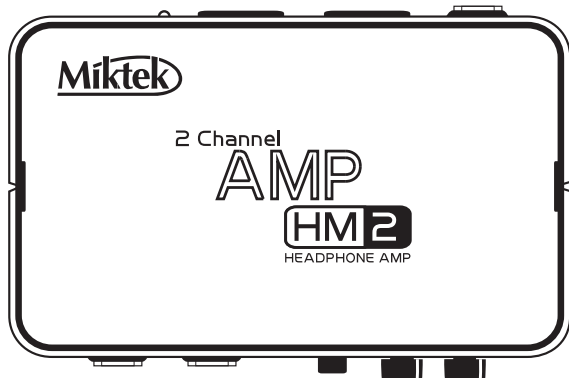




## HM2 Dual Channel Personal Monitor Headphone Amp Owner's Manual



Congratulations on your purchase of the Miktek Audio Tool Box Series signal processor! The audio industry is filled with a lot of 'good' audio gear. At Miktek we believe 'good' is not good enough! We manufacture our products to go beyond average quality and performance. Thank you for trusting our vision and choosing Miktek for your important audio application.

In this manual you will find descriptions of the HM-2, the two-channel headphone amp's features, step-by-step set-up, and operating instructions along with detailed specifications. In addition, we've also included some simple application examples to explain the features and functions of the HM-2. For the experienced audio engineer these applications may seem basic, however at Miktek, we are committed to supporting and encouraging new engineers who use our products and help them appreciate outstanding audio quality! So, no explanation is too basic! We know you are serious about your audio equipment, and at Miktek, we are serious about providing superior products and service to our customers. We appreciate your patronage and hope you enjoy using your Audio Tool Box processors as much as we enjoy making them for you.

Sincerely,  
Michael Ketchell  
Managing Director

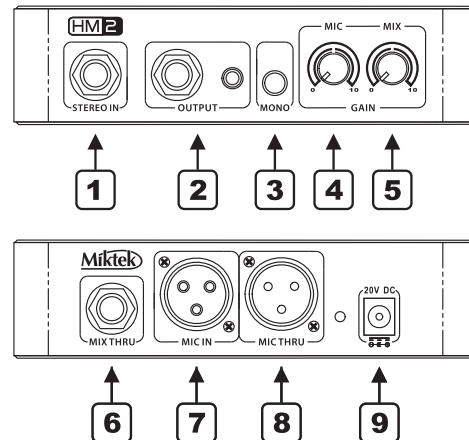
### INTRODUCTION

The HM-2 is more than a simple dual channel headphone amplifier. It allows you to independently mix the level of your microphone with a stereo source making it an ideal unit for personal monitoring, either on stage or in the studio.

### FEATURES

- Balanced XLR microphone INPUT
- Balanced XLR microphone THRU to link signal to the main mixer
- 1/4" stereo INPUT for feeding a stereo monitor signal from the main mixer
- 1/4" stereo MIX THRU for sending the same stereo signal to multiple units
- MONO switch for summing line level input
- MIC GAIN to set the microphone at a desired level
- MIX GAIN to control the level of stereo input signal
- Headphone outputs on 1/4" & 3.5mm jack connectors
- 20V AC adapter included

### FRONT AND REAR PANEL LAYOUT



1. STEREO IN: 1/4" TRS connector to input main stereo signal (Tip=Left; Ring=Right; Sleeve=Ground)
2. OUTPUT: 1/4" TRS and 3.5mm connector for headphones
3. MONO: switch for summing line level input
4. GAIN – MIC: Control knob used to adjust level of MIC input signal
5. GAIN – MIX: Control knob used to adjust level of stereo input signal
6. MIX THRU: 1/4" TRS connector to output main stereo signal
7. MIC IN: Connect any dynamic or battery/phantom powered condenser microphone here
8. MIC THRU: Parallel output for passing microphone signal to main mixer
9. DC POWER INPUT: Connect the supplied power adapter here

