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EN	User manual	3
ZH-CN	用户手册	43

# Contents

<b>1 Important</b>	4	<b>6 Adjust settings</b>	26
Safety and important notice	4	Video setup	26
Trademark notice	5	Audio setup	28
		Network setup	29
<b>2 Your Blu-ray Micro System</b>	6	EasyLink setup	29
Feature highlights	6	Preference setup	30
Playable media	7	Advanced setup	31
Product overview	8		
<b>3 Connect</b>	11	<b>7 Tune to FM radio stations</b>	32
Preparations	11	Program radio stations automatically	32
Connect speakers	11	Program radio stations manually	33
Connect video/audio cables	12	Tune to a preset radio station	33
Route audio to other devices	14		
Connect FM antenna	15	<b>8 Adjust volume level and sound effect</b>	33
Connect a USB device	15	Adjust volume level	33
Connect a network	15	Select a sound effect	33
Connect power	16	Mute sound	34
		Listen through headphone	34
<b>4 Get started</b>	16		
Prepare the remote control	16	<b>9 Additional Information</b>	34
Set clock	17	Adjust brightness of display panel	34
Find the TV input	17	Set the alarm timer	34
Use the Home menu	17	Set the sleep timer	35
Navigate a menu	17	Update software	35
Select a menu display language	17	Care	35
Set up a network	18	Specifications	36
Use Philips EasyLink	19		
<b>5 Play</b>	20	<b>10 Troubleshooting</b>	37
Play a disc	20		
Play from a USB device	20	<b>11 Glossary</b>	39
Play video	21		
Play photo	24		
Play music	25		

# 1 Important

## Safety and important notice



### Warning

- Risk of overheating! Never install the product in a confined space. Always leave a space of at least 4 inches around the product for ventilation. Ensure curtains or other objects never cover the ventilation slots on the product.
- Never place the product, remote control or batteries near naked flames or other heat sources, including direct sunlight.
- Only use this product indoors. Keep this product away from water, moisture and liquid-filled objects.
- Never place this product on other electrical equipment.
- Keep away from this product during lightning storms.
- Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Visible and invisible laser radiation when open. Avoid exposure to beam.

### To establish a safe volume level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

### Listen for reasonable periods of time:

- Prolonged exposure to sound, even at normally 'safe' levels, can also cause hearing loss.
- Be sure to use your equipment reasonably and take appropriate breaks.

### Be sure to observe the following guidelines when using your headphones.

- Listen at reasonable volumes for reasonable periods of time.
- Be careful not to adjust the volume as your hearing adapts.
- Do not turn up the volume so high that you can't hear what's around you.
- You should use caution or temporarily discontinue use in potentially hazardous situations. Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

## Hearing safety

### Listen at a moderate volume.

- Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.
- Sound can be deceiving. Over time your hearing 'comfort level' adapts to higher volumes of sound. So after prolonged listening, what sounds 'normal' can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.



## Disposal of your old product and batteries



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products and

batteries. The correct disposal of these products helps prevent potentially negative consequences on the environment and human health.

Your product contains batteries, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

Please visit [www.recycle.philips.com](http://www.recycle.philips.com) for additional information on a recycling center in your area.

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Respect copyrights**

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### Open source software

Philips Electronics Hong Kong Ltd. hereby offers to deliver, upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licenses.

This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain source code, please contact [open.source@philips.com](mailto:open.source@philips.com). If you prefer not to use email or if you do not receive confirmation receipt within a week after mailing to this email address, please write to "Open Source Team, Philips Intellectual Property & Standards, P.O. Box 220, 5600 AE Eindhoven, The Netherlands." If you do not receive timely confirmation of your letter, please email to the email address above.

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**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](http://vod.divx.com) with this code to complete the registration process and learn more about DivX VOD.

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## 2 Your Blu-ray Micro System

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers (e.g. product software upgrade), register your product at [www.philips.com/welcome](http://www.philips.com/welcome).

If you contact Philips, you will be asked for the model and serial number of this product. The model number and serial number are on the bottom of this product. Write the numbers here:

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

---

### Feature highlights

For optimal performance of this product, it is recommended to regularly update the software of this product.

#### **High-Definition entertainment**

Watch high-definition content disc with HDTV (High Definition Television). Connect it through a high speed HDMI cable (1.3 or category 2). You can enjoy excellent picture quality up to 1080p resolution with the frame rate of 24 frames per second with progressive scan output.

#### **BD-Live**

Connect this product to the movie studios website via the LAN port or external Wi-Fi to access a variety of up-to-date content (e.g. refreshed previews and exclusive special features).




## Playable media

This product can play:

- BD-Video, BD-R/RE2.0
- DVD, DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL (Dual Layer)
- Video CD/SVCD
- Audio CD, CD-R/CD-RW, MP3 media, WMA media, JPEG files
- DivX (Ultra)/DivX Plus HD media
- USB flash drive

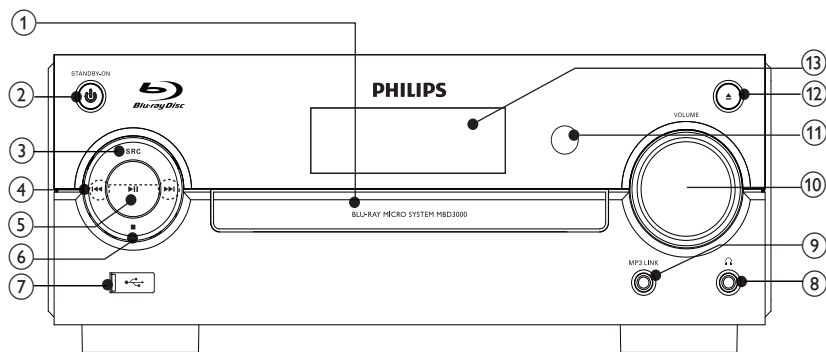
## Region codes

You can play discs with the following region codes.

Region code		Countries
DVD	Blu-ray	
 		China

# Product overview

## Main unit



### ① Disc compartment

### ② STANDBY-ON

- Turn on this product or switch to the standby mode.

### ③ SRC

- Select a source.

### ④

- Skip to the previous/next track.
- Skip to the previous/next title or chapter.
- Tune to a radio station.

### ⑤

- Start or pause play.

### ⑥

- Stop play.
- Erase a program.

### ⑦

- Connect to a USB flash drive.

### ⑧

- Headphone socket.

### ⑨ MP3 LINK

- Connect to an external audio device.

### ⑩ VOLUME

- Adjust volume.
- Adjust time.

### ⑪ IR sensor

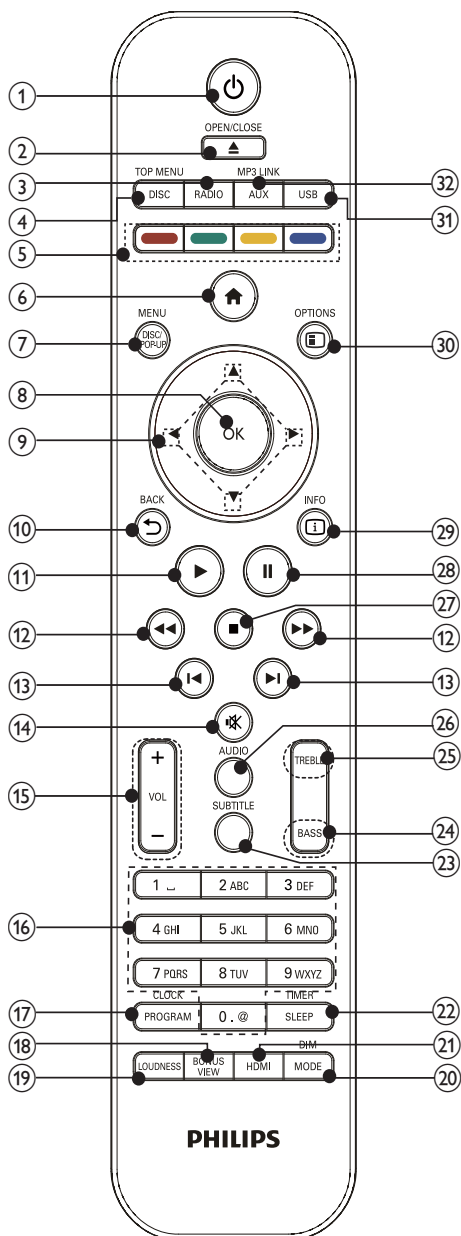
- Detect signals from the remote control. Always point the remote control at the IR sensor.

### ⑫

- Open or close the disc compartment.

### ⑬ Display panel

## Remote control



- ①
  - Turn on this product or switch to the standby mode.
  - When EasyLink is enabled, press and hold for at least three seconds to turn all connected HDMI CEC compliant devices to standby.
- ② **OPEN/CLOSE ▲**
  - Open or close the disc compartment.
- ③ **RADIO**
  - Switch to FM radio.
- ④ **DISC/TOP MENU**
  - Switch to the disc source.
  - **BD**: Display the top menu.
  - **DVD**: Display the title menu.
- ⑤ **Color buttons**
  - **BD**: Select tasks or options.
- ⑥
  - Access the home menu of this product.
- ⑦ **DISC/POP-UP/MENU**
  - **BD**: Access or exit the pop-up menu.
  - **DVD**: Access or exit the disc menu.
- ⑧ **OK**
  - Confirm an entry or selection.
- ⑨
  - Navigate through the menus.
  - : Search forward or backward for a radio station.
  - : Tune to a radio station.
- ⑩ **↶ BACK**
  - Return to a previous display menu.
- ⑪
  - Start or resume play.
- ⑫
  - Search backward or forward.
- ⑬
  - Skip to the previous or next title, chapter, or track.



