

**Kramer Electronics, Ltd.**



# **USER MANUAL**

**Model:**

**VM-80H**

*1:8 Stereo Headphone Distributor*

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## 1 Introduction

Welcome to Kramer Electronics (since 1981): a world of unique, creative and affordable solutions to the infinite range of problems that confront the video, audio and presentation professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better! Our 500-plus different models now appear in 8 Groups<sup>1</sup>, which are clearly defined by function.

Congratulations on purchasing your Kramer **VM-80H 1:8 Stereo Headphone Distributor**, which is ideal for:

- Recording and project studios
- Audio monitoring in distribution or duplication systems
- Retail stores and other point-of-sale systems

The package includes the following items:

- **VM-80H 1:8 Stereo Headphone Distributor**
- Power adapter (12V DC Input)
- This user manual<sup>2</sup>

## 2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual
- Use Kramer high performance high resolution cables<sup>3</sup>

## 3 Overview

The Kramer **VM-80H** is a high performance distribution amplifier for headphone signals. It takes one stereo headphone input and distributes the signal to eight identical stereo headphone outputs. The **VM-80H** features a mono/stereo selection button, letting you connect up to 16 mono outputs, and Level (Gain) Controls for each output.

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1 GROUP 1: Distribution Amplifiers; GROUP 2: Video and Audio Switchers, Matrix Switchers and Controllers; GROUP 3: Video, Audio, VGA/XGA Processors; GROUP 4: Interfaces and Sync Processors; GROUP 5: Twisted Pair Interfaces; GROUP 6: Accessories and Rack Adapters; GROUP 7: Scan Converters and Scalers; and GROUP 8: Cables and Connectors

2 Download up-to-date Kramer user manuals from our Web site: <http://www.kramerelectronics.com>

3 The complete list of Kramer cables is on our Web site at <http://www.kramerelectronics.com>

To achieve the best performance:

- Connect only good quality connection cables, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality and position your Kramer **VM-80H** away from moisture, excessive sunlight and dust

#### 4 Your VM-80H 1:8 Stereo Headphone Distributor

Figure 1 and Table 1 define the **VM-80H**:

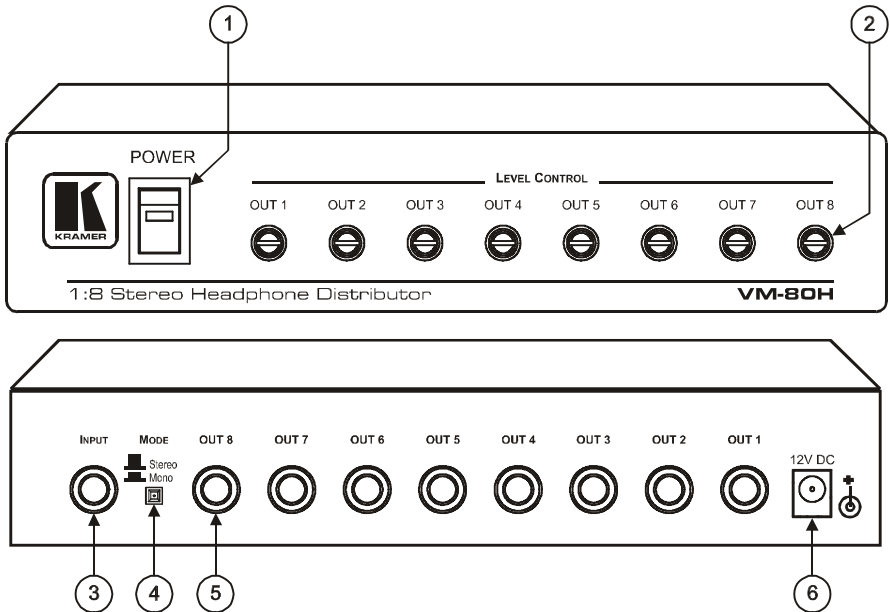


Figure 1: VM-80H 1:8 Stereo Headphone Distributor

Table 1: Features and Functions of the VM-80H 1:8 Stereo Headphone Distributor

#	Feature	Function
1	POWER Switch	Illuminated switch for turning the unit ON or OFF
2	LEVEL CONTROL Potentiometers	Control audio output levels (from 1 to 8)
3	INPUT 6.5mm stereo phone socket	Connect to audio source
4	MODE Stereo/Mono Push Button	Press to set audio acceptors to mono Release to set audio acceptors to stereo
5	OUT 6.5mm stereo phone sockets	Connect to audio acceptors (from 1 to 8)
6	12V DC	+12V DC connector for powering the unit

## 5 Connecting Your VM-80H 1:8 Stereo Headphone Distributor

To connect the **VM-80H**, as illustrated in the example in Figure 2, do the following:

1. Connect an audio source (for example, a stereo audio source) to the INPUT 6.5mm phone socket connector.
2. Connect the OUT 6.5mm phone sockets to up to 8 acceptors, as follows<sup>1</sup>:
  - Connect the OUT 1 connector to an audio acceptor (for example, headphones)
  - Connect the OUT 8 connector to an audio acceptor (for example, speakers)
3. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity (not shown in Figure 2).

Set the LEVEL CONTROL potentiometers for each output as required.

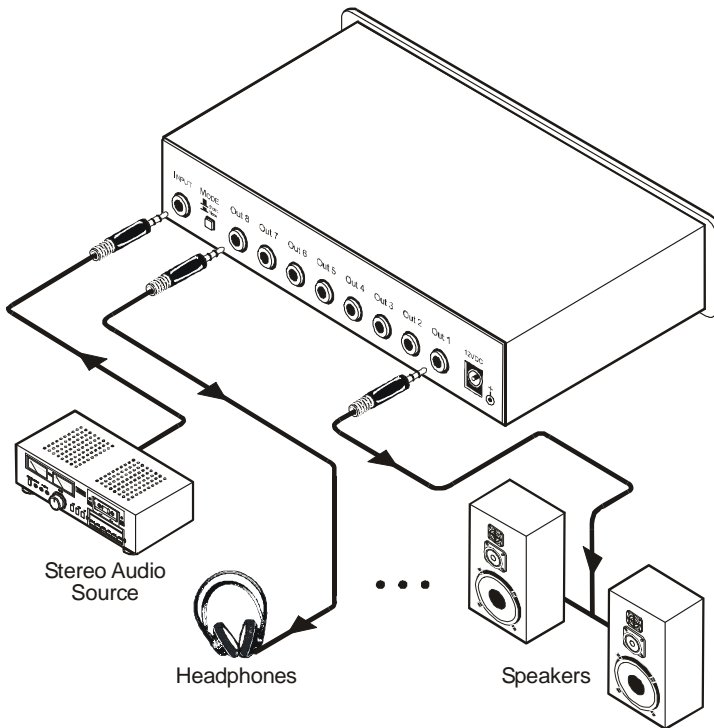


Figure 2: Connecting the VM-80H

<sup>1</sup> You do not have to connect all the outputs

## 6 Technical Specifications

Table 2 includes the technical specifications:

*Table 2: Technical Specifications<sup>1</sup> of the VM-80H 1:8 Stereo Headphone Distributor*

