# WiiM Amp Pro: Stereo Streaming Amplifier

## Stream Elegance, Amplify Brilliance

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# 1. Introduction

At WiiM, our goal is to offer you the simplest and most affordable Hi-Fi, lossless audio systems. Every product we create showcases top-tier design and an intuitive user interface. With our patented audio streaming solution integrated into all our premium products and user-friendly mobile apps, you can effortlessly enjoy music throughout your entire home.

Introducing the WiiM Amp Pro, the heart of your home audio system. Designed to refine the way you experience music, movie, and more, WiiM Amp Pro combines power, versatility, and simplicity like never before. Whether you're an audiophile or a home theater enthusiast, WiiM Amp Pro delivers exceptional sound quality, reliable connectivity, and intuitive control. With support for streaming services, voice assistants, and automatic software updates, it's the amplifier that keeps getting smarter. Elevate your audio experience with WiiM Amp Pro and unlock a world of immersive sound that's tailored to your unique preferences.

It features an ESS Sabre premium DAC, leveraging ESS patented 32-bit HyperStream DAC architecture to deliver industry-leading low distortion and wide dynamic range. It boasts a Signal-to-Noise Ratio (SNR) of 135 dB (A-wt) and a Total Harmonic Distortion plus Noise (THD+N) of -120 dB across sample rates from 44.1k to 192k, courtesy of its ultra-low noise clock and optimized power and circuit design. Additionally, it features a cutting-edge TI Burr-Brown PCM1861 ADC, which achieves a 110 dB SNR for analog-to-digital conversion, making it the go-to choice for input sources like turntables, MP3 players, or TVs.

Simply add your speaker to the WiiM Amp Pro, and control it using the user-friendly WiiM Home app, popular platforms like Spotify, TIDAL, Amazon Music, or any Google Cast-enabled apps. Voice control is also a breeze through compatible Echo and Google Home devices, as well as the included voice remote.

Create synchronized groups with Echoes, Google Home, Alexa-compatible devices, or additional WiiM devices, and play the same music throughout your home or different songs in separate rooms.

Elevate your passive speaker with the smart and amplification capabilities of the WiiM Amp Pro, delivering high-fidelity, gapless music and enhanced TV audio, all encapsulated within the exceptional innovation of WiiM.

# Typical Use Cases

The WiiM Amp Pro is designed to simply add your speaker and bring it the wireless streaming capabilities and smart features. Here are a few common use cases for the WiiM Amp Pro:

- **Connect and Power your Favorite Passive Speakers**: Connect and power your traditional wired speakers, including bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers, integrating them into the wireless streaming system for an elevated audio experience.

- **Streaming Music and Music Libraries**: Stream music using Google Cast, Alexa Cast, Spotify Connect or WiiM streaming platform, allowing you to access hundreds streaming services such as Spotify, Amazon Music, or TIDAL. Plus, stream your personal music library stored on a computer or network-attached storage device for seamless playback.

- **Podcasts and Internet Radio**: In addition to streaming music, the WiiM Amp Pro provides access to a wide range of podcasts and internet radio stations. You can browse through different genres, podcasts, or specific radio stations to enjoy on your existing audio system.

- **High-Quality Audio**: It supports bit-perfect, high-resolution audio up to 192k/24-bit and delivers rich, clear, and undistorted sound at higher volumes.

- **Multi-room Audio**: The WiiM Amp Pro is compatible with other 3rd party popular smart speakers and components, or another WiiM device, allowing you to create a whole-home audio system with synchronized music playback in multiple rooms.

- **Smart Home Integration**: The WiiM Amp Pro supports voice control through platforms like Amazon Alexa or Google Assistant, allowing you to control your music hands-free and integrate with other smart home devices.

- **Vinyl or CD Integration**: If you have a turntable or CD player that you want to incorporate into your WiiM system, the WiiM Amp Pro can connect to the analog or digital outputs of these devices. This enables wireless audio streaming to other speakers via another WiiM compatible device, allowing you to relish the sound throughout your entire home, all in sync.

- **Home Theater Integration**: Elevate your entertainment experience effortlessly with the WiiM Amp Pro's HDMI ARC port. Plug in your TV and immerse yourself in rich stereo sound for shows, movies, and video games. Craving that extra oomph? Simply add a powered subwoofer to take your audio to cinematic levels. With minimal setup required, the WiiM Amp Pro offers a seamlessly integrated AV system that turns your living room into a home theater paradise.

# Other Devices Needed to Use the WiiM Amp Pro

To use the WiiM Amp Pro, you will need a few essential devices and components. Here's a list of what you'll need:

- **Passive Speakers:** The WiiM Amp Pro is designed to connect to your passive speakers such as bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers. Make sure you have the appropriate speakers in place.

- **Wi-Fi Network**: The WiiM Amp Pro requires a stable Wi-Fi network connection to function. Ensure that you have a reliable Wi-Fi network available in the area where you plan to set up the WiiM Amp Pro. You'll need the Wi-Fi network credentials during the setup process.

- **Smartphone or Tablet**: You'll need a compatible smartphone or tablet (iOS or Android) with the WiiM Home app installed. The WiiM Home app is used for initial setup, configuration, and control of the WiiM Amp Pro.

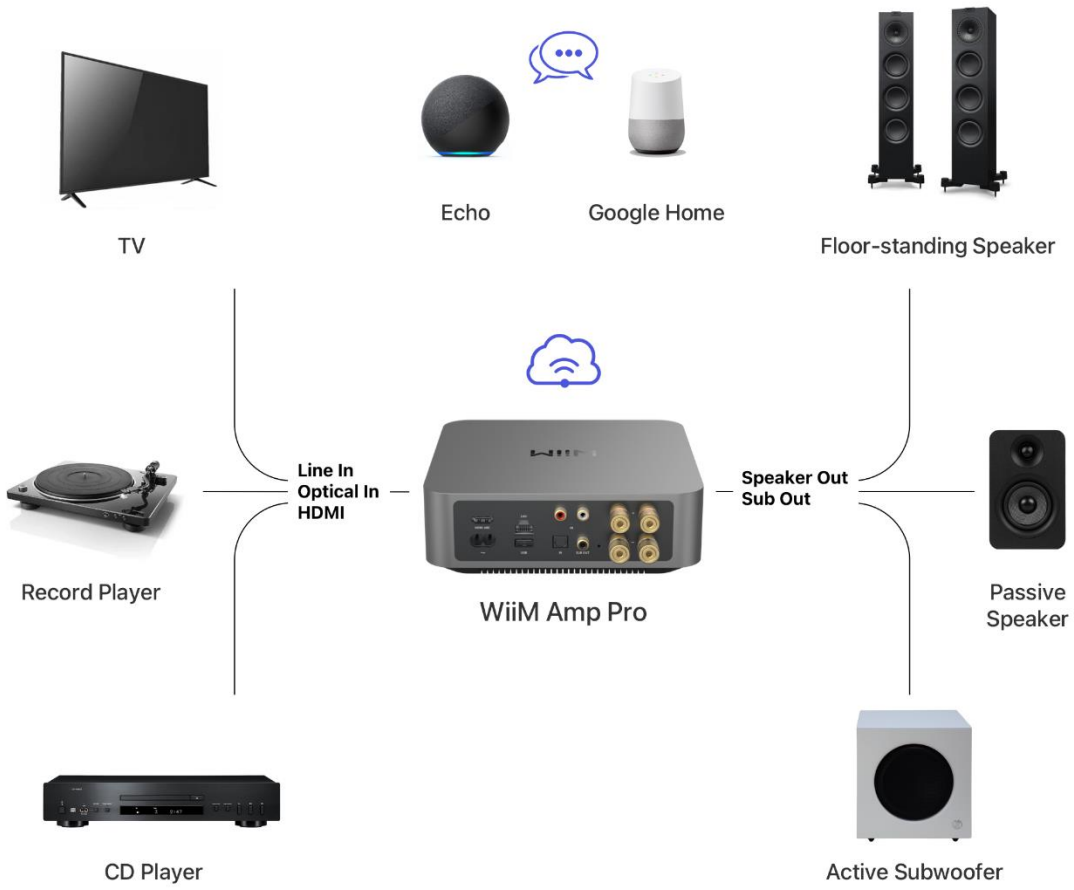
- **Power Source**: The WiiM Amp Pro needs to be connected to a power source using the included power cable. Ensure that you have an electrical outlet nearby to power the device.

- **Ethernet Cable** (optional): While the WiiM Amp Pro primarily connects to your Wi-Fi network, it also has an Ethernet port. If you prefer a wired connection for added stability, you can use an Ethernet cable to connect the WiiM Amp Pro directly to your router or network switch.

These are the core components required to use the WiiM Amp Pro. It's important to have a pair of speakers that you want to integrate with the WiiM Amp Pro, a stable Wi-Fi network, and a compatible device with the WiiM Home app for setup and control.

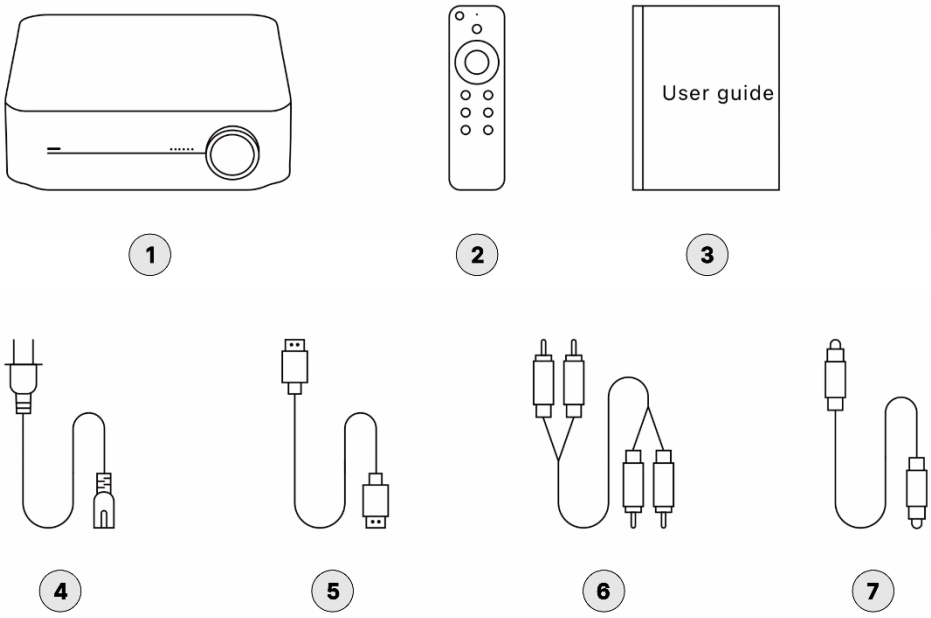
# Audio Devices Work with the WiiM Amp Pro

The WiiM Amp Pro can work with your passive speakers, including bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers. Besides the network and Bluetooth streaming music, it can play audio from TV, record player and MP3 player.



