Kramer Electronics, Ltd.



USER MANUAL

Model:

6808HDxl

HD/SD-SDI AES De-Embedder

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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.

Thank you for purchasing your Kramer **6808HDxl** *HD/SD-SDI AES De-Embedder*, which is ideal for broadcast and production studios, as well as digital / analog AV authoring.

The package includes the following items:

- **6808HDxl** HD/SD-SDI AES De-Embedder
- Power adapter (5V DC input)
- This user manual²

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 cables³

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



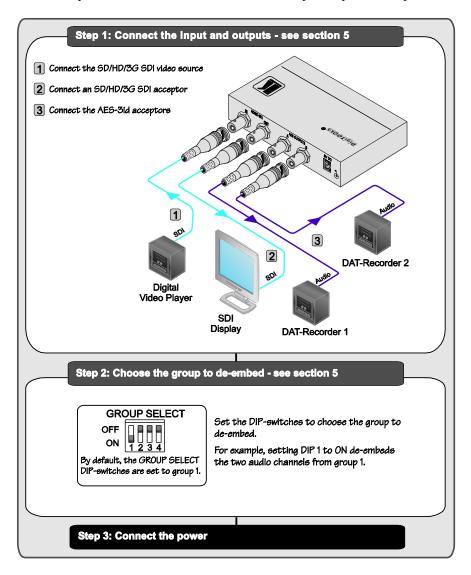
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¹ GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters; GROUP 11: Sierra Products

² Download up-to-date Kramer user manuals from the Internet at this URL: http://www.kramerelectronics.com

2.1 Quick Start

This quick start chart summarizes the basic setup and operation steps.



3 Overview

The Kramer **6808HDxl** *HD/SD-SDI AES De-Embedder* is a broadcast quality audio de-embedder for serial digital video.

The **6808HDxl** features:

- A maximum data rate of 3Gpbs
- 1 SDI input and 1 SDI output on BNC connectors
- AES-3id outputs on BNC connectors
- Group select DIP-switches to choose the group to de-embed
- Kramer reKlockingTM & Equalization Technology that rebuilds the digital signal to travel longer distances
- Status indicators: SD/HD lock and power LEDs
- 5V DC power

To achieve the best performance:

- Use only good quality connection cables¹ 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 and position your Kramer
 6808HDxl away from moisture, excessive sunlight and dust



Caution – No operator-serviceable parts inside unit.

Warning – Use only the Kramer Electronics input power wall adapter that is provided with this unit².

Warning – Disconnect power and unplug unit from wall before installing or removing device or servicing unit.

² For example, part number 2535-052002



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¹ Available from Kramer Electronics on our Web site at http://www.kramerelectronics.com

4 Your 6808HDxl HD/SD-SDI AES De-Embedder

Figure 1 and Table 1 define the 6808HDxl HD/SD-SDI AES De-Embedder:

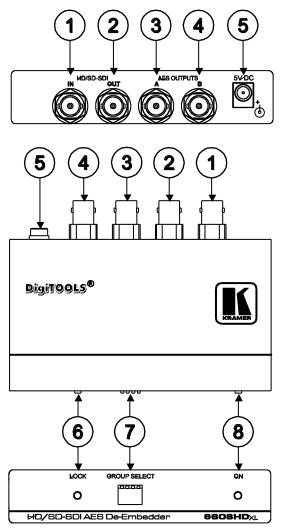


Figure 1: 6808HDxl HD/SD-SDI AES De-Embedder

Table 1: 6808HDxl HD/SD-SDI AES De-Embedder Features

#	Feature	Function
1	HD/SD-SDI IN BNC Connector	Connects to the SDI source
2	HD/SD-SDI OUT BNC Connector	Connects to the SDI acceptor
3	AES OUTPUT A	Connects to AES acceptor 1 (channel 1)
4	AES OUTPUT B	Connects to AES acceptor 2 (channel 2)
5	5V DC	+5V DC connector for powering the unit
6	LOCKLED	Illuminates green when an SD signal is detected or blue when an HD signal is detected
7	GROUP SELECT DIP-switches	Selects the audio group to de-embed (from 1 to 4)
8	ONLED	Illuminates green when the power is connected

5 Connecting the 6808HDxl

To connect the **6808HDxl** *HD/SD-SDI AES De-Embedder*, as illustrated in the example in *Figure 3*, do the following¹:

- Connect an SD/HD/3G HD-SDI source (such as an HD/SD digital video player) to the HD/SD-SDI IN BNC connector.
- Connect the HD/SD-SDI OUT BNC connector to an SDI acceptor (such as an SDI display).
- 3. Connect the AES OUTPUT A BNC connector (for channel 1) to AES digital audio acceptor 1 (such as DAT-Recorder 1).
- 4. Connect the AES OUTPUT B BNC connector (for channel 2) to AES digital audio acceptor 2 (such as DAT-Recorder 2).
- Set the GROUP SELECT DIP-switch ON for the group to de-embed (from 1 to 4). Figure 2 shows group 1 selected.
 Note: Set one switch ON only. Set all other switches OFF.
- 6. Connect the 5V DC power adapter to the power socket and connect the adapter to the mains electricity (not shown in *Figure 3*).

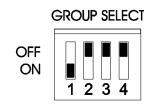


Figure 2: Group Select DIP-Switches

¹ Switch OFF the power on each device before connecting it to your 6808HDxl. After connecting the devices, connect the power to the 6808HDxl, then switch on the power on each device. The unit recalls its settings after powering down



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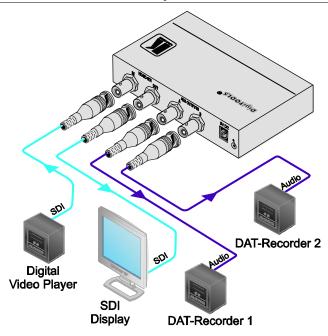


Figure 3: Connecting a 6808HDxl HD/SD-SDI AES De-Embedder

6 Technical Specifications

The **6808HDxl** technical specifications are shown in *Table 2*:

Table 2: 6808HDxl Technical Specifications¹

INPUT:	1 x SD/HD/3G HD-SDI
OUTPUTS:	1 x SD/HD/3G HD-SDI, 2 x AES-3id on BNC Connectors
POWER SOURCE:	5V DC, 390mA
DIMENSIONS	12cm x 7.5cm x 2.5cm (4.7" x 3.0" x 1.0") W, D, H
WEIGHT:	0.3kg (0.7lbs)
ACCESSORIES:	Power supply
OPTIONS:	19" rack adapter

¹ Specifications are subject to change without notice

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:

- 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.
- 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:

- 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:
- 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.

 $This \, equipment \, has \, been \, tested \, to \, determine \, compliance \, with \, the \, requirements \, of: \, and \, compliance \, with the \, requirements \, of: \, compliance \, with the \, c$

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)



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

We welcome your questions, comments and feedback.



Safety Warning:

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





Kramer Electronics, Ltd.

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