INPUT:	<b>Stereo Mode:</b> 1 audio stereo unbalanced, 1Vpp/10kΩ on 6.5mm stereo phone socket <b>Mono Mode:</b> 1 audio mono unbalanced, 1Vpp/10kΩ on 6.5mm stereo phone socket
OUTPUTS:	<b>Stereo Mode:</b> 8 audio stereo unbalanced, 500mW/8Ω on 6.5mm stereo phone sockets <b>Mono Mode:</b> 16 audio mono unbalanced, 500mW/8Ω on 6.5mm stereo phone socket
MAX. OUTPUT LEVEL:	7.2Vpp, 8Ω
BANDWIDTH (-3dB):	>100kHz
S/N RATIO:	78.8dB
CONTROLS:	Level control: -44dB to +17dB
COUPLING:	AC
AUDIO THD + NOISE:	0.023%
AUDIO 2nd HARMONIC:	0.003%
POWER SOURCE:	12VDC, 1.9A DC
DIMENSIONS:	21.46cm x 16.25cm x 4.04cm (8.45" x 6.39" x 1.59"), W, D, H
WEIGHT:	1.3 kg. (2.9 lbs.) approx.
ACCESSORIES:	Power supply, mounting bracket

<sup>1</sup> Specifications are subject to change without notice

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## LIMITED WARRANTY

Kramer Electronics (hereafter *Kramer*) warrants this product free from defects in material and workmanship under the following terms.

### HOW LONG IS THE WARRANTY

Labor and parts are warranted for seven years from the date of the first customer purchase.

### WHO IS PROTECTED?

Only the first purchase customer may enforce this warranty.

### WHAT IS COVERED AND WHAT IS NOT COVERED

Except as below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed by Kramer, or which is not purchased from an authorized Kramer dealer. If you are uncertain as to whether a dealer is authorized, please contact Kramer at one of the agents listed in the web site [www.kramerelectronics.com](http://www.kramerelectronics.com).
2. Any product, on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
  - i) Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature
  - ii) Product modification, or failure to follow instructions supplied with the product
  - iii) Repair or attempted repair by anyone not authorized by Kramer
  - iv) Any shipment of the product (claims must be presented to the carrier)
  - v) Removal or installation of the product
  - vi) Any other cause, which does not relate to a product defect
  - vii) Cartons, equipment enclosures, cables or accessories used in conjunction with the product

### WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. We will not pay for the following:

1. Removal or installations charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls or programming. These costs are the responsibility of the Kramer dealer from whom the product was purchased.
3. Shipping charges.

### HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on your product, you must take or ship it prepaid to any authorized Kramer service center.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage, and should be included in any shipment of the product. Please also include in any mailing a contact name, company, address, and a description of the problem(s).
3. For the name of the nearest Kramer authorized service center, consult your authorized dealer.

### LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

### EXCLUSION OF DAMAGES

The liability of Kramer for any effective products is limited to the repair or replacement of the product at our option. Kramer shall not be liable for:

1. Damage to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or
2. Any other damages, whether incidental, consequential or otherwise. Some countries may not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from place to place.

**NOTE:** All products returned to Kramer for service must have prior approval. This may be obtained from your dealer.

This equipment has been tested to determine compliance with the requirements of:

- EN-50081: "Electromagnetic compatibility (EMC);  
generic emission standard.  
Part 1: Residential, commercial and light industry"
- EN-50082: "Electromagnetic compatibility (EMC) generic immunity standard.  
Part 1: Residential, commercial and light industry environment".
- CFR-47:  
FCC Rules and Regulations:  
Part 15: "Radio frequency devices  
Subpart B – Unintentional radiators"

### CAUTION!

- ☒ Servicing the machines can only be done by an authorized Kramer technician. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void user authority to operate the equipment.
- ☒ Use the supplied DC power supply to feed power to the machine.
- ☒ Please use recommended interconnection cables to connect the machine to other components.





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**For the latest information on our products and a list of Kramer distributors, visit our Web site: [www.kramerelectronics.com](http://www.kramerelectronics.com), where updates to this user manual may be found. We welcome your questions, comments and feedback.**



**Caution**

**Safety Warning:**

Disconnect the unit from the power supply before opening/servicing.



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Web site: [www.kramerelectronics.com](http://www.kramerelectronics.com)

E-mail: [info@kramerel.com](mailto:info@kramerel.com)

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