# 2. What's in the Box

1. WiiM Amp Pro x 1
2. WiiM Voice Remote x 1
3. Quick start guide x 1
4. 100~240V AC power cable (1.5m) x 1
5. HDMI cable (1.5m) x 1
6. RCA audio cable (1.5m) x 1
7. Optical audio cable (1.5m) x 1



# 3. Technical Specifications

| Category | Specification |
|---|---|
| **Audio Amplification** | TI TPA3255 |
| **Main Purpose** | Connected to passive speaker for streaming |
| **Pair with a Sub** | Yes |
| **USB Port (Storage/Audio Out)** | Yes |
| **Wireless Connectivity** | Wi-Fi 6 (Upgradeable to Wi-Fi 6E via software update) |
| **Bluetooth** | BT 5.3 |
| **Ethernet** | Yes |
| **DAC IC** | ESS ES9038 Q2M |
| **Analog Out SNR** | 120 dB |
| **THD+N (Analog Out)** | -105 dB (0.0005%) at 5W |
| **Analog Input (ADC)** | Up to 192k, 24 bit |
| **Google Cast Audio** | Yes |
| **Group with Nest Speakers and Display** | Yes |
| **Group with Echo Speakers and Display** | Yes |
| **Alexa Multi-room with UHD** | Yes |
| **Group with HomePods** | No |
| **Work with Alexa** | Yes |
| **Work with Google** | Yes |
| **Work with Siri** | No |
| **Group with WiiM Devices** | Yes |
| **AirPlay 2** | No |
| **2-Way Bluetooth** | Yes |
| **Roon Ready** | Yes |
| **DLNA** | Yes |
| **Spotify Connect & TIDAL Connect** | Yes |
| **Gapless Playback** | Yes |
| **10-Band Graphic and Parametric EQ** | Yes |

| | |
|---|---|
| **WiiM Music Streaming Platform** | Yes |
| **CPU** | Quad Core A53 |
| **DRAM** | 512 MB |
| **Flash** | 512 MB |
| **Audio Input Port** | HDMI ARC:<br>● Up to 192kHz/24-bit.<br>● Supports Stereo PCM and Dolby Digital, but not DTS. |
| | Optical In:<br>● Up to 192kHz/24-bit.<br>● Supports Stereo PCM and Dolby Digital, but not DTS. |
| | Line In:<br>● 2 Vrms<br>● Analog signal, converted to digital via ADC (up to 192kHz/24-bit) |
| **Audio Output Port** | Passive Speaker Terminals/Banana (x2) |
| | USB Out:<br>● Up to 192kHz/24-bit<br>● UAC 2.0<br>● DC 5V/1.5A power output<br>***Note**: The USB Out port currently does not support Subwoofer Output (Sub Out). This feature will be supported in the future.* |
| | Sub Out (2.0 Vrms) |
| **External USB Storage** | Access personal media library and use it as a media server for other WiiM and DLNA devices. Support FAT32, NTFS, and EXT4 file systems. |
| **LED** | ● Three-color status LED - Red, Green, and White<br>● Six volume LEDs |
| **Control** | Volume knob, play/pause, setup, and more |
| **Weight** | 1.84 kg (4.1 lbs) |
| **Dimension** | 7.48" x 7.48" x 2.48" (190 mm x 190mm x 63 mm) |
| **Power Input** | 100-240V, 50/60Hz AC Power |

# 4. WiiM Amp Pro Controls, Interfaces, and Lights

## Front Panel Controls and Lights

Each numbered control or light on the front panel is explained below:

| | | |
|---|---|---|
| 1 | **Status LED** | A three-color LED (RGW) indicator to display the operational status of the WiiM Amp Pro.<br><br>For more information, see LED Status Lights. |
| 2 | **Volume LED** | Six LEDs indicate the volume level of the WiiM Amp Pro. |
| 3 | **Volume Knob** | **Push**:<br>● Play/Pause<br>● Wi-Fi setup (push and hold for 3 seconds)<br>● Restore to the factory setting (push and hold for 10 seconds)<br><br>**Turn clockwise**: Increase volume<br><br>**Turn anti-clockwise**: Decrease volume |

# Back Panel Interfaces

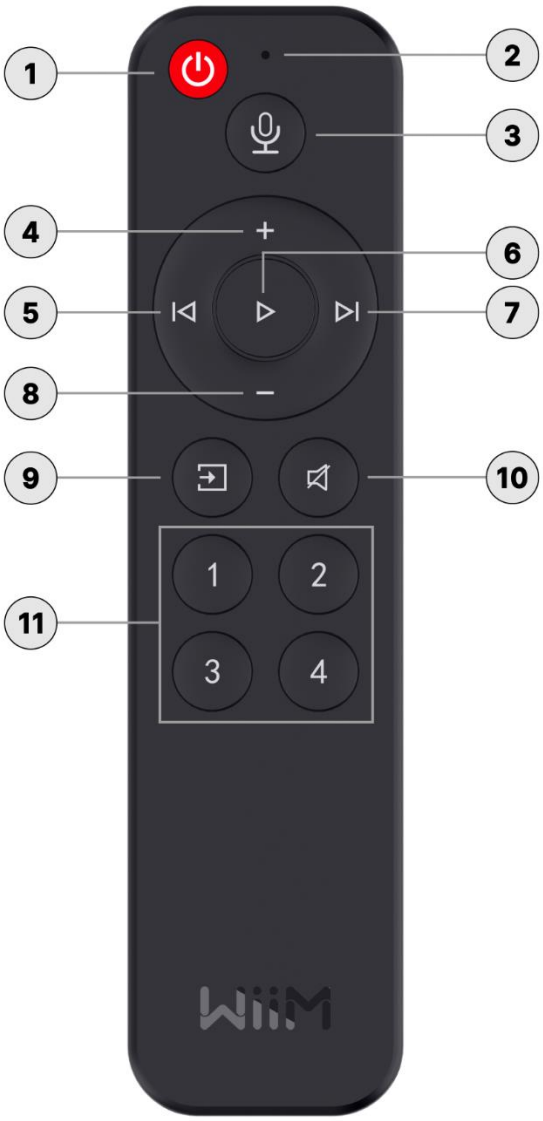
Each numbered interface on the back panel is explained below:

| | | |
|---|---|---|
| 1 | **HDMI ARC** | Connects to a TV for audio input.<br><br>It supports Stereo PCM, Dolby Digital (DTS is not supported). |
| 2 | **LAN** | 10/100Mbps Ethernet port |
| 3 | **LINE IN** | Connects to external audio sources such as CD players, audio players, and TVs for analog audio input. |
| 4 | **Speaker Out** | Connects to passive speakers using bare wire, spade connectors, or banana plugs (L, R). |
| 5 | **Power Input** | 100-240V AC input, 50/60 Hz, 4A Max |
| 6 | **USB** | **USB IN**: Allows connection to USB storage devices for playing audio files directly.<br><br>***Note**: USB audio input is not supported.* |

| | | |
|---|---|---|
| | | **USB OUT**: Outputs high quality audio to an external DAC or other audio device with a USB audio input.<br><br>***Note****: Use a USB hub to connect both* ***USB IN*** *and* ***USB OUT*** *simultaneously.* |
| 7 | **OPTICAL IN** | Connects to external audio sources, such as a TV or PC, for digital audio input. It supports audio input of up to 192 kHz/24-bit. |
| 8 | **SUB OUT** | Connects to a powered subwoofer and outputs a signal at 2.0 Vrms. |

# WiiM Voice Remote

You can use the provided WiiM Voice Remote to effortlessly control the WiiM Amp Pro. For detailed instructions, refer to How to Set Up Your WiiM Voice Remote.




Each numbered control on the WiiM Voice Remote is explained below:

| | | |
|---|---|---|
| 1 | **Standby** | Press to put the WiiM Amp Pro into standby mode. |
| 2 | **Microphone** | Capture voice commands |
| 3 | **Voice Control** | Press and hold to give voice commands. |

| | | |
|---|---|---|
| 4 | **Volume Up** | Press to increase the speaker volume. |
| 5 | **Previous** | Press to return to the previous playback or restart the current playback. |
| 6 | **Play/Pause** | Press to start or pause the current playback. |
| 7 | **Next** | Press to skip to the next playback. |
| 8 | **Volume Down** | Press to decrease the speaker volume. |
| 9 | **Source Switch** | Press to change the input source. |
| 10 | **Mute/Unmute** | Press to mute or unmute the speakers. |
| 11 | **Preset Shortcuts** | Press buttons 1~4 to play the corresponding presets. |

# LED Status Lights

| LED Color/Pattern | | State |
|---|---|---|
| Fast Flashing White | | Boot-up |
| Slow Flashing White | | OOBE/Ready to setup |
| Slow Flashing Blue | | Bluetooth ready to pair |
| Fast Flashing White and Green | | Connecting to Wi-Fi |
| Solid White | | Connected to Wi-Fi |
| Solid Blue | | Bluetooth mode, paired |
| Solid Light Green | | Line-in mode |
| Solid Orange | | Optical-in mode |
| Solid Purple | | TV mode |
| Slow Flashing White and Green | | OTA update |
| Slow Flashing White and Red | | Restore to factory settings |
| Solid Yellow | | No network |
| Slow Flashing Red | | Wi-Fi error |
| Fast Flashing Red | | Device error |

# 5. How to Get Started

Before using your WiiM Amp Pro, follow these main steps to set it up:

1. Connect the WiiM Amp Pro to your audio device.
2. Power on the WiiM Amp Pro.
3. Download and install the WiiM Home app on your mobile device.
4. Use the WiiM Home app to connect the WiiM Amp Pro to your network.
5. Configure the WiiM Amp Pro in the WiiM Home app to suit your preferences.

