Always there to help you

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

Question? Contact Philips

AW1000



User manual

PHILIPS

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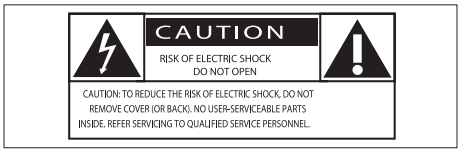
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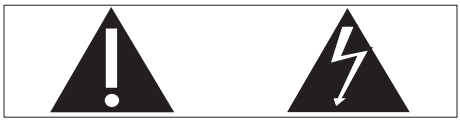
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1 Important

Safety

Information for Europe:
Know these safety symbols





The 'exclamation mark' calls attention to features for which you should carefully read the supplied literature to prevent operating and maintenance problems.
The 'lightening bolt' symbol indicates uninsulated components within the product that can cause an electric shock.
To reduce the risk of fire or electric shock, do not expose the product to rain or moisture and do not place any objects filled with liquids, such as vases, on the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not remove the casing of this product.
9. Do not expose the product to dripping / splashing water, rain or high humidity.
10. Keep this product away from direct sunlight, naked flames or heat.
11. Do not install near any heat sources such as radiators, heat registers, stoves, or other electrical equipment (including amplifiers).
12. Do not place any other electrical equipment on the product.
13. Do not place any sources of danger on the product (e.g. objects containing liquids, burning candles).
14. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

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.
- Ensure that you always have easy access to the power cord, plug or adaptor to disconnect this apparatus from the power.

Risk of overheating! Never install this apparatus in a confined space. Always leave a space of at least four inches around this apparatus for ventilation. Ensure curtains or other objects never cover the ventilation slots on this apparatus.

Notice

CE 0560

Hereby, Gibson Innovations declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. You can find the Declaration of Conformity on www.philips.com/support.

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

Philips and the Philips' Shield Emblem are registered trademarks of Koninklijke Philips N.V. and are used by Gibson Innovations Limited under license from Koninklijke Philips N.V."

Specifications are subject to change without notice. Gibson reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.



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.

Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (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.

Android is a trademark of Google Inc. Use of this trademark is subject to Google permissions.

Class II equipment symbol:



CLASS II apparatus with double insulation, and no protective earth provided.

Note

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

2 Your Wireless Hi-Fi Link Device

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.
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. _____

Introduction

With this wireless Hi-Fi link device connected to an existing audio system, you can:

- Listen to music sent from a DLNA / UPnP compatible APP.
- listen to Internet radio stations or online music services.
- play music from other audio devices through the **AUX IN (L/R)** sockets.

What's in the box

Check and identify the contents of your package:

- Wireless Hi-Fi link device with built-in Wi-Fi
- 1 x AC power adaptor
- Quick start guide
- Safety sheet

What else you need

Note

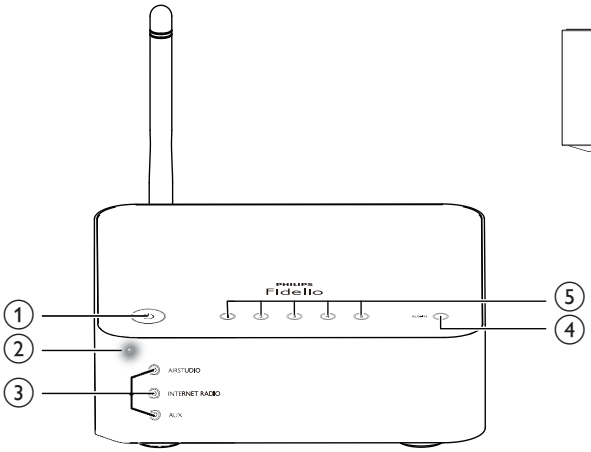
- To enjoy music, connect AW1000 to an existing audio system through the **LINE OUT L/R**, **OPTICAL OUT** or **DIGITAL OUT** socket.

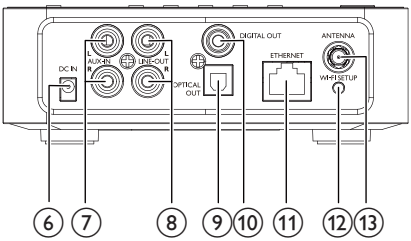
To stream audio wirelessly to AW1000, you need:

- a certified Wi-Fi router
- an iOS or Android device, such as an iPod touch/iPhone/iPad; or an Android phone or tablet
- the **Philips AirStudio+ Lite** app available on Apple **App Store** (for iOS devices) or Google **Play Store** (for Android devices)

Connect AW1000 to the same local network as your iOS/Android device through the Wi-Fi router.

Overview of the main unit





① ⏻
- Switch the device on or to normal/Eco standby mode.

② Power/status indicator
- Show the current status of the device.

③ Source indicators
- Light up when the corresponding source is selected.

④ SOURCE button
- Press repeatedly to select an audio source.

⑤ Numeric keys (1 to 5)
- Select an Internet radio station.

⑥ DC IN socket
- Connect the power adaptor.

