Register your product and get support at

www.philips.com/welcome

PHILIPS

Contents

1 Important

Safety

a Read these instructions.

b Keep these instructions.

c Heed all warnings.

d Follow all instructions.

e Do not use this apparatus near water.

f Clean only with dry cloth.

g Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

h Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

i Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

j Only use attachments/accessories specified by the manufacturer.

k 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.

l Unplug this apparatus during lightning storms or when unused for long periods of time.

m 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.

n Battery usage CAUTION – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:
  - Install all batteries correctly, + and - as marked on the unit.
  - Do not mix batteries (old and new or carbon and alkaline, etc.).
  - Remove batteries when the unit is not used for a long time.

o Apparatus shall not be exposed to dripping or splashing.

p Do not place any sources of danger on the apparatus (e.g. liquid filled objects, lighted candles).

q This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

r Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Know these safety symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS   NE PAS OUVRIR

RISQUE DE CHOC ELECTRIQUE

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

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

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

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

⚠ **Warning**

- Never remove the casing of this apparatus.
- Never lubricate any part of this apparatus.
- Never place this apparatus on other electrical equipment.
- Keep this apparatus away from direct sunlight, naked flames or heat.
- Never look into the laser beam inside this apparatus.
- Ensure that you always have easy access to the power cord, plug or adaptor to disconnect this apparatus from the power.

❗ **Caution**

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

Notice

Any changes or modifications made to this device that are not expressly approved by Philips Consumer Lifestyle may void the user's authority to operate the equipment.

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

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. Reserve engineering or disassembly is prohibited.

Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), cardboard tray (buffer) and polyethylene (bags, protective foam sheet.)

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

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.

When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste.

Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.

Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

Trademark notice

DVD VIDEO

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

DOLBY DIGITAL

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

This apparatus includes this label:

CLASS 1
LASER PRODUCT
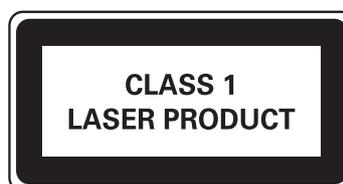
Note

• The type plate is located on the bottom of the apparatus.

2 Your Mini Hi-Fi System

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

Introduction

With this unit, you can enjoy audio from discs, tapes, USB devices, external devices, or radio stations.

To enrich sound, this unit offers you these sound effects:

- Digital Sound Control (DSC)
- Dynamic Bass Boost (DBB)

The unit supports the following media formats:

DVD region code	Countries
ALL 3	Southeast Asia, South Korea, Taiwan, Hong Kong, Macau

What's in the box

Check and identify the contents of your package:

- Main unit x 1
- Speaker box x 2
- Video cable x 1
- MP3 link cable x 1
- Remote control (without batteries)
- Quick start guide
- User manual

Overview of the main unit
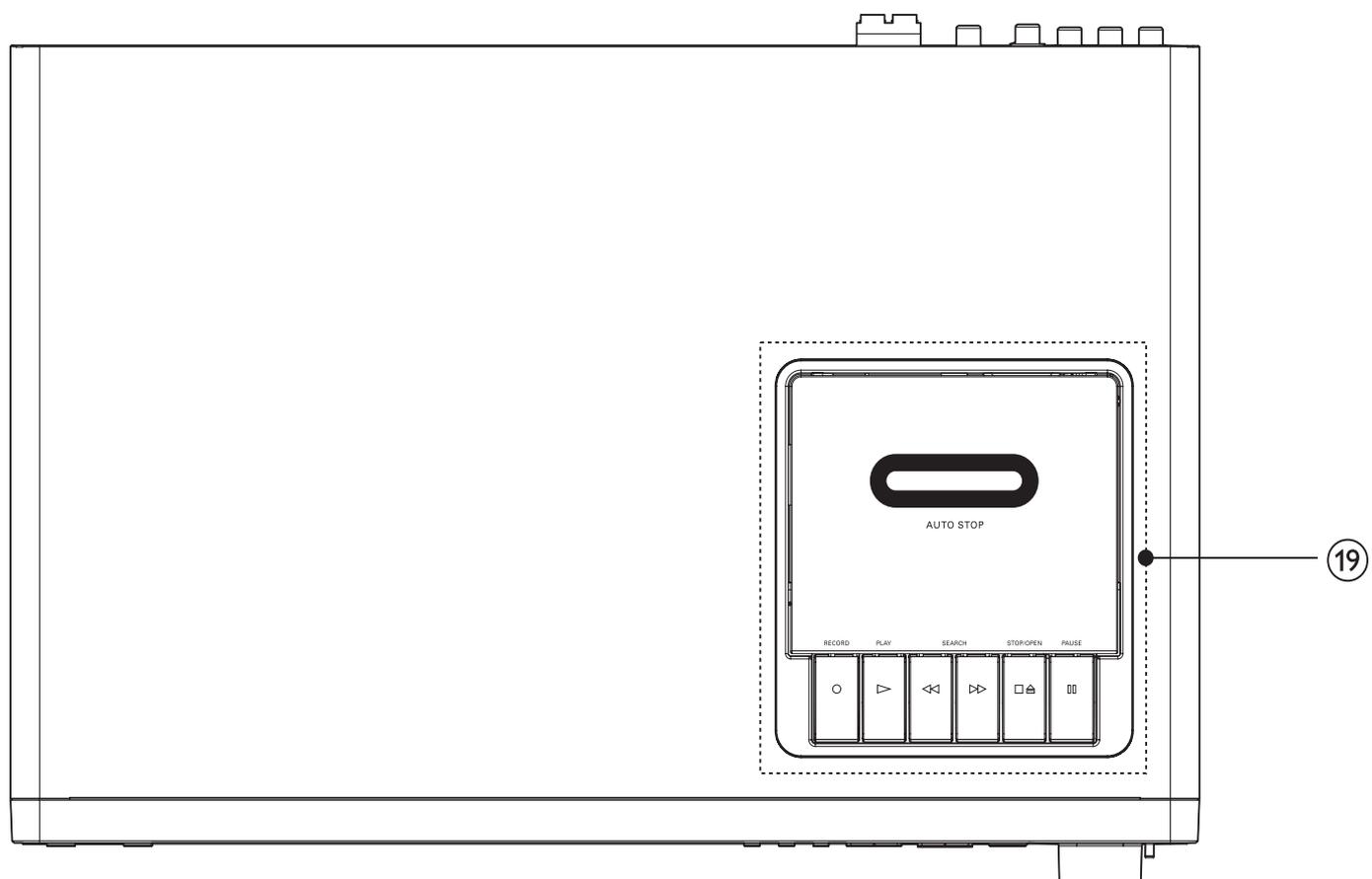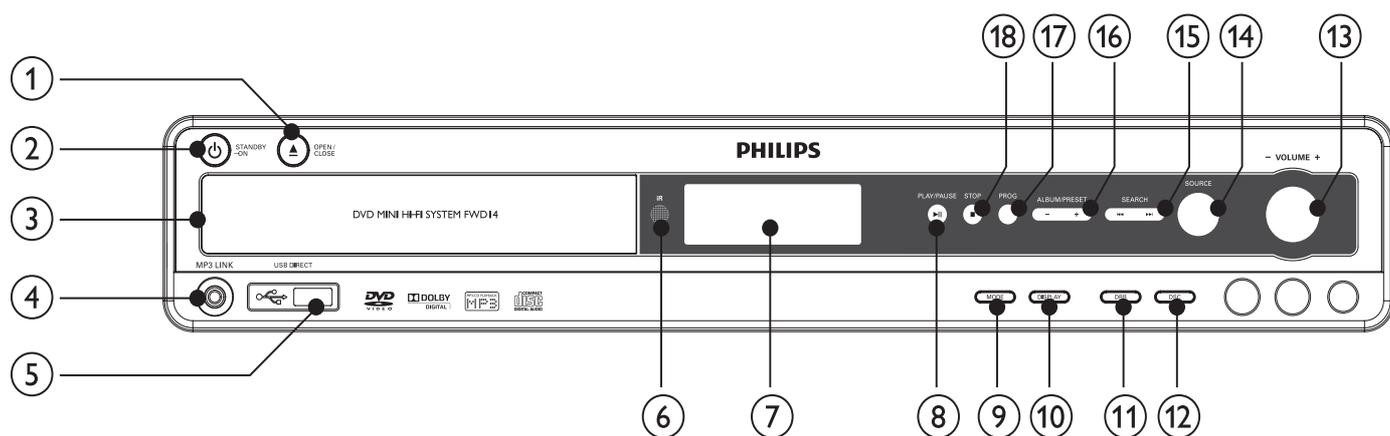
a **OPEN/CLOSE** ▲
- Open or close the disc tray.

