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› [ASHATA](#) /

› ASHATA MIC-60 48V XLR Balanced Microphone Preamp User Manual

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User Manual

[Contents](#) [Features](#) [Safety](#) [Controls](#) [Setup](#) [Overview](#) [Package](#) [Operation](#) [Specifications](#) [Troubleshooting](#) [Maintenance](#) [Warranty](#)
[& Support](#)

1. PRODUCT OVERVIEW

The ASHATA MIC-60 is a versatile 48V XLR balanced microphone preamp designed to enhance audio quality for recording studios, live streaming, and various audio applications. It provides a clean gain boost for both dynamic and condenser microphones, ensuring high-fidelity sound reproduction with minimal noise and distortion.



Figure 1: ASHATA MIC-60 Balanced Microphone Preamp in use.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- ASHATA MIC-60 Balanced Microphone Preamp x 1
- 6.35mm Sound Cable x 1
- USB Cable x 1



Figure 2: Package contents including the preamp, 6.35mm sound cable, and USB cable.

3. PRODUCT FEATURES

- **Advanced Sound Enhancement:** Provides a clean gain boost from 10dB to 60dB, ensuring clear audio with low distortion and minimal latency for studio-quality recordings.
- **Versatile Compatibility:** Equipped with 48V phantom power and multiple input channels, supporting both condenser and dynamic microphones, including models like SM7B and 55SH.
- **Multi-Channel Connectivity:** Features balanced XLR, 6.35mm, and 3.5mm stereo microphone/line inputs and outputs. Easily connects to sound interfaces, mixers, consoles, and speakers for multi-channel mixing and live streaming applications. Note: 3.5mm and 6.35mm inputs are unbalanced.
- **Original Sound Quality:** Unique full-balanced circuit design delivers ultra-low noise and clean sound without coloring the audio, ideal for home and professional studios, vocal recording, podcasts, and live streaming.
- **Durable Design:** Housed in a robust black aluminum alloy case, ensuring durability and effectively reducing interference for extremely low noise output. Its compact and lightweight design facilitates easy portability and storage.

4. SAFETY INFORMATION

- Do not expose the device to water or excessive moisture.
- Avoid placing the device near heat sources or in direct sunlight.
- Use only the specified power adapter (5V-12V DC) to prevent damage.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the device during operation.
- Keep out of reach of children.

5. CONTROLS AND CONNECTIONS

5.1 Front Panel Controls



Figure 3: Front Panel Controls

- **Bass Knob:** Adjusts the low-frequency response of the audio signal (-15dB to +15dB).
- **Midrange Knob:** Adjusts the mid-frequency response of the audio signal (-15dB to +15dB).
- **Treble Knob:** Adjusts the high-frequency response of the audio signal (-15dB to +15dB).
- **Output Volume Knob:** Controls the overall output level of the preamp.
- **Gain Adjustment Knob:** Adjusts the input gain from 10dB to 60dB.

5.2 Front Panel Inputs and Switches



Power Switch

**XLR combination socket
XLR/6.5mm Dual Purpose**

3.5 mic connector

48V Power Switch

Figure 4: Front Panel Inputs and Switches

- **POWER ON/OFF Button:** Press to turn the unit on or off.
- **XLR Combination Socket (MIC IN):** Accepts both XLR and 6.35mm (1/4 inch) microphone inputs.
- **+48V Power Switch:** Activates 48V phantom power for condenser microphones. Ensure this is OFF when connecting dynamic microphones.
- **3.5mm Mic Connector (MIC IN):** Accepts 3.5mm (1/8 inch) microphone input.

5.3 Rear Panel Outputs and Power



6.5mm 3.5mm XLR

3 output interfaces

Power supply 5V-12V

Interface specification is 5.5x2.1

Can be used with a charging bank, cell phone charger or power adapter power supply

3 interfaces are balanced output, according to the use of equipment to choose which one to use, basically covers the common sound equipment

Figure 5: Rear Panel Outputs and Power Input

- **6.5mm Output (MIC OUT):** 6.35mm (1/4 inch) audio output.
- **3.5mm Output (MIC OUT):** 3.5mm (1/8 inch) audio output.
- **XLR Output (MIC OUT):** Balanced XLR audio output.
- **DC 5V-12V Power Input:** Connect the provided USB cable or a compatible 5V-12V DC power adapter here.

