



EN User Manual

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ES Manual de Usuario

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Interior de la Republica; **01 800 839 19 89**
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Guatemala; **1 800 835 0351**
El Salvador; **1 800 6141**
Honduras; **01 800 122 6276**

ES Para obtener más información, llame al servicio de soporte al cliente de su país.

- Para obtener asistencia, póngase en contacto con el CENTRO DE INFORMACION AL CLIENTE, México D.F. y Área Metropolitana; **58 87 97 36**
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1. INTRODUCTION

1.1. Safety Instruction

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. Register online at www.philips.com/welcome to ensure:



* Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

* Additional Benefits

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

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.		

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE 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.

The symbol for CLASS II (Double Insulation)

The important note and rating are located on the rear or bottom of the cabinet.

For Customer Use

Please write the model and serial number of your unit (located on the cabinet) in the space below for future reference.

Model No. _____
Serial No. _____

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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Disconnect the mains plug (the AC plug) to shut the Unit off when trouble is found or when not in use. The mains plug (the AC plug) shall remain readily available.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: Batteries (Battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

LASER SAFETY

This apparatus is classified as a CLASS 1 LASER PRODUCT.

This apparatus employs a laser. Only a qualified service person should remove the cover or attempt to service this apparatus, 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.

IMPORTANT COPYRIGHT INFORMATION

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Never use a gas duster on this Unit.
The gas trapped inside of this Unit may cause ignition and explosion.

Do not place the Unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling Unit can cause serious injury or even death.

This apparatus should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. Make sure to leave a space of 5.9 inches (15cm) or more around this apparatus.

To Avoid the Hazards of Electrical Shock and Fire

Do not handle the power cord with wet hands.

Do not pull on the power cord when disconnecting it from an AC outlet. Grasp it by the plug.

Do not put your fingers or objects into the Unit.

Location and Handling

Do not install the Unit in direct sunlight, near strong magnetic fields or in a place subject to dust or strong vibration.

Avoid a place with drastic temperature changes.

Install the Unit in a horizontal and stable position. Do not place anything directly on top or bottom of the Unit. Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the Unit is placed too close to them. In this case, please ensure enough space between the external devices and the Unit.

Depending on the environment, the temperature of this Unit may increase slightly. This is not a malfunction.

Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the Unit.

Dew Condensation Warning

Dew condensation may form inside the Unit in the following conditions. If so, do not use this Unit at least for a few hours until its inside gets dry.

- The Unit is moved from a cold place to a warm place.
- Under conditions of high humidity.
- After heating a cold room.

Notice

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. or their respective owners. P&F MEXICANA reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. P&F MEXICANA warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. P&F MEXICANA cannot be held responsible for any errors in the content of this document, or for any problems as a result of the content in this document. Errors reported to P&F MEXICANA will be adapted and published on the P&F MEXICANA support website as soon as possible.

Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by Service Centers and official repair shops. Failure to do so shall void any warranty, stated or implied. Any adjustments or assembly procedures not recommended or authorized in this manual, or any operation expressly prohibited in this manual shall void the warranty.

Important

Registering your model with Philips makes you eligible for all of the valuable benefits listed below, so don't miss out.

Register online at www.philips.com/support to ensure:

Product Safety Notification

By registering your product you receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

Additional Benefits of Product Ownership

Registering your product guarantees that you receive all of the privileges to which you're entitled, including special money-saving offers.

For further assistance

For further assistance, call the customer support service in your country.

To obtain assistance in the U.S.A., Canada, Puerto Rico, or the U.S. Virgin Islands, contact Philips Customer Care Center at 01-800-839-1989

From Mexico city, call 58 87 97 36, from other states in Mexico, call 01 800 839 1989

Environmental Care

The packaging of this product is intended to be recycled. Contact your local authorities for information about how to recycle the packaging. For Product recycling information, please visit - www.recycle.philips.com



Disposal of used batteries

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless, in many areas batteries may not be disposed of with your household waste. Please ensure you dispose of batteries according to local regulations.

1.2. Supplied Accessories

- Quick Start Guide
- Remote Control (NC270MH)
- Batteries (AAA, 1.5V x 2)

2. FEATURES

2.1. Features

Blu-ray Disc™

You can enjoy Blu-ray Disc™ which is capable of storing five times more data than a conventional DVD.

BD-Java

With some Blu-ray discs which contain Java applications, you can enjoy interactive functions such as games or interactive menus.

DVD upscaling for enhanced picture quality

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

Enjoy your content on different kinds of media

Full backwards compatibility with DVD, CD and USB Memory Stick ensures that you can continue to enjoy your current audio-video collection. Additionally, you can enjoy AVCHD (for DVD-RW/-R only) / JPEG files.

Listen to rich multi-channel surround sound

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

Easy and simple connection to your HDTV via HDMI

Connect this unit to your HDTV with one single HDMI (High-Definition Multimedia Interface) cable. It is recommended to use a High Speed HDMI cable for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get 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.

HDMI CEC(Consumer Electronics Control)

This unit supports HDMI CEC, which allows integrated system control over an HDMI cable and is part of the HDMI standard. This function may not work properly on some devices.

PiP (BONUSVIEW™)

Some BD-videos have the PiP function which enables you to display the Secondary Video in the Primary Video. You can call up the Secondary Video by pressing [OPTIONS] whenever the scene contains a Secondary Video.

Pop Menu

Some BD-videos have a Pop Menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting playback. You can call up the Pop Menu by pressing [DISC MENU]. Contents in the Pop Menu vary depending on the disc.

HDMI Deep Color

Deep Color reduces posterization (color banding) effect of the playback image.

HDMI 1080p/24 output (Blu-ray Disc™ only)

This unit is equipped with the feature which can provide smooth movement during playback of film originated material with the frame rate of 24 frames per second with progressive. (Available only when the display device is connected with an HDMI cable.) Refer to "HDMI Video Resolution" on page 37.

Playing back contents from a USB Memory Stick

You can play back JPEG files stored on a USB Memory Stick. BD-ROM discs sometimes store picture-in-picture commentary, subtitles or other extras on a USB Memory Stick for use during playback with the BD-video.

Playing back AVCHD files

This unit supports playback of AVCHD format files (new format for high definition video camcorders) recorded on a disc / SD Memory Card using USB card reader / USB hub (not supplied). Your high definition personal archive is playable in HD quality.

x.v.Color

This unit supports playback of video contents on discs recorded with "x.v.Color" technology. To watch this video content with the "x.v.Color" space, a TV or other display device supporting both video image reproduction using "x.v.Color" standard and capability of manual switching of its color space setting is required. Please refer to the user manual of your display device for further information.

2.2. Version Info

"Version Info" screen provides information about this unit's software version.






You can also download the latest software from the PHILIPS website and update it yourself if it is newer than the version currently on your unit. The current version of software on your unit can be seen on the "Version Info" screen.

To access "Version Info", follow the procedure below.

1. Press [**HOME**].
2. Use [**◀ / ▶**] to select "Setup", then press [**OK**].
3. Use [**▲ / ▼**] to select "Advanced Setup", then press [**OK**].
4. Use [**▲ / ▼**] to select "Version Info", then press [**OK**].

2.3. Symbols Used in this Owner's Manual

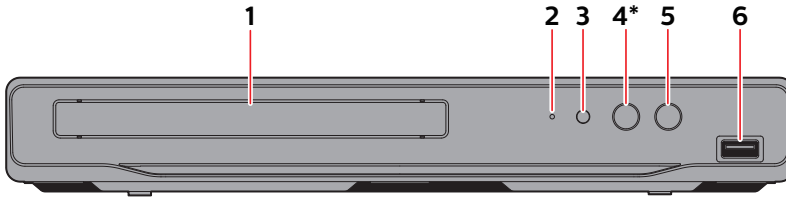
To specify which media type each function is applicable to, the following symbols that are at the beginning of each Symbol type.

Symbol	Description
	Description refers to BD-video
	Description refers to DVD-video
	Description refers to audio CD / DTS-CD
	Description refers to DVD-RW/-R with AVCHD files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and USB Memory Stick 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.

3. FUNCTIONAL OVERVIEW

3.1. Front Panel



* The unit can also be turned on by pressing this button.

- | | |
|---|----------------------------------|
| 1. Disc tray | 3. Infrared sensor window |
| 2. Power-On indicator <ul style="list-style-type: none">• Flashes while unit is starting up. | 4. ▲(OPEN/CLOSE) button* |
| | 5. ⏻(STANDBY/ON) button |
| | 6. USB Input |

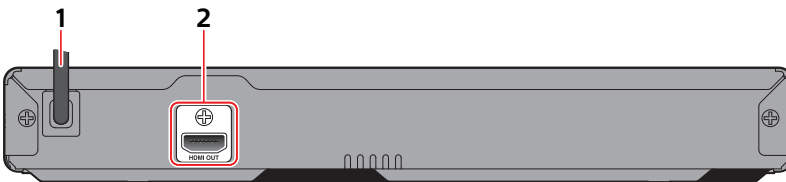
⚠ **Caution**

- Do not connect any device other than USB Memory Stick or USB card reader into the USB Input. (e.g. PC, external HDD, digital camera, keyboard, mouse, etc.)
- When connecting a USB Memory Stick, connect it directly to the USB Input. Do not use a USB extension cable.

