

PHILIPS

4K Ultra HD
Blu-ray Player

BDP5502



Register your product and get support at

www.philips.com/welcome

User Manual

To obtain a more detailed electronic copy of this manual, go to www.philips.com/support

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

- To obtain assistance, contact Philips Customer Care Center; México D.F. and Área Metropolitana; **58 87 97 36** Interior de la Republica; **01 800 839 19 89**

CONTENTS

INTRODUCTION	3	LIST OF SETTINGS	37
Safety instruction.....	3	SETUPS	41
Included Accessories.....	6	Network connection	41
FEATURES	7	EasyLink (HDMI CEC).....	43
Features.....	7	HDMI video resolution.....	44
Version information.....	8	Parental controls	45
Symbols used in this owner's manual.....	8	Software update.....	46
FUNCTIONAL OVERVIEW	9	Restore default settings.....	47
Front panel	9	TROUBLESHOOTING	48
Rear panel	9	SPECIFICATIONS	51
Remote control.....	10	NETWORK SERVICE DISCLAIMER	52
Guide to on-screen display.....	12	MAINTENANCE	53
CONNECTIONS	13	TRADEMARK INFORMATION	54
HDMI video /audio connection.....	13	GLOSSARY	55
Audio output.....	15	IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D TELEVISIONS	57
Connection to the network.....	16	LIMITED WARRANTY	58
BEFORE YOU START	17		
Initial setup.....	17		
INFORMATION ON PLAYBACK	18		
Information on playback.....	18		
Guide to file list.....	21		
How to insert a disc	22		
BASIC PLAYBACK	23		
Playing back a disc	23		
Playing back an Ultra HD Blu-ray™ disc	25		
Playing back a Blu-ray 3D™ disc	26		
Playing back content from a USB memory stick..	27		
Using the title / disc / pop menu.....	28		
SPECIAL PLAYBACK	29		
Fast forward / fast reverse.....	29		
Slow forward playback.....	29		
Frame by frame playback.....	29		
Repeat playback.....	30		
Shuffle / random playback	30		
Slide show.....	30		
PiP (BONUSVIEW™) setting.....	31		
Enjoying BD-Live™ discs using Internet.....	31		
Title / chapter search	32		
Track / file search	32		
Time search	33		
Number select search	33		
Switching subtitles.....	34		
Switching audio soundtrack.....	35		
Switching camera angles	36		
Noise reduction.....	36		
Closed caption	36		

1. INTRODUCTION

1.1. Safety instruction

Register online at www.philips.com/welcome today to get the most benefits 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. _____

PHILIPS

For fastest support visit us online at www.philips.com/support for chat and self service solutions.

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. To completely turn off the unit, you must unplug the mains (AC) power cord.

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.

PRODUCTO CON LASER CLASE 1

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 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.

In order to avoid interruption of ventilation, this unit should not be placed in built-in equipment such as a book cabinet, rack, etc., and the vents of this unit should not be covered with anything such as a tablecloth, curtain, newspaper, etc. Make sure to leave a space of 5.9 inches (15cm) or more around this apparatus.

When installing this unit in a temperate environment, avoid a place with rapid temperature changes.

This unit should not be used in a tropical environment as it has not been evaluated under such conditions.

No objects should be placed directly on or under this unit, especially lighted candles or other flaming objects.

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 picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between 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 USA 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 USA warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. P&F USA 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 USA will be adapted and published on the P&F USA 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.

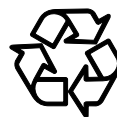
For further assistance

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

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 included 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. Included Accessories

- Quick Start Guide
- Remote control (NC277)
- Batteries (AAA, 1.5V x 2)
- HDMI cable

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) / Photo files / Music 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.

EasyLink (HDMI CEC)

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.

BD-Live™

BD-Live™ (BD-ROM version 2 Profile 2.0) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW™ function. The various functions differ depending on the disc.

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 [POP MENU]. Contents in the pop menu vary depending on the disc.

HDMI 24p output (Blu-ray Disc™ only)

This unit is equipped with the feature which can provide smooth movement during playback of film originated material with a 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 44.

Playing back contents from a USB memory stick

You can play back Photo files / Music 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. 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.

Enjoy content stored on home media servers

This unit allows you to play music files and view photo files stored on home media servers connected to your home network.

Auto Standby

20 minutes after the Screen Saver starts, this unit will be placed in standby mode.

2.2. Version information











“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”, then press [**OK**].
4. Use [**▲ / ▼**] to select “Version info”, then press [**OK**].

2.3. Symbols used in this owner’s manual

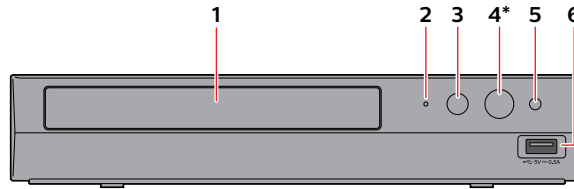
To specify which media type each function is applicable to, a combination of the symbols shown below will be depicted next to that function’s explanation.

Symbol	Description
	Description refers to Ultra HD Blu-ray
	Description refers to BD-Video
	Description refers to DVD-Video
	Description refers to DVD-RW/-R in VR mode
	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 Photo files.
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and USB memory stick with Music files.
	Description refers to music files on the Home Media Server.
	Description refers to photo files on the Home Media Server.

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

3. FUNCTIONAL OVERVIEW

3.1. Front panel



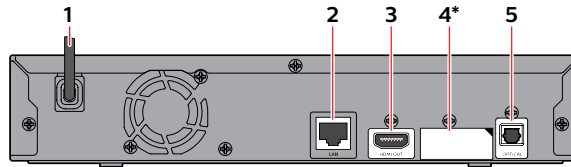
* The unit can also be turned on by pressing this button.

- | | |
|--------------------------|---------------------------|
| 1. Disc tray | 4. ⏻(POWER) button |
| 2. Power-on indicator | 5. Infrared sensor window |
| 3. ▲(OPEN/CLOSE) 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.

3.2. Rear panel



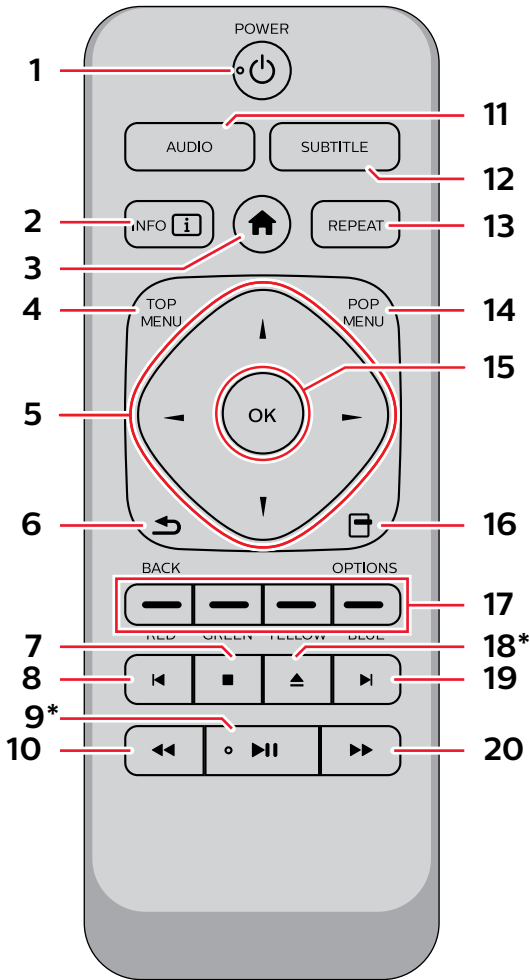
* Do not connect a TV to this HDMI port. This is only used for HDMI-compatible AV receiver / Amplifier. When connecting an AV device, remove the sticker and connect it to this HDMI port.

- | | |
|------------------|--------------------------|
| 1. AC power cord | 4. HDMI OUT (AUDIO) jack |
| 2. LAN terminal | 5. OPTICAL jack |
| 3. 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. **⏻(POWER) 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. **INFO button**
 - Press to display the information display.
3. **🏠(HOME) button**
 - Press to display the home menu.
4. **TOP MENU**
Ultra HD Blu-ray™, Blu-ray Disc™:
Press to display the top menu.
DVD: Press to display the title menu.
5. **▲ / ▼ / ◀ / ▶ buttons**
 - Press to select items or settings.
6. **BACK button**
 - Press to return to the previously displayed menu or screen function.
7. **■(STOP) button**
 - Press to stop playback.

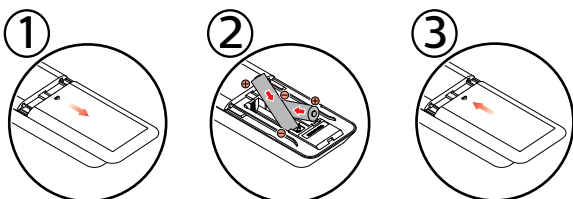
8. **◀◀(SKIP) button**
 - During playback, press once to return to the beginning of the current title, chapter, track or file.
 - During playback, press twice to return to the previous title, chapter, track or file.
 - During Photo playback, press to return to the previous File.
9. **▶▶(PLAY/PAUSE) button***
 - Press to start playback or resume playback.
 - Press to pause playback.
10. **◀◀(REVERSE) button**
 - During playback, press to fast reverse the playback.
11. **AUDIO button**
 - Press to select the audio channel (such as audio languages) on a disc.
12. **SUBTITLE button**
 - Press to select subtitles on a disc.
13. **REPEAT button**
 - Press to select repeat mode.
14. **POP MENU**
Blu-ray Disc™: Press to display the pop menu.
DVD: Press to display the disc menu.
15. **OK button**
 - Press to confirm or select menu items.
16. **OPTIONS button**
 - During playback, press to display the play menu.
17. **RED / GREEN / YELLOW / BLUE buttons**
 - Press to activate shortcut keys on some BD-video functions.
18. **▲(OPEN/CLOSE) button***
 - Press to open or close the disc tray.
19. **▶(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.
20. **▶▶(FORWARD) button**
 - During playback, press to fast forward the playback.
 - When playback is in pause, press to slow forward the playback.

Note

- Use the included remote control. Remote-control operation on any other remote control, such as a universal remote control, is not guaranteed.
- Make sure the component code on your universal remote control is set to our brand. Refer to the instruction book accompanying your remote control for more details.

■ 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 follow the guidelines below:

- 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:

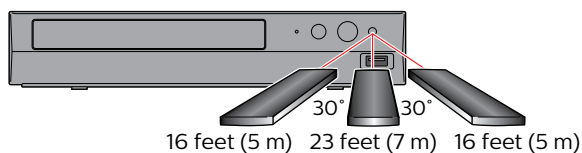
- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote controls of different devices can interfere with 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°



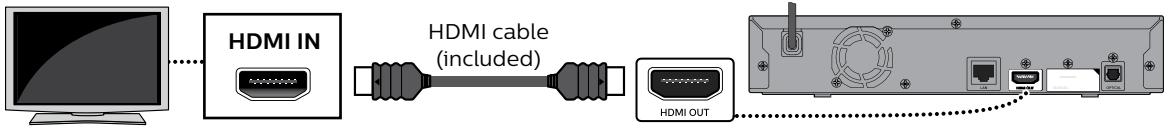
4. CONNECTIONS

- When you change the connections, all devices should be turned off.
- When making connections with external devices, please refer to their user manuals for additional setup help.

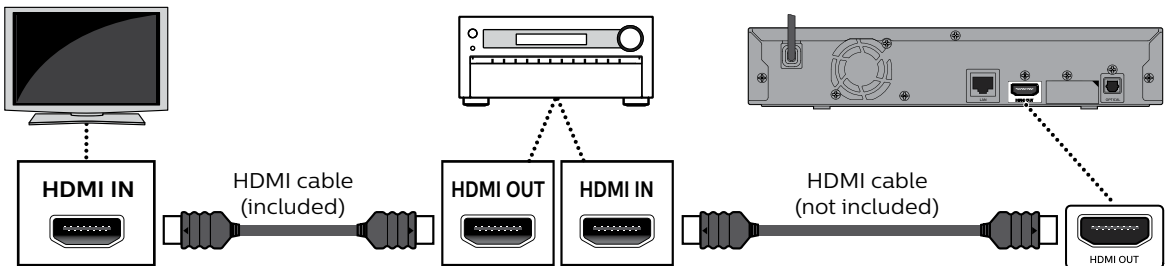
4.1. HDMI video /audio connection

(Supjacks up to 1080i, 1080p, 1080/24p, 4K resolution.)
No analog audio connection required.

■ Connecting with the HDMI OUT Jack only

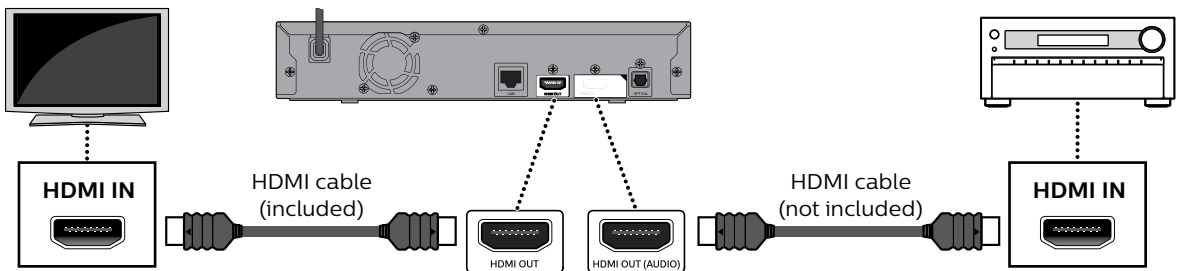


or



- With this connection, the HDMI OUT jack outputs both video and audio.
- In order for Ultra HD Blu-ray™ video playback to work with this connection, a 4K/HDR compatible AV receiver/amplifier and 18 Gbps high-speed HDMI cables are required.
- In order for Blu-ray 3D™ video playback to work with this connection, a 3D compatible AV receiver/amplifier and 3D compatible HDMI cables are required.

■ Connecting with the HDMI OUT and HDMI OUT (AUDIO) Jacks



- With this connection, the **HDMI OUT** jack only outputs video, and the **HDMI OUT (AUDIO)** jack only outputs audio.
- The EasyLink function is only available for the **HDMI OUT** jack.
- In order for Ultra HD Blu-ray™ content playback to work on this unit, a 4K/HDR compatible display device and AV receiver/amplifier must be connected to this unit. Otherwise, the audio will not be output.
- In order for 3D content playback to work on this unit, a 3D compatible display device and AV receiver/amplifier must be connected to this unit. Otherwise, the audio will not be output.

In order to play 4K/HDR content, this unit must be connected to a 4K/60p/4:4:4 and Ultra HD Blu-ray HDR compliant device.

- For 4K/60p/4:4:4, an 18Gbps high-speed HDMI cable is required.

Required TV specifications	Playback content		Recommended settings				Video Signals from the unit		
			HDMI resolution	HDMI color format	24p output	High Dynamic Range output	Output resolution	Frame rate / color space	Color depth
Up to 4K 60p 4:4:4	BD-Video	24p	Auto	YCbCr (4:4:4)	Auto	Auto	4K	24p/4:4:4	12 bit
		24p						24p/4:4:4	12 bit
	60p	60p/4:2:2						12 bit	
	Ultra HD Blu-ray	24p			Off			60p/4:2:2	12 bit
		24p						60p/4:2:2	12 bit
	60p	60p/4:2:2			12 bit				
Up to 4K 60p 4:2:0	BD-Video	24p	Auto	YCbCr (4:4:4)	Auto	Auto	4K	24p/4:4:4	8 bit
		24p						24p/4:2:2	12 bit
	60p	60p/4:2:0						8 bit	
	Ultra HD Blu-ray	24p			Off			60p/4:2:0	8 bit
		24p						60p/4:2:0	8 bit
	60p	60p/4:2:0			8 bit				
Up to 4K 24p/30p	BD-Video	24p	Auto	YCbCr (4:4:4)	Auto	Auto	4K	24p/4:4:4	8 bit
		24p						24p/4:4:4	8 bit
	60p	30p/4:4:4						8 bit	
	Ultra HD Blu-ray	24p			Off			30p/4:4:4	8 bit
		24p						30p/4:4:4	8 bit
	60p	30p/4:4:4			8 bit				

- Ultra HD Blu-ray content is created in 4K resolution.
- TVs supporting 4K60p are compatible with HDCP 2.2.
- For HDR content with 8-bit color depth, HDR output is not available.

Note

- If this unit is connected to an HDCP incompatible display device, video will not be displayed properly.
- Use a certified HDMI cable (an HDMI cable with the HDMI logo) for this connection. High-Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.
- In order for Ultra HD Blu-ray™ video playback, connect this unit to a 4K/HDR compatible display device using an 18 Gbps high-speed HDMI cable.
- In order for Blu-ray 3D™ video playback, connect this unit to a 3D compatible display device using a 3D compatible HDMI cable.
- Do not tilt the HDMI connector when inserting it into the HDMI port, and make sure the shapes of the HDMI port and the HDMI cable's connector match.



4.2. Audio output

Media	Source	HDMI audio			Digital audio		
		Bitstream	PCM	Re-encode	Bitstream	PCM	Re-encode
BD	Dolby Digital	Dolby Digital	2ch PCM	Dolby Digital	Dolby Digital	2ch PCM	Dolby Digital
	Dolby Digital Plus	Dolby Digital Plus	2ch PCM	Dolby Digital Plus(*1)	Dolby Digital	2ch PCM	Dolby Digital
	Dolby TrueHD	Dolby TrueHD	2ch PCM	Dolby TrueHD(*1)	Dolby Digital	2ch PCM	Dolby Digital
	DTS	DTS	2ch PCM	DTS	DTS	2ch PCM	DTS
	DTS-HD High Resolution	DTS-HD High Resolution	2ch PCM(*2)	DTS-HD High Resolution(*3)	DTS	2ch PCM	DTS
	DTS-HD Master Audio	DTS-HD Master Audio	2ch PCM(*2)	DTS-HD Master Audio(*3)	DTS	2ch PCM	DTS
	LPCM	Multi LPCM	Multi LPCM	Multi LPCM(*1)	2ch PCM	2ch PCM	2ch PCM(*1)
DVD	Dolby Digital	Dolby Digital	2ch PCM	Dolby Digital	Dolby Digital	2ch PCM	Dolby Digital
	DTS	DTS	2ch PCM	DTS	DTS	2ch PCM	DTS
	MPEG	Multi LPCM	Multi LPCM	Multi LPCM	2ch PCM	2ch PCM	2ch PCM
	PCM	Multi LPCM	Multi LPCM	Multi LPCM	2ch PCM	2ch PCM	2ch PCM
Audio CD	LPCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM
DTS-CD	DTS	DTS	2ch PCM	DTS	DTS	2ch PCM	DTS
AVCHD	Dolby Digital	Dolby Digital	2ch PCM	Dolby Digital	Dolby Digital	2ch PCM	Dolby Digital
	LPCM	Multi PCM	Multi PCM	Multi PCM	2ch PCM	2ch PCM	2ch PCM
Audio file	FLAC/WAV/Vorbis/AIFF/Monkey's Audio	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM

(*1) When there is the secondary audio and/or interactive audio, it will be output in Dolby Digital.

(*2) Only core substream will be decoded.

