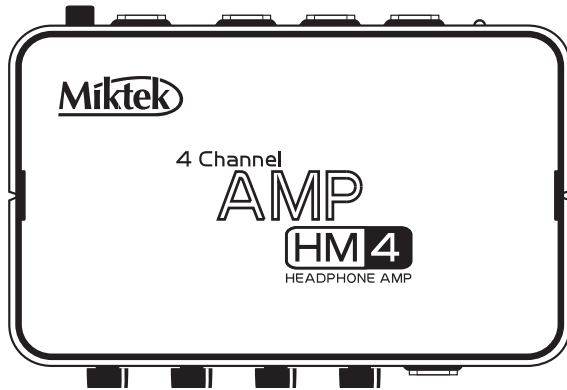




HM4 Dual Channel Personal Monitor Headphone Amp

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 HM4, the four-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 HM4. 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

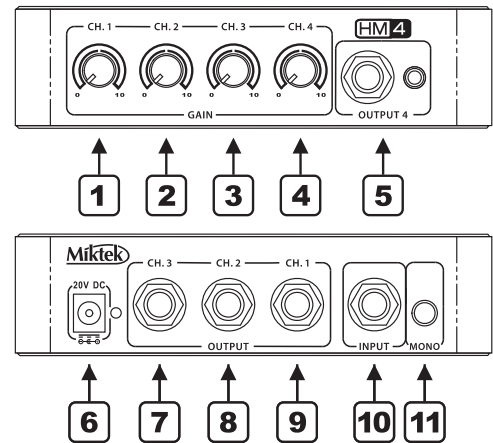
INTRODUCTION

The HM4 is a 4-channel headphone amplifier that allows you to independently control the level between four sets of headphones. It is an ideal unit for personal monitoring, either on stage or in the studio.

FEATURES

- Four channel stereo headphone amplifier
- Four 1/4" stereo headphone outputs plus one 3.5mm jack in parallel for OUTPUT 4
- Four individual volume controls for each headphone output
- 1/4" stereo INPUT jack
- MONO switch for summing line level input
- 20V AC adapter included

FRONT AND REAR PANEL LAYOUT



1. CH1 – GAIN: Control knob used to adjust the output level of Channel 1
2. CH2 – GAIN: Control knob used to adjust the output level of Channel 2
3. CH3 – GAIN: Control knob used to adjust the output level of Channel 3
4. CH4 – GAIN: Control knob used to adjust the output level of Channel 4
5. CH4 – OUTPUT: 1/4" & 3.5mm output for connecting Channel 4
6. DC POWER INPUT: Connect the supplied power adapter here
7. CH3 – OUTPUT: 1/4" output for connecting Channel 3
8. CH2 – OUTPUT: 1/4" output for connecting Channel 2
9. CH1 – OUTPUT: 1/4" output for connecting Channel 1
10. INPUT: 1/4" TRS connector to input main stereo signal
11. MONO: Push switch for summing line level input

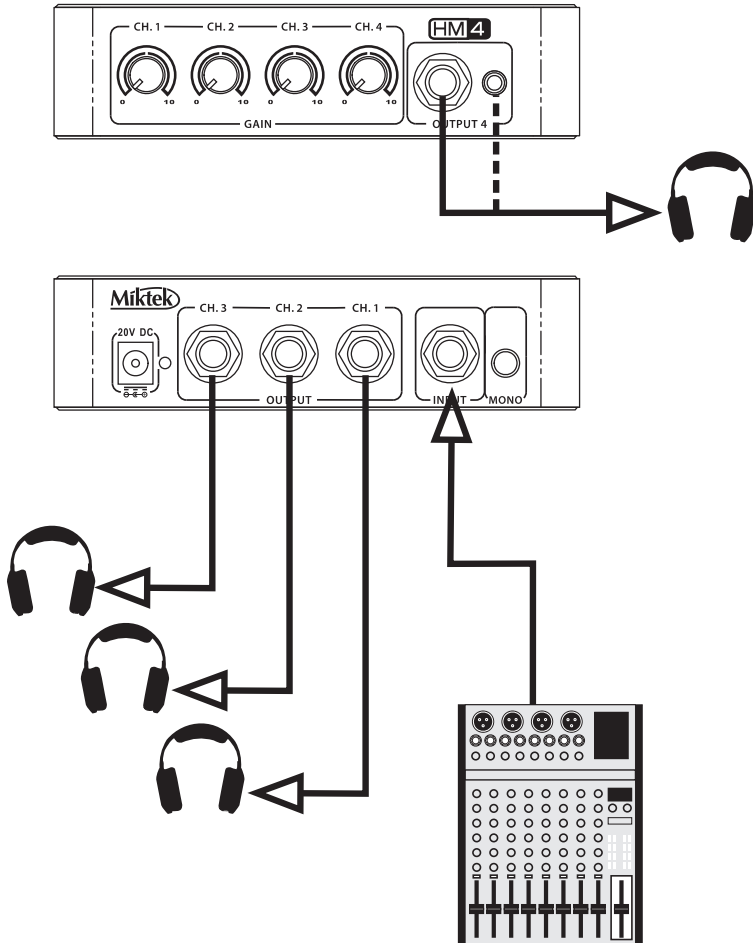
SETTING UP YOUR HM4

To set up your HM4, make sure all the control knobs have been turned down to off. Connect the supplied AC adapter to the 20V DC POWER INPUT on the rear panel and then plug the adapter into any standard AC outlet.

TYPICAL SET-UP WITH HM4

1. Connect the output for the device you want monitored to the INPUT jack on the HM4 rear panel
2. Apply a signal to the HM4 INPUT jack
3. Connect a headphone to Channel 1 OUTPUT jack and raise the channel's GAIN knob slowly to your desired level
4. Repeat the steps if additional headphones are connected

TYPICAL SET-UP WITH HM4 - Continued



SPECIFICATIONS

| | |
|----------------------------|---|
| Input Impedance | 100k-Ohm Unbalanced |
| Max Input Level | +19dBV |
| Input Connectors | Stereo ¼"TRS Phone Jack |
| Outputs | Four Stereo ¼"TRS Phone Jacks One 3.5mm Jack |
| Output Impedance | 100 Ohm each output |
| Max Gain | 20dB/Channel |
| S/N Ratio | >90dB |
| THD | <0.005% |
| IMD (SMPTE) | <0.005% |
| Power Supply | 18V DC |
| Dimensions | 144 W x 102 D x 38 H mm |
| Weight | 0.297 KG |

NOTE 1: 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.

NOTE 2: If monitoring a mono input, engage the mono switch to ensure the headphones will receive signal on both left and right channels.



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