📌 **Note**

- Due to new ENERGY STAR® requirements, this unit will automatically turn on the screen saver after 5 minutes of inactivity and enter standby mode after 25 minutes of inactivity.

3.2. Rear Panel



- | | |
|-------------------------|-------------------------|
| 1. AC power cord | 2. HDMI OUT jack |
|-------------------------|-------------------------|

⚠ **Caution**

- 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 a TV RF modulator.

3.3. Remote Control



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

1. **⏻ (STANDBY/ON) button**
 - Press to Turn On the unit, or to switch the unit into Standby mode. (To completely Turn Off the unit, you must unplug the AC power cord.)
2. **🏠 (HOME) button**
 - Press to display the Home Menu.
3. **DISC MENU button**
 - During Playback (Blu-ray Disc™ or DVD), press to select the Menu (Top Menu or Pop Menu/Menu).
4. **▲ / ▼ / ◀ / ▶ buttons**
 - Press to select items or settings.
5. **INFO button**
 - Press to Display the on-screen display menu.
6. **◀◀ (REVERSE) button**
 - During playback, press to Fast Reverse the playback.
7. **▶▶ (PLAY/PAUSE) button***
 - Press to start playback or resume playback.
 - Press to Pause playback.

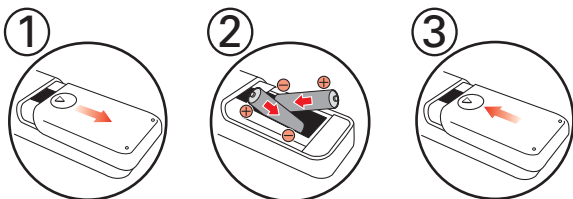
8. **⏮ (SKIP) button**
 - During playback, press once to return to the beginning of the current Title, Chapter, Track or File.
 - During playback, press twice to return to the previous Title, Chapter, Track or File.
 - During the JPEG playback, press to return to the previous File.
9. **■ (STOP) button**
 - Press to Stop playback.
10. **RED / GREEN / YELLOW / BLUE buttons**
 - Press to activate shortcut keys on some BD-video functions. When a file list is shown, press to switch between pages.
11. **OPTIONS button**
 - During playback, press to display the Play Menu.
12. **OK button**
 - Press to confirm or select menu items.
13. **BACK button**
 - Press to Return to the previously displayed menu or screen function.
14. **▶▶ (FORWARD) button**
 - During playback, press to Fast Forward the playback.
 - When playback is in pause, press to Slow Forward the playback.
15. **▶ (SKIP) button**
 - During playback, press to Skip to the next Chapter, Track or File.
 - When playback is in pause mode, press to Forward the playback picture by picture.
16. **▲ (OPEN/CLOSE) button***
 - Press to Open or Close the disc tray.

Note

- Use the supplied remote control. Remote-control operation on any other remote control, such as a universal remote control, is not guaranteed.

Installing the Batteries in the Remote Control

Install 2 AAA (1.5V) batteries matching the polarity indicated inside battery compartment of the remote control.



Caution

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

- Lithium or ni-cad and ni-mh rechargeable batteries are not recommended to use for remote control.
- Do not mix different types of batteries such as alkaline and standard (carbon-zinc).
- 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, when the remote is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

Using the Remote Control

Remote Control Usage Guidelines:

- 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 controls of different devices can interfere with each other. Avoid using a remote control from another device which is 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 (7 m)

- Either side of the center:

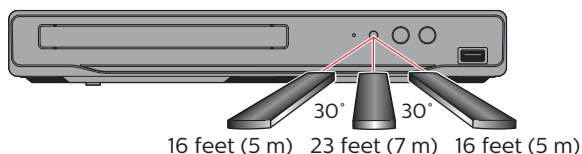
approx. 16 feet (5 m) within 30°

- Above:

approx. 16 feet (5 m) within 15°

- Below:

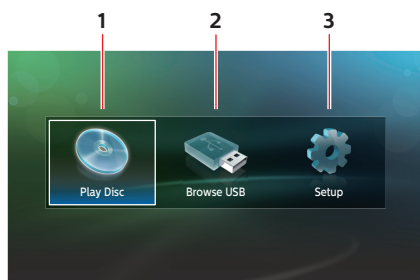
approx. 10 feet (3 m) within 30°



3.4. Guide to On-Screen Display

■ Home Menu

When you Turn On the unit, Home Menu will appear automatically. Otherwise, press [**HOME**].



1. "Play Disc": Initiates playback of inserted disc, displays a list of Tracks / Files or the Media Filter Menu
2. "Browse USB": Displays a list of Tracks / Files on the connected USB Memory Stick or the Media Filter Menu
3. "Setup": To access the Setup Menu

■ Setup Menu

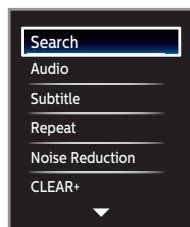


1. Category
2. Menus / Options: Displays options for the highlighted item on the left whenever available

■ Play Menu

During playback, press [**OPTIONS**] to display the Play Menu.

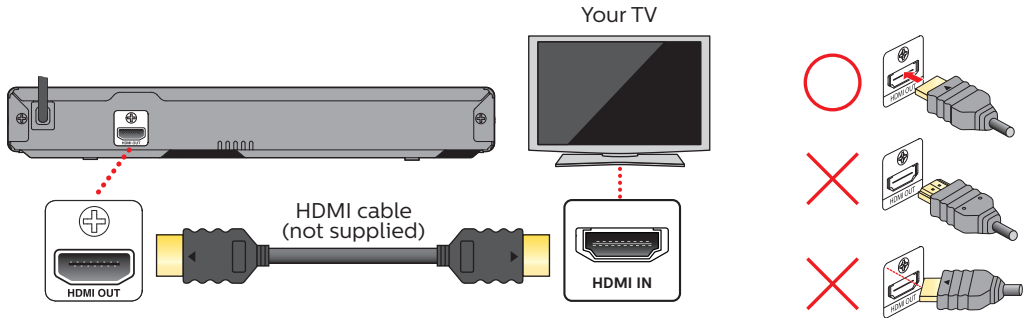
e.g.) Blu-ray Disc™



4. CONNECTIONS

4.1. Connection to a TV

■ HDMI Connection (Supports up to 1080i^(*1), 1080p^(*2), 1080p/24^(*3) resolution.)



No analog audio connection required.

(*1) 1080i: Outputs video data with a frame rate of 30 frames per second.

(*2) 1080p: Outputs video data with a frame rate of 60 frames per second.

(*3) 1080p/24: Outputs video data with a frame rate of 24 frames per second.

- Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.
- When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection. High Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.

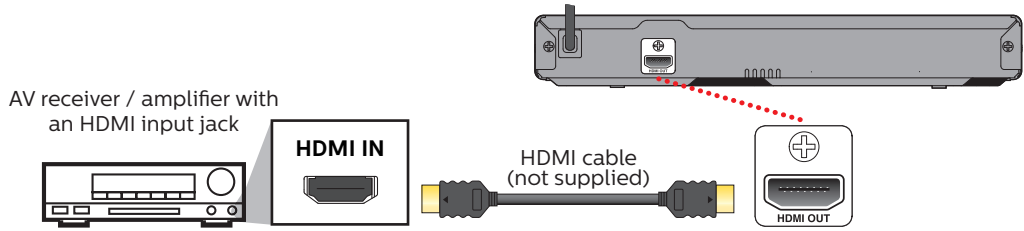
ⓘ Note

- If the TV receives no Audio / Video signal after properly connecting the unit and the TV with an HDMI cable, it may be the TV. Please refer to the TV's user's manual.
- If the TV receives no Audio signal after properly connecting the unit and the TV with an HDMI cable, make sure the TV input is not an HDMI-DVI Input terminal.

4.2. Connection to an Audio System

- When you change the connections, all devices should be Turned Off.
- When connecting the unit to an external audio system, refer to the User Manual for Setup / Configuration help.