b **STANDBY-ON**⏻
- Switch the unit on/off.

c **Disc tray**

d **MP3 LINK**
- Connect an external audio source.

e **USB DIRECT**
- Connect an external USB mass storage device.

f **IR**
- Infrared sensor for remote control.

g **Display panel**
- Display the current status of the system.

(8) **PLAY/PAUSE ▶ II**
- Start or pause display.

(9) **MODE**
- For SVCD/VCD (PBC off)/CD/MP3/ WMA, select a preset repeat mode.

(10) **DISPLAY**
- Display the disc information on the TV screen.

(11) **DBB**
- Enable or disable dynamic bass enhancement.

(12) **DSC**
- Select a preset sound equalizer setting.

(13) **VOLUME**
- Adjust volume.

(14) **SOURCE**
- Select a source from DISC, USB, TUNER, TAPE, AUX, and MP3 LINK.

(15) **SEARCH ◄/►**
- In DISC mode, skip to the previous/ next chapter/track.
- In TUNER mode, search for radio stations manually.

(16) **ALBUM/PRESET -/+**
- For MP3/WMA, select albums.
- In TUNER mode, select a preset radio station.

(17) **PROG**
- Program preset radio stations.

(18) **STOP ■**
- Stop play or erase a program.

(19) **Tape recorder**

II	Pause the play or recording.
■▲	Stop the tape. Open the cassette compartment.
◄◄ / ►►	Fast wind/rewind tape.
▶	Start the play.
●	Start the recording.

Overview of the remote control
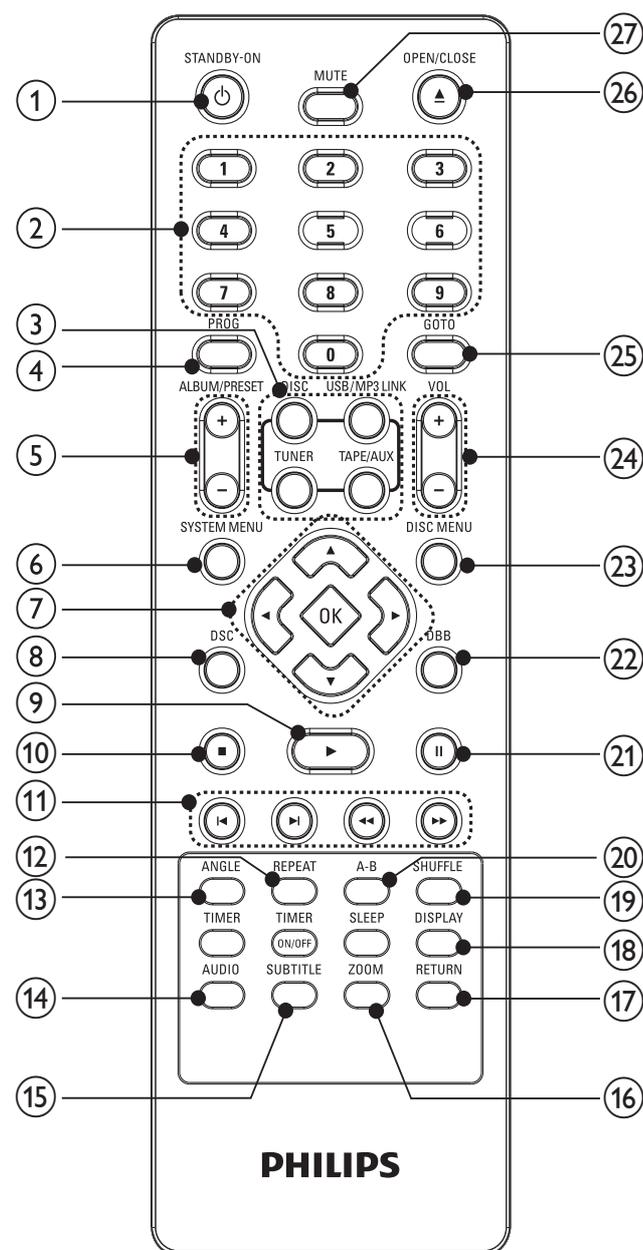
(1) **STANDBY-ON ⏻**
- Switch the unit on/off.

(2) **Numeric keypad**
- Enter a track/title/file number or exact point of the disc.
- Enter password.

(3) **Source**
- Select a source from DISC, USB, TUNER, TAPE, AUX, and MP3 LINK.

English

d PROG
- For DVD/VCD/CD/MP3-CD, enter the program menu in STOP or prepare stop position.
- In TUNER mode, program preset radio stations.

e ALBUM/PRESET -/+
- For MP3/WMA, select albums.
- In TUNER mode, select a preset radio station.

f SYSTEM MENU (DISC/USB mode only)
- Enter or exit the system menu bar.

g ▲/▼/◄/►
- Select movement direction in disc content menu/system menu bar.
- In JPEG disc mode, rotate the picture for viewing.
- Move an enlarged picture up/down/left/right.
  OK
- Exit or confirm the selection.

h DSC
- Select a preset sound equalizer setting.

i ►
- In DISC/USB mode, start the play.

j ■
- In DISC/USB mode, stop the play or clear a program.

k ◄◄/►►
- In DISC mode, skip to the previous/next chapter/title/track.
- In TUNER mode, select a preset radio station.
  ◄◄ / ►►
- In DISC mode, press and hold to fast reverse/forward the disc.

l REPEAT
- Play tracks repeatedly.

m ANGLE
- Select a DVD camera angle.

n AUDIO
- For DVD/SVCD, seleect an audio language.
- For VCD, select an audio channel.

o SUBTITLE
- For DVD, select a preset subtitle.

p ZOOM
- Zoom in/out a picture.

q RETURN
- For DVD, return to the previous menu.
- For VCD 2.0, return to the disc menu.

r DISPLAY
- Display the disc information.

s SHUFFLE
- Play tracks randomly.

t A-B
- Repeat a specific section within a chapter/track.

u ▌▌
- In DISC/USB mode, interrupt play.

v DBB
- Enable or disable the dynamic bass enhancement.

w DISC MENU
- For DVD: Enter or exit the disc content menu, or return to TITLE.
- For VCD: Enter or exit the disc content menu, or select PBC ON or PBC OFF.
- For SVCD: Select PBC ON or PBC OFF.

x VOL +/-
- Adjust volume.

y GOTO
- Select a time to start play.

z OPEN/CLOSE ▲
- Open or close the disc tray.

{ MUTE
- Mute or restore audio output.

3 Connect

Make the following connections to use this product.

