

Kramer Electronics, Ltd.



USER MANUAL

Model:

VP-8K

VP-8K 1:8 VGA / UXGA Distributor

Contents

1	Introduction	1
2	Getting Started	1
2.1	Quick Start	2
3	Overview	3
4	Your VP-8K 1:8 VGA / UXGA Distributor	4
5	Connecting the VP-8K 1:8 VGA / UXGA Distributor	5
6	Technical Specifications	6

Figures

Figure 1: VP-8K 1:8 VGA / UXGA Distributor	4
Figure 2: Connecting the VP-8K 1:8 VGA / UXGA Distributor	5

Tables

Table 1: Features and Functions of the VP-8K 1:8 VGA / UXGA Distributor	4
Table 2: Technical Specifications of the VP-8K 1:8 VGA / UXGA Distributor	6

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 groups¹ that are clearly defined by function.

Congratulations on purchasing your Kramer **VP-8K 1:8 VGA / UXGA Distributor**.

The **VP-8K** is ideal for:

- Presentation systems requiring a local monitor and projector operating simultaneously
- Schools, churches, rental/staging

The package includes the following items:

- **VP-8K 1:8 VGA / UXGA Distributor**
- 5V DC power supply
- 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

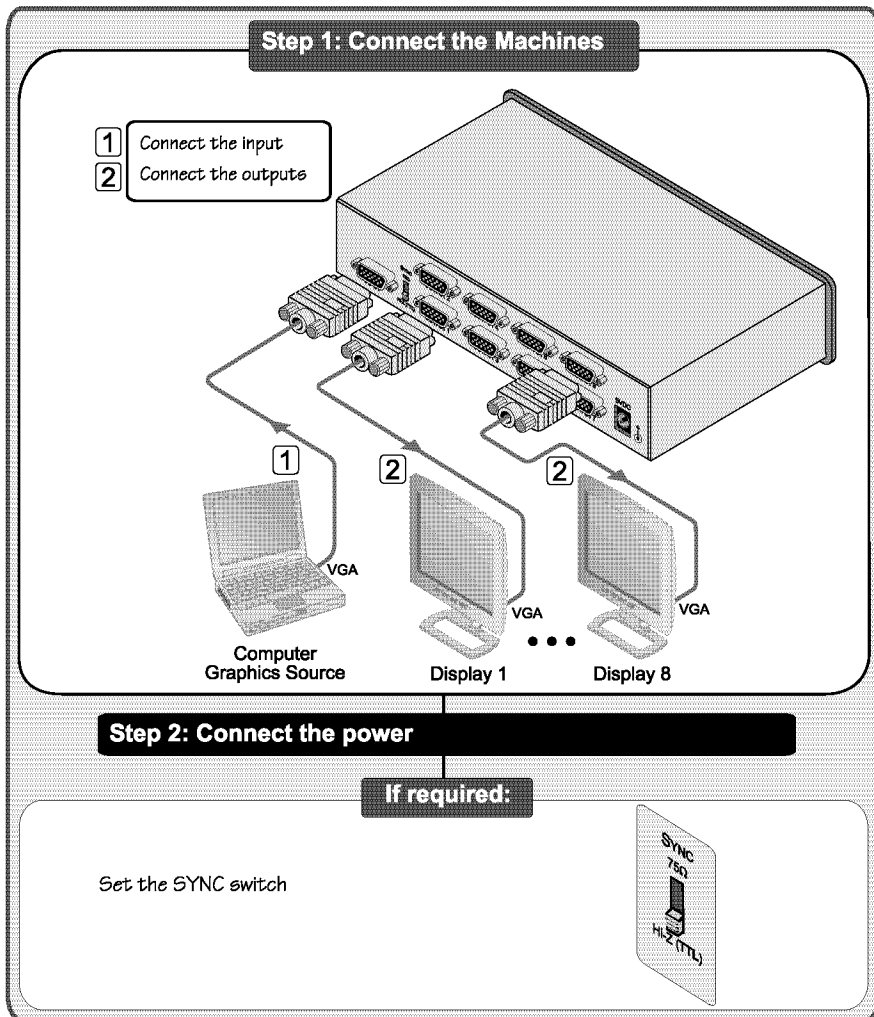
1 GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity;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

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

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

2.1 Quick Start

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



3 Overview

The **VP-8K** is a high-performance, HDTV compatible distribution amplifier for computer graphics signals, with resolutions exceeding UXGA. It accepts one computer graphics input, and outputs it to eight computer graphics signals. In particular, the **VP-8K** features:

- A high video bandwidth of 370MHz, ensuring that it remains transparent even at high-resolution graphics modes such as UXGA (1600x1200)
- An internal ID Bit control as well as internal KR-ISP™ technology, which provides a sharp, stable image when the sync level is too low, by restoring the sync signal waveform
- A termination switch
- A desktop-sized enclosure and it is 5V DC fed

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 and position your Kramer **VP-8K** 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 unit¹.