■ HDMI Audio Connection



4.3. HDMI Audio Output

	"HDMI Audio" setting →	"Bitstream"		"LPCM"	
	"Blu-ray Disc Audio" setting →	"Mix Audio Output"	"Primary Audio Only"	"Mix Audio Output"	"Primary Audio Only"
Media ↓	Audio Source ↓	Which audio format can be output depends on the compatibility of the connected device.			
BD-video	Dolby Digital	Dolby Digital or Multi LPCM		Multi LPCM	
	Dolby Digital Plus	Dolby Digital or Multi LPCM*2	Dolby Digital Plus or Dolby Digital or Multi LPCM*1	Multi LPCM*2	Multi LPCM*1
	Dolby TrueHD	Dolby Digital or Multi LPCM*4	Dolby TrueHD or Dolby Digital or Multi LPCM*3	Multi LPCM*4	Multi LPCM*3
	DTS®	DTS® or Downmix 2ch PCM		Downmix 2ch PCM	
	DTS-HD®	DTS® or Downmix 2ch PCM*5	DTS-HD® or DTS® or Downmix 2ch PCM*5	Downmix 2ch PCM*5	
	LPCM	Multi LPCM			
DVD-video	Dolby Digital	Dolby Digital or Multi LPCM		Multi LPCM	
	DTS®	DTS® or Downmix 2ch PCM		Downmix 2ch PCM	
	MPEG	MPEG or Multi LPCM		Multi LPCM	
	LPCM	Multi LPCM			
Audio CD	LPCM	2ch LPCM			
DTS-CD	DTS®	DTS® or Downmix 2ch PCM		Downmix 2ch PCM	
AVCHD	Dolby Digital	Dolby Digital or Multi LPCM		Multi LPCM	
	LPCM	Multi LPCM			

*1) Fully decoded.

*2) Only the independent substream is decoded.

*3) Dolby TrueHD stream is decoded.

*4) Only the Dolby Digital substream is decoded.

*5) Only the core substream is decoded.

Note

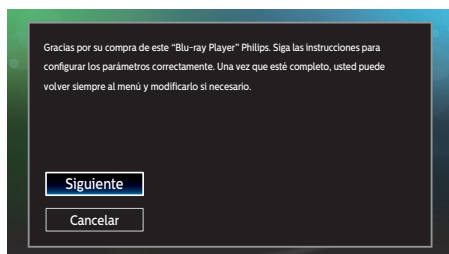
- If the connected device is not compatible with the HDMI BITSTREAM, audio will be output as multi LPCM or 2-channel down-mixed LPCM depending on the capability of the connected device even if you select "Bitstream" in "HDMI Audio" setting.
- When playing back a BD-video which only contains the primary audio, the audio output will be the same case as "Primary Audio Only" even if the "Blu-ray Disc Audio" is set to "Mix Audio Output".
- HD Audio will not be output when "Blu-ray Disc Audio" is set to "Mix Audio Output" and the Button Sound feature in the content is enabled. (Button Sound setting may be found in Pop Menu.)

5. BEFORE YOU START

5.1. Finding a Viewing Video Source Input on Your TV

After you have completed all of the connections to your TV, review the steps below.

1. Press [**⏻**(STANDBY/ON)] to Turn On the unit.
2. Turn On your TV.
3. Please locate the Source / Input / AUX / Video button on TV's remote control. The button may vary on the TV brand and model. Once you have located the button, press until you see welcome screen of this unit.



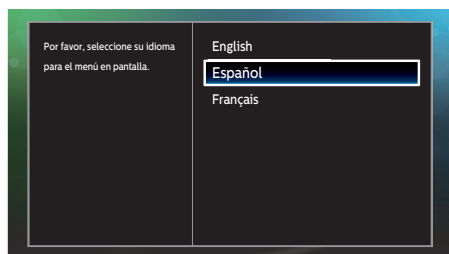
This is the correct viewing of the video Source Input.

- If the TV is connected by an HDMI cable, it may take a few moments for the opening picture to appear.
- If a certain amount of time has passed since you Turned On the unit, welcome screen only appears the first time you Turn On the unit.

5.2. Initial Setup

Please follow the instructions below to complete the initial setup.

1. While welcome screen is displayed, use [**▲** / **▼**] to select "Siguiente", then press [**OK**].
2. Language setup screen will appear. Use [**▲** / **▼**] to select your language, then press [**OK**].



■ How to Reset the OSD Language



You can reset the OSD language if you selected the wrong language.

1. Press [**⬆**(HOME)] to display the Home Menu.
2. Use [**◀** / **▶**] to select "⚙️", then press [**OK**].
 - This item is "Setup" (English) / "Instalación" (Spanish) / "Installation" (French).
 - From here on, please select one of the following items you can find on screen:
3. Use [**▲** / **▼**] to select ""Preference Setup" (English) / "Configuración de Preferencias" (Spanish) / "Configuration des préférences" (French), then press [**OK**].
4. Use [**▲** / **▼**] to select "Menu Language" (English) / "Menú Idioma" (Spanish) / "Langage du menu" (French), then press [**OK**].
5. Use [**▲** / **▼**] to select your desired language, then press [**OK**].
6. If the items that were set are displayed in your desired language, then press [**⬆**(HOME)] to exit.

6. INFORMATION ON PLAYBACK

6.1. Information on Playback

■ Playable Discs and Files

Playable discs	Logos
Blu-ray Disc™ - BD-video - BD-RE* (ver. 2.1) (Recorded in BDMV format) - BD-R* (ver. 1.1 / 1.2 / 1.3) (Recorded in BDMV format) (Unfinalized disc may not be played back.)	
DVD-video	
DVD-RW (finalized video mode discs only)	
DVD-R (finalized video mode discs only)	
CD-DA (audio CD)	
CD-RW	 
CD-R	 
DTS-CD	-

(*) Due to the intentional progression of the Blu-ray Disc™ format by its standard setting authority, the company cannot guarantee or warrant the playability of future extensions of the Blu-ray Disc™ format with this product.

Playable files	Media
AVCHD	DVD-RW/-R SD Memory Card using USB card reader / USB hub (not supplied)
JPEG	BD-RE/-R DVD-RW/-R CD-RW/-R USB Memory Stick

Readable device	Playable files / data
USB Memory Stick	JPEG, picture-in-picture commentary, Subtitles or other extras for some BD-ROM.

ⓘ Note

- This unit may not be able to play back discs recorded on PC's or other recorders.

continued on next page

■ Recommended Specifications

AVCHD

This unit cannot play back stand-alone AVCHD files (*.m2ts, *.mts or *.m2t) written to a DVD or copied to an SD Memory Card. The DVD or SD Memory Card containing AVCHD files must have a proper file and folder structure meeting AVCHD format specifications. Please use AVCHD compliant device / software to burn or copy AVCHD files to DVD or SD Memory Card. (Please refer to user manuals of your device / software for more information.)

JPEG

Resolution

- Upper limit: 4,096 x 4,096 dots (sub sampling is 4:4:4)
5,120 x 5,120 dots (sub sampling is up to 4:2:2 or 4:2:0)
- Lower limit: 32 x 32 dots
- Maximum file size of a picture: 12MB

■ Folder / File Number Limitations

Blu-ray Disc™, DVD and USB Memory Stick

- 999 folders (groups) and 9,999 files

CD

- 255 folders (groups) and 999 Tracks / Files

Caution / Note for USB Memory Stick

⚠ Caution

- Do not try to open or modify the USB Memory Stick.
- Do not touch the terminal surface with your fingers or any metals.

📌 Note

- This unit supports USB Memory Stick with FAT16 / FAT32 file system.
- This unit does not support NTFS file system.
- This unit may not read USB Memory Sticks formatted on a computer. If that is the case, please reformat the USB Memory Sticks on this unit and try again. Please note that all files stored on the USB Memory Stick will be erased upon format.
- Please keep the USB Memory Sticks in their cases when you are not using them.
- Some USB Memory Sticks may not work with this unit.
- This unit can read SD Memory Cards using a USB card reader (not supplied).
 - **Readable cards:** SD Memory Card (8 MB - 2 GB)
miniSD Memory Card (16 MB - 2 GB)
microSD Memory Card (256 MB - 2 GB)
SDHC Memory Card (4 GB - 32 GB)
miniSDHC Memory Card (4 GB - 8 GB)
microSDHC Memory Card (4 GB - 16 GB)
 - **Readable files:** AVCHD / JPEG
- Depending on a USB card reader or USB hub, connected card or device may not be recognized.

■ Unplayable Media and Files

The following discs will not be played back on this unit.

- CD-ROM
- DVD-RAM
- DVD-audio
- HD DVD
- SDXC Memory Card
- unfinalized disc
- BD-RE (ver. 2.1) (Recorded in BDAV format)
- BDXL™
- Blu-ray Disc™ / DVD / CD / USB Memory Stick / SD Memory Card containing DivX® files
- Blu-ray Disc™ / USB Memory Stick that contains AVCHD files
- Blu-ray Disc™ / DVD hybrid disc (played back as a BD-video only)
- DVD-RW/-R recorded in 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 is not guaranteed.
- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).
- CD-I (compact disc-interactive)
- VSD (video single disc)
- video CD
- SVCD
- microSDXC Memory Card
- BD-RE (ver. 1.0)
- BD-R (ver. 1.1 / 1.2 / 1.3) (Recorded in BDAV format)

■ Region Codes

This unit has been designed to play back BD-video with region "A" and DVD-video with region "4" or "ALL". You cannot play back BD-video or DVD-video that is labeled for other regions.

