

## HONGXING HX-168AH

# HONGXING HX-168AH 2.1ch Hi-Fi Stereo Audio Amplifier User Manual

## 1. OVERVIEW

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Thank you for choosing the HONGXING HX-168AH 2.1ch Hi-Fi Stereo Audio Amplifier. This amplifier is an enhanced version designed to deliver high-quality audio performance in a compact form factor. Its robust aluminum alloy body ensures efficient heat dissipation, contributing to stable and reliable operation. This manual provides essential information for setting up, operating, and maintaining your amplifier.



Figure 1: Front view of the HONGXING HX-168AH amplifier.

## 2. PRODUCT FEATURES

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- **High Power Output:** Delivers a maximum effective output of 300W + 300W + 150W (2.1ch).
- **Premium Construction:** Features a durable aluminum alloy body for excellent heat dissipation.
- **High-Quality Audio:** Advanced power circuit design and signal processing ensure clear, high-quality bass and overall sound.
- **Stable Operation:** Includes a 12V/5A AC adapter for consistent and stable performance.
- **Versatile Connectivity:** Supports RCA audio input and 2.1 channel speaker output, including a dedicated subwoofer output.

## 3. PACKAGE CONTENTS

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Please check the package for the following items:

- HONGXING HX-168AH 2.1ch Hi-Fi Stereo Audio Amplifier
- 12V/5A AC Power Adapter
- Direct Connection Power Cable



Figure 2: Amplifier and included accessories.

## 4. CONTROLS AND INDICATORS

Familiarize yourself with the controls and indicators on your amplifier:



Figure 3: Labeled front and rear panels of the amplifier.

### Front Panel:

- **Power Switch (ON/OFF):** Turns the amplifier on or off.
- **Input Selector (RCA/BT/OFF):** Switches between RCA input, Bluetooth mode, or turns the unit off.
- **Bass Control:** Adjusts the low-frequency output.
- **Middle Control:** Adjusts the mid-range frequency output.

- **Treble Control:** Adjusts the high-frequency output.
- **Volume Control (MIN/MAX):** Adjusts the overall output volume.

### Rear Panel:

- **AUDIO IN (RCA L/R):** Connect your audio source (e.g., CD player, computer) using RCA cables.
- **LINE OUT (3.5mm AUX):** Output for connecting to active devices like other amplifiers, active subwoofers, or active speakers.
- **SPK OUT (L/R):** Connect your passive stereo speakers. Ensure correct polarity (+/-).
- **SUB OUT:** Connect to an active subwoofer for enhanced bass.
- **POWER (DC 12-24V):** Connect the provided AC power adapter.
- **RF Antenna:** For Bluetooth connectivity.

## 5. CONNECTIONS

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Follow these steps to connect your amplifier to your audio system:

1. **Connect Audio Source:** Use an RCA audio cable to connect your audio source (e.g., computer, smartphone with adapter) to the **AUDIO IN (RCA L/R)** ports on the rear panel. Ensure red connects to red (right channel) and white connects to white (left channel).
2. **Connect Passive Speakers:** Connect your passive speakers to the **SPK OUT (L/R)** terminals. Pay close attention to polarity: connect the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier to the negative (-) terminal of the speaker.
3. **Connect Active Subwoofer (Optional):** If you are using an active subwoofer, connect it to the **SUB OUT** port using an appropriate cable. This will create a 2.1 channel amplifier system.
4. **Connect Power:** Connect the provided 12V/5A AC power adapter to the **POWER (DC 12-24V)** input on the rear panel. If the included 5A adapter does not provide sufficient output for your setup, please use a higher output adapter (sold separately) or connect the included power cord directly to a compatible power source.
5. **Attach Bluetooth Antenna:** If using Bluetooth, screw the provided antenna into the **RF** port on the rear panel and adjust its position for optimal signal reception.



Figure 4: Rear panel connections.

### Connection Demonstration Video (AIYIMA A01 Pro)

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This video demonstrates the setup and connection methods for a similar 2.0/2.1 channel amplifier, including RCA input, speaker output, and power connection. It also highlights the internal components and tone controls.

### Subwoofer and Bluetooth Connection Demonstration Video (AIYIMA A03)

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This video illustrates the connection of a subwoofer amplifier to a subwoofer speaker and the process of connecting via Bluetooth for a 2.1 channel audio system.

## 6. OPERATION

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1. **Power On:** Flip the Power Switch to the 'ON' position. The power indicator will illuminate.
2. **Select Input Mode:** Use the Input Selector switch to choose between 'RCA' for wired audio input or 'BT' for Bluetooth.
3. **Bluetooth Pairing:** If selecting 'BT' mode, the amplifier will enter pairing mode. On your mobile device, search for Bluetooth devices and select "BT HIFI AUDIO" to connect. Once connected, you can play audio from your device.

4. **Adjust Audio:** Use the Bass, Middle, Treble, and Volume control knobs to fine-tune your sound preferences.
5. **Power Off:** When finished, flip the Power Switch to the 'OFF' position.