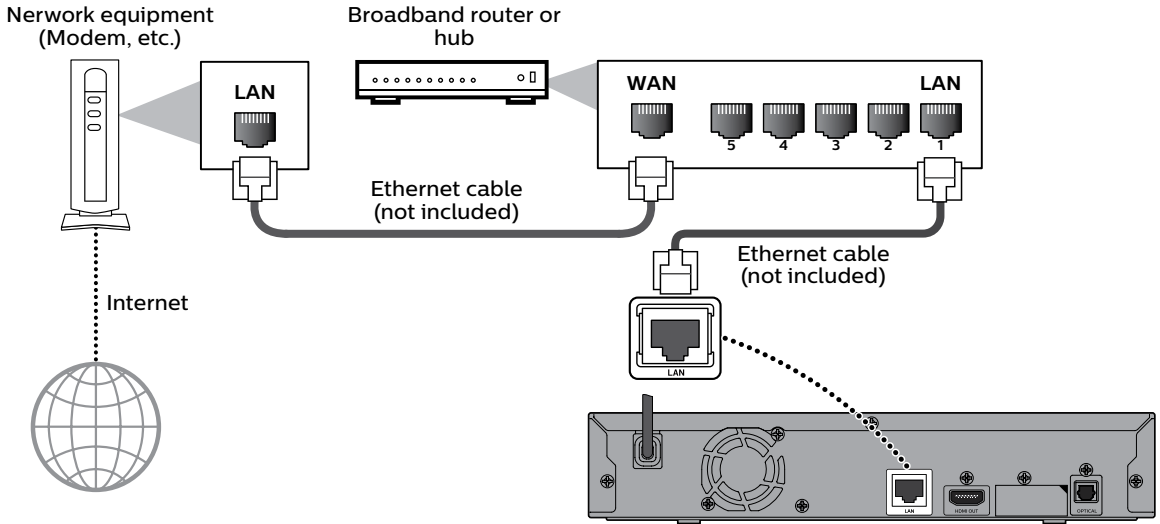
(*3) When there is the secondary audio and/or interactive audio, it will be output in DTS.

4.3. Connection to the network

By connecting this unit to the Internet, you can update software via the Internet and access BD-Live™.

- Software update: For more information, refer to “Software update” on page 46.
- BD-Live™: For more information, refer to “Enjoying BD-Live™ discs using Internet” on page 31.

■ Network Connection



⚠ Caution

- Do not insert any cable other than an ethernet cable to the LAN terminal to avoid damaging the unit.
- Do not connect your PC directly to the LAN terminal of this unit.

ⓘ Note

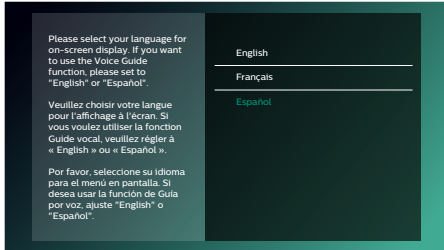
- When you connect an ethernet cable from a router with internet access to this unit, it will automatically configure network settings. (You do not need to manually configure network settings unless particular settings are required.)
- If your modem does not have router functions, connect a wired router.
- If your modem has router functions but there is no vacant port, add a switch / hub.
- Please purchase shielded ethernet cables at your local store and use them when you connect to network equipment.

5. BEFORE YOU START

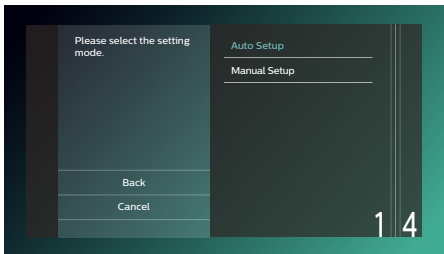
5.1. Initial setup

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

1. Press [**⏻(POWER)**] to turn on the unit.
2. Turn on your TV.
3. Language setup screen will appear. Use [**▲ / ▼**] to select your language, then press [**OK**].




4. Quick start setup screen will appear. Use [**▲ / ▼**] to select “On” or “Off”, then press [**OK**].
5. Auto software update setup screen will appear. Use [**▲ / ▼**] to select “On” or “Off”, then press [**OK**].
6. Home network setup screen will appear. Use [**▲ / ▼**] to select “Set up now” or “Skip”, then press [**OK**].
 - If you select “Set up now”, the network setup screen will appear. See step 7 below.
 - If you select “Skip”, the home menu screen will appear.
7. Network setup screen will appear. Use [**▲ / ▼**] to select “Auto setup” or “Manual setup”, then press [**OK**].



- If you select “Auto setup”, network setting will automatically be performed.
- If you select “Manual setup”, refer to step 6 - 13 in “Manual setup” on page 42.

■ 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 “Preferences” (English) / “Preferencias” (Spanish) / “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™ - Ultra HD Blu-ray™ - BD-video - Blu-ray 3D™ disc - Blu-ray 3D™ only disc - 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
JPEG / PNG / GIF / FLAC / WAV /Vorbis / AIFF / Monkey's Audio	BD-RE/-R DVD-RW/-R CD-RW/-R USB memory stick
Readable device	Playable files / data
USB memory stick	Photo files, music files, 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

Photo file

JPEG (.jpg/.jpeg)

PNG (.png)

GIF (.gif)

Music file

FLAC (.flac)

Sampling frequency: up to 192kHz
Bit rate: up to 16.2Mbps

WAV (.wav)

Sampling frequency: up to 192kHz
Bit rate: up to 36Mbps

Vorbis (.ogg)

Sampling frequency: up to 96kHz

AIFF (.aif)

Sampling frequency: up to 192kHz
Bit rate: up to 36Mbps

Monkey's Audio (.ape)

Sampling frequency: up to 192kHz
Bit rate: up to 1Mbps

Home Network - PCM

Sampling frequency: up to 44.1, 48 kHz

AVCHD

AVCHD (.m2ts)

AVCHD (.mts / .m2t)

ⓘ Note for AVCHD

- This unit cannot play back stand-alone AVCHD files 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.)

ⓘ Note

- Regardless of the file type, some files may be unplayable due to their incompatible file structure.

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.
- 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.
 - Readable cards: SD memory card (8 MB - 2 GB) SDHC memory card (4 GB - 32 GB)
miniSD memory card (16 MB - 2 GB) miniSDHC memory card (4 GB - 8 GB)
microSD memory card (256 MB - 2 GB) microSDHC memory card (4 GB - 16 GB)
 - Readable files: AVCHD / JPEG / PNG / GIF / FLAC / WAV / Vorbis / AIFF / Monkey's Audio
- Depending on a USB card reader, 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

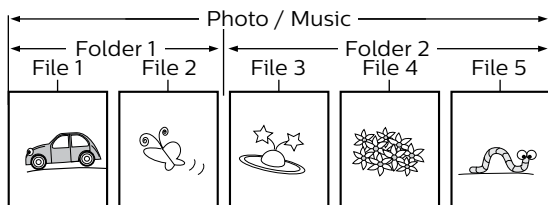
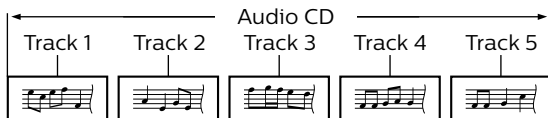
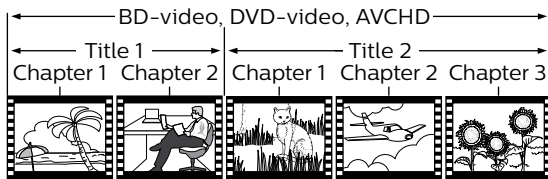


⊖ Note


- Ultra HD Blu-ray™ discs have no region codes.


■ 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

[] : AVCHD file icon

- "Folders" refers to the group of files.

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

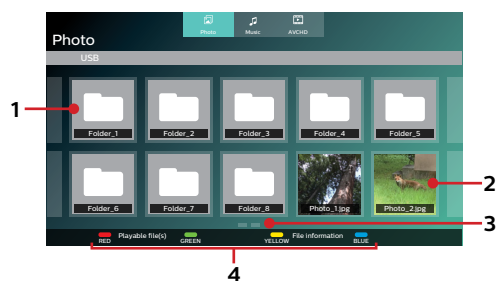
- "Files" refers to the contents on a disc which are recorded in AVCHD or JPEG / PNG / GIF / FLAC / WAV / Vorbis / AIFF / Monkey's Audio file format.

⊖ Note

- Unrecognizable characters will not be displayed.

6.2. Guide to file list

■ Photo file list



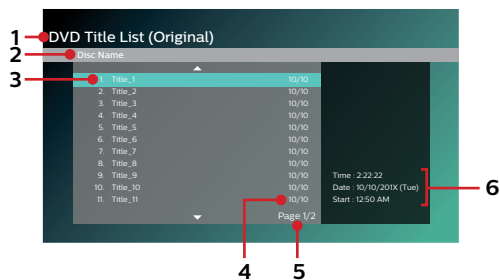
1. Folder
2. Photo thumbnail
3. Page(s)
4. Operation guide

■ Music file list



1. Music file
2. Summary information on the file (when available)
3. Cover art (when available)
4. Page(s)
5. Operation guide

■ DVD-VR title list



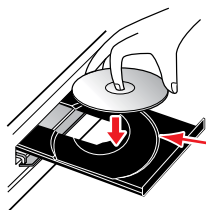
1. DVD title (Original or Playlist)
2. Disc name
3. Title
4. Recording date
5. Page
6. Recording length of the selected title / recording date / recording start time

■ How to navigate through the file list

- Use [**▲** / **▼** / **◀** / **▶**] to move the highlighted item. Press [**BACK**] to move back to the previous directory.
- If the list has multiple pages, you can switch pages using [**◀◀** / **▶▶** (SKIP)].
- To access Files in a folder, select the desired folder, then press [**OK**].
- 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

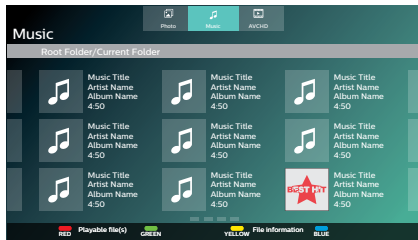
7.1. Playing back a disc



1. Insert a disc (refer to “How to insert a disc” on page 22).

- For Blu-ray Disc™ / DVD / AVCHD / audio CD or a disc containing only one type of file, playback will start automatically. If not, press **[▶II(PLAY/PAUSE)]**.
- When Photo / Music files are contained on the disc, the File List will be displayed.
- Some discs may show a title or a disc menu. In this case, refer to “Using the title / disc / pop menu” on page 28.
- “BD-ROM Data (USB) Check” message may be displayed while loading a Blu-ray Disc™. In such cases, connect a USB memory stick first, then insert the disc. Refer to “Enjoying BD-Live™ discs using Internet” on page 31.

