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HTS5100B

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(y número de model / serial)

EN

BLU-RAY DISC HOME THEATER



PRECAUTIONS

Safety Instructions

The model and serial numbers of this unit may be found on the cabinet.
You should record and retain those numbers for future reference.

Model No.: _____

Serial No.: _____

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



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

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



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



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

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

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 manufacture'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.

PRECAUTIONS

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: Visible and invisible laser radiation when open and inter lock defeated. Do not stare into beam.

LOCATION: Inside, near the deck mechanism.

IMPORTANT COPYRIGHT INFORMATION

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

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.

To Avoid the Hazards of Electrical Shock and Fire

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

Location and Handling

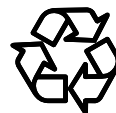
- Do not install the unit in direct sunlight, near strong magnetic fields, or in a place subject to dust or strong vibration.
- Avoid a place with drastic temperature changes.
- Install the unit in a horizontal and stable position. Do not place anything directly on top or bottom of the unit. Depending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

Dew Condensation Warning

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

Note about Recycling

- This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.
- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.



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.



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

PRECAUTIONS

Maintenance

Servicing

- Please refer to relevant topics on “TROUBLESHOOTING” on page 49 before returning the product.
- If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you. For online reference, please visit our web site at <http://www.philips.com/welcome>

Cleaning the cabinet

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

Cleaning discs

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

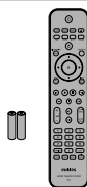
Cleaning the disc lens

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

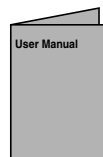
Disc handling

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

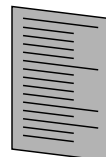
Supplied Accessories



Remote Control
with Batteries
(AAAx2)



User Manual



Quick Start Guide



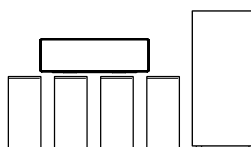
Registration Card



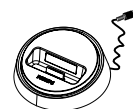
RCA Video
Cable



FM Wire
Antenna



1 Center, 2 Front, 2 Rear
Speakers and Subwoofer



Docking Station

PRECAUTIONS

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BONUS VIEW™

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"BD-LIVE" logo is trademark of Blu-ray Disc Association.



iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

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 is a trademark of DVD Format/Logo Licensing Corporation.

Introduction

Connections

Basic Setup

Playback

Radio Tuning

Function Setup

Others

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FEATURES

Watch movies in the highest picture quality available for your HDTV. The HTS5100B Blu-ray Disc Home Theater offers full high-definition video playback up to 1080p resolution for an amazing viewing experience. A highly detailed picture and increased sharpness delivers a more true-to-life picture.

Features

Blu-ray Disc

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.

Upscale DVD for enhanced picture quality

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

Enjoy your content on different kinds of media

Full backwards compatibility with DVD, CD 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 the rich multi-channel surround sound

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

Intuitive user interface and remote control

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

Easy and simple connection to your HDTV via HDMI

Connect your HTS5100B 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 an excellent picture and sound quality, completely free from noise.

About EasyLink (CEC) (Consumer Electronics Control)

EasyLink (CEC) allows you to operate the linked functions of this player with Philips brand TV with EasyLink feature. *Philips does not guarantee 100 % interoperability with other brands of HDMI CEC compliant devices.*

PiP (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 screen without interrupting the playback. You can call up the pop-up menu by pressing [DISC MENU / POP-UP MENU]. Contents in the pop-up menu vary depending on the disc.

HDMI Deep Color

Deep Color reduces the posterization effect of the playback image. Refer to "Deep Color" in the "LIST OF SETTINGS" on page 34.

HDMI 1080p/24 output (BD only)

This unit is equipped with the feature which can provide the smooth movement in the playback of film originated material with the frame rate of 24 frames per second with progressive. (Available only when the display device is connected by an HDMI cable.)








Refer to "BD-Video 24p Output" in the "LIST OF SETTINGS" on page 38.

Playing back the contents in SD Memory Card

You can play back MP3/WMA/JPEGs stored in an SD Memory Card. You can store picture-in-picture commentary, subtitles or other extras for BD-ROM Ver. 2 (Profile 2.0/ Profile 1.1) files in an SD Memory Card and play back with the BD-video.

Symbols Used in this User Manual

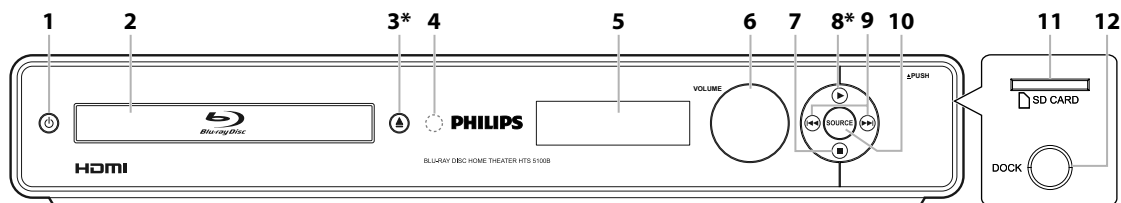
To specify for which media type each function is, we put the following symbols at the beginning of each item to operate.

Symbol	Description
	Description refers to BD-video
	Description refers to DVD-video
	Description refers to audio CD/DTS-CD
	Description refers to BD-RE/-R, DVD-RW/-R and CD-RW/-R with DivX® files
	Description refers to DVD-RW/-R, CD-RW/-R and SD Card with MP3 files
	Description refers to DVD-RW/-R, CD-RW/-R and SD Card with Windows Media™ Audio files
	Description refers to 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.

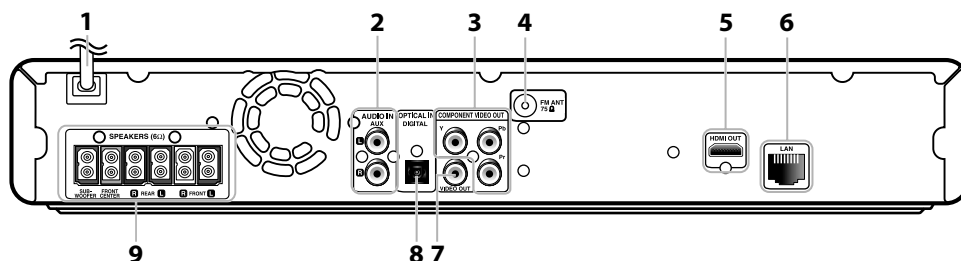
1. **⏻ (STANDBY-ON) button**
 - Press to turn on the unit, or to turn the unit into the standby mode. (To completely shut down the unit, you must unplug the AC power cord.)
2. **Disc tray**
 - Place a disc when opening the disc tray.
3. **⏮ (OPEN/CLOSE) button***
 - Press to open or close the disc tray.
4. **Infrared sensor window**
 - Receive signals from your remote control so that you can control the unit from a distance.
5. **Display**
 - Refer to "Front Panel Display" on page 11.
6. **VOLUME jog**
 - Rotate to adjust the volume.
7. **■ (STOP) button**
 - Press to stop playback.

8. **▶ (PLAY) button***
 - Press to start or resume playback.
9. **⏮ / ⏭ (PREV/NEXT) button**
 - Press to skip to the previous or next title/chapter/track.
10. **SOURCE button**
 - Press to select the relevant active source mode; "DISC", "AUX", "FM", "iPod" or "D-IN".

The following jacks are under the flap at the right corner of the front panel.

11. **SD CARD slot**
 - Insert an SD Memory Card and play back the contents in it.
12. **iPod DOCK jack**
 - Use to connect to the iPod docking station.

Rear Panel

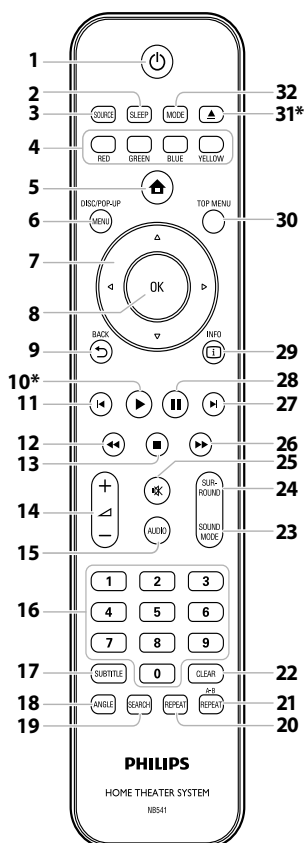


1. **AC Power Cord**
 - Connect to a standard AC outlet to supply power to this unit.
 - Unplug this cord from the AC outlet to completely shut down the unit.
2. **AUDIO IN (AUX) jacks**
 - Use to connect to other device with audio out jacks with an RCA audio cable.
3. **COMPONENT VIDEO OUT jacks**
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

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 select the relevant active source mode; "DISC", "AUX", "FM", "iPod" or "D-IN".

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

- Press to display the disc menu / pop-up menu.

7. Cursor 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. PREV button

DISC:

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

RADIO:

- Press to select a preset radio station.

12. REW button

- During playback, press to fast reverse the playback.

13. STOP button

DISC:

- Press to stop playback.

RADIO:

- Press and hold this button to erase the current preset radio station.

14. VOL + / - button

- Press to adjust the volume.

15. AUDIO button

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

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

- Press to clear the information once entered, to clear the marker settings, or to cancel the programming for audio CD, etc.

23. SOUND MODE button

- Press to select a sound mode.

24. SURROUND button

- Press to select surround listening mode.

25. MUTE button

- Press to mute the volume.

26. FFW button

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

27. NEXT button

DISC:

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

RADIO:

- Press to select a preset radio station.

FUNCTIONAL OVERVIEW

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

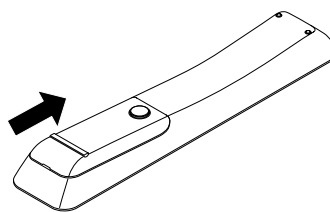
DISC:

- During BD playback, press to switch the picture-in-picture feature on or off (only applicable to BD-video which supports the PiP function).
- In stop mode with BD inserted, press to display a menu for setting the BD audio mode.
- In stop mode with audio CD, MP3, WMA or JPEG files inserted, press to display menus for program and random playback.
- During the JPEG playback, press to display menus for changing the visual effect for switching the image or changing the size of the image.

RADIO:

- Switch between stereo and mono mode. (Only available during playback of stereo broadcasting.)

3) Close the cover.



Note

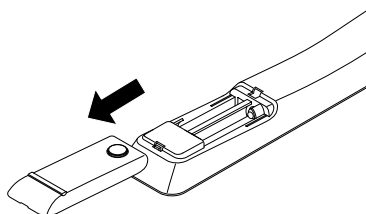
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- 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.

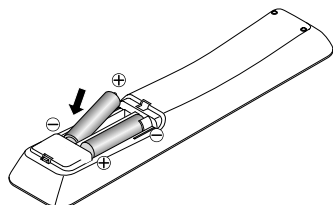
Installing the Batteries in the Remote Control

Install the batteries (AAAx2) matching the polarity indicated inside battery compartment of the remote control.

1) Open the cover.



2) Insert batteries.

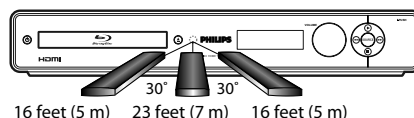


Make sure to match + and - on the batteries to the marks indicated in the battery compartment.

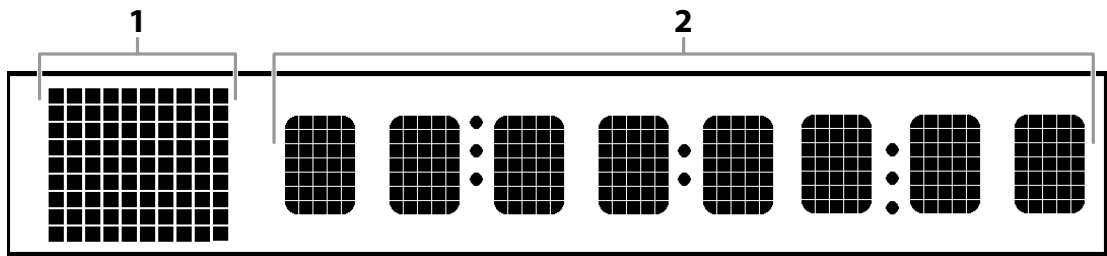
Using a Remote Control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
 - **Line of sight:**
approx. 23 feet (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 “Display Dim” in “LIST OF SETTINGS” on page 33.

- 1. Displays source mode status icon and playback status icon. Refer to the table below.
- 2. Displays various kinds of information such as title number, elapsed playing time, repeat type, menu type, etc.

Source mode status icon	Mode
Playback status icon will be displayed	DISC mode
	AUX mode
	FM mode
	iPod mode
	D-IN mode

Playback status icon		Mode
Disc	SD Memory Card	
		Playback is in progress
		Stop mode
		Pause mode
		Fast forward mode
		Fast reverse mode
		Slow forward mode
		Loading a media
		Appears while repeat function is set
		Appears while displaying the home menu

e.g.;



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



Current chapter is in chapter repeat mode.

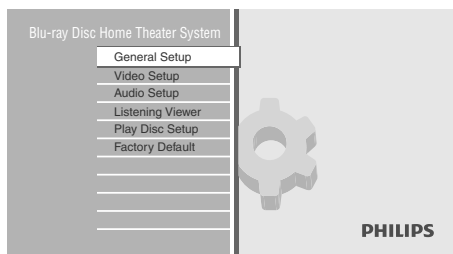


Loading a disc.

Guide to On-Screen Display

Home Menu

To call up the home menu, press **[HOME ▲]** in stop mode.



“General Setup” : To access the general setup menus.

“Video Setup” : To access the video setup menus.

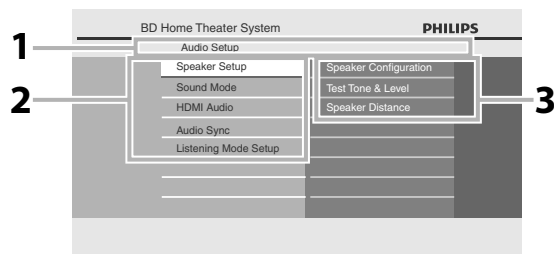
“Audio Setup” : To access the audio setup menus.

“Listening Viewer” : To access the setting status screen of listening mode setup.

“Play Disc Setup” : To access the play disc setup menus.

“Factory Default” : To access the factory default setup menu.

Menu Screen



1. Directory

Displays the current hierarchy.

2. Menus

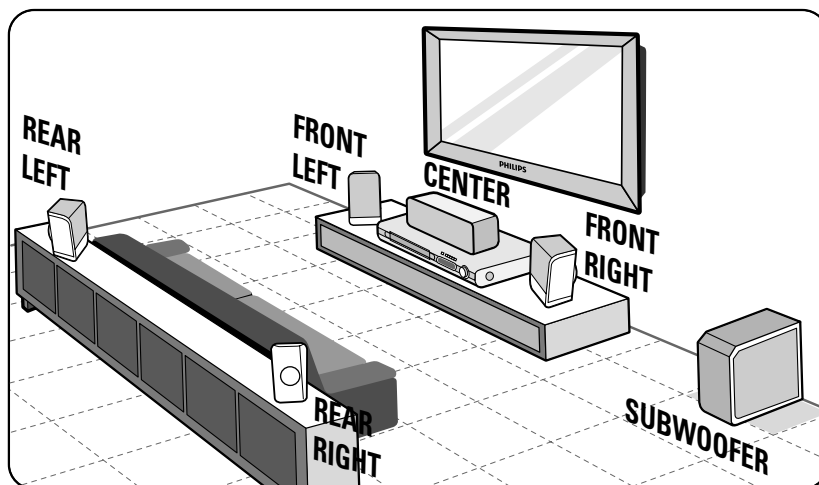
3. Options

Displays options for the high-lighted 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 front left and right speakers at equal distances from the TV and at an angle of approximately 45 degrees from the listening position.
- 2) Place the center speaker above the TV or the main unit so that the center channel's sound is localized.
- 3) Place the rear speakers at normal listening ear level facing each other or hang on the wall.
- 4) Place the subwoofer at the corner of the room. Otherwise, keep it at least one meter away from the TV.

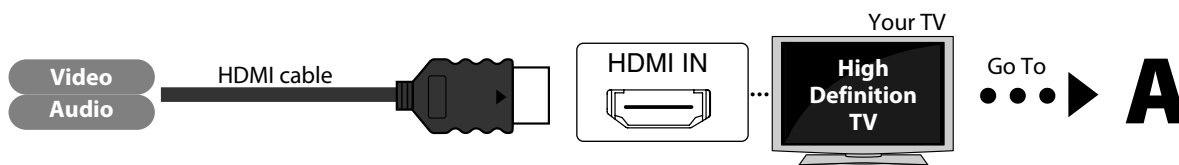
Note

- 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 35.

Connection to the TV

- 1 Choose the appropriate connection, then proceed to the corresponding instruction (A, B or C) on the next page.

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



No analog audio connection required.

(*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.

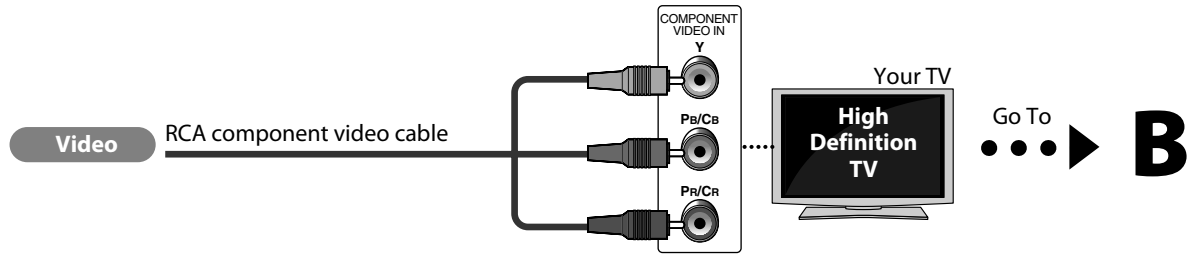
No supplied cables are used in this connection:

Please purchase the necessary cables at your local store.

High Speed HDMI Cable (also known as HDMI category 2 cable) is recommended for the better compatibility.

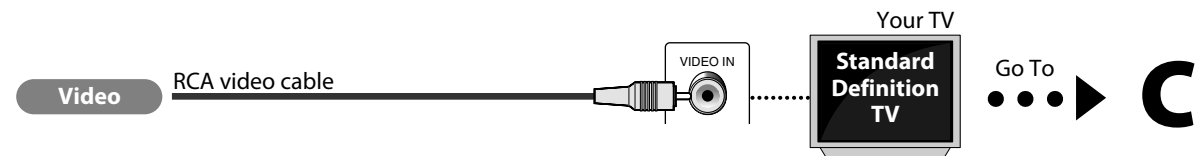
CONNECTIONS

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.)



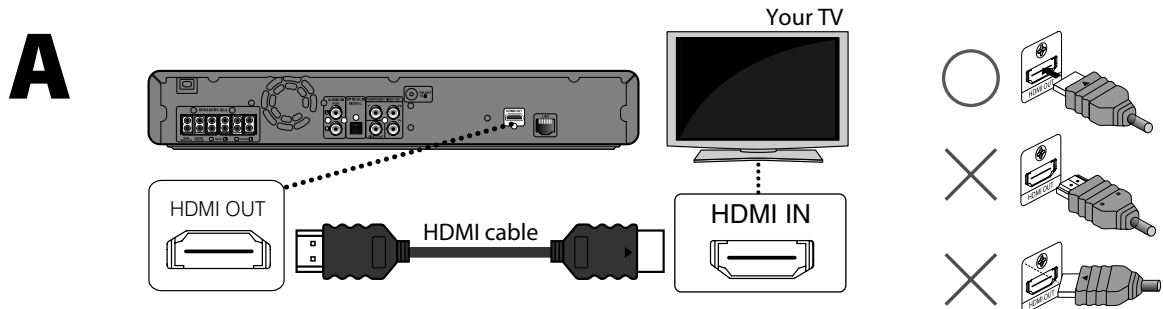
- Connect this unit directly to the TV. If the RCA audio / video cables are connected to a VCR, pictures may be distorted due to the copy right protection system.

Supplied cables used in this connection are as follows:

- RCA video cable x 1

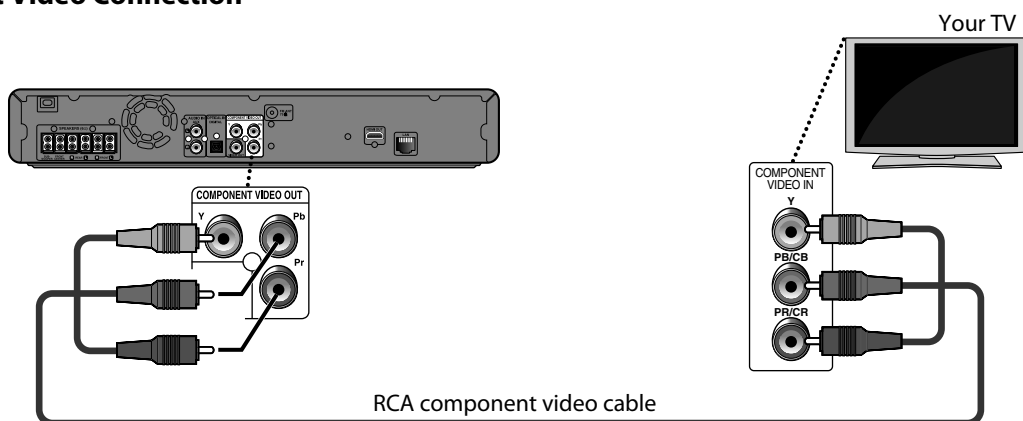
2 Connect the cables by following the descriptions below.

