Always there to help you

AW9000

Question?
Contact
Philips

User manual

PHILIPS

Contents

1 Important

Safety

Information for Europe:
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.
```

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

CE0560

This product complies with the radio interference requirements of the European Community.

This product complies with the requirement of the 1999/5/EC directive.

Modifications
Modifications not authorized by the manufacturer may void user's authority to operate this product.

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 Speaker

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 speaker 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 **MP3-LINK**, **OPTICAL**, **COAXIAL** or **AUX IN (L/R)** sockets.

What's in the box

Check and identify the contents of your package:

- Wireless Hi-Fi speaker system with built-in Wi-Fi
- 2 x AC power cords
- 1 x speaker cable
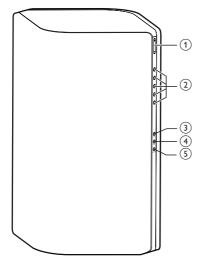- Quick start guide
- Safety sheet

What else you need

To stream audio wirelessly to AW9000, 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)

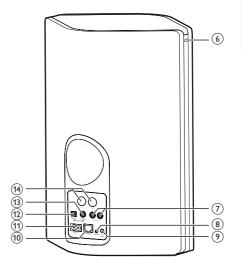Your AW9000 should be connected to the same local network as your iOS/Android device or through the Wi-Fi router.

Overview of the main unit

(1) **+/-**
- Adjust volume.

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

(3) **AUX 1 button**
- Select an auxiliary input source connected to the **OPTICAL** or **COAXIAL** socket.

(4) **AUX 2 button**
- Select an auxiliary input source connected to the **AUX IN L/R** sockets.

(5) **MP3-LINK button**
- Select the MP3 link source.

(6) **Power indicator/button** ⏻
- Show the current status of the device.
- Switch the device on or to normal/Eco standby mode.

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

(8) **MP3-LINK socket**
- Connect an external audio player through a 3.5mm audio cable (not supplied).

(9) **WI-FI SETUP button**
- Connect the device to a Wi-Fi network.

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

(11) **AC IN ~ socket**
- Connect the power cord.

(12) **OPTICAL socket**
- Connect an external device through an optical cable (not supplied).

(13) **COAXIAL socket**
- Connect an external audio device through an coaxial cable (not supplied).

(14) **Speaker connectors**
- Connect the two speakers with each other through the supplied speaker cables.

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.

Play your content wirelessly on your Philips connected device

Skip Intro

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

To connect your speaker for the first time

Setup a new speaker | Speaker already setup
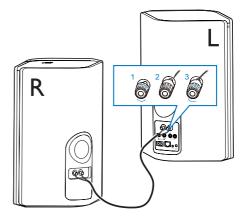
4 Read the general setup steps, then tap **Next**.

≡Setup

Setup is done in three steps

① Prepare speaker
② Connect to speaker,
③ Connect speaker to your network.

Next

Connect speaker cables

> **Note**
>
> - Insert the stripped portion of each speaker wire into the socket completely.
> - For optimal sound, use the supplied speakers only.

1 Unscrew the speaker connectors.
2 Insert fully the end of a speaker cable with red mark into the left red (+) connector.
3 Screw the left red (+) connector to secure the cable.
4 Insert fully the end of a speaker cable without red mark into the left black (-) connector.
5 Screw the left black (-) connector to secure the cable.
6 Repeat steps 2-5 to insert the other speaker cable into the right connectors.

Connect power and switch on

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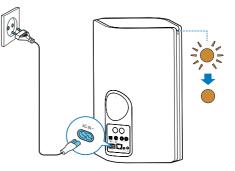> - Risk of product damage! Make sure that the power supply voltage matches the voltage printed on the bottom of the device.
> - Risk of electric shock! When you unplug the AC power cord, always pull the plug from the socket. Never pull the cord.
> - Before you connect the AC power cord, make sure that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

1 Read the power connection instructions on the app.

2 Connect the AC power cord to
   - the **AC IN ~** socket on the back of the main speaker.
   - 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 button/indicator above ⏻.
  - » The power/status indicator turns green.
