

### KRAMER ELECTRONICS LTD.

# USER MANUAL

### MODELS:

WAV-5

WAV-5C

WAV-3

WAV-1H

WAV-1R

**WAV-1RP** 

Wall Plate Series

P/N: 2900-300124 Rev 1

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# 1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront the video, audio, presentation, and broadcasting professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

Our 1,000-plus different models now appear in 11 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters and GROUP 11: Sierra Products.

Congratulations on purchasing your Kramer Wall Plate / Wall Plate Insert (each supplied with the required screws), which is ideal for these applications:

- Board rooms, conference rooms and training rooms
- Presentation systems
- Long distance signal distribution and home theater systems

# 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



Go to <a href="http://www.kramerelectronics.com">http://www.kramerelectronics.com</a> to check for up-to-date user manuals, application programs, and to check if firmware upgrades are available (where appropriate).

# 2.1 Achieving the Best Performance

To achieve the best performance:

- Use only good quality connection cables to avoid 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
- Position your Kramer Wall Insert away from moisture, excessive sunlight and dust

# 3 Overview

This user manual describes the following wall plate inserts:

- WAV-5 and WAV-5C (see <u>Section 3.1</u>)
- WAV-3, WA-1H, WAV-1R, and WAV-1RP (see <u>Section 3.2</u>)

### 3.1 WAV-5 and WAV-5C Wall Plate Inserts

The **WAV-5** (see <u>Section 3.1.1</u>) and **WAV-5C** (see <u>Section 3.1.2</u>), are available in three versions: one for Belgium and Germany, one for England and Europe (except Belgium and Germany), and one for the United States.

#### 3.1.1 WAV-5

The **WAV-5** is a 1 gang wall plate insert (see <u>Figure 1</u>) with pass through connectors for:

- Computer graphics video on a 15-pin HD connector and unbalanced stereo audio on a 3.5mm jack connector flush against the front panel, and a short flexible 12cm (4.7") cable with a 3.5 mini jack connector at the rear
- Video (composite or SDI) on a yellow RCA connector and unbalanced stereo audio on RCA connectors (white for L and red for R)

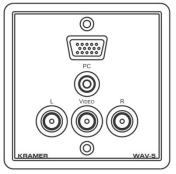
#### 3.1.2 WAV-5C

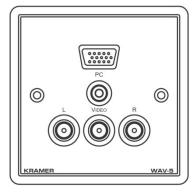
The **WAV-5C** is a 1 gang wall plate insert (see <u>Figure 2</u>) with pass through connectors and 5 cables with BNC connectors (colored red (R), green (G), blue (B), black (Vertical sync) and yellow (Horizontal sync)) on the rear included for:

- Computer graphics video on a 15-pin HD connector and unbalanced stereo audio on a 3.5mm jack connector flush against the front panel, and a short flexible 12cm (4.7") cable with a 3.5 mini jack connector at the rear
- Video (composite or SDI) on a yellow RCA connector and unbalanced stereo audio on RCA connectors (white for L and red for R)



# Destination: Belgium and Germany Destination: England and Europe





**Destination: United States** 

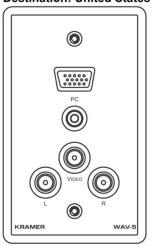
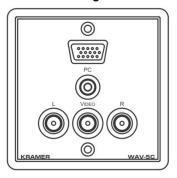


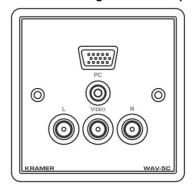
Figure 1: WAV-5



# Destination: Belgium and Germany Des



# **Destination: England and Europe**



## **Destination: United States**

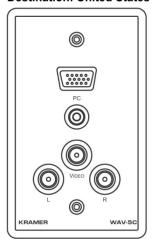


Figure 2: WAV-5C

# 3.2 WAV-3, WA-1H, WAV-1R, WAV-1RP Wall Plate Inserts

This section describes the following wall plate inserts:

- WAV-3 (see Section 3.2.1)
- WA-1H (see <u>Section 3.2.2</u>)
- WAV-1R (see Section 3.2.3)
- WAV-1RP (see Section 3.2.4)

### 3.2.1 WAV-3

The **WAV-3** is a dual-insert wall plate insert (see <u>Figure 3</u>) with pass through connectors for video (composite or SDI) on a yellow RCA connector and unbalanced stereo audio on RCA connectors (white for L and red for R):



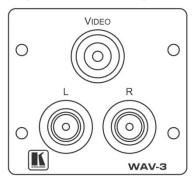


Figure 3: WAV-3

#### 3.2.2 WA-1H

The **WA-1H** is a single-insert wall plate insert (see <u>Figure 4</u>) for unbalanced stereo audio on a 3.5mm mini jack connector with a terminal block connector on the rear (see <u>Figure 5</u>)





Figure 4: WA-1H (Front)

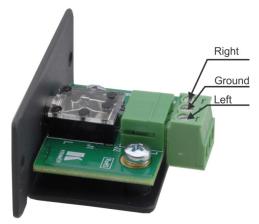


Figure 5: WA-1H (Rear)

### 3.2.3 WAV-1R

The **WAV-1R** is a single insert wall plate insert (see <u>Figure 6</u>) for video (composite or SDI) on a yellow RCA connector and unbalanced stereo audio on a 3.5mm mini jack connector, with a terminal block connector on the rear (see <u>Figure 7</u> and <u>Figure 8</u>):





Figure 6: WAV-1R (Front)

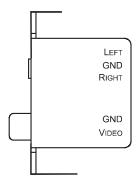


Figure 7: WAV-1R (Side)

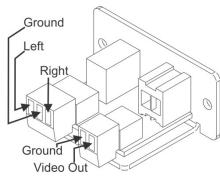


Figure 8: WAV-1R (Rear)

### 3.2.4 WAV-1RP

The **WAV-1RP** is a wall plate insert with pass through connectors for video (composite or SDI) on a yellow RCA connector and unbalanced stereo audio on a 3.5mm mini plug connector (see <u>Figure 9</u>).





Figure 9: WAV-1RP

#### LIMITED WARRANTY

We warrant 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 us 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
- 2. Any product, on which the serial number has been defaced, modified or removed, or on which the WARRANTY VOID IF TAMPERED sticker has been torn, reattached, removed or otherwise interfered with.
- 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.
- 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.
- Shipping charges.

#### HOW YOU CAN GET WARRANTY SERVICE

- 1. To obtain service on you product, you must take or ship it prepaid to any authorized Kramer service center.
- 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.

\* FCC and CE approved using STP cable (for twisted pair products)

**Wall Plate Series** 



For the latest information on our products and a list of Kramer distributors, visit our Web site where updates to this user manual may be found.

### We welcome your questions, comments, and feedback.

Web site: www.kramerelectronics.com

E-mail: info@kramerel.com







### SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing