Register your product and get support at
www.philips.com/welcome

HTS3051BV/F7
HTS3051BV/F8

EN	User manual
FR	Manuel de l'Utilisateur
ES	Manual del usuario

EN: 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 1-866-309-0866
- To obtain assistance in Mexico, contact Philips Customer Care Center at 01 800 504 62 00

FR: Pour obtenir de l'aide supplémentaire, communiquez avec le centre de service à la clientèle de votre pays.
- Pour obtenir de l'aide aux États-Unis, au Canada, à Puerto Rico ou aux Îles Vierges américaines, communiquez avec le centre de service à la clientèle Philips au : 1-866-309-0866
- Pour obtenir l'aide au Mexique, entrez en contact avec le centre de soin de client de Philips à 01 800 504 62 00

ES: Para obtener más información, llame al servicio de soporte al cliente de su país.
- Para obtener asistencia en los Estados Unidos, en Canadá, Puerto Rico o en las Islas Vírgenes de los Estados Unidos, comuníquese con Centro de atención al cliente de Philips al 1-866-309-0866
- Solo para Mexico CENTRO DE ATENCIÓN A CLIENTES LADA. 01 800 504 62 00 Solo Para México.

PHILIPS

PRECAUTIONS

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

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

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*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.

PHILIPS

Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

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

Know these
safety *symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

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

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

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

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

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

Model No. _____

Serial No. _____

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.

FCC WARNING
This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This Class B digital apparatus complies with Canadian ICES-003.

Disconnect the mains plug to shut off when find trouble or not in use. The mains plug shall remain readily operable.

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 employs a laser. Only a qualified service person should remove the cover or attempt to service this apparatus, due to possible eye injury.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION: Laser radiation when open. Do not stare into beam.
LOCATION: Inside, near the BD mechanism.

PRECAUTIONS

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.

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

This apparatus should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. Make sure to leave a space of 7.8 inches (20cm) or more around this apparatus.

To Avoid the Hazards of Electrical Shock and Fire

- Do not handle the AC power cord with wet hands.
- Do not pull on the AC power cord when disconnecting it from an AC outlet. Grasp it by the plug.
- Do not put your fingers or objects into the unit.

Location and Handling

- Do not install the unit in direct sunlight, near strong magnetic fields, or in a place subject to dust or strong vibration.
- Avoid a place with drastic temperature changes.
- Install the unit in a horizontal and stable position. Do not place anything directly on top or bottom of the unit. Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Dew Condensation Warning

- Dew condensation may form inside the unit in the following conditions. If so, do not use this unit at least for a few hours until its inside gets dry.
  - The unit is moved from a cold place to a warm place.
  - Under conditions of high humidity.
  - After heating a cold room.

Notice for Progressive Scan Output

- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525(480) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p(480p) BD/DVD player, please contact our customer service center.

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Maintenance

Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on page 56 before returning the product.
- If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you. For online reference, please visit our web site at http://www.philips.com/welcome

Cleaning the Cabinet

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

Cleaning Discs

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

Cleaning the Disc Lens

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

Disc Handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.
- Note that discs with special shapes (heart-shaped discs, octagonal discs, etc.) cannot be played back on this unit. Do not attempt to play such discs, as they may damage the unit.

Notice

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics 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 neither for any errors in the content of this document nor 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 operation expressly prohibited in this manual, any adjustments, or assembly procedures not recommended or authorized 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. Complete and return your Product Registration Card at once, or register online at www.philips.com/welcome to ensure :

Proof of Purchase
Returning the enclosed card guarantees that your date of purchase is on file, so no additional paperwork is required from you to obtain warranty service.

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 1-866-309-0866

Environmental Care

The packaging of this product is intended to be recycled. Contact your local authorities for information about how to recycle the packaging.

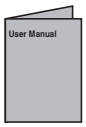
End of life directives

Philips pays a lot of attention to produce environment-friendly products in green focal areas. Your new Blu-ray Disc Home Theater System contains materials which can be recycled and reused. At the end of its life, specialized companies can dismantle the discarded Home Theater System to concentrate the reusable materials and to minimize the amount of materials to be disposed of. Please ensure you dispose of your old Home Theater System according to local regulations.

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

Supplied Accessories

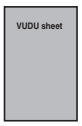
- Remote Control
- Batteries (AAA, 1.5V x 2)



User Manual

Quick Start Guide

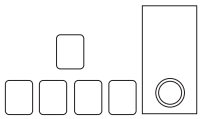
Registration card



VUDU sheet

RCA video cable

FM wire antenna



1 center, 2 front, 2 rear speakers and 1 subwoofer

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VUDU™ is a trademark of VUDU, Inc.

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DVD is a trademark of DVD Format/Logo Licensing Corporation.

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FEATURES

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

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 BDs which support Java applications, you can enjoy the 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 SD card ensures that you can continue to enjoy your current audio-video collection. Additionally, you can view JPEG digital pictures or listen to MP3 or Windows Media™ Audio music files.

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

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

Easy and simple connection to your HDTV via HDMI
Connect your HTS3051BV to your HDTV with one single HDMI (High Definition Multimedia Interface) cable. Philips recommends HDMI1.3 (category 2) cable (also known as High Speed HDMI cable) for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get excellent picture and sound quality, completely free from noise.
Thanks to other multiple outputs, you can also easily connect to your home theater system or amplifier.

About EasyLink (HDMI CEC) (Consumer Electronics Control)
EasyLink (HDMI CEC) allows you to operate the linked functions of this home theater system with Philips brand TV with EasyLink feature.
Philips does not guarantee 100 % interoperability with other brands of HDMI CEC compliant 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 **[MODE]** whenever the scene contains the 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-up menu
Some BD-videos have a pop-up 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-up menu by pressing **[DISC MENU / POP-UP MENU]**. Contents in the pop-up menu vary depending on the disc.

HDMI Deep Color
Deep Color reduces posterization effect of the playback image. Refer to "HDMI Deep Color" in the "LIST OF SETTINGS" on page 40.

HDMI 1080p/24 output (BD only)
This unit is equipped with the feature which can provide smooth movement during playback of film originated material with the frame rate of 24 frames per second with progressive. (Available only when the display device is connected by an HDMI cable.) Refer to "HDMI 1080p/24" in the "LIST OF SETTINGS" on page 40.

Playing back contents from an SD Memory Card
You can play back MP3 / WMA / JPEGs stored in an SD Memory Card. BD-ROM Profile 2.0 (BD-Live) and Profile 1.1 discs sometimes store picture-in-picture commentary, subtitles or other extras in the SD Memory Card for use during playback with the BD-video.

VUDU
This unit supports VUDU which is the leading HD on-demand video service. With VUDU, you can also enjoy various kinds of Internet applications. In order to use this feature, you must connect this unit to the Internet.

Product Info

"Product Info" screen provides information about this unit's hardware and software version.
You can also download the latest software from the Philips web site and upgrade 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 "Product Info" screen.
To access "Product Info", select "Product Info" in the home menu.

Symbols Used in this User Manual

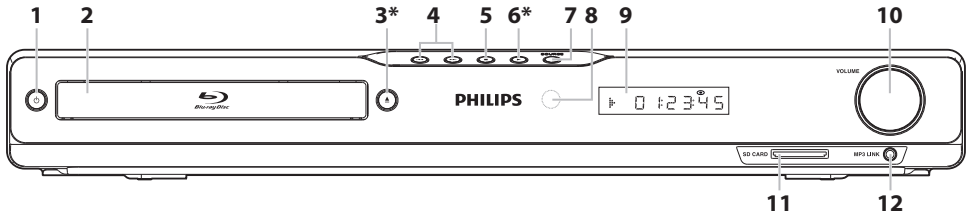
To specify which media type each function is applicable to, we put the following symbols at the beginning of each item to operate.

Symbol	Description
BD VIDEO	Description refers to BD-video
DVD VIDEO	Description refers to DVD-video
CD	Description refers to audio CD / DTS-CD
MP3	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with MP3 files
WINDOWS MEDIA AUDIO	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with Windows Media™ Audio files
JPEG	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD card with JPEG files

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

FUNCTIONAL OVERVIEW

Front Panel

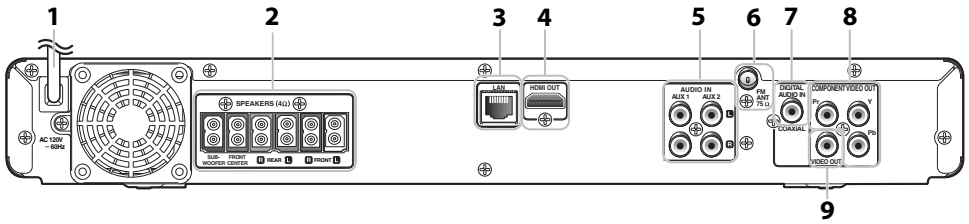


* The unit can also be turned on by pressing these buttons.

1. **⏻ (standby/on) button**
   - Press to turn on the unit, or to turn the unit into the standby mode. (To completely turn off the unit, you must unplug the AC power cord.)
   - Press and hold for 10 seconds to shut down the unit.
   - This button lights up in red when the unit is in standby mode and turns off when the power is on.
2. **Disc tray**
   - Place a disc after opening the disc tray.
3. **⏏ (open/close) button***
   - Press to open or close the disc tray.
4. **⏮ / ⏭ (previous / next) button**
   - Press to skip to the previous or next title / chapter / track.
5. **■ (stop) button**
   - Press to stop playback.
6. **► (play) button***
   - Press to start or resume playback.
7. **SOURCE button**
   - Press to switch the active source mode.
8. **Infrared sensor window**
   - Receive signals from your remote control so that you can control the unit from a distance.
9. **Display**
   - Refer to "Front Panel Display" on page 14.
10. **VOLUME jog**
    - Rotate to adjust the volume.
11. **SD CARD slot**
    - Insert an SD Memory Card and play back the contents in it.
12. **MP3 LINK jack**
    - Use to connect your portable audio player with 3.5mm stereo audio cable.

> ***Note***
> - This unit will be turned into the standby mode automatically after 25 minutes of no action.

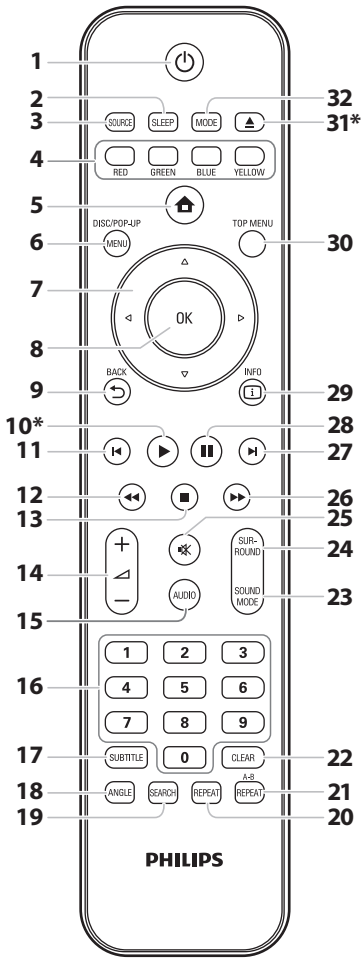
Rear Panel



1. **AC power cord**
   - Connect to a standard AC outlet to supply power to this unit.
   - Unplug this cord from the AC outlet to completely turn off the unit.
2. **5.1ch Audio Out jacks (SPEAKERS (4Ω))**
   - Use to connect supplied 5.1ch speakers.
3. **LAN terminal**
   - Use to connect a telecommunications equipment with LAN cable.
4. **HDMI OUT jack**
   - Use to connect to a display with an HDMI compatible port with an HDMI cable.
5. **AUDIO IN (AUX1 / AUX2) jacks**
   - Use to connect an other device with audio out jack with an RCA audio cable.
6. **FM ANT 75Ω jack**
   - Use to connect the supplied FM wire antenna.
7. **DIGITAL AUDIO IN (COAXIAL) jack**
   - Use to connect an other device with a digital audio coaxial output jack with a digital audio coaxial cable.
8. **COMPONENT VIDEO OUT jacks**
   - Use to connect a TV monitor with component video inputs with an RCA component video cable.
9. **VIDEO OUT jack**
   - Use to connect a TV monitor, an AV receiver / amplifier or other device with an RCA video cable.

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

Remote Control



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

1. **⏻ (standby/on) button**
   - Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord.)
2. **SLEEP button**
   - Press to set the sleep timer.
3. **SOURCE button**
   - Press to switch the active source mode; Home Menu (Disc / SD card), "Aux1", "Aux2", "Coaxial", "MP3 Link" or "FM".
4. **RED / GREEN / BLUE / YELLOW button**
   - Press to activate short cut keys on some BD-video function.
   - When file list / setup list is shown, press to switch between pages.
5. **⌂ (home) button**
   - Press to display the home menu.
6. **DISC MENU / POP-UP MENU button**

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

   DVD:
   - Press to display the disc menu.
7. **▲ / ▼ / ◀ / ▶ buttons**

   DISC:
   - Press to select items or settings.

   RADIO:
   - Press up or down to tune the radio frequency.
   - Press left or right to start auto search.
8. **OK button**
   - Press to confirm or select menu items.
9. **BACK ⮌ button**
   - Press to return to the previously displayed menu or screen function.
10. **▶ (play) button***
    - Press to start playback or resume playback.
11. **⏮ (previous) button**
    - During playback, press once to return to the beginning of the current title, chapter, track or file.
    - During playback, press twice to return to the previous title, chapter, track or file.
    - During the JPEG playback, press to return to the previous file.
12. **◀◀ (reverse) button**
    - During playback, press to fast reverse the playback.
13. **■ (stop) button**
    - Press to stop playback.
14. **◿ + / − (volume) button**
    - Press to adjust the volume.
15. **AUDIO button**

    DISC:
    - Press to select the audio channel (such as audio languages).

    RADIO:
    - Press to switch between stereo and mono mode.
16. **Number buttons**
    - Press to select a chapter during playback.
    - Press to enter values in the input field.
17. **SUBTITLE button**
    - Press to select subtitles on a disc.
18. **ANGLE button**
    - Press to select camera angles on a disc.
    - Press to rotate a picture (JPEG).
19. **SEARCH button**
    - Press to display the search menu.
20. **REPEAT button**
    - Press to toggle between various repeat modes.
21. **REPEAT A-B button**
    - Press to play back a defined section between point A and B repeatedly.
22. **CLEAR button**

    DISC:
    - Press to clear the information once entered.

    RADIO:
    - Press to erase the selected preset station.
23. **SOUND MODE button**
    - Press to select a sound effect mode.

24. SURROUND button
- Press to select surround mode.

25. 🔇 (mute) button
- Press to mute the volume.

26. ▶▶ (forward) button
- During playback, press to fast forward the playback.
- When playback is in pause, press to slow forward the playback.

27. ▶| (next) button
- During playback, press to skip to the next chapter, track or file.

28. ❚❚ (pause) button
- Press to pause playback.
- When playback is in pause mode, press repeatedly to forward the playback step by step.

29. INFO ⓘ button
- Press to display the information display.

30. TOP MENU button

BD:
- Press to display the top menu.

DVD:
- Press to display the title menu.

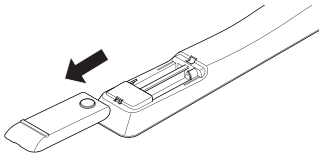
31. ⏏ (open/close) button*
- Press to open or close the disc tray.

32. MODE button
- During BD playback, press to switch the picture-in-picture feature on/off (only applicable to BD-video which supports the PiP(BONUSVIEW) function).

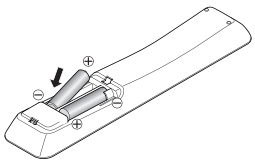
Installing the Batteries in the Remote Control

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

1) Open the cover.

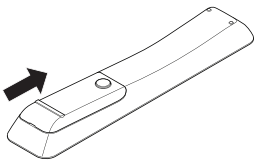


2) Insert batteries.



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

3) Close the cover.