Basic connections:
- Video
- Audio

Optional connections:
- Route audio to other devices:
  - Multi channel receiver
  - Digital amplifier/receiver
  - Analogue stereo system
- USB flash drive
- External audio player

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 video cables

Connect this product to TV to view disc play. Select the best video connection that TV can support.
- **Option 1:** Connect to the component video jacks (for a standard TV or Progressive Scan TV).
- **Option 2:** Connect to the video (CVBS) jack (for a standard TV).

Note

- You must connect this product directly to a TV.

Option 1: Connect to the component video jacks
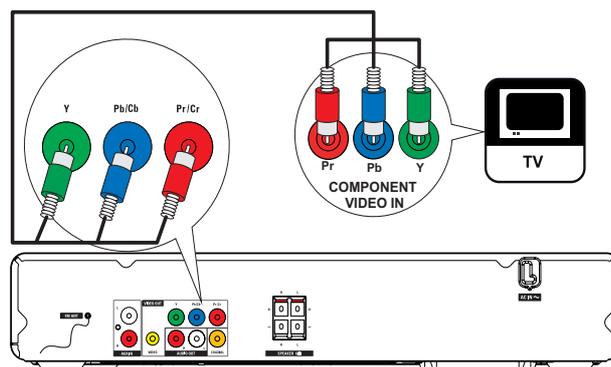
1 Connect the component video cables (not supplied) to:
- the **Y Pb/Cb Pr/Cr** jacks on this product.
- the COMPONENT VIDEO input jacks on the TV.

Tip

- The component video input jacks on the TV may be labeled as Y Pb/Cb Pr/Cr or YUV.
- This type of connection provides good picture quality.

Option 2: Connect to the video (CVBS) jack
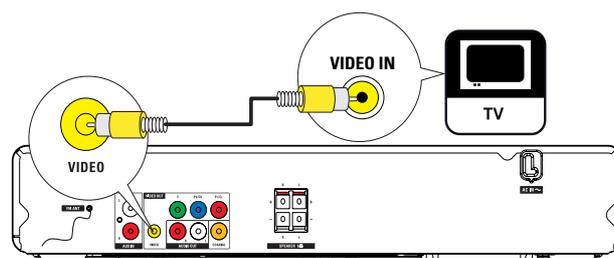
1 Connect a composite video cable to:
- the **VIDEO** jack on this product.
- the video input jack on the TV.

Tip

- The video input jack on the TV may be labeled as A/V IN, VIDEO IN, COMPOSITE or BASEBAND.
- This type of connection provides standard picture quality.

Connect audio cables
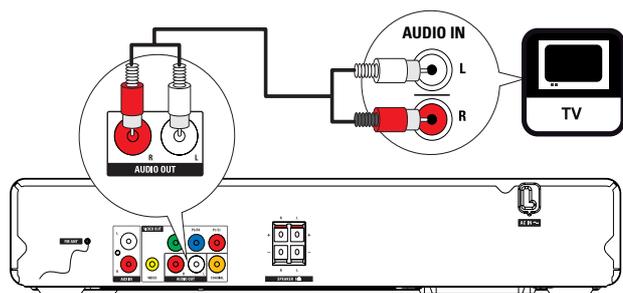
Connect the audio from this product to the TV to allow sound output through the TV.

1   Connect the audio cables (not supplied) to:
   - the **AUDIO OUT L/R** jacks on this product.
   - the audio input jacks on the TV.

Route audio to other devices

Route the audio from this product to other devices to enhance audio play.

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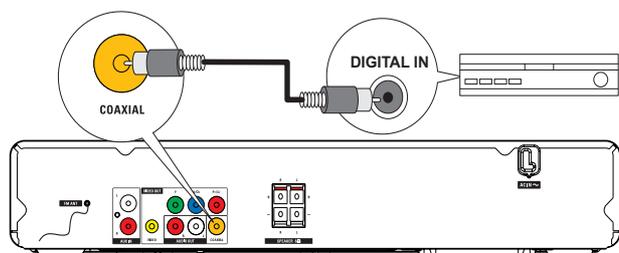
1   Connect a coaxial cable (not supplied) to:
   - the **COAXIAL** jack on this product.
   - the COAXIAL/DIGITAL input jack on the device.

Connect analogue stereo system
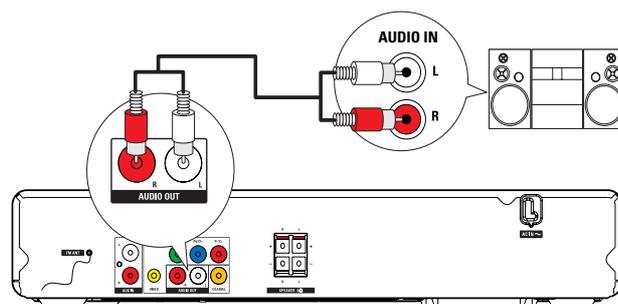
1   Connect the audio cables (not supplied) to:
   - the **AUDIO OUT L/R** jacks on this product.
   - the audio input jacks on the device.

Connect a USB flash drive
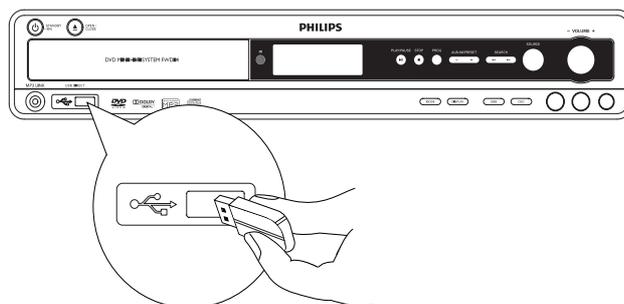
1   Connect a USB flash drive to the ↭ jack on this product.

Note

- This product can only play/view MP3, WMA or JPEG files that are stored on a USB flash drive.
- Press the **SOURCE** (or **USB/MP3 LINK**) button to access the content and play the files.

Connect an external device

Connect the audio from an external device to this product to allow sound output through the product.

Connect through MP3 LINK jack
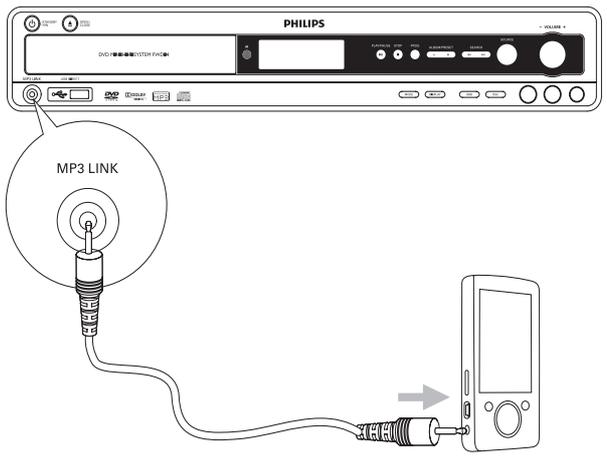
1 Connect the MP3 link cable (supplied) to:
   - the **MP3 LINK** jack on the main unit.
   - the headphone jack or **AUDIO OUT** jacks on an external device (such as MP3 player or CD player).

Note

- Press **SOURCE** (or **USB/MP3 LINK**) to select MP3 LINK.