(e.g.) File list: Music



- File list will be displayed.
2. Use **[▲ / ▼ / ◀ / ▶]** to select a media tab (Photo / Music / AVCHD), then press **[OK]**.
 3. Use **[▲ / ▼ / ◀ / ▶]** to select a file to play, then press **[OK]**.

- | | |
|--|----------------------------------|
| 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.

■ Resume-on-stop mode

Ultra HD Blu-ray Disc™ / Blu-ray Disc™ / DVD / DVD-VR / AVCHD

While the disc icon is selected on the home screen, pressing [OK] or [▶II(PLAY/PAUSE)] will resume playback. Pressing [OK] while the message "To playback from the beginning, press [OK]." is displayed will start playback from the beginning of the currently selected title.

Audio CD

While the disc icon is selected on the home screen, pressing [OK] or [▶II(PLAY/PAUSE)] will resume playback. Pressing [OK] while the message "To playback from the beginning, press [OK]." is displayed will start playback from the beginning of the first track on the Audio CD.

Music file

When you press [▶II(PLAY/PAUSE)] or [OK] 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 may not be available.
- For BD / DVD / AVCHD / Audio CD, except for photo files/Music files, resume-on-stop mode remains in effect even after power is turned off. It will be canceled once the disc is ejected.
- Discs containing AVCHD and photo/music files will be played back as AVCHD.
- CDs/DVDs containing FLAC (.flac) or WAV (.wav) files with high frequency and large quantization bit rates may not play properly.
- 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.

⊖ Note for photo playback

- For photo files except GIF files, every press of [◀ / ▶] will turn the image by 90 degrees when an image is displayed.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution photo files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.
- Interlaced GIF files over 7 Mb cannot be played back on this unit.

7.2. Playing back an Ultra HD Blu-ray™ disc



This unit can play back Ultra HD Blu-ray™ discs. In order to view Ultra HD Blu-ray™ videos, you need to have the following:

- **4K/60p (color space 4:4:4) and HDCP 2.2 compatible device.**
- **HDR compatible device**
- **18 Gbps high-speed HDMI cable**
- **Ultra HD Blu-ray™ disc**

1. Connect this unit to a 4K/60p (4:4:4) compatible TV using an 18 Gbps high-speed HDMI cable.
 - Refer to “HDMI video /audio connection” on page 13.
2. Insert an Ultra HD Blu-ray™ disc.
 - Refer to “How to insert a disc” on page 22.
3. Playback may 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 28.

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, and the background screen will appear.

■ Resume-on-stop mode

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

⊖ Note

- If this unit is connected to a non-HDCP 2.2 compatible device, HDR signals will be dynamically converted and output in 2K resolution. Some discs may not be played correctly.
- If this unit is connected to a non-4K/60p (color space 4:2:0) compatible device, and a 60p video is played, HDR signals will be dynamically converted and output.
- If this unit is connected to a non-4K/60p compatible device, HDR signals will be dynamically converted and output in 2K resolution.
- If this unit is connected to a non-HDR compatible device, HDR signals will be dynamically converted and output. Some discs may output images in 2K resolution or may not be played correctly.

7.3. Playing back a Blu-ray 3D™ disc



This unit can play back Blu-ray 3D™ discs which contain stereoscopic 3D video. In order to view Blu-ray 3D™ videos, you need to have the following:

- **3D capable TV**
- **3D compatible HDMI cable**
- **3D glasses**
- **Blu-ray 3D™ disc or Blu-ray 3D™ only disc**

1. **Connect this unit to a 3D-compatible TV using a 3D-compatible HDMI cable.**
 - Refer to “HDMI video /audio connection” on page 13.
2. **Insert a Blu-ray 3D™ disc or a Blu-ray 3D™ only disc.**
 - Refer to “How to insert a disc” on page 22.
3. **Playback may 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 28.

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, and the background screen will appear.

■ Resume-On-Stop mode

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

⚠ Caution

- Watching 3D videos may cause headache, dizziness or tiredness. To avoid such consequences, do not watch 3D videos for a long period of time.
- Watching 3D videos is not recommended for the following people:
 - People who are susceptible to motion sickness
 - Children from walking age to seven years
 - Pregnant woman

For more information, refer to “IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D TELEVISIONS” on page 57.

ⓘ Note

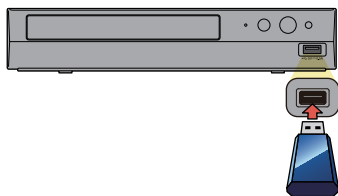
- For more information, refer to the 3D TV’s manual.
- When “3D BD-Video Playback” is set to “3D Playback” and your TV is not 3D capable, playback of Blu-ray 3D™ discs will revert to 2D depending on the disc.
- For some Blu-ray 3D™ only discs, playback in 2D mode is not possible.
- You can check the current output mode (2D or 3D) by pressing [INFO] during playback.

7.4. Playing back content from a USB memory stick



You can play back JPEG / PNG / GIF / FLAC / WAV / Vorbis / AIFF / Monkey's Audio files stored on a USB memory stick. With the USB memory stick, you can also enjoy the following functions.

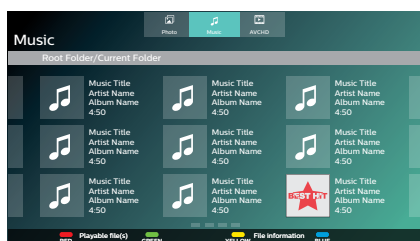
- Special additional contents for BD-ROM.
(For more information about the special additional contents, refer to the instruction book that came with the disc.)



1. Connect a USB memory stick.

- This unit will automatically recognize the content type in the media, and display the File list.

(e.g.) File List: Music



2. Use [▲ / ▼ / ◀ / ▶] to select a media tab (Photo / Music / AVCHD), then press [OK].

3. Use [▲ / ▼ / ◀ / ▶] to select a file to play, then press [OK].

⚠ Caution

- Do not disconnect the USB memory stick or switch the unit to standby mode while 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

- The resume information will be cleared when;
 - the USB memory stick is disconnected.
 - the unit is switched to standby mode.
- If a folder / file name contains an unrecognizable character, the character will not be displayed.
- This unit can read JPEG / PNG / GIF / FLAC / WAV / Vorbis / AIFF / Monkey's Audio files and AVCHD on an SD memory card by using a USB card reader.

7.5. 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 **[TOP MENU]** or **[POP 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 **[POP 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, DVD-VR, AVCHD, Audio CD, and music files, speed changes at 5 different levels.
- For Audio CD and music files, fast forward / fast reverse search between different tracks/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 4 different levels.
2. Press [▶II(PLAY/PAUSE)] to return to normal playback.

Note

- Slow reverse is not available.

8.3. Frame by frame 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

- Frame by frame 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 content in the media will be played back repeatedly.	     

4. Press [OPTIONS] to exit.







Note

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

8.5. Shuffle / random playback

Available shuffle and random functions vary depending on the disc.

1. During playback, press [OPTIONS] to display the play menu.
2. Use [▲ / ▼] to select “Mode”, then press [OK].
3. Use [▲ / ▼] to select the desired playback mode, then press [OK].

SHUFFLE / RANDOM MODE	AVAILABLE MEDIA
Shuffle playback Plays all songs or photo / music files in the current folder one at a time in Random order.	  
Random playback Plays all songs or photo / music files in the current folder repeatedly in random order.	  

4. Press [OPTIONS] to exit.

8.6. Slide show



1. Follow steps 1 and 2 in “Playing back a disc” on page 23.
2. Open the folder which contains the desired photo 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.
4. Press [■(STOP)] to stop playback.

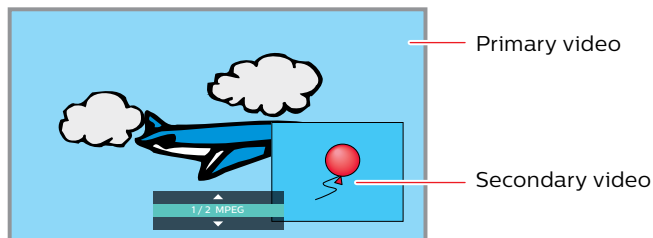
Note

- Large-size photo files take time to load before being displayed on the screen.

8.7. 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 secondary audio.
4. Press **[OPTIONS]** to exit.
 - To select the secondary audio output, refer to “Switching audio soundtrack” on page 35.

Note

- Secondary video may not be displayed all the time, depending on the scene, it may or may not be available for display.

8.8. Enjoying BD-Live™ discs using Internet



You can enjoy BD-Live™ which enables you to use interactive features when the unit is connected to the Internet.

Examples of BD-Live™ features:

- Online access to additional content such as movie trailers, subtitles, BD-Java applications, etc.
- While downloading, special video data may be played back.
 - Service and functions differ depending on the disc. Follow the instructions given by the disc when using the BD-Live™ function.
 - Connect a USB memory stick with at least 1 GB of available memory before using BD-Live™ features on a Blu-ray Disc™.
 - Do not disconnect the USB memory stick while using BD-Live™ features.

