NP2900/37

PHILIPS

Contents

English

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1 Important

Safety

Know these safety symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

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

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

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 For countries with a polarized mains, do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Caution: To prevent electric shock, match the wide blade of the plug to the wide slot, fully insert.
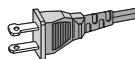
j Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

k Only use attachments/accessories specified by the manufacturer.

l 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.

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

n 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.

o 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.

p Apparatus shall not be exposed to dripping or splashing.

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

r 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.

> **⚠ Warning**
>
> - Never remove the casing of this NP2900.
> - Never lubricate any part of this NP2900.
> - Place this NP2900 on a flat, hard and stable surface.
> - Never place this NP2900 on other electrical equipment.
> - Only use this NP2900 indoors. Keep this NP2900 away from water, moisture and liquid-filled objects.
> - Keep this NP2900 away from direct sunlight, naked flames or heat.

Notice

Class II equipment symbol

This symbol indicates that the unit has a double insulation system.
For USA:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For Canada:
This Class B digital apparatus complies with Canadian ICES-003.
The set complies with the FCC-Rules, Part 15, with RSS-210 of Industry Canada. Operation is subject to the following two conditions:
- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity
Model number: NP2900/37
Trade name: Philips
Responsible party: Philips Consumer Lifestyle
A Division of Philips
Electronics
North America Corp.
P.O. Box 671539
Marietta, GA 30006-0026
1-800-PHILIPS (744-5477)

Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.
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.
Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.
When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:

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. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

Battery disposal information
Your product contains batteries covered by the European Directive 2006/66/EC, 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.
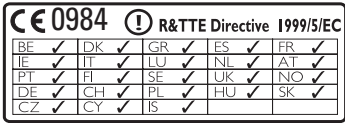
Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

2 Mount the NP2900 to a wall

⚠ **Caution**

- Risk of product damage! Always consult professional personnel to safely mount the product to a wall.

⚠ **Warning**

- Risk of injury! Ensure that no supply ducts such as gas, water or electricity are harmed when you drill the holes.

What's supplied in the mounting kit
- 1 x mounting bracket

What else you'll need
- Suitable screws and wall anchors for each of the holes in the provided mounting bracket
- electric drill
- screwdriver

Remove the stand:

1 Use a screwdriver to remove the screws of the stand.
   Keep the screws for the wall mounting bracket!

Mount the NP2900:

1 Align the bracket in the chosen location on a wall. Use a pencil to mark the drilling positions.

2 Drill the holes as marked.

3 Fix suitable screws (not provided) and wall anchors (not provided) to the holes in the wall.

4 Use a screwdriver and fasten the bracket to the NP2900 with the screws that you removed from the stand as shown.
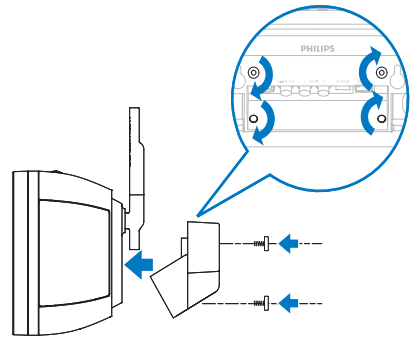
5 Hook / mount the NP2900 in place as shown.
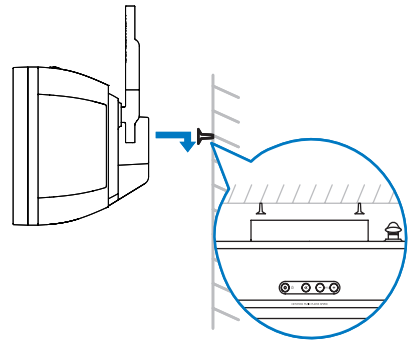
3 Your Network Music Player

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**.

Overview

Top view
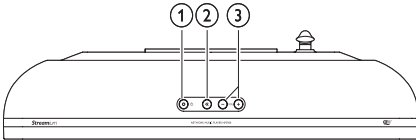
a ⏻ (On / Standby / Eco standby)

b 🔇 (mute the sound)

c +VOL − (adjust the volume)

Front view
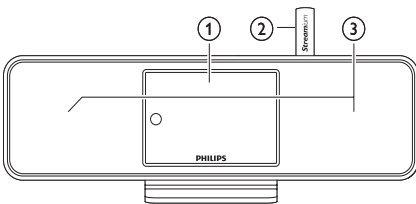
a Display

b Wi-Fi antenna

c Loudspeakers

Rear view

a 🎧 jack
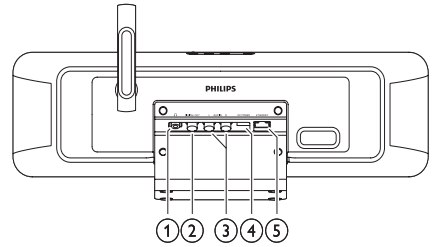
b DIGITAL OUT (black) jack

c AUX IN L / R (red/white) jacks

d POWER SUPPLY jack

e ETHERNET jack

Remote control

You can control the NP2900 with the remote control.
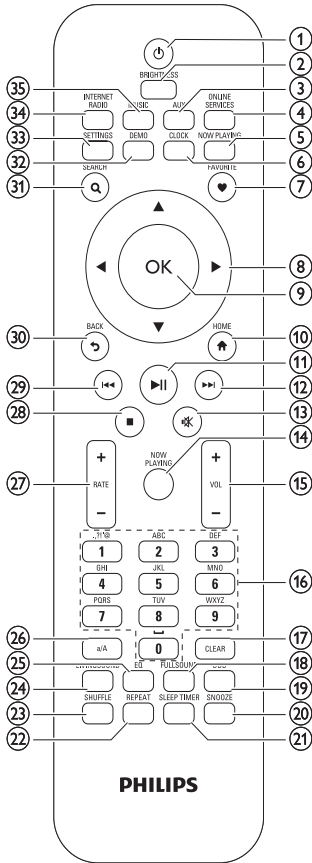
a ⏻ (On / Standby)

b BRIGHTNESS (adjust the display illumination)

c AUX (select the external source)

d ONLINE SERVICES (go to the optional online services menu)

e NOW PLAYING (go to the current play screen)

f CLOCK (activate the time display)

g FAVORITE (mark the current station as favorite)

h ▲▼◄► (navigate)

i OK (confirm)

j HOME (go to the Home menu)

k ►II (play/pause current file / SuperPlay™ current list)

l ►►I (skip to the next file)

m ✖ (mute/unmute the sound)

n NOW PLAYING (go to current play screen)

o +VOL − (increase/decrease the play volume)

p Alphanumeric buttons

q CLEAR (press to delete the last character entry / press and hold to delete the whole line entry)

r FULLSOUND (activate/deactivate FullSound™)

s DBB (activate/deactivate Dynamic Bass Boost)

t SNOOZE (stop the alarm sound for 15 minutes)

u SLEEP TIMER (toggle through the sleep timer options)

v REPEAT (toggle through the repeat play options)

w SHUFFLE (activate/deactivate the random order play)

x LIVINGSOUND (deactivate/activate LivingSound™)

y EQ (toggle through the preset equalizer options)

z a/A (change shift for the alphanumeric entry)

(27) +RATE − (increase/decrease rating of current music)

(28) ■ (stop)

(29) |◀◀ (skip to the previous file / clear last entry)

(30) BACK ↰ (go back to the previous screen)

(31) SEARCH (search files)

(32) DEMO (activate the demo play)

(33) SETTINGS (go to the Settings menu)

(34) INTERNET RADIO (go to the Internet radio menu)

(35) MUSIC (go to the Music menu)

4 Prepare

Install remote control batteries

![Caution] Caution

- Risk of explosion! Keep batteries away from heat, sunshine or fire. Never discard batteries in fire.
- Risk of decreased battery life! Never mix different brands or types of batteries.
- Risk of product damage! When the remote control is not used for long periods, remove the batteries.
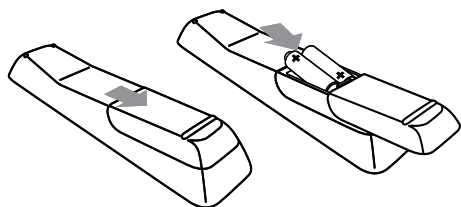
Position the NP2900

![Caution] Caution

- Risk of product damage! Place the NP2900 on a surface that is level, flat, and strong enough to support the NP2900.