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

¹ For example, part number 2535-052002

4 Your VP-8K 1:8 VGA / UXGA Distributor

Figure 1 and Table 1 define the **VP-8K 1:8 VGA / UXGA Distributor**:

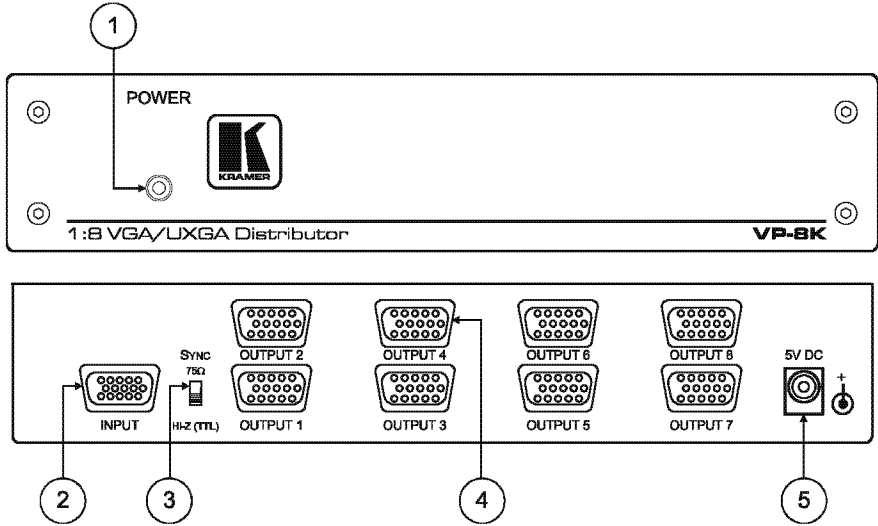


Figure 1: VP-8K 1:8 VGA / UXGA Distributor

Table 1: Features and Functions of the VP-8K 1:8 VGA / UXGA Distributor

#	Feature	Function
1	POWER LED	Lights when the unit is connected to the power
2	INPUT 15-pin HD (F) Connector	Connect to the VGA/UXGA source
3	SYNC 75Ω / Hi-Z (TTL) Switch	Set to Hi-Z (TTL ¹) if the source is, for example, a digital graphics card. Set to 75Ω if the source is analog based, for example, an RGBHV source with coaxial cable for sync
4	OUTPUT 15-pin HD (F) Connector	Connect to the VGA/UXGA acceptors (from 1 to 8)
5	5V DC	+5V DC connector for powering the unit

¹ “Transistor-Transistor Logic” is a term used in digital electronics describing the ability of a device or circuit to be connected directly to the input or output of digital equipment. Such compatibility eliminates the need for interfacing circuitry

5 Connecting the VP-8K 1:8 VGA / UXGA Distributor

To connect the **VP-8K**, as the example in Figure 2 illustrates:

1. Connect a computer graphics source to the VGA / UXGA INPUT 15-pin HD (F) connector.
2. Connect the VGA / UXGA OUTPUT 15-pin HD (F) connectors to up to¹ eight acceptors (for example, displays).
3. Connect the 5V DC power adapter to the power socket and connect the adapter to the mains electricity (not illustrated in Figure 2).
4. Set the SYNC 75 Ω / Hi-Z (TTL) switch to the Hi-Z (TTL) position.

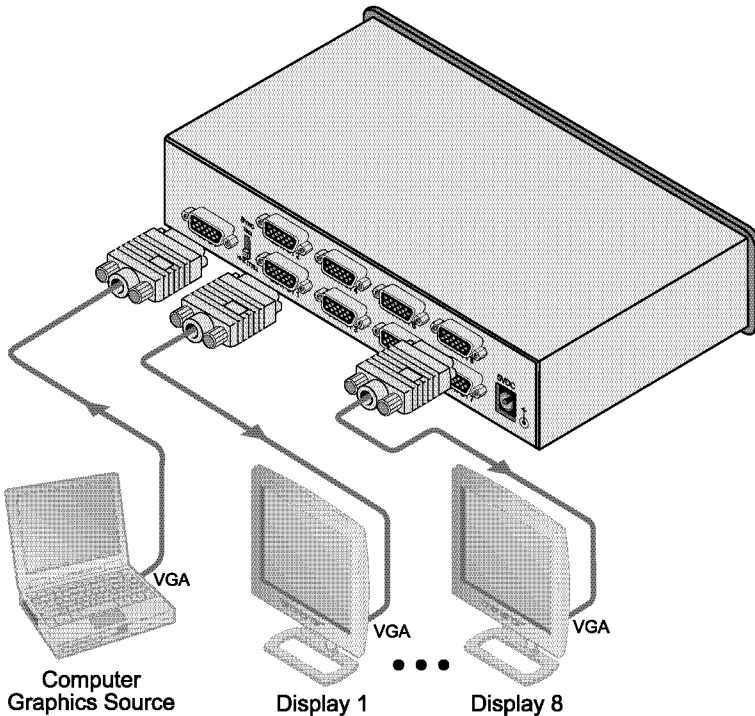


Figure 2: Connecting the VP-8K 1:8 VGA / UXGA Distributor

¹ When not all outputs are required, connect only the output(s) that is required and leave the other outputs unconnected

6 Technical Specifications

Table 2: Technical Specifications¹ of the VP-8K 1:8 VGA / UXGA Distributor

INPUT:	1 VGA / UXGA on an 15-PIN HD (F) connector
OUTPUTS:	8 VGA / UXGA on 15-PIN HD (F) connectors
MAX. OUTPUT LEVEL:	2.2Vpp
BANDWIDTH (-3dB):	370MHz
DIFF. GAIN:	0.05%
DIFF. PHASE:	0.05 Deg
K-FACTOR:	<0.05%
S/N RATIO:	73dB
CONTROLS:	TTL/ANALOG switch (on the rear panel)
COUPLING:	DC
POWER SOURCE:	5V DC, 390mA
DIMENSIONS:	21.46cm x 16.25cm x 4.36cm (8.45" x 6.4" x 1.72") W, D, H
WEIGHT:	0.7kg (1.5lbs) approx.
ACCESSORIES:	Power supply (5V/2A)
OPTIONS:	RK-1 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:

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.
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.
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.
* 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.



Caution

Safety Warning:

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



Kramer Electronics, Ltd.

Web site: www.kramerelectronics.com

E-mail: info@kramerel.com

P/N: 2900-000494 REV 1