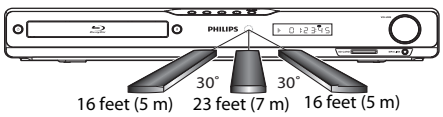


Note

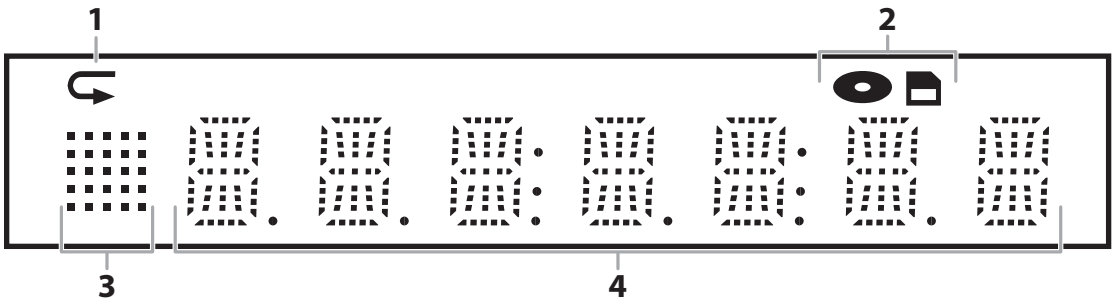
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:
- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that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

Using a Remote Control

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 control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
  - **Line of sight:** approx. 23 feet (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°



Front Panel Display



* Brightness of the display can be adjusted. Refer to "Front Panel Brightness" in "LIST OF SETTINGS" on page 42.

1. **Displays repeat icon. (Appears during repeat playback.)**
2. **Displays media mode icon (disc mode or SD card mode).**
3. **Displays playback status icon. Refer to table A below.**
4. **Displays source mode status (refer to table B below) or information such as title number, elapsed playing time, repeat type, menu type, etc.**

<Table A>

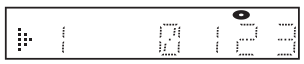
Playback status icon	Mode
	Playback is in progress
	Stop mode
	Pause mode
	Fast forward mode Tuning radio station (in FM mode)
	Fast reverse mode Tuning radio station (in FM mode)
	Slow forward mode

<Table B>

• When switching the source mode, the following will be displayed.

Display	Mode
HOME	Disc / SD card mode
AUX 1	"Aux1" mode
AUX 2	"Aux2" mode
COAX IN	"Coaxial" mode
MP3LINK	"MP3 Link" mode
FM 1050	"FM" mode (Frequency of radio station will be displayed.)

e.g.)

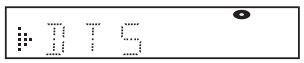


Disc is being played back.
Indicating the current title number and the elapsed time.

Current chapter is in chapter repeat mode during playback of disc.

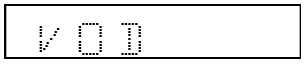
Loading a disc.

Dolby Digital audio is being played back during playback of disc.



DTS audio is being played back during playback of disc.

Home menu is displayed and the unit is in disc mode.

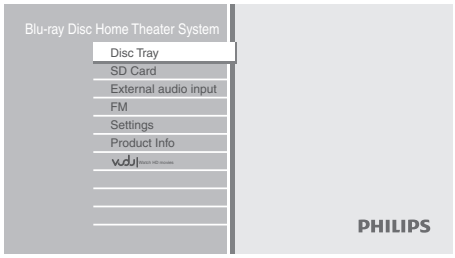


Loading VUDU.

Guide to On-Screen Display

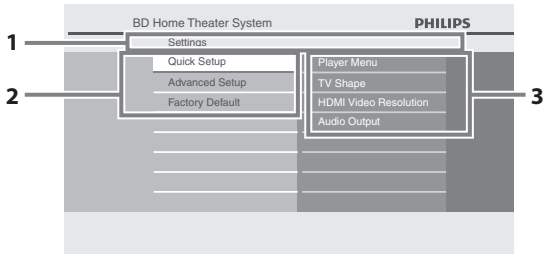
Home Menu

When you turn on the unit, home menu will appear automatically. Otherwise, press **[⌂ (home)]**.



"Disc Tray"	:	To access the track / file list or media filter screen
"SD Card"	:	To access the file list or media filter screen
"External audio input"	:	To access the selection menu of external audio input
"FM"	:	To access the menu screen of FM radio
"Settings"	:	To access the settings menus
"Product Info"	:	To access the product information
"vudu"	:	To access the VUDU App Home screen

Menu Screen

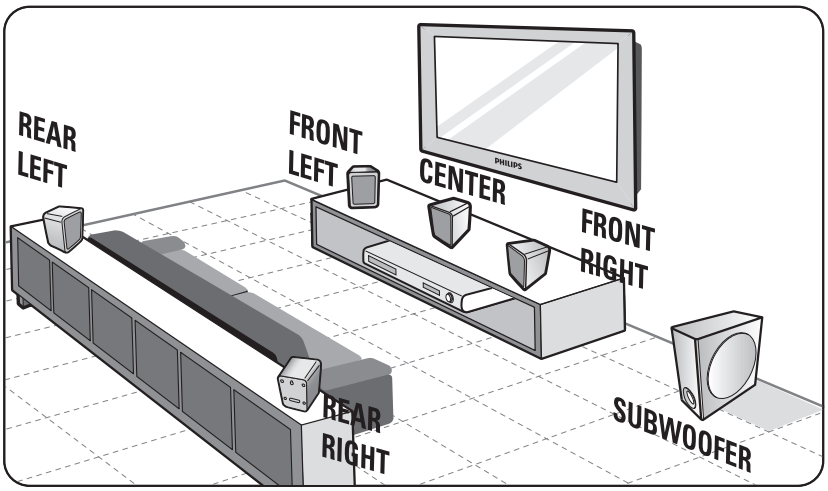


1. **Directory**
   Displays the current hierarchy.
2. **Menus**
3. **Options**
   Displays options for the highlighted item on the left whenever available.

CONNECTIONS

Placing the Speakers

The Philips Blu-ray Disc Home Theater is simple to install. However, proper system placement is critical to ensure an optimum sound experience.



1) Place the main unit near to the TV.
2) Place the speakers system at normal listening ear-level and directly parallel to the listening area.
3) Place the subwoofer at the corner of the room or at least 1 meter away from the TV.

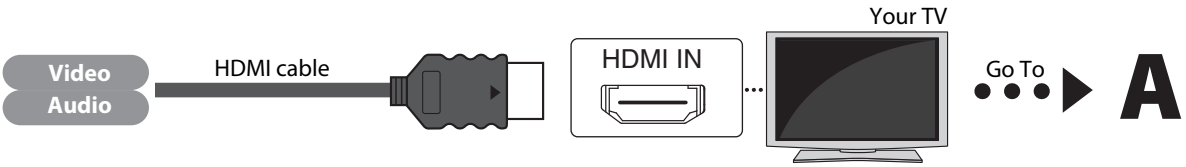
Note

- The placement diagram shown here is only a guideline that provides great system performance. You may find other placement choices that are more suitable for your room layout that provide the sound experience you enjoy.
- To avoid magnetic interference, never position the front speakers too close to your TV.
- The rear speakers are labeled as REAR LEFT or REAR RIGHT.
- The front speakers are labeled as FRONT LEFT or FRONT RIGHT.
- For speaker setup, refer to "Speaker Setup" on page 41.

Connection to the TV

1 **Choose the appropriate connection, then proceed to the corresponding instruction (A, B or C) on the pages 17-18.**

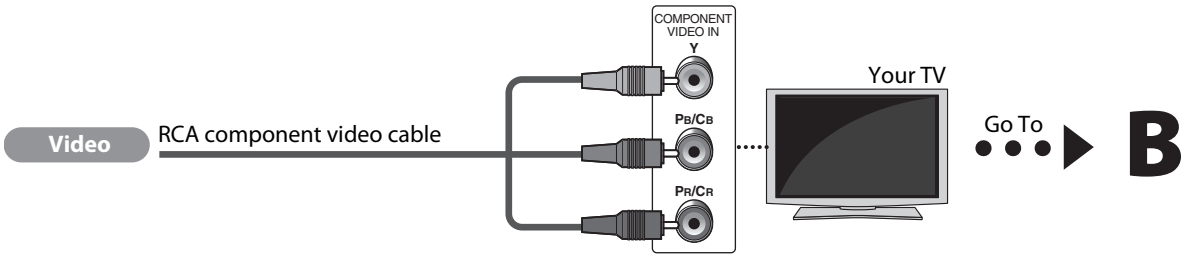
Best **(Supports up to 1080i(*1), 1080p(*2), 1080p/24 resolution.)**



(*1) 1080i : Outputs the video data with frame rate of 30 frames per second.
(*2) 1080p : Outputs the video data with frame rate of 60 frames per second.

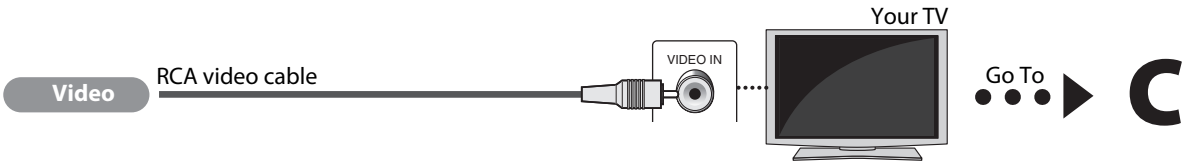
No supplied cables are used in this connection:
Please purchase the necessary cables at your local store.
Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection.
High Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.

Better (Supports up to 1080i resolution.)



No supplied cables are used in this connection:
Please purchase the necessary cables at your local store.

Basic (Supports only 480i resolution.)



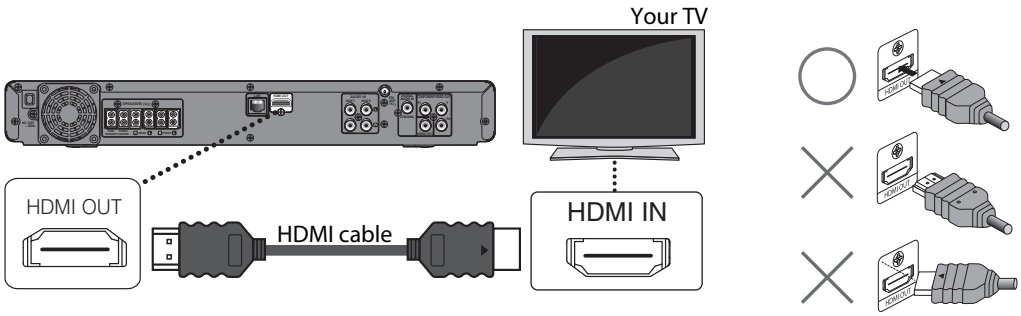
- Connect this unit directly to the TV. If the RCA video cables are connected to a VCR, pictures may be distorted due to the copy right protection system.

Supplied cables used in this connection are as follows:
- RCA video cable x 1

2 Connect the cables by following the descriptions below.

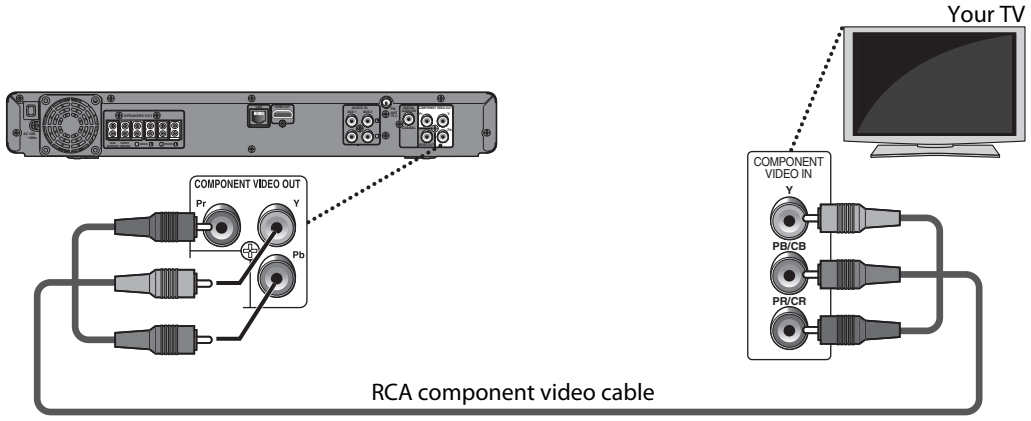
HDMI Connection

A



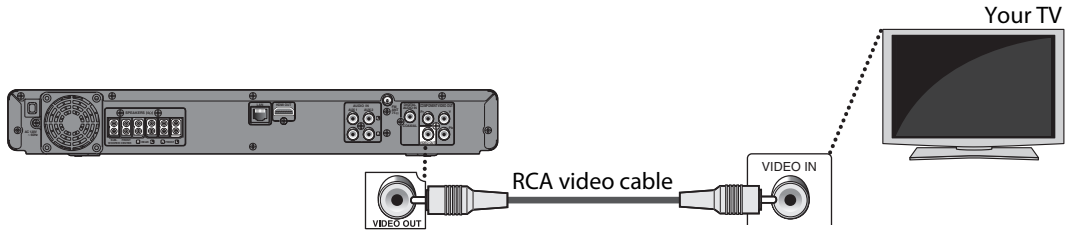
Component Video Connection

B



Standard Video Connection

C



HDMI Mode and Actual Output Signals

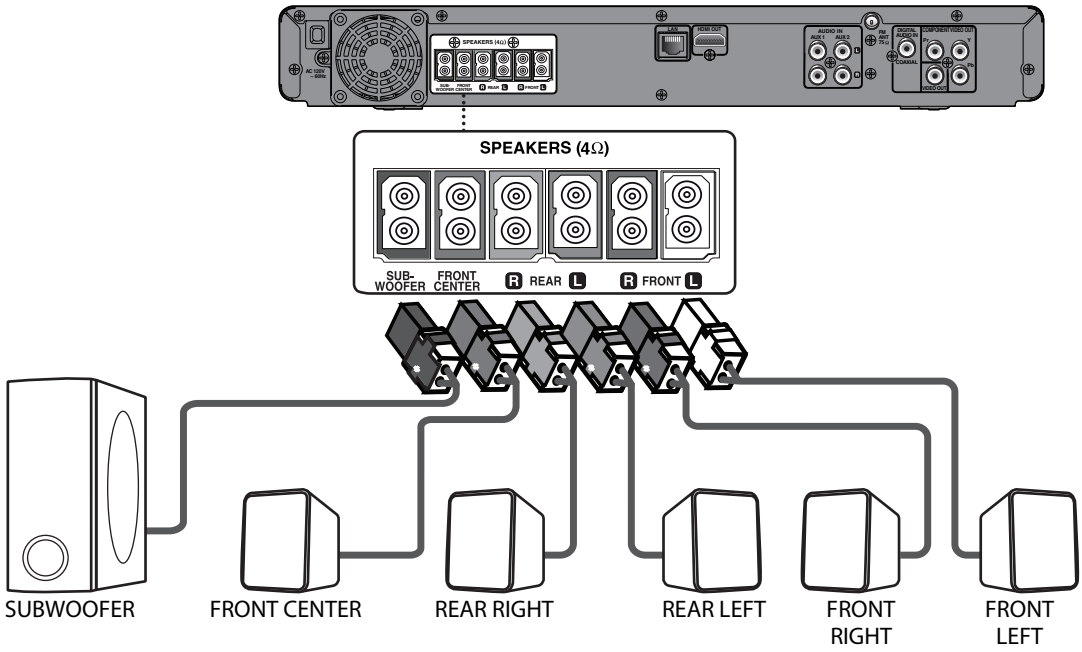
You can change the resolution of the video signal being output from the HDMI OUT jack in the settings menu.
For details, refer to "HDMI Video Resolution" on page 45.

Copyright protection system
To play back the digital video images of a BD-video or DVD-video via an HDMI connection, it is necessary that both the player and the display device (or an AV receiver / amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or AV receiver / amplifier) for more information.

Note

- When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- To output the audio signals from the HDMI OUT jack, set "Audio Output" to "HDMI Normal" or "HDMI LPCM" in the settings menu. (refer to page 41.)
- The audio signals from the HDMI OUT jack (including the sampling frequency, the number of channels and bit length) may be limited by the device that is connected.
- Among the display device(s) 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.

