute
	DTS-HD	DTS-HD or DTS or PCM or Mute	Dolby Digital or PCM ^{*3} or Mute	PCM ^{*3} or Mute	Mute
	LPCM	PCM or Mute	PCM or Mute	PCM or Mute	Mute
DVD-video	Dolby Digital	Dolby Digital, PCM or Mute		PCM or Mute	Mute
	DTS	DTS, PCM or Mute		PCM or Mute	Mute
	LPCM	PCM or Mute		PCM or Mute	Mute
DivX®	Dolby Digital	Dolby Digital, PCM or Mute		PCM or Mute	Mute
	MP3/MP2	2ch PCM or Mute		2ch PCM or Mute	Mute
Audio CD/ MP3/ Windows Media™ Audio	PCM	2ch PCM or Mute		2ch PCM or Mute	Mute
DTS-CD	DTS	DTS, PCM or Mute		PCM or Mute	Mute

*1) Only the independent substream is decoded.

*2) Only the Dolby Digital Substream is decoded.

*3) 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".

SETUPS

Digital Out

HOME ➡ "Settings" ➡ "Advanced Setup" ➡ "Audio" ➡ "Digital Out"

Refer to the table below to see which setting you should choose.

	"Digital Out" setting ➡	"Bitstream"		"PCM"
	"Blu-ray Disc Audio" setting ➡	"Primary Audio Only"	"Mix Audio Output"	Regardless
Media ↓	Audio Source ↓			
BD-video	Dolby Digital	Dolby Digital	Dolby Digital	DownMix PCM
	Dolby Digital Plus ¹⁾	Dolby Digital	Dolby Digital	DownMix PCM
	Dolby TrueHD ²⁾	Dolby Digital	Dolby Digital	DownMix PCM
	DTS	DTS	Dolby Digital	DownMix PCM
	DTS-HD	DTS	Dolby Digital	DownMix PCM
	LPCM	DownMix PCM	DownMix PCM	DownMix PCM
DVD-video	Dolby Digital	Dolby Digital		DownMix PCM
	DTS	DTS		DownMix PCM
	LPCM	DownMix PCM		DownMix PCM
DivX®	Dolby Digital	Dolby Digital		DownMix PCM
	MP3/MP2	2ch PCM		2ch PCM
Audio CD/MP3/Windows Media™ Audio	PCM	2ch PCM		2ch PCM
DTS-CD	DTS	DTS		DownMix PCM

¹⁾ Only the independent substream can be output.

²⁾ Only the Dolby Digital Substream can 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".

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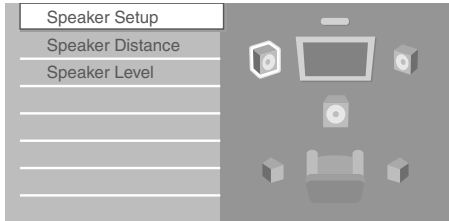
SETUPS

Speaker Setup

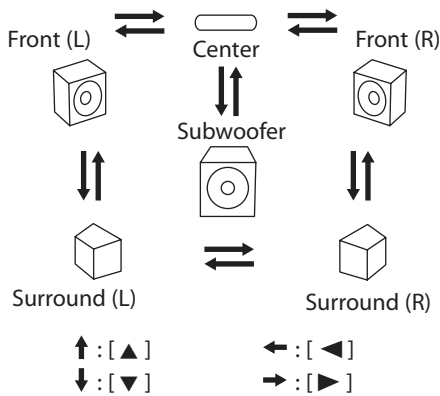
HOME → "Settings" → "Advanced Setup" → "Audio" → "Analog Audio" → "Speaker Setup"

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

1) Highlight the speaker you want to set in the illustration on the right.



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



2) Press [OK] repeatedly to change the setting.

	Setting				Suitable for
	Front (L/R)	Surround (L/R)	Center	sub woofer	
L A R G E					Large speakers with the capacity for powerful low frequency sound.
S M A L L					Small speakers which do not bare the powerful low frequency sound.*
O N					When subwoofer speaker is connected.
O F F					No speakers.

* With regard to the low frequency sound which is less than 100Hz, the sound will be output from the Subwoofer.

- 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.

Parental

HOME → "Settings" → "Advanced Setup" → "Parental"

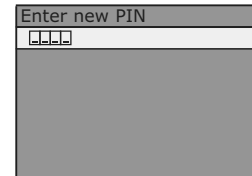
Some BD-video or DVD-video feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

1) With "Parental" selected in the "Advanced Setup" menu, press [OK].

Language	Rating level
Video Output	New PIN
Audio	
Parental	
Others	

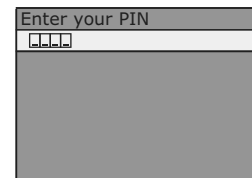
- 2) If a PIN code has not been set yet, proceed to step 2-a.
If a PIN code has already been set, proceed to step 2-b.
If you want to change the PIN code, proceed to step 2-c.
If you forget the PIN code, proceed to step 2-d.

2-a) Enter 4 digit PIN code using [the Number buttons], then press [OK].



- "4737" cannot be used.
- Press [Red] to return to the menu screen.

2-b) Enter 4 digit PIN code using [the Number buttons].



2-c) Follow step 2-b. Then enter the new PIN code. Press [OK] when finish entering.

2-d) Enter "4737", then press [OK]. Current PIN code is now cleared. Follow step 1. and step 2-a. to create a new PIN code.