By completing these steps, your WiiM Amp Pro will be ready for use. The following sub-chapters will provide detailed instructions for each step.

# Connect the WiiM Amp Pro's Audio Output

The WiiM Amp Pro features three distinct audio output interfaces:

- Speaker Out
- Sub Out
- USB Out

Primarily, the WiiM Amp Pro is used to connect to passive speakers via the **Speaker Out** interface and to a powered subwoofer through the **Sub Out** interface.

Additionally, if you want to connect a USB DAC or an amplifier with USB Audio Input, the WiiM Amp Pro can function as a preamp using the **USB Out** interface

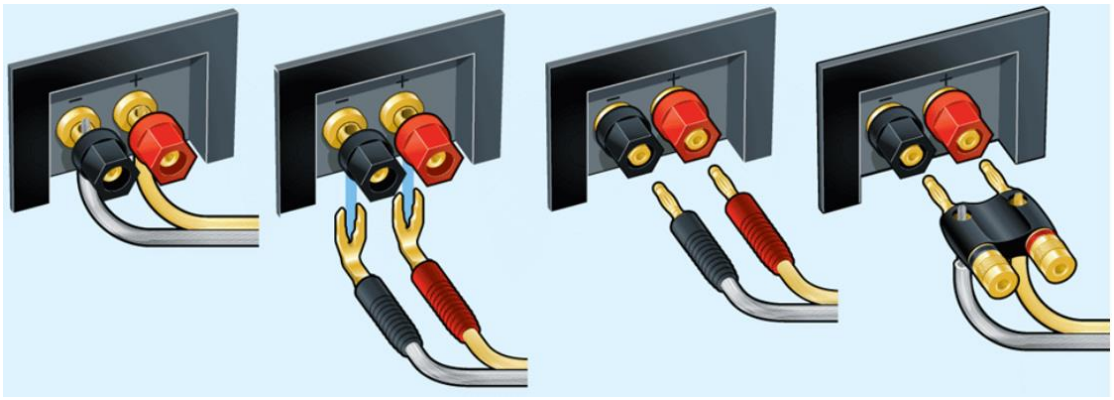
Besides audio output via the above physical interfaces, the WiiM Amp Pro can also output audio via Bluetooth. For detailed instructions, see Audio Output via Bluetooth.

## Scenario 1: Speaker Out (Passive Speakers)

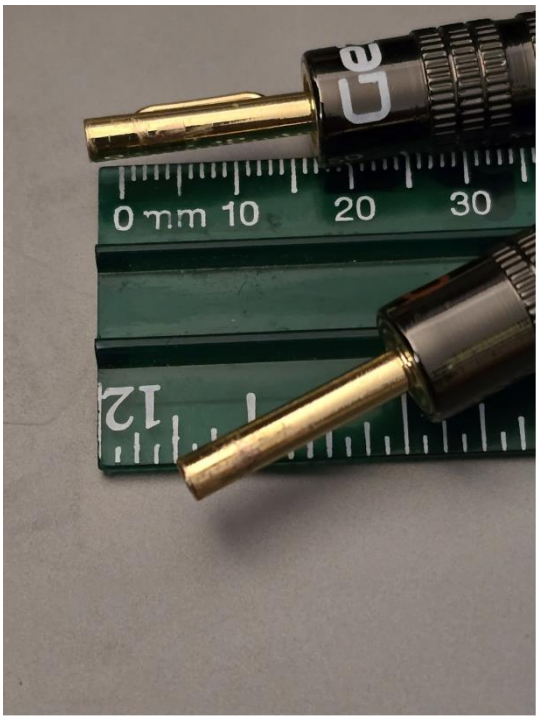
The **Speaker Out** port on the WiiM Amp Pro connects to the passive speakers.

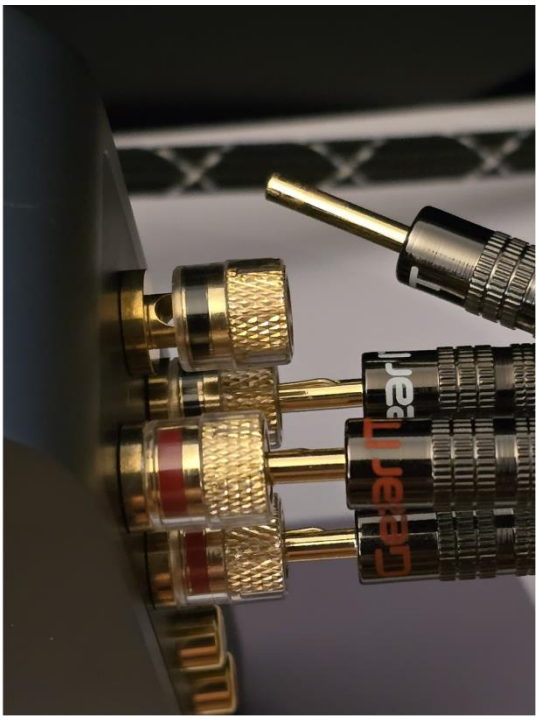
**Cable Requirement**: Use two speaker cables.

There are multiple ways to connect speaker cables from your passive speakers to the WiiM Amp Pro, i.e., bare wire, spade connectors, or banana plugs. Here are some connector examples (credit: Crutchfield).



***Note**: Banana plugs (as figure below) are recommended for the best sound and more reliable performance.*

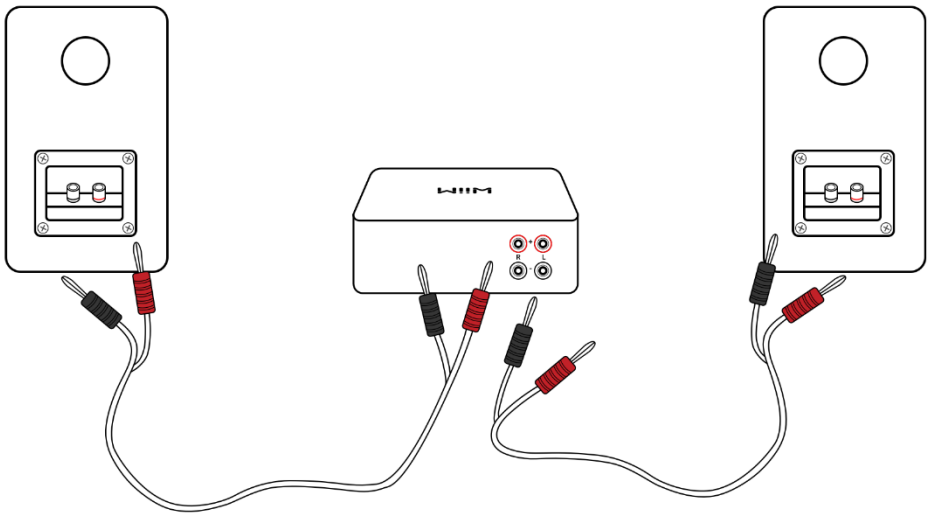


**Cable Connection Steps:**

1. Use one speaker cable to connect the left passive speaker to the left (L) terminals on the WiiM Amp Pro.
2. Use the other speaker cable to connect the right passive speaker to right (R) terminals on the WiiM Amp Pro.

***Note**: Ensure that the connector colors (red and black) match the corresponding terminals on the WiiM Amp Pro and the speakers.*



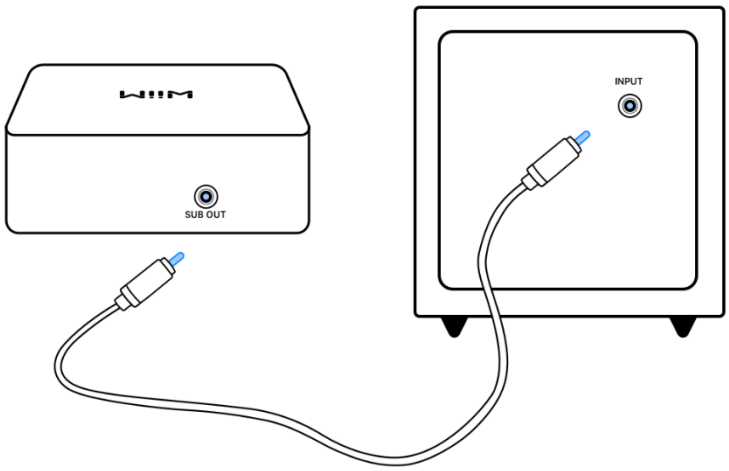
## Scenario 2: Sub Out (Powered Subwoofer)

The **Sub Out** interface on the WiiM Amp Pro connects to a powered subwoofer for enhanced bass.

**Cable Requirement**: Use an RCA mono cable with 75-ohm impedance:

**Cable Connection Steps**:

1. Connect one end of an RCA cable to the **Sub Out** port on the WiiM Amp Pro.
2. Connect the other end of the RCA cable to the input on your powered subwoofer. If your subwoofer has two RCA inputs, opt for the one marked **LFE** or **Mono**.