Connecting Speakers and Subwoofer



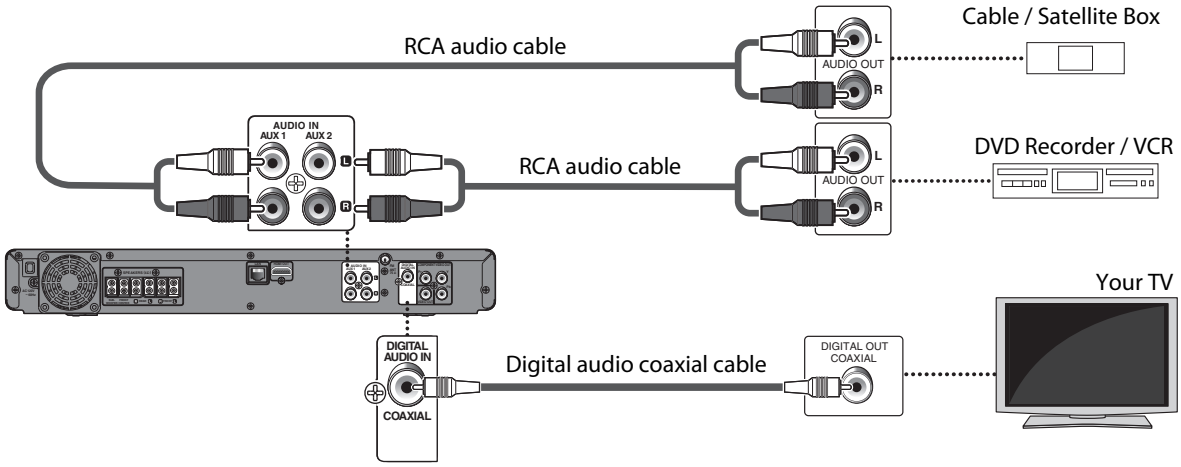
1) Connect the speaker cables to the matching color sockets on the speakers.
2) Connect all the speakers and subwoofer to the matching sockets at the rear of the main unit. Make sure that the colors of the cables and sockets are matched.

Note

- To prevent unwanted noise, never place the speakers too close to the main unit, subwoofer, AC power adapter, TV or any other radiation sources.

Connecting Audio from Cable Box / Recorder / Game Console or TV

- This unit provides analog and digital audio connection. You can connect the audio output from an audio / video device (e.g. DVD Recorder, VCR, Cable / Satellite Box, game console or TV) to this Blu-ray Disc Home Theater in order to enjoy the multi-channel surround sound capabilities.



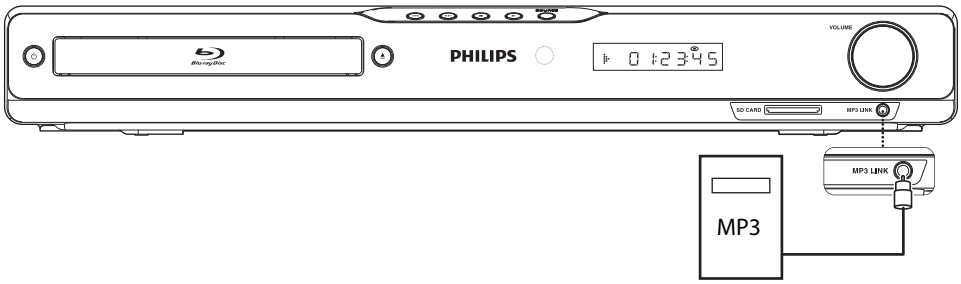
- Use an RCA audio cable (not supplied) to connect the AUDIO IN (AUX1 / AUX2) jacks on the main unit to the AUDIO OUT jacks on the connected device.
- Use a digital audio coaxial cable (not supplied) to connect the DIGITAL AUDIO IN (COAXIAL) jack on the main unit to the DIGITAL OUT (COAXIAL) jack on the connected device.

No supplied cables are used in this connection:
Please purchase the necessary cables at your local store.

Note

- To listen to the audio output from these connections, select “Speakers” in “Audio Output” (refer to page 41) and change the active source mode to the connected input. (Refer to “Switching Active Source Mode” on page 55.)

Connecting Portable Media Player



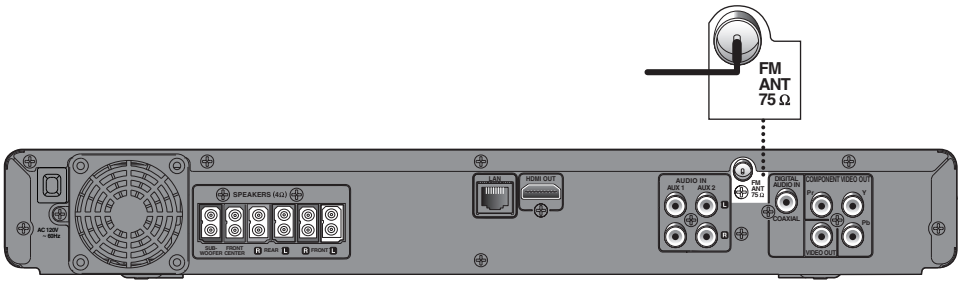
Connect a 3.5mm stereo audio cable(not supplied) to the MP3 LINK jack on this unit and the headphone jack on your portable media player.

No supplied cables are used in this connection:
Please purchase the necessary cables at your local store.

Note

- To playback the audio from your portable media player, refer to "Play from Portable Media Player" on page 36.

Connecting FM Radio Antenna



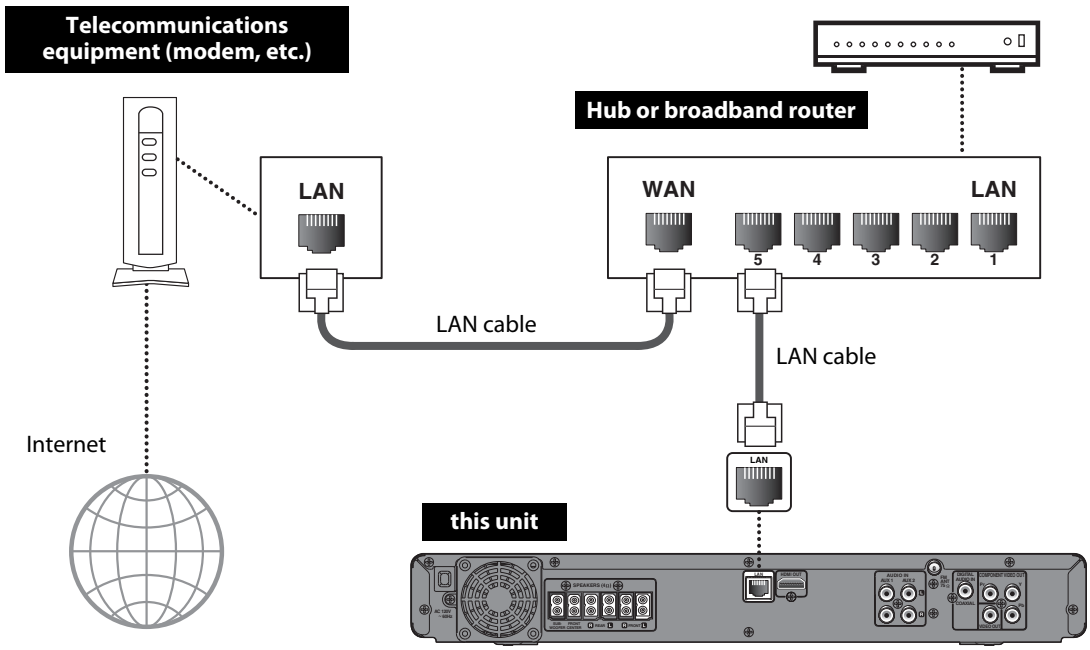
1) Connect the supplied FM wire antenna to the FM ANT 75Ω jack on this unit.
2) Extend the FM antenna and fix its ends to the wall for optimum reception.

Note

- For better FM stereo reception, connect an external FM antenna (not supplied).
- Place the antenna away from your TV, VCR or other radiation source to prevent any unwanted interference.
- For FM radio playback, refer to "Radio Operations" on page 36.

Network Connection with LAN

- By connecting this unit to the Internet, you can access VUDU services and applications, BD-Live features on a Blu-ray Disc and perform network upgrade.



No supplied cables are used in this connection:
Please purchase the necessary cables at your local store.

Note

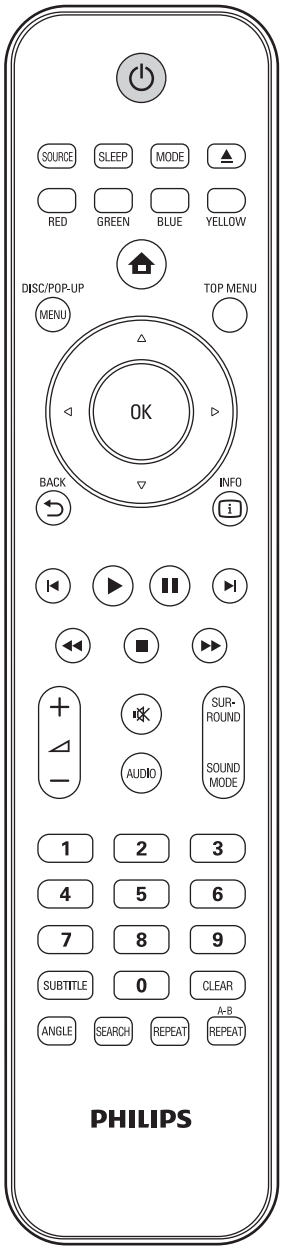
- After connecting a LAN cable, set up necessary network settings. (For the network setup, refer to "Network Connection" on page 49.)
- For more information about software upgrade, refer to "Network Upgrade" on page 53.
- For more information about BD-Live, refer to "Enjoying BD-Live Discs with Internet" on page 33.
- For more information about VUDU, refer to "VUDU Operations" on page 37.
- Do not insert any cable other than a LAN cable to the LAN terminal to avoid damaging the unit.
- If your telecommunications equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
- If your telecommunications equipment (modem, etc.) has broadband router functions but there is no vacant port, use a hub.
- For a broadband router, use a router which supports 10BASE-T / 100BASE-TX.
- Do not connect your PC directly to the LAN terminal of this unit.
- Please purchase shielded LAN cables at your local store and use them when you connect to network equipment.

BEFORE YOU START

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

EN

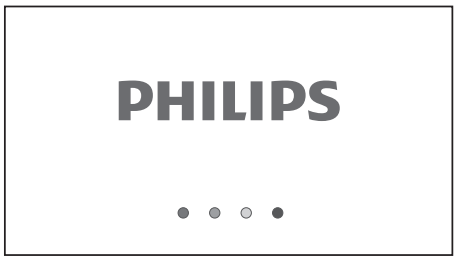
Finding the Viewing Channel on Your TV



1 **After you have made all the necessary connections, press [⏻ (standby/on)] to turn on the unit.**

2 **Turn on your TV.**

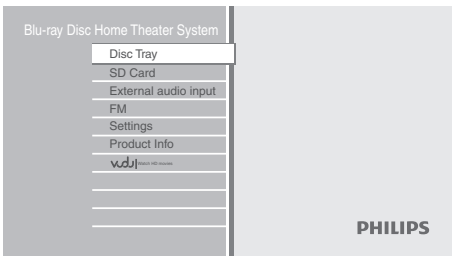
3 **Press the button on the TV's remote control that accesses the external input channel. It may be labeled "SOURCE", "AV" or "SELECT" (refer to your TV's user manual). Or press "2" on the TV's remote control, then press channel down button repeatedly until you see the PHILIPS splash screen.**



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

- If a certain amount of time has passed since you turned on the unit, you may see the home menu instead of the PHILIPS splash screen.

Home menu:



INFORMATION ON PLAYBACK

Information on Playback

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

Playable Discs and Files

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

Playable discs	Logos
Blu-ray Disc - BD-video - BD-RE* (ver. 2.1) (Recorded in BDMV format) - BD-R* (ver. 1.1 / 1.2 / 1.3) (Recorded in BDMV format) (Unclosed discs may not be played back.)	Blu-ray Disc
DVD-video	DVD VIDEO
DVD-RW (finalized video mode discs only)	DVD RW
DVD-R (finalized video mode discs only)	DVD R
CD-DA (audio CD)	COMPACT disc DIGITAL AUDIO
CD-RW	COMPACT disc DIGITAL AUDIO ReWritable / COMPACT disc ReWritable
CD-R	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc Recordable
KODAK Picture CD	Kodak Picture CD COMPATIBLE
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.

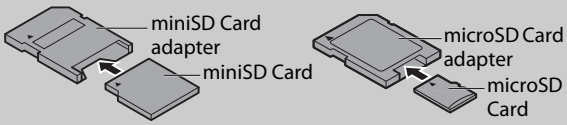
Playable files	Media
MP3	BD-RE/-R DVD-RW/-R CD-RW/-R SD Memory Card (including SDHC) miniSD Card microSD Card
Windows Media™ Audio	
JPEG	

- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Readable cards	Playable files / data
SD Memory Card (8 MB - 2 GB)	MP3, WMA, JPEG, picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0 / Profile 1.1)
SDHC Memory Card (4 GB - 8 GB)	
miniSD Card (8 MB - 2 GB)	
microSD Card (8 MB - 2 GB)	

Note for SD Memory Cards

- This unit supports SD Memory Card with FAT12 / FAT16 file system, and SDHC Memory Card with FAT32 file system.
- This unit does not support NTFS file system.
- This unit may not read SD Memory Cards formatted on a computer. If that is the case, please reformat the SD Memory Cards in this unit and try again.
- This unit does not support miniSDHC and microSDHC Memory Card.
- For miniSD Card and microSD Card, an adapter is necessary.



- Portions of this product are protected under copyright law and are provided under license by ARIS / SOLANA / 4C.
- Please keep the SD Memory Cards in their cases when you are not using them.
- Do not try to open or modify the card.
- Do not touch the terminal surface with your fingers or any metals.
- Do not attach additional labels or stickers to cards.
- Do not remove the label of the SD Memory Cards.
- This unit recognizes up to 8 characters of file name in the SD Memory Card. Characters after 8th will not be displayed.

Unplayable Discs and Files

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

- CD-ROM
- CD-I (compact disc-interactive)
- DVD-RAM
- VSD (video single disc)
- DVD-audio
- video CD
- HD DVD
- SVCD
- unfinalized disc
- BD-RE (ver.1.0)
- BD-RE (ver.2.1) (Recorded in BDAV format)
- BD-R (ver.1.1 / 1.2 / 1.3) (Recorded in BDAV format)
- BD / DVD / CD / SD Memory Card contains DivX® files
- BD / DVD hybrid disc (played back as a BD-video only)
- Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.
- Playability of dual discs are not guaranteed.

Color Systems

BD-video and DVD-video are recorded in different color systems throughout the world. The most common color system is NTSC (which is used primarily in the United States and Canada).
This unit employs NTSC color system, so the disc you play back must be recorded in the NTSC system. You cannot play back the disc recorded in other color systems.

Region Codes

This unit has been designed to play back BD-video with region "A", DVD-video with region "ALL" or "1" for HTS3051BV/F7 (USA / Canada) and region "ALL" or "4" for HTS3051BV/F8 (Mexico). You cannot play back BD-video or DVD-video that are labeled for other regions. Look for the symbols on the right on your BD-video or DVD-video.
If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world. A BD-video or DVD-video labeled for a specific region can only be played back in the unit with the same region code.

BD-video

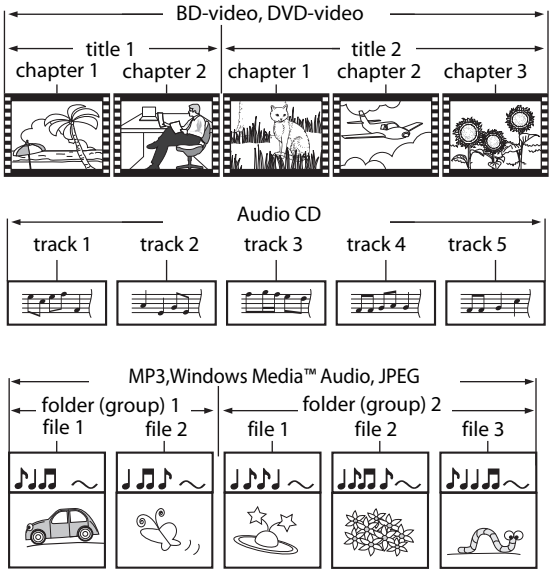
DVD-video

For HTS3051BV/F7 (USA / Canada)

For HTS3051BV/F8 (Mexico)

Hint for Disc Playback

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



Description for Icons

[ ] : group (folder) icon

[ ] : group (folder) return icon

[ ] : music file icon

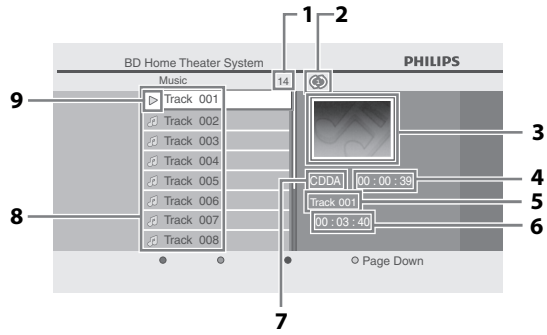
- "Folders" refers to the groups of files.
- "Tracks" refers to the contents recorded on the audio CD.
- "Files" refers to the contents on a disc which are recorded in MP3, Windows Media™ Audio, JPEG file format.