⑦ AUX IN L/R sockets
- Connect an external audio device through RCA audio cables (red/white; not supplied).

⑧ LINE OUT L/R sockets
- Connect AW1000 to an existing audio system through RCA audio cables (red/white; not supplied).

⑨ OPTICAL OUT socket
- Connect AW1000 to an existing audio system through an optical cable (not supplied).

⑩ DIGITAL OUT socket
- Connect AW1000 to an existing audio system through a single RCA audio cable (not supplied).

⑪ ETHERNET socket
- (Optional) Connect to a wireless router through an Ethernet cable (not supplied).

⑫ WI-FI SETUP button
- Connect the device to a Wi-Fi network.

⑬ ANTENNA socket
- Connect the supplied Wi-Fi antenna.

3 Prepare

Always follow the instructions in this chapter in sequence.

Download Philips AirStudio+ Lite to your smartphone or tablets

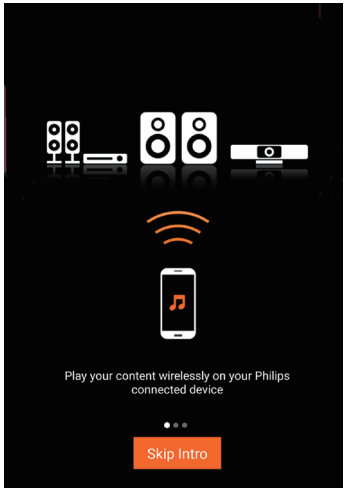
1 (For iPod touch/iPhone/iPad users) Install **Philips AirStudio+ Lite** from Apple **App Store**, and then run the app.



(For users of Android smartphones or tablets) Install **Philips AirStudio+ Lite** from Google **Play Store** and then run the app.



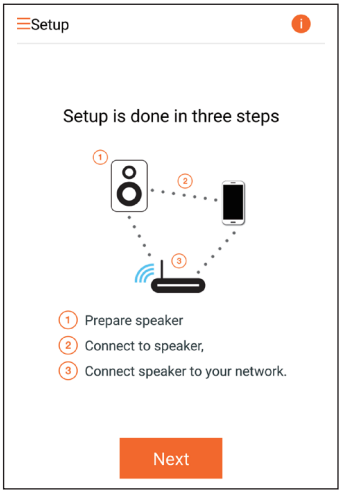
2 Flick right to view the introduction pages and then go to the initial **Setup** page, or tap **Skip intro** to enter the initial **Setup** page directly.



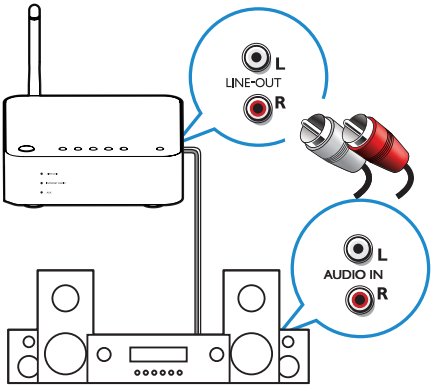
3 On the initial **Setup** page, tap **Setup a new speaker**.



4 Read the general setup steps, then tap **Next**.



Connect to an existing audio system



Connect through the LINE OUT L/R sockets:

1 Connect a pair of RCA audio cables (red/white; not supplied) to:
- the **LINE OUT L/R** sockets on the back of the device.
- the audio input sockets on your existing audio system.

2 Use controls of your existing audio system to select the audio source that corresponds to AW1000.

Connect through the OPTICAL OUT or DIGITAL OUT socket:

1 Connect an optical or single RCA audio cable (not supplied) to:
- the **OPTICAL OUT** or **DIGITAL OUT** socket on the back of the device.
- the corresponding audio output socket on your existing audio system.

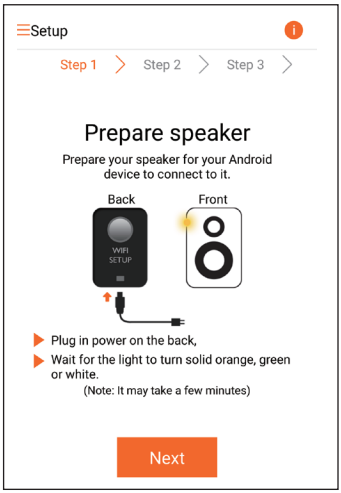
2 Use controls of your existing audio system to select the audio source that corresponds to AW1000.

Connect power and switch on

Caution

- Risk of product damage! Make sure that the power supply voltage matches the voltage printed on the bottom of the device.
- Risk of electric shock! When you unplug the AC cord, always pull the plug from the socket. Never pull the cord.
- Before you connect the AC cord, make sure that you have completed all the other connections.

1 Read the power connection instructions on the app.

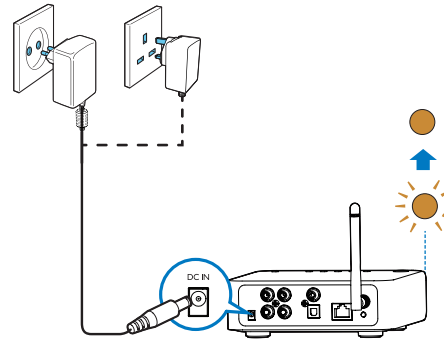


2 Connect the AC power cord to
- the **DC IN** socket on the back of the device.
- the wall power socket.

↳ The device switches on automatically.