- ⑭ **mute**
  - Mute or restore volume.
- ⑮ **VOL +/-**
  - Adjust volume.
  - Adjust time.
- ⑯ **Alphanumeric buttons**
  - Select an item to play.
  - Enter numbers/letters/text.
- ⑰ **PROGRAM/CLOCK**
  - Program radio stations.
  - Set the clock.
  - Display the set clock (unavailable in the tuner mode).
- ⑱ **BONUSVIEW**
  - Turn on or off the secondary video in a small screen window during play (applicable only to a Blu-ray disc that supports the BONUSVIEW or Picture-In-Picture feature).
- ⑲ **LOUDNESS**
  - Turn on or off automatic loudness adjustment.
- ⑳ **MODE/DIM**
  - Select repeat play modes.
  - Select shuffle play modes.
  - Select a brightness level for the display panel on the main unit.
- ㉑ **HDMI**
  - Select the video resolution of HDMI output.
- ㉒ **SLEEP/TIMER**
  - Set the sleep timer.
  - Set the alarm timer.
- ㉓ **SUBTITLE**
  - Select a subtitle language on a disc.
- ㉔ **BASS**
  - Adjust bass level.
- ㉕ **TREBLE**
  - Adjust treble level.
- ㉖ **AUDIO**
  - Select an audio language or channel on a disc.
- ㉗ **■**
  - Stop play.
  - Move the paused picture one step forward.
- ㉘ **⏸**
  - Pause play.
- ㉙ **i INFO**
  - Display the current status or the disc information.
  - Display the ID3 information (if available) of MP3 tracks.
- ㉚ **≡ OPTIONS**
  - Access options for the current activity or selection.
- ㉛ **USB**
  - Switch to the USB input source.
- ㉜ **AUX/MP3 LINK**
  - Switch to the AUX/MP3 Link input source.

# 3 Connect

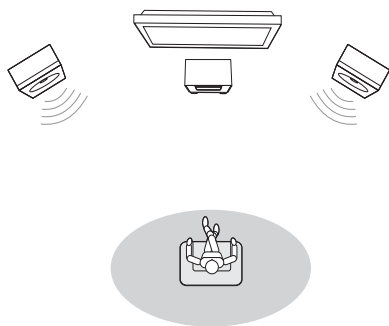
Make the following connections to use this product.

## Preparations

- 1 Place the apparatus near to the TV.
- 2 Place the front left and right speakers at equal distance from the TV and at an angle of approximately 45 degrees from the listening position.

### Note

- To avoid magnetic interference or unwanted noise, never place this apparatus and speakers too close to any radiation devices.



### Basic connections:

- Speakers
- Video
- Audio
- Power

### Optional connections:

- Route audio to other devices
  - HDMI-compliant AV receiver/ amplifier
  - Multi-channel AV amplifier/receiver
  - Digital AV amplifier/receiver

- Analog stereo system
- FM antenna
- USB flash drive
- Wired/Wireless network

### Note

- Refer to the type plate at the back or bottom of the product for identification and supply ratings.
- Before you make or change any connections, ensure that all the devices are disconnected from the power outlet.

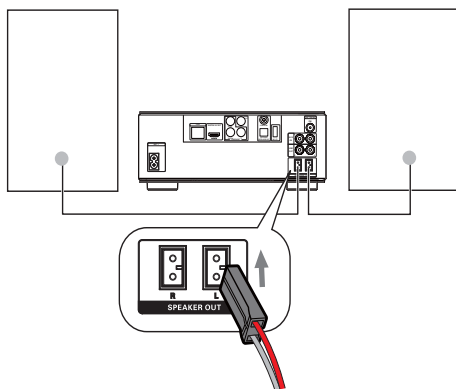
## Connect speakers

### Note

- Insert the stripped portion of each speaker wire into the socket completely.
- For optimal sound, use the supplied speakers only.
- Connect only speakers with impedance that is the same or higher than the supplied speakers.

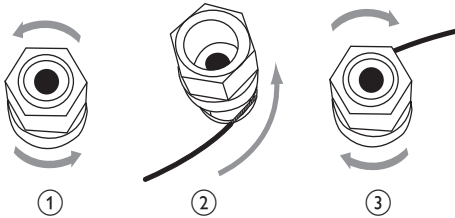
### For the main unit side:

- 1 Match the type and colors of the speaker cable connectors to the speaker input sockets on the back of the main unit.
- 2 Connect the speaker cables.



For the speaker side:

- 1 Unscrew the speaker connectors.
- 2 For the left speaker, identify the speaker cable that is connected to the left connectors on the main unit.
- 3 Insert fully the red end of the speaker cable into the red (+) connector.
- 4 Screw the red (+) connector to secure the cable.
- 5 Insert fully the silver end of the speaker cable into the black (-) connector.
- 6 Screw the black (-) connector to secure the cable.
- 7 Repeat steps 2-6 for the right speaker.

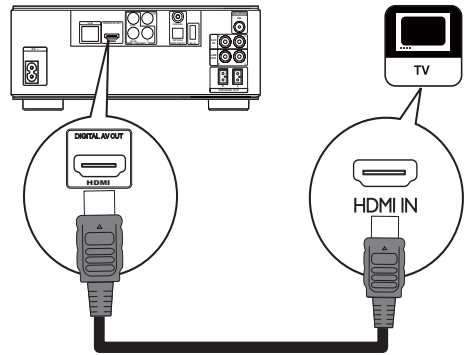


## Connect video/audio cables

Select the best video connection that the TV can support.

- **Option 1:** Connect to the HDMI jack (for an HDMI, DVI or HDCP-compliant TV).
- **Option 2:** Connect to the component video jacks (for a standard TV or Progressive Scan TV).
- **Option 3:** Connect to the composite video jack (for a standard TV).

### Option 1: Connect to the HDMI jack

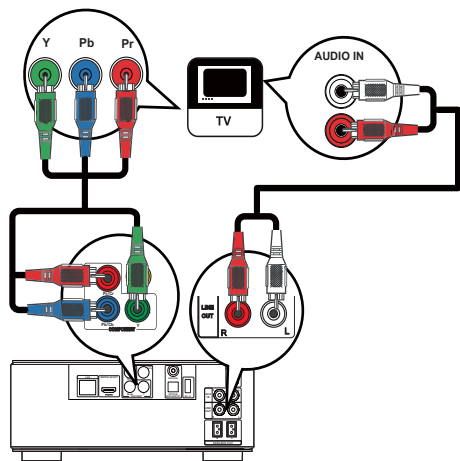


- 1 Connect an HDMI cable (not supplied) to:
  - the **HDMI** jack on this product.
  - the HDMI input jack on the TV.

#### Tip

- If the TV has a DVI connector only, connect via an HDMI/DVI adaptor. Connect an audio cable for sound output.
- You can optimize the video output. Press the **HDMI** button repeatedly to select the best resolution the TV can support.
- If this product connects to a TV compatible with 1080p or 1080p/24Hz, Philips recommends HDMI category 2 cable, also known as High Speed HDMI cable, for optimal video and audio output.
- To play the digital video images of a BD-video or DVD-video via an HDMI connection, it is necessary that both this product and the display device (or an AV receiver/amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system).
- This type of connection provides best picture quality.

## Option 2: Connect to the component video jacks



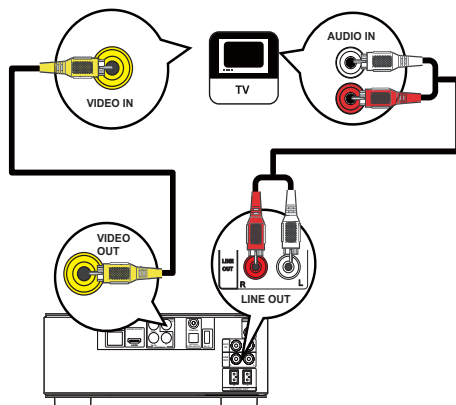
- 1 Connect the component video cables (not supplied) to:
  - the **Y Pb/Cb Pr/Cr** jacks on this product.
  - the **COMPONENT VIDEO** input jacks on the TV.
- 2 Connect the audio cables to:
  - the **LINE OUT/AUDIO -L/R** jacks on this product.
  - the **AUDIO** input jacks on the TV.



### Tip

- The component video input jack on the TV might be labeled as Y Pb Pr or YUV.

## Option 3: Connect to the composite video jack



- 1 Connect a composite video cable to:
  - the **VIDEO** jack on this product.
  - the **VIDEO** input jack on the TV.
- 2 Connect the audio cables to:
  - the **LINE OUT/AUDIO -L/R** jacks on this product.
  - the **AUDIO** input jacks on the TV.