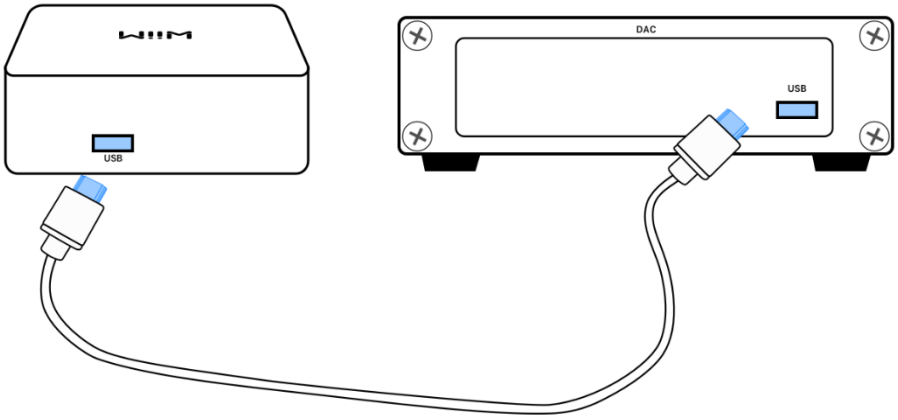
## Scenario 3: USB Out (DACs or Amplifiers)

The **USB Out** port on the WiiM Amp Pro typically connects to the external device, e.g., DACs or amplifiers that support USB audio input.

**Cable Requirement**: Use a USB cable

**Cable Connection Steps:**

1. Plug one end of the USB cable into the **USB** port on the WiiM Amp Pro.
2. Plug the other end of the cable into the **USB** input port of the DAC or amplifier.



# Connect the WiiM Amp Pro's Audio Input

The WiiM Amp Pro features three distinct audio input interfaces:

- Analog Line In
- Digital Optical In (TOSLINK)
- HDMI ARC

The WiiM Amp Pro functions as both an amplifier and a network audio transmitter through Wi-Fi or Ethernet. You have the capability to stream analog audio input from sources such as CD players, vinyl players, TVs, or computers to other WiiM devices, either individually or in multiple combinations.

In addition to physical input interfaces mentioned above, you can also stream audio from an external device (e.g., smartphones or tablets) to the WiiM Amp Pro via Bluetooth. For detailed instructions, see Audio Input via Bluetooth.

***Notes:***

- *The **Optical In** and **HDMI ARC** interfaces on the WiiM Amp Pro only support **PCM** and **Dolby Digital 5.1** audio formats. Please ensure that the audio source device connected to the WiiM Amp Pro is set to output audio in **PCM** or **Dolby Digital 5.1** format. Otherwise, you may not hear sound.*
- *To connect your TV to the WiiM Amp Pro using an HDMI cable, select HDMI port on your TV labeled **HDMI ARC**. Please note that connecting to other HDMI ports will not transmit sound to the WiiM Amp Pro.*
- *You can also enable the **Auto-sensing** feature on the WiiM Amp Pro to automatically play your **Line In**, **Optical In**, or **HDMI ARC** source when the WiiM Amp Pro detects a signal. You can enable this feature from the WiiM Home app.*
- *The WiiM Amp Pro has a built-in EQ to process the audio input based on your taste. You can also control the audio volume using the WiiM Home app remotely without altering the input source volume.*
- *Some source devices may require a preamp. For example, some turntables do not have a built-in preamp, so you will need to connect your turntable to an external preamp first, and then connect the preamp to the WiiM Amp Pro.*

## Scenario 1: Analog Line In Audio Source Input (CD Player, Turntable with a Built-in Preamp, or PC)

The **Line In** interface on the WiiM Amp Pro is typically used to connect to a CD Player, Turntable with a built-in preamp, or PC to receive analog audio input.

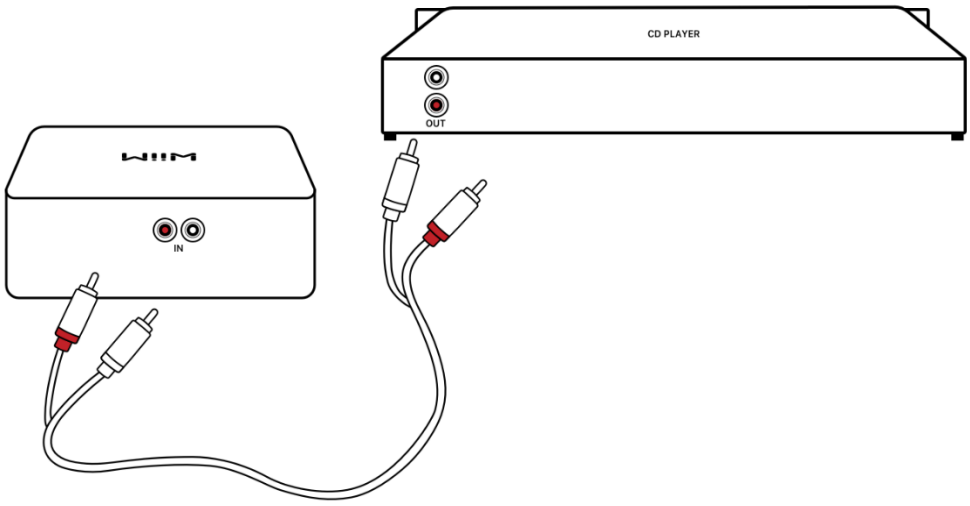
**Cable Requirement**: One of the following two types of cables might be used.

- An RCA-to-RCA cable as below:

- An Aux-to-RCA cable as below:

**Cable Connection Steps:**

1. Plug RCA connectors on one end of the cable into the **Line In** port on the WiiM Amp Pro.
2. Plug the other end of the cable into the **AUX** or **Line Out** port on your audio source (CD player, turntable, TV, or PC).


CD PLAYER
OUT
IN

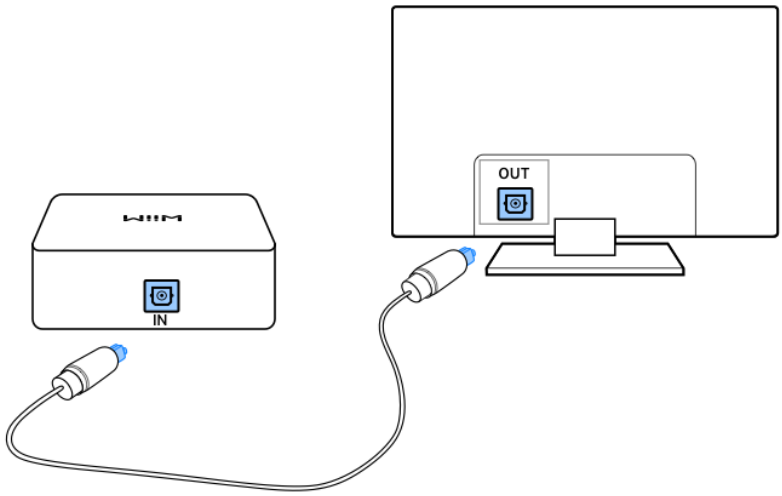
## Scenario 2: Optical In Audio Source Input (TV or PC)

The **Optical In** interface on the WiiM Amp Pro is typically used to connect to a TV or PC to receive audio input.

**Cable Requirement**: use a TOSLINK optical cable as below:

**Cable Connection Steps**

1. Plug one end of the TOSLINK cable into the **Optical In** port on the WiiM Amp Pro.
2. Plug the other end into the **Optical Out** port on the TV or PC.




***Note:** The **Optical In** interface on the WiiM Amp Pro only supports **PCM** and **Dolby Digital 5.1** audio formats. Please ensure that the audio source device connected to the WiiM Amp Pro is set to output audio in **PCM** or **Dolby Digital 5.1** format. Otherwise, you may not hear sound.*

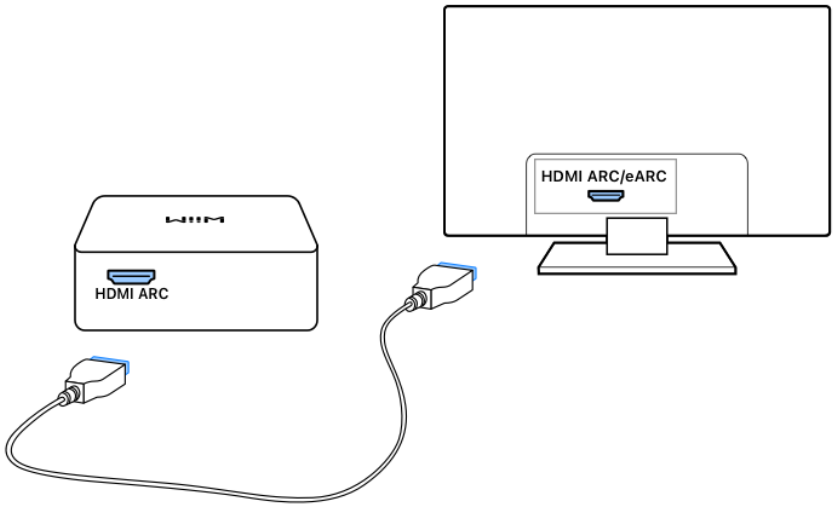
## Scenario 3: HDMI ARC Audio Source Input (TV)

The **HDMI ARC** interface on the WiiM Amp Pro is typically used to connect to a TV to receive audio input.

**Cable Requirement**: use an HDMI cable as below:

**Cable Connection Steps**

1. Plug one end of the HDMI cable to the **HDMI ARC** port on the WiiM Amp Pro.
2. Plug the other end of the cable to the **HDMI ARC/eARC** port on the TV.




***Note:*** *The **HDMI ARC** interface on the WiiM Amp Pro only supports **PCM** and **Dolby Digital 5.1** audio formats. Please ensure that the audio source device connected to the WiiM Amp Pro is set to output audio in **PCM** or **Dolby Digital 5.1** format. Otherwise, you may not hear sound.*

# Power On the WiiM Amp Pro

***Important Safety Warning****: Before connecting the power to the WiiM Amp Pro, it is crucial to first connect your speakers and any other audio ports. This sequence is important to safeguard both your equipment and the quality of your audio experience. By following this procedure, you ensure a safe and efficient setup process for the WiiM Amp Pro.*

For optimal performance of the WiiM Amp Pro, please ensure to use the AC power cable that is included with your device. This cable is specifically designed to support a wide range of voltages, accommodating 100-240V AC with a maximum current of 4A. This flexibility ensures that the WiiM Amp Pro can be safely and effectively powered in various locations.