HDMI Connection



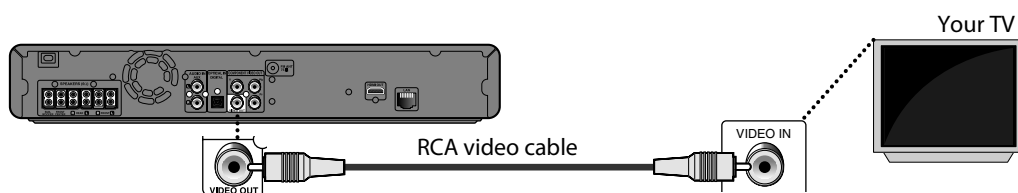
Component Video Connection

B



Standard Video Connection

C



Copyright protection system

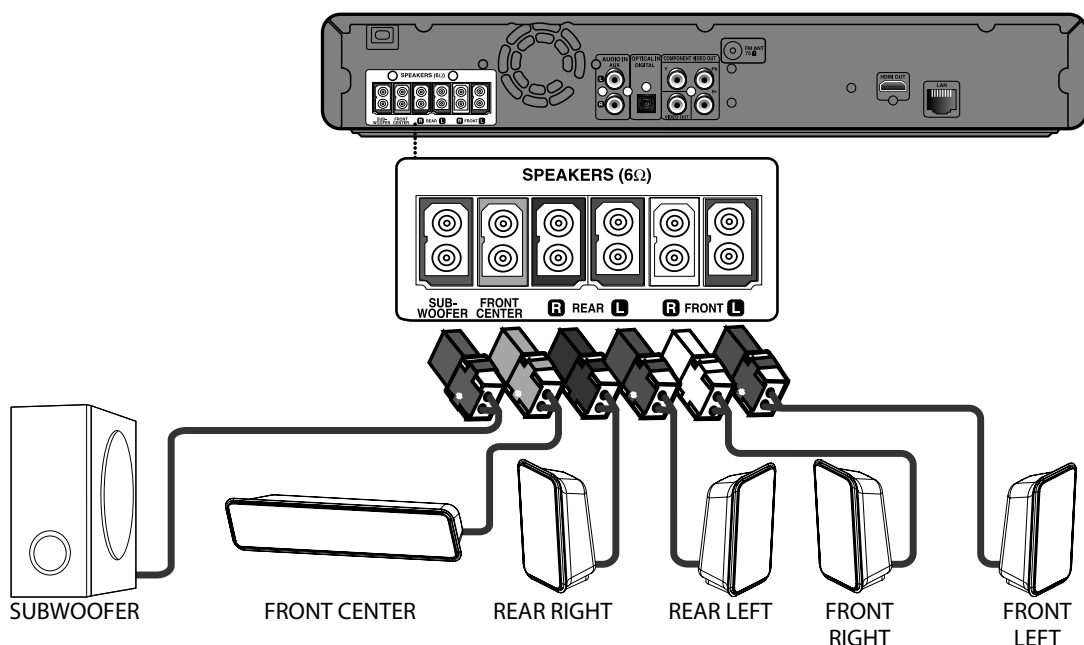
To play back the digital video images of a BD-video or DVD-video via an HDMI connection, it is necessary that both the player and the display device (or an AV receiver / amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection 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 using HDCP-incompatible display device, the picture will not be viewed properly.
- The audio signals from the HDMI jack (including the sampling frequency, the number of channels and bit length) 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). In connections with device such as this unit, audio signals are not output from the HDMI output jack.
- When this unit's HDMI jack is connected to a DVI-D compatible display device(s) (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.

CONNECTIONS

Connecting Speakers and Subwoofer

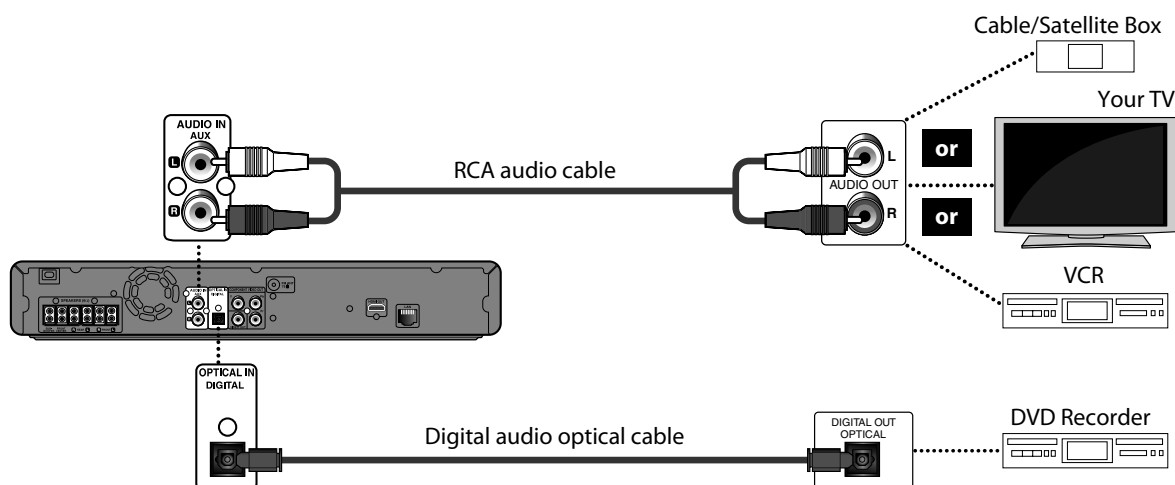


- 1) Connect the speaker cables to the matching color sockets on the speakers or speaker stands.
- 2) Connect all the speakers and subwoofer to the matching sockets at the rear of the main unit. Make sure that the colors of the cables and sockets are matched.

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 a RCA audio cable (not supplied) to connect the AUDIO IN (AUX) jacks on the main unit to the AUDIO OUT jacks on the connected device.

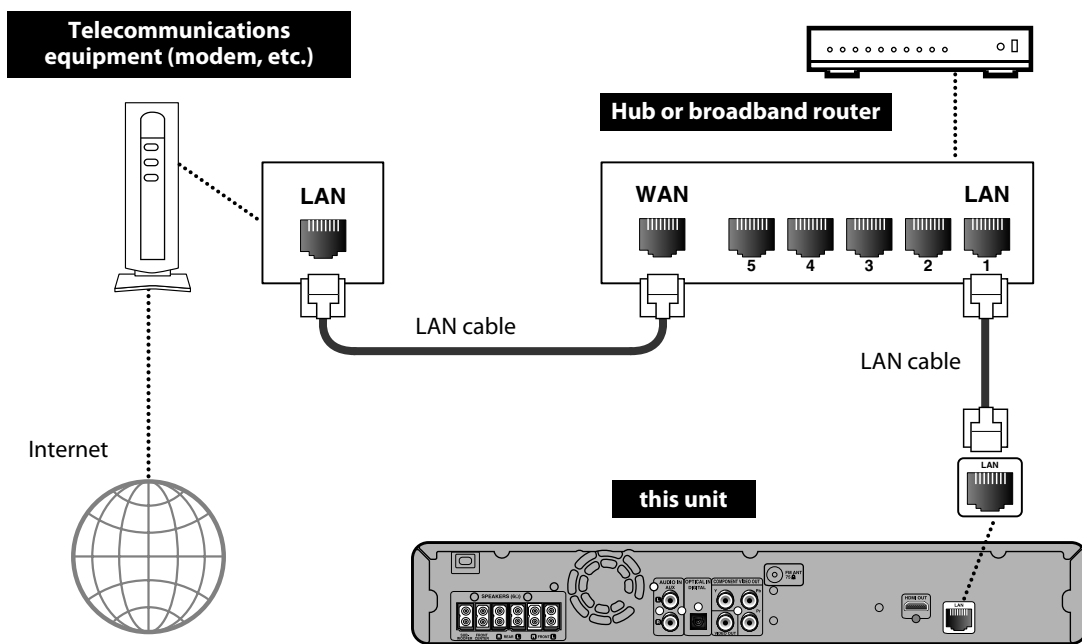
To listen to the audio output from this connection, press **[SOURCE]** repeatedly until "AUX" appears on the front panel display.

No supplied cables are used in this connection:

Please purchase the necessary cables at your local store.

Network Connection with LAN

- You can use a disc which offers BD-Live function by connecting the unit to the Internet.
(For BD-Live information, please refer to page 28)



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

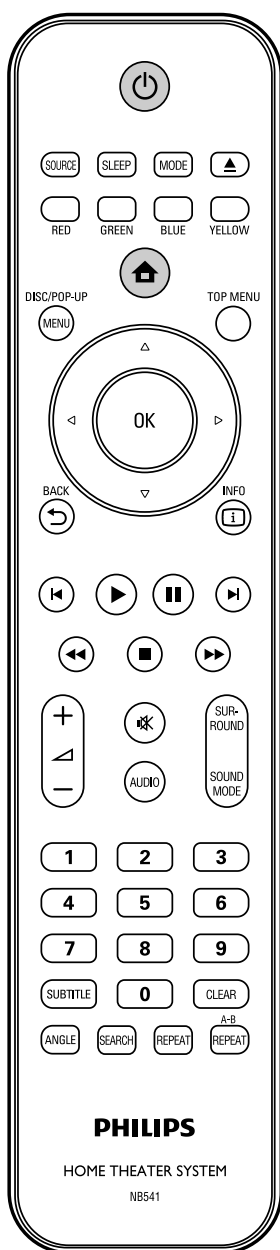
Note


- After connecting to the Internet, set up necessary network settings.
- 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.
- For the network setup, refer to "Network Connection" on page 44.

BEFORE YOU START

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

Finding the Viewing Channel on Your TV



1 After you have made all the necessary connections, press [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).

To call up the home menu, press [HOME ].

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.)	
DVD-video	
DVD-RW (finalized video mode discs only)	
DVD-R (finalized video mode discs only)	
CD-DA (audio CD)	
CD-RW	 
CD-R	 
DTS-CD	-

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

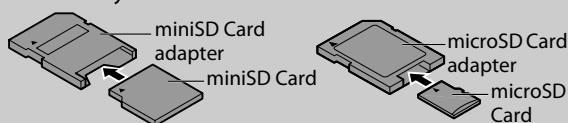
Playable files	Media
DivX®	BD-RE/-R DVD-RW/-R CD-RW/-R
MP3	DVD-RW/-R CD-RW/-R
Windows Media™ Audio	SD Memory Card (including SDHC)
JPEG	miniSD Card microSD Card

- **ABOUT DIVX VIDEO:** DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- **ABOUT DIVX VIDEO-ON-DEMAND:** This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
- **Official DivX® Certified product;** Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.
- Discs containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.
- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).

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

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 the 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, the 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.

Introduction

Connections

Basic Setup

Playback

Radio Tuning

Function Setup

Others

INFORMATION ON PLAYBACK

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)
- Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.
- Playability of dual discs are not guaranteed.

Color Systems

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

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

Region Codes

This unit has been designed to play back BD-video with region "A" and DVD-video with region "1" or "ALL". You cannot play back BD-video or DVD-video that are labeled for other regions. Look for the symbols on the right on your BD-video or DVD-video.

If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world. A BD-video or DVD-video labeled for a specific region can only be played back in the unit with the same region code.

BD-video

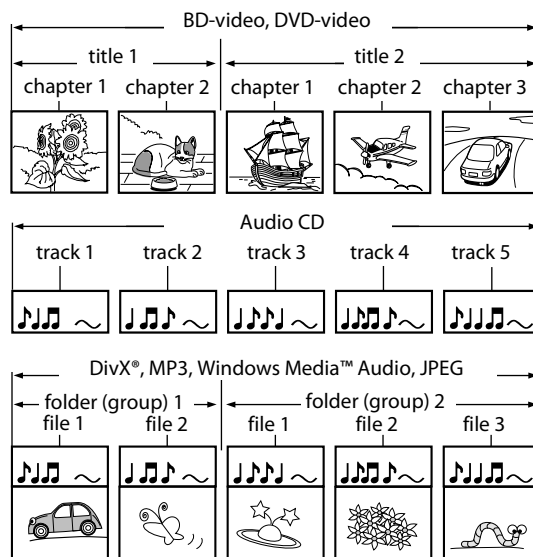


DVD-video



Hint for Disc Playback

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



Description for Icons

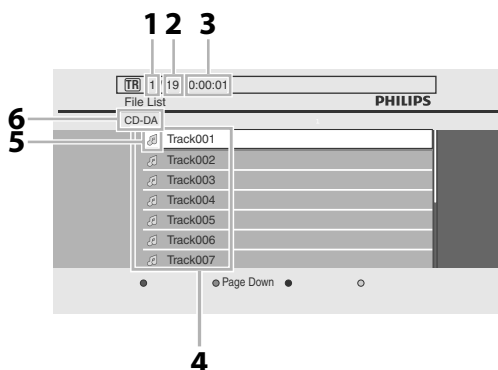
- [Folder icon] : group (folder) icon
- [Video icon] : video file icon
- [Music icon] : music file icon
- [Image icon] : picture file icon
- "Folders" refers to the groups of files.
- "Tracks" refers to the contents recorded on the audio CD.
- "Files" refers to the contents on a disc which are recorded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

Note

- Unrecognizable characters will be replaced by "□".
- For DVD and SD Card, this unit can recognize up to 999 groups (folders), and 9999 tracks / files.
- For CD, this unit can recognize up to 255 groups (folders), and 999 tracks / files.