Note

- You must connect the unit to the Internet and set up necessary settings in order to use BD-Live™.
- For the network connection, refer to “Connection to the network” on page 16.
- For the network setup, refer to “Network connection” on page 41.
- For certain discs, “BD-Live access level” under “Network” under “Setup” may need to be changed.
- Depending on your connection environment, it may take a few moments to connect to the Internet or the Internet may not be connected. Refer to “TROUBLESHOOTING” on page 48.
- Some discs with BD-Live™ function require memory when playing back the content. If you cannot play back a disc with BD-Live™ function, connect a USB memory stick (1GB or more of available memory).
- Not all BD-Video discs have a BD-Live™ content. To enjoy the BD-Live™ features, please use discs with a BD-Live™ content.

Note for AACS online

- The player or disc ID may be sent to the content provider when playing back a disc with BD-Live™ function.
- If you save your viewing history on the server by using these ID's, you will be introduced to other similar movies.
- You can save game score histories.

8.9. 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 a 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 BD-video, how it performs is strongly determined by the disc, and may not perform as described.
- For DVD, title Search can be performed on the Home menu by pressing [OPTIONS] while in stop mode or resume-on-stop mode.

8.10. 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.

- For photo files, press [◀(SKIP)] once to go to the previous file.

■ Using “Search”

1. During playback, press [OPTIONS] to display the play menu.
2. Use [▲ / ▼] to select “Search”, then press [OK].
 - For Photo 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.

8.11. 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 Search, then press **[OK]**.
 - Blu-ray Disc™ / DVD-Video / AVCHD: “Title Time” or “Chapter Time”.
 - Audio CD: “Track Time” or “Disc Time”.(e.g.) Blu-ray Disc™



4. Enter the time count you want to jump to.
 - Use **[▲ / ▼ / ◀ / ▶]** to enter the time count, then press **[OK]**.Playback will start from the desired time entered.

8.12. 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 Select”, then press **[OK]**.
(e.g.) Blu-ray Disc™



- For BD-Java, a single-digit number select menu is displayed.
 - For DVD, a double-digit number select menu 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 to the digit you wish to change, press **[◀ / ▶]**.
 4. After all digits are entered, press **[OK]**.
Playback of the selected scene will start.

Note

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

8.13. 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.



■ Using [OPTIONS]

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, then press [OK].

(e.g.) Blu-ray Disc™



4. Press [OPTIONS] to exit.

■ Subtitle Style

For Blu-ray™ discs, the text style can be changed if subtitle style is available.

1. During playback, press [OPTIONS] to display the play menu.
2. Use [▲ / ▼] to select “Subtitle Style”, then press [OK].
3. Use [▲ / ▼] to select your desired style, then press [OK].
4. Press [OPTIONS] to exit.

⊖ Note

- Some discs will only allow you to change the subtitles from the disc menu or pop menu. Press [TOP MENU] or [POP MENU] to display the disc menu or pop menu.
- If the disc has no subtitle language or subtitle style, “X” will appear if you press [▲ / ▼].
- During playback of the secondary video, the primary subtitle setting is not available except when there is no subtitle for the secondary video.

8.14. 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 between them during playback.



■ Using [AUDIO]

1. During playback, press [AUDIO].
 - Pressing [AUDIO] repeatedly switches the audio.
(e.g.) Blu-ray Disc™



- For Blu-ray™ discs, [AUDIO] is only available in primary audio.

■ Using [OPTIONS]

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, then press [OK].
(e.g.) Blu-ray Disc™



4. Press [OPTIONS] to exit.

■ Secondary Audio

For Blu-ray™ discs, the audio in PiP can be switched. (Refer to “PiP (BONUSVIEW™) setting” on page 31.)


1. During playback, press [OPTIONS] to display the play menu.
2. Use [▲ / ▼] to select “Secondary Audio”, then press [OK].
3. Use [▲ / ▼] to select your desired audio, then press [OK].
4. Press [OPTIONS] to exit.

⊖ Note

- Secondary audio will not be output when secondary video is not displayed or when the HDMI setting for audio output is set to “Bitstream”. (For some Blu-ray™ discs, secondary audio will be output even when secondary video is off.)
- 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, “X” will appear if you press [▲ / ▼] or [AUDIO].


8.15. 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.
4. Press [OPTIONS] to exit.


Note

- If “Angle icon” setting is set to “Off”,  will not appear on the TV screen.

8.16. Noise reduction



Reduces the noise of the playback picture.

1. Use [▲ / ▼ / ◀ / ▶] to select “Setup” in the home menu, then press [OK].
2. Use [▲ / ▼] to select “Video”, then press [OK].
3. Use [▲ / ▼] to select “Noise reduction”, then press [OK].
4. Use [▲ / ▼] to select your desired setting, then press [OK].
5. Press [ (HOME)] to exit.

8.17. Closed caption



Closed Caption displays subtitles in synchronization with the video.

1. During playback, press [OPTIONS] to display the play menu.
2. Use [▲ / ▼] to select “CC Select”, then press [OK].
3. Use [▲ / ▼] to select your desired stream, then press [OK].
4. Press [OPTIONS] to exit.

Note

- Configure the closed caption display settings (font color, size, style, etc.) in the “Setup” → “Accessibility”. Refer to page 39-40.

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	3D output	Auto(**)	
		2D	
	TV display	4:3 Normal	
		4:3 Crop	
		16:9 Widescreen	
		16:9 Squeeze	
	HDMI video	Auto	1080i
		480p	1080p
		720p	4K
	24p output	Auto	
		Off	
	Color space	YCbCr(4:4:4)	
		YCbCr(4:2:2)	
		RGB	
High Dynamic Range output	Auto		
	SDR		
Noise reduction	Off		
	Low		
	Medium		
	High		
Audio	Night mode	Auto	
		On	
		Off	
	HDMI audio	Bitstream	
		LPCM	
		Re-encode	
		Off	
	Digital audio	Bitstream	
		LPCM	
		Re-encode	
		Off	
	PCM downsampling	48K	
96K			
192K			
Network	Network installation	Start	
		Connection Test	
	View network settings		
	BD-Live access level	Allow	
		Limited Allow	
Prohibit			

continued on next page

Category	Menus / Options		
Preferences	Menu language	Auto(XXX)	
		English	
		Français	
		Español	
	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	More
		Subtitle	Off
	Bulgarian		Japanese
	Chinese		Korean
	Czech		Norwegian
	Danish		Polish
	Dutch		Portuguese
	English		Romanian
	Finnish		Russian
	French		Slovak
	German		Spanish
	Greek		Swedish
	Hungarian		Turkish
	Icelandic		More
	Irish		
	Disc menu	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	More
		Parental controls	Off
	8 [Adult]		3 [PG]
	7 [NC-17]		2 [G]
6 [R]	1 [Kid Safe]		
5 [PGR]			

continued on next page

Category	Menus / Options		
Preferences	Change password		
	Screen saver	On	
		Off	
	Angle icon	On	
		Off	
	EasyLink	On	
		Off	
	One Touch Play	On	
		Off	
	One Touch Standby	On	
		Off	
	Advanced	Software update	
Automatically check for latest software		Disc	
		Network	
		USB	
Quick Start mode		On	
		Off	
Version info			
Restore default settings		Reset AV settings	
		Erase unit BD-ROM data	
		Erase USB BD-ROM data	
		Reset network settings	
Reset All settings			
OSS			
Accessibility	CC style		
	Auto		
	Custom		
	CC font color	Default	Blue
		White	Yellow
		Black	Magenta
		Red	Cyan
		Green	
	CC font size	Default	
		Standard	
		Small	
		Large	
	CC font style	Default	
		Monospaced with serifs	
		Proportionally spaced with serifs	
		Monospaced without serifs	
		Proportionally spaced without serifs	
		Casual	
	Cursive		
	Small capitals		
	CC font opacity	Solid	
Translucent			
Transparent			
CC font outline	Default	Uniform	
	None	Left drop shadowed	
	Raised	Right drop shadowed	
	Depressed		
CC font outline color	White	Blue	
	Black	Yellow	
	Red	Magenta	
	Green	Cyan	

continued on next page

Category	Menus / Options		
Accessibility	CC background color	Default	Blue
		White	Yellow
		Black	Magenta
		Red	Cyan
		Green	
	CC background opacity	Solid	
		Translucent	
		Transparent	
	CC window color	Default	Blue
		White	Yellow
		Black	Magenta
		Red	Cyan
		Green	
	CC window opacity	Solid	
		Translucent	
		Transparent	

Note

- There may be grayed-out (unselectable) items while the unit is in resume-on-stop mode. In order to configure these settings, exit resume-on-stop mode.

Unselectable items:

Video settings: All CC settings, TV display (when aspect ratio of the content cannot be changed)

Audio settings: All settings

Preferences: Audio/Subtitle/Disc menu/Parental controls/Change password

Advanced settings: Restore default setting

In order to configure these settings, exit resume-on-stop mode by pressing [**■(STOP)**] when the home menu screen is displayed.

10. SETUPS

10.1. Network connection

🏠(HOME) → “Setup” → “Network” → “Network installation”

Perform the network connection setup in order to use network features, such as BD-Live™ and the network update function.

■ Connection test

After you enable a network connection or change network settings, always perform the connection test to check to see if the connection is correctly made.

1. Use [▲ / ▼ / ◀ / ▶] to select “Setup” in the home menu, then press [OK].
2. Use [▲ / ▼] to select “Network”, then press [OK].
3. Use [▲ / ▼] to select “Network installation”, then press [OK].
4. Use [▲ / ▼] to select “Connection Test”, then press [OK].
 - Connection test will automatically start. The test result will appear right after the test finishes.
5. After the test results display, press [OK].