5 Connect

Connect external audio devices

You can play music from an external appliance that is connected to the red and white AUX IN jacks of the NP2900 (see 'Rear view' on page 9).

1 Consult the user manual of the external appliance to connect the audio cable (sold separately) to the audio output jack of the external appliance.

2 Connect the other end of the audio cable (sold separately) to the **AUX IN L / R** jacks of the NP2900.
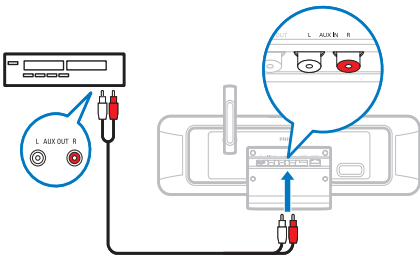
3 On the remote control of the NP2900 press **AUX**.

4 Operate the controls of the external appliance to play music.

Connect AC power

![Warning] **Warning**

- Risk of product damage! Ensure that the power supply voltage corresponds to the voltage printed on the back or the underside of the NP2900.

1 Connect the NP2900 to the power supply
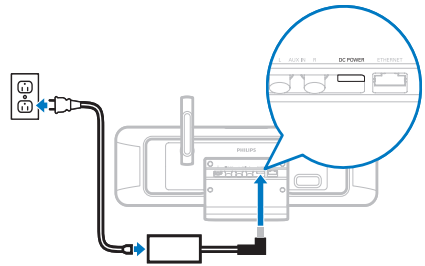
2 Continue with the steps in chapter First-time setup.

![Note] **Note**

- The type plate information is located at the back or at the underside of the NP2900.

6 Turn On and Switch to Active standby / Eco standby

You can select from the following status options:

- **On** (the full display and the remote control are active, button LED is off)
- **Active standby** (the clock display and the remote control are active, button LED is red)
- **Eco standby** (the display and the remote control are deactivated, button LED is off)

In status **On** or **Active standby**,
- press the ⏻ on the remote control to toggle the NP2900 between **Active standby** and **On**.
- press and hold the ⏻ on the NP2900 to switch the NP2900 to **Eco standby**.

In status **Eco standby**,
- press the ⏻ button on the NP2900 or on the remote control to turn the NP2900 **On**.

 Note

- In stop (idle) mode, if no buttons are pressed for 20 minutes, the NP2900 switches to Active standby.

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7 First-time setup

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⤺ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

When you connect the NP2900 to the power supply for the first time, the NP2900 displays the prompt for the language selection.

1 Select the language and confirm.
- » The NP2900 displays the prompt for the optional demo play.

You have two options:

- View the demo. (see 'View the demo' on page 15)
- Complete the first-time setup. (see 'First-time connection to home network' on page 15)

✳ Tip

- After the first-time set-up, you can change the language in the Settings menu.

View the demo

1 Select **"[Yes, show me the demo]"**, to view the demo.
- » The demo play starts.
- » To play demo again, repeat step 1.

2 To exit the demo play, press ⏻.

☰ Note

- The NP2900 remains in first-time setup status until you select **[No]** to decline the demo play.
- You can start the demo play again with the **DEMO** button on the remote control or in the Settings menu of the NP2900.

First-time connection to home network

After you select **[No]** to decline to view the demo, the NP2900 reminds you to select your location / time zone. The NP2900 also reminds you to register the NP2900 at **www.philips.com/welcome** and to install the PC software. This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⤺ to go back to the previous screen.
  - Press **HOME** to go to the Home menu.

1 Select the location / time zone and confirm.
- » The NP2900 shows the prompt for the network connection.

2 Select **[Yes]**, to create a connection to the network.
- » The NP2900 shows the prompt for the network setup (if no network has been set up yet).
- » Select **[No]** to exit the setup and go to the Home menu.

3 Continue with one of the following options:
- First-time setup: Wireless network connection with automatic IP address
  - » This setup requires the following:
  - » A wireless access point or wireless router with broadband Internet access

- » Manual entry of your encryption key (for encrypted network connections only)
- First-time setup: Wireless network connection with static IP address
  - » This setup requires the following:
  - » A wireless access point or wireless router with broadband Internet access
  - » Manual entry of your IP address.
  - » Manual entry of your encryption key (for encrypted network connections only)
- First-time setup: Wired (Ethernet) network connection with automatic IP address
  - » This setup requires the following:
  - » A wired access point or wired router with broadband Internet access and a free Ethernet port
  - » An Ethernet cable (sold separately).
- First-time setup: Wired (Ethernet) network connection with static IP address
  - » This setup requires the following:
  - » A wired access point or wired router with broadband Internet access and a free Ethernet port
  - » Manual entry of your IP address.
  - » An Ethernet cable (sold separately).

First-time setup: Wireless connection with automatic IP address

This is how to navigate and select with the remote control:
- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ↩ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

The alphanumeric buttons of the remote control are multi-function buttons:
- To select a number or an alphanumeric character, press a button once or more

until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
- To delete the whole last line entry from the display, press and hold **CLEAR**.

The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wireless setup with automatic IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.
- Ensure that your network name and network password or encryption key are available.

1 Turn on your wireless access point or wireless router with broadband Internet access.

2 Follow the steps in chapter First-time connection to home network until the NP2900 shows the prompt for the network setup.

3 Select **[Wireless (WiFi)]** to start the network setup process.
  - » The NP2900 searches for networks.

4 Select your network from the list of found networks and confirm.
- Enter the encryption key (if required) and confirm.
- The NP2900 acquires the automatic IP address.
- The NP2900 shows the confirmation for the connection to the network.
- The NP2900 shows the prompt for the connection to the Internet.

5 Select **[Yes]** to connect to the Internet.
  - » The NP2900 shows the confirmation for the connection to the Internet.

Note

- You can enter more than one encryption key. In this case, the NP2900 prompts you to select the default encryption key.

First-time setup: Wireless connection with static IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⤺ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

  The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

    The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wireless setup with static IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.
  - Ensure that your network name and network password or encryption key are available.

1 Turn on your wireless access point or wireless router with broadband Internet access.

2 Follow the steps in chapter First-time connection to home network until the NP2900 shows the prompt for the network setup.

3 Select **[Wireless (WiFi)]** to start the network setup process.
 ↳ The NP2900 searches for networks.

4 Select your network from the list of found networks and confirm.
  - Enter the encryption key (if required) and confirm.
  - The NP2900 tries to acquire an automatic IP address.