After powering on the WiiM Amp Pro, wait 30 seconds for it to fully boot up before starting the setup process.

# Download and Install the WiiM Home App

- For an iOS or Android device, scan the following QR code to download the app:

- The beta version is also available for Windows and Mac OS. Download it here.

# Set Up the WiiM Amp Pro

You can set up the WiiM Amp Pro via Wi-Fi or Ethernet using the WiiM Home app. If you choose to connect via Wi-Fi, make sure you have the network password ready. This will ensure a smooth and efficient setup process.

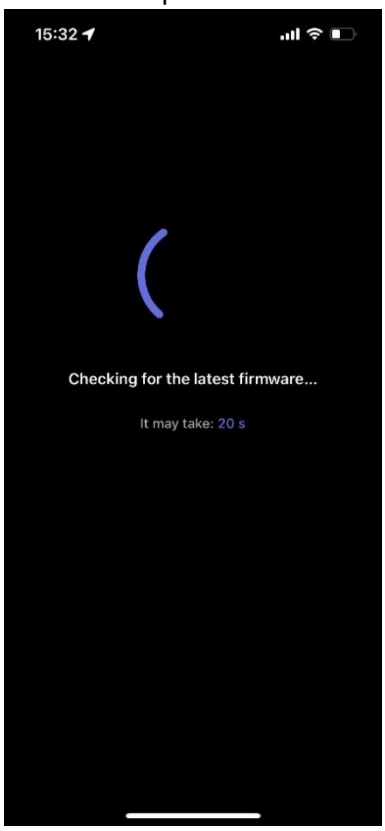
## WiiM Amp Pro Setup via Wi-Fi Using WiiM Home App

1. Open the WiiM Home app on your smartphone or tablet.
2. When the **Set Up** pop-up appears in the app, tap it to start the setup.

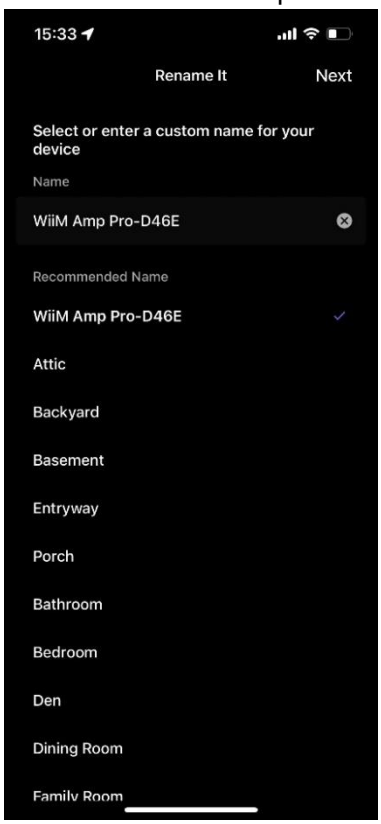
3. Follow the on-screen instructions to complete the setup:

a) Connect WiiM Amp Pro to the same Wi-Fi network as the WiiM Home app.

b) Check and update the firmware.

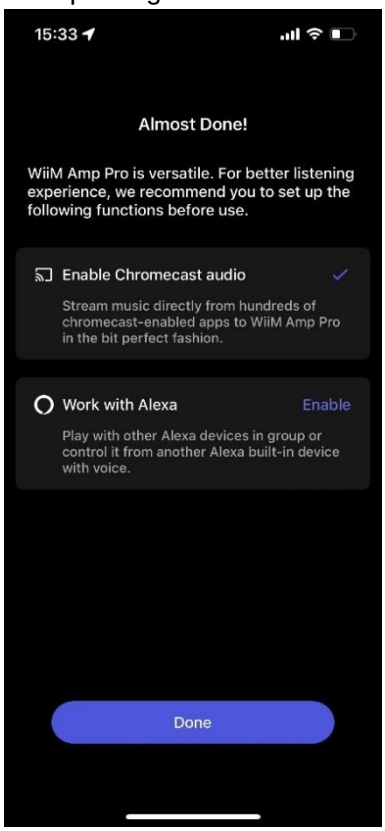


c) Rename the WiiM Amp Pro.



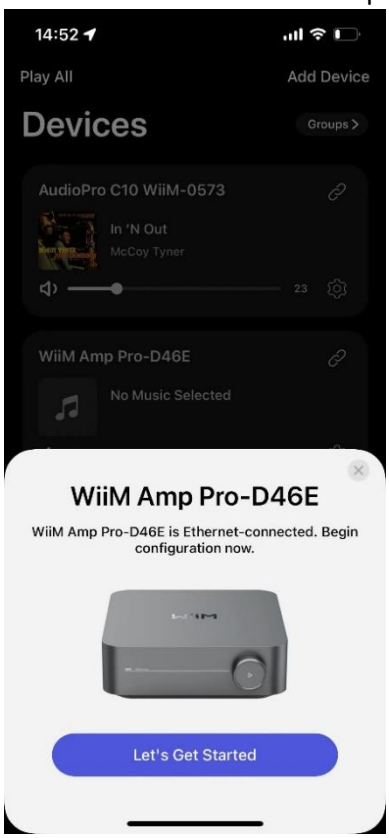

d) Set up the WiiM Voice Remote with the WiiM Amp Pro.
For detailed instructions, refer to [How to Set Up Your WiiM Voice Remote].

e) Set up Google Cast and Amazon Alexa.



## WiiM Amp Pro Setup via Ethernet Using WiiM Home App

1. Connect an Ethernet cable to the WiiM Amp Pro.
2. Open the WiiM Home app on your smartphone or tablet.
3. When the **Let's Get Started** pop-up appears in the app, tap it to start the setup.




4. Follow the on-screen instructions to complete the setup.

# Configure the WiiM Amp Pro in the WiiM Home App

Once the WiiM Amp Pro is set up, configure it in the WiiM Home app, including settings for audio input, audio output, subwoofer, room correction, and EQ adjustments.

For detailed instructions, see WiiM Amp Pro Configuration.

# Fill Your Home with Sound

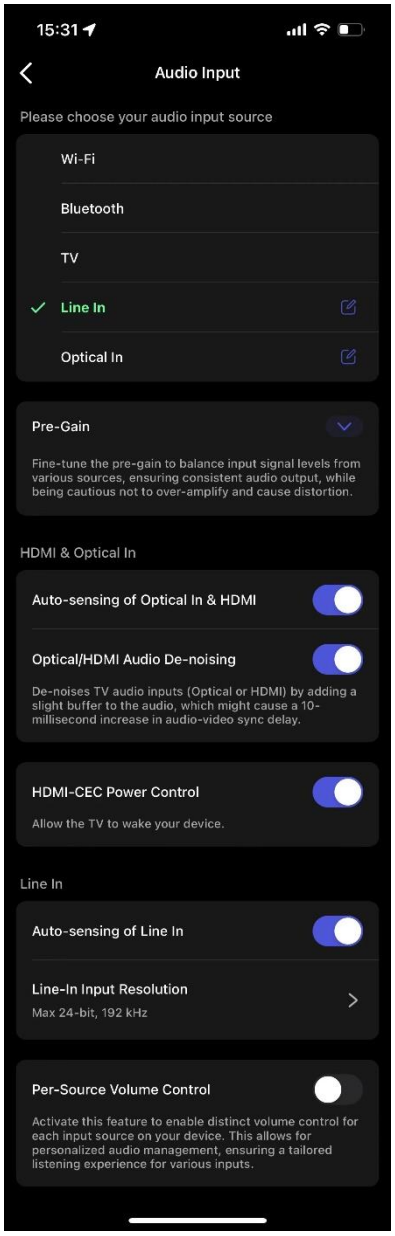
Now, play music from your favorite audio sources, including a TV, amplified turntable, CD player, or MP3 player. Alternatively, enjoy seamless streaming of your favorite music and radio stations over Wi-Fi or Bluetooth.

The WiiM Amp Pro can be grouped with other WiiM devices to create a synchronized music experience across your home. You can further expand your listening experience by grouping the WiiM Amp Pro with Alexa-enabled or Google Cast-enabled devices, enabling a seamless multi-room audio system. For more information, see Multi-room Audio and Stereo Pairing.