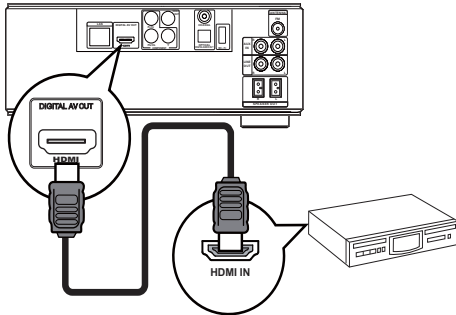
### Tip

- The video input jack on the TV might be labeled as A/V IN, VIDEO IN, COMPOSITE or BASEBAND.

## Route audio to other devices

You can route the audio from this product to other devices.

### Connect to an HDMI-compliant AV receiver/amplifier



- 1 Connect an HDMI cable (not supplied) to:
  - the **HDMI** jack on this player.
  - the HDMI input jack on the device.

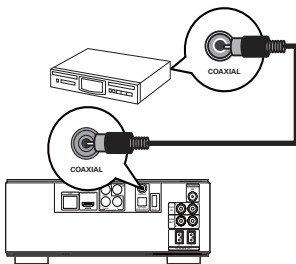


#### Tip

- The HDMI connection provides best audio quality.

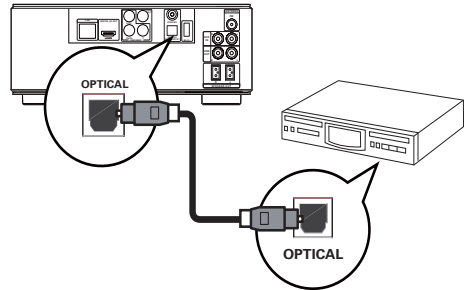
### Connect to a digital AV amplifier/receiver

Connect to coaxial jack



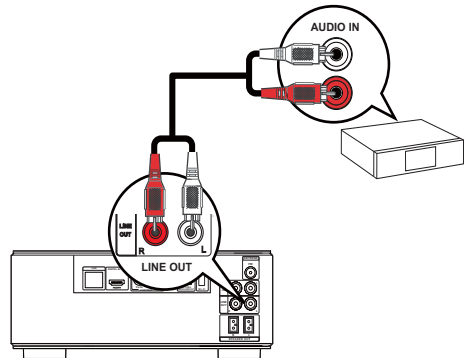
- 1 Connect a coaxial cable (not supplied) to:
  - the **COAXIAL** jack on this product.
  - the COAXIAL/DIGITAL input jack on the device.

Connect to optical jack



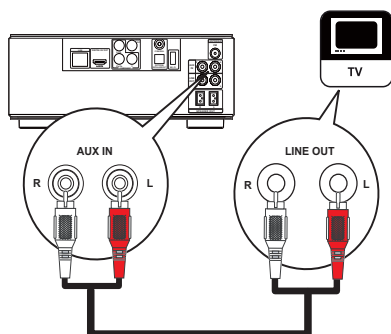
- 1 Connect an optical cable (not supplied) to:
  - the **OPTICAL** jack on this product.
  - the OPTICAL/DIGITAL input jack on the device.

### Connect an analogue stereo system



- 1 Connect the audio cables to:
  - the **LINE OUT/AUDIO -L/R** jacks on this product.
  - the AUDIO input jacks on the device.

## Connect audio from TV or other devices



Use this product to play audio from the TV or other device such as a cable box.

### Tip

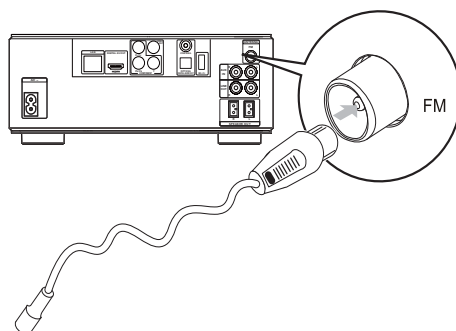
- Press **AUX** to select the audio output of your connection.

## Connect FM antenna


### Tip

- For optimal reception, fully extend and adjust the position of the antenna.
- For better FM stereo reception, connect an outdoor FM antenna to the **FM** jack.
- The unit does not support MW radio reception.



- 1 Connect the supplied FM wire antenna to the **FM** socket on the unit.



## Connect a USB device

- 1 Connect a USB device to the  (USB) jack on the front panel of this product.

### Note

- Press , and select **[Browse USB]** in the menu to access the content and play the files.
- Connect a USB device only to the  jack on the front panel of this product.
- Philips does not guarantee compatibility with all USB devices.

## Connect a network

With a wired or wireless connection (see "Get started" > "Set up a network"), you can connect this product to the Internet for software update/BD Live.

### Note

- Internet access to Philips website for software update may not be allowed, depending on the router you use or the Internet Service Provider's policy. Contact your Internet Service Provider for more information.

## Connect power

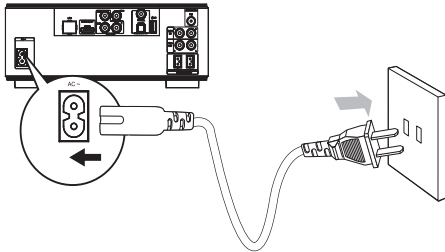
### ! Caution

- Risk of product damage! Ensure that the power supply voltage corresponds to the voltage printed on the back of the unit.
- Before connecting the AC power cord, ensure you have completed all other connections.

### ≡ Note

- The type plate is located on the bottom of the product.

- 1 Connect the AC power cable to:
  - this product.
  - the wall socket.
  - This product is ready to be set up for use.



## 4 Get started

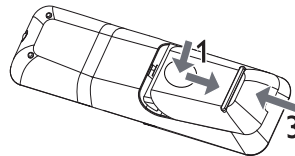
### ! Caution

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Always follow the instructions in this chapter in sequence.

## Prepare the remote control

- 1 Press and push the battery compartment to slide it open (see “1” in the illustration).
- 2 Insert two AAA batteries with correct polarity (+/-) as indicated.
- 3 Push and slide back the battery compartment (see “3” in the illustration).



### ≡ Note

- If you are not going to use the remote control for a long time, remove the batteries.
- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Batteries contain chemical substances, so they should be disposed of properly.

## Set clock

- 1 In the standby mode, press and hold **PROGRAM/CLOCK** to activate the clock setting mode.  
 ↳ The hour digits are displayed and begin to blink.
- 2 Press **+ VOL -** to set the hour, then press **PROGRAM/CLOCK** again.  
 ↳ The minute digits are displayed and begin to blink.
- 3 Press **+ VOL -** to set the minute, then press **PROGRAM/CLOCK** to confirm the clock setting.

## Find the TV input

- 1 Press **⏻** to turn on this player.
- 2 Turn on the TV and switch to the video input (refer to the TV user manual on how to select the A/V input).

## Use the Home menu



- 1 Press **⬆** to display the home menu.
  - To start disc play, select **[Play Disc]**.
  - To view the USB contents, select **[Browse USB]**.
  - To access the setup menus, select **[Setup]**.

## Navigate a menu

- 1 When a menu is displayed, press the buttons on the remote control to navigate.

Button	Action
▲▼	Move up or down.
◀▶	Move left or right.
OK	Confirm a selection.
1 ... 2 ABC 3 DEF	Enter numbers/ letters/text.
4 GHI 5 JKL 6 MNO	
7 PQRS 8 TUV 9 WXYZ	
0 . #	

## Select a menu display language

### Note

- If this product is connected to an HDMI CEC compliant TV, skip this setting. It switches automatically to the same OSD menu language as per your TV setting (if the language set on TV is supported by this product).

- 1 In the Home menu, select **[Setup]** and press **OK**.
- 2 Select **[Preference Setup]**, and press **▶**.
- 3 Select **[Menu Language]**, and press **▶**.

Video Setup	Menu Language	
	Auto (ENG)	
Audio Setup	Audio	English
	Subtitle	Čeština
Network Setup	Disc Menu	Dansk
EasyLink Setup	Parental Control	Deutsch
	Screen Saver	Español
Preference Setup	Auto Subtitle Shift	Français
	Change Password	Italiano
Advanced Setup		

- The language options may vary from different regions.
- 4 Press **▲▼** to select a language, and press **OK**.



## Set up a network

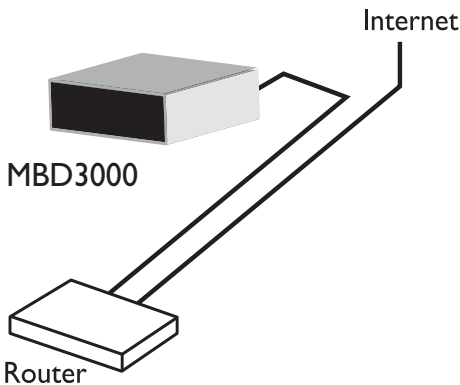
You can connect this product to the Internet for software update/BD Live enjoyment.

### Set up a wired network

#### Note

- Ensure that the network cables are properly connected.

- 1 Connect a network cable (not supplied) to:
  - the **LAN** port on this product.
  - the LAN port on a router with Internet connection.
- 2 Turn on this product and the router.