Connect through AUX IN jack
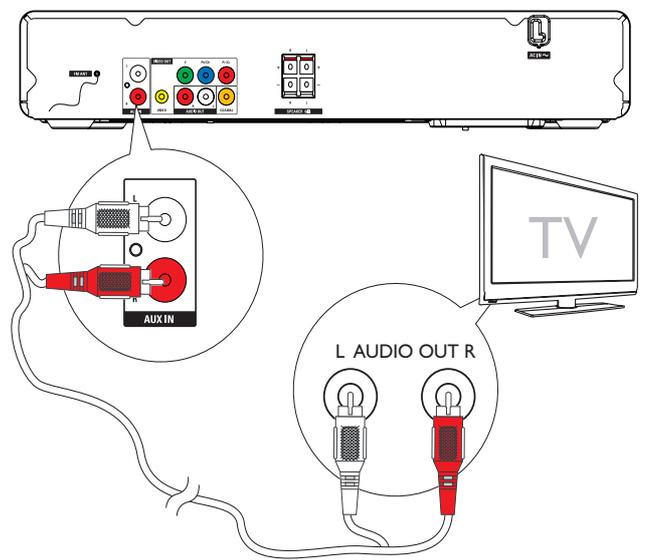
1 Connect the **AUX IN** jacks on the main unit to the **AUDIO OUT** jacks on an external device (such as a VCR, Laser Disc Player or cassette desk).

Note

- Press **SOURCE** (or **TAPE/AUX**) to select AUX.

Connect speakers

Note

- For optimal sound, use the supplied speakers only.
- Connect only speakers with impedance that is the same or higher than the supplied speakers. Refer to the Specifications section of this manual.
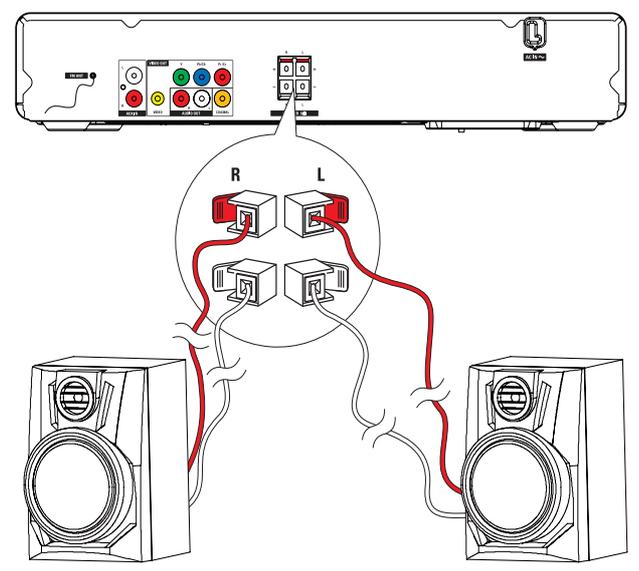
Note

- Ensure that the colors of the speaker wires and terminals are matched.

1 Hold down the socket flap.
2 Insert the stripped part of the wire completely.
   - Insert the right speaker wires to "**R**", left speaker wires to "**L**".
   - Insert the coloured (marked) wires to "**+**", black (unmarked) wires to "**-**".

3 Release the socket flap.

① ② ③
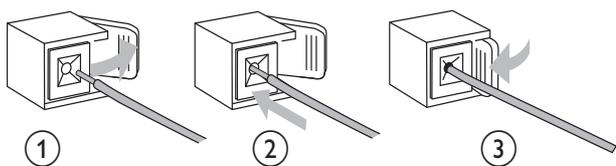
Connect power

> ⚠ **Caution**
>
> - Risk of product damage! Ensure that the power supply voltage corresponds to the voltage printed on the back or the underside of the unit.
> - Risk of electric shock! When you unplug the AC power cord, always pull the plug from the socket. Never pull the cord.
> - Before connecting the AC power cord, ensure you have completed all other connections.

1 Connect the power cord to the wall outlet.
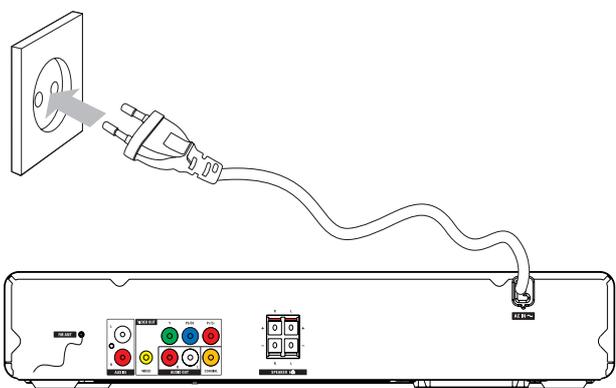
4 Get started

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

Model No. _____

Serial No. _____

Prepare the remote control
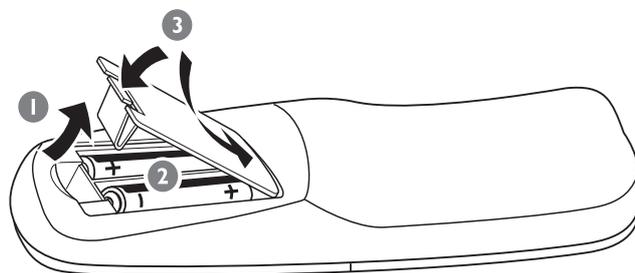
1 Open the battery compartment.

2 Insert 2 AAA batteries (not supplied) with correct polarity (+/-) as indicated.

3 Close the battery compartment.

> ⚠ **Caution**
>
> - Risk of explosion! Keep batteries away from heat, sunshine or fire. Never discard batteries in fire.
> - Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
> - Do not mix batteries (old and new or carbon and alkaline, etc.).
> - Batteries contain chemical substances, so they should be disposed of properly.

Turn on

1 Press **STANDBY-ON**⏻.
   » The unit switches to the last selected source.

Switch to standby

1 Press **STANDBY-ON**⏻ to switch the unit to standby mode.
   » The backlight on the display panel is reduced.

Power-saving automatic standby
The system switches to Standby mode automatically if you do not press any button within 15 minutes after a disc stops playing.

Find the correct viewing channel

1 Press **STANDBY-ON**⏻ to turn on this product.

2 Press **SOURCE** repeatedly (or **DISC**) to select DISC mode.

3 Turn on the TV and switch to the correct video-in channel (refer to the TV user manual on how to select the correct channel).

Select the correct TV system

1 In DISC mode, press **SYSTEM MENU**.
   » [SYSTEM SETUP] menu is displayed.

2 Press ▲▼ to select **[TV SYSTEM]**, then press ▶.

3 Press ▲▼ to select an option, then press [OK].
   • [NTSC]
     Select this if the connected TV set is NTSC system.
   • [PAL]
     Select this if the connected TV set is PAL system.
   • [AUTO]
     Select this if the connected TV set is compatible with both NTSC and PAL (multi system).
   • To exit the menu, press **SYSTEM MENU**.

Select the preferred display language

If the selected language is not available, the language set by default is used instead.
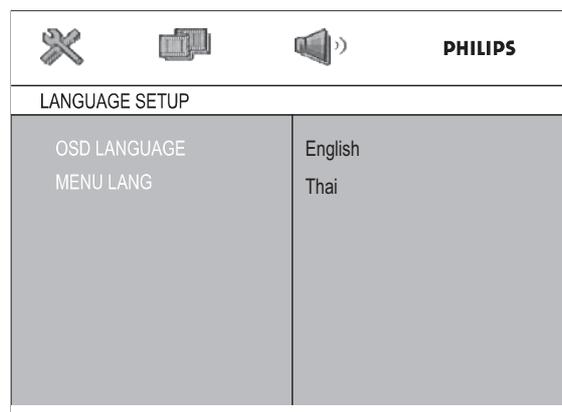
   • The language options may vary from different regions.