Guide to File List

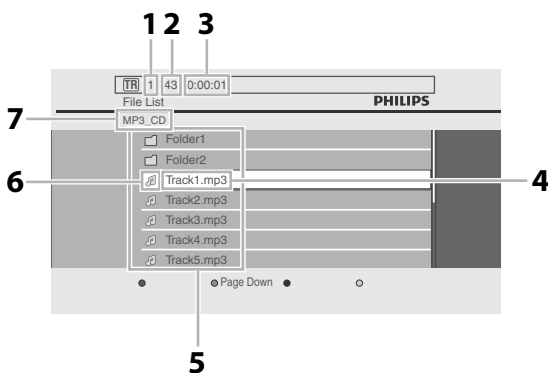
Audio CD Track List



- 1) Playing track number
- 2) Total track number
- 3) Elapsed playing time of the current track
- 4) Track list
- 5) Media icon
- 6) Playing media

Video/Audio Mode File List

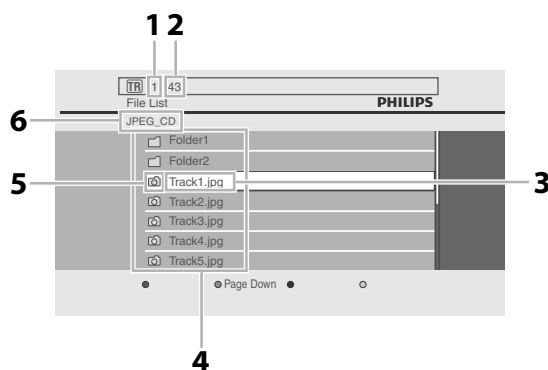
e.g., MP3 mode



- 1) Playing track number
- 2) Total track number in the current hierarchy
- 3) Elapsed playing time of the current track
- 4) Current file name
- 5) Group (folder) / File list
- 6) Media icon
- 7) Current Disc, SD Memory Card, or folder name will be displayed.

Picture Mode File List

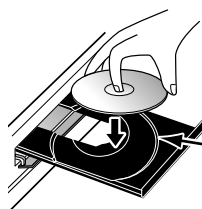
e.g., JPEG mode



- 1) Current file number
- 2) Total file number in the current hierarchy
- 3) Current file name
- 4) Group (folder) / File list
- 5) Media icon
- 6) Current Disc, SD Memory Card, or folder name will be displayed.

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 19 for the list of compatible discs.)

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

It may take a while to load the disc.

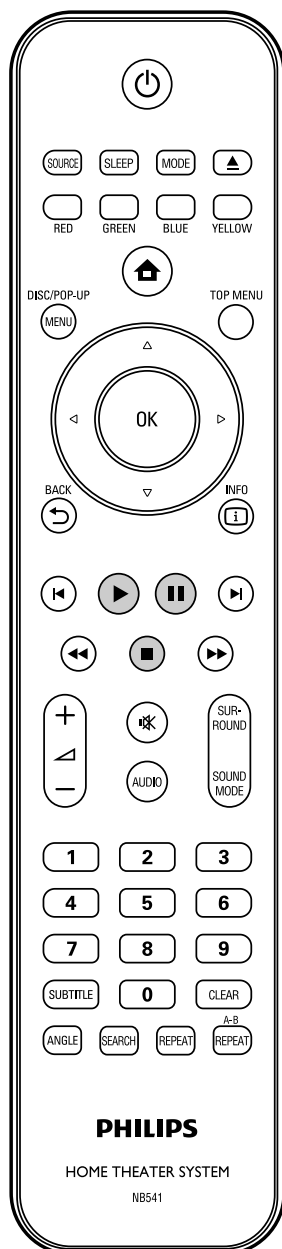
To eject the disc:

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

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

BASIC PLAYBACK

Playing Back a BD or a DVD



1 Insert a disc (refer to page 21 on how to insert a disc).

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

To pause playback:

Press **[PAUSE II]**.

To return to the normal playback:

Press **[PLAY ►]**.

To stop playback:

Press **[STOP ■]**.

Playback will be in Resume-On-Stop mode.

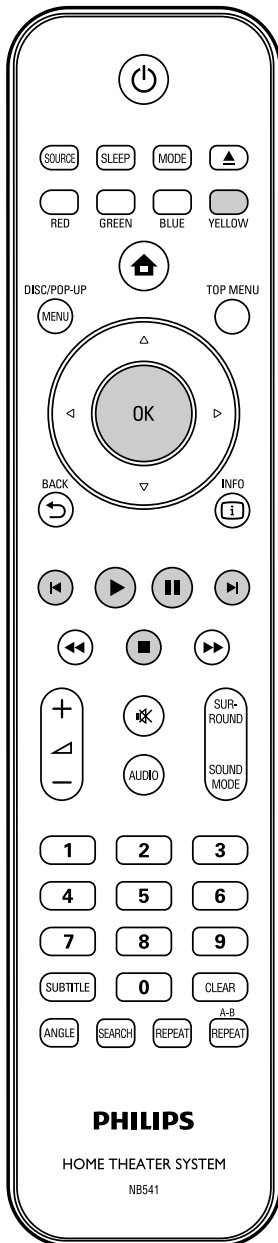
<Resume-On-Stop mode>

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

Note

- For BD Java application, the Resume-On-Stop is not available.
- 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 DivX®/MP3/Windows Media™ Audio/JPEG Files



How to Navigate through the Track/File List

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

Recommended specifications:

<DivX®>

Official DivX® Certified product

- Playable codec of AVI files : DivX® 3.x, DivX® 4.x, DivX® 5.x, DivX® 6.x
- Maximum size of a video : 1920 x 1080 @30 fps
1280 x 720 @60 fps
- Sampling frequency of audio : 16 kHz - 48 kHz
- Audio type : MPEG1 audio layer 3(MP3),
MPEG1 audio layer 2, AC3

<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 page 21 on how to insert a disc).**
 - Media Filter screen appears automatically.
- 2 Select the type of the file you want to play back in the media filter screen. Then press [OK] to display the file list.**
 - "Video"** : If you want to play back video files such as DivX® video files, select "Video".
 - "Audio"** : If you want to play back music files such as Windows Media™ Audio, select "Audio".
 - "Picture"** : If you want to play back the still images such as JPEG pictures, select "Picture".

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

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

To skip to the next track/file:
Press [NEXT ►].

To skip to the previous track/file:
Press [PREV ◀].

To pause playback:
Press [PAUSE II].

To return to the normal playback:
Press [PLAY ►].

To stop playback:
Press [STOP ■].

Playback will be in Resume-On-Stop mode.

<Resume-On-Stop mode for **audio CD/DivX®**>
Playback will start from the point where it is stopped next time you press [PLAY ►].

If you press [OK] instead of [PLAY ►], playback will start from the beginning of the track 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 [YELLOW] in Resume-On-Stop mode.

Reading the SD Memory Card

MP3

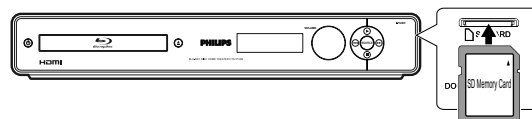
WINDOWS
MEDIA
AUDIO

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 28.)



- 1 Insert an SD Card.**

"Media Select" screen appears automatically.
- 2 With "SD Card" selected, press [OK] to display the file list.**
- 3 Follow step 2 in "Playing Back an Audio CD or a Disc with DivX®/MP3/Windows Media™ Audio/JPEG Files" on page 23.**

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 the SD Memory Cards formatted on a computer.

About DivX® and DivX® VOD

DivX

Hint for the purchased or rented official DivX® Certified product

- When you purchase or rent a DivX® file through the official site of DivX® video which is called DivX® Video On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX® VOD services. Refer to "DivX(R) VOD" in "LIST OF SETTINGS" on page 39.

Possible Errors

"This rental has 0 views left. Do you want to use one of your 0 views now?"

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

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

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

"This rental is expired."

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

"This player does not support this video format."

You cannot play back the DivX® files whose image size exceeds 1920 x 1080 @30 fps or 1280 x 720 @60 fps.

"This player does not support this audio format."

For DivX® files with audio format other than MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2 and Dolby Digital, audio will not be output and only the video will be output.

Note

- A file with an extension of ".avi" and ".DivX" is called as a DivX® file. All files with the ".avi" extension are recognized as MPEG4.
- For CD-RW/-R, maximum of 255 group (folder) or 999 files may be recognized.
- For DVD-RW/-R, maximum of 999 group (folder) or 9,999 files may be recognized.
- For BD-RE/-R, maximum of 999 group (folder) or 9,999 files may be recognized.
- The 10th and deeper hierarchies cannot be displayed.
- Unrecognizable characters will be replaced with "□".
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX® logo has been obtained for this unit, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- A DivX® file whose file size exceeds 2 GB cannot be played back.
- If a large-sized DivX® file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- If DivX® files written on a CD-RW/-R or DVD-RW/-R cannot be played back, rewrite them on a BD-RE/-R and try to play back.
- Multi-session burn DivX® BD and DVD cannot be played back on this unit.
- For more information for DivX®, please visit <http://www.divx.com>.

Playing Back a DivX® with DivX® External Subtitle

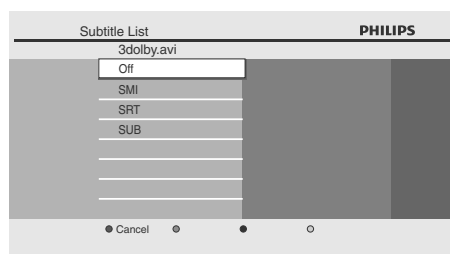
DivX®

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

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

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

Subtitle list will appear.



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

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

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

Note

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

Using the Title / Disc Menu



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



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

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

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

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

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

Note

- For some DivX® files, fast forward/fast reverse may not function.

Slow Forward Playback



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

Every time you press [FFW ►►], the playback speed changes in 3 different levels.

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

Note

- Only slow forward is available.
- For some DivX® files, slow forward may not function.

Step by Step Playback



- 1) In pause mode, press [PAUSE III] repeatedly.

Every time you press [PAUSE III], 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/DivX®/MP3/Windows Media™ Audio/JPEG
The current track or file will be played back repeatedly.	
All Repeat	Audio CD/DTS-CD/DivX®/MP3/Windows Media™ Audio/JPEG
All tracks in the media will be played back repeatedly.	
Group Repeat	DivX®/MP3/Windows Media™ Audio/JPEG
The current group (folder) will be played back repeatedly.	