#### Tip

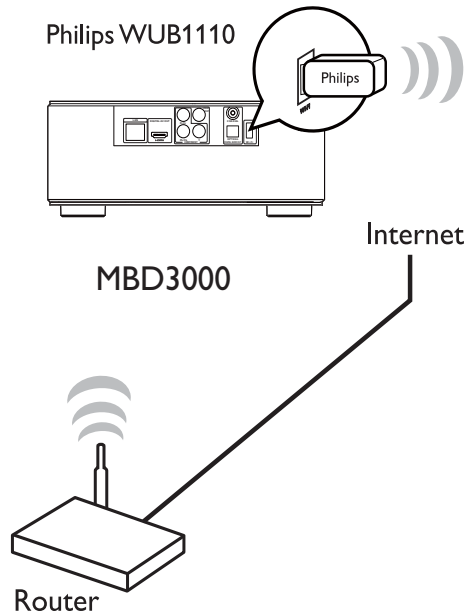
- The wired network ensures the best performance for data transmission between the devices.

## Set up a wireless network

#### Note

- For wireless connection, you need to use an optional Philips Wi-Fi USB adapter (named WUB1110).
- The Wi-Fi USB Adapter (WUB1110) is not included. To purchase this adapter, visit shop.philips.com. If the Philips online shop is not available in your country, please contact Philips customer service. For contact details, go to [www.philips.com/support](http://www.philips.com/support).

- 1 Connect a Philips Wi-Fi USB adapter (named WUB1110, sold separately) to the **Wi-Fi** port on the back of this product.
- 2 Turn on this product and the router.




#### Tip

- The wireless performance can vary due to bandwidth connection, network traffic and some environmental effects, such as surrounded by metal panel or heavy concrete, radio interference and coverage distance.

## Install the network connection

For the first time you connect the network, install the network connection.

- 1 Set up a wired or wireless network.
- 2 Press  to display the home menu.
- 3 Select **[Setup]** and press **OK**.
- 4 Select **[Network Setup]**, and press **►**.
- 5 Select **[Network Installation]**, and press **OK**.

Video Setup	Network Installation ●
Audio Setup	View Network Settings ●
Network Setup	View Wireless Settings ●
EasyLink Setup	
Preference Setup	
Advanced Setup	

- 6 Follow the on-screen instructions to complete the network installation.
  - ↳ After the network installation completes, you can access the services: BD-Live and software updates.



### Tip

- You can check the status of the wired or wireless connection of this product (see "Adjust settings" > "Network Setup" > **[View Network Settings]** or **[View Wireless Settings]**).

## Use Philips EasyLink


This player supports Philips EasyLink which uses the HDMI CEC (Consumer Electronics Control) protocol. You can use one single remote control to control EasyLink-compliant devices that are connected through HDMI connectors.




### Note

- To enable the EasyLink feature, you must turn on the HDMI CEC operations on the TV and on other devices connected to TV. Refer to the TVs/devices manual for details.

## One-touch play

- 1 Press  (standby) to turn on this product.
  - ↳ The TV (if the TV supports one-touch play) automatically turns on and switches to the correct video-in channel.
  - ↳ If a disc is loaded in this product, disc play automatically starts.

## One-touch standby

- 1 Press and hold  (standby) for more than 3 seconds.
  - ↳ All the connected devices (if the device supports one-touch standby) automatically switch to standby.


## Map the devices to the audio inputs



### Note

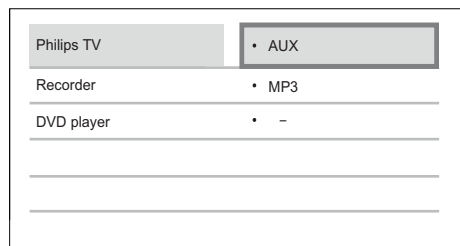
- Before you start, ensure that the audio output of the HDMI TV and other HDMI devices have been connected to the audio input jacks on this product.

Video Setup	EasyLink ● On
Audio Setup	One Touch Play ● On
Network Setup	One Touch Standby ● On
EasyLink Setup	System Audio Control ● On
Preference Setup	Audio Input Mapping ●
Advanced Setup	

- 1 Press , select **[Setup]**, then press **OK**.
- 2 Select **[EasyLink Setup]**, then press **►**.

- **[One Touch Play]** and **[One Touch Standby]** functions are turned on by default.

- 3 Select **[System Audio Control]** > **[On]**.
- 4 Read the on-screen instructions and press **OK** to select **[Continue]**.
  - ↳ The product scans and displays the valid devices.
- 5 Press **OK** to select **[Continue]**.



Select a connected device on the left of the menu, then press **.**

- 6 Select the connector that is used for the device, then press **OK**.
  - ↳ Repeat steps 6~7 to map other devices.
- 7 Press **▲** to exit the menu.

## Update audio mapping from connected devices

If you have already mapped audio from connected devices, you can use this procedure to update your mapping.

- 1 Press **▲**, select **[Settings]**, then press **OK**.
- 2 Select **[EasyLink Setup]** > **[Audio Input Mapping]**, then press **OK**.
- 3 Select a connected device then press **▶**.
- 4 Select the connector that is used for the device then press **OK**.
- 5 Repeat steps 4~5 to map other connected devices.

### Note

- Philips does not guarantee interoperability with other HDMI CEC devices.

# 5 Play

## Play a disc

### ! Caution

- Do not place any objects other than discs into the disc compartment.

- 1 Press **OPEN/CLOSE ▲** to open the disc compartment.
- 2 Insert a disc with its label facing up.
- 3 Press **OPEN/CLOSE ▲** to close the disc compartment and start disc play.
  - To view disc play, turn on the TV to the video input.
  - To stop disc play, press **■**.

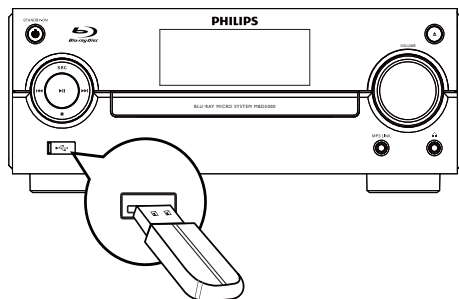
### ≡ Note

- Check disc/file formats supported (see "Your Blu-ray Micro System" > "Playable media").
- If the password entry menu is displayed, enter the password before you can play the locked or restricted disc (see "Adjust settings" > "Preference Setup" > **[Parental Control]**).
- If you pause or stop a disc, the screen saver appears after 10 minutes of inactivity. To deactivate the screen saver, press any button.
- After you pause or stop a disc and no button is pressed within 5 minutes, this product automatically switches to standby.

## Play from a USB device

Play or view media files on the following USB devices:

- flash drive
- memory card reader
- HDD (This product can detect only a portable hard disc drive with USB power peak current no more than 500mA.)



- 1 Connect a USB device to the (USB) jack on the front panel of this product.
- 2 Press , and select **[Browse USB]**, and press **OK**.  
 ↳ A contents menu is displayed.
- 3 Select a file to play, and press **OK**.  
 ↳ Play starts (see "Play video", "Play photo", "Play music" for details).
  - To stop play, press or remove the USB device.

#### Note

- Philips does not guarantee compatibility with all USB devices.
- Not all digital cameras are supported. Digital cameras that require PC programme installation are not supported.
- NTFS (New Technology File System) data format is not supported.

Button	Action
	Pause play.
	Start or resume play.
	Stop play.
	Skip to a previous/next title or chapter.
	Search fast-backward or fast-forward. Press repeatedly to change the search speed.

#### Note

- For BD discs with Java application, availability of the play resume function depends on specific discs.

## Change video play

- 1 Play a title.
- 2 Use the remote control to change the play.

## Play video

### Control video play

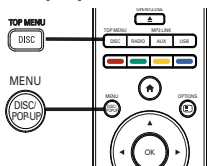
- 1 Play a title.
- 2 Use the remote control to control the play.

Button	Action
<b>AUDIO</b>	Directly select an audio language or channel on a disc.
<b>SUBTITLE</b>	Directly select a subtitle language on a disc.
<b>MODE/DIM</b>	Directly select/turn off the repeat or shuffle mode. <ul style="list-style-type: none"> <li>Repeat options may vary from the disc type.</li> <li>For VCDs, repeat play is only possible when the PBC mode is turned off.</li> </ul>
<b>⏏ OPTIONS</b>	Access the above mentioned actions or more options.
<b>ℹ INFO</b>	Display the current status or disc information.
<b>BONUSVIEW</b>	Turn on or off the secondary video in a small screen window during play (applicable only to BD-video that supports the <b>BONUSVIEW</b> or <b>Picture-In-Picture</b> feature).

### Note

- Some operations may not work with some discs. See the information accompanying the disc for details.

## Display menu



### BD-video disc

- TOP MENU:** stop video play and show the disc menu. This feature is disc-dependent.
- POP-UP MENU:** access the BD-video disc menu without interrupting disc play.

### DVD-video disc

- TOP MENU:** display the root menu of a disc.
- DISC MENU:** display disc information and guide you through the available functions in the disc.

### VCD/SVCD/DivX disc:

- DISC MENU:** display the content of the disc.