Look for the symbols 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 on this unit. The letter or number inside the globe refers to region of the world. BD-video or DVD-video discs labeled for a specific region can only be played back on players with the same region code.

BD-video

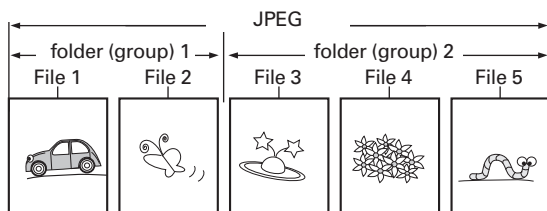
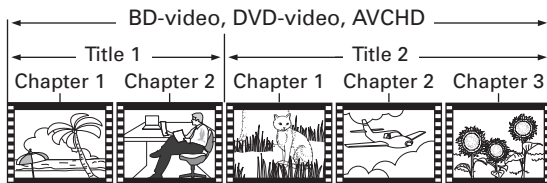


DVD-video




■ Hint for Disc Playback

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



■ Description for Icons

[] : group (folder) icon

[] : music file icon

[] : photo file icon

- "Folders" refers to the group of files.

- "Track" refers to the contents recorded on the audio CD.

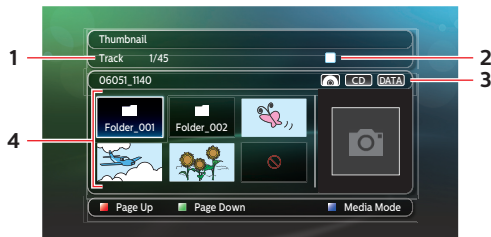
- "Files" refers to the contents on a disc which are recorded in AVCHD or JPEG file format.

⊖ Note

- Unrecognizable characters will be replaced with asterisks.

6.2. Guide to File List

■ Picture File List



1. Current File number / Total number of Files

3. Media type

2. Playback status symbol

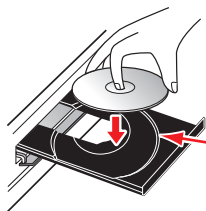
4. Group (folder) / File list (thumbnails)

■ How to Navigate through the File List

- For picture file list, use [▲ / ▼ / ◀ / ▶] to move the highlight up, down, left and right. Press [BACK] to go back to the previous hierarchy.
- To access the files in a Group (folder), select the desired Group (folder), then press [OK].
- Press [RED] or [GREEN] to change the page list up or down.
- Press [BLUE] to go back to the file type ("Photo" / "AVCHD") selection screen.
- Press [▲(HOME)] to Exit.

6.3. 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.
3. Press [▲(OPEN/CLOSE)] to Close the disc tray.
 - It may take a while to load the disc.



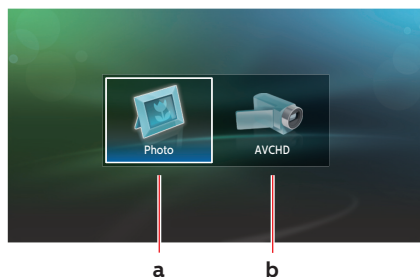
Align the Disc to the disc tray guide.

7. BASIC PLAYBACK

7.1. Playing Back a Disc



1. Insert a disc (refer to "How to Insert a Disc" on page 20).
 - For Blu-ray Disc™ / DVD / audio CD or a disc containing only one type of file, playback will start automatically. If not, press [▶II(PLAY/PAUSE)].
 - Some discs may show a Title or a Disc Menu. In this case, refer to "Using the Title / Disc / Pop Menu" on page 23.
2. Select the type of the file you want to play back, then press [OK].



- a. For "Photo", thumbnail screen will appear.
 - Refer to "Picture File List" on page 20 and "How to Navigate through the File List" on page 20.
- b. For "AVCHD", playback will start automatically.

To Skip to the next Title / Chapter / Track / File: Press [▶](SKIP).

To Skip to the previous Title / Chapter / Track / File: Press [◀](SKIP).

To Pause playback: Press [▶II(PLAY/PAUSE)].

To Return to Normal playback: Press [▶II(PLAY/PAUSE)].

To Stop playback: Press [■(STOP)].

Playback will be in Resume-On-Stop mode. To clear the resume information, press [■(STOP)] again.

■ Resume-On-Stop Mode

Blu-ray Disc™ / DVD / AVCHD

When you press [▶II(PLAY/PAUSE)] next time, the playback will start from the point where it has been stopped.

Audio CD

Playback will start from the point where it is stopped next time you press [▶II(PLAY/PAUSE)]. If you press [OK] instead of [▶II(PLAY/PAUSE)], playback will start from the beginning of the Track / File instead of resuming from the stop point.

JPEG

Playback will start from the beginning of the current file next time you press [▶II(PLAY/PAUSE)] or [OK].

⊖ Note

- Playback will also Stop and the Home Menu will appear when you press [⬆(HOME)].
- For BD-Java application, the Resume-On-Stop may not be available.
- If you press [OK] instead of [▶II(PLAY/PAUSE)], playback can be started from the beginning of the disc even if it was in the Resume-On-Stop mode.
- Resume-On-Stop mode remains in effect even after Power is Turned Off, but will be cancelled once the disc is ejected.
- With regard to the multi-border BD-RE/-R, additionally recorded sections cannot be recognized.
- With regard to the multi-border DVD-RW/-R, additionally recorded sections may not be recognized.

continued on next page

⊖ Note for JPEG Playback

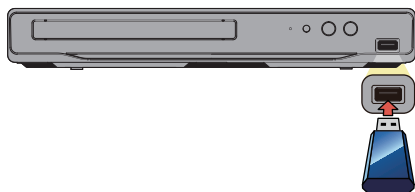
- Every press of [◀ / ▶] will turn the image by 90 degrees when an image is displayed.
- During playback, press [DISC MENU] to display thumbnail screen.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.

7.2. Playing Back Contents from a USB Memory Stick

JPEG

You can play back JPEG files stored on a USB Memory Stick. With the USB Memory Stick, you can also enjoy the following functions.

- Special additional contents for BD-ROM.
(For more information about the special additional contents, refer to the instruction book that came with the disc.)



1. Connect a USB Memory Stick.
2. Press [▲(HOME)].
3. Use [◀ / ▶] to select "Browse USB", then press [OK].
4. Follow step 2 in "Playing Back a Disc" on page 21.

⚠ Caution

- Do not disconnect the USB Memory Stick or switch the unit to Standby mode while a content on the USB Memory Stick is being accessed. It may result in malfunction or loss of the stick's data.
- If you connect a USB Memory Stick or SD Memory Card via a USB card reader or USB hub, BD-ROM data will be written onto the first connected card or device. Connecting a USB Memory Stick directly to this unit is recommended.
- Occasionally, SD Memory Cards / Micro SD Memory Cards will not be recognized when using certain Adapters. In such cases, try a different USB Adapter.

⊖ Note

- When connecting more than two USB Memory Sticks to a USB Hub, this unit may fail to recognize them. In such cases, disconnect the USB Hub from the unit then reconnect it, or use less USB Memory Sticks at a time.
- The resume information will be cleared when;
 - [■(STOP)] is pressed while in the Resume-On-Stop mode.
 - the USB Memory Stick is disconnected.
 - the unit is switched to Standby mode.
- Do not delete the folders or files on the USB Memory Stick with your computer. This unit may not read USB Memory Sticks formatted on a computer.
- If a folder or file name includes one of the following unrecognizable characters, the folder or file name may not be displayed correctly.
 - Unrecognizable characters: ., " = + [] ; / \ : | ¥
- This unit can read JPEG files and AVCHD on an SD Memory Card by using USB card reader / USB hub (not supplied).

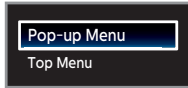
7.3. Using the Title / Disc / Pop Menu



Some BD-videos, DVD-videos or AVCHD files may contain a Title Menu which describes the contents of the disc, or a Disc Menu which guides you through the available functions on the disc.

- With such discs, a Title Menu or a Disc Menu may appear automatically when you insert the disc. Otherwise, press **[DISC MENU]** to call up the Menu Select Menu. Use **[▲ / ▼]** to select "Top Menu" or "Pop-up Menu/Menu", then press **[OK]**. Refer to the disc's manual on how to navigate through the menu.

e.g.) Blu-ray Disc™



Note

- Menus vary among discs. Refer to the information accompanying the disc for details.
- **[DISC MENU]** may not work with some discs.