↳ The power/status indicator blinks amber during boot-up.

↳ After a while, for first-time setup, the power/status indicator turns solid amber.



3 Tap **Next** on the app screen to continue.

Switch between normal and Eco power standby mode

- To switch the device to normal standby mode, briefly press ⏻.
  ↳ The power/status indicator turns green.
- To switch the device to Eco power standby mode, press and hold ⏻ for less than 3 seconds and then release the button.
  ↳ The power/status indicator turns amber for a short while and then turns off.
- To switch the device on from normal or Eco power standby mode, briefly press ⏻ again.

	Operation	LED status
On -> Normal standby	Briefly press ⏻.	Amber/white -> Green
On/Normal standby -> Eco power standby	Press and hold ⏻ for less than 3 seconds and then release the button.	Amber/white or green -> Off
Normal standby/ Eco power standby -> On	Briefly press ⏻.	Green/Off -> Amber/white

4 Connect AW1000 to your home Wi-Fi network

To connect AW1000 to your existing home Wi-Fi network, you need to apply your home Wi-Fi settings to AW1000.
Choose your best setup method based on the preconditions listed below.

Platform of your mobile device	Type of your Wi-Fi router	Other requirement	Setup method
iOS	Non-WPS	No	Choose option 1 (see 'Option 1: Set up wireless connection to a non-WPS router through an iOS device' on page 10).
Android	Non-WPS	No	Choose option 2 (see 'Option 2: Set up through a non-WPS Wi-Fi router and Android device' on page 12).
Either iOS or Android	WPS	No	Choose option 3 (see 'Option 3: Set up wireless connection to a WPS router' on page 14).
Either iOS or Android	Either non-WPS or WPS	You have an Ethernet cable.	Choose option 4 (see 'Option 4: Set up wired connection through an Ethernet cable' on page 16).

Before connection of AW1000 to your home Wi-Fi network, make sure that:

1. **your Wi-Fi router is powered on and working properly.**
2. **AW1000 has been powered on and booted up successfully (see 'Connect power and switch on' on page 8).**
3. **you have jotted down your Wi-Fi password.**

Once connected successfully, AW1000 will remember your home Wi-Fi settings. Then you can play music or listen to Internet radio via **Philips AirStudio+ Lite** whenever AW1000 is powered on and connected to your home Wi-Fi network automatically.

Option 1: Set up wireless connection to a non-WPS router through an iOS device

1 Before setup, make sure that your iOS device is connected to your home Wi-Fi network.

2 Select **Standard SETUP** and tap **Next**.



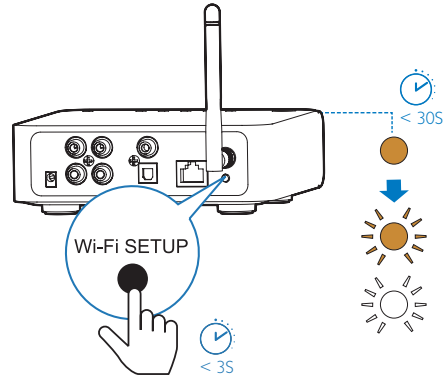
3 Read the Wi-Fi setup instructions on the app.



4 As instructed, briefly press **WI-FI SETUP** on the back of AW1000.

↳ The power/status indicator starts to blink amber and white alternately.

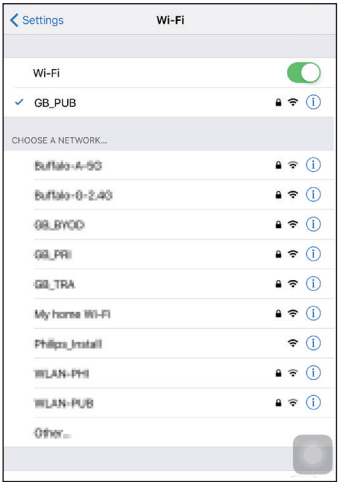
↳ A new Wi-Fi network created by AW1000 will appear, with the network name (SSID) of **Philips_Install**.