### Tip

- If the PBC setting is off, the VCD/SVCD skips the menu and starts play from the first title. To display the menu before play, turn on the PBC setting (see "Adjust settings" > **[Preference Setup]** > **[VCD PBC]**).

## Select a title/chapter

- During play, press **⏏ OPTIONS**.  
→ The play options menu is displayed.
- Select **[Titles]** or **[Chapters]** in the menu, and press **OK**.
- Select the title or chapter number, and press **OK**.

## Skip play to a specific time

- During play, press **⏏ OPTIONS**.  
→ The play options menu is displayed.
- Select **[Time Search]** in the menu, and press **OK**.
- Press the **Navigation buttons** (▲▼) to change the time to skip to, and press **OK**.

## Zoom in/out

- During play, press **⏏ OPTIONS**.  
→ The play options menu is displayed.
- Select **[Zoom]** in the menu, and press **OK**.
- Press the **Navigation buttons** (◀▶) to select a zoom factor, and press **OK**.

- 4 Press the **Navigation buttons** (◀▶) to navigate in the zoomed picture.
- To cancel zoom mode, press **↶** **BACK** to display the zoom factor bar, and press the **Navigation buttons** (◀▶) until the zoom factor [x1] is selected.

## Repeat play for a specific section

- During play, press **⏸** **OPTIONS**.  
↳ The play options menu is displayed.
- Select **[Repeat A-B]** in the menu, and press **OK** to set the starting point.
- Forward the video play, and press **OK** to set the ending point.  
↳ Repeat play starts.
  - To cancel repeat play mode, press **⏸** **OPTIONS**, and select **[Repeat A-B]** and press **OK**.

### Note

- The marked section for repeat play is only possible within a track/title.

## View video play from different camera angles

- During play, press **⏸** **OPTIONS**.  
↳ The play options menu is displayed.
- Select **[Angle List]** in the menu, and press **▶**.
- Select an angle option, and press **OK**.  
↳ Play changes to the selected angle.

### Note

- Applicable only to discs that contain multi-angle scenes.

## Manually shift subtitle display

You can manually adjust the subtitle position on the TV screen.

- During play, press **⏸** **OPTIONS**.  
↳ The play options menu is displayed.
- Select **[Subtitle Shift]** in the menu, and press **OK**.
- Press the **Navigation buttons** (▲▼) to shift the subtitle, and press **OK**.



### Tip

- Subtitle shift is not supported for DivX video with external subtitles.

## Play BD-video

A Blu-ray video disc has a larger capacity and supports features such as high-definition videos, multi-channel surround sounds, interactive menus and so on.

- Insert a BD-video disc.
- Press **⬆**, select **[Play Disc]** and press **OK**.
- Play automatically starts, or select a play option in the menu and press **OK**.
  - During play, you can press **DISC/TOP MENU** to display additional information, features or content stored in the disc.
  - During play, you can press **DISC/POP-UP/MENU** to display the disc menu without interrupting disc play.

## Enjoy BONUSVIEW

(Applicable only to a disc compatible with the BONUSVIEW or Picture-in-Picture feature)  
You can instantly view additional content (such as commentaries) in a small screen window.

- Press **BONUSVIEW** to turn on the secondary video window.
- Press **⏸** **OPTIONS**.  
↳ The play options menu is displayed.

- 3 Select **[2nd Audio Language]** or **[2nd Subtitle Language]** in the menu, and press **▶**.
- 4 Select the language to play, and press **OK**.

### Enjoy BD-LIVE

(Applicable only to a disc that enables BD-Live bonus content. Ensure that this product is connected to the Internet.)

Additional contents (such as movie trailers, subtitles, and son on) can be downloaded to the local storage of this product or a connected USB storage device. Special video data can be played while they are being downloaded.

When the disc supporting BD-Live is played, this product or disc ID can be sent to the content provider via the Internet. The services and functions that can be provided vary from disc to disc.

### Play DivX® video

DivX video is a digital media format that retains high quality despite a high rate of compression.

- 1 Insert a disc or USB device that contains the DivX videos.
- 2 Press **▲**, select **[Play Disc]** or **[Browse USB]**, and press **OK**.  
↳ A contents menu is displayed.
- 3 Select a video folder, and press **OK**.
- 4 Select a title to play, and press **OK**.
- 5 Use the remote control to control the play.

Button	Action
AUDIO	Select an audio language or channel.
SUBTITLE	Select a subtitle language.
■	Stop play.

### Note

- You can only play DivX videos that were rented or purchased with the DivX registration code of this player (see "Adjust Settings" > **[Advanced Setup]** > **[DivX® VOD Code]**).
- You can play DivX video files of up to 4GB.
- This player can display up to 45 characters in the subtitle.

## Play photo

### Play photo as slideshow

You can play JPEG photos (files with .jpeg or .jpg extensions).

- 1 Insert a disc or USB device that contains the JPEG photos.
- 2 Press **▲**, select **[Play Disc]** or **[Browse USB]**, and press **OK**.  
↳ A contents menu is displayed.
- 3 Select a photo folder, and press **OK** to enter.
  - To select a photo, press the **Navigation buttons**.
  - To enlarge the selected photo and start slideshow, press **OK**.
- 4 Press **▶** to start slideshow play.

### Note

- It may require longer time to display the disc content on the TV if there are a large number of songs/photos compiled onto one disc.
- This product can only display digital camera pictures according to the JPEG-EXIF format, typically used by most digital cameras. It cannot display Motion JPEG, or pictures in formats other than JPEG, or sound clips associated with pictures.
- Folders/files that exceed the supported limit of this product cannot be displayed or played.

## Control photo play

- 1 Play a photo slideshow.
  - Press **OPTIONS** to access play options, select an option, and press **OK**.
  - During slideshow play, you may also press to flip a photo horizontally/vertically.
  - If the slideshow stops, press to continue play.

## Set a slideshow interval and animation

- 1 During play, press **OPTIONS**.  
 ↳ The play options menu is displayed.
- 2 Select **[Duration per slide]** in the menu, and press **OK**.
- 3 Select a duration, and press **OK**.
- 4 Select **[Slide Animation]** in the menu, and press **OK**.
- 5 Select a type of animation effect, and press **OK**.

## Play a musical slideshow

Create a musical slideshow to play simultaneously MP3/WMA music files and JPEG photo files.

### Note

- To create a musical slideshow, you must store the MP3/WMA and JPEG files on the same disc or USB device.

- 1 Play MP3/WMA music.
- 2 Press **BACK** to return to the main menu.
- 3 Navigate to enter a photo folder, and press **OK** to start slideshow play.
  - ↳ Slideshow begins and continues till the end of the photo folder.
  - ↳ Audio continues to play until the end of the disc.
  - To stop the slideshow play, press .
  - To stop the music play, press again.

## Play music

### Control a track

- 1 Play a track.
- 2 Use the remote control to control the play.

Button	Action
	Pause play.
	Start or resume play.
	Stop play.
	Skip to a previous/next track.
	Select an item to play.
	Search fast-backward or fast-forward. Press repeatedly to change the search speed.
<b>MODE/DIM</b>	Select or turn off repeat or shuffle mode.

### Play MP3/WMA music

MP3/WMA is a type of compressed audio file (files with .mp3, .wma extensions).

- 1 Insert a disc or USB device that contains the MP3/WMA music.
- 2 Press , select **[Play Disc]** or **[Browse USB]**, and then press **OK**.  
 ↳ A contents menu is displayed.
- 3 Select a music folder, and press **OK**.
- 4 Select a file to play, and press **OK**.
  - To return to the main menu, press **BACK**.



## Note


- For disc recorded in multiple sessions, only the first session is played.
- For a WMA file that is protected by Digital Rights Management (DRM), it cannot be played on this product.
- This product does not support MP3PRO audio format.
- For any special character that is present in the MP3 track name (ID3) or album name, it might not be displayed correctly on the screen because these characters are not supported.
- Folders/files that exceed the supported limit of this product cannot be displayed or played.

# Adjust settings


## Note

- If the setup option is grayed out, it means the setting cannot be changed at the current state.

## Video setup

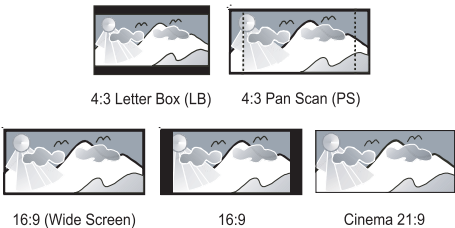
- 1 Press .
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[Video Setup]**, and press **▶**.

Video Setup	TV Display	● 16:9 Widescreen
Audio Setup	HDMI Video	● Auto
Network Setup	HDMI Deep Color	● Auto
EasyLink Setup	Component Video	● 480i/576i
Preference Setup	Picture Settings	● Standard
Advanced Setup		

- 4 Select an option, then press **OK**.
- 5 Select a setting, then press **OK**.
  - To return to the previous menu, press **↶ BACK**.
  - To exit the menu, press .