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, the repeat setting will be cancelled if you select other MP3 or WMA folder to playback.
- Repeat playback does not function during A-B repeat playback.

A-B Repeat



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

- 1) During playback, press [REPEAT A-B] once at the point where you want to set point A.
- 2) During playback, press [REPEAT A-B] again at the point where you want to set point B.

As soon as you set 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

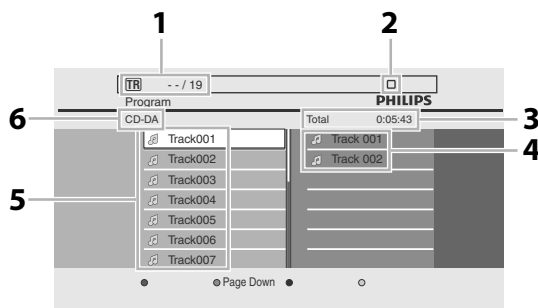
- Point B should be set within the same title or track as point A.
- If you press [REPEAT A-B] when the repeat setting for BD, DVD or CD playback is set, the repeat setting will be cancelled.
- For some DivX® files, A-B repeat playback may not function.
- To cancel the A point which was set, press [CLEAR].
- A-B repeat does not function during chapter, title, track or group repeat playback.

Program Playback



You can play back the disc/card in your desired order.

- 1) In stop mode, press [MODE].
 - The program screen will appear.
- 2) Use [▲ / ▼] to select a track / file, then press [OK].

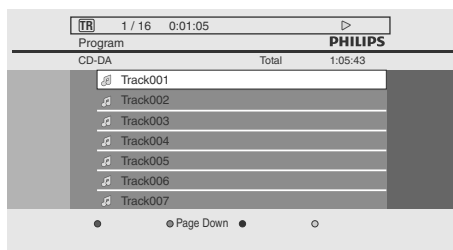


e.g.) audio CD

1. audio CD : Track information
MP3/WMA/JPEG : File information
2. Playback Status
3. Cumulative playback time of all tracks / files in the programmed list.
4. Programmed list : Track / File list in the programmed order.
5. Track / File list : Track / File list in the original order.
6. audio CD : "CD-DA" will be displayed.
MP3/WMA/JPEG : Current Disc, SD Memory Card, or folder name will be displayed.

- For MP3, WMA and JPEG files, use [▲ / ▼] to select a folder, then press [OK] first, and then use [▲ / ▼] to select a file, then press [OK].
- Press [CLEAR] to erase the last file of the program.
- Use [▲ / ▼] to select "All Clear" at the bottom of the list to erase all the tracks / files in the program.
- The programmed tracks / files is displayed in the right hand screen.
- Use [◀ / ▶] to go back / forward between the hierarchy of folders.

- 3) Press [PLAY ▶] to start program playback.
 - Programmed file list will appear and the program playback will start.



e.g.) audio CD

- To exit from the program playback mode:**
- Press [BACK ⏮] in stop mode.

Note

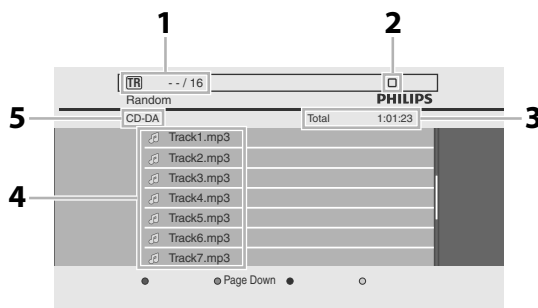
- During program playback, press [STOP ■] once to set the resume point, and then press [PLAY ▶] to resume program playback from where [STOP ■] was pressed (audio CD) or from beginning of the file where [STOP ■] was pressed (MP3/WMA/JPEG).
- During program playback, press [STOP ■] twice to display the program screen. To go back to the normal program playback, press [BACK ⏮] to exit from the program screen, then press [PLAY ▶].
- Up to 99 tracks / files can be entered.
- To repeat the current track / file in the program, press [REPEAT] repeatedly until "⏮ Track" appears during playback. To repeat the entire program, press [REPEAT] repeatedly until "⏮ All" appears during playback.
- Playback from a desired track / file and random playback are not available during program playback.
- Press [MODE] to switch to the random playback mode.
- The program will be cleared when;
 - the unit is turned into the standby mode.
 - the media mode is switched to the other mode.
 - the disc / card is removed. (as for "Disc" mode, just opening the disc tray will clear the program info.)

Random Playback



This function shuffles the playback order of tracks / files.

- 1) In stop mode, press [MODE] twice.
 - The random screen will appear.



e.g.) audio CD

1. audio CD : Track information
MP3/WMA/JPEG : File information
 2. Playback status
 3. Total playback time of all tracks / files.
 4. Track / File list : Track / File list in the original order will be displayed.
 5. audio CD : "CD-DA" will be displayed.
MP3/WMA/JPEG : Current Disc, SD Memory Card, or folder name will be displayed.
- 2) Press [PLAY ▶] to start random playback.

To exit from the random playback mode:

 - Press [MODE] in stop mode.

SPECIAL PLAYBACK

Note

- During the random playback, press **[STOP ■]** once to set the resume point, and then press **[PLAY ►]** to resume random playback from where **[STOP ■]** was pressed (audio CD) or from beginning of the file where **[STOP ■]** was pressed (MP3/WMA/JPEG).
- To repeat the current track / file in the random selection, press **[REPEAT]** repeatedly until "🔄 Track" appears during playback. To repeat the entire random selection press **[REPEAT]** repeatedly until "🔄 All" appears during playback.
- Playback from a desired track / file is not available during random playback.
- Press **[BACK ⏮]** to switch to the program playback mode.

Slide Show

JPEG

- 1) Follow steps 1 to 2 in "Playing Back an Audio CD or a Disc with DivX®/MP3/Windows Media™ Audio/JPEG Files" on page 23.
- 2) Open the folder which contains the desired JPEG files.
- 3) Use **[▲ / ▼ / ◀ / ▶]** to select a desired track to be played back, then press **[PLAY ►]** or **[OK]**.
 - An image will be played back from the selected track and go to the next one in turn.
- 4) Press **[STOP ■]** to stop playback.

To return to the first item:

Press **[TOP MENU]**.

To return to the track/file played last:

Press **[DISC MENU / POP-UP MENU]**.

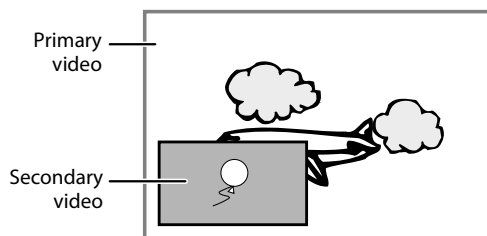
Note

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

PiP (BONUSVIEW) Setting



Some BD-videos have the PiP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **[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.
- You can use **[▲ / ▼]** to switch between "On" or "Off".

- 3) Press **[BACK ⏮]** to remove the PiP information.

- On how to output the secondary audio, refer to "Switching Audio Soundtrack" on page 30 and "Blu-ray Disc Audio" on page 37.

Enjoying BD-Live Discs with Internet



You can enjoy the BD-Live functions which enable you to use the interactive functions when the unit is connected to the Internet. (For the Network connection, refer to page 44.)

Examples for BD-Live interactive functions :

- Download the additional contents such as the movie's trailer, subtitles and BD-Java, 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 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 the BD-Live function.
- For certain discs, setting for "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.

Search

Using [PREV ◀] / [NEXT ▶]

- 1) During playback, press [NEXT ▶] to move to the next track / title / chapter / file. Press it repeatedly to skip to subsequent tracks. Press [PREV ◀] once to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.
 - For JPEG files, press [PREV ◀] to go back to the previous file.

Note

- For BD and DVD, if title contains no chapters, [PREV ◀]/[NEXT ▶] changes the title.
- For JPEG files, [◀/▶] is also available.

Using [SEARCH]

By using [SEARCH], you can select the following search modes.

Search mode	Available media
/ Chapter / Title search	
Track search	
Time search	
Marker search	

- 1) During playback, press [SEARCH] repeatedly until your desired search mode appears.
- 2) Enter the desired chapter, title, track, file number or time to search for using [the Number buttons].
 - Chapter, title, track or time search will start.
 - Press [CLEAR] to erase an incorrect input.

Note

- During program and random playback, search functions are not available except the search using [PREV ◀]/[NEXT ▶].
- Time search is available only in the same track, file or title.
- For BD, chapter and time search are available only during playback.

Using [the Number buttons] (Direct Search)

Title Search

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

Chapter Search

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

Track Search

- 1) During playback of a title, enter the track number you want to search using [the Number buttons]. Playback of the track 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.

Marker Search

This feature allows you to assign a specific point on a title to be called back later.

- 1) During playback, press [SEARCH] repeatedly until the marker setting menu appears.
- 2) Use [◀/▶] to select a marker number (1-9).

Bookmark |01|02|03|04|05|06|07|08|09|AC| Title 001 0:10:23

- 3) When the disc reaches the point at which you want to set a marker, press [OK].
 - The title and elapsed playback time will appear on the TV screen.
- 4) Press [SEARCH] or [RETURN] to exit.
- 5) To return to the marker later, call the marker setting by pressing [SEARCH] repeatedly during playback or in stop mode, and use [◀/▶] to select a desired marker, then press [OK].

Note

- Opening the disc tray, changing to the standby mode, or selecting "AC" at step 2 and pressing [OK] will erase all markers.
- To clear a marker, use [◀/▶] to select the marker number to be cleared and press [CLEAR].
- You can mark up to 9 points.
- For BD, marker search between different titles is not available.
- For BD, you can return to the marker only during playback.

Switching Subtitles

Some BD and DVD may have subtitles in 1 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 languages during playback.



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

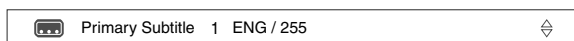
"Primary Subtitle" : Sets the subtitle for the primary video.

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

"Subtitle Style" : Sets style of the subtitle.

SPECIAL PLAYBACK

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



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

3) Press [BACK ↵] repeatedly to exit.



1) During playback, press [SUBTITLE].

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



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

3) Press [BACK ↵] 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.
- For DivX® external subtitle, "Playing Back a DivX® with DivX® External Subtitle" on page 25.

Switching Audio Soundtrack

Some BD and DVD contain multiple audio streams. Those are often in different audio languages or audio formats. For BD, available audio varies depending on "Blu-ray Disc Audio" setting. Refer to page 38 for more information.

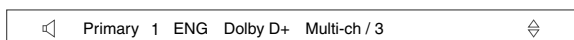


1) During playback, press [AUDIO] repeatedly to display "Primary" or "Secondary".

"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.



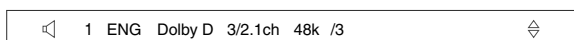
- For "Secondary", use [◀ / ▶] to switch between current audio setting and "Off".

3) Press [AUDIO] repeatedly to exit.



1) During playback, press [AUDIO].

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



e.g.) DVD-video

3) Press [BACK ↵] to exit.



1) During playback, press [AUDIO].

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




3) Press [BACK ↵] to exit.

Note

- The secondary audio will not be output when the secondary video is not displayed or when "Blu-ray Disc Audio" is set to "Primary Audio Only". (For some BD, secondary audio will be output even when secondary video is off.)
- The audio stream channel 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), "DTS" will be displayed. (Selecting audio streams or channels is not available.)

Switching Camera Angles



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 [BACK ↵] to exit.