5 Tap **Next** on the above app screen, and then read how to proceed with network setup.

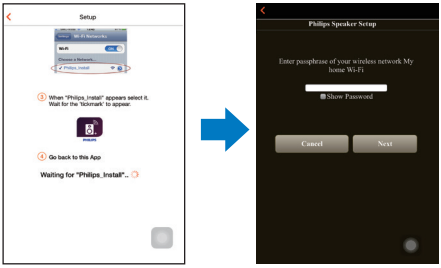


6 As instructed, exit the app, and then select **Philips_Install** from the list of available Wi-Fi networks.

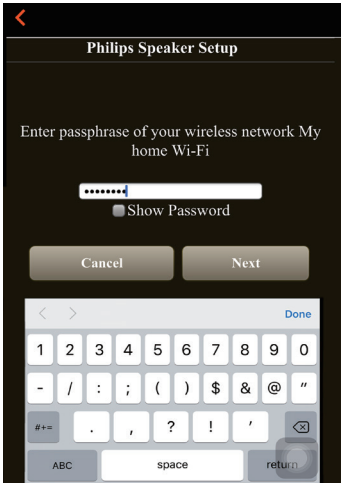


7 Make sure that your iOS device is connected to **Philips_Install**, and then go back to **Philips AirStudio+ Lite**.

8 Wait until the password input box appears.

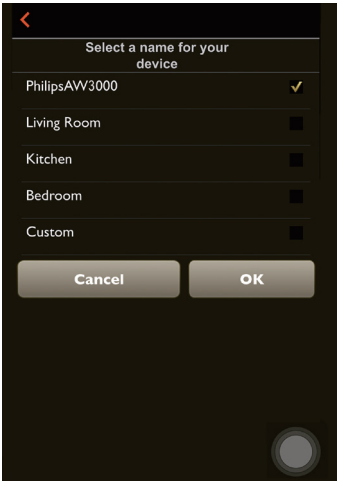


9 Enter the password of your home Wi-Fi network, tap **Done** to finish input, and then tap **Next**.



*** If your Wi-Fi password contains such special characters as #/:/;/', you need to change your password.**

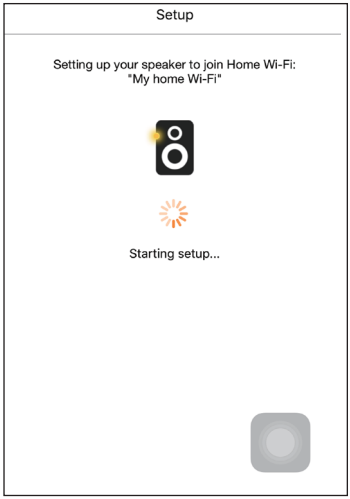
10 Name your link device as you like, and then tap **OK** to connect AW1000 to your home Wi-Fi network.



11 Wait until the power/status indicator on AW1000 turns solid white.

↳ The following app screen appears.

↳ AW1000 is connected to your home Wi-Fi network successfully.



Tip

- After successful network setup, you can tap **Rock n' Roll** on the above app screen to get ready for music play directly. For more details, go to the 'Play' section (see 'Play' on page 17).

Option 2: Set up through a non-WPS Wi-Fi router and Android device

1 Before setup, make sure that your Android device is connected to your home Wi-Fi network.

2 Select **Standard SETUP** and tap **Next**.



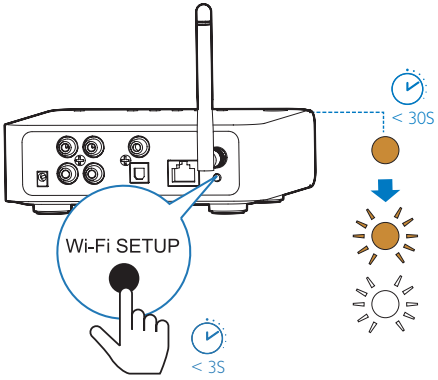
3 Read the Wi-Fi setup instructions on the app.



4 As instructed, briefly press **WI-FI SETUP** on the back of AW1000.

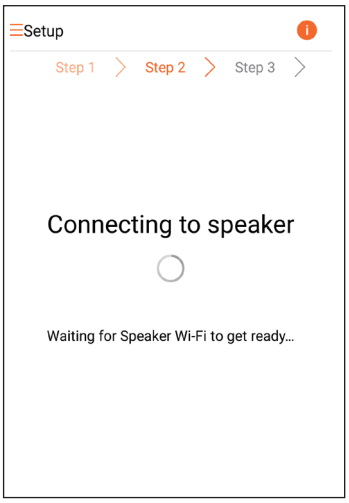
↳ The power/status indicator starts to blink amber and white alternately.

↳ A new Wi-Fi network created by AW1000 will appear, with the network name (SSID) of **Philips_Install**.

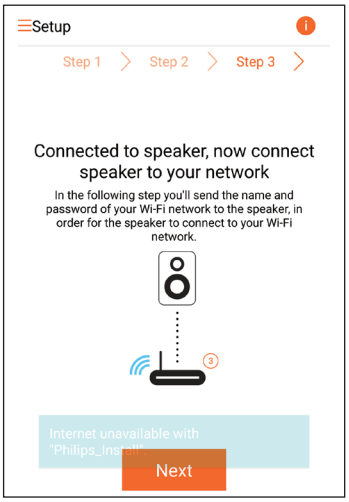


5 Tap **Next** on the above app screen.

↳ Your Android device starts to connect with the new Wi-Fi network created by AW1000 automatically.