### [TV Display]

Select a display format:



- **[4:3 Letterbox]** – For 4:3 screen TV: wide-screen display with black bars on the top and bottom of the screen.
- **[4:3 Panscan]** – For 4:3 screen TV: full-height display with the trimmed sides.
- **[16:9 Widescreen]** – For wide-screen TV: display picture at ratio 16:9.
- **[16:9]** – For 16:9 screen TV: display picture at ratio 4:3 for a disc with 4:3 ratio, with black bars on the left and right side of the screen.
- **[21:9 Cinema]** – For wide-screen TV of display ratio 21:9.



#### Note

- If **[4:3 Panscan]** you have selected is not supported by the disc, the screen displays in the **[4:3 Letterbox]** format.
- Help text display is available in all modes, except **[21:9 Cinema]**.
- For optimum viewing with Philips Cinema 21:9 TV, refer to the TV's user manual.


### [HDMI Video]

Select an HDMI video output resolution that is compatible with your TV display capability.

- **[Auto]** - Detect and select the best supported video resolution automatically.
- **[Native]** - Set to original video resolution.
- **[480i/576i], [480p/576p], [720p], [1080i], [1080p], [1080p/24Hz]** - Select a video resolution setting that best is supported by the TV. See the TV manual for details.



#### Note

- If a selected video resolution is not supported with your TV and a blank screen appears, to recover picture display, wait for 10 seconds, or on the remote control press  and then press "731" (numeric buttons).

### [HDMI Deep Color]

This feature is available only when the display device is connected by an HDMI cable, and when it supports deep color feature.

- **[Auto]** - Enjoy vivid images in over a billion colors on Deep Color enabled TV.
- **[On]** - Enjoy vivid images in over a billion colors on Deep Color enabled TV.

Output 12 bit color that reduces the posterization effect.

- **[Off]** - Output standard 8 bit color.

### [Component Video]

Select a component video output resolution that is compatible with the TV display capability.

- **[480i/576i], [480p/576p], [720p], [1080i]**  
- Select a video resolution setting that is best supported by the TV. See the TV manual for details.



#### Note


- If the setting is not compatible with the TV, a blank screen appears. Wait for 10 seconds for auto recovery.
- Copy protected DVDs can only output 480p/576p or 480i/576i resolution.

### [Picture Settings]


Select a predefined set of picture color settings.

- **[Standard]** – Original color setting.
- **[Vivid]** – Vibrant color setting.
- **[Cool]** - Soft color setting.
- **[Action]** – Sharp color setting. It enhances the details in the dark area. Ideal for action movies.
- **[Animation]** – Contrast color setting. Ideal for animated pictures.

# Audio setup

- 1 Press .
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[Audio Setup]**, and press **▶**.

Video Setup	Night Mode	● Off
	Neo 6	● Off
Audio Setup	HDMI Audio	● Auto
Network Setup	Digital Audio	● Auto
EasyLink Setup	PCM Downsampling	● On
Preference Setup		
Advanced Setup		

- 4 Select an option, and press **OK**.
- 5 Select a setting, and press **OK**.
  - To return to the previous menu, press **↩ BACK**.
  - To exit the menu, press .

## [Night Mode]

Increase a soft sound level such as dialogue to make it easier to hear at a low volume, while simultaneously decreasing a loud sound level.

- **[Auto]** - Detect and select a best sound level at a low volume. Applicable to tracks with Dolby TrueHD audio only.
- **[On]** – For quiet viewing at night.
- **[Off]** – For surround sound with a full dynamic range.

### Note

- Applicable only to Dolby encoded DVD-video or BD-video.

## [Neo 6]

A post processing by DTS to generate a surround sound effect from 2 channel audio.

- **[Cinema]** – Enable Neo 6 post processing to the cinema mode.
- **[Music]** - Enable Neo 6 post processing to the music mode.
- **[Off]** – Disable Neo 6 post processing.

## [HDMI Audio]

Select an HDMI audio output when you connect this product and the TV/audio device with an HDMI cable.

- **[Bitstream]** – If the connected HDMI device supports the appropriate HD audio decoder, the original audio format on the disc is sent. Otherwise, LPCM is sent.
- **[Auto]** – Detect and select the best supported audio format automatically.

## [Digital Audio]

Select an audio format for the sound output from the DIGITAL OUT jack (coaxial/optical).

- **[Auto]** - Detect and select the best supported audio format automatically.
- **[PCM]** - The audio device does not support multi-channel format. Audio is downmixed to two-channel sound.
- **[Bitstream]** - Select the original audio to experience Dolby or DTS audio (BD-video special sound effect is disabled).

### Note

- Ensure that the audio format is supported by the disc and the connected audio device (amplifier/receiver).
- When **[Bitstream]** is selected, interactive audio like button sound is muted.

## [PCM Downsampling]

Set the sampling rate for PCM audio output from the DIGITAL OUT jack (coaxial/optical).

- **[On]** - PCM audio is down-sampled at 48kHz.
- **[Off]** - For BD or DVD recorded in LPCM without copyright protection, two-channel audio signals up to 96 kHz are output as LPCM signals with no conversion.

## Network setup

- 1 Press **⬆**.
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[Network Setup]**, and press **▶**.

Video Setup	Network Installation ●
Audio Setup	View Network Settings ●
	View Wireless Settings ●
Network Setup	
EasyLink Setup	
Preference Setup	
Advanced Setup	

- 4 Select an option, then press **OK**.
- 5 Select a setting, then press **OK**.
  - To return to the previous menu, press **↩ BACK**.
  - To exit the menu, press **⬆**.

### [Network Installation]

Install the network connection.

### [View Network Settings]

Display the information for the current network status.

### [View Wireless Settings]

Display the information for the current Wi-Fi status.

If the current network is not set to a wireless connection, this feature is de-activated.

## EasyLink setup

- 1 Press **⬆**.
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[EasyLink Setup]**, and press **▶**.

Video Setup	EasyLink ● On
Audio Setup	One Touch Play ● On
Network Setup	One Touch Standby ● On
	System Audio Control ● On
EasyLink Setup	Audio Input Mapping ●
Preference Setup	
Advanced Setup	

- 4 Select an option, and press **OK**.
- 5 Select a setting, and press **OK**.
  - To return to the previous menu, press **↩ BACK**.
  - To exit the menu, press **⬆**.

### [EasyLink]

This product supports Philips EasyLink which uses the HDMI CEC (Consumer Electronics Control) protocol. You can use one single remote control to control all EasyLink-compliant devices that are connected through HDMI connectors.

- **[On]** - Turn on EasyLink features.
- **[Off]** - Disable EasyLink features.

### [One Touch Play]

When you press **⏻** (standby) to turn on this product, the TV (if the TV supports one-touch play) automatically turns on and switches to the video-in channel. Disc play starts if there is a disc in this product.

- **[On]** - Turn on one-touch play feature.
- **[Off]** - Disable one-touch play feature.

### [One Touch Standby]

When you press and hold **⏻**(standby), all the connected HDMI CEC devices (if the device supports one-touch standby) switch to standby mode simultaneously.

- **[On]** - Turn on one-touch standby feature.
- **[Off]** - Disable one-touch standby feature.

### [System Audio Control]

When you play audio that is routed from the connected devices, this unit switches to the corresponding audio source automatically.

- **[On]** - Turns on System Audio Control. Then proceed to **[Audio Input Mapping]** to scan and map all the connected devices.
- **[Off]** - Disables System Audio Control.

### [Audio Input Mapping]

Updates audio input mapping if there are new devices connected.

#### Note

- You must turn on the HDMI CEC operations on the TV/devices before you can enjoy the EasyLink controls. See the TV/devices manual for details.
- Philips does not guarantee 100% interoperability with all HDMI CEC compliant devices.

## Preference setup

- 1 Press **▲**.
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[Preference Setup]**, and press **►**.

Video Setup	Menu Language	● Auto (ENG)
Audio Setup	Audio	● English (ENG)
	Subtitle	● Off
Network Setup	Disc Menu	● English (ENG)
EasyLink Setup	Parental Control	● Off
Preference Setup	Screen Saver	● On
	Auto Subtitle Shift	● On
Advanced Setup	Change Password	●

- 4 Select an option, then press **OK**.
- 5 Select a setting, then press **OK**.
  - To return to the previous menu, press **↶ BACK**.
  - To exit the menu, press **▲**.

### [Menu Language]

Select an on-screen menu language.

#### Note

- If this product is connected to an HDMI CEC compliant TV using an HDMI cable, it switches automatically to the same menu display language as per your TV setting (if the language set on TV is supported by this product).

### [Audio]

Select an audio language for disc play.

### [Subtitle]

Select a subtitle language for disc play.

### [Disc Menu]

Select a language for disc menu.

#### Note

- If the language you have set is not available on the disc, the disc uses its own default language.
- For some discs, the subtitle/audio language can only be changed from the disc menu.

### [Parental Control]

Restrict access to discs that are unsuitable for children. These types of discs must be recorded with ratings.

To access, enter your last set password or '0000'.

#### Note

- Rated discs above the level you set in **[Parental Control]** require a password to be played.
- The ratings are country-dependent. To allow all discs to play, select '8' for DVD-video and BD-Video.
- Some discs have ratings printed on them but are not recorded with ratings. This function has no effect on such discs.

### [Screen Saver]

Turn on or off the screen saver mode. It helps to protect the TV screen from being damaged due to over exposure to static image for being too long.