Note

- Unrecognizable characters will be replaced by "□".
- For BD, DVD and SD card, this unit can recognize up to 999 groups (folders), and 9,999 tracks / files.
- For CD, this unit can recognize up to 255 groups (folders), and 999 tracks / files.

Guide to File List

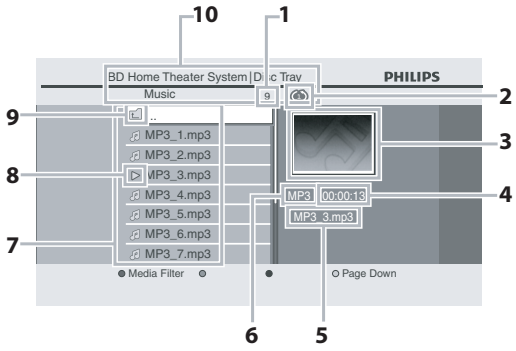
Audio CD Track List



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

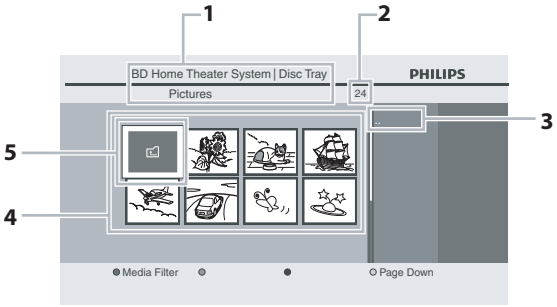
Music Mode File List

e.g.) MP3 mode



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

Picture Mode File List

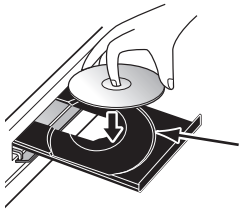


1) **Directory**
2) **Number of contents in the current hierarchy**
3) **Current file name**
4) **Group (folder) / File list (thumbnails)**
5) **Root folder**

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.**



Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit (refer to page 24 for the list of compatible discs).

3) **Press [⏏ (open/close)] to close the disc tray.**

It may take a while to load the disc.

To eject the disc:
Press **[⏏ (open/close)]** to open the disc tray.
Remove the disc.
Press **[⏏ (open/close)]** to close the disc tray.

Playing Back a BD or a DVD

1 **Insert a disc (refer to "How to Insert a Disc" on page 26).**

2 **Playback may start automatically.**
If not, press **[► (play)]**.
Some discs may show a title or a disc menu. In this case, refer to "Using the Title / Disc Menu" on page 31.
To pause playback:
Press **[❚❚ (pause)]**.
To return to the normal playback:
Press **[► (play)]**.
To stop playback:
Press **[■ (stop)]**.
Playback will be in Resume-On-Stop mode, and the home menu will appear.

<Resume-On-Stop mode>
When you press **[► (play)]** next time, the playback will start from the point where it has been stopped.

Note
- Playback will also stop and the home menu will appear when you press **[⌂ (home)]**.
- For BD-Java application, the Resume-On-Stop may not be available.
- If you press **[OK]** instead of **[► (play)]**, playback can be started from the beginning of the disc even if it was in the Resume-On-Stop mode.
- You can also start from the beginning of the disc if you press **[I◄ (previous)]** while the resume message is displayed.
- The resume message can be removed by pressing **[BACK ⮌]**.
- Resume-On-Stop mode remains in effect even after power is turned off, but will be cancelled once the disc is ejected.

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

CD MP3 WINDOWS MEDIA AUDIO JPEG

How to Navigate through the Track / File List

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

Recommended specifications:

MP3 / Windows Media™ Audio

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

JPEG

Resolution

- Upper limit : 2,560 x 1,900 dots (sub sampling is 4:4:4)
  : 5,120 x 3,840 dots (sub sampling is up to 4:2:2)
- Lower limit : 32 x 32 dots
- Maximum file size of a picture : 5 MB

Folder / File number limitations:

BD, DVD and SD card

- 999 folders (groups) and 9,999 files.

CD

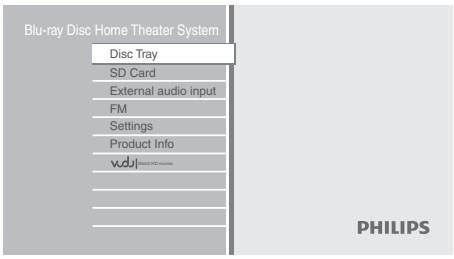
- 255 folders (groups) and 999 tracks / files.

1 Insert a disc (refer to "How to Insert a Disc" on page 26).

- Home menu appears automatically.

2 With "Disc Tray" selected, press [OK].

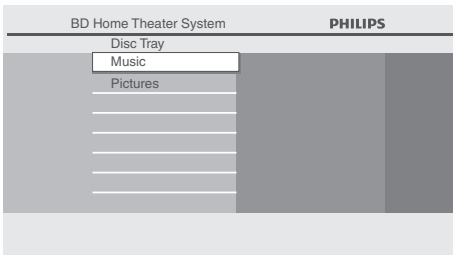
- Media filter screen will appear.
- For audio CD, skip to step 4.



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

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

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



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

Refer to "How to Navigate through the Track / File List" on page 28.

To skip to the next track / file:
Press **[▶| (next)]**.

To skip to the previous track / file:
Press **[|◀ (previous)]**.

To pause playback:
Press **[❚❚ (pause)]**.

To return to the normal playback:
Press **[▶ (play)]**.

To stop playback:
Press **[■ (stop)]**.
Playback will be in Resume-On-Stop mode.

<Resume-On-Stop mode for **audio CD**>
Playback will start from the point where it is stopped next time you press **[▶ (play)]**.

If you press **[OK]** instead of **[▶ (play)]**, playback will start from the beginning of the track / file instead of resuming from the stop point.

<Resume-On-Stop mode for **MP3** / **Windows Media™ Audio** / **JPEG**>
Playback will start from the beginning of the current file next time you press **[▶ (play)]** or **[OK]**.

To go back to the media filter screen:
Press **[RED]** in Resume-On-Stop mode.

Note

- Playback will also stop and the home menu will appear when you press **[⌂ (home)]**.
- 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.

KODAK Picture CD

JPEG

This unit can also run JPEG files stored on KODAK Picture CD. You can enjoy picture images on the TV set by playing back the KODAK Picture CD. This unit conforms to ver.7.0 of KODAK Picture CD. For details of KODAK Picture CD, contact a shop that provides developing service of Kodak Inc.

1 **Insert a KODAK Picture CD.**
- Home menu appears automatically.

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

3 **Select "Pictures" in the media filter screen. Then press [OK] to display the file list.**

4 **Follow step 4 in "Playing Back an Audio CD or a Disc with MP3 / Windows Media™ Audio / JPEG Files" on pages 28-29.**

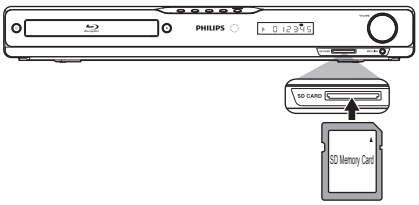
Tips for JPEG / KODAK Picture CD Playback
- Every press on **[ANGLE]** will turn the image clockwise by 90 degrees when an image is displayed.

Note
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back in this unit.

Reading the SD Memory Card

MP3 WINDOWS MEDIA AUDIO JPEG

You can play back the MP3 / WMA / JPEG files in an SD Memory Card.
With the SD Memory Card, you can also enjoy the following functions.
- Special additional contents for BD-ROM Profile 1 ver.1.1. (For more information about the special additional contents, refer to the instruction book that came with the disc.)
- BD-Live function (BD-ROM ver. 2 Profile 2.0). (For more information about BD-Live, refer to page 33.)



1 **Insert an SD card and then press [⌂ (home)].**
Home menu appears.

2 **With "SD Card" selected, press [OK].**
- Media filter screen will appear.

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

4 **Follow step 4 in "Playing Back an Audio CD or a Disc with MP3 / Windows Media™ Audio / JPEG Files" on pages 28-29.**

To remove the SD Memory Card:
In stop mode, gently push in the SD Memory Card, then pull it out slowly.

Note

- In the "SD Card" mode, the resume information will be cleared when;
  -**[■ (stop)]** is pressed while in the Resume-On-Stop mode.
  -the SD Memory Card is removed.
  -the unit is turned into the standby mode.
- Do not remove the SD Memory Card or turn the unit to the standby mode while the contents of the card are in playback. It may result in malfunction or loss of the card's data.
- Do not delete the folders or files in the SD Memory Card with your computer. This unit may not read SD Memory Cards formatted on a computer.
- If a folder or file name includes one of the following unrecognizable characters, the folder or file name may not be displayed correctly.
  -Unrecognizable characters : . , " = + [ ] ; / \ : | ¥

Using the Title / Disc Menu

BD VIDEO DVD VIDEO

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

Note

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

SPECIAL PLAYBACK

Fast Forward / Fast Reverse

BD VIDEO DVD VIDEO CD MP3 WINDOWS MEDIA AUDIO

1) **During playback, press [▶▶ (forward)] repeatedly for fast forward.**
   During playback, press [◀◀ (reverse)] repeatedly for fast reverse.
   Every time you press **[▶▶ (forward)]** or **[◀◀ (reverse)]**, the playback speed will change.
2) **Press [▶ (play)] to return to the normal playback.**

Note

- For BD and DVD, speed changes in 5 different levels.
- For audio CD, MP3 and Windows Media™ Audio, speed changes in 3 different levels.

Slow Forward Playback

BD VIDEO DVD VIDEO

1) **During playback, press [❚❚ (pause)] . Then press [▶▶ (forward)].**
   Every time you press **[▶▶ (forward)]**, the playback speed changes in 3 different levels.
2) **Press [▶ (play)] to return to the normal playback.**

Note

- Only slow forward is available.

Step by Step Playback

BD VIDEO DVD VIDEO

1) **In pause mode, press [❚❚ (pause)] repeatedly.**
   Every time you press **[❚❚ (pause)]**, playback will advance one step at a time.
2) **Press [▶ (play)] to return to the normal playback.**

Note

- Only step by step forward is available.

Repeat Playback

Available repeat function varies depending on the discs.

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

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

Note

- The repeat setting will be cancelled when you stop playback.
- If you press **[REPEAT A-B]** when the repeat setting for BD, DVD or CD playback is set, the repeat setting will be cancelled.
- When the repeat setting is set for a MP3 or WMA folder (file), the repeat setting will be cancelled if you select other MP3 or WMA folder (file) to playback.

A-B Repeat

BD VIDEO DVD VIDEO CD

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

1) **During playback, press [REPEAT A-B] once at the point where you want to set point A.**
2) **During playback, press [REPEAT A-B] again at the point where you want to set point B.**
   As soon as you set point B, the part between point A and point B will start to play repeatedly.
   To cancel A-B repeat:
   Press **[REPEAT A-B]** repeatedly until "Off" appears.

Note

- Point B should be set within the same title or track as point A.
- If you press **[REPEAT A-B]** when the repeat setting for BD, DVD or CD playback is set, the repeat setting will be cancelled.
- To cancel the A point which was set, press **[CLEAR]**.

Slide Show

JPEG

1) **Follow steps 1 to 3 in "Playing Back an Audio CD or a Disc with MP3 / Windows Media™ Audio / JPEG Files" on pages 28-29.**
2) **Open the folder which contains the desired JPEG files.**
3) **Use [▲ / ▼ / ◄ / ►] to select a desired file to be played back, then press [► (play)] or [OK].**
   - An image will be played back from the selected file and go to the next one in turn every 10 seconds.
4) **Press [■ (stop)] to stop playback.**
   To return to the first item:
   Press **[TOP MENU]**.

   To return to the file played last:
   Press **[DISC MENU / POP-UP MENU]**.

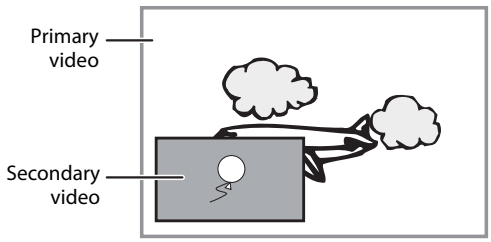
Note

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

PiP (BONUSVIEW) Setting

BD VIDEO

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 **[MODE]** whenever the scene contains the secondary video.



1) **During playback, press [MODE].**
   PiP information will appear.
2) **Use [▲ / ▼] to select the secondary video you want to show.**
   - The secondary video will be displayed with the secondary audio.
   - Use **[◄ / ►]** to switch between current setting and "Off".
3) **Press [BACK ⮌] to remove the PiP information.**
   - On how to output the secondary audio, refer to "Switching Audio Soundtrack" on page 35 and "Blu-ray Disc Audio" on page 41.

Enjoying BD-Live Discs with Internet

BD VIDEO

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.**
- **You must insert an SD Memory Card when using the BD-Live function.**
  (SD Memory Card of 1GB or more is recommended.)
- **Do not remove the SD Memory Card when using the BD-Live function.**

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 "Network Connection with LAN" on page 22.
- For the network setup, refer to "Network Connection" on page 49.
- For certain discs, "BD-Live Setting" may need to be changed.
- Depending on your connection environment, it may take time to connect to the Internet or the Internet may not be connected.
- When BD-Live functions are used and the unit is connected to the Internet, you may be charged for this communication.
- Some discs with BD-Live function require memory when playing back the content. If you cannot play back a disc with BD-Live function, insert an SD card(1GB or more) which is formatted on this unit.

Note for AACS Online

- The player or disc IDs 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 IDs, you will be introduced to other similar movies.
- You can save game score histories.

Title / Chapter Search

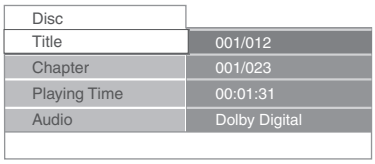
BD VIDEO DVD VIDEO

Using [I◄ (previous)] / [►I (next)]

1) **During playback, press [►I (next)] to skip the current title or chapter and move to the next.**
The title or chapter will move forward by one at a time.
• If there is no chapter in one title, the current title may be skipped.
To go back to the beginning of the current title or chapter, press **[I◄ (previous)]**.
Press **[I◄ (previous)]** 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 [SEARCH].**



2) **Use [▲ / ▼] to select "Title" or "Chapter".**
3) **Use [the Number buttons] or [◄ / ►] to enter the title / chapter number.**
4) **Press [OK].**
Playback will start from the beginning of the title / chapter.
5) **Press [SEARCH] to remove the information display.**

Using [the Number buttons] (Direct Search)

Title Search

In stop mode, enter the title number you want to search using [the Number buttons].
Playback of the title will start in a few seconds.

Chapter Search

During playback of a title, enter the chapter number you want to search using [the Number buttons].
Playback of the chapter will start in a few seconds.

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

Track Search

CD MP3 WINDOWS MEDIA AUDIO JPEG

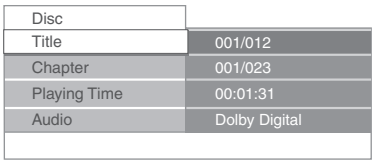
Using [I◄ (previous)] / [►I (next)]

1) **During playback, press [►I (next)] 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 **[I◄ (previous)]**.
Press it repeatedly to go to the previous track / file. The track / file will move backward one at a time.

Time Search

BD VIDEO DVD VIDEO

1) **During playback, press [SEARCH].**



2) **Use [▲ / ▼] to select "Playing Time".**
3) **Use [the Number buttons] to enter the time count you want to jump to.**

e.g.)
Entering 1 hour 45 minutes and 15 seconds.

Press [1] [4] [5] [1] [5]

4) **Press [OK].**
Playback will start from the desired time count.
5) **Press [SEARCH] to remove the information display.**

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.

BD VIDEO

1) **During playback, press [SUBTITLE] repeatedly to display "Primary", "Secondary" or "Subtitle Style".**

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

   "Secondary" : Sets the subtitle for the secondary video.