6 Wait until the link device is found.

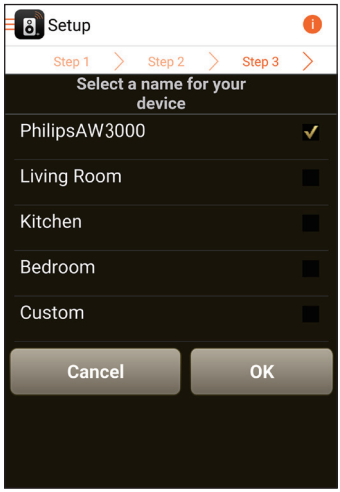


7 Enter the password of your home Wi-Fi network, and then tap **Next**.



*** If your Wi-Fi password contains such special characters as #/:/;/', you need to change your password.**

8 Name your link device as you like, and then tap **OK** to connect AW1000 to your home Wi-Fi network.



9 Wait until the power/status indicator on AW1000 turns solid white.

↪ AW1000 is connected to your home Wi-Fi network successfully.

Note

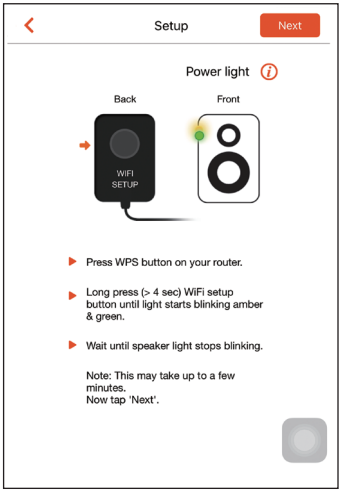
- After successful network setup, you can tap **Rock n' Roll** on the above app screen to get ready for music play directly. For more details, go to the 'Play' section (see 'Play' on page 17).

Option 3: Set up wireless connection to a WPS router

1 Select **Wi-Fi PROTECTED SETUP** and tap **Next**.

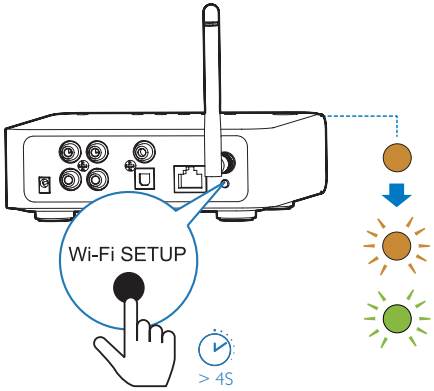


2 Read the WPS setup instructions.



3 As instructed, press and hold **WI-FI SETUP** on the back of AW1000.

↳ The power/status indicator blinks amber and green alternately.



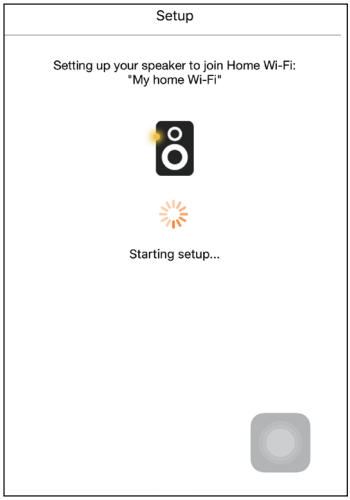
4 Press the WPS button on your home Wi-Fi router.



5 Wait until the power/status indicator on AW1000 turns solid white, then tap **Next** on the app screen..

↳ The following app screen appears.

↳ AW1000 is connected to your home Wi-Fi network successfully.



Tip

- For some Wi-Fi routers, you may need to hold the WPS button for Wi-Fi connection or enable the WPS PBC function from the router configuration pages. See the user manuals of the specific routers for details.
- After successful network setup, you can tap **Rock n' Roll** on the above app screen to get ready for music play directly. For more details, go to the 'Play' section (see 'Play' on page 17).

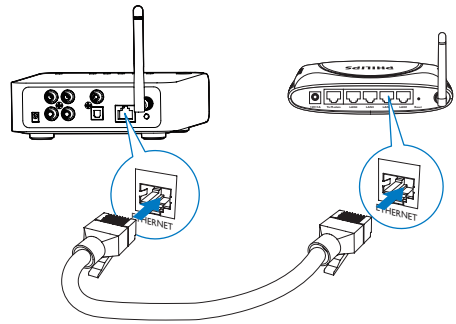
Option 4: Set up wired connection through an Ethernet cable

Note

- If you use wired connection, you just need to select Speaker already setup on the initial Setup page (see 'Download Philips AirStudio+ Lite to your smartphone or tablets' on page 6).

1 If you have tried wireless connection, before setup of wired connection, you need to reset the wireless Hi-Fi link device (see 'Troubleshooting' on page 27).

2 Connect an Ethernet cable (not supplied) to:
   - the **ETHERNET** socket on the back of the device
   - one of the Ethernet ports on your home Wi-Fi router



3 Wait until the power/status indicator turns solid white.
   ↳ AW1000 is connected to your home Wi-Fi network successfully.