- **[On]** - Set the screen saver active after 10 minutes of inactivity (for example, in the pause or stop mode)
- **[Off]** - Disable screen saver mode.

### [Auto Subtitle Shift]

Turn on or off the automatic subtitle shift.

- **[On]** - The subtitle position on the TV screen is automatically adjusted.
- **[Off]** - Disable the automatic subtitle shift.



#### Note

- This feature only works when **[TV Display]** is set to **[21:9 Cinema]**.

### [Change Password]

Set or change the password.

- 1) Press the Numeric buttons to enter the password or your last set password. If you forget the password, enter '0000', then press **OK**.
- 2) Enter the new password.
- 3) Enter the same password again.
- 4) Move to **[Confirm]** in the menu and press **OK**.

### [Display Panel]

Select a brightness level of the front panel display.

- **[Normal]** - Normal brightness.
- **[Dim]** - To dim display.

### [VCD PBC]

Turn on or off the content menu of VCDs/SVCDs with PBC (playback control) feature.

- **[On]** - Display the index menu when you load a disc for play.
- **[Off]** - Skip the menu and start play from the first title.

## Advanced setup

- 1 Press **▲**.
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[Advanced Setup]**, and press **▶**.

Video Setup	BD Live Security	● Off
Audio Setup	Software Update	●
Network Setup	Clear Memory	●
EasyLink Setup	Local Storage	●
Preference Setup	DivX® VOD Code	●
	Version Info.	●
	Restore Default Settings	●
Advanced Setup		

- 4 Select an option, and press **OK**.

- 5 Select a setting, and press **OK**.
  - To return to the previous menu, press **↶ BACK**.
  - To exit the menu, press **▲**.

### [BD-Live Security]

You can restrict internet access for BD-Live bonus contents which are available to certain Blu-ray discs.

- **[On]** - Internet access is prohibited for all BD-Live contents.
- **[Off]** - Internet access is permitted for all BD-Live contents.

### [Software Update]

Update the software of this product (if a latest version is available on Philips website) to enhance the performance of this product.

- **[USB]** - Update software from the USB device which is connected to this product.
- **[Network]** - Update software from the Internet.



#### Note

- For detailed software updating, see "Additional information" > "Update software".

### [Clear Memory]

If the internal memory of this product is not enough to download BD-Live bonus contents for a BD disc, reformat the local storage to clear all the contents.

## Note

- When you clear the local storage, previous download of BD-Live bonus contents is no longer available.

## Local Storage

### [Local Storage]

Save the downloaded BD-Live bonus contents for a BD disc to the local memory of the product or an external USB storage device.

**[Internal]** - Save to the local memory of the product.

**[External]** - Save to an external USB storage device connected to the product.

### [DivX® VOD Code]

Obtain the DivX® registration code or the deregistration code.

## Tip

- Use the DivX registration code of this product when you rent or purchase video from [www.divx.com/vod](http://www.divx.com/vod). The DivX videos rented or purchased through the DivX® VOD (Video On Demand) service can be played only on the device to which it is registered.

### [Version Info.]

Display the software version and the MAC address of this player.

## Tip

- This information is needed for you to check if a latest software version is available at the Philips website so that you can download and install on this player.

### [Restore Default Settings]

Reset all the settings of this player to the factory settings, except for **[Parental Control]** setting.

# 7 Tune to FM radio stations

- 1 Ensure that you have connected and fully extended the supplied FM antenna.
- 2 Press **RADIO**.
- 3 Press **◀▶▶** or **▶▶**.
- 4 When the frequency indication starts to change, release the button.
  - ↳ The FM tuner tunes to a station with strong reception automatically.
- 5 Repeat steps 3-4 to tune to more stations.

### To tune to a weak station:

Press **▲▼** repeatedly until you find optimal reception.

## Program radio stations automatically

## Note

- You can program a maximum of 40 preset radio stations.

- 1 Press **◀▶▶** to select a preset number to start programming.
- 2 Press and hold **PROGRAM/CLOCK** for 2 seconds to activate automatic programming.
  - ↳ **[AUTO]** (auto) is displayed briefly.
  - ↳ All available stations are programmed in the order of waveband reception strength.
  - ↳ The first programmed radio station is broadcast automatically.

## Program radio stations manually



### Note

- You can program a maximum of 40 preset radio stations.

- 1 Tune to a radio station.
- 2 Press **PROGRAM/CLOCK** to activate programming.
- 3 Press **◀▶** to allocate a number from 1 to 40 to this radio station, then press **PROGRAM/CLOCK** to confirm.  
↳ The preset number and the frequency of the preset station are displayed.
- 4 Repeat the above steps to program other stations.



### Note

- To overwrite a programmed station, store another station in its place.

## Tune to a preset radio station

- 1 Press **◀▶** to select a preset number that you want.

## 8 Adjust volume level and sound effect

### Adjust volume level

- 1 During play, press **VOL +/-** to increase/decrease the volume level.

### Select a sound effect



### Note

- You cannot use different sound effects at the same time.

### Adjust bass level

- 1 During play, press **BASS** to enter bass adjustment.
- 2 Press **VOL +/-** to adjust the bass level.

### Adjust treble level

- 1 During play, press **TREBLE** to enter treble adjustment.
- 2 Press **VOL +/-** to adjust the treble level.

### Select automatic loudness control

The loudness feature enables the system to increase the treble and bass sound effect at low volume automatically (the higher the volume, the lower the treble and bass increase).

- 1 During play, press **LOUDNESS** to turn on/off automatic loudness control.




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## Mute sound

- 1 During play, press  to mute/resume sound.

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## Listen through headphone

- 1 Plug a headphone into the  socket on the unit.

# 9 Additional Information

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## Adjust brightness of display panel

- 1 In standby mode, press **MODE/DIM** repeatedly to select different levels of brightness for the display panel.

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## Set the alarm timer


- 1 Ensure that you have set the clock correctly.
- 2 In standby mode, press and hold **SLEEP/TIMER**.
  - ↳ The hour digits are displayed and begin to blink.
- 3 Press **+ VOL -** to set the hour; then press **SLEEP/TIMER** again.
  - ↳ The minute digits are displayed and begin to blink.
- 4 Press **+ VOL -** to set the minute.
  - ↳ An alarm source icon (disc, tuner or USB) begins to blink.
- 5 Press **+ VOL -** to select an alarm source.
- 6 Press **SLEEP/TIMER** to confirm.
  - ↳ **[OFF]** (off) begins to blink.
- 7 To activate the wake-up timer, press **+ VOL -** to select **[ON]** (on) while **[OFF]** (off) is blinking.
  - ↳ A clock icon appears on the display.
  - ↳ To deactivate the alarm timer, select **[OFF]** (off) at step 6.

## Set the sleep timer

- 1 When the unit is turned on, press **SLEEP/TIMER** repeatedly to select a set period of time (in minutes).  
 ↳ The unit turns off automatically after the set period of time.

## Update software

For software updates to enhance performance, check the current software version of this product to compare with the latest software (if available) at the Philips website.


- 1 Press .
- 2 Select **[Setup]**, and press **OK**.
- 3 Select **[Advanced Setup]** > **[Version Info.]**, and press **OK**.

### Update software via network

- 1 Set up the internet connection (see "Get started" > "Set up a network").
- 2 In the Home menu, select **[Setup]** > **[Advanced Setup]** > **[Software Update]** > **[Network]**.  
 ↳ You are prompted to start the upgrading process if upgrade media is detected.
- 3 Follow the instructions on the TV screen to confirm update operation.  
 ↳ Once software update is complete, this product restarts automatically.

### Update software via USB

- 1 Go to [www.philips.com/support](http://www.philips.com/support) to check if the latest software version is available for this product.
- 2 Download the software into a USB flash drive:

- ① Un-zip the download, and make sure that the un-zipped folder is named "UPG".
- ② Put the "UPG" folder in the root directory.
- 3 Insert the USB flash drive to the  (USB) jack on the front panel of this product.
- 4 In the Home menu, select **[Setup]** > **[Advanced Setup]** > **[Software Update]** > **[USB]**.
- 5 Follow the instructions on the TV screen to confirm update operation.  
 ↳ Once software update is complete, this product restarts automatically.



#### Note

- Do not turn off the power or remove the USB flash drive when software updating is in progress to prevent possible damage of this product.

## Care



#### Caution

- Never use solvents such as benzene, thinner, cleaners available commercially, or anti-static sprays intended for discs.

#### Clean discs

Wipe the disc with a micro fibre cleaning cloth from the centre to the edge in a straight line movement.