5 Press **BACK** ⤺ to enter your IP address manually.

6 Enter your static IP address and confirm.
 ↳ The NP2900 shows the confirmation for the connection to the network.
 ↳ The NP2900 shows the prompt for the connection to the Internet.

7 Select **[Yes]** to connect to the Internet.
 ↳ The NP2900 shows the confirmation for the connection to the Internet.

Note

- You can enter more than one encryption key. In this case, the NP2900 prompts you to select the default encryption key.

First-time setup: Wired connection with automatic IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⤺ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

    The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wired setup with automatic IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.

1 Connect an Ethernet cable (sold separately) to the ETHERNET jack of the NP2900 and the Ethernet jack of the wired router.

2 Ensure that the wired router is turned on and has broadband Internet access.

3 Follow the steps in chapter First-time connection to home network until the NP2900 shows the prompt for the network setup.

4 Select **[Wired (Ethernet)]** to start the network setup process.
  - ↪ The NP2900 acquires the automatic IP address.
  - ↪ The NP2900 shows the confirmation for the connection to the network.
  - ↪ The NP2900 shows the prompt for the connection to the Internet.

5 Select **[Yes]** to connect to the Internet.

↪ The NP2900 shows the confirmation for the connection to the Internet.

First-time setup: Wired connection with static IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ↰ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

  The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

    The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wired setup with static IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.

1 Connect an Ethernet cable (sold separately) to the ETHERNET jack of the NP2900 and the Ethernet jack of the wired router.

2 Ensure that the wired router is turned on and has broadband Internet access.

3 Follow the steps in chapter First-time connection to home network until the

NP2900 shows the prompt for the
network setup.

4 Select **[Wired (Ethernet)]** to start the
network setup process.
   ↳ The NP2900 tries to acquire an
     automatic IP address.
   ↳ Press **BACK** ⇦to enter your IP
     address manually.

5 Enter your static IP address and confirm.
   ↳ The NP2900 shows the confirmation
     for the connection to the network.
   ↳ The NP2900 shows the prompt for
     the connection to the Internet.

6 Select **[Yes]** to connect to the Internet.
   ↳ The NP2900 shows the confirmation
     for the connection to the Internet.

8 Play

You need the remote control to play music. This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ↰ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

The play and pause operations on the remote control of the NP2900 are the same for any music source that you choose:

1 Press **HOME**.

2 Select the source.

3 Select the options.

4 Press ▶❙❙ to play.

5 Press to play.
- Press ▶❙❙ to toggle between pause and play.

6 Press ■ to stop.

> ✱ Tip
>
> • The following chapters explain the play options and music sources that are available.

Adjust volume

1 During play, press ＋**VOL** － to adjust the volume.

Mute the sound

1 During play, press **MUTE** to toggle the sound off and on.

Shuffle play

You can play the audio files of the current selection in random order (shuffled).

1 During play, press **SHUFFLE** to toggle the shuffle function on and off.

Repeat play

You can repeat one or all audio files of the current selection.

1 In play mode, press **REPEAT** to toggle the repeat function as follows:
- **[Repeat 1]**
- The current audio file is continuously repeated until another mode or setting is selected.
- **[Repeat all]**
- All audio files of the current selection are continuously repeated until another mode or setting is selected.
- **[Off]** (default)
- Audio files are played once (normal play).

Wirelessly stream music from a computer

You can wirelessly stream music to the NP2900 from a connected computer, if you install TwonkyMedia™ on the computer and configure the computer to share your music. (If TwonkyMedia™ is already installed on the computer, you can skip the installation section and continue with the configuration. For any other media players, refer to the instructions supplied with the player.)

TwonkyMedia™ is a registered trademark of Packet Video™ Corporation. All rights reserved. © Packet Video Corporation, 10350 Science Center Drive, San Diego, California, USA.

Install Twonky Media Server

1 On the computer, insert the supplied software CD.
   » Installation starts.

2 Follow the instructions on the computer to install the **TwonkyMedia™ Server**.

Configure a PC to share music

You can share music from a PC with the NP2900. This chapter shows you how to configure the PC to share music.

1 Follow the instructions to install the TwonkyMedia™ Server.

2 On the PC, click **Start** > **Programs** > **TwonkyMedia™ Server** > **Run TwonkyMedia™ Server**.

3 Click the TwonkyMedia™ Server icon in the task bar.

4 Choose **TwonkyMedia™ Settings**.

5 In the **Basic Setup** of the Configuration Page, click on **Sharing**.
   » The content directories are scanned.
   » To manually locate the music, click **Browse**.
   » To manually add a new content directory, click **Add new content directory**.
   » To save the changes, press **Save Changes**.

6 On the remote control of the NP2900, press **HOME**.

7 Select **[Music]** and confirm with **OK**.
   » The display shows **[Searching for UPnP music servers…]**, followed by the list of media servers.

8 Press ▲▼ to select the server name and confirm with **OK**.

✱ Tip

• The TwonkyMedia™ sharing page lets you set the rescan behavior of the server. The default setting is -1 minute, which ensures auto-scan.

Configure a MAC to share music

You can share music from a MAC with the NP2900. This chapter shows you how to configure the MAC to share music.

1 Follow the instructions to install the TwonkyMedia™ Server.

2 On the MAC, click **Go** > **Applications** > **TwonkyMedia™ Server**.

3 Click the TwonkyMedia™ Server icon in the task bar.

4 Choose **TwonkyMedia™ Settings**.

5 In the **Basic Setup** of the Configuration Page, click on **Sharing**.
   » The content directories are scanned.
   » To manually locate the music, click **Browse**.
   » To manually add a new content directory, click **Add new content directory**.
   » To save the changes, press **Save Changes**.

6 On the remote control of the NP2900, press **HOME**.

7 Select **[Music]** and confirm with **OK**.
   » The display shows **[Searching for UPnP music servers…]**, followed by the list of media servers.

8 Press ▲▼ to select the server name and confirm with **OK**.

✱ Tip

• The TwonkyMedia™ sharing page lets you set the rescan behavior of the server. The default setting is -1 minute, which ensures auto-scan.

Alphanumeric search

You can perform an alphanumeric search for specific audio files on a connected UPnP device. This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⤺ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

This is how to use the alphanumeric search feature:

1 Turn on the NP2900.
2 Press **MUSIC**.
  ↳ The display shows the available servers.
3 Select the server.
  ↳ The display shows the available lists.
4 Select the list.
5 Press **SEARCH**.
  ↳ The display shows a text box.
6 Press the alphanumeric buttons on the remote control to enter the search word.
7 Press **OK** to start the search.
  ↳ The NP2900 shows the closest alphabetical match.
8 To stop the search, press ■.

- Press **HOME** to go to the Home menu.

Internet radio

> **Note**
>
> - Internet radio features require broadband Internet access.

Listen to Internet radio

1 Turn on the NP2900.
2 Ensure that the NP2900 is connected to broadband Internet.
3 Press **INTERNET RADIO** to view the options menu
  - **[Favorite stations]** (lists the Internet radio stations that you have marked as Favorite Station)
  - **[Recently played]** (lists the most recently played Internet radio stations)
  - **[Recommended stations]** (lists recommended Internet radio services stations)
  - **[Search]** (lets you search for Internet radio stations)
  - **[All stations]** (lists all Internet radio stations, categorized by genres)
  - **[Recorded shows]** (lists all recorded Internet radio shows)
  - **[My Media]** (lists the Internet radio stations that you have entered at **Club Philips** under **Streamium Management**)
4 Press ▲ or ▼, then ▶ to select the option.
  - To listen to a specific Internet radio station, select option **[Search]**, then use the alphanumeric buttons to enter the radio station name.
- Press **HOME** to go to the Home menu.

