WiiM Vibelink Amp: Stereo Amplifier

Unleash the Power of Pure Sound

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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 Vibelink Amp – a powerful amplifier designed for uncompromising audio performance and seamless integration with your home theater and music streaming systems. It delivers up to 100W per channel at 8 ohms, providing exceptional power for a variety of passive speakers. Whether you're using compact bookshelf speakers or large floor-standing models, Vibelink effortlessly drives them with precision, ensuring a rich, immersive audio experience at any volume

The WiiM Vibelink Amp is meticulously engineered for outstanding audio performance. It features a premium ESS ES9039Q2M DAC for precise digital-to-analog conversion. For analog sources, a dedicated pure analog input path bypasses any unnecessary conversion to maintain the original signal's integrity. Furthermore, advanced Post-Filter Feedback (PFFB) technology minimizes distortion throughout the amplification process. With an impressive Signal-to-Noise Ratio (SNR) of 120 dB (A-weighted) and Total Harmonic Distortion plus Noise (THD+N) of -105 dB, it delivers pristine audio reproduction and superior sound quality.

The WiiM Vibelink Amp ensures bit-perfect playback with support for variable input sample rates up to 192kHz/24-bit, preserving the original audio signal without unnecessary conversions or resampling. It also ensures smooth transitions across variable sample rates and bit depths, effectively preventing unwanted noise or disruptions—ideal for audiophiles and music purists.

Additionally, the WiiM Vibelink Amp offers seamless integration with the entire WiiM system. Simply connect the WiiM Vibelink Amp to a WiiM streamer (e.g., WiiM Mini, WiiM Pro, WiiM Pro Plus, and WiiM Ultra) to unlock flawless streaming.

With its powerful amplification and audiophile-grade processing, the WiiM Vibelink Amp delivers rich bass, clear mids, and sparkling highs, transforming your music into a dynamic, lifelike performance. Whether you’re enjoying high-fidelity music or enhancing TV audio, the WiiM Vibelink Amp elevates your high-resolution audio experience like never before.

Typical Use Cases

The WiiM Vibelink Amp is designed to enhance your existing audio setup with the powerful amplification capabilities and superior sound quality. Here are a few common use cases for the WiiM Vibelink Amp:

- **Power Your Favorite Passive Speakers:** Connect and power your traditional wired passive speakers, including bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers.

- **High-Quality Audio**: The WiiM Vibelink Amp supports bit-perfect, high-resolution audio formats and delivers rich, detailed sound, enhancing the listening experience of your existing audio system.

- **Audio System Integration**: The WiiM Vibelink Amp offers a range of analog and digital input interfaces, making it easy to connect various audio devices—such as a turntable or CD player—into one seamless system.

- **WiiM System Integration:** Easily integrate the WiiM Vibelink Amp into your WiiM system by connecting it to a WiiM streamer's output, such as a WiiM Mini or WiiM Ultra. Once connected, it seamlessly receives streaming audio, delivering a unified, high-quality listening experience.

- **Home Theater Integration**: Elevate your entertainment experience effortlessly with the WiiM Vibelink Amp's Optical In interface. Plug in your TV and immerse yourself in rich stereo sound for shows, movies, and video games.