# Specifications



## Note

- Specifications are subject to change without notice

## Video

- Laser type: Semiconductor
- Disc diameter: 12cm/8cm
- Video decoding: MPEG-1 / MPEG-2 / Divx
- Video DAC: 12Bits
- Signal system: PAL / NTSC
- Video format: 4:3 / 16:9
- Component video output: 480i/576i, 480p/576p, 720p, 1080i
- Video S/N: > 48dB
- HDMI output: 480p, 576p, 720p, 1080i, 1080p, 1080p24
- Audio DAC: 24Bits / 192kHz
- Total Harmonic distortion: < 0.1% (1 kHz)
- Frequency response: 4Hz - 20kHz (44.1kHz)  
4Hz - 22kHz (48kHz)  
4Hz - 24kHz (96kHz)
- S/N ratio: > 65dB

## Tuner (FM)

- Tuning range: 87.5 - 108MHz
- Tuning grid: 50KHz
  - Mono, 26dB S/N ratio: <22 dBf,
  - Stereo, 46dB S/N ratio: >43 dBf
- Search selectivity: >28dBf
- Total harmonic distortion: <1%
- Signal to noise ratio: >55dB

## USB

- Compatibility: Hi-Speed USB (2.0)
- Class support: UMS (USB Mass Storage Class)

## Main unit

- Power supply rating: 220V~, 50 Hz
- Power consumption: 50W
- Power consumption in standby mode: < 0.5 W

- Dimensions (w x h x d): 277 x 98 x 247 (mm)
- Net weight: 2.5 kg

## Speakers

- Speaker impedance: 8ohm
- Speaker driver: 5"woofer+1"tweeter
- Sensitivity: >80dB/m/W  $\pm$  4dB/m/W
- Dimensions (w x h x d): 160 x 255 x 2240 (mm)
- Net weight: 3.5 kg

## Accessories supplied

- Remote control and batteries
- Audio/Video cables
- Power cable
- FM wire antenna
- Quick start guide
- User manual

## Optional accessory

- A wireless Philips USB adapter(named WUB1110, sold separately)
  - Multimedia connections: Wi-Fi 802.11b/g/n
  - Connectivity: Rear connection (USB)
  - Ambient temperature: 5 deg C to 40 deg C.
  - Dongle dimensions (W x H x D): 28.4 x 82 x 13.4 mm

## Laser Specification

- Laser Type:
  - BD Laser Diode: InGaN/AlGaIn
  - DVD Laser Diode: InGaAlP
  - CD Laser Diode: A IGaAs
- Wave length:
  - BD: 405 +5 nm/-5 nm
  - DVD: 650 +5nm/-10nm
  - CD: 790 +10nm/-20nm
- Output power:
  - BD: Max. ratings: 20mW
  - DVD: Max. ratings: 7mW
  - CD: Max. ratings: 7mW

## Laser Specification

- Laser Type:
  - BD Laser Diode: InGaN/AlGaIn
  - DVD Laser Diode: InGaAlP
  - CD Laser Diode: A IGaAs

- Wave length:
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  - CD: 790 +10nm/-20nm
- Output power:
  - BD: Max. ratings: 20mW
  - DVD: Max. ratings: 7mW
  - CD: Max. ratings: 7mW

# 10 Troubleshooting



## Warning

- Risk of electric shock. Never remove the casing of the product.

To keep the warranty valid, never try to repair the product yourself.

If you have problems using this product, check the following points before you request service. If you still have a problem, register your product and get support at [www.philips.com/welcome](http://www.philips.com/welcome).

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## Main unit

### No reaction to the remote control.

- Connect this product to the power outlet.
- Point the remote control at the IR sensor located on the front panel of this product.
- Insert the batteries correctly.
- Insert new batteries in the remote control.

### Timer does not work

- Set the clock correctly.
- Switch on the timer.

### Clock/timer setting erased

- Power has been interrupted or the power cord has been disconnected.
- Reset the clock/timer.

---


## Picture

### No picture.

- See TV manual for correct video input selection. Change the TV channel until you see the Philips screen.

### No picture on HDMI connection.

- If this product is connected to an unauthorized display device with an HDMI cable, the audio/video signal may not be output.
- Check if the HDMI cable is faulty. Replace with a new HDMI cable.

- On the remote control, press  and then press "731" (numeric buttons) to recover picture display.

#### **No high-definition video signal on the TV.**

- Make sure that the disc contains high-definition video.
- Make sure that the TV supports high-definition video.

---

## **Sound**

#### **No sound or poor sound**

- Adjust the volume.
- Disconnect the headphones.
- Check that the speakers are connected correctly.
- Check if the stripped speaker wires are clamped.

#### **No sound on HDMI connection.**

- You may not hear any sound from the HDMI output if the connected device is non-HDCP compliant or only DVI-compatible.

#### **No secondary audio output for Picture-in-Picture feature.**

- When **[Bitstream]** under the **[HDMI Audio]** or **[Digital Audio]** menu is selected, interactive sound like secondary sound for Picture-in-Picture feature is muted. Deselect **[Bitstream]**.

---

## **Play**

#### **Disc cannot be played.**

- Ensure that the disc is correctly loaded.
- Ensure that this product supports the disc (see "Your Blu-ray Micro System" > "Playable media").
- Ensure that this product supports the region code of the DVD or BD.
- For DVD±RW or DVD±R, ensure that the disc is finalized.
- Clean the disc.

#### **Data files (JPEG, MP3, WMA) cannot be played or read.**

- Ensure that the data file was recorded in the UDF, ISO9660 or JOLIET format.
- Ensure that the disc does not contain more than 9,999 files for DVD, and 999 files for CD.
- Ensure that the JPEG file extension is .jpg, .JPG, .jpeg or .JPEG.
- Ensure that the MP3/WMA file extension is .mp3 or .MP3, and .wma or .WMA for windows Media™ Audio.

#### **DivX video files cannot be played.**

- Ensure that the DivX video file is complete.
- Ensure that the file name extension is correct.

#### **The contents of the USB flash drive cannot be read.**

- The USB flash drive format is not compatible with this product.
- The maximum size of memory supported is 160GB.

#### **'No entry' or 'x' sign appears on the TV.**

- The operation is not possible.

#### **EasyLink feature does not work.**

- Ensure that this product is connected to the Philips brand EasyLink TV and the **[EasyLink]** in the menu is set to **[On]**.

#### **Unable to access BD-Live feature.**

- Check the network connection or ensure that the network has been set up.
- Clear local storage, internal memory (if any) or USB.
- Ensure that the BD disc supports BD Live feature.

#### **Poor radio reception**

- Increase the distance between the apparatus and your TV or VCR.
- Fully extend the FM antenna.
- Connect an outdoor FM antenna instead.

## Network

### Wireless network is not found or distorted.

- Microwave ovens, DECT phones or other wireless devices in your neighborhood might disturb the wireless network.
- Make sure that the firewalls in your network allow access to the wireless connection of this product.
- If the wireless network does not work properly in your home, try the wired network connection (see "Get started" > "Set up a network").

# 11 Glossary

## A

### Aspect ratio

Aspect ratio refers to the width to height ratio of TV screens. The ratio of a standard TV is 4:3, while the ratio of a high-definition or wide TV is 16:9. The letter box allows you to enjoy a picture with a wider perspective on a standard 4:3 screen.

### AVCHD

AVCHD is a format (standard) for high definition video cameras that can be used to record and play high-resolution HD images.

## B

### Blu-ray Disc (BD)

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

### BONUSVIEW

BonusView, also known as "Profile 1.1". In addition to basic playback and interactive features, BonusView players introduced after 31st October, 2007 enables users to enjoy 'Picture-in-Picture' (PiP) and secondary audio features (useful when playing games that use additional audio stream while the movie is playing) on compatible BonusView discs.

## D

### Digital Audio

Digital Audio is a sound signal that has been converted into numerical values. Digital sound can be transmitted through multiple channels. Analogue sound can only be transmitted through two channels.

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## **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 your device setup menu. Go to [vod.divx.com](http://vod.divx.com) with this code to complete the registration process and learn more about DivX video.

## **Dolby Digital**

A surround sound system developed by Dolby Laboratories that contains up to six channels of digital audio (front left and right, surround left and right, center and subwoofer.)

## **DTS**

Digital Theatre Systems. A surround sound system for providing 5.1 channels of discrete digital audio in consumer electronics products and software content. It is not developed by Dolby Digital.

---

# **H**

## **HDCP**

High-bandwidth Digital Content Protection. This is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorized copyright.)

## **HDMI**

High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers high quality picture and sound quality, completely free from noise. HDMI is fully backward-compatible with DVI.

As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High-bandwidth Digital Content Protection) will result in no Video or Audio output.

---

# **J**

## **JPEG**

A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio. Files are recognized by their file extension 'jpg' or 'jpeg.'

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# **L**

## **LAN (Local Area Network)**

A group of linked devices in a company, school or home. Indicates the boundaries of a particular network.

## **Local storage**

This storage area is used as destination for storing additional contents from BD-Live enabled BD-Video.

---

# **M**

## **MP3**

A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

---

# **P**

## **PBC**

Playback Control. A system where you navigate through a Video CD/Super VCD with on-screen menus that are recorded onto the disc. You can enjoy interactive playback and search.

## **PCM**

Pulse Code Modulation. A digital audio encoding system.

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## R

### **Region code**

A system that allows discs to be played only in the region designated. This unit only plays discs that have compatible region codes. You can find the region code of your unit on the product label. Some discs are compatible with more than one region (or ALL regions.)

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## W

### **WMA**

Windows Media™ Audio. Refers to an audio compression technology developed by Microsoft Corporation. WMA data can be encoded with Windows Media player version 9 or Windows Media player for Windows XP. Files are recognized by their file extension '.wma.'