8. SPECIAL PLAYBACK

8.1. Fast Forward / Fast Reverse



1. During playback, press [▶▶ (FORWARD)] repeatedly for Fast Forward.
During playback, press [◀◀ (REVERSE)] repeatedly for Fast Reverse.
2. Press [▶II (PLAY/PAUSE)] to return to Normal playback.

⊖ Note

- For Blu-ray Disc™, DVD and AVCHD, speed changes at 5 different levels.
- For audio CD, speed changes at 3 different levels.
- For audio CD, Fast Forward / Fast Reverse search between different files are not available.

8.2. Slow Forward Playback



1. During playback, press [▶II (PLAY/PAUSE)]. Then press [▶▶ (FORWARD)].
Every time you press [▶▶ (FORWARD)], the playback speed changes at 3 different levels.
2. Press [▶II (PLAY/PAUSE)] to return to Normal playback.

⊖ Note

- Slow Reverse is not available.

8.3. Step by Step Playback



1. In pause mode, press [▶| (SKIP)] repeatedly.
Every time you press [▶| (SKIP)], playback will advance one step at a time.
2. Press [▶II (PLAY/PAUSE)] to return to Normal playback.













⊖ Note

- Step by step reverse is not available.

8.4. Repeat Playback

Available repeat functions vary depending on the disc.

1. During playback, press **[OPTIONS]** to display the Play Menu.
2. Use **[▲ / ▼]** to select "Repeat" then press **[OK]**.
3. Use **[▲ / ▼]** to select the desired repeat mode.

REPEAT MODE	AVAILABLE MEDIA
Chapter Repeat The current Chapter will be played back repeatedly.	  
Title Repeat The current Title will be played back repeatedly.	  
Track Repeat The current Track or File will be played back repeatedly.	 
All Repeat All Tracks in the media will be played back repeatedly.	
Group Repeat The current Group (folder) will be played back repeatedly.	
Random Repeat Repeats the random playback.(CD) Repeats the random playback in a folder.(JPEG)	 

4. Press **[BACK]** to Exit.

Note

- The repeat setting will be cancelled when you stop playback.
- When the repeat setting is set for an JPEG folder (file), the repeat setting will be cancelled if you select another JPEG folder (file) to play back.

8.5. Slide Show

JPEG

1. Follow steps 1 and 2 in "Playing Back a Disc" on page 21.
2. Open the folder which contains the desired JPEG files.
3. Use **[▲ / ▼ / ◀ / ▶]** to select a desired file to be played back, then press **[▶II(PLAY/PAUSE)]** or **[OK]**.
 - An image will be played back from the selected file and go to the next one in turn every 10 seconds.
4. Press **[■(STOP)]** to Stop playback.
 - When you press **[DISC MENU]** in the stop mode, the highlight goes back to the first item.
 - When you press **[DISC MENU]** in the Resume-On-Stop mode, the highlight goes back to the file played last.

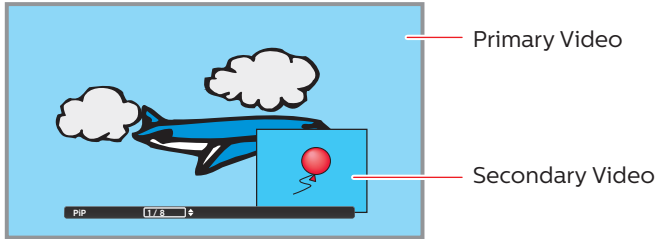
Note

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

8.6. PiP (BONUSVIEW™) Setting



Some BD-videos have the PiP function which enables you to display the Secondary Video in the Primary Video.



1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "PiP" then press [OK].
 - PiP information will appear.
3. Use [▲ / ▼] to select the Secondary Video you want to show.
 - The Secondary Video will be displayed with the Secondary Audio.
 - Use [◀ / ▶] to switch between current setting and "Off".
4. Press [BACK] to Exit.
 - How to select the Secondary Audio output, refer to "Switching Audio Soundtrack" on page 30.

Note

- Not that the secondary video will be displayed at any time during playback. Depending on the scene, the secondary video may not be available.

8.7. Title / Chapter Search



■ Using [◀(SKIP)] / [▶(SKIP)]

1. During playback, press [▶(SKIP)] to Skip the current Title or Chapter and move to the next.

The Title or Chapter will move forward 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 [◀(SKIP)].

Press [◀(SKIP)] repeatedly to go to the previous Title or Chapter. The Title or Chapter may move backward one at a time.

■ Using "Search"

1. During playback, press [OPTIONS] to display the Play Menu.

2. Use [▲ / ▼] to select "Search", then press [OK].

3. Use [▲ / ▼] to select "Title" or "Chapter", then press [OK].

e.g.) Blu-ray Disc™



4. Use [▲ / ▼ / ◀ / ▶] to select the Title / Chapter number, then press [OK].

Playback will start from the beginning of the Title / Chapter.

ⓘ Note

- As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as described.
- For DVD, the Title Search can be performed on the Home menu by pressing [OPTIONS] while in the Stop mode or the Resume-On-Stop mode.

8.8. Track / File Search



■ Using [◀(SKIP)] / [▶(SKIP)]

1. During playback, press [▶(SKIP)] to Skip the current Track or File and move to the next.

The Track / File will move forward one at a time. To go back to the beginning of the current Track / File, press [◀(SKIP)].

Press it repeatedly to go to the previous Track / File. The Track / File will move backward one at a time.

■ Using "Search"

1. During playback, press [OPTIONS] to display the Play Menu.

2. Use [▲ / ▼] to select "Search", then press [OK].

- For JPEG files, skip to step 4.

3. Use [▲ / ▼] to select "Track", then press [OK].

4. Use [▲ / ▼ / ◀ / ▶] to select the Track number, then press [OK].

Playback will start from the beginning of the Track.

8.9. Time Search



1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "Search", then press [OK].
3. Use [▲ / ▼] to select "Time", then press [OK].

e.g.) Blu-ray Disc™



4. Enter the time count you want to jump to.
 - Use [▲ / ▼] to enter the first digit of the time counter, then press [▶].
 - When the last digit is entered, press [OK].Playback will start from the desired time entered.

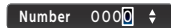
8.10. Number Select Search



Some BD-videos and DVD-videos or AVCHD files have button menus to jump to each button displayed scene. During playback the scenes which have the button menu, you can enter the button number by using the Number Select Menu.

1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "Number", then press [OK].

e.g.) Blu-ray Disc™



- For BD-Java, the Number Select Menu of single-digit is displayed.
 - For DVD, the Number Select Menu of double-digit is displayed.
 - For BD-videos and AVCHD files, the Number Select Menu is displayed even if there is no button menu in the scene.
3. Use [▲ / ▼] to enter the number you want to jump to.
 - To move the digit that you wish to change, press [◀ / ▶].
 4. After all digit numbers are entered, press [OK].
Playback of the selected scene will start.

Note

- As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as described.

8.11. 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 [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "Subtitle", then press [OK].
3. Use [▲ / ▼] to select "Primary", "Secondary" or "Style", then press [OK].

"Primary": Sets the Subtitle for the Primary Video.

"Secondary": Sets the Subtitle for the Secondary Video.

"Style": Sets Style of the Subtitle.

4. Use [▲ / ▼] to select your desired Subtitle or Style.



• Use [◀ / ▶] to switch between current Subtitle setting and "Off".

5. Press [BACK] repeatedly to Exit.



1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "Subtitle", then press [OK].
3. Use [▲ / ▼] to select your desired Subtitle.



• Use [◀ / ▶] to switch between current Subtitle setting and "Off".

4. Press [BACK] to Exit.

Note

- Some discs will only allow you to change the subtitles from the Disc Menu or Pop Menu. Press [DISC MENU] to select the "Top Menu" or "Pop-up Menu" (or "Menu").
- If the disc has no Subtitle language or Subtitle Style, "Not Available" will be displayed on the TV screen.
- During playback of the Secondary Video, the Primary Subtitle setting is not available except when there is no Subtitle for the Secondary Video.

8.12. Switching Audio Soundtrack

When playing back video material recorded with two or more soundtracks (these are often in different audio languages or audio formats), you can switch them during playback. For Blu-ray Disc™, available audio varies depending on “Blu-ray Disc Audio” setting. Refer to page 33.

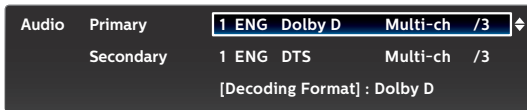


1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select “Audio”, then press [OK].
3. Use [▲ / ▼] to select “Primary” or “Secondary”, then press [OK].

“Primary”: Sets the audio for the Primary Video.

“Secondary”: Sets the audio for the Secondary Video.

4. Use [▲ / ▼] to select your desired audio stream channel.

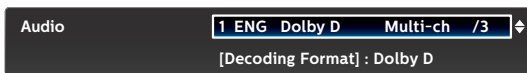


- For “Secondary”, use [◀ / ▶] to switch between current audio setting and “Off”.