Other Devices Needed to Use the WiiM Vibelink Amp

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

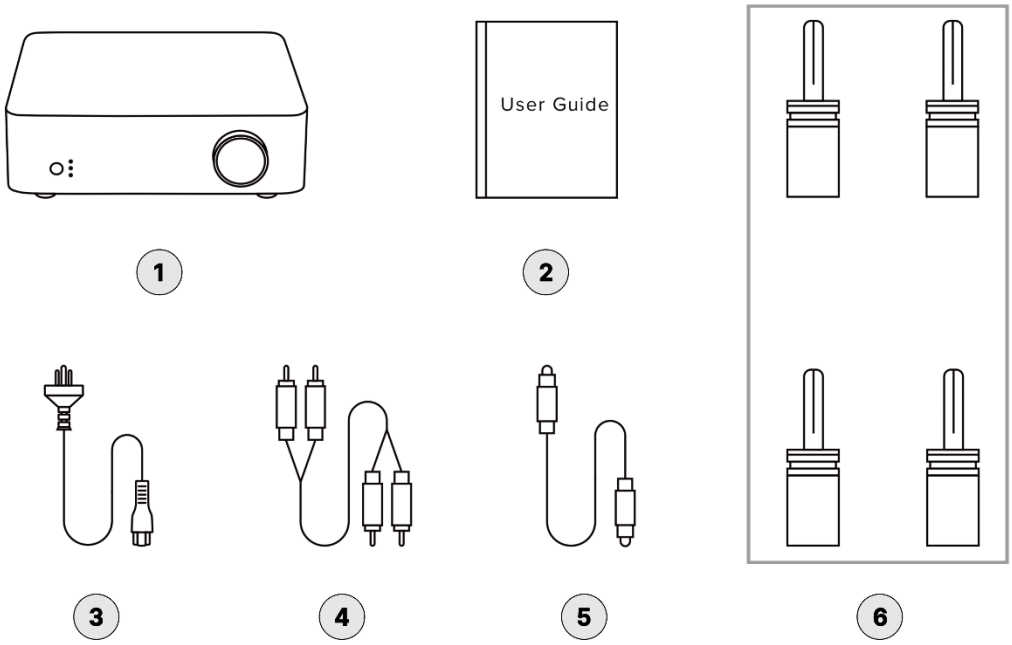
- **Passive Speakers:** The WiiM Vibelink Amp is designed to connect to your passive speakers such as bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers. Make sure you have the appropriate speakers in place.
- **A WiiM Streamer**: The WiiM Vibelink Amp is designed to seamlessly connect with a WiiM streamer, including the WiiM Mini, WiiM Pro, WiiM Pro Plus, and WiiM Ultra.
- **Third-party Audio Source**: The WiiM Vibelink Amp can also connect to third-party audio sources via analog or digital interfaces, such as a CD player or turntable.
- **Power Source**: The WiiM Vibelink Amp 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.

Audio Devices Work with the WiiM Vibelink Amp

The WiiM Vibelink Amp can work with your passive speakers, including bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers. It can play audio from a WiiM streamer—such as the WiiM Mini, WiiM Pro, WiiM Pro Plus, or WiiM Ultra—as well as from other sources like a TV or CD player.

2. What's in the Box

1. WiiM Vibelink Amp x 1
2. Quick start guide x 1
3. 100~240V AC power cable x 1
4. RCA audio cable x 1
5. Optical cable x 1
6. Speaker banana plugs x 4



3. Technical Specifications

Category	Specification
Audio Amplification	TI TPA3255 Class-D with PFFB (Post-Filter Feedback) technology
DAC IC	ESS ES9039Q2M
Analog Out SNR	120 dB
THD+N (Analog Out)	-105 dB (0.0005%)
Audio Input Ports	RCA In: ● Pure analog signal path (no ADC conversion)
	Optical In: ● Up to 192kHz/24-bit ● Supports Stereo PCM, but not Dolby Digital or DTS
	COAX In: ● Up to 192kHz/24-bit ● Supports Stereo PCM, but not Dolby Digital or DTS
Audio Output Ports	Speaker Out: ● Four gold-plated binding posts (supports banana plugs or bare wire connections) ● 100 Watts/channel at 8Ω or 200 Watts/channel at 4Ω
12V Trigger In	3.5 mm port
Auto Standby Mode	Automatically enters standby mode after 30 minutes of inactivity.
LED	Three RGB LEDs indicates source input and device status
Control	Volume knob, mode switch, power on/off
Weight	2.05 kg (4.5 lbs)
Dimension	7.9 x 7.9 x 2.58 in (200 x 200 x 63 mm)
Power Input	100-240V AC input, 50/60Hz, 3A Max