ⓘ Note

- If the connection test passes, you are ready to use BD-Live™ and the network update function, using the Internet without making any additional settings.
- If the connection test fails, you may need to check your router settings and make sure the physical connection is secure. If you need the MAC address of this unit to complete your router settings, you can view it in “View Network Setting”.
- When connecting this unit directly to a modem for the first time or connecting it to a modem which was previously connected to any other network device (e.g. a router, PC, etc.), you may have to power cycle the modem (unplug the modem’s and/or router’s AC Power cord from its AC outlet for 30 seconds and then plug it back in), this may reset the settings in the modem. If you have a telephone/internet modem with your cable service then you may have to use its reset button or remove the backup battery to reset this type of modem.
- If the connection test fails, this unit is not connected to the Internet. In this case, you cannot use the BD-Live™ and network update function. Please confirm router settings or contact your ISP (Internet Service Provider) for troubleshooting assistance.

■ Network configuration

Auto setup

In order to make a wired connection, connect an ethernet cable from a router with internet access. A network will automatically be established.

- In order to confirm that this unit is connected to the Internet, perform “Connection test” (refer to page 41).
1. Connect an ethernet cable from a router with internet access.
 2. Use [▲ / ▼ / ◀ / ▶] to select “Setup” in the home menu, then press [OK].
 3. Use [▲ / ▼] to select “Network”, then press [OK].
 4. Use [▲ / ▼] to select “Network installation”, then press [OK].
 5. Use [▲ / ▼] to select “Start”, then press [OK].
 6. Use [▲ / ▼] to select “Auto setup”, then press [OK].
 - Network setting will automatically be performed.

Manual setup

In the following cases, configure each setting as necessary.

- When connection test failed with auto setting.
 - When instructed by your Internet service provider to make specific settings in accordance with your Network environment.
1. Use [**▲** / **▼** / **◀** / **▶**] to select “Setup” in the home menu, then press [**OK**].
 2. Use [**▲** / **▼**] to select “Network”, then press [**OK**].
 3. Use [**▲** / **▼**] to select “Network installation”, then press [**OK**].
 4. Use [**▲** / **▼**] to select “Start”, then press [**OK**].
 5. Use [**▲** / **▼**] to select “Manual setup”, then press [**OK**].
 6. Use [**▲** / **▼**] to select the desired setting (IP Address / Subnet Mask / Default Gateway / Primary DNS / Secondary DNS), then press [**OK**].
 - The range of input numbers is between 0 and 255.
 - Use [**◀** / **▶**] to move between input fields. Use [**▲** / **▼**] changes the number by 1. If you want to exit this setting, press [**BACK**].
 7. When all items are entered, use [**▲** / **▼** / **◀** / **▶**] to select “Continue”, then press [**OK**].
 8. Use [**▲** / **▼**] to select “Yes” or “No” for proxy server, then press [**OK**].
 - If you use a proxy server, select “Yes” then press [**OK**] to go to the next step.
 - If you do not use a proxy server, select “No” then press [**OK**] to go to step 12.
 9. “Proxy Address” setting screen will appear. Enter a proxy address using the cursor buttons, the color keys, and [**OK**].
 10. Press [**RED**] to go to the “Proxy Port” setting screen.
 - If you Use [**▲** / **▼** / **◀** / **▶**] to select “Done” then press [**OK**] instead of [**RED**], you can go to the “Proxy Port” setting screen.
 11. Use [**▲** / **▼** / **◀** / **▶**] to change the proxy port number, then press [**OK**].
 12. Connection test confirmation screen will appear. Select “Yes”, then press [**OK**] to start the connection test. The test result will appear right after the connection test finishes.
 13. “Network connection succeeds.” will be displayed. Select “Finish”, then press [**OK**] to complete the settings.

Note

- Enter an IP address after checking the specifications of your router.
- If an IP address is unknown, check the IP address of other devices (e.g. PC connected with a LAN cable). Then, in the fourth cell to the right, assign a different number from those other devices.
- Enter the DNS addresses provided by your Internet service provider.
- If the DNS address is unknown, check the DNS address of other devices (e.g. PC connected via LAN cable) and assign the same DNS address.
- The range of input numbers for the port number is between 0 and 65535. (This number must be no greater than 65535.)
- For proxy port, certain ports might be closed, blocked or unusable depending on your network environment.

10.2. EasyLink (HDMI CEC)

🏠(HOME) → “Setup” → “Preferences” → “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:

- [▲(OPEN/CLOSE)], [▶II(PLAY/PAUSE)], [◀(SKIP)], [▶I(SKIP)], [🏠(HOME)] (on the remote control)
- [TOP MENU], [POP MENU] (on the remote control when the a disc is inserted in the unit)

■ One touch standby

This unit will automatically be turned off after the connected HDMI CEC compatible display device is turned off.

■ 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. Go to “Menu language” under “Preferences” on page 38 to see 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.

10.3. HDMI video resolution

🏠(HOME) → “Setup” → “Video” → “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”, “4K”.

Actual output resolution:

Setting in “HDMI video”	Source						
	720 x 480 (30i)	1280 x 720 (60p)	1920 x 1080 (30i)	1920 x 1080 (24p)	1920 x 1080 (60p)	3840 x 2160 (24p)	3840 x 2160 (60p)
Auto	The highest resolution supported by your display device will be in effect automatically.						
480p	720x480 (60p)	720x480 (60p)	720x480 (60p)	720x480 (60p)	720x480 (60p)	720x480 (60p)	720x480 (60p)
1080i	1920x1080 (60i)	1920x1080 (60i)	1920x1080 (60i)	1920x1080 (24p)	1920x1080 (60i)	1920x1080 (24p)	1920x1080 (60i)
1080p	1920x1080 (60p)	1920x1080 (60p)	1920x1080 (60p)	1920x1080 (24p)	1920x1080 (60p)	1920x1080 (24p)	1920x1080 (60p)
4K	3840x2160 (60p)	3840x2160 (60p)	3840x2160 (60p)	3840x2160 (24p)	3840x2160 (60p)	3840x2160 (24p)	3840x2160 (60p)

- The resolution listed in the above chart will be enabled on this unit when the “4K/60p Output” is set to “4K/60p(4:4:4)”, and the “24p output” is set to “Auto”.
- For AVCHD, outputting the video in 24 frames per second (1080/24p) is not available.

ⓘ Note

- The selected resolution must also be supported by your display device.
- Even if “HDMI Resolution” is set to “4K”, the video of a non-4K compatible Blu-ray Disc™ will be output in the video resolution that is specified by the disc and supported by the 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 BD-Video playback.
- When playing back a Frame Sequential 3D disc, video resolution of output picture will depend on contents on the disc. (“HDMI video” setting is not applicable for Frame Sequential 3D discs.)

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.

10.4. Parental controls

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

■ Change password

🏠(HOME) → "Setup" → "Preferences" → "Change password"

1. Use [▲ / ▼] to select "Setup" in the home menu, then press [OK].
2. Use [▲ / ▼] to select "Preferences", then press [OK].
3. Use [▲ / ▼] to select "Change password", then press [OK].
4. Enter your 4-digit password.
 - The default value is "0000".
 - Use [▲ / ▼] to enter the first digit of your Password, then press [▶].
 - When 4-digit numbers are entered, press [OK].
5. Set a new password.
 - Use [▲ / ▼] to enter numbers, then use [◀ / ▶] to move the input field. When 4-digit numbers are entered, press [OK].
 - Record your new password, in case you forget it.
6. Re-enter the same new 4-digit password in the same way as 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.

■ Rating level

🏠(HOME) → "Setup" → "Preferences" → "Parental controls"

1. Use [▲ / ▼ / ▶ / ◀] to select "Setup" in the home menu, then press [OK].
2. Use [▲ / ▼] to select "Preferences", then press [OK].
3. Use [▲ / ▼] to select "Parental controls", 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 controls" 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]	Content unsuitable for ages 17 and under is blocked.
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.

10.5. Software update

(HOME) → “Setup” → “Advanced” → “Software update”

This unit lets you update the software yourself using a software update disc or USB memory stick, or via the Internet.

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:

Navigate to 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. Insert the disc or connect the USB memory stick for software update.

- If a disc is inserted, the File List screen will appear. Press [(HOME)].
- After connecting a USB memory stick, wait 10–20 seconds, then move on to step 2.

2. Use [/ / /] to select “Setup” in the home menu, then press [OK].

3. Use [/] to select “Advanced”, then press [OK].

4. Use [/] to select “Software update”, then press [OK].

5. Use [/] to select “Disc” or “USB”, then press [OK].

- This unit now starts loading the update File, then Installs it. Update will take a while. Leave the unit until it automatically restarts.

6. After Updating finishes, this unit will restart automatically. Remove the disc or USB memory stick from this unit.

⚠ Caution

- Please do not unplug the AC power cord, eject the disc or disconnect the USB memory stick or press [(POWER)] to turn the unit to standby mode while performing a “Disc / USB update”.

ⓘ Note

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

■ Network update

You can update the software of this unit via the Internet if it is connected to the Internet.

1. Follow steps 2 to 4 in “Disc / USB memory stick update” on this page.

2. Use [/] to select “Network”, then press [OK].

- The unit will connect to the Server, then check for the latest software version.

3. Software version confirmation screen will appear. Press [OK].

- Downloading of the latest software will start. (Download may take some time.)
After completing the download, update will start.

4. After updating finishes, this unit will restart automatically.


⚠ Caution

- Please **Do Not Unplug** the AC Power cord, ethernet cable, modem / router, or press [(POWER)] to turn the unit to standby mode while using “Network Update”.

ⓘ Note

- In order to update the software via the Internet, you must connect the unit to the Internet and Set up necessary Settings.
- For the network connection, refer to “Connection to the network” on page 16.
- For the network setup, refer to “Network connection” on page 41.
- Software update will not change any of the current settings.

10.6. Restore default settings

 (HOME) → “Setup” → “Advanced” → “Restore default settings”

Menus to reset player settings.

1. Use [**▲** / **▼** / **◀** / **▶**] to select “Setup” in the home menu, then press [**OK**].
2. Use [**▲** / **▼**] to select “Advanced”, then press [**OK**].
3. Use [**▲** / **▼**] to select “Restore default settings”, then press [**OK**].
4. Use [**▲** / **▼**] to select the desired setting, then press [**OK**].