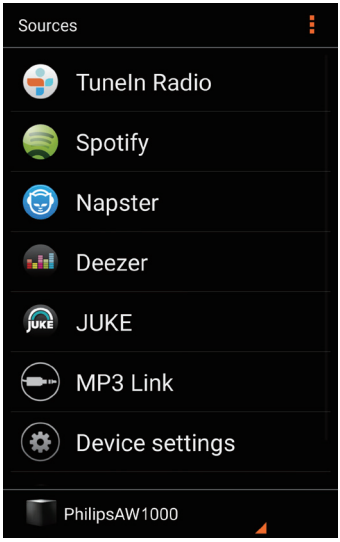
5 Play

Note

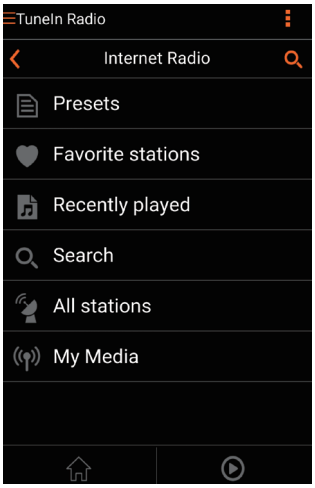
- To stream music to the speaker via DLNA UPnP, use your favorite app from your smartphone or PC/Mac that supports DLNA UPnP.

Listen to Internet radio stations through AW1000

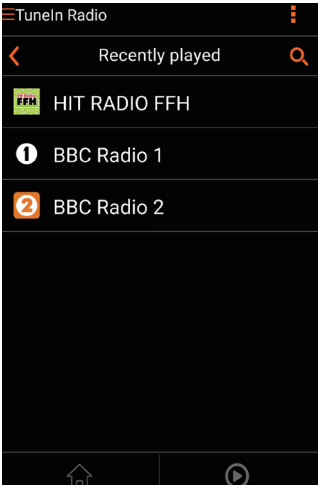
1 Run **Philips AirStudio+ Lite** on your iOS or Android smartphone or tablet.



2 Search for an Internet radio station by its name or location, language etc.



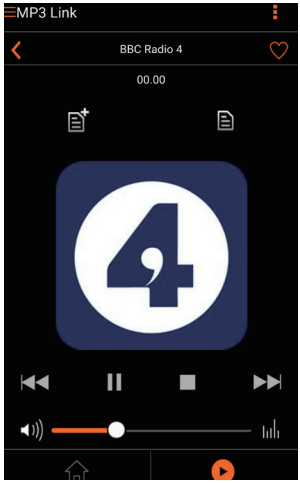
3 To tune to an Internet radio station, select and tap its name in the result list.



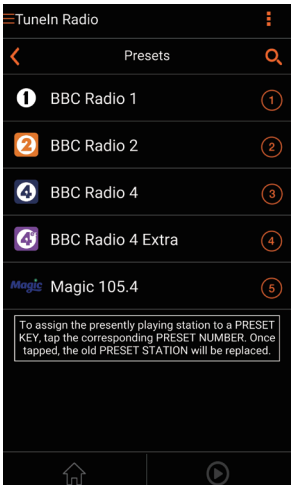
English

Preset Internet radio stations

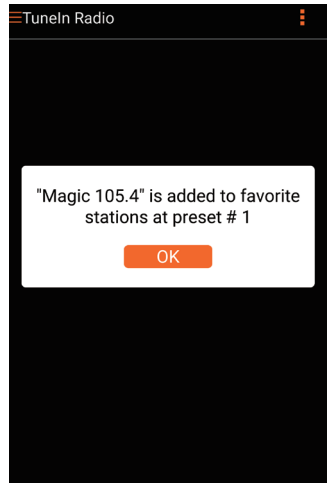
1 Tune to an Internet radio station and tap .
↳ A list of preset radio stations appears.



2 Tap a row in the list where you want to add the preset station. For example, if you want to assign preset number 2 to this station, tap the second row.
↳ A message pops up, in which the station name and preset number are shown.



3 Tap **OK** in the message box to confirm.
↳ The station is added into your list of preset radio stations.



4 Repeat the above procedures to add more presets.

Tip

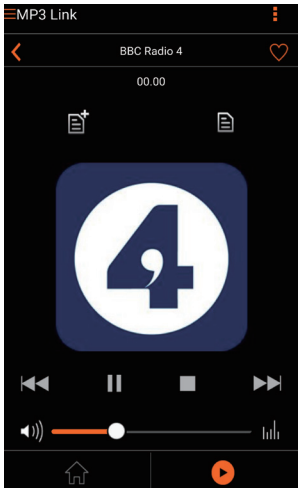
- You cannot delete a preset radio station directly, but you can replace it with another radio station. For example, if you want to delete a station at preset #3, you can tune to another radio station, tap , and then tap the 3rd row to replace the previous station.

To tune to a preset radio station

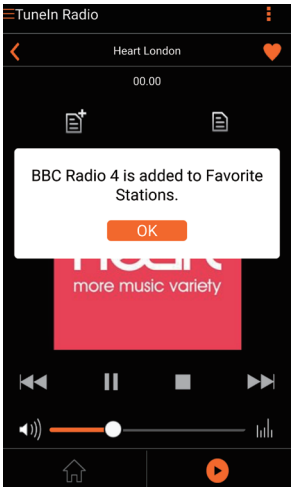
- Press **numeric keys (1-5)** on AW1000 directly to tune to the first five preset radio stations.
- You can also go to **Presets** on the app screen and tap one of your preset stations to start play.