Mark radio stations as Favorites

You can mark Internet radio stations as your Favourites so next time you want to listen to a station, it is easy to find.

1 Turn on the NP2900.

2 Ensure that the NP2900 is connected to broadband Internet.

3 When you listen to Internet radio, press **FAVORITE** to mark the station.
   • Press **HOME** to go to the Home menu.
   • The next time you connect to the Internet radio, the radio station is shown in the Favorite Stations menu.

Listen to Favorite Stations

When you place bookmarks for Internet radio stations (see 'Mark radio stations as Favorites' on page 23), you can find them under Favorite Stations.

1 Turn on the NP2900.

2 Ensure that the NP2900 is connected to broadband Internet.

3 Press **INTERNET RADIO**.

4 Select **[Favorite stations]**.

5 Select the station.
   • Press **HOME** to go to the Home menu.

Remove a Favorite Station

You can remove Internet radio stations from your Favorites:

1 While listening to an Internet radio station that is bookmarked as a Favorite, press **CLEAR**.
   ↦ The current station is no longer bookmarked as a Favorite.

Manually add Internet radio stations

This chapter explains how to register with Philips and add individual URL addresses for Internet radio stations on the PC.

1 Ensure that the NP2900 is turned on.

2 Ensure that the NP2900 is connected to the Internet.

3 On the NP2900, select **[Settings]** > **[Registration information]** > **[User registration]**.
   ↦ The registration display is shown.

4 Press alphanumeric buttons on the remote control to enter your valid email address.

5 Press **OK**.
   ↦ The display confirms the automated email dispatch to your mailbox.

6 Check the email inbox for a message from **ConsumerCare@Philips.com** with the subject **Your Streamium Registration...**.

7 Follow the instructions in the email to complete your registration process on the Philips website.

8 On the registered product site, click the link **Streamium Management**.

9 Select **My Media**.

10 Click on the tab **Music**.

11 Enter the URL address of Internet radio station in the first column.

12 Enter a nickname in the second column.
   » The nickname is the Internet radio stations identification that is displayed the NP2900.

13 Enter a description in the third column.

14 Click on **Save** to confirm your entries.

> **Note**
>
> • If the manually added Internet radio station is available and broadcast in a compatible format, you can listen to it on the NP2900.
> • You can find the manually added Internet radio stations in the My Media list on the NP2900.
> • Internet radio features require broadband Internet access.

Listen to My Media

When you manually add an Internet radio station, the Internet radio station is found under **[My Media]**.

1 Turn on the NP2900.

2 Ensure that the NP2900 is connected to broadband Internet.

3 Press **INTERNET RADIO**.

4 Select **[My Media]**.
   » The display shows the list of Internet radio stations stored under **[My Media]**.

5 Press **OK** to start play.

- To return to the Home menu, press **HOME**.

> **Note**
>
> • The feature **My Media** requires registration with **Club Philips**.
> • Internet radio features require broadband Internet access.

Listen to Rhapsody® music services

> **Note**
>
> • This feature requires broadband Internet access.
> • This feature requires a Rhapsody® account.
> • This feature is only available in some regions.

Rhapsody® is an on-line music service that offers streaming on-demand access to its library of digital music. You can use this online service with your NP2900.

Available features can include:

- **[My Library]** (built from your Rhapsody Music Library)
- **[Channels]** (lets you select virtual Internet radio channels with different genre options and other features)
- **[Search]** (lets you search for music in the Rhapsody Music Library)
- **[Music guide]** (guides you through the Rhapsody Music Services)
- **[My Rhapsody]** (lets you create and select your albums, dynamic playlists, ratings)
- **[Account management]** (helps you manage your Rhapsody Account)

1 Turn on the NP2900.

2 Ensure that the NP2900 is connected to broadband Internet.

3 Press **HOME**.

4 Select **[Rhapsody]**.

5 Follow the instructions that are displayed:
   - Rhapsody® instructions to select the services available to you.

- **Account management** instructions to sign in with a full account.

6 Press ▲ or ▼, then **OK** to select.
- Press **HOME** to go to the Home menu.

Note

- The on-line Rhapsody® services that are available depend on the type of account you hold.
- Rhapsody® and the Rhapsody logo are registered trademarks of RealNetworks, Inc.

Rate Rhapsody® music

You can use the remote control to rate the music.

1 While you navigate through Rhapsody® music on the NP2900, press ╋**RATE** ━ to rate the current track in the display.
» The selected rating is indicated in stars.
» Press **HOME** to go to the Home menu.

Note

- The on-line Rhapsody® services that are available depend on the type of account you hold.

9 Settings

The following settings are available to you:
- **[Play mode]**
- **[Sound settings]**
- **[Display settings]**
- **[Album art]**
- **[Clicker sound]**
- **[Alarm clock settings]**
- **[Network settings]**
- **[Location and time zone]**
- **[Language]**
- **[User registration]**
- **[Check for software upgrades]**
- **[Demo mode]**
- **[Information]**
- **[Call centre numbers]**
- **[Restore factory settings]**

This is how to navigate and select with the remote control:
- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⤺ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

This is how you change settings:

1 Turn on the NP2900.

2 Press **SETTINGS**.

3 Select menu option and confirm.

Play mode

The NP2900 offers play mode options that can be toggled with buttons on the remote control.
- Shuffle play (see 'Shuffle play' on page 20)
- Repeat play (see 'Repeat play' on page 20)
  You can also change the play mode options in the Settings menu:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select
  - **[Repeat]** or
  - **[Shuffle]**.

3 Select your option and confim.

Sound settings

The sound settings of the NP2900 offer the following options:
- LivingSound™ (see 'LivingSound' on page 26)
- Equalizer (see 'Equalizer settings' on page 26)

LivingSound

The NP2900 offers a pre-configured sound setting called **LivingSound™**. The **LivingSound™** feature enlarges the area in which stereo sound is heard, so that the listener need not sit directly in front of the NP2900 to hear stereo sound.

1 Press **LIVINGSOUND** to toggle the **LivingSound™** feature off and on (default).

> **Note**
>
> • The **LivingSound™** feature is not supported with the use of headphones.

Equalizer settings

You can choose between the following equalizer options:
- **[FullSound]**
- **[Dynamic Bass Boost]**
- **[Rock]**
- **[Pop]**
- **[Jazz]**
- **[Classic]**
- **[Off]**

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Sound settings]** > **[Equalizer]**.

3 Select a menu option and confirm.

Display settings

The display settings of the NP2900 offer the following display illumination options:

- Brightness when the NP2900 is turned on. (see 'Brightness settings when the NP2900 is turned on' on page 27)
- Brightness when when the NP2900 is switched to standby. (see 'Brightness settings when the NP2900 is switched to standby' on page 27)

Brightness settings when the NP2900 is turned on

You can choose between the following brightness 'when on' settings:

- **[Bright]**
- **[DIM]**
1 Press **SETTINGS**, to go to the Settings menu.
2 Select **[Brightness when on]**.
3 Select a menu option and confirm.

