Kramer Electronics, Ltd.



USER MANUAL

Model:

VP-200NAK

1:2 XGA / Audio DA

Download from Www.Somanuals.com. All Manuals Search And Download.

Contents

1	Introduction	1
2	Getting Started	1
2.1	Quick Start	1
3	Overview	3
4	Your VP-200NAK 1:2 XGA / Audio DA	4
4.1	The Machine Underside	6
5	Connecting the VP-200NAK 1:2 XGA / Audio DA	7
6	Technical Specifications	9

Figures

Figure 1: VP-200NAK 1:2 XGA / Audio DA	4
Figure 2: VP-200NAK (Top Side Panel)	4
Figure 3: VP-200NAK (Lower Side Panel)	4
Figure 4: VP-200NAK 1:2 XGA / Audio DA (Underside)	6
Figure 5: Connecting the VP-200NAK 1:2 XGA / Audio DA	8

Tables

Table 1: VP-200NAK 1:2 XGA / Audio DA Features	5
Table 2: VP-200NAK 1:2 XGA / Audio DA Underside Features	6
Table 3: Technical Specifications of the VP-200NAK 1:2 XGA / Audio DA	9

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 Groups¹, which are clearly defined by function. Congratulations on purchasing your Kramer TOOLS **VP-200NAK** *1:2 XGA / Audio DA*, which is ideal for:

- Rental and staging systems
- Schools, churches, corporate applications

The package includes the following items:

- VP-200NAK 1:2 XGA / Audio DA
- Power adapter (12V DC Input) and 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

2.1 Quick Start

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

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



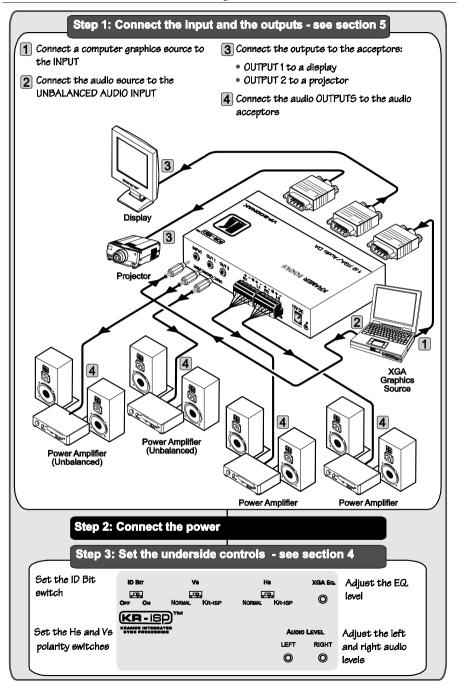
¹ GROUP 1: Distribution Amplifiers; GROUP 2: Video and Audio Switchers, Matrix Switchers and Controllers; GROUP 3:

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 the Internet at this URL: http://www.kramerelectronics.com

Getting Started



3 Overview

The Kramer TOOLS **VP-200NAK** is a 1:2 distribution amplifier for XGA and higher or lower resolution signals, as well as unbalanced stereo audio signals and/or balanced stereo audio signals, with a unique new feature. It includes the Kramer innovative integrated sync processing; KR - ISPTM technology, which lets you achieve a sharp, stable image when the sync level is too low, by restoring the sync signal waveform.

The VP-200NAK 1:2 XGA / Audio DA:

- Accepts one XGA input, provides correct buffering and isolation, and then distributes the signal to two identical outputs on high-density 15 pin HD connectors
- Accepts an unbalanced stereo audio input, and simultaneously outputs two unbalanced stereo audio outputs on mini plug connectors, and two balanced stereo audio outputs on terminal block connectors
- With its video bandwidth exceeding 400MHz, ensures transparent operation at high-resolution graphics modes such as UXGA (1600x1200)
- Accepts analog or digital syncs¹ and provides ID Bit control² as well as separate controls for audio output level and XGA equalization
- Is 12VDC fed

Achieving the best performance means:

- Connecting 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)
- Avoiding interference from neighboring electrical appliances and positioning your **VP-200NAK** 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 $unit^3$.