# 6. WiiM Amp Pro Configuration

## Select Audio Input Source and Configure Audio Input

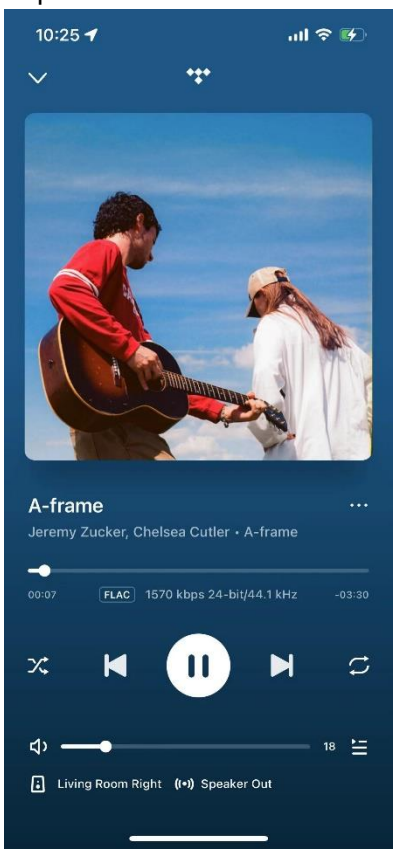
1. Open the WiiM Home app.
2. Navigate to the **Devices** tab.
3. Tap the **Device Settings** icon of the WiiM Amp Pro.
4. Under the **Sound** section, select **Audio Input**.
5. Select the audio input source.
6. Adjust other settings depending on your preference and selected input source:
    - Auto-sensing of Line, Optical In, and HDMI
    - Optical/HDMI Audio De-noising
    - Per-source Pre-Gain and Volume Control
    - Line-In Input Resolution
    - HDMI-CEC Power Control

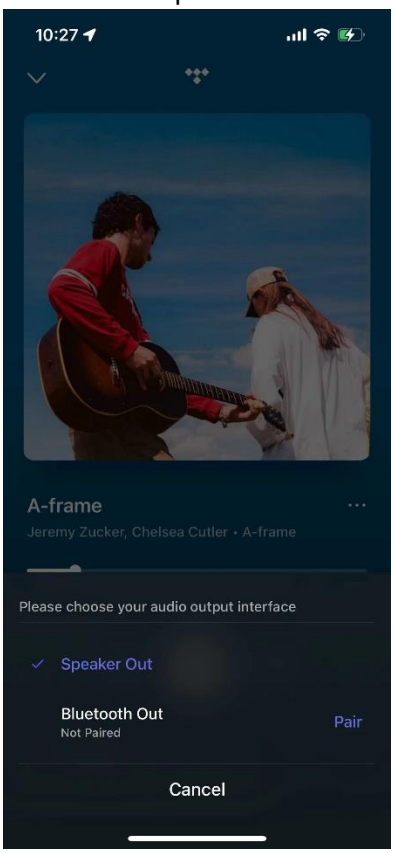

15:31
Audio Input
Please choose your audio input source
Wi-Fi
Bluetooth
TV
Line In
Optical In
Pre-Gain
Fine-tune the pre-gain to balance input signal levels from various sources, ensuring consistent audio output, while being cautious not to over-amplify and cause distortion.
HDMI & Optical In
Auto-sensing of Optical In & HDMI
Optical/HDMI Audio De-noising
De-noises TV audio inputs (Optical or HDMI) by adding a slight buffer to the audio, which might cause a 10-millisecond increase in audio-video sync delay.
HDMI-CEC Power Control
Allow the TV to wake your device.
Line In
Auto-sensing of Line In
Line-In Input Resolution
Max 24-bit, 192 kHz
Per-Source Volume Control
Activate this feature to enable distinct volume control for each input source on your device. This allows for personalized audio management, ensuring a tailored listening experience for various inputs.

# Select Audio Output Interface

### Option 1: Select Audio Output Interface from Now Playing

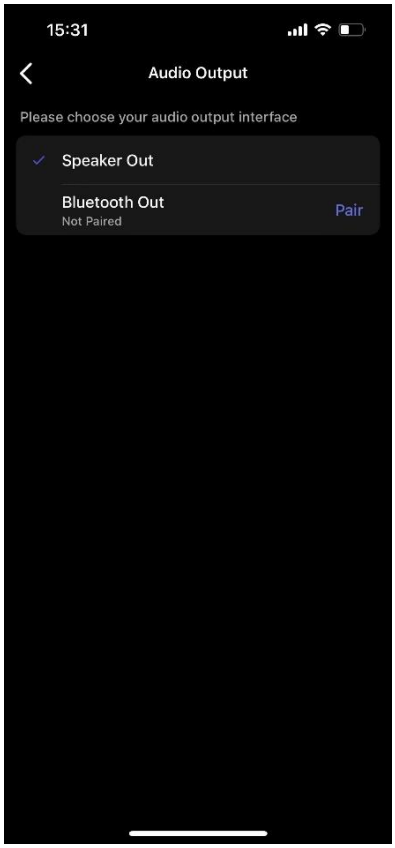
1. Open the WiiM Home app.
2. Go to the **Now Playing** page.
3. Tap the icon at the bottom and select the output interface.



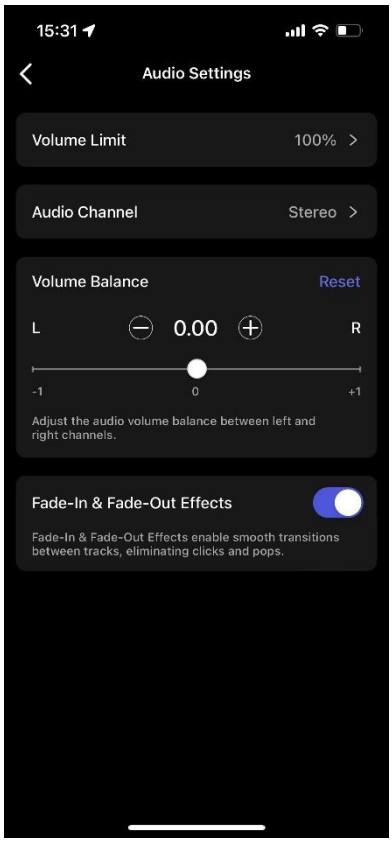
### Option 2: Select Audio Output Interface from Device Settings

1. Open the WiiM Home app.
2. Navigate to the **Devices** tab.
3. Tap the **Device Settings** icon of the WiiM Amp Pro.
4. Under the **Sound** section, tap **Audio Output**.
5. Select the output interface.



# Adjust Audio Output Settings

1. Open the WiiM Home app.
2. Navigate to the **Devices** tab.
3. Tap the **Device Settings** icon of the WiiM Amp Pro.
4. Under the **Sound** section, select **Audio Settings**.
5. Adjust audio output settings depending on your preference and output interface:
    - Volume Limit
    - Audio Channel
    - Volume Balance
    - Fade-In and Fade-Out Effects



# Adjust Subwoofer Settings

If you connect a subwoofer to the WiiM Amp Pro, go to **Device Settings** > **Subwoofer** in the WiiM Home app to enable and adjust the subwoofer settings. This will ensure the subwoofer operates seamlessly with your audio system for optimal sound quality.

For detailed instructions, refer to Tutorial: Tuning Subwoofer Settings on WiiM Devices for Optimal Sound Quality.

# Room Correction

You can use the Room Correction feature in the WiiM Home app to enhance audio quality by adapting to your room's unique acoustic properties. This feature minimizes unwanted audio issues such as echoes, reflections, and standing waves, delivering a more balanced and accurate listening experience.

For detailed instructions, see Room Correction Guide.

# Equalizer (EQ)

You can enhance your audio experience with the Per-Source EQ feature in the WiiM Home app.

Choose from 24 preset EQ settings for quick adjustments, utilize the 10-band Graphic EQ (GEQ) for intuitive control, or fine-tune your sound with the 10-band Parametric EQ (PEQ) for precise and detailed customization.

For detailed instructions, see EQ Guide.

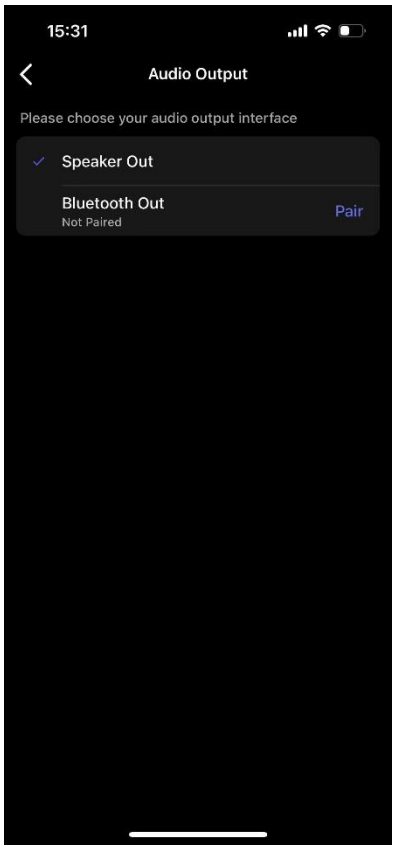
# 7. Audio Output/Input via Bluetooth

## Audio Output via Bluetooth

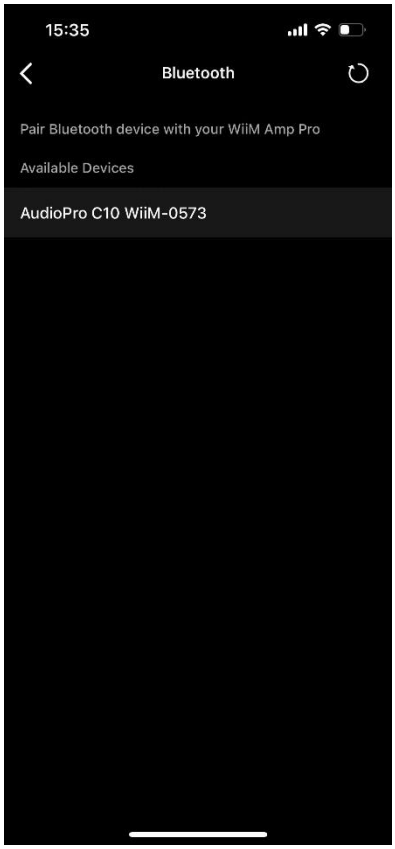
You can use the WiiM Amp Pro as a Bluetooth source device, enabling seamless pairing with your Bluetooth speaker, headphone, or earphone.

Follow these steps to complete the Bluetooth pairing procedure for audio output:

1. Open the WiiM Home app on your iOS or Android device.
2. Select the **Devices** tab.
3. Tap the **Device Settings** icon of the WiiM Amp Pro.
4. Select **Audio Output**, then tap **Pair** next to **Bluetooth Out** to initiate pairing.




5. Select the desired external Bluetooth device (e.g., a speaker) to pair.




You can also complete this procedure by selecting the Bluetooth output from the **Now Playing** page. For details, see Select Audio Output Interface.

# Audio Input via Bluetooth

With Bluetooth, you can stream tunes from various devices like smartphones, tablets, TVs, and laptops. To start streaming, first pair your device with the WiiM Amp Pro.

You can select any of the following options to pair your device with the WiiM Amp Pro:

- **Option 1: Bluetooth Pairing Using WiiM Voice Remote**

  Press and hold the **Play** button on the WiiM Voice Remote for 3 seconds or more to initiate pairing mode.

- **Option 2: Bluetooth Pairing Using WiiM Home App**

  If the WiiM Amp Pro is connected to your network, you can initiate Bluetooth pairing mode in the WiiM Home app by selecting **Bluetooth** as source input in the **Browse** tab.

  In this case, if there's no device connected to the WiiM Amp Pro, the app will initiate pairing mode for the WiiM Amp Pro automatically.

***Note**: The Bluetooth feature is compatible with A2DP and AVRCP profiles, and supports both SBC and AAC codecs.*

# 8. USB Media Library

The USB port on the WiiM Amp Pro allows you to play music directly from a connected USB drive or HDD, enabling convenient access to your stored music library.

For more details, refer to Building and Managing Your Advanced USB Media Library.

# 9. Voice Control

Navigate and control the WiiM Amp Pro with voice commands to search, play, stop, or skip music and more.

The WiiM Amp Pro supports the following voice control services:

- **Amazon Alexa**

  Refer to How to Use Amazon Alexa with Your WiiM Device for instructions.

- **Google Voice Assistant**

  Refer to How to Control WiiM Device via Google Assistant for instructions.

# 10. Direct Control via Your Favorite App

You can stream from your favorite apps directly to your WiiM Amp Pro with the following approaches.

## Spotify Connect

Spotify Connect is a way of playing Spotify through your wireless-compatible device over Wi-Fi or Ethernet. That means you can play your favorite tunes anywhere in the house without the need for convoluted Bluetooth pairing between devices whenever you want to listen to music.

Spotify Connect works from smart phone, tablet or PC that functions as a remote control for Spotify. Both free and premium account are supported. For more information, visit Spotify Connect.

Using Spotify Connect ensures the best audio quality and streaming experience on the WiiM Amp Pro.

### Multi-room and Stereo Pairing

To use Spotify Connect for multi-room or stereo pairing, follow these instructions:

1. Group multiple WiiM devices in the WiiM Home app. For instructions, see WiiM Multi-room Audio/Stereo Pairing.
2. Stream Spotify to the grouped WiiM devices. The group name will match the group master device.

### License Information

The Spotify Software is subject to third-party licenses found here:
https://www.spotify.com/connect/third-party-licenses

# TIDAL Connect

TIDAL is a global music streaming platform bringing fans closer to artists through unique experiences and the highest sound quality. Stream your favorite music seamlessly from the TIDAL app straight to your devices in the highest possible quality.

TIDAL Connect allows you to stream music from the TIDAL app to compatible devices. It's similar to Spotify Connect in that it lets users stream music to connected devices from within the app. This means you can use your smartphone or computer as a controller to play music on the WiiM Amp Pro.

### How to Use TIDAL Connect

1. Launch the TIDAL app on your mobile device.
2. Play a song and go to the **Now Playing** screen.
3. Tap the **Cast** icon at the top right.
4. Select your WiiM device from the list.

# Amazon Music Cast (Alexa Cast)

Alexa Cast is a feature that allows you to play and control music on any of your Alexa devices from your Amazon Music iOS or Android app. You can discover all your Alexa devices from your music app. Your devices do not need to be on the same Wi-Fi network as your mobile device. You can target any device from anywhere. Once you pick a target device, the music you selected on your app will start playing on the chosen device. You can now follow along on your app. When you tap skip on your app, your device skips to the next track. Your app becomes a remote control for the device.

### WiiM Amp Pro and Alexa Cast

The WiiM Amp Pro is one of the first devices that support Alexa Cast with bit-perfect output up to 192 kHz/24-bit. You can stream Amazon Music Ultra HD directly from the native Amazon Music app to the WiiM Amp Pro, delivering the highest possible audio quality.

### How to Use Alexa Cast

1. **Log In**: Ensure you are logged into your Amazon account for Alexa on the WiiM Home app.
2. **Update**: Have the latest version of the Amazon Music app.
3. **Cast Music**: On the **Now Playing** screen, tap the **Casting** icon in the top right.
4. **Select Device**: Choose the WiiM Amp Pro from the list.

### Control Options

- **Voice Control**: Use voice commands to control music on the device.
- **App Control:** Switch between voice and app control for convenience.
- **Stop Casting:** To stop casting and resume playing on your phone, open the device list and tap the **Disconnect** button.

### Amazon Alexa Multi-room Audio

Amazon Alexa can also be used for multi-room audio, allowing you to play music in sync on multiple speakers from compatible brands and the WiiM Amp Pro using the Amazon Alexa app.

For detailed instructions, see Amazon Alexa Multi-room Audio.

# Google Cast Audio

Google Cast audio allows you to instantly stream your favorite music, radio, or podcasts from Google Cast-enabled apps on your mobile device to your speakers over Wi-Fi or Ethernet.

### Setting Up Google Cast

1. **Enable Google Cast:**
   - Once you have set up the WiiM Amp Pro, enable Google Cast from the WiiM Home app.
2. **Stream Music:**
   - Open a compatible app (e.g., Spotify, Apple Music, TIDAL, Amazon Music, YouTube Music, Deezer) on your mobile device and tap the **Cast** button.
   - Select the WiiM Amp Pro and start streaming audio.
3. **Use Chrome Browser:**
   - Cast any audio from your Chrome browser by selecting the **Cast** option in the menu.

### Google Cast Multi-room Audio

Google Cast can also be used for multi-room audio, allowing you to play music in sync on multiple speakers from compatible brands and WiiM Amp Pro using the Google Home app.

For detailed instructions, see Google Cast Multi-room Audio.

# DLNA

DLNA (Digital Living Network Alliance) sets standards for home networking devices to communicate and share media files seamlessly. The WiiM Amp Pro is a DLNA-compatible digital media renderer (DMR). When a USB drive is plugged to the WiiM Amp Pro, it also functions as a Digital Media Server (DMS), allowing any DLNA-enabled client to access the music stored on the drive.

### How It Works

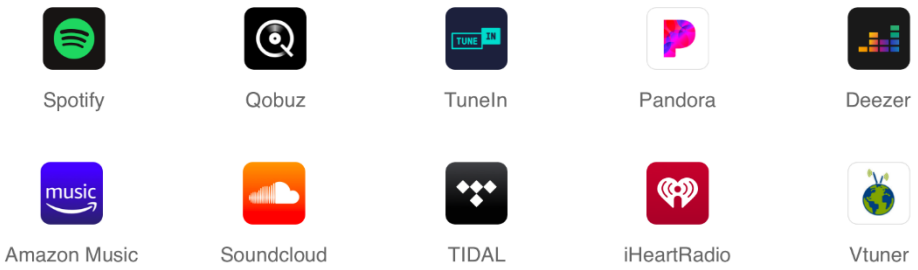
When connected to the same network as your other DLNA devices or apps, the WiiM Amp Pro automatically appears in the menus of these networked components. Your computer and other media devices will discover and recognize the WiiM Amp Pro without any additional setup.

### Controlling and Streaming

You can control the WiiM Amp Pro from other DLNA digital media players or controllers. Additionally, you can stream content from DLNA digital media servers directly to the WiiM Amp Pro, with no extra configuration required.

# 11. All Music in One App

With the free WiiM Home app, you can control your content and WiiM devices from one place. The app supports many popular music streaming services such as Spotify, iHeartRadio, TIDAL, Amazon Music, SoundCloud, Qobuz, Pandora, Deezer, TuneIn, and more.




The WiiM Home app offers the follow features:

- **Stream from Any Source**: Enjoy seamless playback from streaming services, NAS, or other connected storage.
- **All-in-One Control**: Manage your music services and devices effortlessly in a single app for complete, centralized control.
- **Customized Listening Experience**: Tailor your listening experience with adjustable EQ settings, sleep timers, and scheduled music alarms.
- **Effortless Discovery**: Instantly find and save your favorite tracks using WiiM's universal search, scanning through all your music sources.
- **Whole Home Music**: Enjoy multi-room music by grouping devices for synchronized playback or play different music on each speaker.
- **Built-in Support Center Access**: Quickly access our Support Center directly within the app, giving you instant assistance whenever you need it.

For more information, refer to WiiM Home App User Manual.

# 12. Multi-room Audio and Stereo Pairing

With the WiiM Amp Pro, it's easy to build your wireless multi-room sound system with other Amazon Echo (or Alexa built-in devices) or Google Home. You can create an even more flexible multi-room sound system with multiple WiiM devices and your existing audio devices.

***Notes:***

- *Alexa and Google Cast multi-room features support network-based music services only.*
- *To enable multi-room audio for other input sources, such as **Line-In**, **Optical-In**, **HDMI**, or **Bluetooth**, the multi-room group must consist exclusively of WiiM devices.*

## WiiM Multi-room Audio/Stereo Pairing

With our proprietary multi-room technology, the WiiM Amp Pro supports all types of audio inputs—Wi-Fi/Ethernet, Bluetooth, analog Line In, digital SPDIF In, and HDMI ARC—as sources for your multi-room system.

### WiiM Multi-room Setup

For example, to set up a multi-room system with the **Line In** source input, follow the steps below:

1. Insert the line-in cable into the **Line In** port on the WiiM Amp Pro.
2. Connect the other end of the cable to the **Line Out** port on your source device, e.g. a record player.
3. Open the WiiM Home app.
4. Go to the **Browse** tab, then under the **Source Input** section, select **Line In** as the audio source.
5. Set up a multi-room music group with the WiiM Amp Pro:
   a) Go to the **Devices** tab and select the WiiM Amp Pro connected to your source device.
   b) Tap the **Group** icon in the upper right corner of the device box.
   c) Choose other desired WiiM devices to include in the multi-room audio group.

Now, the music from the connected device will play across your multi-room music group.

You can follow the same procedure to set up a WiiM multi-room system with any other source input supported by your source device.

**WiiM Stereo Pairing**

In addition, you can group two speakers connected to two WiiM devices as a stereo pair for a wider, more immersive sound stage. This feature supports all input options, ensuring compatibility with virtually every music listening preference.