Brightness settings when the NP2900 is switched to standby

You can choose between the following brightness 'when standby' settings:

- **[Bright]**
- **[DIM]**
- **[Off]**
1 Press **SETTINGS**, to go to the Settings menu.
2 Select **[Brightness when standby]**.
3 Select a menu option and confirm.

Clicker sound

The NP2900 can give you an audible feedback (clicker sound) every time you press a button on the remote control.
You can toggle the clicker sound on or off:
1 Press **SETTINGS**, to go to the Settings menu.
2 Select **[Clicker sound]**.
3 Highlight the option, then press **OK**.

Album art

The NP2900 can display album art as a background or as a thumbnail in the music play screen. Album art must be available to be displayed. For albums without available album art, the NP2900 displays a default icon.
You can toggle the album art display on or off:
1 Press **SETTINGS**, to go to the Settings menu.
2 Select **[Album art]**.
3 Highlight the option, then press **OK**.

Clock settings

The NP2900 has a clock with alarm functions. The clock must be set for the alarm function to be functional.
This is how to set the clock:
1 Press **SETTINGS**, to go to the Settings menu.
2 Select **[Clock settings]** > **[Date and time]**, to enter the date and time settings.
3 You can select the following options:
- **[Current date and time]** > **[Automatic (Internet)]**, to sync the time automatically via the Internet (requires Internet connection).
- **[Current date and time]** > **[Manual]**, to set the time manually.
To set the date and time manually:

1 Press ▲ or ▼ to adjust the setting.

2 Press **OK** to confirm.

In the date and time settings, you can set the following formats:

- **[Time format]** - Set your option in the time format sub-menu.
- **[Date format]** - Set your option in the date format sub-menu.
- **[Daylight saving time]** - Mark the box to select this option.

Alarm settings

The NP2900 has an alarm function. The clock must be set for the alarm function to be functional.

This is how to set the alarm:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Clock settings]** > **[Alarm]**, to enter the alarm settings.

3 You can select the following options:
- **[Alarm off]** (default)
- **[Music]**
- **[Buzzer]**

To set the alarm time:

1 Press ▲ or ▼ to adjust the setting.

2 Press **OK** to confirm.

Network settings

You can choose between different setups. This manual explains the following options:

- Wireless network connection with automatic IP address (see 'Wireless connection with automatic IP address' on page 28)
  - ⇥ This is the most common network setup.
  - ⇥ This setup requires the following:
  - ⇥ A wireless access point or wireless router with broadband Internet access

  - ⇥ Manual entry of your encryption key (for encrypted network connections only)
- Wireless network connection with static IP address (see 'Wireless connection with static IP address' on page 29)
  - ⇥ This setup requires the following:
  - ⇥ A wireless access point or wireless router with broadband Internet access
  - ⇥ Manual entry of your IP address.
  - ⇥ Manual entry of your encryption key (for encrypted network connections only)
- Wired (Ethernet) network connection with automatic IP address (see 'Wired connection with automatic IP address' on page 30)
  - ⇥ This setup requires the following:
  - ⇥ A cable modem or PC with broadband Internet access and a free Ethernet port
  - ⇥ An Ethernet cable (sold separately).
- Wired (Ethernet) network connection with static IP address (see 'Wired connection with static IP address' on page 31)
  - ⇥ This setup requires the following:
  - ⇥ A cable modem or PC with broadband Internet access and a free Ethernet port
  - ⇥ An Ethernet cable (sold separately).
  - ⇥ Manual entry of your IP address.

Wireless connection with automatic IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ⇆ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

    The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wireless setup with automatic IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.

1 Ensure that your network name and network password or encryption key are available.

2 Turn on your wireless access point or wireless router with broadband Internet access.

3 Turn on the NP2900.

4 Press **SETTINGS**, to go to the Settings menu.

5 Select **[Wireless (WiFi)]** to start the network setup process.
  » The NP2900 searches for networks.

6 Select your network from the list of found networks and confirm.
  - Enter the encryption key (if required) and confirm.
  - The NP2900 acquires the automatic IP address.
  - The NP2900 shows the confirmation for the connection to the network.

- The NP2900 shows the prompt for the connection to the Internet.

7 Select **[Yes]** to connect to the Internet.
  » The NP2900 shows the confirmation for the connection to the Internet.

Note

- You can enter more than one encryption key. In this case, the NP2900 prompts you to select the default encryption key.

Wireless connection with static IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ↪ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

    The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

    The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wireless setup with static IP address. You can also follow the onscreen prompts for advanced

configurations that are not described in this manual.

1 Ensure that your network name and network password or encryption key are available.

2 Turn on your wireless access point or wireless router with broadband Internet access.

3 Turn on the NP2900.

4 Press **SETTINGS**, to go to the Settings menu.

5 Select **[Wireless (WiFi)]** to start the network setup process.
  ↳ The NP2900 searches for networks.

6 Select your network from the list of found networks and confirm.
  • Enter the encryption key (if required) and confirm.
  • The NP2900 tries to acquire an automatic IP address.

7 Press **BACK** ↰ to enter your IP address manually.

8 Enter your static IP address and confirm.
  ↳ The NP2900 shows the confirmation for the connection to the network.
  ↳ The NP2900 shows the prompt for the connection to the Internet.

9 Select **[Yes]** to connect to the Internet.
  ↳ The NP2900 shows the confirmation for the connection to the Internet.

Note

• You can enter more than one encryption key. In this case, the NP2900 prompts you to select the default encryption key.

Wired connection with automatic IP address

This is how to navigate and select with the remote control:

• Press ▲ or ▼ to select a menu option.

• Press **OK** to confirm a selection.
• Press **BACK** ↰ to go back to the previous screen.
• Press **HOME** to go to the Home menu.

The alphanumeric buttons of the remote control are multi-function buttons:

• To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
• To cycle through the alphanumeric characters that are available, press a button repeatedly.
• To delete the last character entry from the display, press **CLEAR**.
  • To delete the whole last line entry from the display, press and hold **CLEAR**.

The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wired setup with automatic IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.

1 Connect an Ethernet cable (sold separately) to the ETHERNET jack of the NP2900 and the Ethernet jack of the wired router.

2 Ensure that the wired router is turned on and has broadband Internet access.

3 Turn on the NP2900.

4 Press **SETTINGS**, to go to the Settings menu.

5 Select **[Wired (Ethernet)]** to start the network setup process.
  ↳ The NP2900 acquires the automatic IP address.
  ↳ The NP2900 shows the confirmation for the connection to the network.

» The NP2900 shows the prompt for the connection to the Internet.

6 Select **[Yes]** to connect to the Internet.
» The NP2900 shows the confirmation for the connection to the Internet.

Wired connection with static IP address

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ➲ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

The alphanumeric buttons of the remote control are multi-function buttons:

- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

    The onscreen display guides you through the process of connecting the NP2900 to your home network and the Internet. This section describes the typical wired setup with static IP address. You can also follow the onscreen prompts for advanced configurations that are not described in this manual.

1 Connect an Ethernet cable (sold separately) to the ETHERNET jack of the NP2900 and the Ethernet jack of the wired router.

2 Ensure that the wired router is turned on and has broadband Internet access.

3 Turn on the NP2900.

4 Press **SETTINGS**, to go to the Settings menu.

5 Select **[Wired (Ethernet)]** to start the network setup process.
» The NP2900 tries to acquire an automatic IP address.
» Press **BACK** ➲ to enter your IP address manually.