Note

- If "Angle Icon" setting is set to "Off",  will not appear on the TV screen. (Refer to page 39)

Playing Music from Compatible iPod Device

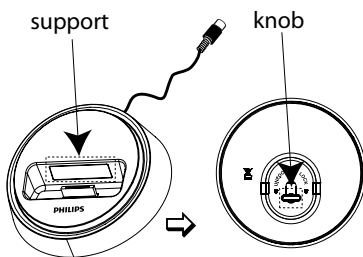
Music/video on your Apple iPod can be played on this unit with the support of the docking station. It enables you to enjoy the superior sound output from the speaker system.

The docking station supports the following iPod range:

iPod 4th gen (color display)	20GB, 30GB, 40GB, 60GB
iPod 4th gen	20GB, 40GB
iPod 5th gen (Video)	30GB, 60GB, 80GB
iPod Nano 1st gen	1GB, 2GB, 4GB
iPod Nano 2nd gen (aluminum)	2GB, 4GB, 8GB
iPod Nano 3rd gen (Video)	4GB, 8GB
iPod Mini	4GB, 6GB
iPod Touch Ver 2.1	8GB, 16GB
iPod Classic	80GB, 160GB

Preparing the Docking Station

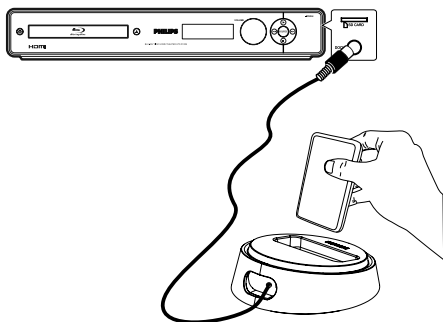
The supplied docking station has an adjustable support to fit varies iPod range.



If your iPod cannot be fixed to the docking station, adjust the support as below:

- 1) Turn the knob at the bottom of the docking station counter-clockwise to loosen the support.
- 2) Adjust the support until it can fit your iPod.
- 3) Turn the knob clockwise to tighten it.

Playing from iPod



- 1) Connect the docking station to the iPod DOCK jack on this unit.
- 2) Dock your iPod in the docking station and turn it on.
- 3) Press [SOURCE] repeatedly until "iPod" appears on the front panel display.
- 4) Start playback on your iPod.
The audio of iPod will be output from the speakers.

• You can use the remote control to control the music:

Button	Action
Cursor ▲ / ▼	Select item or track
OK	Go to the next hierarchy or start playback
BACK ↶	Return to the previous menu screen
VOL ▲ / + / -	Adjust the volume level
STOP ■	Stop the playback
PAUSE	Pause the playback
PREV ◀ / NEXT ▶	Go to the previous / next track during playback
REW ◀◀ / FFW ▶▶	Press and hold to search backward / forward during playback
REPEAT	Press repeatedly to select the repeat mode. (Repeat One, All or Off)
SEARCH	Press repeatedly to select the shuffle mode. (Shuffle Songs, Albums or Off)
MODE	Select between Extended mode and Simple mode. Extended mode (*Default setting): Control the iPod playback in the menu screen of this unit. Simple mode: Control the iPod playback on iPod click wheel.

Note

- Whenever this unit is powered up and the docking station is connected to it, the battery of the docked iPod will be charged automatically.
- Compatibility depends on the software version of your iPod.
- Audio / Video cannot be recorded or transmitted to iPod via this unit.
- Later generations of iPod models and iPhones are not supported.
- In simple mode, playback of video is not available.
- Photos on your iPod cannot be played on this unit.
- Depending on the software version of your iPod, you may need to update the software.
Please download the latest software version at: www.apple.com/support/
- You may be charged for software update depending on the iPod model.

RADIO OPERATIONS

Before you start

Connect the supplied FM wire antenna to the inner pin of the FM ANT 75Ω jack. 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).
- Position the antenna as far away as possible from your TV, VCR or other radiation source to prevent any unwanted interference.

Tuning to Radio Stations

- 1) Press [SOURCE] repeatedly until "FM" appears on the front panel display.
- 2) Press [◀ / ▶] on the remote control to start tuning. The frequency indication starts to change until a radio station with sufficient signal strength is found.
- 3) Repeat step 2) if necessary until you find the desired radio station.
- 4) To fine-tune the reception of a weak station, press [▲ / ▼] briefly and repeatedly until an optimal reception is found.

Presetting Radio Stations

You can store up to 15 FM preset radio stations in the memory. To store the radio stations, follow the following procedure.

- 1) Tune to your desired radio station (see "Tuning to Radio Stations" on this page).
- 2) Press [OK].
- 3) Press [PREV ◀ / NEXT ▶] or use [the Number buttons] to select a preset number that you want to store the current radio station.
- 4) Press [OK] to store.

Note

- This unit exits presetting mode if no button is pressed within 20 seconds.
- If no stereo signal is detected or less than 5 (five) stations are detected during radio installation, "CHECK ANTENNA" appears on the front panel display.

Selecting a Preset Radio Station

- 1) Press [SOURCE] repeatedly until "FM" appears on the front panel display.
- 2) Press [PREV ◀ / NEXT ▶] or use [the Number buttons] to select a preset radio station.
The preset number and radio frequency appear on the front panel display.

Deleting a Preset Radio Station

- 1) In FM mode, press [PREV ◀ / NEXT ▶] to select a preset radio station.
- 2) Press and hold [STOP ■] until "DELETED" appears on the front panel display.
 - The radio station continues to play but has been deleted from the preset list.
 - The rest of the preset radio stations remain unchanged.

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 

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

3) 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.

4) To make a selection or to access the options of an item, highlight the desired item, then press [OK].

5) Press [HOME 

Refer to the following table for the types of settings you can customize.

The item highlighted in gray is the default setting.

Category	Menus/Options		Description
General Setup	OSD Language	English Español Français Auto (XXXX)	Select the menu language for OSD (on-screen display). "Auto": Activates the Get & Set Menu Language function. (Refer to page 41). • "Auto" is available only when "EasyLink (CEC)" is set to "On". • Inside the parenthesis next to "Auto" will be the current selected language.
	Display Dim	100% 70% 40%	Select the brightness of the front panel display. "100%": Full brightness. "70%": Medium brightness. "40%": Dimmest display. This switches off all LEDs and icons on the front panel display of this unit.
	Screen Saver	On Off	The screen saver prevents damage to the TV screen by avoiding exposure to a static image for too long. "On": Switches to TV screen saver mode when playback has been stopped or paused for more than 5 minutes only BD Function. "Off": Disables the screen saver function.
	Sleep Timer	15 min 30 min 45 min 60 min Off	The sleep timer enables the unit to switch to standby mode automatically after the selected preset time. "15/30/45/60 min": Select the preset minutes for switching the unit to standby mode automatically. "Off": Turns off the sleep mode function.
	Auto Standby	On Off	"On": Sets whether to turn off the unit (to the standby mode) automatically after 25 minutes of no action since the screen saver is activated. • If the screen saver is off, the unit will be turned off after 30 minutes if no action. "Off": Turns off the standby mode feature.

LIST OF SETTINGS

Category	Menus/Options		Description
Video Setup	Video Resolution • Refer to page 41 for more information.	Auto 480i 480p 720p 1080i 1080p	Sets the resolution of the video signal being output from the HDMI OUT/COMPONENT VIDEO OUT/VIDEO OUT. • The selected resolution must also be supported by your TV monitor.
	HDMI Setup	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 the 12 bit color whenever the unit recognizes the connected display device supports Deep Color feature. "Off": Outputs the standard 8 bit color.
		EasyLink (CEC) • This feature is available only when the display device is connected with an HDMI cable, and when it supports EasyLink (CEC) feature. • Refer to page 41 for more information.	On Off Sets whether to utilize the EasyLink (CEC) function. EasyLink (CEC) function allows your PHILIPS brand EasyLink TV to act in conjunction with this unit or vice versa.
	Black Level	On Off	You can adjust the black level setting to make the black parts of the picture as bright as you refer. "On": Makes the dark parts brighter. "Off": Shows the original picture as recorded.
	Noise Reduction • Not available for BD-video.	Off Low High	Reduces the noise of the playback picture. "Off": Shows the original picture as recorded. Turns off noise reduction feature. "Low": Executes MPEG noise reduction which reduces the block noise and Mosquito noise on the subtitle on movie by 50% from the original picture. "High": Executes MPEG noise reduction which reduces the block noise and Mosquito noise on the subtitle on movie by 90% from the original picture.

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Category	Menus/Options					Description
Audio Setup	Speaker Setup	Speaker Configuration	Configuration 0	LLLY (F/C/S/SUB)		Selects the desired speaker to set. Only 3 states. "Configuration 0": Left(Large), Right(Large), Center(Large), Surround Left(Large), Surround Right(Large), Subwoofer(Yes) "Configuration 1": Left(Small), Right(Small), Center(Small), Surround Left(Small), Surround Right(Small), Subwoofer(Yes) "Configuration 2": Left(Large), Right(Large), Center(Small), Surround Left(Small), Surround Right(Small), Subwoofer(No)
			Configuration 1	SSSY		
			Configuration 2	LSSN		
		Test Tone & Level	Front Left	-10dB ~ +10dB	default is 0dB	Sets the volume level for each speaker to get the ideal audio balance. Use [▲ / ▼] to set the volume level of the highlighted speaker between -10dB ~ +10dB.
			Center		default is 0dB	
			Front Right		default is 0dB	
			Surround Right		default is 0dB	
			Surround Left		default is 0dB	
			Subwoofer		default is 0dB	
		Speaker Distance	Unit of Measure	Feet		Sets the desired measure system. This measure system will be used for "Speaker Distance" setting.
				Meters		
			Front Left	Feet: 0 ~ 10 Meters: 0 ~ 3	default is 3	Select the distance from the listening point to the speaker to get the ideal delay time.
			Center		default is 3	
			Front Right		default is 3	
	Surround Left		default is 3			
	Surround Right	default is 3				
	Subwoofer	default is 3				
	Sound Mode	Off				Select a preset digital sound effect that matches your disc's content or optimizes the sound of the musical style you are playing. • You can also change the sound mode by pressing [SOUND MODE] repeatedly during playback. "Off": Turns off Sound Mode feature. "Concert / Classic": Flat and pure sound mode. Ideal for listening to classical music and watching live concert BDs/DVDs. "Drama / Lounge": Moderate sound mode suitable for lounge music and watching drama. "Action / Rock": Enhanced low and high range great sounding movie effects and atmosphere. Great for action movies and rock/pop music. "Gaming / Sports": Moderate mid range and sound effects for clear vocal and the atmosphere of live sports venue. Also suitable for video game. "Night / Night": Dynamically controlled sound mode suitable for watching movies at night or for non-intrusive background music.
		Concert / Classic				
		Drama / Lounge				
Action / Rock						
Gaming / Sports						
Night / Night						