5. Press [BACK] repeatedly to Exit.



1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select “Audio”, then press [OK].
3. Use [▲ / ▼] to select your desired audio stream channel.



- For audio CD, you can select following options.

“Stereo”: Both right and left channels are active (stereo).

“L-ch”: Only left channel is active.

“R-ch”: Only right channel is active.


4. Press [BACK] to Exit.

Note

- The Secondary Audio will not be output when the Secondary Video is not displayed or when “Blu-ray Disc Audio” is set to “Primary Audio Only”. (For some Blu-ray discs, Secondary Audio will be output even when Secondary Video is Off.)
- The sound mode cannot be changed during playback of discs not recorded in multiple audio mode.
- Some discs allow changing the audio language setting from Disc Menu. (Operation varies depending on the discs. Refer to the manual accompanying the disc.)
- “Audio” may not work on some discs with multiple audio streams or channels (e.g. DVDs that allow changing audio setting on the disc menu).
- If the disc has no audio language, “Not Available” will be displayed on the TV screen.
- For DTS-CD (5.1 music disc), selecting audio streams or channels is not available.


8.13. Switching Camera Angles



Some BD-videos and DVD-videos contain scenes which have been shot simultaneously from various angles. You can change the Camera Angle when  appears on the TV screen.

1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "Angle", then press [OK].
3. Use [▲ / ▼] to select your desired angle.
 - The selected Angle will be displayed on the display bar at the top of the TV screen.
4. Press [BACK] to Exit.

Note

- If "Angle Icon" setting is set to "Off",  will not appear on the TV screen.

8.14. Noise Reduction



Reduces the noise of the playback picture.

1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "Noise Reduction", then press [OK].
3. Use [▲ / ▼] to select your desired setting.

e.g.) Blu-ray Disc™



Noise Reduction **Off** ↕

"On": Activates noise reduction.

"Off": Deactivates noise reduction.

4. Press [BACK] to Exit.

Note

- The setting will remain the same even if the unit is switched to Standby mode.

8.15. CLEAR+



CLEAR+ enhances the contrast of the picture and makes edges crisp. It is effective especially for DVD's.

1. During playback, press [OPTIONS] to display the Play Menu.
2. Use [▲ / ▼] to select "CLEAR+", then press [OK].
3. Use [▲ / ▼] to select your desired setting.

e.g.) Blu-ray Disc™



"On": Gives low-definition videos high-definition like picture quality.

"Off": Shows the original picture as recorded.

4. Press [BACK] to Exit.

⊖ Note

- Pictures may appear whiter depending on the material and the connected TV. In this case, turn "CLEAR+" Off.
- "CLEAR+" is not effective under the following conditions.
 - When the material is in 1080p/24 which is commonly used in Blu-ray discs.

9. LIST OF SETTINGS

In "Setup", you can customize various kinds of settings as you prefer. Refer to the following instructions to navigate through the Setup Menu.

1. Press [**▲**(HOME)] to access the Home Menu.
2. Use [**◀** / **▶**] to select "Setup", then press [**OK**].
3. Use [**▲** / **▼**] to select the desired Category, then press [**OK**].
4. Use [**▲** / **▼**] to move up and down the list to select Menus / Options.
5. To make a selection or to access options of an item, select the desired item, then press [**OK**].
 - To go back to the previous screen, press [**BACK**].
6. Press [**▲**(HOME)] to Exit.

Refer to the following table for the types of settings you can customize. The item highlighted in gray is the default setting.

Category	Menus / Options	
Video Setup	TV Display	4:3 Normal
		4:3 Crop
		16:9 Widescreen
		16:9 Squeeze
	HDMI Video	Auto
		480p
		720p
		1080i
		1080p
	HDMI Deep Color	1080p/24
		Auto
	De-interlacing Mode	Off
		Auto
Audio Setup	Night Mode	Video
		Auto
		On
	HDMI Audio	Off
		Bitstream
	Blu-ray Disc Audio	LPCM
		Mix Audio Output
EasyLink Setup	EasyLink	Primary Audio Only
		On
	One Touch Play	Off
		On
	One Touch Standby	Off
		On

Category	Menus / Options		
Preference Setup	Menu Language	Auto	
		English	
		Español	
		Français	
		Original	
	Audio	Bulgarian	Italian
		Chinese	Japanese
		Czech	Korean
		Danish	Norwegian
		Dutch	Polish
		English	Portuguese
		Finnish	Romanian
		French	Russian
		German	Slovak
		Greek	Spanish
		Hungarian	Swedish
		Icelandic	Turkish
		Irish	Other
		Subtitle	Off
			Bulgarian
	Chinese		Japanese
	Czech		Korean
	Danish		Norwegian
	Dutch		Polish
	English		Portuguese
	Finnish		Romanian
	French		Russian
	German		Slovak
	Greek		Spanish
	Hungarian		Swedish
	Icelandic		Turkish
	Irish		Other
	Disc Menu		Bulgarian
		Chinese	Japanese
		Czech	Korean
		Danish	Norwegian
		Dutch	Polish
		English	Portuguese
		Finnish	Romanian
		French	Russian
		German	Slovak
		Greek	Spanish
		Hungarian	Swedish
Icelandic		Turkish	
Irish		Other	
Parental Control		Off	
		8 [Adult]	4 [PG-13]
	7 [NC-17]	3 [PG]	
	6 [R]	2 [G]	
	5 [PGR]	1 [Kid Safe]	
Change Password			
Screen Saver	On		
	Off		
Angle Icon	On		
	Off		

continued on next page

Category	Menus / Options		
Advanced Setup	Software Update	Disc	
		USB	
	Version Info		
	Restore default settings	Reset Settings	
		Format USB	
		(Unit) Erase Saved BD-ROM Data	
		(USB) Erase Saved BD-ROM Data	
	OSS		

10. SETUPS

10.1. EasyLink(HDMI CEC)

HOME → "Setup" → "EasyLink Setup" → "EasyLink"

EasyLink(HDMI CEC) allows integrated system control over HDMI and is part of the HDMI standard. This function may not work properly depending on the device connected to the unit. When "EasyLink" setting is set to "On" the functions listed below will be available.

■ One Touch Play

When the buttons below are pressed then operations are performed on this unit, the TV will automatically be Turned On and switched to the appropriate video Source Input.

Buttons for one touch play:

- [▶|| (PLAY/PAUSE)], [◀ (SKIP)], [▶ (SKIP)], [🏠 (HOME)] (on the remote control)
- [DISC MENU] (on the remote control when the a disc is inserted in the unit)

■ One Touch Standby

When you press and hold [⏻ (STANDBY/ON)] for 2 seconds, it turns Off the TV first and then Turns Off the power on this unit.

When the connected HDMI CEC compatible display device is Turned Off first, then it Turns Off the power to this unit.

■ System Information

Get & Set Menu Language

The unit recognizes the OSD language set on the TV and automatically sets the same language as the Player Menu Language (OSD menu language) for this unit. "Menu Language" under "Preference Setup" on page 34 for available languages.

- Feature is available only when "Auto" is selected in the Setup Menu "Menu Language" section in "Setup" while connected via an HDMI cable.

10.2. HDMI Video Resolution

HOME → "Setup" → "Video Setup" → "HDMI Video"

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

You can select the desired video resolution among the settings listed below: "Auto", "480p", "720p", "1080i", "1080p", "1080p24".

Actual Output Resolution:

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

- For AVCHD, outputting the video in 24 frames per second (1080p/24) is not available.

Note

- The selected resolution must also be supported by your display device.
- If your TV and the unit are connected by a DVI cable and if "Auto" is selected, "480p" will be automatically in effect.
- Refer also to your TV's manual.
- When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- The audio signals from the HDMI OUT jack (including the sampling frequency, the number of channels and bit length) may be limited by the connected device.
- Among the display devices that support HDMI, some do not support audio output (for example, projectors). While connected to a device such as a projector, audio will not be output from the HDMI OUT jack.
- When this unit's HDMI OUT 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.
- HDMI video resolution does not work during the playback of a BD-video.

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 an AV receiver / amplifier) for more information.

10.3. Parental Control

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

1. Enter your 4-digit password.

- Use [▲ / ▼] to enter the first digit of your password, then press [▶].
- When 4-digit numbers are entered, press [OK].

For the first time use:

Enter any 4-digit number (except for 4737). That number will be used as the password. Record your password, in case you forget it.

- If you forget the password, enter "4737". The password will be cleared and rating level will be set to "Off".