1 In DISC mode, press **SYSTEM MENU**.

2 Press ▶ to select **[LANGUAGE SETUP]**.

3 Press ▼ to select **[OSD LANGUAGE]** (or **[MENU LANG]**), then press ▶.

4 Press ▲▼ to select a language and then press **[OK]**.

Turn on progressive scan

> **Note**
>
> - To use the progressive scan feature, you must connect a progressive scan TV with the component video jacks (see "Connect" > "Connect video cables" > "Option 1: Connect to the component video jacks" for details).

1 Turn on the TV to the correct viewing channel for this product.

2 In DISC mode, press **SYSTEM MENU**.
   » **[SYSTEM SETUP]** menu is displayed.

3 Press ▲▼ to select **[SYSTEM SETUP]**.

4 Select **[VIDEO]** > **[P-SCAN YPBPR]**, and then press **OK** to confirm.

> **Note**
>
> - If a blank/distorted screen is displayed, wait for 15 seconds for the auto recovery.

5 Press **SYSTEM MENU** to exit the menu.

6 You can now turn on the progressive scan mode on the TV (see the TV user manual).

> **Note**
>
> - During play, when the progressive scan mode is on for both this product and the TV, distorted picture may display. In this case, turn off the progressive scan feature on both this product and the TV.

5 Play

Play disc

> **!** **Caution**
>
> - Never look at the laser beam inside the unit.
> - Risk of product damage! Never play discs with accessories such as disc stabilizer rings or disc treatment sheets.
> - Do not push on the disc tray or put any objects other than discs on the disc tray.

1 Press **DISC** to select the disc source.

2 Press **OPEN/CLOSE▲** to open the disc compartment.

3 Insert a disc with the printed side facing up, then close the disc compartment.
   » Play starts automatically.

   - If play does not start, select an option from the disc menu, and then press ▶.
   - To start/resume play, press ▶.
   - To pause play, press ❚❚.
   - To stop play, press ■.
   - To skip to a track/file/chapter, press ❙◀/▶❙.
   - To search within a track/file/chapter, press ◀◀/▶▶ repeatedly to select a preset speed: X2, X4, X8, or X20. Press ▶ to resume normal play.

> **Note**
>
> - To play a locked DVD, enter the 4-digit parental control password.

Access the disc menu

When you load a DVD/(S)VCD disc, a menu may be displayed on the TV screen.

To access or exit the menu manually:

1 Press **SYSTEM MENU**.

For VCD with PlayBack Control (PBC) feature (version 2.0 only):

1 During play, press **DISC MENU** to enable/disable PBC.

  » When PBC is enabled, the menu screen is displayed.

  » When PBC is disabled, normal play is resumed.

  » With the PBC feature, you can play VCD interactively according to the menu screen.

Select a subtitle language

You can select a subtitle language on DVDs.

1 During play, press **SUBTITLE**.

Note

• For some DVDs, the language can only be changed from the disc menu. Press **DISC MENU** to access the menu.

Play from USB

Caution

• Ensure that the USB device contains playable audio content.

1 Connect the USB device into the ⟶⟵ socket.
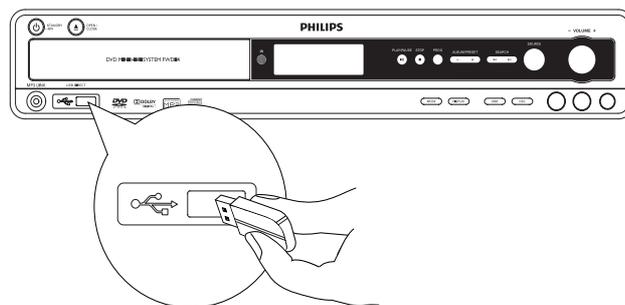
2 Press **USB/MP3 LINK** to select the USB source.

  » Play starts automatically.

  • To start/resume play, press ▶.

  • To pause play, press ❚❚.

  • To stop play, press ■.

  • To skip to a track/file/chapter, press ⏮/⏭.

  • To search within a track/file/chapter, press ◀◀/▶▶ repeatedly to select a preset speed: X2, X4, X8, or X20. Press ▶ to resume normal play.

Play MP3/WMA/picture files

You can play MP3/WMA/picture files copied onto a disc or USB device.

1 Insert a disc or connect a USB device.

2 Select a source:

  • For discs, press **DISC**.

  • For USB devices, press **USB/MP3 LINK** .

  » The disc menu is displayed on the TV screen.

3 Press ◀/▶ to select the folder/file column.

4 Press ▲/▼ to select a folder/file, then press **OK** to confirm.
- To stop play, press ■.
- To pause play, press ‖.
- To skip to the previous/next file, press ◄◄/►►.

Play mixed contents

You can play a disc or USB flash disk containing MP3/WMA files, JPEG photos and MPEG video files.

1 Press the navigation button ► repeatedly to navigate to a media type icon (audio, photo, or video).

2 Press **OK** to select the desired media type.

3 Press ▲.

4 Press ▲▼ to select a file.

5 Start the play.
- For photos, press **OK** to start the sequential play.
- For an audio file, the selected file starts to play automatically.
- For a video file, press the button ► (play).

Control the play

Button	Option
►	Start or resume play.
‖	Pause play.
■	Stop play.
◄◄/►►	Skip to the previous/next photo.

Play control

Repeat play

You can select various repeat functions during play. The repeat play options vary depending on the disc type.

For DVD,

1 press **REPEAT** repeatedly to choose a play mode.
- **[CHAPTER]**
  Repeat the current chapter
- **[TITLE]**
  Repeat the current title
- **[OFF]**
  Switch off the repeat mode

For SVCD/VCD (PBC off) /CD/MP3/WMA,

1 press **MODE** repeatedly to choose a play mode.
- **[REP 1]**
  Repeat the current track
- **[REP DIR]** (for MP3/WMA only)
  Repeat the current folder
- **[REP ALL]**
  Repeat the disc
- **[OFF]**
  Switch off the repeat mode

To return to normal play,

1 press **REPEAT/MODE** repeatedly until play mode is no longer displayed.

Repeat a selected section (DVD/VCD/CD/MP3/WMA)

1 During music or video play, press **A-B** at the start point.

2 Press **A-B** at the end point.
- » The section starts to play repeatedly.
- » To cancel repeat play, press **A-B** again.

Note

- The section A and B can be set only within the same chapter/track.

Search by time or chapter/track number

1   During play, press **GOTO**.
    ↳ A time field or chapter/track field is displayed.

2   Press ◄/► to select the time field or the chapter/track field.
    •   For the time field, enter the play position in hours, minutes and seconds.
    •   For the chapter/track field, enter the chapter/track.
    •   Play starts automatically at your selected point.

Play options

Display play information

1   During play, press **DISPLAY** repeatedly to select different play information.

Program

Note

• You cannot program picture files/discs.

You can program a maximum of 16 favourite tracks/chapters for play in specified order.

For MP3/WMA files,

1   Press ■ and then **PROG** to enter program mode.

2   Enter a track number, and then press **OK** to confirm.

3   Repeat step 2 to program more tracks.

4   When the program is complete, press ►Ⅱ to start play.
    •   To change a program, repeat the steps above.
    •   To clear the program, press ■ twice.

For DVD discs,

1   Press ■ and then **PROG** to enter program mode.

2   Enter a title number under 'T', and then press **OK** to confirm.

3   Enter a chapter number under 'C', and then press **OK** to confirm.

4   Repeat step 2-3 to program more chapters.

5   When the program is complete, press ►Ⅱ to start play.
    •   To change a program, repeat the steps above.
    •   To clear the program, press ■ twice.

Change camera angle

Some DVDs contain alternate scenes, such as scenes recorded from different camera angles. For such DVDs, you can select from the available alternate scenes.