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Category	Menus/Options			Description
Audio Setup	HDMI Audio	PCM Normal(Bitstream) Off		Sets the audio format for the sound output from the HDMI OUT. "PCM" : The Multi-channel or stereo audio signals are output from HDMI OUT jack with PCM. "Normal(Bitstream)" : The Multi-channel audio signals are output from HDMI OUT jack with bitstream or PCM depending on EDID information. "Off" : Mutes the HDMI audio signal.
	Audio Sync	Auto		This feature allows you to adjust the audio delay times if the video playback is slower than the audio output streams. Use [▲ / ▼] to set the delay times for the audio output between 0 ~ +200ms.
		0 ~ +200ms	default is 0ms	
	Listening Mode Setup	Listening Setup	2 Channel	None PLII Music PLII Movie
			Surround	None PLII Music PLII Movie Dolby Digital Stereo
			DTS	None NEO : 6 Music NEO : 6 Cinema Stereo
			PCM	None 5ch Stereo NEO : 6 Music NEO : 6 Cinema PLII Music PLII Movie
		Dolby Setup	Dyn Range Ctrl	Off Min Mid Max Auto
				You can select the effective dynamic range (subjective range from soft to loud) for the playback of Dolby Digital soundtracks. For fully cinematic effect, reduce dynamic range, making soft sounds comparatively louder while limiting the peak loudness of loud ones. "Off" : Turns off the dynamic range control feature. "Min" : 25% Progressively Dynamic Range. "Mid" : 50% Progressively Dynamic Range. "Max" : 100% Progressively Dynamic Range. "Auto" : This feature only works on Dolby TrueHD Soundtrack.
			Center Width	0 1 2 3 4 5 6 7
			Dimension	3 2 1 0 -1 -2 -3

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Category	Menus/Options				Description	
Audio Setup			Panorama	Off	Adds a 'wrap around' effect by extending some stereo content into the sound channels. "Off": Turns off panorama feature. "On": Turns on panorama feature.	
				On		
		DTS Setup	Center Gain	0		Adjust for better center image in relation to the surround sound channels.
				0.1		
				0.2		
0.3 0.4 0.5						
Listening Viewer					Display the current status of listening mode setup.	
Play Disc Setup Quick	Media Select	Disc			Select the media to playback.	
		SD Card				
	Blu-ray Disc Audio	Mix Audio Output			Sets the disc audio of Blu-ray Disc playback.	
		Primary Audio Only				
Play Disc Setup Custom	Language	Audio	Original		Sets the audio language for BD-video or DVD-video playback.	
		 	English French Spanish German Italian Swedish Dutch Russian Chinese Japanese Korean Danish Finnish	Norwegian Icelandic Hungarian Romanian Turkish Greek Irish Portuguese Polish Czech Slovak Bulgarian Other		
		Subtitle	Off			Sets the subtitle language for BD-video or DVD-video playback.
		 	English French Spanish German Italian Swedish Dutch Russian Chinese Japanese Korean Danish Finnish	Norwegian Icelandic Hungarian Romanian Turkish Greek Irish Portuguese Polish Czech Slovak Bulgarian Other		
Disc Menu	 	English		Sets the language for disc menu.		
		French Spanish German Italian Swedish Dutch Russian Chinese Japanese Korean Danish Finnish Norwegian	Icelandic Hungarian Romanian Turkish Greek Irish Portuguese Polish Czech Slovak Bulgarian Other			

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Category	Menus/Options		Description
Play Disc Setup Custom	Audio & Video	TV Shape • Refer to page 43 for more information. 4:3 Letter Box 4:3 Pan & Scan 16:9 Widescreen 16:9 Squeeze	Sets the aspect ratio of the playback image to fit your TV.
		BD-Video 24p Output • This feature is available only when the display device is connected by an HDMI cable. • Refer to page 41 for more information. Auto Off	<p>"Auto": Outputs the picture in 1080p/24 (1080 progressive with 24 frames per second) when it meets all the conditions listed below:</p> <ul style="list-style-type: none"> • The video resolution and the frame rate of the material is 1080p/24 . • "Video Resolution" setting is set to "Auto". • The display device supports the 1080p/24 output. <p>"Off": Outputs the picture in 60p. (60 frames per second, progressive)</p>
		Still Mode Auto Field Frame	<p>Adjusts picture resolution and quality in still mode.</p> <p>"Auto": Automatically selects the best resolution setting ("Frame" or "Field") based on the data characteristics of the pictures.</p> <p>"Field": Stabilizes the pictures, although the picture quality may become coarse due to the limited amount of data. Select "Field" when the pictures are still unstable even if "Auto" is selected.</p> <p>"Frame": Displays relatively motionless pictures in higher resolution. "Frame" improves the picture quality, although it may unstabilize the pictures due to alternate output of 2-field data.</p>
	Blu-ray Disc Audio 	Mix Audio Output Primary Audio Only	<p>"Mix Audio Output": The audio for the secondary video and the interactive application will be output together with the audio for the primary video.</p> <p>"Primary Audio Only": Only the audio for the primary video will be output. When playing back a BD-video which only contains the primary audio, the audio output will be the same case as the "Primary Audio Only" even if the "Blu-ray Disc Audio" is set to "Mix Audio Output".</p>
		Rating Level All 8 [Adult] to 1 [Kid Safe]	Sets the rating level for the disc playback.
	Parental • Refer to page 43 for more information.	Password Change Password Input	
	Other	Media Select Disc SD Card	Select the media to playback.
		Slide Show Interval 5sec 10sec JPEG	<p>Sets the amount of time for displaying one picture before switching to the next one.</p> <p>For example, select "5sec" to switch the picture every 5 seconds.</p>

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Category	Menus/Options				Description		
Play Disc Setup Custom	Other	Angle Icon	On		“On”: The angle icon appears on the TV screen when playing back the scene with various angle. “Off”: The angle icon disappears on the TV screen.		
			Off				
		DivX(R) VOD <div>DivX</div>	Registration Code	Your registration code is : ○○○○○○○○○○○○ To learn more visit www.divx.com/vod		This menu item provides you with the DivX® VOD registration code. The DivX® registration code is required when downloading the DivX® VOD files from the Internet. To learn more about DivX® VOD, visit www.divx.com/vod.	
			Deactivation Code	Your deactivation code is : ○○○○○○○○○○ To learn more visit www.divx.com/vod		This menu item provides you with the DivX® VOD deactivation code. The DivX® deactivation code is required when re-downloading the DivX® VOD files from the Internet after deactivating. To learn more about DivX® VOD, visit www.divx.com/vod.	
			Deactivation	Yes No		This menu deactivates the DivX® VOD files and provides you with new registration code and deactivation code in order to playback the DivX® VOD files downloaded from the Internet.	
		Network Connection • Refer to page 44 for more information.	Connection Test			Perform the network connection test. After you change the 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.
					Manual	IP Address	In most cases, you can connect to the Internet without making any changes to the default setting.
	Subnet Mask Default Gateway						
	DNS Setting	Auto(DHCP)		Set the DNS Setting.			
			Manual	Primary DNS Secondary DNS	In most cases, you can connect to the Internet without making any changes to the default setting.		
	Proxy Setting	Do Not Use Use				Set the Proxy server.	
			Proxy Address Proxy Port	In most cases, you can connect to the Internet without using Proxy server.			

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Category	Menus/Options					Description
Play Disc Setup Custom	Other	Network Connection	Enable(Custom)	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.	
		Software Upgrade	Software version		You can check the current firmware version.	
			Disc Upgrade	Yes No	Set the Disc Upgrade. You can upgrade the firmware version by using the disc. To download the latest firmware version, please visit www.philips.com/support .	
				Network Upgrade	Yes No	Set the Network Upgrade. You can upgrade the firmware version by connecting this unit to the Internet.
		Play Disc Setup Initialize	Format SD Card	Yes No		
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		
Network Settings	Yes No				“Yes”: Initialize network settings. “No”: Does not perform the initialization.	
Factory Default	Settings		Yes No			

Video Resolution

HOME → "Video Setup" → "Video Resolution"

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

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

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

Media	DVD	DivX*	Photo viewing	OSD-only viewing
Setting in the "Video Resolution"	Source			
	480i/60	60,30,other		
480i	480i/60	480i/60	480i/60	480i/60
480p	480p/60	480p/60	480p/60	480p/60
720p	720p/60	720p/60	720p/60	720p/60
1080i	1080i/60	1080i/60	1080i/60	1080i/60
1080p	1080p/60	1080p/60	1080p/60	1080p/60
Auto	The highest resolution supported by your display device will be in effect automatically.			

- Composite video out (VIDEO OUT) can only output 480i/60.
- When outputting 24 Hz or 60 Hz signal from the HDMI OUT, no signal will be output from the COMPONENT VIDEO OUT and the VIDEO OUT.
- HDMI OUT cannot output 480i/60.
- COMPONENT VIDEO OUT cannot output 1080p/60.
- When HDMI cable is connected, "480i" will be grayed out.
- When HDMI cable is not connected, "1080p" will be grayed out.

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.
- Refer also to your TV's manual.
- If you select "Auto" when HDMI cable is not connected, 480i will be output from the COMPONENT VIDEO OUT.

EasyLink (CEC)

HOME → "Video Setup" → "HDMI Setup" → "EasyLink (CEC)"

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

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

One Touch Play

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

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 "OSD Language" on page 33 for available languages.

- This feature is available only when "Auto" is selected in the "OSD Language" in the settings menu.

SETUPS

HDMI Audio

HOME → "Audio Setup" → "HDMI Audio"

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

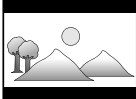
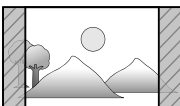
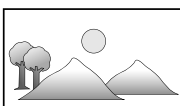
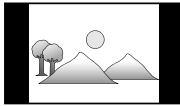
	"HDMI Audio" setting →	"Normal(Bitstream)"		"PCM"		"Off"
	"Blu-ray Disc Audio" setting →	"Primary Audio Only"	"Mix Audio Output"	"Primary Audio Only"	"Mix Audio Output"	Regardless
Media ↓	Audio Source ↓	Which audio format can be output depends on the compatibility of the connected device.				
BD-video	Dolby Digital	Dolby Digital or PCM or Mute	Dolby Digital or PCM or Mute	PCM or Mute	PCM or Mute	Mute
	Dolby Digital Plus	Dolby Digital Plus or Dolby Digital or PCM or Mute	Dolby Digital or PCM or Mute	PCM or Mute	PCM or Mute	Mute
	Dolby TrueHD	Dolby TrueHD or Dolby Digital or PCM or Mute	Dolby Digital or PCM or Mute	PCM or Mute	PCM or Mute	Mute
	DTS	DTS or PCM or Mute	DTS or PCM or Mute	PCM or Mute	PCM or Mute	Mute
	DTS-HD	DTS-HD or DTS or PCM or Mute	DTS or PCM or Mute	PCM or Mute	PCM or Mute	Mute
	LPCM	PCM or Mute	PCM or Mute	PCM or Mute	PCM or Mute	Mute
DVD-video	Dolby Digital	Dolby Digital, PCM or Mute		PCM or Mute		Mute
	DTS	DTS, PCM or Mute		PCM or Mute		Mute
	LPCM	2ch PCM or Mute		2ch PCM or Mute		Mute
DivX®	AC3	AC3, PCM or Mute		PCM or Mute		Mute
	MP3/MP2	2ch PCM or Mute		2ch PCM or Mute		Mute
Audio CD/ MP3/ Windows Media™ Audio	PCM	2ch PCM or Mute		2ch PCM or Mute		Mute
DTS-CD	DTS	DTS, PCM or Mute		PCM or Mute		Mute

- 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".

TV Shape

HOME → "Play Disc Setup" → "Custom" → "TV Shape"

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

Video source	Your TV	Option	Description
16:9	4:3	4:3 Letter Box 	To enjoy 16:9 picture on 4:3 monitor: 16:9 picture is scaled down until the both sides of the picture fits the 4:3 TV.
		4:3 Pan & Scan 	To enjoy 16:9 picture on 4:3 monitor: Both sides of the picture are trimmed to fit the 4:3 TV without distorting the aspect ratio of the picture.
4:3	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.
		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.