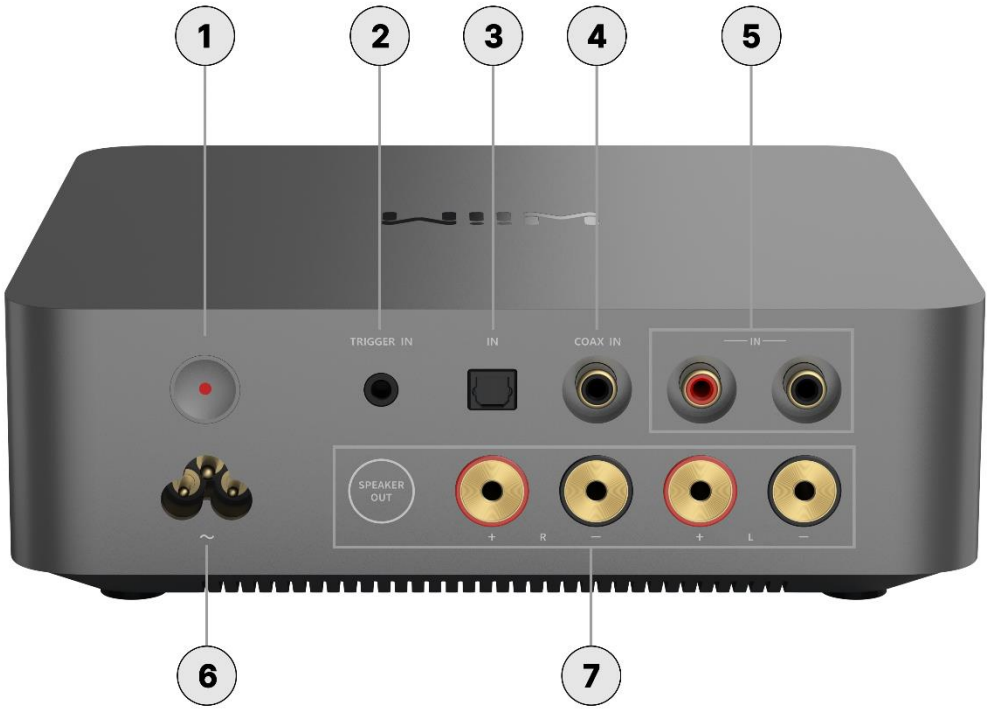
4. WiiM Vibelink Amp Controls, Interfaces, and Lights

Front Panel Controls and Lights

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

1	**Mode Switch**	Press to switch the input mode between Coax, Optical, and RCA.
2	**LED Indicators**	Three RGB LEDs indicate source input and device status. For more information, see LED Status Light.
3	**Volume Knob**	Rotate to adjust the volume level, with an indicator showing the current level.

Back Panel Controls and Interfaces



Each numbered control or interface on the back panel is explained below:

1	**Power**	Tap to enter or exit standby. Press and hold for 2 to less than 5 seconds to power on/off. Press and hold for 5 seconds or more to restore to factory settings. ***Note**: The WiiM Vibelink Amp automatically enters standby mode after 30 minutes of inactivity.*
2	**12V Trigger In**	Allows external devices (e.g., a WiiM Ultra) to control the power on/standby of the WiiM VibeLink Amp.
3	**Optical In**	For connecting digital audio sources (e.g., a WiiM Mini, WiiM Pro, WiiM Ultra, or TV) using an optical cable.

4	**COAX In**	For connecting digital audio sources (e.g., a WiiM Pro or WiiM Ultra) using a coaxial cable.
5	**RCA In**	Two RCA jacks (red and black) for connecting analog audio sources (e.g., a WiiM Pro, WiiM Ultra, or CD player) with an RCA cable.
6	**Power Input**	100-240V AC, 50/60Hz, 3A Max
7	**Speaker Output**	Four speaker out jacks (R+, R-, L+, L-) to connect passive speakers using banana plugs, spade connectors, or bare wire.