   "Subtitle Style" : Sets style of the subtitle.

2) **Use [▲ / ▼] to select your desired subtitle or style.**

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

3) **Press [SUBTITLE] repeatedly to exit.**

DVD VIDEO

1) **During playback, press [SUBTITLE].**
2) **Use [▲ / ▼] to select your desired subtitle.**

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

3) **Press [SUBTITLE] to exit.**

Note

- Some discs will only allow you to change the subtitles from the disc menu or pop-up menu. Press **[TOP MENU]** or **[DISC MENU / POP-UP MENU]** to display the disc menu or pop-up menu.
- If the disc has no subtitle language or subtitle style, "Not Available" will be displayed on the TV screen.
- During playback of the secondary video, the primary subtitle setting is not available except when there is no subtitle for the secondary video.

Switching Audio Soundtrack

When playing back video material recorded with two or more soundtracks (these are often in different audio languages or audio formats), you can switch them during playback.
For BD, available audio varies depending on "Blu-ray Disc Audio" setting. Refer to page 41 for more information.

BD VIDEO

1) **During playback, press [AUDIO] repeatedly to display "Primary" or "Secondary".**

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

   "Secondary" : Sets the audio for the secondary video.

2) **Use [▲ / ▼] to select your desired audio stream channel.**

   • For "Secondary", use **[◀ / ▶]** to switch between current audio setting and "Off".

3) **Press [AUDIO] repeatedly to exit.**

DVD VIDEO

1) **During playback, press [AUDIO].**
2) **Use [▲ / ▼] to select your desired audio stream channel.**

3) **Press [AUDIO] to exit.**

Note

- The secondary audio will not be output when the secondary video is not displayed or when "Blu-ray Disc Audio" is set to "Primary Audio Only". (For some BD, secondary audio will be output even when secondary video is off.)
- The sound mode cannot be changed during playback of discs not recorded in multiple audio.
- Some discs allow changing the audio language setting on the disc menu. (Operation varies depending on the discs. Refer to the manual accompanying the disc.)
- **[AUDIO]** may not work on some discs with multiple audio streams or channels (e.g. DVDs that allow changing audio setting on the disc menu).
- If the disc has no audio language, "Not Available" will be displayed on the TV screen.
- For DTS-CD (5.1 music disc), selecting audio streams or channels is not available.
- You can check the selected audio stream in the information display. To call up the information display, press **[INFO ⓘ]** during playback.

Switching Camera Angles

BD VIDEO DVD VIDEO

Some BD-video and DVD-video 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 [ANGLE].**
   - The selected angle will be displayed on the display bar at the top of the TV screen.
2) **Use [▲ / ▼] to select your desired angle.**

3) **Press [ANGLE] to exit.**

Note

- If "Angle Icon" setting is set to "Off", will not appear on the TV screen. (refer to page 42)

Play from Portable Media Player

Simply connect your portable media player (e.g. MP3 player) to this unit to enjoy superior sound quality from your music collections.

1) **Connect your portable media player to the MP3 LINK jack on this unit.**
   - Refer to "Connecting Portable Media Player" on page 21.
2) **Turn on your portable media player.**
3) **Press [⌂ (home)].**
4) **Use [▲ / ▼] to select "External audio input", then press [OK].**
5) **Use [▲ / ▼] to select "MP3 Link", then press [OK].**
6) **Start play music on your portable media player.**

Note

- Control playback is only possible on the portable media player.
- Stop playback on the portable media player before you switch to other source mode.
- You can also change the source mode to "MP3 Link" by pressing **[SOURCE]** repeatedly until "MP3 Link" is displayed.

Radio Operations

By connecting the supplied FM wire antenna, you can listen to FM radio on this unit.

Presetting Radio Stations

When you access radio mode for the first time, follow the instruction to store a radio station to your preset station list. You can store up to 40 FM radio stations in the memory.

1) **Connect the supplied FM wire antenna to the FM ANT 75Ω jack on this unit.**
   - Refer to "Connecting FM Radio Antenna" on page 21.
2) **Press [⌂ (home)].**
3) **Use [▲ / ▼] to select "FM", then press [OK].**
4) **Press [◄ / ►].**
   - This unit will start tuning automatically until a radio station with sufficient signal strength is found.
   - If necessary, repeat press **[◄ / ►]** again until you find the desired radio station.
   - To fine-tune the reception of a weak station, press **[▲ / ▼]** repeatedly until an optimal reception is found.
5) **Press [OK].**
   - The radio station is added to the preset station list.

Note

- While auto tuning, audio will be muted until this unit finds a radio station with sufficient signal strength.

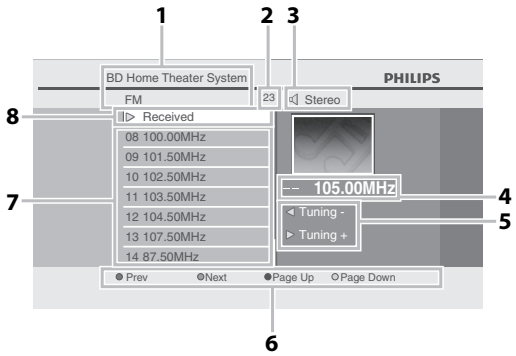
Listening to a Preset Radio Station

1) **Follow steps 1) to 3) in "Presetting Radio Stations" on page 36.**
2) **Use [RED] / [GREEN] to select the desired preset station.**
   - This unit will tune to the selected preset radio station.
   - To go to the previous / next page of the preset station list, press **[BLUE]** / **[YELLOW]**.

Note

- You can also select the preset station by :
  -Entering the desired preset station number using **[the Number buttons]**
  -Pressing **[SEARCH]** and then enter the desired preset station number using **[the Number buttons]**.
- You can change the audio mode(stereo or mono mode) by pressing **[AUDIO]** repeatedly.

Guide to the FM Radio Screen



1) **Directory**
2) **Total number of preset stations**
3) **Audio mode (Stereo or Mono mode)**
4) **Frequency of current radio station**
5) **Button guide for tuning**
6) **Color key (RED / GREEN / BLUE / YELLOW) guide**
7) **Preset station list**
8) **Current status**

Deleting a Preset Radio Station

1) **Follow steps 1) to 3) in "Presetting Radio Stations" on page 36.**
2) **Use [RED] / [GREEN] / [BLUE] / [YELLOW] to select the desired preset station.**
3) **Press [CLEAR].**
   - The selected station is deleted from the preset station list.

VUDU Operations

With this unit, you can enjoy VUDU HD on-demand movies / TV episodes and Internet applications.
In order to use this feature, you must connect this unit to the Internet. (Broadband Internet connection of 8 Mbps or faster is recommended.)

- For network connection, refer to "Network Connection with LAN" on page 22.
- For network setup, refer to "Network Connection" on page 49.

For complete instructions on using VUDU service, please visit www.vudu.com/docs to view an updated in-depth online manual.

Activating VUDU

After you set up the network connection, you must set up a VUDU account and activate this unit before watching VUDU movies.

1) **Press [⌂ (home)] to access the home menu.**
2) **Use [▲ / ▼] to select "vudu", then press [OK].**
   - VUDU App Home screen will appear.
   - For the first time only, "Network Service Disclaimer" screen will appear. After confirming the content, use **[◄ / ►]** to select "Agree", then press **[OK]**.
3) **Use [▲ / ▼ / ◄ / ►] to select "VUDU movies", then press [OK].**
   - VUDU welcome screen will appear.
4) **Select "SIGN Up Now", then press [OK].**
5) **Enter the e-mail address you would like associated with your VUDU account. After you enter your e-mail address correctly, select "Done" and press [OK].**
   - Activation e-mail will be sent to the e-mail address. (You must have access to the e-mail address to activate VUDU.)
6) **Follow directions in the activation e-mail to complete your account activation.**

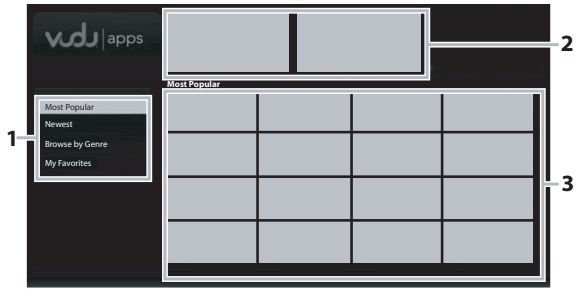
Note

- You can deactivate the connection to VUDU by setting "Vudu Deactivate" to "Yes". (Refer to page 44.)
- For questions regarding VUDU service, please contact VUDU Customer Care at **1-888-554-VUDU (8838)** or visit **www.vudu.com/support**.

Guide to VUDU Menu Screen

App Home Screen

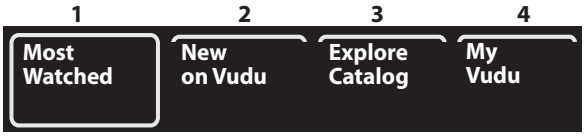
App Home screen is the entry point to VUDU applications including VUDU movies.



1) **Viewing mode** : List of different viewing modes for App Home applications
2) **Promotional graphics** : Placeholder where promotional graphics are displayed
3) **Application list** : Grid of applications in the selected viewing mode

VUDU Movies Home Screen

When you select "VUDU movies" in App Home screen, VUDU movies home screen will appear.



1) **Most Watched** : To access the list of popular movies / TV episodes on VUDU
2) **New on Vudu** : To access the list of newly available movies / TV episodes
3) **Explore Catalog** : To access the list of options to search movies / TV episodes
4) **My Vudu** : To access the list of rented or purchased contents

Note

- You can go back to VUDU movies home screen by pressing **[BLUE]** while you are using VUDU movies features.

Renting or Purchasing VUDU Movies

After activating this unit, you are ready to purchase or rent movies / TV episodes and watch directly on your TV.

1) **Select a desired movie or TV episode by navigating VUDU movies menus. Press [OK] to display the "MOVIE DETAILS" screen.**
2) **Use [▲ / ▼] to select "Rent / Own", then press [OK].**
3) **Use [▲ / ▼] to select a desired quality option, then press [OK].**
   - Select the quality option that best suits your network environment.

	Video Resolution	Minimum Bit Rate
SD	480p	1 Mbps
HD	720p	2.25 Mbps
HDX	1080p	4.5 Mbps

4) **Use [▲ / ▼] to select "Rent for $*.**" or "Buy for $*.**", then press [OK] to confirm your rental or purchase.**
5) **Select "Watch Now" to start playing the movie / TV episode.**
   - If you want to return to the "MOVIE DETAILS", select "Watch Later".

Note

- Available quality options differ depending on the content.

Watching Rented or Purchased VUDU movies

1) **In VUDU movies home screen, select "My Vudu" and press [OK].**
2) **Use [◀ / ▶] to select "My Rentals", "My Movies" or "My TV Shows", then press [OK].**
3) **Use [▲ / ▼] to select a desired movie / TV episode, then press [OK].**
4) **Select "Watch" or "Watch ***" to start watching the movie / TV episode.**
   - During playback, use following buttons to control the playback.

Button	Action
[❙❙ (pause)]	Pause the playback.
[■ (stop)]	Stop the playback.
[◀◀ (reverse)] / [▶▶ (forward)]	Fast reverse or forward the playback.
[▶ (play)]	Resume the playback.
[YELLOW]	Display the info banner which shows the playback information.
[⌂ (home)]	Go back to the home menu.

Note

- Available buttons and actions may subject to change without notice.

Using Internet Applications

In addition to VUDU movies, you can use various kinds of Internet applications.

1) **In App Home screen, use [▲ / ▼ / ◀ / ▶] to select a desired application and press [OK].**
2) **Follow the instructions on screen of the selected application.**

Note

- Available applications may change without notice.

LIST OF SETTINGS

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

1) Press [⌂ (home)] to access the home menu.
2) Use [▲ / ▼] to select "Settings", then press [OK].
3) Use [▲ / ▼] to select the desired setting, then press [OK].
4) Use [▲ / ▼] to move the highlight up and down in the list.
- Options of the highlighted item will be displayed in the list on the right whenever available.

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.
Settings with (*) can be accessed from the "Quick Setup" also.
The item highlighted in gray is the default setting.

	Category	Menus / Options		Description
Advanced Setup	Language	Audio BD VIDEO DVD VIDEO	Default Ceština Dansk Deutsch English Español Ελληνικά Français Italiano Magyar Nederlands Norsk Polski Português Русский suomi Svenska Türkçe	Sets the audio language for BD-video or DVD-video playback. • If you select "Default", the disc's original language will be in effect.
		Subtitle BD VIDEO DVD VIDEO	Off Ceština Dansk Deutsch English Español Ελληνικά Français Italiano Magyar Nederlands Norsk Polski Português Русский suomi Svenska Türkçe	Sets the subtitle language for BD-video or DVD-video playback.
		Disc Menu BD VIDEO DVD VIDEO	Ceština Dansk Deutsch English Español Ελληνικά Français Italiano Magyar Nederlands Norsk Polski Português Русский suomi Svenska Türkçe	Sets the language for disc menu.
		Player Menu*	Auto (XXXX) English Español Français	Sets the language for player menu (OSD menu) **"Auto":** Activates the Get & Set Menu Language function. Refer to page 49. • "Auto" is available only when "EasyLink (HDMI CEC)" is set to "On". • Inside the parenthesis next to "Auto" will be the current selected language.
	Video Output	TV Shape* • Refer to page 45 for more information.	4:3 Normal 4:3 Crop 16:9 Widescreen 16:9 Squeeze	Sets the aspect ratio of the playback image to fit your TV.

	Category	Menus / Options		Description
Advanced Setup	Video Output	HDMI Video	HDMI 1080p/24 BD VIDEO • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 45 for more information.	Auto Off	**"Auto":** Outputs the picture in 1080p/24 (1080 progressive with 24 frames per second) when it meets all the conditions listed below: • The video resolution and the frame rate of the material is 1080p/24 . • "HDMI Video Resolution" setting is set to "1080p". • The display device supports the 1080p/24 output. **"Off":** • Outputs the picture in 1080p/60. (60 frames per second, progressive)
			HDMI Video Resolution* • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 45 for more information.	Auto 480p 720p 1080i 1080p	Sets the resolution of the video signal being output from the HDMI OUT jack. • The selected resolution must also be supported by your TV monitor.
			HDMI Deep Color • This feature is available only when the display device is connected by an HDMI cable, and when it supports Deep Color feature.	Auto Off	Reduces the posterization effect of the playback picture. **"Auto":** Reduces the posterization effect by automatically outputting up to 36 bit color whenever the unit recognizes the connected display device supports Deep Color feature. **"Off":** Outputs the standard 24 bit color.
		Component Output	480i 480p		Sets resolution for component output picture. • The selected resolution must also be supported by your TV monitor. • Refer also to your TV's manual. • If you have selected the resolution not supported by your TV by mistake and the picture gets disturbed, press and hold **[► (play)]** on the front panel for 5 seconds to change the setting back to its default. • When HDMI cable is connected, only "480i" and the resolution selected in the "HDMI Video Resolution" will be available.
			720p 1080i	With regard to DVD-video with copy protection, the resolution will be set to 480p regardless of the setting here. If 480p output is not available, 480i will be output.	
		De-interlacing Mode	Auto Video		**"Auto":** Automatically detects film or video content, and appropriately converts it. **"Video":** Select this option when the picture is distorted when using "Auto".
		Black Level	On Off		Adjusts brightness to compensate for ambient room light.
		HD Noise Reduction	On Off		Reduces noise of the playback picture. **"On":** Activates Noise Reduction. **"Off":** Deactivates Noise Reduction.