- To switch the device to Eco power standby mode, press and hold the power button/indicator above ⏻ 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 the power button/indicator above ⏻ again.

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

4 Connect AW9000 to your home Wi-Fi network

To connect AW9000 to your existing home Wi-Fi network, you need to apply your home Wi-Fi settings to AW9000.

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 9).
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 AW9000 to your home Wi-Fi network, make sure that:

(1) your Wi-Fi router is powered on and working properly.

(2) AW9000 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, AW9000 will remember your home Wi-Fi settings. Then you can play music or listen to Internet radio via **Philips AirStudio+ Lite** whenever AW9000 is powered on and connected to your home Wi-Fi network automatically.

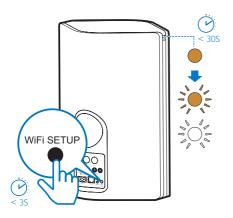## Option 1: Set up wireless connection to a non-WPS router through an iOS device

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 the main speaker.
  » The power/status indicator starts to blink amber and white alternately.
  » A new Wi-Fi network created by AW9000 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 speaker as you like, and then tap **OK** to connect AW9000 to your home Wi-Fi network.

11 Wait until the power/status indicator on AW9000 turns solid white.
  » The following app screen appears.
  » AW9000 is connected to your home Wi-Fi network successfully.

- 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).

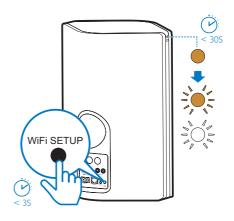## Option 2: Set up through a non-WPS Wi-Fi router and Android device

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 the main speaker.

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

» A new Wi-Fi network created by AW9000 will appear, with the network name (SSID) of **Philips_Install**.
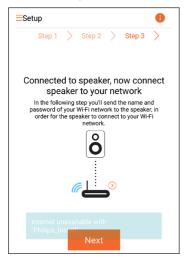
5 Tap **Next** on the above app screen.
- » Your Android device starts to connect with the new Wi-Fi network created by AW9000 automatically.

6 Wait until the speaker 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 speaker as you like, and then tap **OK** to connect AW9000 to your home Wi-Fi network.

9 Wait until the power/status indicator on AW9000 turns solid white.

» AW9000 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

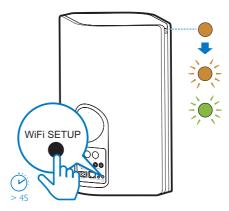**1** Select **Wi-Fi PROTECTED SETUP** and tap **Next**.

2 Read the WPS setup instructions.

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

» 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 AW9000 turns solid white, then tap **Next** on the app screen..

» The following app screen appears.

» AW9000 is connected to your home Wi-Fi network successfully.

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 speaker (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.
» AW9000 is connected to your home
  Wi-Fi network successfully.
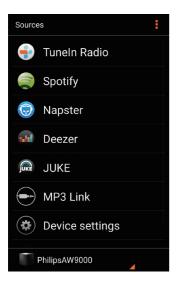
5 Play

Note

• To stream music to the speaker via DLNA UPnP, use your favorite app from your smartphone or PC/Mac that supports DLNA UPnP.
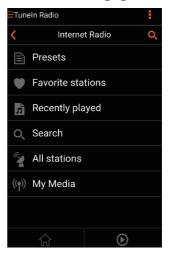
Listen to Internet radio stations through AW9000

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

Sources

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.

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 AW9000
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.
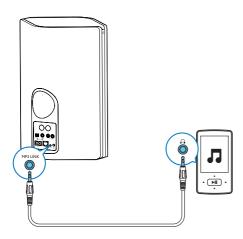

Play from an external device

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

Connect through the MP3-LINK socket:

1 Connect an MP3 link cable (not supplied) to:
  • the **MP3-LINK** socket on the back of the device.
  • the headphone socket on an external audio player.

2 Start play on the external audio player and adjust volume.
  - ↳ You can hear music from the wireless Hi-Fi speaker.

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

Connect through the OPTICAL or COAXIAL socket:

1 Connect an optical or coaxial cable (not supplied) to:
  - the **OPTICAL** or **COAXIAL** socket on the back of AW9000.
  - the corresponding digital output socket on an external audio device.