LED Status Light

LED Color/Pattern		**State**
Slow Flashing White on Coax Mode		Boot-up
Solid Light Green		RCA-in mode
Solid Orange		Optical-in mode
Solid Purple		Coax-in mode
Slow Flashing White and Green on Current Input Mode		OTA
Slow Flashing White and Red on Current Input Mode		Restore to factory settings
Slow Flashing Red on Current Input Mode		Faulty error

Notes: *In standby mode, the LED light will dim to half brightness. In sleep mode, the LED light will turn off.*

5. How to Get Started

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

1. Connect the WiiM Vibelink Amp to passive speakers.
2. Connect the WiiM Vibelink Amp to an audio input source.
3. Power on the WiiM Vibelink Amp.
4. Set input mode on the WiiM Vibelink Amp.

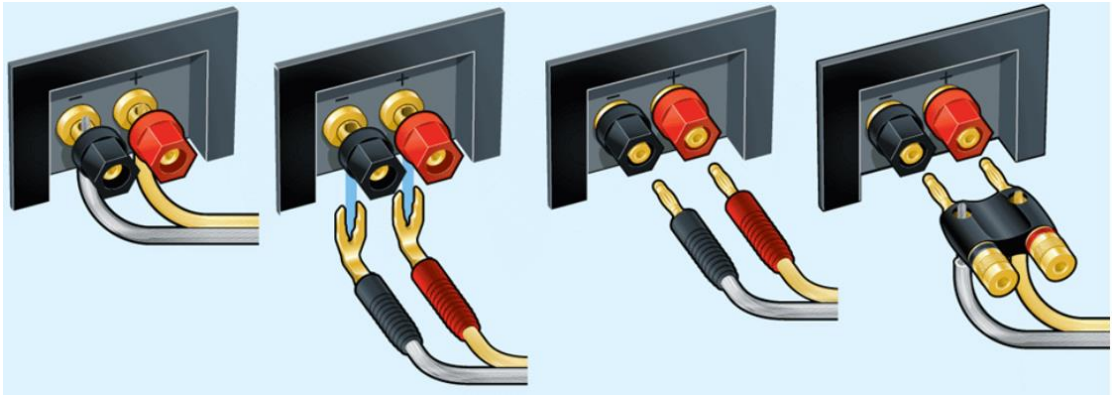
By completing these steps, your WiiM Vibelink Amp will be ready for use. The following sub-chapters will provide detailed instructions for each step.

Connect the WiiM Vibelink Amp's Audio Output

The WiiM Vibelink Amp features the **Speaker Out** interface, which is designed to connect to passive speakers.

Cable Requirement: Use two speaker cables.