Category	Menus / Options				Description
Advanced Setup — Audio	Night Mode	Auto On Off			Compresses range between soft and loud sounds. **"Auto":** Night Mode will be activated automatically when Dolby TrueHD audio is played back. **"On":** Activates the Night Mode. **"Off":** Deactivates the Night Mode.
	Blu-ray Disc Audio BD VIDEO	Mix Audio Output Primary Audio Only			**"Mix Audio Output":** The audio for the secondary video and the interactive application will be output together with the audio for the primary video. **"Primary Audio Only":** Only audio for the primary video will be output. When playing back a BD-video which only contains primary audio, the audio output will be the same case as "Primary Audio Only" even if the "Blu-ray Disc Audio" is set to "Mix Audio Output".
	Audio Output* • Refer to page 46 for more information.	Speakers HDMI Normal HDMI LPCM			**"Speakers"** Audio will be output from the 5.1ch speakers. **"HDMI Normal"** The Multi-channel audio signals are output from HDMI OUT jack with Bitstream or LPCM depending on the material. **"HDMI LPCM"** The Multi-channel or stereo audio signals are output from HDMI OUT jack with LPCM.
	Speaker Setup • This feature is available only when "Audio Output" is set to "Speakers". (Refer to page 46.)	Surround Effects • Sets the surround effect of audio when the setting of surround mode is set to "Dolby Pro Logic II Movie" or "Dolby Pro Logic II Music". (Refer to "Selecting Surround Mode" on page 54.)	Center Width	0 ~ 7	default is 3 — Adjust the sound balance between center and front speakers.
			Dimension	-3 ~ 3	default is 0 — Adjust the sound balance between front and rear speakers.
			Panorama	On Off	**"On" :** Sets the sound of center speaker to have surround-sound effect. **"Off" :** Sets the sound of center speaker to normal.
		Speaker Distance	Unit	Feet Meters	Sets the unit of measure for "Speaker Distance".
			Front (L/R)	Feet : 0 ~ 15 Meters : 0 ~ 4.5	default is 3 — Sets the distance from the listening point to each speaker to get the ideal delay time. • If you change the setting of "Front (L/R)", the setting of "Center" and "Surround" will be set to the same setting automatically. • If you set "Front (L/R)" to 0 ft (0m), you can only select 0 ft (0m) for "Center" and "Surround". • Difference of the values among "Front (L/R)" and "Center" cannot exceed 5 ft (1.5m).
			Center		default is 3
			Surround		default is 3
			Default	Yes No	Sets all speaker distance settings to the default setting.

	Category	Menus / Options					Description
Advanced Setup	Audio	Speaker Setup • This feature is available only when "Audio Output" is set to "Speakers". (Refer to page 46.)	Speaker Level	Front(L)	-10dB ~ +10dB	default is 0	Sets the volume level for each speaker to get ideal audio balance. • Test tone will be output when you select a speaker. Press **[▲ / ▼]** to adjust the volume of the speaker, then press **[OK]**. • If you want to stop the test tone, press **[BACK ⮌]**.
				Center		default is 0	
				Front(R)		default is 0	
				Subwoofer		default is 0	
				Surround(R)		default is 0	
				Surround(L)		default is 0	
	Ratings Lock • Refer to page 48 for more information.	Rating Level	All 8 [Adult] to 1 [Kid Safe]				Sets the rating level for the disc playback.
		New PIN					Sets the new password for the "Ratings Lock" setting.
	Others	Angle Icon	On Off				**"On":** The angle icon automatically appears on the TV screen when playing back content with various camera angles available. **"Off":** The angle icon does not automatically appear on the TV screen when playing back content with various camera angles available.
		Front Panel Brightness	Bright Dim Auto				Sets the brightness of the front panel display. When "Auto" is selected, the front panel display automatically goes dim during playback.
		Screen Saver	On Off				Sets whether to activate the screen saver after 5 minutes of no action on the unit.
		Slide Show Transition JPEG	Cut In/Out Fade In/Out				Sets the visual effect for the slide show transition mode. **"Cut In/Out":** The pictures will cut in and out sharply as playback progresses. **"Fade In/Out":** The pictures will fade in and out as playback progresses.
		EasyLink (HDMI CEC) • This feature is available only when the display device is connected with an HDMI cable, and when it supports EasyLink (HDMI CEC) feature. • Refer to page 49 for more information.	On Off				Sets whether to utilize the EasyLink (HDMI CEC) function. EasyLink (HDMI CEC) function allows your PHILIPS brand EasyLink TV to act in conjunction with this unit or vice versa.

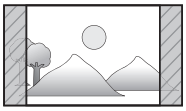
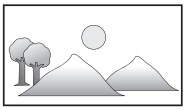
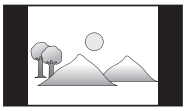
Category	Menus / Options					Description
Advanced Setup	Others	Network Connection • Refer to pages 49-52 for more information.	Connection Test			Perform a network connection test. After you change IP address or DNS setting, always perform this test.
			Enable(Easy)			If you select "Enable(Easy)", Connection test will automatically start.
			Enable (Custom)	IP Address Setting	Auto(DHCP)	Set the IP address. In most cases, you can connect to the Internet without making any changes to the default setting.
					Manual: IP Address	
					Manual: Subnet Mask	
					Manual: Default Gateway	
				DNS Setting	Auto(DHCP)	Set the DNS setting. In most cases, you can connect to the Internet without making any changes to the default setting.
					Manual: Primary DNS	
					Manual: Secondary DNS	
				Proxy Setting	Do Not Use	Set the proxy server. In most cases, you can connect to the Internet without using proxy server.
					Use: Proxy Address	
					Use: Proxy Port	
				Connection Speed	Auto 10BASE Half 10BASE Full 100BASE Half 100BASE Full	Set the connection speed. In most cases, you can connect to the Internet without making any changes to the default setting.
				BD-Live Setting	Allow Limited Allow Prohibit	You can restrict Internet access when BD-Live functions are used.
				Network Status		You can check the current status of the network setting.
			Disable	Yes No		Deactivate the network connection.
			Disclaimer			Displays the network service disclaimer.
		Software Upgrade • Refer to page 53 for more information.	Disc Upgrade	Yes No		Set the disc upgrade. You can upgrade the software version by using a disc. To download the latest software version, please visit www.philips.com/support.
			Network Upgrade	Yes No		Set the network upgrade. You can upgrade the software version by connecting this unit to the Internet.

	Category	Menus / Options		Description
Factory Default	Settings	Yes No		**"Yes":** Resets all the settings, except for "Ratings Lock" and "Network Connection", in "Settings" to the factory default. **"No":** Does not perform the initialization.
	Format SD Card	Yes No		**"Yes":** Re-format SD card. **"No":** Does not format the SD card.
	Local Storage	Player	Yes No	**"Yes":** Re-format local storage (Player) used for BD-Java. **"No":** Does not perform the initialization.
		SD Card	Yes No	**"Yes":** Re-format local storage (SD card) used for BD-Java. **"No":** Does not format the SD card.
	Network Settings	Yes No		**"Yes":** Initializes manually entered or automatic (default) network settings. **"No":** Does not perform the initialization.
	Vudu Deactivate	Yes No		**"Yes":** Deactivates the connection to VUDU. **"No":** Does not perform the deactivation.

TV Shape

home ➡ "Settings" ➡ "Advanced Setup" ➡ "Video Output" ➡ "TV Shape"

Use this feature to adjust the aspect ratio of the video source which is different from your TV's ratio to fit your TV monitor without distorting the picture. Descriptions of each setting are as follows:

Video source	Your TV	Option	Description
16:9	**4:3**	4:3 Normal	To enjoy 16:9 picture on 4:3 monitor: 16:9 picture is scaled down until both sides of the picture fits the 4:3 TV.
		4:3 Crop 	To enjoy 16:9 picture on 4:3 monitor: Both sides of the picture are trimmed to fit the 4:3 TV without distorting the aspect ratio of the picture.
	16:9	16:9 Widescreen 	To enjoy 16:9 picture on 16:9 monitor: Select this setting when you want to enjoy 16:9 picture on the 16:9 TV.
4:3		16:9 Squeeze 	To enjoy 4:3 picture on 16:9 monitor: Use this setting to display 4:3 picture on the 16:9 TV without distorting the aspect ratio of the picture.

HDMI Video Resolution

home ➡ "Settings" ➡ "Advanced Setup" ➡ "Video Output" ➡ "HDMI Video" ➡ "HDMI Video Resolution"

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

You can select the desired "HDMI Video Resolution" among the settings listed below:
"Auto","480p","720p","1080i","1080p"

- When you make a selection, the TV monitor temporarily goes blank and then comes back again. If it does not, press and hold **[► (play)]** on the front panel for 5 seconds to change the setting back to its default.

Actual Output Resolution by Media:

Media	BD				
Setting in the "HDMI Video Resolution"	Source				
	480i/60	720p/60	1080i/60	720p/24	1080p/24
480p	480p/60	480p/60	480p/60	480p/60	480p/60
720p	720p/60	720p/60	720p/60	720p/60	720p/60
1080i	1080i/60	1080i/60	1080i/60	1080i/60	1080i/60
1080p	1080p/60	1080p/60	1080p/60	1080p/60	1080p/24 or 60(*1)
Auto	The highest resolution supported by your display device will be in effect automatically.				

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

Media	DVD	Photo viewing	OSD-only viewing
Setting in the "HDMI Video Resolution"	Source		
	480i/60		
480p	480p/60	480p/60	480p/60
720p	720p/60	720p/60	720p/60
1080i	1080i/60	1080i/60	1080i/60
1080p	1080p/60	1080p/60	1080p/60
Auto	The highest resolution supported by your display device will be in effect automatically.		

- When HDMI cable is connected, only "480i" and the resolution selected in the "HDMI Video Resolution" will be available for the "Component Output".
- Composite video out (VIDEO OUT) can only output 480i/60.

Note

- The selected resolution must also be supported by your display device.
- If your TV and the unit is connected by a DVI cable and if you select "Auto", "480p" will be in effect automatically.
- Pressing **[► (play)]** on the front panel for 5 seconds changes the setting back to its default. ("Component Output" setting will also be reset to default (480i).)
- Refer also to your TV's manual.

Audio Output

home ➡ "Settings" ➡ "Advanced Setup" ➡ "Audio" ➡ Audio Output

If you set to "Speakers" :
The audio output from the 5.1ch speakers differs depending on the audio source and the setting of surround mode. (Refer to "Selecting Surround Mode" on page 54.)

If you set to "HDMI Normal" or "HDMI LPCM" :
Refer to the table below for the audio output from HDMI OUT jack.

	"Audio Output" setting ➡	"HDMI Normal"		"HDMI LPCM"	
	"Blu-ray Disc Audio" setting ➡	"Primary Audio Only"	"Mix Audio Output"	"Primary Audio Only"	"Mix Audio Output"
Media ⬇	Audio Source ⬇	Which audio format can be output depends on the compatibility of the connected device.			
BD-video	Dolby Digital	Dolby Digital or Multi LPCM or Mute	Dolby Digital or Multi LPCM or Mute	Multi LPCM or Mute	Multi LPCM or Mute
	Dolby Digital Plus	Dolby Digital Plus or Dolby Digital or Multi LPCM[*1] or Mute	Dolby Digital or Multi LPCM[*2] or Mute	Multi LPCM[*1] or Mute	Multi LPCM[*2] or Mute
	Dolby TrueHD	Dolby TrueHD or Dolby Digital or Multi LPCM[*3] or Mute	Dolby Digital or Multi LPCM[*4] or Mute	Multi LPCM[*3] or Mute	Multi LPCM[*4] or Mute
	DTS®	DTS® or Multi LPCM or Mute	DTS® or Multi LPCM or Mute	Multi LPCM or Mute	Multi LPCM or Mute
	DTS-HD®	DTS-HD® or DTS® or Multi LPCM[*5] or Mute	DTS® or Multi LPCM[*5] or Mute	Multi LPCM[*5] or Mute	Multi LPCM[*5] or Mute
	LPCM	Multi LPCM or Mute	Multi LPCM or Mute	Multi LPCM or Mute	Multi LPCM or Mute
DVD-video	Dolby Digital	Dolby Digital, Multi LPCM or Mute		Multi LPCM or Mute	
	DTS®	DTS®, Multi LPCM or Mute		Multi LPCM or Mute	
	LPCM	2ch LPCM or Mute		2ch LPCM or Mute	
DTS-CD	DTS®	DTS®, Multi LPCM or Mute		Multi LPCM or Mute	
Audio CD	PCM	2ch LPCM or Mute		2ch LPCM or Mute	
MP3	MP3	2ch LPCM or Mute		2ch LPCM or Mute	
Windows Media™ Audio	WMA	2ch LPCM or Mute		2ch LPCM or Mute	

	"Audio Output" setting ➡	"HDMI Normal"		"HDMI LPCM"	
	"Blu-ray Disc Audio" setting ➡	"Primary Audio Only"	"Mix Audio Output"	"Primary Audio Only"	"Mix Audio Output"
Media ⬇	Audio Source ⬇	Which audio format can be output depends on the compatibility of the connected device.			
External audio input (COAXIAL)	Dolby Digital	Dolby Digital or Multi LPCM or Mute		Multi LPCM or Mute	
	DTS®	DTS® or Multi LPCM or Mute		Multi LPCM or Mute	
	LPCM	2ch LPCM or Mute		2ch LPCM or Mute	
External audio input (AUX1 / AUX2 / MP3 LINK)	Analog audio	2ch LPCM or Mute		2ch LPCM or Mute	
FM	Analog audio	2ch LPCM or Mute		2ch LPCM or Mute	
VUDU	Dolby Digital Plus	Dolby Digital Plus or Dolby Digital or Multi LPCM[*1] or Mute	Dolby Digital or Multi LPCM[*2] or Mute	Multi LPCM[*1] or Mute	Multi LPCM[*2] or Mute
	MP3	2ch LPCM or Mute		2ch LPCM or Mute	

[*1]) Full decoded.
[*2]) Only the independent substream is decoded.
[*3]) Dolby TrueHD stream is decoded.
[*4]) Only the Dolby Digital substream is decoded.
[*5]) Only the core substream is decoded.

- When playing back a BD-video which only contains the primary audio, the audio output will be the same case as the "Primary Audio Only" even if the "Blu-ray Disc Audio" is set to "Mix Audio Output".
- If you unplug the HDMI cable when "Audio Output" is set to "HDMI Normal" or "HDMI LPCM", the audio will be output from 5.1ch speakers.

Ratings Lock

home ➡ "Settings" ➡ "Advanced Setup" ➡ "Ratings Lock"

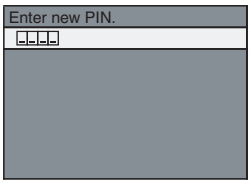
Some BD-video or DVD-video feature a ratings lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

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

Language	Rating Level
Video Output	New PIN
Audio	
Ratings Lock	
Others	

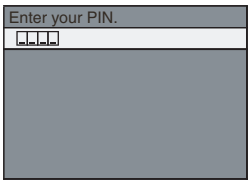
2) If a PIN code has not been set, proceed to step 2-a).
If a PIN code has already been set, proceed to step 2-b).
If you want to change the PIN code, proceed to step 2-c).
If you forget the PIN code, proceed to step 2-d).

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



- "4737" cannot be used.
- Press **[RED]** to return to the previous screen.

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



2-c) Follow step 2-b). Select "New PIN", then press **[OK]**. Enter the new PIN code.

2-d) Enter "4737". Current PIN code and the "Ratings Lock" settings are now cleared. Follow step 1) and step 2-a) to create a new PIN code.

3) After entering the PIN code, "Rating Level" appears. (If not, use [▲ / ▼] to select "Rating Level".) Select desired rating level then press [OK].

Rating Level	All
New PIN	8 [Adult]
	7 [NC-17]
	6 [R]
	5 [PGR]
	4 [PG-13]
	3 [PG]
	2 [G]

	RATING EXPLANATIONS
All	• Ratings Lock Control is inactive; all discs can playback.
8 [Adult]	• DVD software of any grades (adult / general / children) can be played back.
7 [NC-17]	• No one under 17 admitted.
6 [R]	• Restricted; under 17 requires accompanying parent or adult guardian.
5 [PGR]	• Parental Guidance Recommended.
4 [PG-13]	• Unsuitable for children under 13.
3 [PG]	• Parental Guidance suggested.
2 [G]	• General Audience.
1 [Kid Safe]	• Suitable for children.

To cancel ratings lock temporarily

Some discs allow you to cancel the ratings lock temporarily. With those discs, the message below will appear when you try to play them back.
"Please enter your PIN to unblock content."
Follow the instruction which appears on the TV screen to cancel the ratings lock. After entering the PIN code, "Rating Level" appears.

Select desired rating level, then press [OK].

EasyLink (HDMI CEC)

home ➡ "Settings" ➡ "Advanced Setup" ➡ "Others" ➡ "EasyLink (HDMI CEC)"

This unit supports Philips EasyLink, which enables your TV (limited to PHILIPS brand EasyLink TV) to act in conjunction with this unit, or vice versa. Compliant TV must be connected to the HDMI OUT jack.

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

One Touch Play

When the operations with following buttons of the remote control of this unit are performed, the TV will automatically be turned on and switched to the appropriate input channel.