2 Start play on the external audio player and adjust volume.
  - ↳ You can hear music from the wireless Hi-Fi speaker.

3 Use the controls on your audio player to control music play.
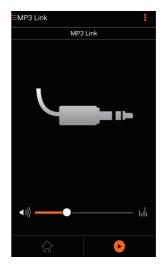
Connect through the AUX IN L/R sockets:

1 Connect a pair of RCA audio cables (red/white; not supplied) to:
  - the **AUX IN L/R** sockets on the back of AW9000.
  - the audio output sockets on an external audio device.

2 Start play on the external audio player and adjust volume.
  - ↳ You can hear music from the wireless Hi-Fi speaker.

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.
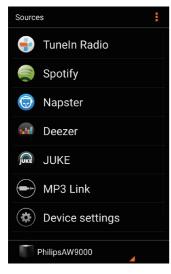
> ✱ **Tip**
>
> • You can also press a source key on AW9000 to select the corresponding audio source directly.

6 Upgrade firmware

To improve the performance of AW9000, Philips may offer you new firmware for upgrade of your AW9000.

> ⚠ **Warning**
>
> • Always connect your AW9000 to AC power for firmware upgrade. Never power off your AW9000 during firmware upgrade.

1 Make sure that AW9000 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**.

Sources
- TuneIn Radio
- Spotify
- Napster
- Deezer
- JUKE
- MP3 Link
- Device settings
- PhilipsAW9000

5 Tap **Check** online.
  » If a new firmware is available. A firmware upgrade prompt pops up automatically.

Device settings
Firmware upgrade
Check Online

6 Tap **OK** on the prompt message to start firmware upgrade.
  » The power/status indicator on AW9000 flashes amber during this process.

Device settings
Firmware upgrade
A new firmware has been found for your product. Do you want to install it now (see manual for conditions)?
Cancel   OK

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

Rated Output Power	2 X 50 W RMS @ 10% THD
Frequency Response	80 Hz - 18 kHz, ±3 dB
Signal to Noise Ratio	> 86 dB
MP3 Link	900 mV RMS 20 kohm

Speakers

Speaker Impedance	8 ohm
Speaker Driver	2 × dome tweeters, 4 × 3.5'' woofers
Sensitivity	82 dB/m/W

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	Input: 100 ~ 240 V, 50/60 Hz
Operation Power Consumption	40 W
Power Consumption in Standby Mode	< 0.5 W
Dimensions - Main Unit (W × D × H)	511 × 268 × 434 mm
Weight - With Packing - Main Unit	13 kg 10 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
• Check whether the device is muted. The power/status indicator flashes white when the device is muted. Adjust volume on the Philips AirStudio+ Lite app or on AW9000 directly.
• If you have chosen 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 AW9000 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 AW9000, and then set up the Wi-Fi network for AW9000 again (see 'Connect AW9000 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 AW9000 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 the wireless Hi-Fi speaker. 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 AW9000 closer to your Wi-Fi router.
- Remove any obstacles between AW9000 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	AW9000 is booting up or firmware upgrade is in progress.
Solid amber	AW9000 is not connected to any network.
White and amber alternately	AW9000 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	AW9000 is connected to a Wi-Fi network and is ready for wireless music streaming.
Blinking white	AW9000 is muted.
Solid green	AW9000 is in normal standby mode (see 'Connect power and switch on' on page 8).
Solid red	AW9000 is malfunctioning. You need to recover it (see 'Troubleshooting' on page 27).

AW9000 Device Terms & Conditions of Use

These Device Terms and Conditions of Use are a legal agreement between you and Gibson Innovations Limited , a Hong Kong company with a registered office at 5 Science Park East Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong and its affiliated companies (individually and collectively "Gibson Innovations").

Terms and Conditions of Use

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[This is the first released version of the Lesser GPL. It also counts

 as the successor of the GNU Library Public License, version 2, hence

 the version number 2.1.]

Preamble

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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