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

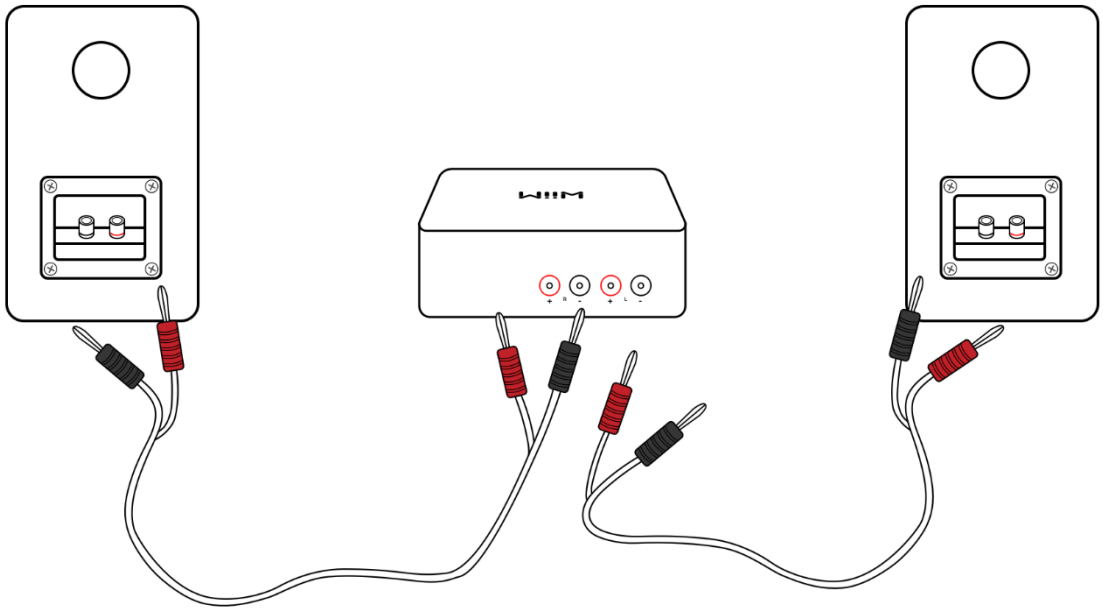


***Note**: Banana plugs are recommended for the best sound and more reliable performance.*

Cable Connection Steps:

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

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



Connect the WiiM Vibelink Amp's Audio Input

The WiiM Vibelink Amp features three distinct audio input interfaces:

- Analog RCA In
- Digital Optical In
- Digital COAX In

The WiiM Vibelink Amp functions as a high-performance amplifier. It can directly stream both analog and digital audio from sources such as CD players, vinyl turntables, and TVs. Alternatively, when connected to a WiiM streamer (e.g., the WiiM Mini, WiiM Pro, WiiM Pro Plus, or WiiM Ultra), it integrates seamlessly into the WiiM system, enabling a seamless streaming and high-fidelity audio experience.

Note: *The **Optical In** and **COAX In** interfaces on the WiiM Vibelink Amp support **PCM** audio format only. Please ensure that the audio source device connected to the WiiM Vibelink Amp is set to output audio in **PCM** format. Otherwise, you may not hear sound.*

Scenario 1: Analog RCA In Audio Source Input (WiiM Streamer, CD Player, Turntable with Preamp)

The **RCA In** interface on the WiiM Vibelink Amp is typically used to connect to a WiiM streamer (e.g., WiiM Pro Plus, WiiM Ultra), CD Player, turntable with a preamp to receive analog audio input.

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

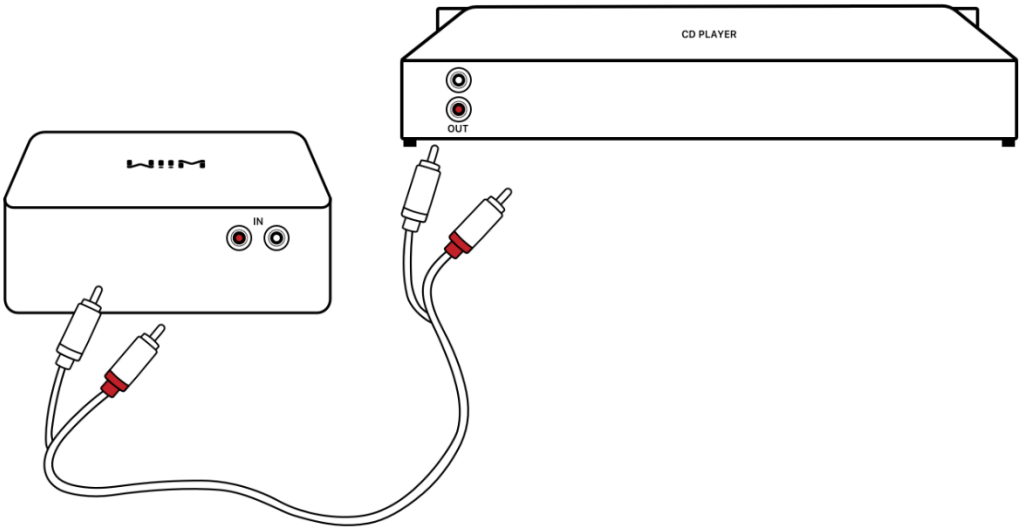
- An RCA-to-RCA cable as below:

- An Aux-to-RCA cable as below:

Cable Connection Steps:

1. Plug RCA connectors on one end of the cable into the **RCA In** port on the WiiM Vibelink Amp.
2. Plug the other end of the cable into the **AUX Out** or **RCA Out** port on your audio

source.