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

2 Via an underside switch. Sometimes notebook computers refuse to output a VGA signal to an external VGA monitor. By setting the ID BIT to ON, the notebook will output to an external VGA monitor

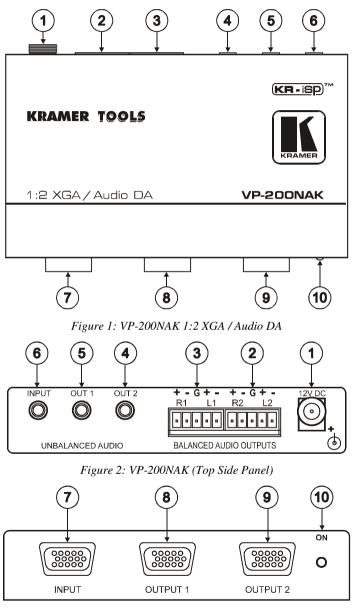
3 For example: model number AD2512C, part number 2535-000251



¹ Via a pair of underside switches. Note that both the Hs (horizontal sync) switch and the Vs (vertical sync) switch MUST be set identically

4 Your VP-200NAK 1:2 XGA / Audio DA

Figure 1, Figure 2, Figure 3 and Table 1 define the VP-200NAK:





Download from Www.Somanuals.com. All Manuals Search And Download.

#	Feature		Function
1	12V DC		+12V DC connector for powering the unit
2	BALANCED AUDIO OUTPUTS	R2, L2	Connects balanced stereo audio to the audio acceptor 2
3	Terminal Block Connector	R1, L1	Connects balanced stereo audio to the audio acceptor 1
4	UNBALANCED AUDIO	OUT 2	Connects unbalanced stereo audio to the audio acceptor 2
5	3.5mm Mini plug Connectors	OUT 1	Connects unbalanced stereo audio to the audio acceptor 1
6		INPUT	Connects audio to the audio source
7	INPUT HD15F Connector		Connect to the computer graphics source
8	OUTPUT 1 HD15F Connector		Connect to the computer graphics acceptor 1
9	OUTPUT 2 HD15F Connector		Connect to the computer graphics acceptor 2
10	ON LED		Illuminates when receiving power

Table 1: VP-200NAK 1:2 XGA / Audio DA Features



4.1 The Machine Underside

Figure 4 and Table 2 define the underside of the VP-200NAK:

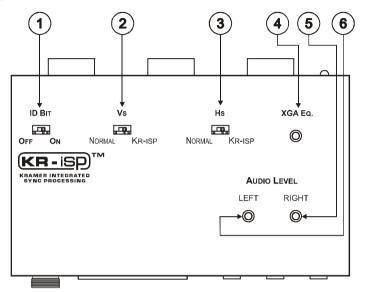


Figure 4: VP-200NAK 1:2 XGA / Audio DA (Underside)

#	Feature		Function
1	ID Bit Switch		Slide to the right to set to ON ¹ ; to the left to set to OFF
2	Vs Switch		Slide the switch to the left (NORMAL) for standard polarity; slide the switch to the right (KR-ISP ²) to KR-ISP for crisp polarity
3	Hs Switch		Slide the switch to the left (NORMAL) for standard polarity; slide the switch to the right (KR-ISP ²) to KR-ISP for crisp polarity
4	XGA EQ. Trimmer		Adjusts ³ the XGA EQ. (equalization) compensation
5	AUDIO LEVEL	RIGHT	Adjusts ³ the right output signal level
6	Trimmers	LEFT	Adjusts ³ the left output signal level

¹ The default. Enabling the notebook or laptop to output a VGA signal to an external VGA monitor

² By default, both switches are set to KR-ISP

³ Insert a screwdriver into the small hole and carefully rotate it, trimming the level

5 Connecting the VP-200NAK 1:2 XGA / Audio DA

To connect your **VP-200NAK** 1:2 XGA / Audio DA, as the example in Figure 5 illustrates, do the following¹:

- 1. Connect a computer graphics source to the INPUT HD15F connector.
- 2. Connect² the OUTPUT HD15F connectors to up to two acceptors, as follows:
 - Connect the OUTPUT 1 connector to acceptor 1 (for example, a display)
 - Connect the OUTPUT 2 connector to acceptor 2 (for example, a projector)
- 3. Connect the unbalanced audio source (for example, the computer graphics source audio) to the UNBALANCED AUDIO INPUT 3.5mm mini Jack connector.
- Connect the UNBALANCED AUDIO OUT 1 and OUT 2, 3.5mm mini jack connectors, to up to two unbalanced audio acceptors (for example, power amplifiers).
- Connect² the BALANCED AUDIO OUTPUT (R1, L1 and R2, L2) terminal block connectors to up to two balanced audio acceptors (for example, power amplifiers).
- 6. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity (not shown in Figure 5).
- 7. If required, on the underside of the VP-200NAK:
 - Set the Hs and Vs switches
 - Set the ID Bit switch to ON
 - Adjust³ the right and left audio signal levels
 - Adjust³ the XGA EQ. level

³ Insert a screwdriver into the small hole and carefully rotate it, trimming the OUTPUT level



¹ Switch OFF the power on each device before connecting it to your VP-200NAK. After powering up your VP-200NAK, switch on the power on each device

² When only one output is required, use either of the outputs, and leave the other output unconnected

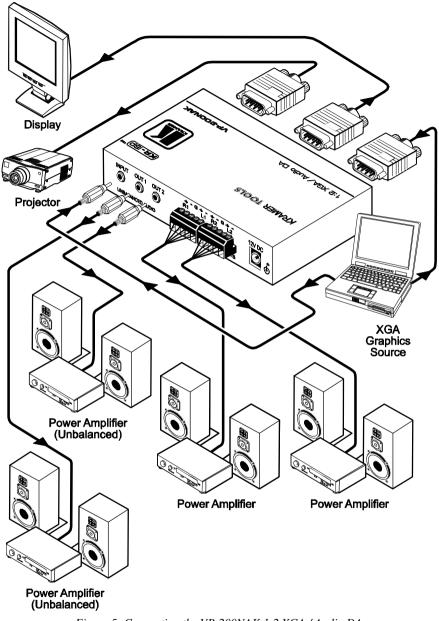


Figure 5: Connecting the VP-200NAK 1:2 XGA / Audio DA

6 Technical Specifications

Table 3 includes the technical specifications:

Table 3: Technical Specifications¹ of the VP-200NAK 1:2 XGA / Audio DA

1		
1 unbalanced audio stereo on a 3	.5mm mini jack audio connector	
2 XGA on HD15F connectors		
2 unbalanced audio stereo on 3.5		
2 balanced audio stereo on detacl	hable terminal blocks	
VIDEO: 2.5Vpp	Audio: 7.2Vpp, balanced and unbalanced	
Video: 425MHz	AUDIO: >100kHz, balanced and unbalanced	
0.74%		
0.16 Deg.		
<0.05%		
VIDEO: 72dB @5MHz	AUDIO: 89dB (unbalanced); 93dB (balanced)	
-49dB XGA into audio @5MHz		
VIDEO: XGA EQ: 0dB to 4.8dB @50MHz; ID BIT switch; Hs and Vs switches for setting the sync (normal or KR-ISP)	AUDIO: R+L -91dB to 6.3dB	
VIDEO: DC	AUDIO: AC at the output; DC at the input	
0.026% (unbalanced); 0.016% (balanced)		
0.004% (unbalanced); 0.002% (balanced)		
12 VDC, 100mA		
12cm x 7.18cm x 2.42cm (4.7" x 2.8" x 0.95"), W, D, H		
0.3 kg. (0.67 lbs.) approx.		
Power supply, mounting bracket		
19" rack adapters		
	2 unbalanced audio stereo on 3.5 2 balanced audio stereo on detac VIDEO: 2.5Vpp Video: 425MHz 0.74% 0.16 Deg. <0.05% VIDEO: 72dB @5MHz -49dB XGA into audio @5MHz VIDEO: XGA EQ: 0dB to 4.8dB @50MHz; ID BIT switch; Hs and Vs switches for setting the sync (normal or KR-ISP) VIDEO: DC 0.026% (unbalanced); 0.016% (ba 0.004% (unbalanced); 0.016% (ba 12 VDC, 100mA 12cm x 7.18cm x 2.42cm (4.7" x 2 0.3 kg. (0.67 lbs.) approx. Power supply, mounting bracket	

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.
- 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:

- 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.
- 3. 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:
- 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.



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.



CE

Kramer Electronics, Ltd. Web site: www.kramerelectronics.com E-mail: info@kramerel.com P/N: 2900-000263 REV 1 Download from Www.Somanuals.com. All Manuals Search And Download. Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com