Buttons for one touch play:

- **[▶ (play)]**, **[⏮ (previous)]**, **[⏭ (next)]**, **[the Number buttons]**, **[🏠 (home)]**, **[INFO ⓘ]**, or **[SOURCE]**
- **[TOP MENU]**, or **[DISC MENU / POP-UP MENU]** (when a disc is inserted in the unit)

Standby

When you press and hold **[⏻ (standby/on)]** for 2 seconds, it turns off the power of the TV first and then turns off the power of this unit also.

System Information

Get & Set Menu Language

The unit recognizes the OSD language set for the TV and automatically sets the same language as the player menu language (OSD menu language) for this unit. Refer to the "Player Menu" on page 39 for available languages.

- This feature is available only when "Auto" is selected in the "Player Menu" in the settings menu.

Note

- For external input mode, "One Touch Play" is not available.

Network Connection

Set up network connection settings in order to use BD-Live, VUDU or network upgrade function.

Connection Test

home ➡ "Settings" ➡ "Advanced Setup" ➡ "Others" ➡ "Network Connection" ➡ "Connection Test"

After you made IP address / DNS settings or when a LAN cable is connected, always perform the connection test to check if the connection is correctly made.

1) **Use [▲ / ▼] to select "Settings" in the home menu, then press [OK].**
2) **Use [▲ / ▼] to select "Advanced Setup", then press [OK].**
3) **Use [▲ / ▼] to select "Others", then press [OK].**
4) **Use [▲ / ▼] to select "Network Connection", then press [OK].**
5) **Use [▲ / ▼] to select "Connection Test", then press [OK].**

Connection test will start automatically and the test result will appear right after the connection test finishes.

- "Testing..." : The test is in progress.
- "Pass" : Connection test is successfully completed.
- "Fail" : Connection test failed. Check the connection settings.

Press **[OK]** to go to the list of network status confirmation screen.

IP Address	xxx.xxx.xxx.xxx
Subnet Mask	xxx.xxx.xxx.xxx
Default Gateway	xxx.xxx.xxx.xxx
Primary DNS	xxx.xxx.xxx.xxx
Secondary DNS	xxx.xxx.xxx.xxx
	then press 'OK'.

6) **Press [OK] to go back to the previous screen, or press [🏠 (home)] to go back to the home menu.**

Note

- If the connection test passes, you are ready to use BD-Live, VUDU or network upgrade function using the Internet without making any additional settings.
- If the connection test fails, you may need to change the MAC address settings on your router. You can check the MAC address of this unit on "Network Status" screen (refer to page 52).
- 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 to reset the settings on the modem.

Enable(Easy)

home → "Settings" → "Advanced Setup" → "Others" → "Network Connection" → "Enable (Easy)"

Network settings are set to the following settings initially. (In most cases, you can connect to the Internet without making any changes to the default settings.)

- IP Address Setting	Auto(DHCP)
- DNS Setting	Auto(DHCP)
- Proxy Setting	Do Not Use
- Connection Speed	Auto
- BD-Live Setting	Allow

If you want to set the network settings back to the default settings as above (except "BD-Live Setting"), follow the procedure below.

1) Follow steps 1) to 4) in "Connection Test" on page 49.

2) Use [▲ / ▼] to select "Enable(Easy)", then press [OK].
- The unit will start the connection test automatically and the test result will appear right after the test finishes.
- After the connection test finishes, press **[OK]** to go to network status confirmation screen.

3) Press [OK] to activate the network settings and set the network connection automatically. [⌂ (home)] to go back to the home menu.

Note
- The setting of "BD-Live Setting" will not be set back to the default, even if you follow the procedure.

Enable(Custom)

home → "Settings" → "Advanced Setup" → "Others" → "Network Connection" → "Enable (Custom)"

In following cases, select "Enable(Custom)" to set each setting as necessary.

- When connection test failed with the setting of "Enable(Easy)".
- When instructed by your Internet service provider to make specific settings in accordance with your network environment.

IP Address Setting / DNS Setting

1) Follow steps 1) to 4) in "Connection Test" on page 49.

2) Use [▲ / ▼] to select "Enable(Custom)", then press [OK].

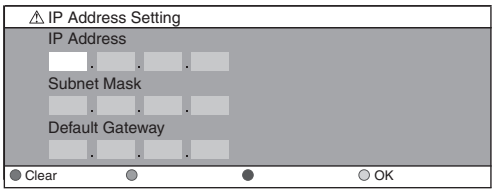
3) Use [▲ / ▼] to select "IP Address Setting", then press [OK].

4) Use [▲ / ▼] to select the desired setting, then press [OK].

"Auto(DHCP)"	: If your router has DHCP server function, select "Auto(DHCP)".
"Manual"	: If your router does not have DHCP server function, select "Manual".

If you select "Manual", follow the following instruction to set the IP address and DNS.

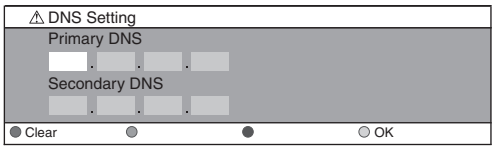
4-a) IP address setting screen will appear. Enter IP address, subnet mask and default gateway with cursor buttons and number buttons.



- Enter the IP address number after checking the specifications of your router.
- If the IP address is unknown, check the IP address of other devices. (e.g. PC connected via LAN cable) and assign a different number from those of other devices.

After you enter all correctly, press [OK] to go to the DNS setting screen.

4-b) DNS setting screen will appear. Enter primary DNS and secondary DNS with cursor buttons and number buttons.



- Enter the DNS addresses provided by your Internet 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.

4-c) After you enter all correctly, press **[OK]**.
- Confirmation message will appear. Select "Yes" to complete the settings.

IP Address	xxx.xxx.xxx.xxx
Subnet Mask	xxx.xxx.xxx.xxx
Default Gateway	xxx.xxx.xxx.xxx
Primary DNS	xxx.xxx.xxx.xxx
Secondary DNS	xxx.xxx.xxx.xxx
	Is Setting OK?
	Yes
	No

5) Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.

Note

- The range of input numbers is between 0 and 255.
- If you enter a number larger than 255, the number will automatically be 255.
- The manually entered addresses will be saved even if you change the setting to "Auto(DHCP)".
- When you enter a wrong number, press **[RED]** to cancel. (the number will be back to "0".)
- If you want to enter 1 or 2 digit number in one cell, press **[▶]** to move on to the next cell.
- If the entered IP address or the default gateway or primary DNS address is same as the default setting, IP address setting will be set to "Auto(DHCP)". (The manually entered number will be saved).
- When IP address setting is set to "Manual", the setting of DNS setting will automatically be "Manual" and when IP address setting is set to "Auto(DHCP)", you can set either "Auto(DHCP)" or "Manual" for DNS setting.

Proxy Setting

1) Follow steps 1) to 4) in "Connection Test" on page 49.

2) Use [▲ / ▼] to select "Enable(Custom)", then press [OK].

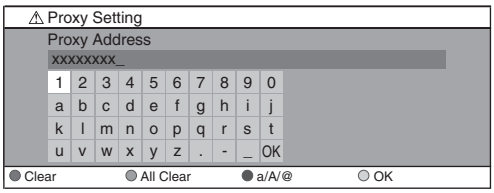
3) Use [▲ / ▼] to select "Proxy Setting", then press [OK].

4) Use [▲ / ▼] to select the desired setting, then press [OK].

- For default settings, select "Do Not Use".
- If you need to change the proxy setting as instructed by your Internet service provider to set the designated proxy address and port, select "Use".

If you select "Use", follow the following instructions to set the proxy address and proxy port.

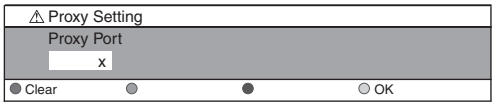
4-a) Proxy address setting screen will appear.
Enter proxy address.
- The keyboard screen will appear.



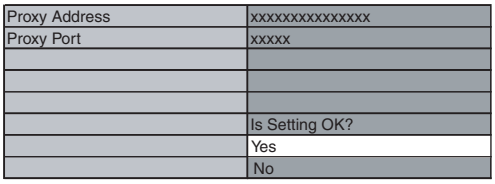
[▲ / ▼ / ◀ / ▶] : Move the highlight.
[the Number buttons] : Enter number.
[OK] : Enter the highlighted number / word.
***[RED]** : Clear the entered number or word.
[GREEN] : Clear all the entered numbers or words.
[BLUE] : Switch between abc, ABC and @!?
***[YELLOW]** : Set the entered number or word.
* These buttons can be used in other network settings.

After you enter all correctly, press [YELLOW] to go to the proxy port setting screen.

4-b) Enter proxy port number with number buttons.



4-c) After you enter all correctly, press **[YELLOW]**.
- Confirmation message will appear. Select "Yes" to complete the settings.



5) Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.

Note

- The range of input numbers for the port number is between 0 and 65535. (If you enter a number larger than 65535, it will be regarded as 65535.)
- For proxy port, certain ports might be closed, blocked or unusable depending on your network environment.
- If the proxy address is entered with blank only, proxy server setting will be set to "Do Not Use".

Connection Speed

You can set connection speed as your preference. (The default setting is "Auto".)

1) **Follow steps 1) to 4) in "Connection Test" on page 49.**
2) **Use [▲ / ▼] to select "Enable(Custom)", then press [OK].**
3) **Use [▲ / ▼] to select "Connection Speed", then press [OK].**
4) **Use [▲ / ▼] to select the desired setting, then press [OK].**

   "Auto":
   Set the appropriate connection speed automatically, in accordance with your network environment.
   "10BASE Half":
   Set the connection speed to "10BASE Half".
   "10BASE Full":
   Set the connection speed to "10BASE Full".
   "100BASE Half":
   Set the connection speed to "100BASE Half".
   "100BASE Full":
   Set the connection speed to "100BASE Full".

5) **Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.**

Note

- Choose a connection speed in accordance with your network environment.
- The network connection may be disabled depending on the device, when the settings are changed.

BD-Live Setting

You can limit Internet access for BD-Live discs. (The default setting is "Allow".)

1) **Follow steps 1) to 4) in "Connection Test" on page 49.**
2) **Use [▲ / ▼] to select "Enable(Custom)", then press [OK].**
3) **Use [▲ / ▼] to select "BD-Live Setting", then press [OK].**
4) **Use [▲ / ▼] to select the desired setting, then press [OK].**

   "Allow":
   Internet access is permitted for all BD-Live contents.
   "Limited Allow":
   Internet access is permitted only for BD-Live contents which have content owner certificates. Internet access without the certificates is prohibited.
   "Prohibit":
   Internet access is prohibited for all BD-Live contents.

5) **Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.**

Network Status

You can check the status of network settings.

1) **Follow steps 1) to 4) in "Connection Test" on page 49.**
2) **Use [▲ / ▼] to select "Enable(Custom)", then press [OK].**
3) **Use [▲ / ▼] to select "Network Status", then press [OK].**
   - Network setting list will be displayed.
   - MAC address of this unit will be displayed in the list.
4) **Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.**

Disable

home → "Settings" → "Advanced Setup" → "Others" → "Network Connection" → "Disable"

Deactivate all the network connection and settings.

1) **Follow steps 1) to 4) in "Connection Test" on page 49.**
2) **Use [▲ / ▼] to select "Disable", then press [OK].**
3) **Use [▲ / ▼] to select "Yes", then press [OK].**
4) **Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.**

Note

- The network connection can be reactivated by setting the network connection to "Enable(Easy)" or "Enable(Custom)".

Software Upgrade

Philips continuously tries to improve its products and we strongly recommend that you upgrade the software when upgrades are available.
New software can be downloaded from our website at *www.philips.com* using the type number of your Home Theater System (e.g. HTS3051BV) to find information.

Disc Upgrade

home → "Settings" → "Advanced Setup" → "Others" → "Software Upgrade" → "Disc Upgrade"

You can upgrade the software by using disc.

1) **Follow steps 1) to 3) in "Connection Test" on page 49.**
2) **Use [▲ / ▼] to select "Software Upgrade", then press [OK].**
3) **Use [▲ / ▼] to select "Disc Upgrade", then press [OK].**
4) **Use [▲ / ▼] to select "Yes", then press [OK].**
5) **Disc tray will open automatically.**
   - Insert the disc for software upgrade and then press **[⏏ (open/close)]**.
6) **After completing loading disc, confirmation message will appear. Use [◄ / ►] to select "Yes" and press [OK] to start upgrading.**
   - It may take a while to complete the upgrading.
7) **After the disc upgrade finishes, this unit will restart and open the disc tray automatically. Remove the disc.**

Note

- Please visit www.philips.com to download the latest software version. Please read the software upgrade Read-me file carefully before performing an upgrade using a disc.
- Please do not unplug the AC power cord while executing the "Disc Upgrade".
- All settings will remain the same even if you upgrade the software version.

Network Upgrade

home → "Settings" → "Advanced Setup" → "Others" → "Software Upgrade" → "Network Upgrade"

You can upgrade the software by connecting the unit to the Internet.

1) **Follow steps 1) to 3) in "Connection Test" on page 49.**
2) **Use [▲ / ▼] to select "Software Upgrade", then press [OK].**
3) **Use [▲ / ▼] to select "Network Upgrade", then press [OK].**
4) **Use [▲ / ▼] to select "Yes", then press [OK].**
   - This unit will then start checking for the latest software version.
5) **Confirmation message will appear. Use [◄ / ►] to select "Yes", then press [OK].**
   - The unit will start downloading the latest software version.
6) **When the download completes, confirmation message will appear. Press [OK].**
   - The unit will start upgrading the software version.
   - It may take a while to complete the upgrading.
7) **After upgrading finishes, this unit will restart and open the disc tray automatically.**

Note

- In order to upgrade the software via the Internet, you must connect the unit to the Internet and set up necessary settings.
- For the network connection, refer to "Network Connection with LAN" on page 22.
- For the network setup, refer to "Network Connection" on page 49.
- Please do not unplug the AC power cord or LAN cable while executing the "Network Upgrade".
- All settings will remain the same even if you upgrade the software version.
- The disc tray will open automatically after upgrading finishes. This is not a malfunction.

Reset to Factory Default

Menus to reset player settings, format SD card, local storage, clear network settings and deactivate VUDU.

1) **Use [▲ / ▼] to select "Settings" in the home menu, then press [OK].**
2) **Use [▲ / ▼] to select "Factory Default", then press [OK].**
3) **Use [▲ / ▼] to select the desired setting, then press [OK].**
   "Settings":
   All the settings except for the "Ratings Lock" and "Network Connection" setting will be reset to default.
   "Format SD Card" (Available only when an SD Memory Card is inserted):
   Initialize the SD Memory Card.
   "Local Storage":
   Local storage for Player or SD card (Available only when an SD Memory Card is inserted) used for BD-Java will be initialized.
   "Network Settings":
   Reset the network setting to the default.
   "Vudu Deactivate":
   Deactivates the connection to VUDU.
4) **Use [▲ / ▼] to select "Yes", then press [OK].**
   - Confirmation message will appear. Press **[OK]** to complete the setting.
5) **Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.**

Note

- Do not remove the SD Memory Card while executing the "Format SD Card" or "Local Storage" (SD card). It will damage the card.
- "Format SD Card" and "Local Storage" (SD card) are not available when a Blu-ray Disc is in the unit.

SOUND SETTINGS

Volume Control

You can control the volume level of the audio output from 5.1ch speakers.

To increase or decrease the volume level :

Press [◿ + / − (volume)].

- The volume level will increase or decrease, every time you press **[◿ + (volume)]** or **[◿ − (volume)]**.
- The volume level will be displayed on the front panel display.

To turn off the volume temporarily :

Press [🔇 (mute)].

- To restore the volume, press **[🔇 (mute)]** again or press **[◿ + / − (volume)]**.
- "MUTE" will be displayed on the front panel display.

Note

- This function is only available for the audio output from 5.1ch speakers.
- Pressing **[◿ + / − (volume)]** does not work while the settings menu is displayed.
- If you turn up the volume too much, the audio may get distorted. To enjoy clear sounds, please turn down the volume.

Selecting Surround Mode

Select the surround mode for the audio output from 5.1ch speakers.

1) During playback, press [SURROUND] repeatedly to select the desired surround mode.

"Off":
Turns off virtual surround modes and enables 2ch PCM or multi-channel Dolby or DTS sound modes depending on source audio.