Parental

HOME → "Play Disc Setup" → "Custom" → "Parental"

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

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

Language	Rating Level
Audio & Video	Password Change
Parental	
Others	

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

2-a) Enter 4 digit password using [the Number buttons].

Password Input

• "4737" cannot be used.

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

Password Input

2-c) Follow step 2-b). Select "Password Change", then press [OK]. Enter the new password.

2-d) Enter "4737". Current password and the "Parental" settings are now cleared. Follow step 1) and step 2-a) to create a new password.

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

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

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

To cancel parental lock temporarily

Some discs allow you to cancel the parental lock temporarily. With those discs, the message below will appear when you try to play them back.

"Enter current password."

Follow the instruction which appears on the screen to cancel the parental lock. After entering the password, "Rating Level" appears.

Select desired rating level, then press [OK].

Network Connection

Set up the network connection settings in order to use the BD-Live function with a BD-Live disc.

Connection Test

HOME → "Play Disc Setup" → "Custom" → "Other" → "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 highlight "Settings" in the home menu, then press [OK].
- 2) Use [▲ / ▼] to highlight "Play Disc Setup", then press [OK].
- 3) Use [▲ / ▼] to highlight "Custom", then press [OK].
- 4) Use [▲ / ▼] to highlight "Other", then press [OK].
- 5) Use [▲ / ▼] to highlight "Network Connection", then press [OK].
- 6) Use [▲ / ▼] to highlight "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'.

- 7) 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 can enjoy the BD-Live functions using the Internet without making any extra settings.
- If the connection test fails, you may need to change the MAC address settings of your router. You can check the MAC address of this unit on "Network Status" screen. (refer to page 47).

Enable(Easy)

HOME → "PlayDisc Setup" → "Custom" → "Other" → "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 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "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. Press [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 → "PlayDisc Setup" → "Custom" → "Other" → "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 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Enable(Custom)", then press [OK].
- 3) Use [▲ / ▼] to highlight "IP Address Setting", then press [OK].
- 4) Use [▲ / ▼] to highlight 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 number is unknown, check the IP address number 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 numbers instructed by your Internet provider.
- If the number is unknown, check the number of other devices (e.g. PC connected via LAN cable) and assign the same number.

- 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 number is between 0 and 255.
- If you enter a number larger than 255, the number will automatically be 255.
- The manually entered number 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 number 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 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Enable(Custom)", then press [OK].
- 3) Use [▲ / ▼] to highlight "Proxy Setting", then press [OK].
- 4) Use [▲ / ▼] to highlight 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.

△ Proxy Setting															
Proxy Address															
xxxxxxxx															
1	2	3	4	5	6	7	8	9	0						
a	b	c	d	e	f	g	h	i	j						
k	l	m	n	o	p	q	r	s	t						
u	v	w	x	y	z	-	_	OK							
● Clear ● All Clear ● a/A/@ ○ OK															

[▲ / ▼ / ◀ / ▶] : 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 ? @!?

*[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) Proxy port setting screen will appear. Enter proxy port number with number buttons.

△ Proxy Setting	
Proxy Port	x
● Clear ● ● ● ○ OK	

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

Proxy Address	xxxxxxxxxxxxxxxx
Proxy Port	xxxxx
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 number 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, the selected ports may be blocked and not be able to use 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 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Enable(Custom)", then press [OK].
- 3) Use [▲ / ▼] to highlight "Connection Speed", then press [OK].
- 4) Use [▲ / ▼] to highlight 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 the Internet access from the BD-Live functions. (The default setting is "Allow".)

- 1) Follow steps 1) to 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Enable(Custom)", then press [OK].
- 3) Use [▲ / ▼] to highlight "BD-Live Setting", then press [OK].
- 4) Use [▲ / ▼] to highlight the desired setting, then press [OK].

"Allow":

Internet access is permitted from 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 are prohibited.

"Prohibit":

Internet access is prohibited from 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 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Enable(Custom)", then press [OK].
- 3) Use [▲ / ▼] to highlight "Network Status", then press [OK].
 - Network setting list will be displayed.
- 4) Press [BACK ↵] to go back to the previous screen, or press [HOME ⬅] to go back to the home menu.

Disable

HOME → "PlayDisc Setup" → "Custom" → "Other" → "Network Connection" → "Disable"

Deactivate all the network connection and settings.

- 1) Follow steps 1) to 5) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Disable", then press [OK].
- 3) Use [▲ / ▼] to highlight "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

Disc Upgrade

HOME → "PlayDisc Setup" → "Custom" → "Other" → "Software Upgrade" → "Disc Upgrade"

You can upgrade the software by using disc.

- 1) Follow steps 1) to 4) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Software Upgrade", then press [OK].
- 3) Use [▲ / ▼] to highlight "Disc Upgrade", then press [OK].
- 4) Use [▲ / ▼] to highlight "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 highlight "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/support to download the latest firmware version.
- Please do not unplug the AC power cord while executing the "Disc Upgrade".
- All settings will remain the same even if you upgrade the firmware version.

Network Upgrade

HOME → "Play Disc Setup" → "Custom" → "Other" → "Software Upgrade" → "Network Upgrade"

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

- 1) Follow steps 1) to 4) in "Connection Test" on page 44.
- 2) Use [▲ / ▼] to highlight "Software Upgrade", then press [OK].
- 3) Use [▲ / ▼] to highlight "Network Upgrade", then press [OK].
- 4) Use [▲ / ▼] to highlight "Yes", then press [OK].
 - This unit will then start checking for the latest firmware version.
- 5) Confirmation message will appear. Use [◀ / ▶] to highlight "Yes", then press [OK].
 - The unit will start downloading the latest firmware version.
- 6) When the download completes, confirmation message will appear. Press [OK].
 - The unit will start upgrading the firmware 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

- 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


Initialize the setting, SD Memory Card or network setting.

- 1) Use [▲ / ▼] to highlight "Factory Default" in the home menu, then press [OK].
- 2) Use [▲ / ▼] to highlight the desired setting, then press [OK].
 - "Settings":
All the settings except for the "Parental" 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.
- 3) Use [▲ / ▼] to highlight "Yes", then press [OK].
 - Confirmation message will appear. Press [OK] to complete the setting.
- 4) 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.

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 video setup. Press and hold [▶ (PLAY)] on the front panel for 5 seconds to change the setting back to its default.
	No audio / video signal on the display device via HDMI cable.	If the unit is connected to the unauthorized display device with an HDMI cable, the audio/video signal may not be output.
	No high-definition video signal on the TV.	Does the disc contain high-definition video? High-definition video is not available when the disc does not contain it. Does the TV support high-definition video? High-definition video is not available when the TV does not support it.
	No audio signal from the loudspeakers of the TV.	In the settings menu, set "HDMI Audio" to "PCM" or "Normal(Bitstream)".
	No audio signal from the speaker system.	Increase the volume level of the speaker system. In the settings menu, set "HDMI Audio" to "Off".
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. In the settings menu, set "HDMI Audio" to "Off".
	Cannot play back a disc.	Make sure that the product supports the disc. Make sure that the Blu-ray Disc player supports the region code of the DVD or BD. (BD: A: DVD: All or 1) For DVD-RW/-R, 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 MP3 files from a disc.	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET format. Make sure that the bit rate of the MP3 files is between 112 and 320 kbps. Make sure that the sample rate of the MP3 files is 32kHz, 44.1kHz or 48kHz.
	Cannot play back Windows Media™ Audio files from a disc.	Make sure that the sample rate of the Windows Media™ Audio files is 44.1 kHz or 48 kHz.
	Cannot play back DivX® files from a disc.	Make sure that the file extension is .avi, .AVI, .divx or .DIVX.
	 in the upper right hand corner of the screen.	The operation is not possible.
	Cannot find a JPEG file.	Make sure that the selected group (folder) does not contain more than 9,999 files for DVD, and 999 files for CD. Make sure that the file extension is .jpg, .JPG, .jpeg or .JPEG.
	Cannot find an MP3 and Windows Media™ Audio file.	Make sure that the selected folder does not contain more than 9,999 files for DVD, and 999 files for CD. Make sure that the file extension is .mp3 or .MP3 for MP3, .wma or .WMA for Windows Media™ Audio.
	Error message appears when I select "Auto" in the "OSD Language".	Make sure that the unit is connected to the PHILIPS brand EasyLink TV and the "EasyLink (CEC)" is set to "On". This error message may appear when your TV's OSD language is not supported by this unit.

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TROUBLESHOOTING

GENERAL	Problem	Tip
	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".
	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.	The 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.
	No audio from iPod playback.	Make sure the docking station is connected to this unit.
	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.
	Cannot use the BD-Live function or download of data does not perform properly.	Insert an SD card with enough space(1GB or more). Check if an SD card is correctly inserted.
	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.

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".

DivX®

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

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.

EasyLink

Philips EasyLink uses the HDMI CEC industry standard protocol to share functionalities between the unit and its connected devices. This feature is only available if you connect this unit to a HDMI CEC compliant TV with a HDMI cable.

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.

GLOSSARY

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 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.

MP3 (MPEG audio layer 3)

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

Local Storage

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

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital 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 use 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 play the secondary video, secondary audio and the subtitle at the same time. The method of the playback varies depending on discs.

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 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	120 W (standby: 0.7 W)
Total output power (Amplifier)	Home theater mode: 1000 W FTC* output power : 745 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 2.75 x 15.3 inches (435 x 70 x 390 mm)
Weight	Total weight: 35.3 lbs. (16 kg) Main unit: 11 lbs. (5 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			
	iPod dock jack Docking station	Dimensions: ø4.09 x 1.36 inches (ø103.8 x 34.6 mm) Weight: 0.33 lbs. (0.15 kg)		
Rear	Audio output (Analog) Front and rear speakers	System: Full range satellite Impedance: 6Ω Frequency response: 135 Hz ~ 20 kHz Dimensions: 4.1 x 8.0 x 2.8 inches (103 x 203 x 71 mm) Weight: 1.2 lbs. (0.56 kg) each		
	Center speaker	System: Full range satellite Impedance: 6Ω Frequency response: 155 Hz ~ 20 kHz Dimensions: 9.6 x 4.1 x 2.9 inches (244 x 105 x 74 mm) Weight: 1.9 lbs. (0.84 kg)		
	Subwoofer	Impedance: 6Ω Speaker drivers: 8 inches (203 mm) woofer Frequency response: 65 Hz ~ 4 kHz Dimensions: 6.4 x 14.3 x 14.5 inches (162.5 x 362.5 x 369 mm) Weight: 2.87 lbs. (1.3 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 /C _B : 700 mVp-p (75Ω) P _R /C _R : 700 mVp-p (75Ω)		
	Audio input (Digital) RCA jack x 1 Optical jack x 1	500 mVp-p (75Ω) Digital connector		
	HDMI output HDMI jack x 1	Video: 480p, 720p, 1080i, 1080p/Audio		
	LAN terminal	10BASE-T / 100BASE-TX		

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.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS:

This Limited Warranty applies only to the new products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any non-Philips hardware product or any software, even if packaged or sold with the product. Non-Philips manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

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 of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of 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

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. PHILIPS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

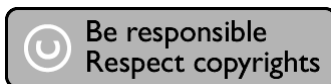
This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

P&F USA, Inc.
PO Box 430 Daleville, IN 47334-0430

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<http://www.philips.com/welcome>



HTS5100B



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