Create your favorite list

1 Tune to an Internet radio station.



2 Tap ♥ to add the station into your favorite list directly.



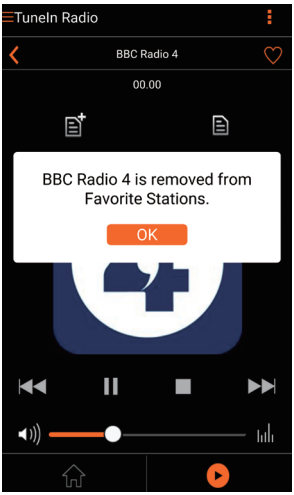
3 Repeat the above procedures to add more favorite stations.

To tune to a favorite radio station

- Go to **Favorite stations** on the app screen and tap one of your favorite stations to start play.

To delete a favorite radio station

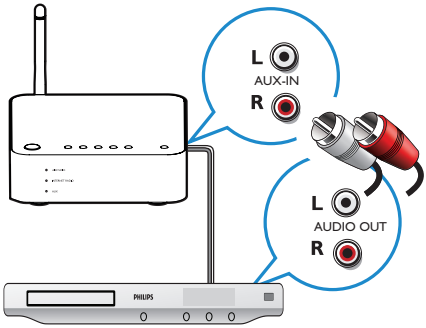
1 Tune to the radio station and tap ♥.
↳ The radio station if removed from your favorite list directly.



Play from an external device

You can also listen to an external audio device through the link device.

1 Connect a pair of RCA audio cables (red/white; not supplied) to:
- the **AUX IN L/R** sockets on the back of the link device.
- the audio output sockets on the external device.



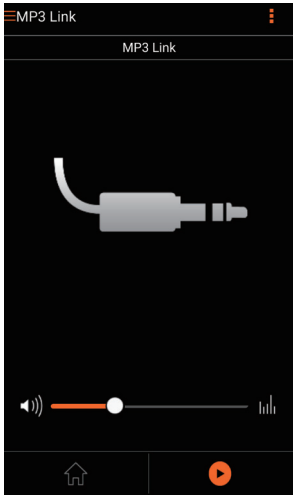
2 Start play on the external audio device and adjust volume.
↳ You can hear music from the audio system connected to the wireless Hi-Fi link device.

3 Use the controls on your audio player to control music play.

To switch to the external audio source manually:

1 Run **Philips AirStudio+ Lite** on your iOS or Android smartphone or tablet.

2 Tap **Services -> MP3 link** to select the MP3 link source.



Tip

- You can also press **SOURCE** on AW1000 repeatedly to select the corresponding audio source directly.

6 Upgrade firmware

To improve the performance of AW1000, Philips may offer you new firmware for upgrade of your AW1000.

Warning

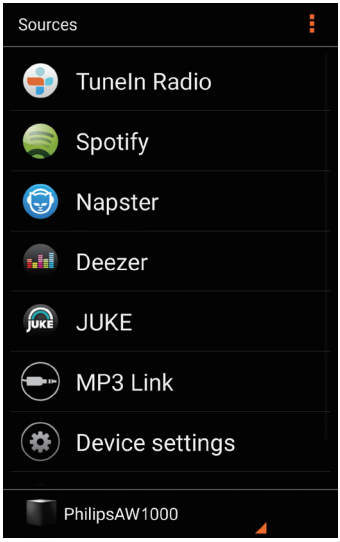
- Always connect your AW1000 to AC power for firmware upgrade. Never power off your AW1000 during firmware upgrade.

1 Make sure that AW1000 is powered on and connected to the same Wi-Fi network as your smartphone or tablet.

2 Make sure that your home Wi-Fi network is connected to the Internet.

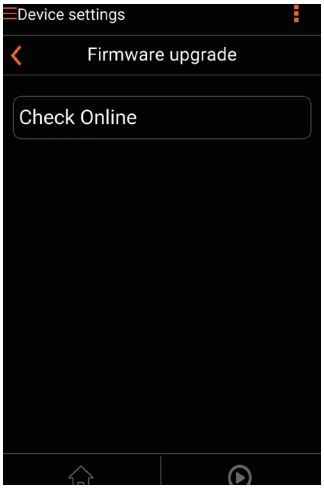
3 Run **Philips AirStudio+ Lite** on your iOS or Android smartphone or tablet.

4 Tap **Services** -> **Device settings**.



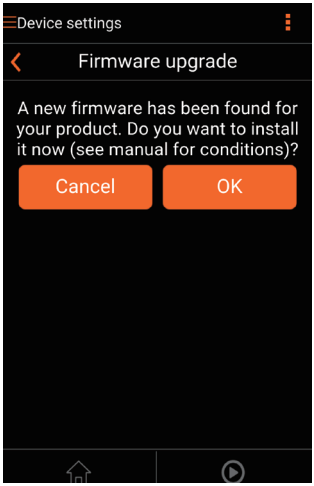
5 Tap **Check** online.