6 Enter your static IP address and confirm.
» The NP2900 shows the confirmation for the connection to the network.
» The NP2900 shows the prompt for the connection to the Internet.

7 Select **[Yes]** to connect to the Internet.
» The NP2900 shows the confirmation for the connection to the Internet.

Location and time zone

This is how you can change the location and time zone settings of the NP2900:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Location and time zone]**.

3 Select a menu option and confirm.
» The NP2900 applies the new location and time zone settings.
» Press **BACK** ➲ to go back to the previous screen.
» Press **HOME** to go to the Home menu.

Language

This is how you can change the language of the display:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Language]**.

3 Select a menu option and confirm.
  » The display language changes to the new setting.
  » Press **BACK** ↰ to go back to the previous screen.
  » Press **HOME** to go to the Home menu.

Register the NP2900

Registration of the NP2900 requires a valid email address and mailbox access.
This is how to navigate and select with the remote control:
- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ↰ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

  The alphanumeric buttons of the remote control are multi-function buttons:
- To select a number or an alphanumeric character, press a button once or more until you see the number or alphabetic character in the display of the NP2900.
- To cycle through the alphanumeric characters that are available, press a button repeatedly.
- To delete the last character entry from the display, press **CLEAR**.
  - To delete the whole last line entry from the display, press and hold **CLEAR**.

  This is how you can register the NP2900 with Philips:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Register now]**.

  » The item prompts you to enter a valid email address.

3 Enter your email address and confirm.
  » The item shows a confirmation and prompts you to check the inbox of your email account.

Unregister the NP2900

This is how to navigate and select with the remote control:
- Press ▲ or ▼ to select a menu option.
- Press **OK** to confirm a selection.
- Press **BACK** ↰ to go back to the previous screen.
- Press **HOME** to go to the Home menu.

  This is how you can unregister the NP2900 with Philips:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Unregister]**.
  » The NP2900 prompts you to confirm.

3 Confirm to unregister.
  » The item shows a confirmation that the NP2900 is unregistered with your email account.

Registration information

This is how you can check the registration status of the NP2900:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Registration information]**.
  » The NP2900 shows the registration information.
  » Press **BACK** ↰ to go back to the previous screen.
  » Press **HOME** to go to the Home menu.

Check for SW upgrades

This is how to navigate and select with the remote control:

- Press ▲ or ▼ to select a menu option.
- Press ▶ to confirm a selection.
  - Press **OK** to confirm an alphanumeric entry.
- Press **HOME** to go to the Home menu.

This is how you can check for software updates for the NP2900:

1 Ensure that the NP2900 is connected to the Internet.

2 Press **SETTINGS**, to go to the Settings menu.

3 Select **[Check for software upgrades]** and confirm.
  » The NP2900 checks for a new software version.

4 Read the information shown in the display of the NP2900.

New software is available for the NP2900:

1 Follow the instructions shown in the display to complete the update.
  » The NP2900 prompts you to accept the conditions and download of the software.
  » The NP2900 restarts after the update.

Note

- Mandatory updates do not require your acceptance or confirmation.

The NP2900 already has the latest software installed:

- Press **BACK** ⮌ to go back to the previous screen.
  - Press **HOME** to go to the Home menu.

Information

This is how you can find information about the NP2900:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Information]**.

3 Press **OK** to confirm.
  » The device information is shown on the display of the NP2900.
  » Press **BACK** ⮌ to go back to the previous screen.
  » Press **HOME** to go to the Home menu.

Demo mode

You can access the demo mode in the Settings menu:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Demo mode]**.
  » The demo plays continuously until you exit the demo play.

3 To exit the demo play, press ⏻.

Tip

- You can start the demo play more quickly with the **DEMO** button on the remote control.

Call center numbers

This is how you can find the call center numbers:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Call centre numbers]**.

3 Press **OK** to confirm.

» The call center numbers are shown on the display of the NP2900.

» Press **BACK** ⤺ to go back to the previous screen.

» Press **HOME** to go to the Home menu.

Restore factory settings

⚠️ **Caution**

- The following procedure erases all custom settings and resets the NP2900 to the original status as set by the factory.

This is how to restore the factory settings of the NP2900:

1 Press **SETTINGS**, to go to the Settings menu.

2 Select **[Restore factory settings]**.

3 Select **[Yes]** to reconfirm.
   » The NP2900 restarts.
   » The factory settings of the NP2900 are restored.

10 Maintenance

This chapter tells you how to care for your NP2900.

Cleaning

> **Note**
>
> • Avoid moisture and abrasion.

1 Clean the NP2900 only with a soft dry cloth.

11 Technical data

General

AC Power	Voltage information is printed on the back or the underside of the NP2900.
DC Power	12 V / 3.5 A
Dimensions (w × h × d)	346.5 × 99 × 69 mm
Weight (net)	Main unit: ~ 1,48 kg

Power consumption

On	< 40 W
Standby (active)	< 4 W
ECO (passive) standby	< 1 W

Audio output

SPDIF	1× chinch (coax), 0.5 V, 75 Ω
Headphones	1× 3.5 mm jack 30 - 18,000 Hz 16 - 150 Ω
Signal to noise ratio (headphones)	typically 85 dBA (IEC)
Distortion (line out / headphones)	< 0.15 %

Audio input

Aux in (line in)	2× cinch
Input sensitivity	500 mV
Input impedance	> 10 kΩ

Loudspeakers

Power handling	Front speakers: 10W (RMS) / 15 W (MPO) Side speakers: 6 W (RMS) / 9 W (MPO)
Impedance	Front speakers: 8 Ω Side speakers: 12 Ω
Sensitivity	Front speakers: 80 dB / 1 m / W Side speakers: 83 dB / 0.5 m / W
Dimensions	Front speakers: 2.56 inches Side speakers: 1.56 inches
Frequency response	Front speakers: 50 Hz - 16 kHz Side speakers: 500 Hz - 16 kHz

Wireless

Wireless standard	802.11g, backwards compatible to 802.11b
Wireless security	WEP (64 or 128 bit), WPA/WPA2 (8-63 characters)
Frequency range	2412 - 2462 MHz (CH1-CH11) (for /79, /37, /55, /97) 2412 - 2472 MHz (CH1-CH13) (for /12, /05)
Antenna	2× internal, diversity mode enabled

Wired (LAN / Ethernet)

Wired standard	802.3 / 802.3 u
Speed	10 / 100 MBit/s
Mode	half / full duplex
Crossover detection (Auto MDIX)	Yes (Auto MDIX)

Decoding capabilities

MP3	8 - 320 kbps (CBR / VBR)
WMA	32 - 192 kbps (CBR / VBR)
AAC (M4A)	16 - 320 kbps (CBR / VBR)
PCM	1× (1.4 Mbps)
FLAC	Supported
Ogg Vorbis	Supported

Playlist support

*.m3u, *.wpl	Supported
iTunes	Supported (via by-packed TwonkyMedia™)

Display / Clock

Resolution	Dot matrix 320 × 240 dtos (QVGA) Color TFT
Size	3.5 inches
Backlight	On / Off / Dimmed
Time / Date display	Supported
Automatic time sync via Internet (NPT)	Supported
Sleep timer	Supported
Key sound feedback	Clicker (internal)

Specifications and external appearance are subject to change without notice.