■ Rating Level

HOME → "Setup" → "Preference Setup" → "Parental Control"

1. Use [◀ / ▶] to select "Setup" in the Home Menu, then press [OK].
2. Use [▲ / ▼] to select "Preference Setup", then press [OK].
3. Use [▲ / ▼] to select "Parental Control", then press [OK].
4. Enter your 4-digit password.
 - Use [▲ / ▼] to enter the first digit of your password, then press [▶].
 - When 4-digit numbers are entered, press [OK].
5. Use [▲ / ▼] to select your desired level, then press [OK].
6. Press [⬆(HOME)] to Exit.

	RATING EXPLANATIONS
Off	Parental is inactive; all discs can be played back.
8 [Adult]	BD / DVD software of any grades (adult / general / children) can be played back.
7 [NC-17]	No one under 18.
6 [R]	Restricted; under 18.
5 [PGR]	Parental Guidance Recommended.
4 [PG-13]	Unsuitable for children under 13.
3 [PG]	Parental Guidance suggested.
2 [G]	General Audience.
1 [Kid Safe]	Suitable for children.

■ Password Change

HOME → "Setup" → "Preference Setup" → "Change Password"

1. Use [◀ / ▶] to select "Setup" in the Home Menu, then press [OK].
2. Use [▲ / ▼] to select "Preference Setup", then press [OK].
3. Use [▲ / ▼] to select "Change Password", then press [OK].
4. Enter your 4-digit password.
 - Use [▲ / ▼] to enter the first digit of your password, then press [▶].
 - When 4-digit numbers are entered, press [OK].
5. Enter a new 4-digit password in the same way as the step 4.
6. Reenter the same new 4-digit password in the same way as the step 4.
7. Press [⬆️(HOME)] to Exit.

To temporarily disable parental lock:

Some discs allow you to temporarily disable parental lock. When you try to play them back, the password entry screen will be displayed.

Follow the instruction which appears on the TV screen to disable parental lock.

10.4. Software Update

HOME → "Setup" → "Advanced Setup" → "Software Update"

This unit lets you update the software yourself using a software update disc, USB Memory Stick. The available discs are below:

- BD-RE/-R
- DVD-RW/-R
- CD-RW/-R

■ Disc / USB Memory Stick Update

You can update the software by using a disc or USB Memory Stick.

Prepare a blank disc or USB Memory Stick for software update:

Access www.philips.com/support, and download the latest version software to a blank disc or USB Memory Stick using a PC by following the directions described on the website.

- Use a blank disc or USB Memory Stick, download one software per disc or USB Memory Stick. Write the software in the root directory of the disc or USB Memory Stick.
- For more details on how to download the software, please refer to the website.

1. Use [◀ / ▶] to select "Setup" in the Home Menu, then press [OK].
2. Use [▲ / ▼] to select "Advanced Setup", then press [OK].
3. Use [▲ / ▼] to select "Software Update", then press [OK].
4. Use [▲ / ▼] to select "Disc" or "USB", then press [OK].
5. Use [◀ / ▶] to select "Yes", then press [OK].
6. Insert the disc or connect the USB Memory Stick for software update.
7. After loading disc or USB Memory Stick, confirmation message will appear. Select "Yes" and press [OK].
8. The unit will restart automatically, then software update will start.
 - It may take a while to complete the updating.
9. After the update finishes, this unit will restart. Remove the disc or the USB Memory Stick from the unit.

⚠ Caution

- Please do not unplug the AC power cord, eject the disc or disconnect the USB Memory Stick or press [⏻(STANDBY/ON)] to turn the unit to Standby mode while performing a "Disc / USB Update".

📌 Note

- Software update will not change any of the current settings.

10.5. Restore Default Settings

HOME → "Setup" → "Advanced Setup" → "Restore default settings"

Menus to reset player settings, format a USB Memory Stick.

1. Use [◀ / ▶] to select "Setup" in the Home Menu, then press [OK].
2. Use [▲ / ▼] to select "Advanced Setup", then press [OK].
3. Use [▲ / ▼] to select "Restore default settings", then press [OK].
4. Use [▲ / ▼] to select the desired setting, then press [OK].

"Reset Settings":

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

"Format USB" (Only available when a USB Memory Stick is connected):

Initialize the USB Memory Stick.

"(Unit) Erase Saved BD-ROM Data":

Clears the data saved for the BD-ROM contents, such as BD-ROM game scores, on this player.

"(USB) Erase Saved BD-ROM Data"

(Only available when a USB Memory Stick is connected):

Clears the supplemental data for the BD-ROM playback, such as Subtitle data, from the USB Memory Stick.

5. Use [◀ / ▶] to select "Yes", then press [OK].
6. Confirmation message will appear. Press [OK] to complete the setting.
7. Press [⬆️(HOME)] to Exit.

⚠️ Caution

- Do not remove the USB Memory Stick while executing "Format USB" or "(USB) Erase Saved BD-ROM Data". It will damage the USB Memory Stick.

📌 Note

- "Format USB" and "(USB) Erase Saved BD-ROM Data" are not available when a Blu-ray Disc™ is in the unit.

11. TROUBLESHOOTING

Problem	Tip
No power.	Check the AC power cord, if it is properly connected.
	Try another power outlet.
	Unplug the AC power cord, and wait for about 5-10 seconds. Plug it back in and attempt to power On the unit.
No sound or picture.	Make sure both the TV and Blu-ray Disc™ player are Turned On.
	Confirm the connections to the TV are made properly as shown in the "CONNECTIONS" on page 13.
	Check to see whether the connected TV or another device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.)
No reaction to the remote control.	Reduce the distance to infrared sensor window.
	Confirm that the player's AC power cord is plugged into a power outlet.
	Check the batteries in the remote control and make sure they are inserted properly by + or - symbols.
	Please check IR signal. Refer to "IR Signal Check" on page 47.
No Audio / Video signal on the display device via HDMI cable.	If the unit is connected to a non-certified HDMI device, the Audio / Video signal will not output to that device.
	Make sure the display device is on the correct Input / Video source.
	Perform the HDMI hotplug: Disconnecting the HDMI cable from the display device, Turn On both devices, and replug the HDMI cable back in.
	Check with the TV manufacturer, if there are any software updates available for the TV.
	Check to see if the HDMI cable is a certified version.
No high-definition video signal on the TV screen.	Does the disc contain high-definition video? High-definition video is only available when the disc contains it.
	Does the TV support high-definition video? High-definition video is only available when the TV supports it.
Distorted picture.	Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or black / white picture with Blu-ray Disc™ / DVD.	Make sure the disc is compatible with this unit.
No sound or distorted sound.	Adjust the volume.
	Check to see if the speakers are connected correctly.
	Check the HDMI connection.
	Make sure the HDMI cable is not plugged into an HDMI-DVI adapter or Projector which does not handle Digital sound.
	Check the settings in "Audio Setup" menu.
Picture freezes momentarily during disc playback.	Check the disc for fingerprints / scratches and clean with a soft cloth wiping from the center to the outer edge.
Cannot play back a disc.	Make sure that the disc is playable on this unit.
	Check the region code of the disc. This unit supports the following region codes. - Blu-ray Disc™: "A" - DVD: "ALL" or "4"
	For DVD-RW/-R, make sure that the disc is finalized.
	Clean the disc.
	Is the disc a newer title? This problem may be solved by software update. Refer to "Software Update" on page 40.
No return to start-up screen when disc is removed.	Soft reset this unit by turning it Off for 30 seconds, then On again.
	To completely reset the unit, press and hold [⏻(STANDBY/ON)] on the front panel for 10 seconds to shut down the unit or unplug the AC power cord from the AC outlet for 5-10 seconds.