“Reset AV settings”:

All the settings except for “Parental controls” and “Network installation” settings will be reset to default.

“Erase unit BD-ROM data”:

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

“Erase USB BD-ROM data” (Only available when a USB memory stick is connected):

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

“Reset network settings”:

Resets the network installation Settings menu to the default.

“Reset All settings”

Resets this unit to its factory default settings.

5. Use [**◀** / **▶**] to select “OK”, then press [**OK**].
6. Confirmation message will appear. Press [**OK**] to complete the setting.

 **Caution**

- Do not remove the USB memory stick while executing “Erase USB BD-ROM data”. It will damage the USB memory stick.


 **Note**

- “Restore default settings” cannot be performed while a BD-V / DVD-V / AVCHD / Audio CD disc is inserted in this unit, and this unit is in resume-on-stop mode.
- Reset AV settings does not clear the password, the parental settings, or the network installation settings.
- Reset AV settings clears the BD-Live access level and the unit name settings. Also, each net app will be deactivated.
- Reset network settings only clears the network installation settings (connection settings).

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 53.
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 an 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 the “Audio” 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 46.
“BD-ROM Data(USB) Check” message appears when attempting to play a Blu-ray Disc™.	Connect a USB memory stick first, then insert the Blu-ray Disc™. – When this unit starts loading a Blu-ray Disc™, it will check the USB memory stick to which BD-Live™ contents will be saved.

continued on next page

Problem	Tip
A Music/Photo file does not play.	<p>Confirm that the file type is supported. Refer to page 19 for the compatible file extensions.</p> <p>The file may be corrupted. Check to see if it is playable on a PC or other devices.</p>
No return to start-up screen when disc is removed.	Soft reset this unit by turning it off for 30 seconds, then on again.
 will appear on the TV screen.	The operation is not possible.
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.	<p>Condensation? (Let the unit sit and dry for 1 or 2 hours)</p> <p>Check to see if the disc is compatible with this unit. (Refer to page 18.)</p> <p>Wipe dirt off the disc from the center to the outside or replace the disc. Refer to “Cleaning discs” on page 53.</p>
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 controls” menu.
Error message appears when I select “Auto” in the “Menu language”.	<p>Make sure that the unit is connected to a TV that is compatible with HDMI CEC and the “EasyLink” is set to “On”.</p> <p>This error message may appear when your TV's OSD language is not supported by this unit.</p>
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.	<p>The USB memory stick is not compatible with this unit or the contents may be damaged.</p> <p>Try and turn off the unit, then turn it back on.</p>
Cannot play back BD-Video.	<p>Connect a USB memory stick (256MB or more of available memory) which is formatted on this unit. Some discs require memory when playing back content.</p> <p>Do not disconnect the USB memory stick during playback.</p>
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.
Cannot read a USB memory stick.	The format of the USB memory stick is not compatible with this unit. If the USB memory stick has been formatted on a PC or another device, the file system may be incompatible with this unit. This unit supports the FAT16 / FAT32 file systems.
Cannot play back Photo files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format.
Cannot find a Photo file.	Make sure that the file extension is .jpg (.JPG) / .jpeg (.JPEG) / .png (.PNG) or .gif (.GIF) .
Cannot play back Music files from a disc.	<p>Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format.</p> <p>Confirm that the Bitrate and Sampling Frequency are compatible with this unit. (Refer to page 19)</p>
Cannot find a Music file.	Make sure that the file extension is either FLAC / WAV /Vorbis /AIFF / Monkey's Audio for Music files.

continued on next page

Problem	Tip
Music files play choppy.	CDs / DVDs containing FLAC (.flac) / WAV (.wav) files with high frequency and large quantization bit rates may not play properly. In such cases, copy the Music files to a Blu-ray Disc™ or USB memory stick, then try playing.
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.
Cannot connect to the Internet although the connection test passes.	Make sure that the ethernet cable is properly connected to the modem and router.
	Confirm that another device, such as a PC, can connect to the Internet.
Cannot connect to the Network.	Check to see if the modem and router have Power turned On.
	Make sure that the ethernet cable is properly connected to the modem and router.
	Confirm if the Internet light is showing activity (light blinking) on the modem and router.
	Check network settings on the unit.
	Turn Off this unit and the modem and router (if it has a power button), then unplug their AC cords. After 30 seconds, plug them back in and turn the devices back on. If you have a telephone / internet modem with your cable service, then you may have to use its reset button or remove the Backup battery to reset this type of modem. Now wait for the lights to show activity and try reconnecting.
	Check the cable connection to the router when connecting with an ethernet cable.
	Confirm “View network settings” in the setup.
	Turn on the DHCP function on the router.
Cannot connect to the Network while my PC is Connected to the Network.	Check the content of your Internet service contract to see if your Internet Service Provider prevents multiple terminals connecting at the same time.
You are not sure if the unit is Connected to the Internet.	Perform the connection test. (refer to page 41)
Cannot use the BD-Live™ function or Internet data does not download properly.	Confirm that this unit is successfully connected to the Internet.
	Confirm the BD-Live Connection setting in the setup.
	Connect a USB memory stick before inserting a disc. The USB memory stick must have 1GB or more free space.
	Confirm that the USB memory stick is properly connected to this unit. Make sure that the USB memory stick connected to this unit is not write-protected.

 **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 your Blu-ray Disc™ player model and serial number available before contacting us. These numbers are available on the cabinet, as well as on the packaging.

12. SPECIFICATIONS

General

Signal system	NTSC Color
Power requirements	120 V AC, 60 Hz
Power consumption	17 W (standby: 0.4 W)
Dimensions (width x height x depth)	10.3 x 2.1 x 8.2 inches
Weight	1.3 kg (2.9 lbs)
Operating temperature	41°F (5°C) to 95°F (35°C)
Operating humidity	Less than 80 % (no condensation)

Terminals

USB input

TYPE A

HDMI OUT port

HDMI jack Video: 480p, 720p, 1080i, 1080p, 1080p24
Audio Digital

HDMI OUT (Audio) port

HDMI jack Audio

LAN terminal 10BASE-T / 100BASE-TX

Note

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

13. NETWORK SERVICE DISCLAIMER

Content and services made available through this product are transmitted by third parties by means of networks and transmission facilities over which Company has no control and third party services may be terminated or interrupted at any time, and Company makes no representation or warranty that any content or service will remain available for any period of time. Without limiting the generality of this disclaimer, Company expressly disclaims any responsibility for any interruption or suspension of any content or service made available through this product. Company is not responsible for customer service related to the content and services. Any question or request for service relating to the content or services should be made directly to the respective content and service providers.

THIRD PARTY CONTENT AND SERVICES MADE AVAILABLE THROUGH THIS PRODUCT ARE PROVIDED "AS IS." COMPANY DOES NOT WARRANT CONTENT OR SERVICES SO PROVIDED, FOR ANY PURPOSE WHATSOEVER. COMPANY EXPRESSLY DISCLAIMS ANY WARRANTIES, EXPRESS OR IMPLIED INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ACCURACY, VALIDITY, TIMELINESS, LEGALITY, SUITABILITY, OR QUALITY OF ANY CONTENT OR SERVICE MADE AVAILABLE THROUGH THIS PRODUCT.

IN NO EVENT SHALL COMPANY BE LIABLE FOR, ANY DAMAGES, WHETHER ARISING IN CONTRACT OR TORT, INCLUDING WITHOUT LIMITATION, ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, LOST PROFITS, ATTORNEY FEES, EXPENSES, OR ANY OTHER DAMAGES ARISING OUT OF, OR IN CONNECTION WITH, ANY CONTENT (OR ANY INFORMATION CONTAINED THEREIN) OR SERVICE PROVIDED TO THE USER OR ANY THIRD PARTY, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

All content and services accessible through this product belong to third parties and are protected by copyright, patent, trademark and/or other intellectual property rights. Such content and services are provided solely for the User's personal noncommercial use. User may not use any content or services in a manner that has not been authorized by the content owner or service provider. Without limiting the foregoing, unless expressly authorized by the applicable content owner or service provider, you may not modify, copy, republish, upload, post, transmit, translate, sell, create derivative works, exploit, or distribute in any manner or medium any content or services made available through this product.

14. MAINTENANCE

■ Servicing

- Please refer to relevant topics in “TROUBLESHOOTING” on page 48 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: 1-866-515-1124 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 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 referred to relevant sections and “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.



⊖ Note

- Some cameras have an IR filter and will not display the IR signal.

15. TRADEMARK INFORMATION



“Blu-ray Disc™”, “Blu-ray” and “Blu-ray Disc™” logo are trademarks of the Blu-ray Disc Association.



“Ultra HD Blu-ray™” and “Ultra HD Blu-ray™” logo are trademarks of the Blu-ray Disc Association.



“BD-Live™” and “BD-Live™” logo are trademarks of the Blu-ray Disc Association.



“BONUSVIEW™” and “BONUSVIEW™” logo are trademarks of the Blu-ray Disc Association.



Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.



Java and all Java based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.



For DTS patents, see <http://patents.dts.com>.
Manufactured under license from DTS Licensing Limited.
DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS 2.0+Digital Out is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.




The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.



“x.v.Color” and “x.v.Color” logo are trademarks of Sony Corporation.



 is a trademark of DVD Format/Logo Licensing Corporation.



“AVCHD 3D/Progressive” and the “AVCHD 3D/Progressive” logo are trademarks of Panasonic Corporation and Sony Corporation.

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD (“AVC VIDEO”) AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L. L. C. SEE [HTTP://WWW.MPEGLA.COM](http://WWW.MPEGLA.COM)

THIS PRODUCT IS LICENSED UNDER THE VC-1 PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE VC-1 STANDARD (“VC-1 VIDEO”) AND/OR (ii) DECODE VC-1 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE VC-1 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE [HTTP://WWW.MPEGLA.COM](http://WWW.MPEGLA.COM)

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™

Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>

To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

This product incorporates proprietary technology under license from Verance Corporation and is protected by U.S. Patent 7,369,677 and other U.S. and worldwide patents issued and pending as well as copyright and trade secret protection for certain aspects of such technology.