1   During play, press **ANGLE** repeatedly to switch between camera angles.

Change the audio channel

Note

• This feature is only available for DVD/SVCD with multiple audio languages.

1   During play, press **AUDIO** repeatedly to select an audio channel available on the disc.

Zoom in/out image

1   During video/picture play, press **ZOOM** repeatedly to zoom in/out the image.
    •   When the image is zoomed in, you can press ▲/▼/◄/► to pan through the image.

Picture view options

Select a slide show play mode

1 During play, press **PROG** repeatedly to select a slide-show play mode.

Rotate picture

1 During play, press ▲/▼/◄/► to rotate the picture.

Listen to an external device

You can also listen to an external audio device through this audio system.

1 Press **USB/MP3 LINK** on the remote control to select the MP3 link source.

2 Connect the supplied MP3 link cable to:
- the **MP3 LINK** socket on this unit.
- the headphone socket on an MP3 player.

3 Start to play the MP3 player. (See the user manual of the MP3 player)

6 Adjust settings

System setup

SYSTEM SETUP

- TV SYSTEM
- SCREEN SAVER
- VIDEO
- TV TYPE
- PASSWORD
- RATING
- DEFAULT
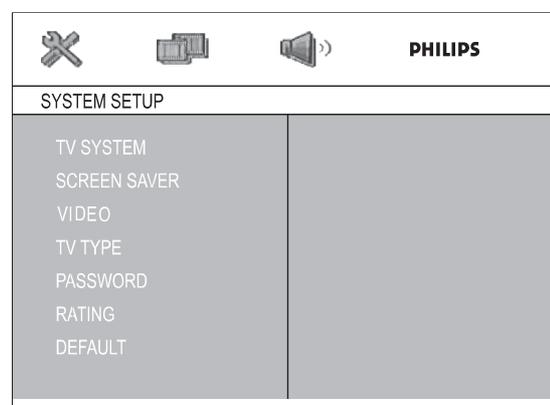
Select TV system

Select the color system that matches the connected TV.

1 Press **SYSTEM MENU**.

2 Select **[SYSTEM SETUP]**>**[TV SYSTEM]**, and then press ►.

3 Select an option and then press **OK**.
- **[NTSC]**
  For TV with NTSC color system.
- **[PAL]**
  For TV with PAL color system.
- **[AUTO]**
  For TV with multiple color systems.

4 Press **SYSTEM MENU** to exit.

Set screen saver

The screen saver protects the TV screen damage due to prolonged exposure to a static image.

1 Press **SYSTEM MENU**.
» The system setup menu is displayed.

2 Select **[SYSTEM SETUP]** > **[SCREEN SAVER]**, and then press ►.

3 Select an option and then press **OK**.
- **[ON]**
 Enable the screen saver.
- **[OFF]**
 Disable the screen saver.

4 Press **SYSTEM MENU** to exit the menu.

Select video signal

You can select video signal output to a display or TV.

1 Press **SYSTEM MENU**.

2 Select **[SYSTEM SETUP]** > **[VIDEO]**, and then press ▶.

3 Select an option and then press **OK**.
- **[INTERLACE-YUV]**
 If the composite video connection is used, select this option.
- **[P-SCAN YPBPR]**
 If the component video connection is used, select this option.

4 Press **SYSTEM MENU** to exit.

Select TV type

The TV format determines the aspect ratio of display according to the type of TV you have connected.

1 Press **SYSTEM MENU**.

2 Select **[SYSTEM SETUP]** > **[TV TYPE]**, and then press ▶.

3 Select an option, and then press **OK**.

4:3 Pan Scan (PS)   4:3 Letter Box (LB)   16:9 (Wide Screen)

- **[4:3PS]**
 For 4:3 screen TV: full-height display with the trimmed sides.
- **[4:3LB]**
 For 4:3 screen TV: wide-screen display with black bars on the top and bottom of the screen.

- **[16:9]**
 For wide-screen TV: display ratio 16:9.

Change parental control password

You can set a password to restrict play of certain discs.

1 Press **SYSTEM MENU**.

2 Select **[SYSTEM SETUP]** > **[PASSWORD]**, and then press ▶.

3 Enter the four-digit password with **Numeric keypad 0-9** and then press **OK**.
- To change the password, enter a new password, and then press **OK**.

4 Press **SYSTEM MENU** to exit.

Note

- The default password (0000) remains valid even if a new password is set.

Restrict DVD play

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. You can set a playback permission level for the scenes with this setting.

Note

- VCD, SVCD, and CD have no level indication, so parental control function has no effect on those kind of discs. Some DVDs are not encoded with a rating though the movie rating may be printed on the Disc cover. The rating level features does not work for such discs.

1 Press **SYSTEM MENU**.

2 Select **[SYSTEM SETUP]** > **[RATING]**, and then press ▶.

3 Select an option and then press **OK**.
 ↳ DVDs that are rated above the level you selected does not play unless you enter your four-digit password and choose a higher level rating.

- **[1 KID SAFE]**
  Suitable for children.
- **[2 G]**
  Recommended as acceptable for viewers of all ages.
- **[3 PG]**
  Parental guidance suggested.
- **[4 PG13]**
  Unsuitable for children under age 13.
- **[5 PG-R]**
  Parental Guidance; recommended that parents restrict children under 17 from viewing.
- **[6 R]**
  Restricted; recommended only when supervised by a parent or adult guardian.
- **[7 NC-17]**
  Not recommended for children under age 17.
- **[8 ADULT]**
  Viewed only by adults due to graphic sexual scenes, violence, or language.

4 Press **SYSTEM MENU** to exit.

Restore default settings

You can reset all options and your personal settings to factory default settings.

1 Press **SYSTEM MENU**.

2 Select **[SYSTEM SETUP]** > **[DEFAULT]**, and then press ▶.

3 Select **[RESTORE]** and press **OK**.

4 Press **SYSTEM MENU** to exit.

Language setup
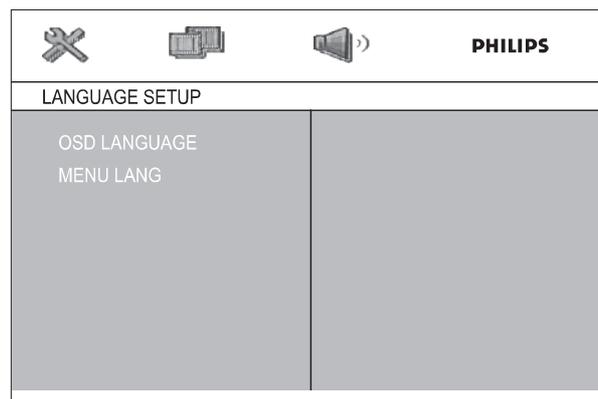
Select OSD language

1 Press **SYSTEM MENU**.

2 Select **[LANGUAGE SETUP]** > **[OSD LANGUAGE]**, and then press ▶.

3 Select an option and then press **OK**.

4 Press **SYSTEM MENU** to exit.

Change system menu language

1 Press **SYSTEM MENU**.

2 Select **[LANGUAGE SETUP]** > **[MENU LANG]**, and then press ▶.

3 Select an option and then press **OK**.

4 Press **SYSTEM MENU** to exit.

Audio setup

![AUDIO SETUP menu screen showing PHILIPS logo with menu items: AUDIO OUT, DOWNMIX, 3D PROCESSING, NIGHT MODE]
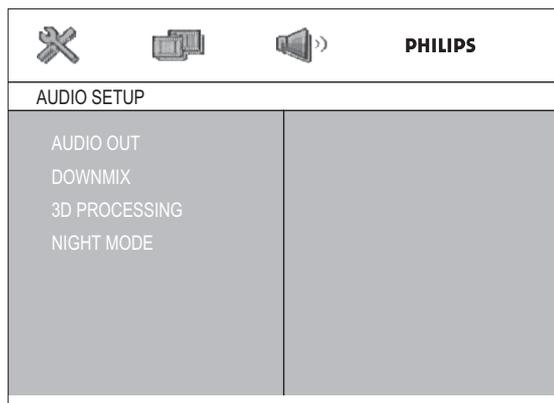
Select digital output

Select a suitable setting if you have connected an audio/video device to the COAXIAL (DIGITAL AUDIO) socket on the unit.