continued on next page

Problem	Tip
⊘ will appear on the TV screen.	The operation is not possible.
Buttons do not work or the unit stops responding.	To soft reset the unit, press and hold [⊘ (STANDBY/ON)] on the front panel for 10 seconds to shut down the unit or to hard reset the unit by unplugging the AC power cord from the AC outlet for 5-10 seconds.
The unit does not respond to some operating commands during playback.	The operations may be prohibited by the disc. Refer to the instructions for the disc.
The unit cannot read Blu-ray Disc™ / DVD/ CD.	Condensation? (Let sit 1 or 2 hours)
	Check to see if the disc is compatible with this unit. (Refer to page 17.)
	Wipe dirt off the disc from the center to the outside or replace the disc. Refer to "Cleaning Discs" on page 47.
Scene shooting Angle does not switch.	Angles cannot be switched for Blu-ray Disc™ / DVD which do not contain multiple Angles. In some cases multiple Angles are only recorded for specific scenes.
Playback does not start when a Title is selected.	Check the settings in "Parental Control" menu.
The password for rating level has been forgotten.	Enter the default password "4737", then your forgotten password will be cleared. Then to change password go to "Password Change" on page 39.
Error message appears when I select "Auto" in the "Menu Language".	Make sure that the unit is connected to a TV that is compatible with HDMI CEC and the "EasyLink" is set to "On".
	This error message may appear when your TV's OSD language is not supported by this unit.
Cannot play back AVCHD file.	This unit cannot play back stand-alone AVCHD files (*.m2ts, *.mts or *.m2t) written to a DVD. The DVD containing AVCHD files must have a proper file and folder structure meeting AVCHD format specifications. Please use AVCHD compliant device / software to burn or copy AVCHD files to DVD. (Please refer to user manuals of the device / software for more information.)
The capacity of the USB Memory Stick decreased.	Data may be written on the USB Memory Stick when a BD-video uses the Virtual Package feature while a USB Memory Stick is connected to the unit.
Cannot play back a MPEG-2 video and audio from the USB Memory Stick.	MPEG-2 is not compatible with this unit.
Cannot read the contents on the USB Memory Stick.	The USB Memory Stick is not compatible with this unit or the contents may be damaged.
	Try and Turn Off the unit, then turn it back On.
	To soft reset the unit, press and hold [⊘ (STANDBY/ON)] on the front panel for 10 seconds to shut down the unit or to hard reset the unit by unplugging the AC power cord from the AC outlet for 5-10 seconds.
Cannot play back BD-Video.	Connect a USB Memory Stick (256MB or more of available memory) which is formatted on this unit. Some discs require memory when playing back the content.
	Do not disconnect the USB Memory Stick during playback.
Cannot use BD-Live.	BD-Live function cannot be performed because this unit does not connect the internet.
Cannot play back 3D.	Some discs may not be played back because this unit does not support 3D.
Cannot load a Blu-ray Disc™ (stuck in "Loading..." mode) and cannot Open the disc tray to eject the disc.	Unplug unit from AC outlet for 20 seconds. Plug unit back in and press the [▲ (OPEN/CLOSE)] on the unit to eject the disc.

Problem	Tip
The software update screen appears after Turning On the unit.	<p>Please complete the software update.</p> <p>When the software update has failed, the software update screen will keep appearing after turning the unit on. If the software update continues failing, please try it by using a USB Memory Stick with the update software installed in its root directory. In this case, please change the file name as below. "ECM20MH10000PA4.bin" → "UPDATE10000PA4.BIN" Do not change the numbers. The file name is case sensitive.</p>
Cannot read a USB Memory Stick.	The format of the USB Memory Stick is not compatible with this unit. Please try and format it on this unit (All data will be deleted).
Cannot play back JPEG files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format.
Cannot find a JPEG file.	<p>Make sure that the selected Group (folder) does not contain more than 9,999 files for Blu-ray Disc™ / DVD / USB Memory Stick and 999 files for CD.</p> <p>Make sure that the file extension is .jpg / .JPG / .jpeg / or .JPEG.</p>
No Audio signal from Surround system of the audio system.	Make sure the audio system is turned on.
	Check the Input mode on the audio system if it is on the correct channel.
	Check if the Surround system is compatible with either Bitstream or LPCM. If not sure please check the user manual or contact the Surround manufacturer. Once confirmed check the setting in the "Setup" of this unit.
	Increase the volume level of the Surround system.

 **Note**

- Do not attempt to repair the Blu-ray Disc™ Player yourself. This may cause severe injury, irreparable damage to your Blu-ray Disc™ Player and void your warranty.
- Please have available your Blu-ray Disc™ Player model and serial number before contacting us. These numbers are available on the cabinet, as well as on the packaging.

12. LANGUAGE CODE LIST

Language	Code	Language	Code	Language	Code	Language	Code
A-B		French [FRE]	5264	Macedonian	5957	Siswat	6565
Abkhazian	4748	Frisian	5271	Malagasy	5953	Slovak [SLO]	6557
Afar	4747	Galician	5358	Malay	5965	Slovenian	6558
Afrikaans	4752	Georgian	5747	Malayalam	5958	Somali	6561
Albanian	6563	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Amharic	4759	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Arabic	4764	Greenlandic	5758	Marathi	5964	Swahili	6569
Armenian	5471	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Assamese	4765	Gujarati	5367	Mongolian	5960	T	
Aymara	4771	Hausa	5447	Nauru	6047	Tagalog	6658
Azerbaijani	4772	Hebrew	5451	Nepali	6051	Tajik	6653
Bashkir	4847	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Basque	5167	Hungarian [HUN]	5467	O-R		Tatar	6666
Bengali;Bangla	4860	I-K		Occitan	6149	Telugu	6651
Bhutani	5072	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bihari	4854	Indonesian	5550	Oromo (Afan)	6159	Tibetan	4861
Bislama	4855	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Breton	4864	Interlingue	5551	Pashto; Pushto	6265	Tonga	6661
Bulgarian [BUL]	4853	Inupiak	5557	Persian	5247	Tsonga	6665
Burmese	5971	Irish [GLE]	5347	Polish [POL]	6258	Turkish [TUR]	6664
Byelorussian	4851	Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
C-E		Japanese [JPN]	5647	Quechua	6367	Twi	6669
Cambodian	5759	Javanese	5668	Rhaeto-Romance	6459	U-Z	
Catalan	4947	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Chinese [CHI]	7254	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Corsican	4961	Kazakh	5757	S		Uzbek	6772
Croatian	5464	Kinyarwanda	6469	Samoan	6559	Vietnamese	6855
Czech [CZE]	4965	Kirghiz	5771	Sangho	6553	Volapuk	6861
Danish [DAN]	5047	Kirundi	6460	Sanskrit	6547	Welsh	4971
Dutch [DUT]	6058	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
English [ENG]	5160	Kurdish	5767	Serbian	6564	Xhosa	7054
Esperanto	5161	L-N		Serbo-Croatian	6554	Yiddish	7155
Estonian	5166	Laothian	5861	Sesotho	6566	Yoruba	7161
F-H		Latin	5847	Setswana	6660	Zulu	7267
Faroese	5261	Latvian;Lettish	5868	Shona	6560		
Fiji	5256	Lingala	5860	Sindhi	6550		
Finnish [FIN]	5255	Lithuanian	5866	Singhalese	6555		

Note

- If you choose a language that has a 3-letter-language code (written in bracket), the code will be displayed every time you change the Subtitle language setting on page 29 or audio language setting on page 30. If you choose any other languages, "---" will be displayed instead.

13. SPECIFICATIONS

General

Signal system	NTSC Color
Power requirements	120 V AC, 60 Hz
Power consumption	15 W (standby: 0.2 W)
Dimensions (width x height x depth)	11.1 x 1.7 x 8.3 inches (280.0 x 41.0 x 201.0 mm)
Weight	1.0 kg. (2.21 lbs)
Operating temperature	41°F (5°C) to 104°F (40°C)
Operating humidity	Less than 80 % (no condensation)

Terminals

USB input

TYPE A

HDMI output

HDMI jack x 1

Digital Video: 480p, 720p, 1080i, 1080p, 1080p/24

Digital Audio

Note

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

14. MAINTENANCE

■ Servicing

- Please refer to relevant topics on “TROUBLESHOOTING” on page 42 before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Eject the disc (if possible), disconnect the USB Memory Stick (if connected to the unit), place the unit into Standby mode, unplug the AC power plug, and please contact: 01-800-839-1989 or visit : www.philips.com/support

■ Cleaning the Cabinet

- Wipe the front panel and other exterior surfaces of the unit with a soft 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 outside. Do not wipe in a circular motion.
- Do not use solvents such as benzine, 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.

■ IR Signal Check

If the remote control does not work properly, you can test IR signal using a digital camera (including a cellphone with a built-in camera) to see if the remote control sends out the infrared signal.

1. Turn On the digital camera.
 2. Direct a digital camera to the remote control, then press and hold any button on the remote control.
- If infrared light appears on the digital camera display, the remote control is working.



15. TRADEMARK INFORMATION



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16. GLOSSARY

AACS

Advanced Access Content System (AACS) is the content protection scheme used with Blu-ray discs.

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 its height).

AVCHD

AVCHD is a new format for high definition video camcorders which can record and play high-resolution HD images.

Blu-ray Disc™

Blu-ray Disc™ is a next generation optical video disc which is capable of storing much more data than a conventional DVD. 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".

Cinavia™

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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".

Dolby Digital

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

Dolby Digital Plus

Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

DTS® (Digital Theater System)

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

DTS-HD®

DTS-HD® is a lossless coding technology developed as an extension of the original DTS Coherent Acoustics format. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

HDMI (High-Definition Multimedia Interface)

A digital interface between an 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 BD-RE/-R, DVD-RW/-R, CD-RW/-R, or USB Memory Stick from a computer and play back the files on this unit.

Local Storage

A storage area of sub contents for playing virtual packages on BD-video.

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, DTS, 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 uses Tracks to divide up the content of a disc. The BD-video or DVD-video equivalent is called a Chapter. See also "Chapter".

x.v.Color

"x.v.Color" is a promotion name given to the products that have the capability to realize a wide color space based on the xvYCC specifications and is a trademark of Sony Corporation.

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