↳ If a new firmware is available. A firmware upgrade prompt pops up automatically.



6 Tap **OK** on the prompt message to start firmware upgrade.

↳ The power/status indicator on AW1000 flashes amber during this process.



7 Wait until the firmware upgrade process finishes, then tap **OK** on the prompt message to restart the device.

7 Product information

Note

- Product information is subject to change without prior notice.

Specifications

Amplifier

Frequency Response	80 Hz - 18 kHz, ±3 dB
Signal to Noise Ratio	> 86 dB
Digital audio output	PCM digital audio, 48kHz fixed sampling rate

Wireless

Wireless standard	802.11b/g
Wireless security	WEP, 10 or 26 hex digit keys WPA (TKIP) or WPA2 (TKIP / AES) with 8 - 40 ASCII printable characters passphrase
Frequency range	2412 - 2462 MHz (CH1-CH11) (for /79, /37, /55, /97) 2412 - 2472 MHz (CH1-CH13) (for /12, /10, /05)
PBC (one button push)	Yes

General information

AC power	100 ~ 240 V, 50/60 Hz
Power Consumption in Standby Mode	< 0.5 W
Dimensions - Main Unit (W x D x H)	140 x 145 x 45 mm
Weight - With Packing - Main Unit	 1.92 kg 0.37 kg

8 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

- Make sure that the AC power plug of the device is connected properly.
- Make sure that there is power at the AC outlet.
- Check whether the device is in Eco standby mode (see 'Connect power and switch on' on page 8).

No sound or poor sound

- Adjust volume on the Philips AirStudio+ Lite app or the existing audio system connected to AW1000.
- If you have selected the wired connection, check whether the Ethernet cable has been connected properly and securely (see 'Option 4: Set up wired connection through an Ethernet cable' on page 16).
- Check the Wi-Fi network connection. Set up the network again if needed (see 'Connect AW1000 to your home Wi-Fi network' on page 9).
- If the audio source is an external audio player, adjust volume on the audio player directly.

No response from the device

- Restart AW1000, and then set up the Wi-Fi network for AW1000 again (see 'Connect AW1000 to your home Wi-Fi network' on page 9).
- Disconnect and reconnect the AC power plug, and then switch on the device again.

Wi-Fi network connection failed

- This device does not support the WPS-PIN method.
- Enable SSID broadcast on the Wi-Fi router.
- Keep away from potential sources of interference which may affect Wi-Fi signal, such as microwave ovens.
- Make sure that the SSID name of your home router consists of alphanumeric characters, with no space or special characters like %/#/*/# inserted. The network password should not consist of #/:/;/'.
- If you choose to rename your AW1000 manually on the **Philips AirStudio+ Lite** app, do not use special characters or symbols.
- For some new types of Wi-Fi routers, a network name (SSID) may be created automatically when you use WPS for connection. Always change the default network name (SSID) to a simple one that consists of alphanumerical characters, and also change the Wi-Fi security mode to secure your network.

Wired network connection failed

- If you have tried wireless connection, before setup of wired connection, you need to reset AW1000. Follow the procedures below to reset the device:

1. Unplug the power cord.
2. Hold the numeric key 1 and plug the power cord again.
   ↳ The power/status indicator flashes amber, then turns solid amber, and after a while starts to flash amber again.

3 Release the numeric key 1.

Note

- Do not release the numeric key 1 until the power/ status indicator flashes amber for a second time.

Occasional breaking of music streaming

Do one or all of the following:

- Move AW1000 closer to your Wi-Fi router.
- Remove any obstacles between AW1000 and your Wi-Fi router.
- Avoid using Wi-Fi channel which is overlapped by the nearby Wi-Fi network.
- Check if your network speed is fast enough (in cases where multiple devices share the same router, the wireless performance may be affected). Turn off the other devices connected to your home router.
- Enable the Quality of Service (QoS) option (if available on the Wi-Fi router).
- Turn off other Wi-Fi routers.

The power/status indicator remains red. What can I do?

- You need to recover the device with an Ethernet cable.

1 Make sure that your router is connected to the Internet.

2 Connect the device to the router through an Ethernet cable (see 'Option 4: Set up wired connection through an Ethernet cable' on page 16).

3 Wait for automatic recovery of the device, which may take up to 10 minutes.

9 Appendix: Understand meanings of LED colors

LED color	Meaning
Blinking amber	AW1000 is booting up or firmware upgrade is in progress.
Solid amber	AW1000 is not connected to any network.
White and amber alternately	AW1000 is in wireless setup mode, assisted by the AirStudio+ Lite app. Follow the set-up instructions on the app.
Green and amber alternately	Wireless setup by the WPS method has been triggered or is ongoing.
Solid white	AW1000 is connected to a Wi-Fi network and is ready for wireless music streaming.
Blinking white	AW1000 is muted.
Solid green	AW1000 is in normal standby mode (see 'Connect power and switch on' on page 8).
Solid red	AW1000 is malfunctioning. You need to recover it (see 'Troubleshooting' on page 27).

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BOA v0.94 14rc21

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---

busybox v1.13

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