Cinavia is a trademark of Verance Corporation. Copyright 2004-2017 Verance Corporation. All rights reserved by Verance. Reverse engineering or disassembly is prohibited.

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.

17. IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D TELEVISIONS

Read the following information before viewing 3D television images.

CAUTION NOTICE:

1. Ambient fluorescent lighting may cause a flickering effect and direct sunlight may adversely affect the operation of your 3D glasses.
2. DO NOT place your television near open stairwells, balconies or other objects as viewing in 3D images may cause disorientation for some viewers resulting in falls, tripping or walking into objects.
3. If you experience (1) altered vision; (2) lightheadedness; (3) dizziness; (4) involuntary movements such as eye or muscle twitching; (5) confusion; (6) nausea; (7) loss of awareness; (8) convulsions; (9) cramps; and/or (10) disorientation, immediately stop watching 3D images and consult your doctor.
4. Parents should regularly monitor their children concerning the above symptoms as children and teenagers may be more likely to experience these symptoms more frequently than adults. Watching 3D television is not recommended for children under the age of 6 as their visual system is not yet fully developed.
5. Prolonged viewing of 3D images might cause discomfort, dizziness, eye strain, headaches or disorientation.

WARNING NOTICE:

1. Some viewers may experience an epileptic seizure or stroke when exposed to certain flashing images or lights contained in certain television pictures or video games. If you or any of your family has a history of epilepsy or stroke, please consult your doctor before viewing 3D images.
2. DO NOT watch 3D television if you are pregnant, elderly, sleep-deprived, suffering from serious medical conditions, in poor physical condition or under the influence of alcohol.
3. Sitting too close to the screen for an extended period of time may damage your eyesight. The ideal distance should be at least three times the height of the TV screen and at the viewer's eyes level.
4. Wearing the 3D glasses for any reason other than viewing 3D television (as general spectacles, sunglasses, protective goggles, etc.) may physically harm you or weaken your eyesight.
5. If you experience any discomfort while viewing 3D images, stop and do not immediately engage in any potentially hazardous activity such as driving a car until your symptoms have disappeared. If your symptoms persist, do not resume watching 3D images without consulting your doctor.

POLIZA DE GARANTÍA

ESTA PÓLIZA ES GRATUITA

Este aparato ha sido cuidadosamente diseñado y se ha fabricado con los mejores materiales bajo un estricto control de calidad, garantizando su buen funcionamiento por los periodos establecidos según el aparato (ver lista en la parte inferior) **a partir de la entrega del aparato al consumidor.**

Esta póliza incluye la reparación o reposición gratuita de cualquier parte o componente que eventualmente fallase y la mano de obra necesaria para su reparación, así como los gastos de transportación razonablemente erogados dentro de nuestro centro de servicio, misma que se hará efectiva en cualquiera de nuestros centros de servicio autorizados en el país. Si su aparato llegase a requerir de nuestro servicio de garantía, acuda al centro de servicio más cercano a su domicilio, de tener alguna duda por favor llame a nuestro **CENTRO DE INFORMACIÓN AL CLIENTE LADA** sin costo en toda la república al **01 800 839 19 89** en donde con gusto le indicaremos el centro de servicio autorizado más cercano a su domicilio P&F MEXICANA S.A. de C.V. a través de sus centros de servicio autorizados **reparará y devolverá a usted su aparato en un plazo no mayor a 20 días hábiles** contados a partir de la fecha de ingreso, impresa en la orden de servicio de cualquiera de nuestros centros de servicio autorizados.

La garantía de esta póliza cubre cualquier desperfecto o daño eventualmente ocasionado por los trabajos de reparación y/o traslado del aparato en el interior de nuestros centros de servicio autorizados.

Esta póliza sólo tendrá validez, si está debidamente requisitada, sellada por la casa vendedora, en caso de extravío de esta póliza, podrá hacer efectiva su garantía con la presentación de su factura de compra.

ESTA PÓLIZA NO SE HARÁ EFECTIVA EN LOS SIGUIENTES CASOS:

- Cuando el aparato sea utilizado en condiciones distintas a las normales.
- Cuando el aparato no haya sido operado de acuerdo con el instructivo de uso que se le acompaña.
- Cuando la causa de la falla o mal funcionamiento sea consecuencia de una reparación inadecuada o alteración producida por personas no autorizadas por P&F MEXICANA S.A. de C.V.

PERIODOS DE GARANTÍA

12 meses. - Televisores, Reproductores de discos de video digital DVD, Reproductores de disco de video digital BLU-RAY, Barras de Sonido.

PHILIPS

MC -719 - ARCO - 2

P&F MEXICANA, S.A. de C.V.

Producto Importado y Comercializado por:

P&F Mexicana, S.A. de C.V.

Av. La Palma No.6, Col.San Fernando La Herradura

Huixquilucan, Edo.de. México. C.P.52787

Tel: 58 87 9736

Centro de información al Cliente

México D.F. y Área Metropolitana: **58 87 97 36**

Interior de la República: **01 800 839 19 89**

Horario: Lunes a Sábado de 10:00 a 18:00

e-mail: serviciophilips@pnfmex.com



MODELO _____ No. DE SERIE _____

La presente garantía contará a partir de: DÍA _____ MES _____ AÑO _____

En caso que en su producto presente alguna falla, acuda al centro de servicio más cercano su domicilio (según listado de talleres anexo)

y en caso de tener alguna duda o pregunta por favor llame a nuestro **Centro de información al Cliente**, en donde con gusto le atenderemos en todo lo relativo a :

- Servicio de sus aparatos Philips
- Asesoría en el manejo e instalación de su producto Philips
- Información de productos y Talleres Autorizados Philips
- Información en donde puede adquirir productos y accesorios Philips

Para hacer efectiva la garantía de su producto, es necesario presentar esta póliza debidamente requisitada o de lo contrario, presentar su factura de compra.

CENTROS DE SERVICIO AUTORIZADOS PHILIPS EN LAS PRINCIPALES CIUDADES

CIUDAD	LADA	TELÉFONO	CORREO ELECTRÓNICO
ACAPULCO, GRO	744	483-32-96	serproa@yahoo.com.mx
AGUASCALIENTES, AGS	449	915-51-81	jimsaele@hotmail.com
CAMPECHE, CAMP	981	816 25 75	oreza@hotmail.com
PLAYA DEL CARMEN, Q ROO	984	2 67 27 27 - 745 0678	servicioee@prodigy.net.mx
CD.VICTORIA,TAMPS	834	315-66-03 - 312-51-93	eeii_smiller@yahoo.com.mx
CUERNAVACA, MOR	777	313-00-49 - 313-90-92	centroserviciohertz@hotmail.com
LOS MOCHIS, SIN	668	8173099	electronica_morelos@hotmail.com
CULIACAN, SIN	667	716-51-45	reparaciones@prodigy.net.mx
GUADALAJARA, JAL	33	36-15-72-62 - 36-16-83-27	leecoml@hotmail.com
HERMOSILLO, SON	662	210-54-95 - 210-05-86	manuelw@prodigy.net.mx
MAZATLÁN, SIN	669	982-42-21	e_santel@hotmail.com
MÉRIDA, YUC	999	928-59-05	evia2@prodigy.net.mx
PACHUCA, HGO	771	714-15-81	zarateelc@hotmail.com
PUEBLA, PUE	222	248-97-74 - 574-22-71	centroelectronicopuebla@gmail.com
MÉXICO, D.F.ZONA ARAGÓN	55	57 94 06 34	philipservicio@hotmail.com
MÉXICO, D.F.ZONA NORTE	55	5371 1250	matriz@tecdata.com.mx
MÉXICO, D.F.ZONA ORIENTE	55	55 44 16 00	cselectromex@hotmail.com
MÉXICO, D.F.ZONA PONIENTE	55	58 12 44 12	serviciotv@prodigy.net.mx
MONTERREY, N.L	818	375-16-17 - 400-54-03	mcesa@prodigy.net.mx
MORELIA, MICH	443	312-03-17	multiservicios_profesionales_de_zamora@msn.com
OAXACA, OAX	951	516-47-37	elfrancistor@prodigy.net.mx
ORIZABA, VER	272	724 38 53	barreda_electronics@hotmail.com
POZA RICA, VER	782	824 47 82	sonydigital@prodigy.net.mx
QUERETARO, QRO	442	216-10-09	zenersaulphilips@yahoo.com.mx
SALTILLO, COAH	844	439 39 64	electronicadigital_07@hotmail.com
MEXICALI, B.C.N	686	561-98-08 - 561-98-18	bajaelectronics@aol.com
TOLUCA, EDO.MEX	722	384 1920	radioytv@hotmail.com
TUXTLA GUTIÉRREZ, CHIS	961	615 0872	ssshop_25@hotmail.com
CANCUN, QROO	998	892-32-63	nitsuga.electronics@gmail.com

Para mayor referencia de Talleres de Servicio Autorizados en otras ciudades comunicarse Ciudad de México y Área Metropolitana llamar **58 87 97 36** y lada sin costo del interior de la República Mexicana **01 800 839 19 89**. Este listado puede sufrir actualizaciones o modificaciones sin previo aviso, para mayor información favor de comunicarse a nuestro Centro de Información al Cliente en la Ciudad de México y Área Metropolitana llamar al **58 87 97 36** y lada sin costo del interior de la República Mexicana **01 800 839 19 89** en donde con gusto le indicaremos el centro de servicio más cercano a su domicilio.



P&F Mexicana, S.A. de C.V.
Av. La Palma No. 6, Col. San Fernando La Herradura.
Huixquilucan, Edo. de México. C.P. 52787

The Philips trademark and the Philips Shield Emblem
are registered trademarks of Koninklijke Philips N.V.
used under license.

EGD21ML
★★★★★