Supported audio file formats

The NP2900 supports the following audio file formats:
- MP3 (8-320kbps and VBR)
- WMA (up to 192kbps)
- non DRM protected AAC (M4A) (16-320 kbps and VBR16)
- PCM (1.4 Mbps)
- FLAC
- Ogg Vorbis

Note

- The display of the NP2900 supports directories with nesting up to a maximum of 8 levels.

Supplied accessories

- Remote control
- 2 AAA batteries
- CD-Rom
- AC power adapter with cable
- Wall mounting bracket

Computer connection requirements

The minimum requirements for computer connections are:
- Windows 2000 SP4 (or above) / XP SP2 / Vista / Mac
- Pentium III 500MHz processor or higher
- 256MB RAM
- CD-ROM drive
- Adapter
  - Ethernet enabled (for wired connection)
  - Wireless network 802.11 b/g (for wireless connection)
- 500MB free hard disk space

12 Troubleshooting

I cannot hear any sound or the sound is poor, what do I do?

- Press **+ VOL -** to increase the volume.
- Press the **MUTE** button again to reactivate the sound output.

Is there a maximum distance of transmission between a wireless router and the NP2900 for effective streaming?

Yes. The maximum distance of Wi-Fi transmission is 250m measured in open spaces. However, in a home environment, where solid obstacles such as walls and doors are present, the effective transmission distance is reduced to 50-100m. Reposition the devices if you experience transmission problems.

I have not received any registration email from ConsumerCare@Philips.com.

- Check that the email address that is entered in the user registration section is valid and spelled correctly.
- Check that the PC has an active Internet connection.
- The Internet server may be busy, try again later.
- Check if the email was redirected to the spam folder.

How do I avoid Wi-Fi interferences from other devices that operate in the same (2.4GHz) frequency spectrum, such as Dect phones or bluetooth devices?

- Move the NP2900 at least 3m away from such devices.
- Use a WEP/WPA encryption key when you create the wireless connection your PC / home network.
- Change the operating channel on the interfering devices.
- Turn the devices in different directions to minimize interference.

13 Glossary

A

AAC (Advanced Audio Coding)

An audio compression scheme defined as part of the MPEG-2 standard (also known as MPEG-2 AAC or MPEG-2 NBC, or Not Backwards Compatible). It offers better sound and a compression ratio that is superior by roughly 30 percent compared to the MPEG-1 MP3 format.

AC (alternating current)

An alternating current is an electrical current whose magnitude and direction vary cyclically, as opposed to DC (direct current), whose direction remains constant. The usual waveform of an AC power circuit is a sine wave, as this results in the most efficient transmission of energy. However certain applications use different waveforms, such as triangular or square waves.

Album art

Album art is a feature of the NP2900 that displays the artwork (cover picture) of a music album. This display enables the user to quickly identify a music album. The artwork files for music albums can be downloaded from the Internet.

Amplifier

A device, either a single stage or a large scale circuit with multiple stages for creating gain, i.e. it makes small signals larger.

Antenna

A device, such as a rod or wire, which picks up a received radio frequency signal or radiates a transmitted RF signal.

Audio output

High-level (speaker) or line-level (RCA) signals sent from one system component to another; or the high-level signal from an amplifier to the system speakers.

AUX

Auxiliary input that allows you to connect portable audio devices.

B

Bass

The lowest three octaves of the audio band. Low bass is the bottom octave (20-40Hz), mid-bass is the middle octave (40-80Hz), and upper bass is the 80-160Hz octave.

Bit / bits

A bit is a binary digit, taking a value of either 0 or 1. For example, the number 10010111 is 8 bits long.

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

CBR (constant bit rate)

With CBR the encoder spends the same amount of bits on each frame, regardless of how much it may really need. Disadvantage of CBR: Bits are wasted in case of absolute blackness of a picture or complete silence in an audio frame. And pictures or audio frames with a lot of elements may need those bits.

CD (Compact Disc)

Format developed by Phillips, Sony, and Pioneer for conveying music and data. CDs record information by deforming the inner metal foil on the disc with tiny micro pits burned in by a laser.

CDDB

A centralized database of CDs, CD tracks, and artists on the Web, now known as Gracenote. The audio player or burner program can log on to CDDB. It uploads the ID of the CD being

played, and then downloads the title, artist, and track list.

Coaxial
A single copper conductor, surrounded with a layer of insulation, covered by a surrounding copper shield and finally, an insulating jacket. An unbalanced transmission line with constant impedance. In audio, this type is commonly used for low level, line signals terminated in RCA connectors.

Compression
In audio terms, this is a process of temporarily or permanently reducing audio data for more efficient storage or transmission. A temporary reduction in file size is called 'non-lossy' compression, and no information is lost. A permanent reduction in file size (such as with MP3 files) is called 'lossy' compression, and involves discarding unnecessary information which is irretrievably lost.

D

DC (direct current)
Direct current or continuous current is the constant flow of electric charge. This is typically in a conductor such as a wire. In direct current, the electric charges flow in the same direction, distinguishing it from AC (alternating current).

Decibel (dB)
A unit of measure used to express relative difference in power or intensity of sound.

DHCP
DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses to devices on a network.

Digital
A method to encode information using a binary code of 0s and 1s. Many wireless phones and networks use digital technology.

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.

Duplex (half/full)
Full duplex is the ability to send and receive data simultaneously. Duplex is synonymous with full duplex. Example: when a modem operates in full-duplex mode, it can transmit data in two directions simultaneously. In half-duplex mode it can transmit data in two directions, but not simultaneously.

E

Encryption key
An encryption key is an alphanumeric series that enables data to be encrypted and then decrypted so it can be safely shared among members of a network.

F

Frequency
The property or condition of occurring at frequent intervals. In sound, this simply refers to the regular occurrence of compression and rarification of air that we experience as sound.

Frequency Response
Is the range of frequencies that a speaker reproduces, lowest frequency to the highest. While the optimal normal is 20-20,000 Hz (Hertz), the range of human hearing for individuals is often much more restricted. A good full-range speaker system however, reproduces as much of this range as possible to cover all variations. Individual drivers are limited to reproduce only that part of the spectrum for which they were made, so their response is limited, but still a necessary point to consider when designing a complete sound system.

FullSound
FullSound™ is an innovative technology designed by Philips. FullSound™ faithfully restores sonic details to compressed music,

enhancing it to provide a full sound experience without any distortion.

H

Hz (Hertz)
Cycles per second, named after Heinrich Hertz.

I

Impedance
The resistance to the flow of an electric current in a circuit. This is effectively the electrical load that a loudspeaker presents to the amplifier which drives it and is measured in ohms.

Input sensitivity
SPL (sound pressure level) a speaker produces, given one watt of power, measured from a one-meter distance at a typical input frequency (usually 1kHz unless otherwise noted on the speaker).

Interface
A device or protocol which facilitates the linking of any two devices or systems; or when used as a verb ('to interface'), the process of linking.

IP address
An IP (Internet Protocol) address is a unique computer address that enables electronic devices to communicate with and identify each other.

K

Kbps
Kilobits per second. A digital-data-rate measurement system which is often used with highly compressed formats such as AAC, DAB, MP3 etc. The higher the amount, the better the quality generally is.

Kilo Hertz (kHz)
1000Hz or 1000 cycles per second.

L

LCD (Liquid Crystal Display)
Probably the most common way to show visual information on non-computer electronic equipment.