### SETTING UP YOUR HM2

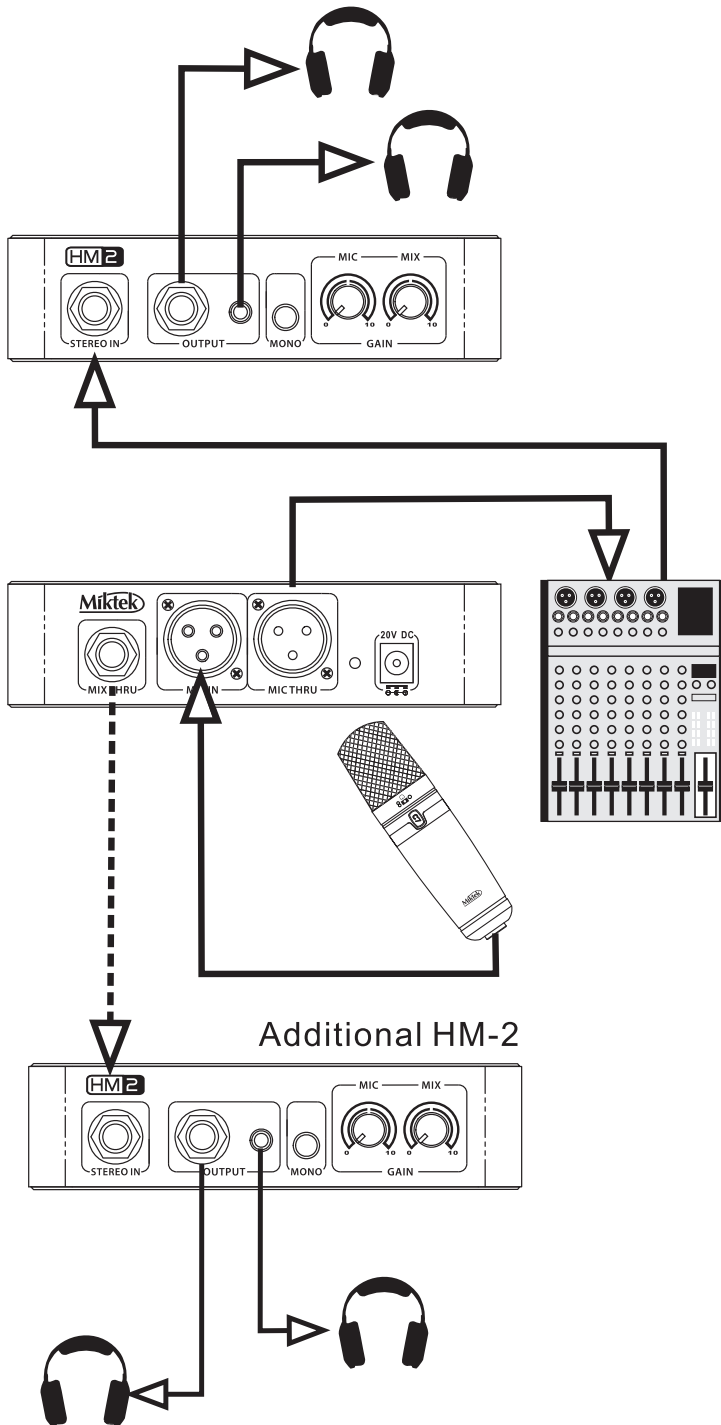
To set up your HM2, make sure all the knobs are turned all the way down. Connect the supplied DC adapter to the 20V DC POWER INPUT on the rear panel and then plug the adapter into any standard AC outlet.

Connect your microphone to the HM2 MIC INPUT using a standard balanced XLR microphone cable. Then use a second standard microphone cable to connect the MIC THRU output to the input on your main mixer.

### TYPICAL SET-UP WITH HM2

1. Connect the headphone output from your main mixer, or any stereo line level source to STEREO IN by a standard 1/4" TRS connector
2. Connect your headphones to OUTPUT
3. Speak into your microphone and then raise the MIC GAIN level slowly until you reach an ideal level
4. Raise your MIX GAIN level while speaking or singing into your microphone until you find an appropriate balance between the two
5. If more outputs are needed, connect MIX THRU to additional HM2 by a standard 1/4" TRS connector.

**TYPICAL SET-UP WITH HM2 - Continued**



**SPECIFICATIONS**

- Frequency Response . . . . . 10Hz to 93kHz
- Noise Level . . . . . -100 dBu
- THD+N . . . . . <0.04%
- Input Impedance. . . . . >10k Ohm
- Output Impedance . . . . . 100 Ohm
- Stereo Input. . . . . 1/4" Phone Jack, Unbalanced
- Mix Thru . . . . . 1/4" Phone Jack, Unbalanced
- Mic In . . . . . XLR Connector, Balanced
- Mic Thru . . . . . XLR Connector, Balanced
- Max Input Level . . . . . +20dBu
- Power Supply . . . . . 18V DC
- Dimensions . . . . . 144 W x 102 D x 28 H mm
- Weight . . . . . x KG

**Note:** Make sure the GAIN knob is turned all the way down before connecting headphones. Use caution and care for your ears by always starting with low headphone levels and then slowly raise the signal to a comfortable listening volume.



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