Scenario 2: Optical In Audio Source Input (WiiM Streamer, TV, CD Player)

The **Optical In** interface on the WiiM Vibelink Amp is typically used to connect to a WiiM streamer (e.g., WiiM Mini, WiiM Pro, WiiM Ultra), TV, CD player to receive digital audio input.

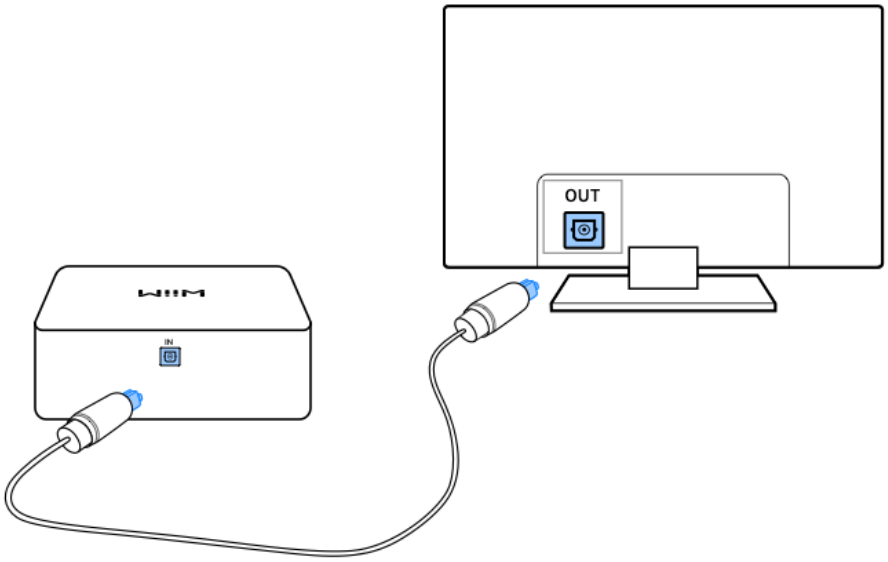
Cable Requirement: use a TOSLINK optical cable as below:

Cable Connection Steps

1. Plug one end of the optical cable into the **Optical In** port on the WiiM Vibelink Amp.

   ***Note**: Please ensure the insertion direction of the optical cable matches the port. Incorrect insertion may damage the optical door.*

2. Plug the other end of the cable into the **Optical Out** port on the TV or PC.



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

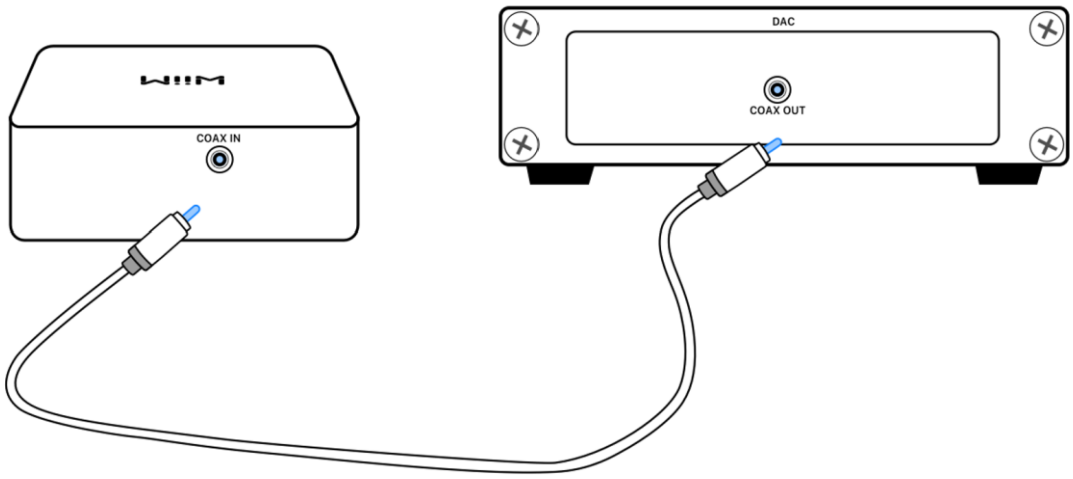
Scenario 3: COAX In Audio Source Input (WiiM Streamer, CD Player, DAC)