"2.1ch Stereo":
Set the surround mode to "2.1ch Stereo".
(2.1ch Stereo sound from front left/right speakers.)

"Multi ch Stereo":
Set the surround mode to "Multi ch Stereo".
(5.1ch stereo sound from 5.1ch speakers.)

"Dolby Pro Logic II Movie":
Set the surround mode to "Dolby Pro Logic II Movie".
(Dolby Pro Logic II 5.1ch surround sound.)

"Dolby Pro Logic II Music":
Set the surround mode to "Dolby Pro Logic II Music".
(Dolby Pro Logic II 5.1ch surround sound.)

Note

- The availability of surround sound modes will depend on the audio source.
- In disc or SD card mode, pressing **[SURROUND]** does not work while in the Resume-On-Stop mode.
- In FM mode, pressing **[SURROUND]** does not work when no audio is being input.
- Pressing **[SURROUND]** does not work during playback of JPEG files.
- This function is effective only for the audio output from 5.1ch speakers.
- The volume will be restored If you press **[SURROUND]** when the audio is muted.
- For mulch-channel audio, "Multi ch Stereo", "Dolby Pro Logic II Movie" or "Dolby Pro Logic II Music" cannot be set.

Selecting Sound Effect Mode

Select the sound effect mode for the audio output from 5.1ch speakers to suit your video or music.

1) During playback, press [SOUND MODE] repeatedly to select the desired sound effect mode.

Video	Music	Description
Off	Off	Turns off the sound effect mode.
Action	Rock	Enhanced low and high-range. Ideal for action movies and rock or pop music.
Drama	Jazz	Clear mid and high-range. Ideal for drama movies and jazz music.
Concert	Classic	Neutral sound. Ideal for live concerts and classical music.
Sports	Sports	Moderate mid-range and surround effects for clear vocals and the atmosphere of a live sport venue.

Note

- In disc or SD card mode, pressing **[SOUND MODE]** does not work while in the Resume-On-Stop mode.
- In FM mode, pressing **[SOUND MODE]** does not work when no audio is being input.
- Pressing **[SOUND MODE]** does not work during playback of JPEG files.
- This function is effective only for the audio output from 5.1ch speakers.
- The volume will be restored if you press **[SOUND MODE]** when the audio is muted.

OTHER SETTINGS

Switching Active Source Mode

You can change the active source mode to the desired external audio inputs and enjoy audio from the connected device with the multi-channel surround sound capabilities.

1) **Press [⌂ (home)] to access the home menu.**
2) **Use [▲ / ▼] to select "External audio input", then press [OK].**
3) **Use [▲ / ▼] to select the desired source mode, then press press [OK].**

"Aux1":
Set the active source mode to the AUDIO IN(AUX1).
"Aux2":
Set the active source mode to the AUDIO IN(AUX2).
"Coaxial":
Set the active source mode to the DIGITAL AUDIO IN (COAXIAL).
"MP3 Link":
Set the active source mode to the MP3 LINK jack.

4) **Press [BACK ⮌] to go back to the previous screen, or press [⌂ (home)] to go back to the home menu.**

Note

- You can also change the active source mode by pressing **[SOURCE]** repeatedly. (Home Menu (Disc / SD card), "Aux1", "Aux2", "Coaxial", "MP3 Link" or "FM".)

Sleep Timer

The sleep timer enables the unit to switch to the standby mode automatically after the selected preset time.

To set the sleep timer :
Press [SLEEP] repeatedly to select the desired preset time.

"SLP OFF":
Turns off the sleep timer.
"SLP 15":
Set the preset turn-off time to 15 minutes.
"SLP 30":
Set the preset turn-off time to 30 minutes.
"SLP 60":
Set the preset turn-off time to 60 minutes.
"SLP 90":
Set the preset turn-off time to 90 minutes.
"SLP 120":
Set the preset turn-off time to 120 minutes.
"SLP 150":
Set the preset turn-off time to 150 minutes.

To check or change the setting :
Press **[SLEEP]** once to display the remaining time.
To change the setting, press **[SLEEP]** repeatedly until your desired preset time is displayed.

To cancel sleep timer :
Press **[SLEEP]** repeatedly until "SLP OFF" is displayed.

Note

- The sleep timer will be activated even if the unit is in operation.
- Pressing **[SLEEP]** does not work while the settings menu is displayed.

TROUBLESHOOTING

	Problem	Tip
POWER	No reaction to the remote control.	Connect the product to the power outlet.
		Point the remote control at the product.
		Insert the batteries correctly.
		Insert new batteries in the remote control.
	No video signal on the display device.	Turn on the TV.
		Set the TV to the correct external input.
		Select the correct video resolution in the "HDMI Video Resolution" in the settings menu.
		Press and hold **[► (play)]** on the front panel for 5 seconds to change the setting back to its default.
	No audio / video signal on the display device via HDMI cable.	If the unit is connected to the unauthorized display device with an HDMI cable, the audio / video signal may not be output.
		Perform an HDMI cable hotplug, wherein you disconnect the HDMI cable from the TV and this unit and then reconnect it to both the devices while they are powered on.
		Ensure that your HDMI cable is certified.
	No high-definition video signal on the TV.	Does the disc contain high-definition video? High-definition video is not available when the disc does not contain it.
		Does the TV support high-definition video? High-definition video is not available when the TV does not support it.
	No audio signal from the loudspeakers of the TV connected via an HDMI cable.	Set "Audio Output" to "HDMI Normal" or "HDMI LPCM" in the settings menu.
		Ensure that the TV's speakers are turned on in the TV menu.
		Ensure that the TV speakers are not muted.
	No audio from the speaker system.	Increase the volume level of the speaker system.
		Set "Audio Output" to "Speakers" in the settings menu.
		Make sure that audio is not muted.
		Make sure you have selected the correct active source for external audio input.
GENERAL	No 5.1-channel audio from the speaker system.	Does the disc contain 5.1-channel audio? The 5.1-channel audio is not available when the disc does not contain it.
		Set "Audio Output" to "Speakers" in the settings menu.
		Make sure that the surround mode is not set to "2.1ch Stereo". When listening to a stereo (2 channel) source, press **[SURROUND]** and select "Dolby Pro Logic II Music" or "Dolby Pro Logic II Movie" to upmix the stereo source to 5.1 channel surround.
	When I press the **[SURROUND]** button on my HTS remote while playing movies, I only get "Off" and "2.1ch Stereo" as available surround modes.	-Most movies have multi-channel audio tracks, i.e. 5.1 channel or 7.1 channel audio in DTS®, Dolby or PCM. Virtual surround modes such as "Multi ch Stereo", "Dolby Pro Logic II Movie" or "Dolby Pro Logic II Music" are not available (and not necessary) when the source audio is already multi-channel. It is best to use **Surround = Off** in such cases as it enables the appropriate multi-channel decoder.
	Cannot play back a disc.	Make sure that the product supports the disc.
		Check the region code of the disc. This unit supports following region codes. -BD : "A" -DVD : "ALL" or "1" for HTS3051BV/F7 (USA / Canada) "ALL" or "4" for HTS3051BV/F8 (Mexico)
		For DVD-RW/-R, make sure that the disc is finalized.
		Clean the disc.
	SD Memory Card cannot be read.	The format of the card does not match that accepted by this unit or the card is not compatible.
	Cannot play back JPEG files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format.
	Cannot play back MP3 files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format.
		Make sure that the bit rate of the MP3 files is between 112 and 320 kbps.
		Make sure that the sample rate of the MP3 files is 32 kHz, 44.1 kHz or 48 kHz.
	Cannot play back Windows Media™ Audio files from a disc.	Make sure that the sample rate of the Windows Media™ Audio files is 44.1 kHz or 48 kHz.

	Problem	Tip
GENERAL	in the upper right hand corner of the TV screen.	The operation is not possible.
	Buttons do not work or the unit stops responding.	To completely reset the unit, press and hold **[⏻ (standby/on)]** on the front panel for 10 seconds to shut down the unit or unplug the AC cord from the AC outlet for 15-20 seconds.
	Cannot find a JPEG file.	Make sure that the selected group (folder) does not contain more than 9,999 files for BD / DVD / SD card, and 999 files for CD.
		Make sure that the file extension is .jpg, .JPG, .jpeg or .JPEG.
	Cannot find an MP3 and Windows Media™ Audio file.	Make sure that the selected folder does not contain more than 9,999 files for BD / DVD / SD card, and 999 files for CD.
		Make sure that the file extension is .mp3 or .MP3 for MP3, and .wma or .WMA for Windows Media™ Audio.
	Error message appears when I select "Auto" in the "Player Menu".	Make sure that the unit is connected to the PHILIPS brand EasyLink TV and the "EasyLink (HDMI CEC)" is set to "On".
		This error message may appear when your TV's OSD language is not supported by this unit.
	Cannot connect to the network.	Check if the LAN cable connection is properly made.
		Turn on the modem or broadband router.
		Check the network settings.
		Check if the broadband router and/or modem is correctly connected.
		Check the "BD-Live Setting".
		When connecting directly to a modem via a LAN cable, you might need to power cycle the modem to reset settings on the modem.
	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.
	The capacity of the SD card decreased.	Data may be written to the SD card when a BD-video that supports the virtual package is used and an SD card is in the slot.
	MPEG-2 video and audio on the SD card cannot be played back.	MPEG-2 is noncompliant on this unit.
	The contents of the card cannot be read.	The card is not compatible or the contents on the card may be damaged.
		Turn off and then turn the unit on again.
	Cannot use the BD-Live function or download of data does not perform properly.	Insert an SD card with enough capacity(1GB or more).
		Check if an SD card is correctly inserted.
		Make sure the write-protect switch on the SD card is not enabled.
	Cannot play back BD-video (BD-ROM Profile 2.0).	Insert an SD card(1GB or more) which is formatted on this unit. Some discs with BD-Live function require memory when playing back the content.
		Do not remove the card during playback.
		Make sure the write-protect switch on the SD card is not enabled.
	Cannot use the VUDU service.	Check if the network connection is properly made.
	Cannot rent or buy movies / TV shows on VUDU.	You need to activate the VUDU account. (Refer to page 37)
		Log into your account at http://my.vudu.com and check your payment information.
	The picture quality of VUDU movie is poor.	Check the speed of your Internet connection. You need speeds of of at least 8 Mbps to this player for high quality uninterrupted playback.
	VUDU movie often stops or starts buffering during playback.	Contact your Internet service provider to troubleshoot your Internet connection for speed and line quality. Consistent line quality and speed are very important for Internet video playback.
	Radio reception is poor.	If the signal is too weak, adjust the antenna or connect an external antenna for better reception.
		Increase the distance between this unit and your TV or VCR.
		Tune in to the correct frequency.
		Place the antenna further away from any equipment that may be causing the interference.

Downloading an Electronic Copy

To obtain an electronic copy of this manual :

1) Point your browser to www.philips.com/support.
2) Choose your country of location.
3) Enter the model number or a keyword in the "Find your product" field. Alternatively, you can browse the catalog.
4) Click the description or model.
5) Under Product support, click "User manuals".

Contact Us

If you cannot resolve your problem, refer to the FAQ for this Home Theater System at **www.philips.com/support**.
If the problem remains unresolved, contact the Customer Support Center in your country.

Note

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

GLOSSARY

Analog Audio

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

Aspect Ratio

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

BD-Live

BD-Live is a BD-video (BD-ROM version 2 Profile 2.0) which contains new functions (e.g. Internet connection), in addition to the BONUSVIEW function.

Blu-ray Disc (BD)

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

Chapter

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

Component Video Output

Each signal of luminance (Y) and component (P_B/C_B, P_R/C_R) is independent to output so that you can experience picture color as it is.
Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio

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

DNS Server

A server which translates Internet domain names into IP addresses.

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 Pro Logic II

Dolby Pro Logic II technology processes any high quality stereo (two-channel) movie and music audio into five playback channels of full-bandwidth surround sound.
A matrix surround decoding technology, Dolby Pro Logic II detects the directional cues that occur naturally in stereo content and uses these elements to create a five-channel surround sound playback experience.

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.

Gateway

IP address of the electronic devices (such as router) which provide Internet access.

HDMI (High Definition Multimedia Interface)

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

Hub

A device used for connecting multiple device to the network.

IP Address

A set of numbers which are assigned to devices participating in a computer network.

JPEG (Joint Photographic Experts Group)

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

LAN (Local Area Network)

A group of computer networks covering a small area like a company, school or home.

Local Storage

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

MP3 (MPEG audio layer 3)

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

PCM (Pulse Code Modulation)

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

Proxy Server

Proxy server is a server which acts as an intermediary between a workstation user and the Internet to ensure security.

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).

Router

A networking device which distinguishes the IP address assigned to each device and routing and forwarding information in the computer network.

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.

Subnet Mask

A mask which is used to determine what subnet an IP address belongs to.

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”.

Virtual Package

The function which copies data to other media (local storage) from the Internet and plays secondary video, secondary audio and subtitles at the same time. The method of the playback varies depending on discs.

VUDU

VUDU is a leading HD on-demand video service which utilizes the Internet connection to deliver the highest quality on-demand video and Internet applications.

Windows Media™ Audio

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

SPECIFICATIONS

General	
Signal system	NTSC Color
Power requirements	120 V AC, 60 Hz
Power consumption	70 W (standby: 0.6 W)
Total output power (Amplifier)	Home theater mode: 1000 W FTC* output power : 700 W *(Main Ch @ 1 kHz within 10% THD, Sub Ch 60 Hz within 2.5% THD)
Dimensions (width x height x depth)	17.2 x 2.4 x 11.7 inches (435 x 59 x 297 mm)
Weight	Total weight: 27.56 lbs. (12.5 kg) Main unit: 8.16 lbs. (3.7 kg)
Operating temperature	41°F (5°C) to 104°F (40°C)
Operating humidity	Less than 80 % (no condensation)

Terminals		
Front	**SD card slot** slot x 1	
	MP3 LINK jack mini jack x 1	500 mVp-p (75Ω)
Rear	**Analog audio output (SPEAKERS (4Ω))**	
	Front and rear speakers	System: Full range satellite Impedance: 4Ω Frequency response: 180 Hz ~ 20 kHz Dimensions: 3.9 x 5.1 x 4 inches (100 x 130 x 100.5 mm) Speaker cable length: front - 118.1 inches (3000 mm) rear - 360.2 inches (9150 mm) Weight: front - 1.19 lbs. (0.54 kg) rear - 1.13 lbs. (0.51 kg)
	Center speaker	System: Full range satellite Impedance: 4Ω Frequency response: 180 Hz ~ 20 kHz Dimensions: 3.9 x 5.1 x 4 inches (100 x 130 x 100.5 mm) Speaker cable length: 118.1 inches (3000 mm) Weight: 1.61 lbs. (0.73 kg)
	Subwoofer	Impedance: 4Ω Speaker drivers: 6.5 inches (160 mm) woofer Frequency response: 60 Hz ~ 150 Hz Dimensions: 5.9 x 12.2 x 12.1 inches (149.5 x 310.5 x 308 mm) Speaker cable length: 169.3 inches (4300 mm) Weight: 8.29 lbs. (3.76 kg)
	Video output RCA jack x 1	1 Vp-p (75Ω)
	Component video output RCA jack x 3	Y: 1 Vp-p (75Ω) P_B: 700 mVp-p (75Ω) P_R: 700 mVp-p (75Ω)
	Analog audio input (AUX1 / AUX2) RCA jacks(L / R) x 2	L/R: 2 Vrms (47kΩ)
	Digital audio input (COAXIAL) RCA jack x 1	500 mVp-p (75Ω)
	HDMI output HDMI jack x 1	Video: 480p, 720p, 1080i, 1080p, 1080p24/Audio
	LAN terminal	10BASE-T / 100BASE-TX
	RADIO FM ANT 75Ω jack × 1	Tuning range: FM 87.5 - 108 MHz (100kHz) Antenna terminal: 75Ω (unbalanced)

Note

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

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ONE (1) YEAR LIMITED WARRANTY

WARRANTY COVERAGE:
This warranty obligation is limited to the terms set forth below.

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

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

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

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

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-Philips product, (b) to damage caused by service performed by anyone other than an Authorized Service Location, (c) to a product or a part that has been modified without written permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished Philips product sold "AS IS" by some retailers.

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

TO OBTAIN ASSISTANCE IN THE U.S.A., CANADA, PUERTO RICO, OR U.S. VIRGIN ISLANDS...
Contact Customer Care Center at:
1-866-309-0866

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