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Mackie HM800

Mackie HM-800 8-Channel Headphone Amplifier User Manual

Model: HM800

1. Introduction

The Mackie HM-800 is a professional 8-channel headphone amplifier designed for studio, live, and practice applications. It features two discrete main stereo inputs with individual level control, plus stereo outputs, and eight independent auxiliary inputs for creating up to eight individual stereo mixes. With a total of 16 headphone outputs, the HM-800 provides robust monitoring solutions for multiple users.

2. Setup

2.1 Unpacking and Inspection

Carefully remove the HM-800 from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the packaging for future transport or storage. Ensure all included accessories, such as the power cord and quick start guide, are present.



Image 1: Included accessories: The HM Series Quick Start Guide and a detachable IEC power cord.

2.2 Rack Mounting

The HM-800 is designed for standard 19-inch rack mounting. Secure the unit using appropriate rack screws. When mounting above other equipment, ensure sufficient clearance for any protruding screws on the bottom of the HM-800 to prevent damage or instability.

2.3 Power Connection

Connect the provided IEC power cord to the HM-800's AC inlet on the rear panel and then to a suitable AC power outlet. Ensure the voltage selector switch (if present) is set correctly for your region before powering on.

2.4 Audio Connections

The HM-800 offers flexible input and output options:

- **Main Inputs:** Connect your primary audio sources to the two discrete Main Inputs (1 and 2) on the rear panel using balanced XLR or 1/4" TRS cables, or unbalanced 1/4" TS cables.
- **Auxiliary Inputs:** For individual stereo mixes, connect up to eight auxiliary sources to the Aux Inputs (1-8) on the rear panel using unbalanced 1/4" TS cables. Each Aux Input corresponds to a specific headphone channel.
- **Main Outputs:** The Main Outputs mirror the Main Inputs, allowing you to pass the main signal through to other equipment. Use balanced XLR or 1/4" TRS cables, or unbalanced 1/4" TS cables.
- **Headphone Outputs:** Connect headphones to any of the 16 1/4" headphone outputs on the front panel. Each of the eight channels provides two headphone outputs.



Image 2: Front view of the Mackie HM-800 8-Channel Headphone Amplifier, showcasing the main input controls, eight individual channel strips with input select, stereo/mono switches, output level controls, and headphone jacks, along with LED metering and power switch.



Image 3: Rear view of the Mackie HM-800 8-Channel Headphone Amplifier, displaying the power input, eight auxiliary inputs, eight phone outputs, and two main input/output sections.

3. Operating Instructions

3.1 Powering On/Off

Press the **POWER** switch located on the front panel to turn the unit on or off. The power LED will illuminate when the unit is on.

3.2 Main Input Level Control

Adjust the overall input level for Main Input 1 and Main Input 2 using their respective**MAIN IN 1** and **MAIN IN 2** level controls on the front panel. Monitor the 7-segment LED meters to ensure optimal signal levels without clipping.

3.3 Channel Controls (1-8)

Each of the eight headphone channels features the following controls:

- **Input Select Switch (IN 1 / IN 2):** This switch determines which main input (Main In 1 or Main In 2) feeds the channel.
- **Stereo/Mono Switch:** Toggles the channel output between stereo and mono. In mono mode, the left and right signals are summed.
- **Aux Input (per channel):** When an auxiliary input is connected to a specific channel on the rear panel, this input can be mixed with the selected main input. The level of the auxiliary input is controlled by the source device.

- **Output Level Control (PHONES):** Adjusts the headphone output level for that specific channel.
- **7-Segment LED Metering:** Provides visual feedback on the output level for each channel.

3.4 Creating Individual Mixes

To create a unique stereo mix for a specific headphone channel, connect an audio source (e.g., a mixer's auxiliary send) to the corresponding Aux Input on the rear panel. The HM-800 allows you to blend this auxiliary signal with the selected Main Input (1 or 2) for that channel, providing a customized monitoring experience.

4. Maintenance

The Mackie HM-800 is designed for robust performance with minimal maintenance. To ensure longevity and optimal operation:

- Keep the unit clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure proper ventilation around the unit, especially if rack-mounted, to prevent overheating.
- Avoid exposing the unit to excessive moisture, dust, or extreme temperatures.
- Regularly check all cable connections for secure fit.

5. Troubleshooting

If you encounter issues with your HM-800, refer to the following common troubleshooting steps:

- **No Power:**
  - Ensure the power cord is securely connected to both the HM-800 and a working AC outlet.
  - Verify the power switch is in the 'ON' position.
  - Check the fuse on the rear panel. Replace if necessary with the correct type and rating (T0.5AL 250V for 100-120V, T0.2AL 250V for 220-240V).
- **No Sound from Headphones:**
  - Confirm that the HM-800 is powered on.
  - Check that the main audio source is sending a signal to the HM-800's Main Inputs.
  - Ensure the **MAIN IN** level controls are turned up.
  - For the specific channel, verify the**Input Select** switch is set to the correct main input (IN 1 or IN 2).
  - Turn up the **PHONES** output level control for the affected channel.
  - Test with different headphones to rule out faulty headphones.
  - Check all audio cables for proper connection and integrity.
- **Distorted Sound:**
  - Reduce the input level from your audio source.
  - Lower the **MAIN IN** level controls on the HM-800.
  - Observe the 7-segment LED meters; if they are consistently peaking into the red, reduce levels until they remain in the green/yellow range.
  - Ensure the **Stereo/Mono** switch is set appropriately for your source material.

6. Specifications

The following specifications are for the Mackie HM-800 8-Channel Headphone Amplifier:

Category	Specification
Audio Performance	
Frequency Response	20 Hz – 20 kHz, ± 1 dB
Noise	–70 dB
Distortion (THD)	+4 dBu, 1 kHz, unity gain; <0.005%
Maximum Main Input Level	+19 dBu balanced/unbalanced
Maximum Aux Input Level	+20 dBu unbalanced
Headphone Output	550 mW/channel @ 47Ω (+21 dBu)
CMRR (Main Input)	> 52 dB @ 1 kHz
Gain Range (Main Input)	–67 to 19 dBu
Input/Output	
Main Input Type	Female XLR balanced; Female 1/4" Balanced – unbalanced
Main Input Impedance	40 kΩ balanced, 20 kΩ unbalanced
Aux Input Impedance	13 kΩ unbalanced
Output Type	Male XLR balanced; Female 1/4” balanced – unbalanced
Headphone Output Impedance	3Ω unbalanced
Power Requirements	
Detachable Line Cord	100 – 120V, 50/60 Hz, 24 W; 220 – 240V, 50/60 Hz, 24 W
AC Connector	3-pin IEC 250 VAC, 10 A male
Display LEDs	
Front Panel Indicators	Power On/Off, Input Level Meter, Output Level Meters, Stereo/Mono Switches, In 1/2 Switches
Physical Properties	
Height	1.8 in / 46 mm
Width	19.0 in / 483 mm
Depth	8.8 in / 224 mm
Weight	8.0 lb / 3.6 kg
General	
Item Model Number	HM800

Category	Specification
ASIN	B079C8XNLK
Date First Available	January 27, 2018

7. Warranty Information

For detailed warranty information regarding your Mackie HM-800, please refer to the warranty card included with your product or visit the official Mackie website. Warranty terms and conditions may vary by region and product.

8. Support

If you require further assistance or have questions not covered in this manual, please visit the official Mackie support website or contact Mackie customer service. Contact information and additional resources can typically be found on the manufacturer's website.

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