6. SETUP GUIDE

1. **Power Connection:** Connect the provided USB cable to the DC 5V-12V power input on the rear panel of the MIC-60. Connect the other end of the USB cable to a compatible USB power source (e.g., computer USB port, USB wall adapter, power bank).
2. **Microphone Connection:**
 - For **Dynamic Microphones:** Connect your dynamic microphone to the XLR combination socket or the 3.5mm mic connector on the front panel. Ensure the **+48V Power Switch** is in the OFF position.
 - For **Condenser Microphones:** Connect your condenser microphone to the XLR combination socket on the front panel. After connecting, switch the **+48V Power Switch** to the ON position to provide phantom power.
3. **Output Connection:** Connect one of the MIC OUT ports (XLR, 6.35mm, or 3.5mm) on the rear panel to your audio interface, mixer, console, or powered speakers using an appropriate audio cable.
4. **Power On:** Press the **POWER ON/OFF** button on the front panel to turn on the MIC-60. The power indicator light will illuminate.
5. **Initial Settings:** Before speaking into the microphone, set the **Gain Adjustment Knob** and **Output Volume Knob** to their minimum positions to avoid sudden loud sounds.

7. OPERATING INSTRUCTIONS

1. **Adjusting Gain:** Slowly increase the **Gain Adjustment Knob** until you achieve a suitable input level. Monitor your audio interface or mixer for optimal signal strength without clipping.
2. **Adjusting Tone:** Use the **Bass**, **Midrange**, and **Treble** knobs to fine-tune the microphone's tonal characteristics to your preference or the requirements of your recording/performance. Adjust these incrementally.
3. **Adjusting Output Volume:** Once the input gain and tone are set, use the **Output Volume Knob** to control the overall signal level sent to your connected audio device.
4. **Monitoring:** Always monitor your audio through headphones or speakers connected to your audio interface/mixer to ensure the sound quality is as desired.
5. **Phantom Power Usage:** Only activate the **+48V Power Switch** when using condenser microphones that require phantom power. Ensure it is off for dynamic microphones to prevent potential damage.

8. SPECIFICATIONS

Feature	Description
Item Type	Balanced Microphone Preamp
Model	MIC-60 (Product Model Number: ASHATAqbytype90xgt)
Material	Aluminum Alloy
Color	Black
Power Interface	5.5 x 2.1mm (5V-12V DC)
Input Interfaces	XLR (Balanced), 6.35mm (Unbalanced), 3.5mm (Unbalanced)
Output Interfaces	XLR (Balanced), 6.35mm (Balanced), 3.5mm (Balanced)
Circuit Design	Balanced Amplification Circuit
Gain Range	10dB to 60dB
Tone Adjustment Range	±15dB (Bass, Midrange, Treble)
Frequency Response	20Hz - 20kHz
Power Consumption	0.6W
Phantom Power	Built-in 48V
Supported Microphones	5V/48V Condenser Microphones, Dynamic Microphones
Product Weight	350 grams

9. TROUBLESHOOTING

- **No Sound Output:**
 - Ensure the MIC-60 is powered on and the power indicator light is illuminated.
 - Check all cable connections (microphone, output, power) are secure.
 - Verify the microphone is properly connected and functioning.
 - If using a condenser mic, ensure 48V phantom power is enabled.
 - Increase the Gain Adjustment and Output Volume knobs gradually.
 - Check the input/output settings on your connected audio interface or mixer.
- **Distorted Sound:**
 - Reduce the Gain Adjustment knob. The input signal might be too strong.
 - Lower the Output Volume knob.
 - Check for damaged cables.
- **Hum or Noise:**

- Ensure all connections are secure and balanced cables are used where appropriate (especially for XLR).
- Move the unit away from other electronic devices that might cause interference.
- Check the power source for stability.
- If using a dynamic mic, ensure 48V phantom power is OFF.

10. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid bending or twisting cables excessively to prevent internal damage.

11. WARRANTY AND SUPPORT INFORMATION

Specific warranty details and support contact information are not provided in the product description. Please refer to your purchase documentation or contact the retailer/manufacturer directly for warranty claims and technical support.

For general inquiries, you may visit the ASHATA brand store on Amazon: [ASHATA Store](#)