The **COAX In** interface on the WiiM Vibelink Amp is typically used to connect to a WiiM streamer (e.g., WiiM Pro, WiiM Pro Plus, WiiM Ultra), CD player, or DAC to receive digital audio input.

Cable Requirement: Use a coaxial digital audio cable with 75-ohm impedance as below

Cable Connection Steps:

1. Plug one end of the coaxial cable to the **COAX In** port on the WiiM Vibelink Amp.
2. Plug the other end of the cable to the **COAX Out** port of your external device.



***Note:** The **COAX In** interface on the WiiM Vibelink Amp supports **PCM** audio format only. Please ensure that the audio source device connected to the WiiM Vibelink Amp is set to output audio in **PCM** format. Otherwise, you may not hear sound.*

Use 12V Trigger In

The WiiM Vibelink Amp features a 3.5mm **12V Trigger In** port that automatically activates the amplifier or places it in standby mode based on the power status of a connected audio device (e.g., WiiM Ultra). This seamless integration streamlines your system's operation and reduces energy consumption.

To use this function, simply connect the WiiM Vibelink Amp's **12V Trigger In** port to the external device's **12V Trigger Out** port using a compatible 12V trigger cable.

***Note**: The WiiM Vibelink Amp supports 3.5 mm Mono TS and 3.5 mm Stereo TRS cables.*

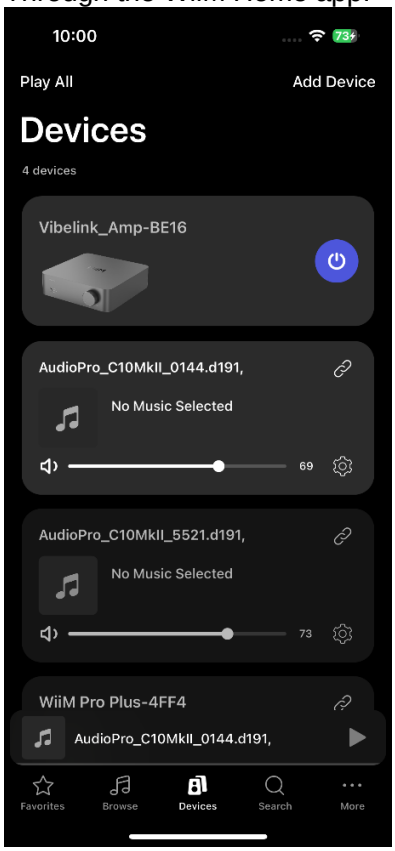
Power Control and Sleep Mode

The WiiM Vibelink Amp features power control to improve energy efficiency.

When put into standby via the 12V trigger input, the WiiM Vibelink Amp will automatically enter sleep mode after 30 minutes, reducing power consumption to just 0.5W.

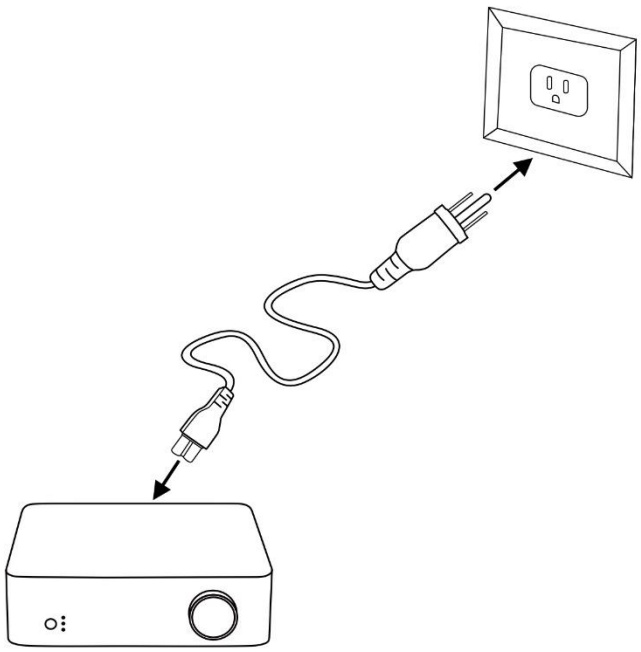
While in sleep mode, the WiiM Vibelink Amp can be awakened in any of the following ways:

- Via the 12V trigger input.
- By tapping the **Power** button. For details, see Front Panel Controls and Lights.
- Through the WiiM Home app.



Power On the WiiM Vibelink Amp

***Important Safety Warning**: Before connecting the power to the WiiM Vibelink Amp, 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 Vibelink Amp.*



Use the supplied AC power cable to connect the WiiM Vibelink Amp to a power outlet. This cable is specifically designed to support a wide range of voltages, accommodating 100-240V AC, 50/60 Hz with a maximum current of 3A. This flexibility ensures that the WiiM Vibelink Amp can be safely and effectively powered in various locations.

Once plugged into a power source, the WiiM Vibelink Amp will automatically power on.

Set Input on the WiiM Vibelink Amp

Press the **Mode Switch** button on the WiiM Vibelink Amp to select the input mode corresponding to the interface used to connect your audio source. For details, see Front Panel Controls and Lights.

***Note**: Make sure to select the correct input mode. Otherwise, you may not hear sound.*

Play and Enjoy Music at Home

Once the above connections and settings are complete, it's time to immerse your space in rich, high-quality audio.

Simply play music from your favorite audio sources, such as a TV, WiiM streamer, amplified turntable, CD player and enjoy crisp, immersive sound that elevates your home listening experience.

6. FAQ and Support

FAQ

If you experience problems with the WiiM Vibelink Amp, try these solutions first:

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

  Please check the following:

  - **Input Selection**: Ensure the correct input source is selected on the WiiM Vibelink Amp.
  - **Cable Connections**: Verify that cable connections between the WiiM Vibelink Amp and your audio source are plugged in correctly and securely.
  - **Speaker Wires**: Ensure proper polarity—connect the red wire to the positive terminal (+) and the black wire to the negative terminal (-).

- **What can I do if I experience low or distorted sound?**

  Please check the following:

  - **Volume Levels**: Ensure that the volume is properly adjusted on both the audio source and the WiiM Vibelink Amp.
  - **Audio Format**: If using digital input, ensure the audio source is set to **PCM** output as some formats may not be supported.

- **How can I reset my device?**

  Press and hold the **Power** button on the back panel for 5 seconds until you see the LED indicator flashing white and red.

- **What can I do if my device cannot power on normally?**

  Please check the following:

  - Check the device LED 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 Vibelink Amp Support**: https://www.wiimhome.com/support/wiimvibelink.

7. Important Safety Instructions

IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

1. Read these instructions.
2. Keep these instructions.
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 the product.
17. Do not use in vehicles or boats.
18. Use this product only where the power supply is provided.
19. Where this unit or the appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. Due to ventilation requirements, do not recommend placing the product in a confined space such as 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.
24. By means of a power cord connected to a socket-outlet with earthing connection.

8. CE/FCC/IC Statements

FCC/IC Statement:

This device complies with part 15 of the FCC rules. 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.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada RSS exempts de licence standard(s). Son fonctionnement est soumis aux deux conditions suivantes:
(1) cet appareil ne doit pas produire d'interférences, et
(2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Statement:

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°C–40°C.

This product can be used across EU member states.

EU Regulatory Conformance

Hereby, Linkplay Technology Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of EMC directive 2014/30/EU and LVD directive 2014/35/EU.

For the declaration of conformity, visit the Web site www.wiimhome.com/certification.