LivingSound
LivingSound™ is a sound processing algorithm provided by Philips that offers spatial enhancements and the listener perceives the sound as though the loudspeakers were located a greater than actual distance apart from one another.

Lossless compression
A system for reducing the number of data bits (density) in a musical signal without corrupting the original.

M

M4A
The audio file format used by Apple in their iTunes Music Store often appears on your system with the '.m4a' filename extension. M4A can produce better audio quality than MP3 using less physical space for the files.

MHz (Mega Hertz)
One million cycles per second.

Mono (monaural)
The operation of an amplifier in one channel for both input and output. Can refer to an amplifier with only one channel of amplification or operating in bridged mode. For low-frequency amplification applications, it provides better phase coherence and less distortion than stereo operation.

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.

Mute

A control found on receivers, and some mixers or signal processing units that silences (mutes) a signal path, or output.

O

Ohm

Measure of resistance to current (impedance). The lower the impedance of a speaker, the harder it is to drive.

P

PCM (Pulse Code Modulation)

Pioneering form of digital recording.

R

RF (radio frequency)

An alternating current or voltage with a frequency (or carrier wave) above about 100kHz. It is called radio frequency because these frequencies have a capacity to be radiated as electromagnetic waves by radio (and television) stations.

Rhapsody®

Rhapsody® is an on-line music service that offers streaming on-demand access to its library of digital music.

S

S/PDIF (SPDIF) (Sony/Philips Digital Interface)

A standard audio-file transfer-format that was developed jointly by Sony and Philips. S/PDIF allows the transfer of digital audio signals from one device to another, without the need to convert first to analog. This prevents the quality of the digital signal degrading during transfer to analog.

Sensitivity

Volume that a speaker offers for a specific voltage input, expressed in decibels per watt (dB/W).

Shuffle

A feature that plays audio files (tracks) in random order.

Signal to noise ratio

Represents the difference between the level of the audio signal, and any interference. The larger the figure, the purer the sound.

SPL (sound pressure level)

An acoustic measurement of sound energy. 1 dB SPL is the smallest increment in sound level to which the average human is sensitive. Theoretically, 0 dB SPL is the threshold of human hearing while approximately 120 dB is the threshold of pain.

Stereo

Literally means solid. Usually taken to refer to two channel stereo, though developments in digital audio facilitate multichannel stereo.

Streaming

A technique for transferring data such that it can be processed as a steady and continuous stream. Streaming technologies are often used on the Internet because many users do not have fast enough access to download large multimedia files quickly, so the client browser or plug-in can start displaying the data before the entire file has been transmitted.

SuperPlay

SuperPlay™ is a special feature of the NP2900, which enables the listener to play all the music under a top-level library category, such as artists or albums, without having to select playlist items.

T

Thumbnail

A thumbnail is reduced-size versions of a picture that is used to make it easier to recognize an them. Thumbnails serve the same role for images as a normal text index does for words.

U

UPnP (Universal Plug and Play)

Universal Plug and Play is a networking architecture developed by a consortium of companies to ensure easy connectivity between products from different vendors. UPnP devices should be able to connect to a network automatically, handling identification and other processes on the fly. The standards developed by the UPnP Forum are media-, platform-, and device-independent.

V

VBR (variable bit rate)

With VBR, the encoder takes as much bits as it needs. So black pictures get few bits and complex pictures get as much as they need. While this provides the best quality the final size cannot be predicted at all.

Volume

Volume is the most common word used to specify the control of relative loudness of sounds. It also pertains to the function on many electronic devices that is used to control the loudness.

W

W (wattage)

A measurement of power. In speakers, wattage is a term that indicates power-handling characteristics in dealing with electrical voltage inputs from the amplifier.

WAP (Wireless Application Protocol)

Global protocol used in some wireless devices that allows the user to view and interact with data services. Generally used as a means to view Internet web pages using the limited transmission capacity and small display screens of portable wireless devices.

WAV

A format for sound files developed jointly by Microsoft and IBM. Built into Windows 95 to XP, which made it the de facto standard for sound on PCs. WAV sound files end with a '.wav' extension and works with nearly all Windows applications that support sound.

WEP (Wired Equivalent Privacy)

All 802.11b (Wi-Fi / wireless) networks use WEP as their basic security protocol. WEP secures data transmissions using 64-bit or 128-bit encryption; however, it does not offer complete security and is usually used in conjunction with other security measures such as EAP.

Wi-Fi

Wi-Fi (Wireless Fidelity) is a wireless technology brand owned by the Wi-Fi Alliance intended to improve the interoperability of wireless local area network products based on the IEEE 802.11 standards. Common applications for Wi-Fi include Internet and VoIP phone access, gaming, and network connectivity for consumer electronics such as televisions, DVD players, and digital cameras.

Wireless

Telecommunications using electromagnetic waves rather than wires or cable to transmit information. Wireless communication can be used for free-ranging mobile systems such as cell phones and global positioning systems (GPS), which use satellite technology. Wireless systems can also be fixed, such as LANs that provide wireless communications within a limited area (such as an office), or wireless peripherals such as mice and keyboards.

WMA (Windows Media Audio)

An audio format owned by Microsoft, is a part of Microsoft Windows Media technology. Includes Microsoft Digital Rights Management tools, Windows Media Video encoding technology, and Windows Media Audio encoding technology.

WPA / WPA2 (Wi-Fi Protected Access)

A Wi-Fi standard that was designed to improve upon the security features of WEP. The technology is designed to work with existing

Wi-Fi products that have been enabled with WEP (i.e. as a software upgrade to existing hardware), but the technology includes two improvements over WEP.

Contact information

Canada (Francophone) 1-800-661-6162

United States and Canada (English and Spanish speaking) 1-888-744-5477

Argentina	(54-11) 4544-2047
Australia	1300-363-391
Austria	810000205 (€0.20/min)
Belgium	78250145 (€0.16/min)
Brazil	0800-701-02-03
Bulgaria	2-976-9996
Chile	600-744-5477 (600-PHILIPS)
China	4008-800-008 (local tariff)
Colombia	01-800-700-7445
Czech Republic	800142840
Denmark	3525-8759
Finland	09-2311-3415
France	0821 611655 (€0.23/min)
Germany	01803 386 852 (€0.14/min)
Greece	0-0800-3122-1280
Hong Kong	852-2619-9663
Hungary	680018189
India	1901-180-1111
Ireland	01-601-1777
Israel	9-9600-900
Italy	840320086 (€0.25/minute)
Japan	0570-07-6666
Korea	080-600-6600
Luxembourg	40 6661 5644
Malaysia	1800-880-180
Mexico	01-800-504-6200
Netherlands	0900-8407 (€0.20/min)
New Zealand	0800-658-224
Norway	2270-8111
Pakistan	051-580-902-3
Peru	0800-00100
Philippines	632-8164416
Poland	223491504
Portugal	2-1359-1442
Romania	1-203-2060
Russia Federation	495-961-1111; (8-800-200-0880)
Singapore	65-6882-3999
Slovakia	0800-004537
South Africa	(011) 471-5194
Spain	902-888-784 (€0.10/min)
Sweden	08-5792-9100
Switzerland	0844-800-544
Taiwan	0800-231-099
Thailand	66-2-652-8652
Turkey	0800-261-3302
Ukraine	044-254-2392
United Kingdom	0870 900 9070 (£0.15/min)
Uruguay	(598-2) 619-6666
Venezuela	0800-100-4888

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