

Behringer MA400

Behringer MicroMON MA400 Monitor Headphone Amplifier

User Manual

1. INTRODUCTION

The Behringer MicroMON MA400 is an ultra-compact monitor headphone amplifier designed for studio and stage applications. It serves as a personal "more me" mixer, allowing users to blend a microphone signal with a monitor signal and listen to the combined audio through headphones.

Key features include:

- **Superior Sound Clarity:** Experience pristine audio with a wide 15Hz-25kHz bandwidth, ensuring accurate reproduction of every nuance for professional monitoring applications.
- **Optimized Impedance Matching:** Drive your headphones effectively with a minimum 30 Ohms output impedance, delivering robust and clear sound even at high volumes, preventing distortion.
- **Versatile Connectivity Options:** Equipped with both 1/4" and 1/8" TRS connectors for headphones, plus XLR and TRS/TS inputs, seamlessly integrating into any audio setup for flexible use.
- **Powerful Headphone Output:** Enjoy a potent +10dBu output level (60mW at 100 Ohms), providing ample volume and headroom for detailed monitoring without compromising audio fidelity.
- **Ultra-Low Distortion:** Benefit from exceptionally clean audio with a THD of just 0.005% (typical at 100 Ohms), ensuring accurate and uncolored sound reproduction for critical listening.



Figure 1: Front view of the Behringer MicroMON MA400, showing controls and headphone outputs.

2. SETUP

The MA400 is designed for straightforward integration into your audio setup. Follow these steps for initial connection:

1. **Power Connection:** Connect the included DC 12V adapter to the power input jack on the unit. Plug the adapter into a suitable power outlet. The "ON" LED indicator will illuminate when powered.
2. **Microphone Input:** Connect your microphone to the **MIC INPUT** XLR jack. If your main mixer provides +48V phantom power, the MA400 will pass it through to your condenser microphone.
3. **Microphone Through:** Connect the **MIC THRU** XLR jack to your main mixer's microphone input. This allows your microphone signal to pass through the MA400 to the main mixer.
4. **Monitor Input:** Connect the monitor signal from your main mixer or sound system to the **MONITOR INPUT** (1/4" TRS/TS jack). This input accepts either stereo or mono signals.
5. **Headphone Connection:** Plug your headphones or in-ear monitors into either the 1/4" or 1/8" **PHONES** jack on the front of the unit.



Figure 2: Rear view of the Behringer MicroMON MA400, highlighting the XLR and monitor input connections.

3. OPERATING THE MA400

Once connected, the MA400 provides intuitive controls for personal monitoring:

- **MIC LEVEL Control:** This knob adjusts the volume of the microphone signal in your headphones. Turn clockwise to increase the microphone level.
- **MON LEVEL Control:** This knob adjusts the volume of the monitor signal (from the MONITOR INPUT) in your headphones. Turn clockwise to increase the monitor level.
- **MONO/STEREO Switch:** Located on the front panel, this switch allows you to select between mono and stereo operation for the monitor input.
 - **MONO:** Combines left and right channels into a single mono signal. Useful for single-channel monitor feeds.
 - **STEREO:** Preserves the stereo separation of the incoming monitor signal.
- **GND LIFT Switch:** Located on the rear panel, this switch helps eliminate hum or buzz caused by ground loops. If you experience unwanted noise, try toggling this switch.



Figure 3: Angled view of the Behringer MicroMON MA400, showing both front controls and rear connections.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Behringer MicroMON MA400, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish.
- **Storage:** When not in use, store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the unit with care. Avoid dropping it or subjecting it to strong impacts, which can damage internal components.
- **Ventilation:** Ensure proper ventilation around the unit to prevent overheating. Do not block any ventilation openings.

5. TROUBLESHOOTING

If you encounter issues with your MA400, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No power / ON LED off	Power adapter not connected or faulty; power outlet not active.	Check power adapter connection. Try a different power outlet. Ensure the adapter is the correct 12V DC type.

Problem	Possible Cause	Solution
No sound in headphones	Headphones not connected properly; volume knobs (MIC/MON LEVEL) turned down; incorrect input connection.	Ensure headphones are fully plugged into the correct jack. Increase MIC LEVEL and MON LEVEL. Verify input cables are connected to MIC INPUT and MONITOR INPUT.
Humming or buzzing noise	Ground loop issue.	Toggle the GND LIFT switch on the rear panel. Ensure all audio cables are properly shielded.
Distorted sound	Input signal too high; volume knobs set too high.	Reduce the input level from your source (e.g., mixer output). Lower the MIC LEVEL or MON LEVEL knobs on the MA400.

6. SPECIFICATIONS

Detailed technical specifications for the Behringer MicroMON MA400:

- **Item Weight:** 8 ounces (0.5 Pounds)
- **Product Dimensions:** 4.06 x 2.52 x 1.85 inches
- **Item Model Number:** MA400
- **Brand:** Behringer
- **Color Name:** Silver
- **Material Type:** Silver
- **Output Wattage:** 40 Watts
- **Power Source:** Corded Electric
- **Number of Channels:** 4
- **Compatible Devices:** Professional audio equipment
- **Date First Available:** June 14, 2007

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Behringer website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

The "Directions" section from the product information states: "The Micromon MA400 is a personal monitor mixer for performers. It features flexible Mic In and Mic Through XLR connectors with a Ground Lift switch. It also has a stereo Monitor input with a dedicated Monitor Level control and Mono/Stereo switch. The high-power headphones output is available on 1/4 in. and 1/8 in. jack connectors. The product is small enough to fit in your pocket, making it ideal for performers who need a personal monitor mixer. It includes a DC 12-Volt adapter and is made of high-quality components for long life."

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