1 Press **SYSTEM MENU**.
2 Select **[AUDIO SETUP]** > **[AUDIO OUT]**, and then press ▶.
3 Select an option and then press **OK**.
   - **[SPDIF/OFF]**
     Select this option to turn off digital output.
   - **[SPDIF/RAW]**
      Select this option if the connected device is a multi-channel decoder/ receiver.
   - **[SPDIF/PCM]**
     Select this option if the connected device cannot decode multi-channel audio.
4 Press **SYSTEM MENU** to exit.

Select audio downmix

Select a suitable audio downmix when you play a DVD recorded in Dolby Digital format.

1 Press **SYSTEM MENU**.
2 Select **[AUDIO SETUP]** > **[DOWNMIX]**, and then press ▶.

3 Select an option and then press **OK**.
   - **[LT/RT]**
     Select this if the unit is connected to a Dolby Pro Logic decoder.
   - **[STEREO]**
     Select this when output delivers sound from only the two front speakers.
   - **[VSS]**
     Allow the DVD player to use virtual surround sound effects.
4 Press **SYSTEM MENU** to exit.

Set 3D processing

To select a virtual surround sound mode:
1 Press **SYSTEM MENU**.
2 Select **[AUDIO SETUP]** > **[3D PROCESSING]**, and then press ▶.
3 Select an option and then press **OK**.
   - [OFF]
   - [CONCERT]
   - [CHURCH]
   - [PASSIVE]
   - [WIDE]
   - [LIVE]
4 Press **SYSTEM MENU** to exit.

Set night mode

1 Press **SYSTEM MENU**.
2 Select **[AUDIO SETUP]** > [**NIGHT MODE**], and then press ▶.
3 Select an option and then press **OK**.
   - Make loud sound level softer and soft sound level louder so that you can watch the DVD movies at a low volume, without disturbing others.
     [ON] - Enjoy quiet viewing at night.
     [OFF] - Enjoy surround sound with a full dynamic range.
4 Press **SYSTEM MENU** to exit.

 Note

- Applicable only to Dolby Digital encoded DVD.

7 Adjust sound

Adjust volume

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

Mute sound

1 During play, press **MUTE** to mute/unmute sound.

Select a preset sound effect

1 During play, press **DSC** repeatedly to select:
- [OPTIMAL] (optimal)
- [JAZZ] (jazz)
- [TECHNO] (techno)
- [ROCK] (rock)

Enhance bass

1 During play, press **DBB** to turn on or off dynamic bass enhancement.
  - ↪ If DBB is activated, DBB is displayed.

8 Listen to the radio

Tune to a radio station

> ❋ **Tip**
>
> - For optimal FM reception, fully extend and adjust the position of the FM antenna.

1 Press **TUNER** to select the tuner source.

2 Press and hold ◄◄/►► for more than 2 seconds.
  - ↪ The radio tunes to a station with strong reception automatically.

3 Repeat step 2 to tune to more stations.
  - To tune to a weak station, press ◄◄/►► repeatedly until you find optimal reception.

Program radio stations automatically

You can program a maximum of 20 preset FM radio stations.

1 In tuner mode, press and hold **PROG** for 2 seconds to activate automatic program mode.
  - ↪ [AUTO] (auto) is displayed and begins to blink.
  - ↪ All available stations are programmed in the order of waveband reception strength.
  - ↪ The first programmed radio station is broadcast automatically.

Program radio stations manually

You can program a maximum of 20 preset FM radio stations.

1 Tune to a radio station.

2 Press **PROG** to activate program mode.
» [PROG] (program) blinks on the display.

3 Press **ALBUM/PRESET -/+** to allocate a number (1 to 20) to this radio station, then press **PROG** to confirm.
» The preset number and the frequency of the preset station are displayed.

4 Repeat the above steps to program other stations.

✱ **Tip**

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

Select a preset radio station

1 In tuner mode, press **ALBUM/PRESET -/+** to select a preset number.

9 Play tape recorder

Note

- When you play or record a tape, the sound source cannot be changed.

Play tapes

You can also listen to tapes with this product.

1 Press **SOURCE** on the main unit to select the tape source.

2 Press ■▲ to open the tape door.

3 Load the tape with the open side downward and the full spool to the left.

4 Press ► to start play.
- To pause/resume play, press ❚❚.
- To fast rewind/forward the tape, press ◄◄/►►.
- To stop play, press ■▲.

Record form different sources

You can record from different sources.

Record from disc

1 Press **DISC** to select the disc source.

2 Place a disc on the tray with the printed side facing up.

3 Press ■▲ to open the tape compartment.

4 Insert a blank tape and close the tape compartment.

5 Select the desired track(s).
- To record a specific track, press ◄◄/►► to select the track.
- To start recording from a point within a track, press ❚❚ at the point.
- To record tracks in a specific sequence, program the tracks (see "**Play options**">"**Program**").

6 Press ● to start to record.
- To pause, press ❚❚. To resume, press ❚❚ again.
- To stop, press ■▲.

Record from radio

1 Tune to a radio station.

2 Press ■▲ to open the tape door.

3 Insert a blank tape and close the tape compartment.

4 Press ● to start to record.
- To pause, press ❚❚. To resume, press ❚❚ again.
- To stop, press ■▲.

Record from external source

1 Press **USB/MP3 LINK** to select an external source.

2 Connect the external device.

3 Play the selected source.

4 Insert a blank tape and close the tape compartment.

5 Press ● to start to record.
- To pause, press ❚❚. To resume, press ❚❚ again.
- To stop, press ■▲.

Record to a digital recorder

You can record audios through the product to a digital recorder.

1 Connect a coaxial cable (not supplied) to:
- the **COAXIAL** socket on this unit.
- the digital input socket on the digital recorder.

2 Play the audio to be recorded.

3 Start to record on the digital recorder (see the user manual of the digital recorder).

10 Product information

Note

- Product information is subject to change without prior notice.