SETUPS

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

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

	RATING EXPLANATIONS
All	• Parental Control is inactive; all discs can playback.
8 [Adult]	• DVD software of any grades (adult/general/children) can be played back.
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. With those discs, the message below will appear 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.

Select desired rating level then press [OK].

EasyLink (HDMI CEC)

HOME → "Settings" → "Advanced Setup" → "Others" → "EasyLink (HDMI CEC)"

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

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)] of this unit when the unit's power is on.

Standby

When you press and hold [⏻ (STANDBY-ON)] on the front panel for 2 seconds, it turns off the power of the TV first and then turns off the power of this unit also.

System Information

Get & Set Menu Language

This unit recognizes the OSD language set for the TV and automatically set the same language as the player menu language (OSD menu language) for this unit.

Reset to Factory Default

You can reset the settings to default.

- 1) Use [▲ / ▼] to highlight "Settings" in the home menu, then press [OK].
- 2) Use [▲ / ▼] to highlight "Factory Default", then press [OK].
- 3) Use [▲ / ▼] to highlight the desired setting, then press [OK].

"Settings":

All the settings except for the "Parental" setting will be reset to default.

"Local Storage":

Local storage used for BD-Java will be reformatted.

- 4) Press [OK] to go back to the settings menu, or press [HOME] to go back to the home menu.

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TROUBLESHOOTING

	Problem	Tip
POWER	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.
	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 audio / video signal on the display device via HDMI cable.	If the unit is connected to the unauthorized 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.
	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.
GENERAL	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".
	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. (BD: A: DVD: All or 1) For DVD+RW/+R or DVD-RW/-R, make sure that the disc is finalized. Clean the disc.
	Cannot play back JPEG files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format.
	Cannot play MP3 files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET 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.
	Cannot play back Windows Media™ Audio files from a disc.	Make sure that the sample rate of the Windows Media™ Audio files is 44.1kHz or 48kHz.
	Cannot play back DivX® files from a disc.	Make sure that the file extension is .avi, .AVI, .divx or .DIVX
	 in the upper right hand corner of the screen.	The operation is not possible.
	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 .wma or .WMA, .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.

GLOSSARY

Analog 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. See also "Digital Audio".

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, multi-channel 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. See also "Title".

Component Video Output

Each signal of luminance (Y) and component (P_B/C_B , P_R/C_R) is independent to output so that you can experience picture color as it is.

Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

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 analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

DivX®

DivX® is a codec (compression/decompression) that can compress pictures to a very small amount of data. The software can compress video data from almost any devices to the size that can be sent on the Internet without compromising visual quality of the pictures.

DTS (Digital Theater System):

DTS is a multi channel surround sound system. By connecting to DTS decoder, you can enjoy movie dynamic and realistic sound like movie theater. 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 multi-channel audio.

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. See also "Digital Audio".

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. See also "Chapter".

Track

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

General

System	BD-video, DVD-video, DVD+RW/+R, DVD-RW/-R, CD-DA, CD-RW/-R, DTS CD
Power requirements	120V AC, 60Hz
Power consumption	30W (standby: 0.8W)
Dimensions (width x height x depth)	17.2 x 2.8 x 13.8 inches (435 x 70 x 348mm)
Weight	9.1 lbs. (4.1kg)
Operating temperature	41°F (5°C) to 104°F (40°C)
Operating humidity	Less than 80% (no condensation)

Terminals

Rear	Audio output (Analog)			
	RCA jack x 2	L/R: 2Vrms (output impedance: more than 1kΩ)		
	RCA jack x 6	L/R/SL/SR/C: 2Vrms (output impedance: more than 1kΩ)		
		SW: 1.15Vrms (output impedance: more than 1kΩ)		
	Video output			
	RCA jack x 1	1Vp-p (75Ω)		
	Component video output			
	RCA jack x 3	Y: 1Vp-p (75Ω)	Pb/Cb: 700mVp-p (75Ω)	Pr/Cr: 700mVp-p (75Ω)
	Audio output (Digital)			
	RCA jack x 1	500mVp-p (75Ω)		
	Optical jack x 1	Digital connector		
HDMI output				
	HDMI jack x 1	Video: 480p, 720p, 1080i, 1080p/Audio		

Note

- The specifications and design of this product are subject to change without notice.

LIMITED WARRANTY

PHILIPS LIMITED WARRANTY ONE (1) YEAR

WARRANTY COVERAGE:

PHILIPS warranty obligation is limited to the terms set forth below.

WHO IS COVERED:

Philips warrants the product to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:

The Philips warranty covers new products if a defect in material or workmanship occurs and a valid claim is received by Philips within the Warranty Period. At its option, Philips will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in Philips current inventory, or (3) refund the original purchase price of the product. Philips warrants replacement products or parts provided under this warranty against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Philips' property. When a refund is given, your product becomes Philips' property.

Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS:

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Philips is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or any non-Philips product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-Philips product, (b) to damage caused by service performed by anyone other than Philips or Philips Authorized Service Location, (c) to a product or a part that has been modified without the written permission of

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This Limited Warranty does not cover:

- Shipping charges to return defective product to Philips.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna/signal source systems outside of the product.
- Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of Philips.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning product to Philips.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Philips Customer Care Center at:
1-888-PHILIPS (1-888-744-5477)

TO OBTAIN ASSISTANCE IN CANADA...

1-800-661-6162 (French Speaking)
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