To use stereo pairing, follow the steps below:

1. Set up two WiiM devices.
2. Open the WiiM Home app.
3. Select a WiiM device and tap the **Group** icon in the upper right corner.
4. Select the other WiiM device, then tap **Done**.
5. Tap the icon and set the two WiiM devices to **L** and **R**, respectively.
6. Go to the **Browse** tab, then select your music to play.

# Amazon Alexa Multi-room Audio

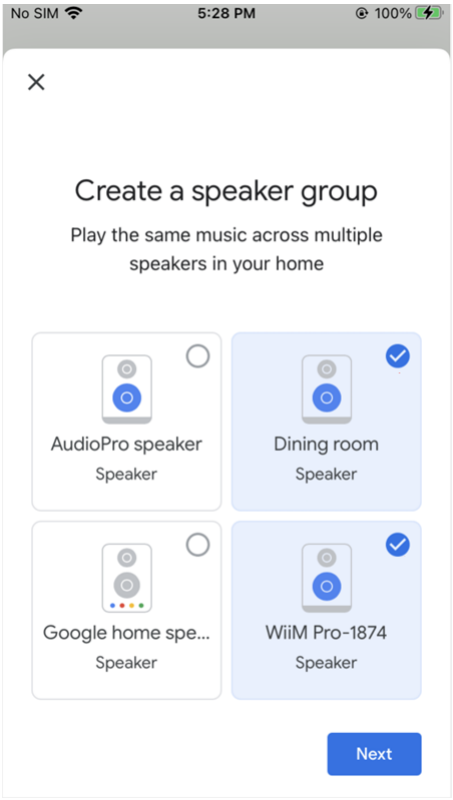
1. Open the Amazon Alexa app on your smartphone or tablet.
2. Tap **Devices** at the bottom of the screen.
3. Tap the **+** icon in the top right corner of the screen.
4. In the menu that appears, choose **Combine speakers,** then select **Multi-room music**.
5. Select the **Echo** and WiiM devices you want to include in your multi-room music setup, then tap **Next**.
6. Assign a group name for the multi-room music setup (e.g., "Bedroom").
7. Follow the on-screen prompts to complete the setup.

***Note**: When used with Amazon Echo or other Amazon devices, the WiiM Amp Pro functions as an audio receiver and cannot transmit its physical audio inputs (e.g., **Line In** or **Optical In**) to these Amazon devices over Wi-Fi.*

# Google Cast Multi-room Audio

You can group the WiiM Amp Pro with other Google Home or Google Cast enabled devices to play the same music on all devices via the Google Home app.

1. Open the Google Home app.
2. Tap the **+** icon in the top left corner.
3. Tap **Create speaker group** to create a speaker group.
4. Select the devices that are in the same network.




5. Assign a name to your group (e.g., "Living Room").
6. Stream music to the group.

***Note**: When using with Google Cast audio devices, the WiiM Amp Pro functions as an audio receiver and cannot transmit its physical audio inputs (e.g., **Line In** or **Optical In**) to these Google Cast audio devices.*

# 13. Advanced Features

## Firmware Updates

- The WiiM Amp Pro updates automatically when connected to your network
- Updates occur silently between 2:00 a.m. and 5:00 a.m. local time, with no sound or notifications during the process. Upon opening the app after the upgrade, you'll see the latest updates applied to the WiiM Amp Pro.

## Use Ethernet Instead of Wi-Fi

When an Ethernet cable is connected, the WiiM Amp Pro will automatically switch off Wi-Fi to use the Ethernet network.

To confirm the active connection:

1. Open the WiiM Home app.
2. Go to the **Devices** tab and tap the **Device Settings** icon of the WiiM Amp Pro.
3. Select **Network Status** to view the current network connection.

# 14. FAQ and Support

## FAQ

If you experience problems with the audio streamer, try these solutions first:

- **What can I do if my WiiM Home app can't find the device?**
  - Make sure your network is available and the device is powered on properly.
  - Check the LED on the device is solid white.
  - Make sure your smartphone/tablet and WiiM Amp Pro are connected to the same Wi-Fi network.
  - Make sure you have the latest version of the WiiM Home app on your device.
  - Try restarting your smartphone/tablet, WiiM Amp Pro, and router.
  - If still can't find, reconfigure the device to the network.

- **What can I do if my device has no sound?**

  If you are not getting any sound from your WiiM Amp Pro, make sure you have checked the following things:
  - **Volume Levels**: Ensure that the volume is turned up both in the WiiM Home app and on your external device (e.g., AV receiver) connected to the WiiM Amp Pro.
  - **Input Source**: Make sure the correct input source is selected on your receiver or device that corresponds to the output of the WiiM Amp Pro.
  - **Audio Output Selection**: Confirm that the correct audio output is selected in the WiiM Home app.
  - **Physical Connections**: Verify that all physical connections between the WiiM Amp Pro and your receiver or device are plugged in correctly and securely.

- **How can I reset my device?**
  - Press and hold the volume knob for 10 seconds until you will hear the voice prompts of "Restore to factory setting" and see the light flashing red and white.
  - Factory reset clears all source, volume, and network settings for the WiiM Amp Pro and returns it back to the original factory settings.

- **What can I do if my device cannot power on normally?**
  - Check the device LED status and ensure it’s on.
  - Ensure the original power cable is used.

# Support

If you are unable to resolve your issue, please follow one of the methods below to reach out to us for assistance:

- **WiiM Home app**: Go to **More** > **Feedback** or **More** > **FAQ** to submit a ticket. You will receive email response from WiiM Support in the next 24 hours.
- **FAQ Website**: Find more FAQ at https://faq.wiimhome.com/en/support/solutions.
- **Email**: Send an email to support@wiimhome.com for assistance.
- **WiiM Amp Pro Support Website**: Visit https://wiimhome.com/support/wiimAmp.

# 15. Important Safety Instructions

1. Read these instructions carefully.
2. Keep these instructions for future reference.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time
12. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as external power supply, 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.
13. To reduce the risk of fire or electrical shock, do NOT expose this product to rain, liquids or moisture.
14. Do NOT expose this product to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the product.
15. Keep the product away from fire and heat sources. Do NOT place naked flame sources, such as lighted candles, on or near the product.
16. Do NOT make unauthorized alterations to this product.
17. Do NOT use in vehicles or boats.
18. Use this product only with the power supply provided.
19. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. Due to ventilation requirements, does not recommend placing the product in a confined space such as in a wall cavity or in an enclosed cabinet.
21. Contains small parts which may be a choking hazard. Not suitable for children under age 3.

22. This product contains magnetic material. Consult your physician on whether this might affect your implantable medical device.
23. Do not place or install the bracket or product near any heat sources, such as fireplaces, radiators, heat registers, or other apparatus (including amplifiers) that produce heat.

# 16. CE/FCC/IC/TELEC Statements

**FCC/IC Statement:**

RF Exposure Information: The equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device complies with Part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: 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 radio equipment operates in 5150-5850MHz
High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage to LE LAN (Licence-Exempt Local Area Network) devices. No configuration controls are provided for this wireless equipment allowing any change in the frequency of operations outside the FCC grant of authorization for US operation according to Part 15.407 of the FCC rules.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit; for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation

as appropriate.

Transmitters in the 5.925-7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

**Énoncé d'exposition aux rayonnements FCC/IC**

L'équipement est conforme aux limites d'exposition aux rayonnements FCC/IC RSS-102 établies pour un environnement non contrôlé. L'équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les radars de puissance élevée sont attribués comme utilisateurs principaux des fréquences de 5,25 à 5,35 GHz et Bandes de 5,65 à 5,85 GHz. Ces stations radar peuvent causer des interférences avec Et/ou dommages aux périphériques LE LAN (réseau Local exempté de licence). Non non Des contrôles de configuration sont fournis pour cet équipement sans fil permettant toute Modification de la fréquence des opérations en dehors du FCC octroi d'autorisation Pour les opérations américaines conformément à la partie 15.407 des règles de la FCC.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux; le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.; le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
Il est interdit d'utiliser les émetteurs de la bande de 5,925 à 7,125 GHz pour contrôler les systèmes d'aéronef sans pilote ou communiquer avec eux.

**CAN ICES-003(B)/NMB-003(B)**

IC: 30828-AMP002
FCC ID: 2BABF-AMP002

**CE Statement:**

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and the human body.
Do not use the device in the environment at too high or too low temperature,
never expose the device under strong sunshine or too wet environment.
The suitable temperature for the product and accessories is 0℃-40℃.

**Operating frequency range and maximum transmit power**

Bluetooth: 2402MHz ~ 2480MHz, <10.0 dBm(EIRP)
WLAN 2.4GHz: 2412MHz ~ 2472MHz, <20 dBm(EIRP)
WLAN 5GHz: 5150MHz ~ 5825MHz, <20 dBm(EIRP)
WLAN 6GHz: 5955MHz ~ 6415MHz, <20 dBm(EIRP)
The device for operation in the band 5150-5350 MHz and 5955-6415MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AT | BE | BG | CH | CY | CZ | DE | DK |
| EE | EL | ES | FI | FR | HR | HU | IE |
| IS | IT | LI | LT | LU | LV | MT | NL |
| PL | PT | RO | SE | SI | SK | TR | UK(NI) |
| UK | | | | | | | |

**This product can be used across EU member states.**

**EU Regulatory Conformance**
Hereby, Linkplay Technology Inc. Corporation declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
For the declaration of conformity, visit the Web site https://www.wiimhome.com/certificaton.

CE

**TELEC Statements**
According to radio law, the 5.2/5.3/6GHz band is limited to indoor use.
電波法により 5.2/5.3/6 GHz 帯は屋内使用に限ります.

**WARNING (For Remoter)**
- Replacement of a battery with an incorrect type may defeat a safeguard,
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, may result in an explosion;
- Leaving a battery in an extremely high temperature surrounding environment, such as sunshine. fire, or hot surface may result in an explosion or the leakage of flammable liquid or gas;

- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.