Specifications

Amplifier

Rated Output Power	2 X 10W RMS
Frequency Response	100 - 10000Hz, ±3dB
Signal to Noise Ratio	> 50dB
Output Sensitivity	
Line Out (1 kHz 0dB)	2±0.2V

Disc

Laser Type	Semiconductor
Disc Diameter	12cm/8cm
Video Decoding	MPEG-2/MPEG-1
Video DAC	10 Bits
Signal System	PAL/NTSC
Video Format	4:3/16:9
Video S/N	56 dB (minimum)
Composite Video Output	1.0 Vp-p, 75 ohm
Audio DAC	24Bits / 96 kHz
Total Harmonic Distortion	<1%
Frequency Response	4 Hz - 20 kHz (44.1kHz) 4 Hz - 22 kHz (48 kHz) 4 Hz - 44 kHz (96 kHz)

Digital Output	SPDIF (Sony Philips digital interface) coaxial
Total Harmonic Distortion	< 0.1% (1 kHz)
Channel Separation	40 dB minimum (1 kHz)
S/N Ratio	>65dBA

Tuner

FM

Tuning Range	87.5 - 108 MHz
Tuning grid	50 KHz
Sensitivity	
- Mono, 26dB S/N Ratio	<22 dBu
- Stereo, 46dB S/N Ratio	<45 dBu
Search Selectivity	<28 dBu
Total Harmonic Distortion	<3%
Signal to Noise Ratio	≥ 50 dB

Tape deck

Frequency Response	
- Normal tape (type I)	125-8000Hz / ±4dB
S/N Ratio	
- Normal tape (type I)	≥ 45dB
JIS and WTD	≤ 0.35%

Speakers

Speaker Impedance	8 ohm
Speaker Driver	
Sensitivity	>82 dB/m/W

General information

AC power	110-240V, 50/60 Hz
Operation power consumption	15W
Standby power consumption	≤ 1W
USB direct	V2.0, V1.1
Dimensions	
- Main Unit (W x H x D)	415 x 320 x 77 mm
- Speaker Box (W x H x D)	194 x 213 x 287 mm
Weight	
- With Packing	8.60 kg
- Main Unit	3 kg
- Speakers	3.94 kg

Supported disc formats

- Digital Video Discs (DVDs)
- Video CDs (VCDs)
- Super Video CDs (SVCDs)
- Digital Video Discs + Rewritable (DVD+RW)
- Compact Discs (CDs)
- Picture (Kodak, JPEG) files on CDR(W)

Supported MP3-CD formats:
- ISO 9660 / UDF format
- Max. title/album name: 12 characters
- Max. title number plus album: 255.
- Max. nested directory: 8 levels.
- Max. album number: 32.
- Max. MP3 track number: 999.
- Supported sampling frequencies for MP3 disc: 32 kHz, 44.1 kHz, 48 kHz.
- Supported Bit-rates of MP3 disc are: 32, 64, 96, 128, 192, 256 (kbps).

These formats are not supported:
- Files like *.VMA, *.AAC, *.DLF, *.M3U,
- *.PLS, *.WAV
- Non-English Album/Title name
- Discs recorded in Joliet format
- MP3 Pro

USB playability information

Compatible USB devices:

- USB flash memory (USB 2.0 or USB 1.1)
- USB flash players (USB 2.0 or USB1.1)
- memory cards (requires an additional card reader to work with this unit)

Supported formats:

- USB or memory file format FAT12, FAT16, FAT32 (sector size: 512-65,536 bytes)
- MP3 bit rate (data rate): 32-320 Kbps and variable bit rate
- WMA v9 or earlier
- Directory nesting up to a maximum of 8 levels
- Number of albums/ folders: maximum 99
- Number of tracks/titles: maximum 800
- ID3 tag v2.0 or later
- File name in Unicode UTF8 (maximum length: 128 bytes)

Unsupported formats:

- Empty albums: an empty album is an album that does not contain MP3/WMA files, and is not be shown in the display.
- Unsupported file formats are skipped. For example, Word documents (.doc) or MP3 files with extension .dlf are ignored and not played.
- AAC, WAV, PCM audio files
- DRM protected WMA files (.wav, .m4a, .m4p, .mp4, .aac)
- WMA files in Lossless format

Maintenance

Clean the cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Clean discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.
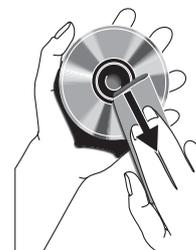

Clean the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good play quality, clean the disc lens with Philips CD lens cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Clean the heads and the tape paths

- To ensure good recording and play quality, clean the heads **A**, the capstan(s) **B**, and pressure roller(s) **C** after every 50 hours of tape operation.

- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.
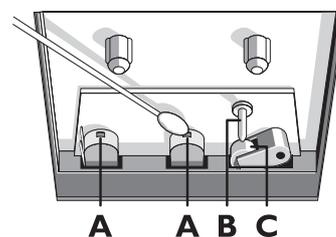
Demagnetise the heads

- Use a demagnetising tape available at your dealer.

11 Troubleshooting

⚠ **Warning**

- Never remove the casing of this apparatus.

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

If you encounter problems when using this apparatus, check the following points before requesting service. If the problem remains unsolved, go to the Philips web site www.philips.com/welcome. When you contact Philips, ensure that the apparatus is nearby and the model number and serial number are available.

No power

- Ensure that the AC power plug of the unit is connected properly.
- Ensure that there is power at the AC outlet.
- To save power, the system switches off automatically 15 minutes after track play reaches the end and no control is operated.

No sound or poor sound

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

Left and right sound outputs reversed

- Check the speaker connections and location.

No response from the unit

- Disconnect and reconnect the AC power plug, then turn on the system again.
- As a power-saving feature, the unit switches off automatically 15 minutes after track play reaches the end and no control is operated.

Remote control does not work

- Before you press any function button, first select the correct source with the remote control instead of the main unit.
- Reduce the distance between the remote control and the unit.
- Insert the battery with its polarities (+/− signs) aligned as indicated.
- Replace the battery.
- Aim the remote control directly at the sensor on the front of the unit.

No disc detected

- Insert a disc.
- Check if the disc is inserted upside down.
- Wait until the moisture condensation at the lens has cleared.
- Replace or clean the disc.
- Use a finalized CD or correct format disc.

No picture

- Check the video connection.
- Turn on the TV to the correct Video-In channel.
- Progressive scan is activated but the TV does not support progressive scan.

Black and white or distorted picture

- The disc does not match the TV color system standard (PAL/NTSC).
- Sometimes a slight picture distortion may appear. This is not a malfunction.
- Clean the disc.
- A distorted picture may appear during progressive scan setup.

The aspect ratio of the TV screen cannot be changed even though you have set the TV display format.

- The aspect ratio if fixed on the loaded DVD disc.
- The aspect ratio may not be changed for some TV systems.

Audio or subtitle languages cannot be set

- The disc is not recorded with sound or subtitles in multiple languages.
- The audio or subtitle language setting is prohibited on the disc.

The DVD player does not respond when buttons are pressed.

- Disconnect the power plug from the jack, and insert again.

Poor radio reception

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

Cannot display some files in USB device

- The number of folders or files in the USB device has exceeded a certain limit. This phenomenon is not a malfunction.
- The formats of these files are not supported.

USB device not supported

- The USB device is incompatible with the unit. Try another one.

12 Glossary

A

Analog audio
Sound that has not been turned into numbers. Analog sound is available when you use the AUDIO LEFT/RIGHT. These red and white jacks send audio through two channels, the left and right.

Aspect ratio
Aspect ratio refers to the length 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.

AUDIO OUT sockets
Red and white sockets that send audio to another system (TV, Stereo, etc).

B

Bit rate
Bit rate is the number of bits that are conveyed or processed per unit of time. The bit rate is usually measured in some multiple of bits per second (kilobits per second: kbps). The term bit rate is a synonym for data transfer rate (or simply data rate).

C

Chapter
Chapter
Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number that enables you to locate a specific chapter.

D

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

Disc menu
A screen display that allows election of images, sounds, subtitles, multi-angles, etc., recorded on a DVD.

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.)

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.'

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.

Multichannel
Usually DVD is specified to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

P

Parental control
A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

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.

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.)

S

Surround
A system that creates realistic, three-dimensional sound fields. It is usually achieved with multiple speakers that are arranged around the listener.

T

Title

On commercial DVDs, this is the longest section of a movie or music feature on DVD. Each title is assigned a title number, so that you can locate the title you want.

When you record programs, they are stored as titles. Depending on the recording settings, recorded titles may automatically contain several chapters.

V

VIDEO OUT socket

Yellow socket that sends the DVD picture video to a TV.

PHILIPS