## 7. SPECIFICATIONS

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Below are the technical specifications for the HONGXING HX-168AH amplifier:

| Feature                          | Specification                |
|----------------------------------|------------------------------|
| Manufacturer                     | HONGXING                     |
| Brand                            | FOCUSMART                    |
| Model Number                     | HX168A5                      |
| Body Material                    | Aluminum Alloy               |
| Rated Voltage                    | DC 12V                       |
| Rated Output (2.1ch)             | 40W + 40W + 50W              |
| Maximum Effective Output (2.1ch) | 300W + 300W + 150W           |
| SNR                              | >80dB                        |
| Frequency Response               | 20-20KHz                     |
| Impedance                        | 4-8Ω                         |
| Distortion Rate                  | 0.4%                         |
| Operating Power                  | DC 12-15V, 2-10A             |
| External Dimensions              | Approx. 16.1 × 13.6 × 4.8 cm |
| Weight                           | Approx. 395g                 |

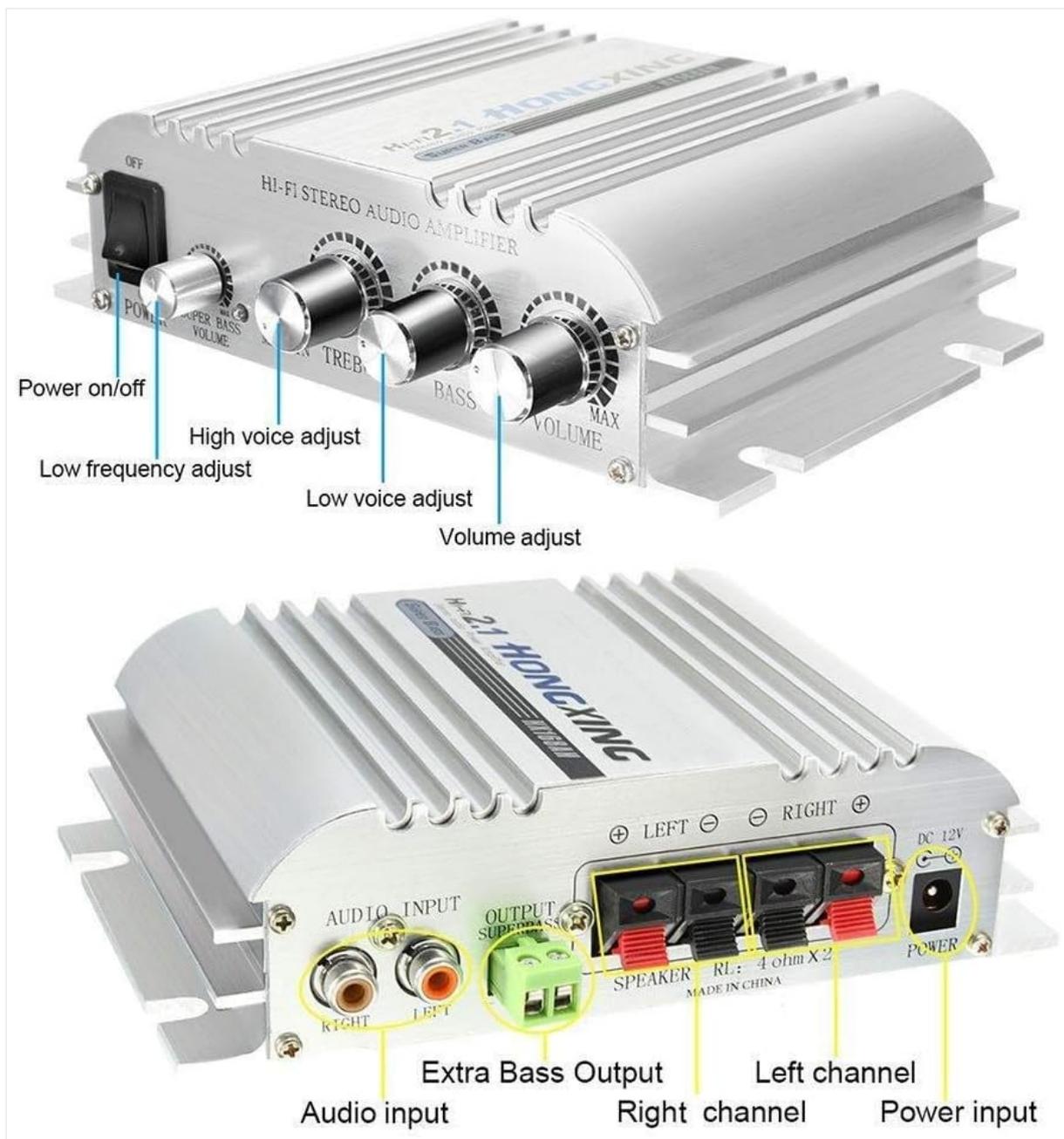


Figure 5: Amplifier dimensions.

## 8. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to both the amplifier and a working power outlet. Check the power switch position.
- **No Sound:** Verify all audio cables are correctly connected. Check the input mode selector. Ensure the volume is turned up on both the amplifier and your audio source. Confirm speakers are properly connected and functional.
- **Low Output Volume/Distortion:** If you experience low volume or distortion, especially at higher levels, and are using the included 5A adapter, consider using a higher output power adapter (DC 12-15V, 2-10A) to provide sufficient power.
- **Bluetooth Connection Issues:** Ensure the amplifier is in 'BT' mode and the antenna is properly attached. Turn off and on Bluetooth on your mobile device and try re-pairing.

## 9. SAFETY INFORMATION

- Do not expose the amplifier to water, moisture, or extreme temperatures.
- Ensure adequate ventilation around the unit to prevent overheating.
- Use only the specified power adapter or a compatible higher-output adapter.

- Do not attempt to open or repair the unit yourself. Refer to qualified personnel for service.
- Keep out of reach of children.

## **10. WARRANTY AND SUPPORT**

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This product is provided with this user manual for guidance. Please note that specific support for connection and handling methods beyond the scope of this manual is not provided by the manufacturer. For any issues not covered in this manual, please contact your retailer.