

Kramer Electronics, Ltd.



USER MANUAL

Model:

VP-8K

VP-8K 1:8 VGA / UXGA Distributor

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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 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

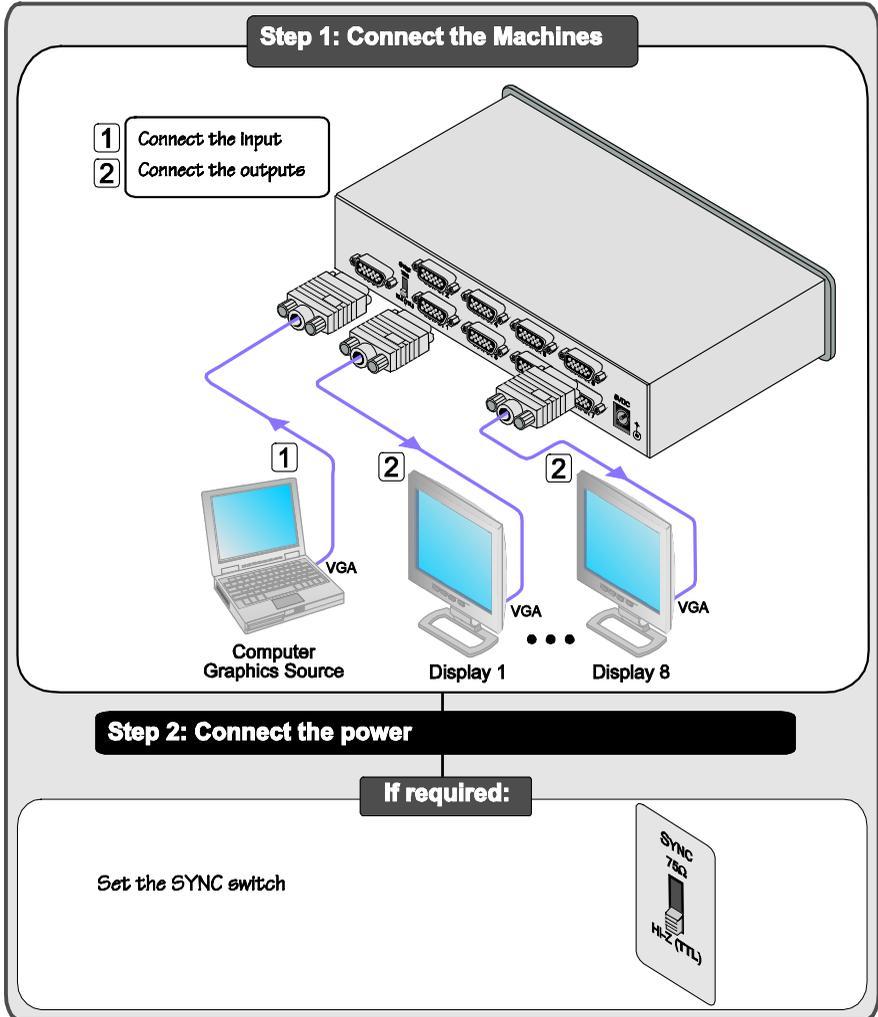
1 GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity;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

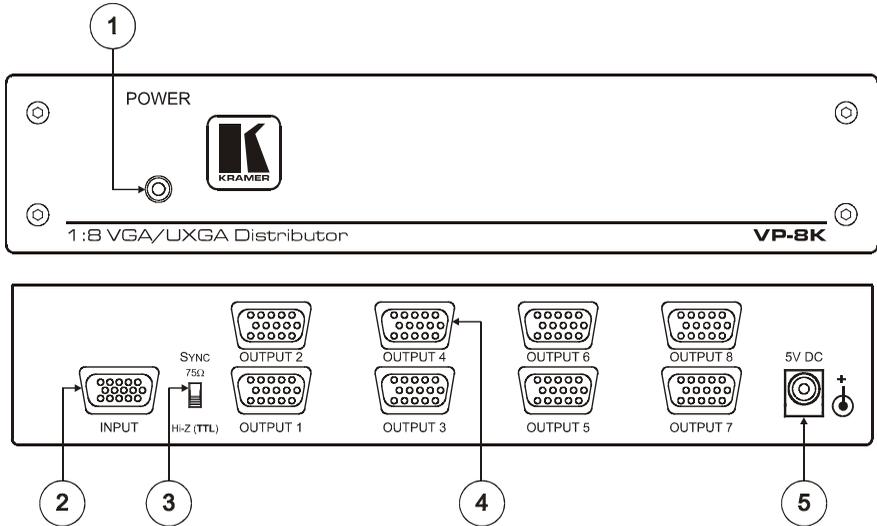


Figure 1: VP-8K 1:8 VGA / UXGA Distributor

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.

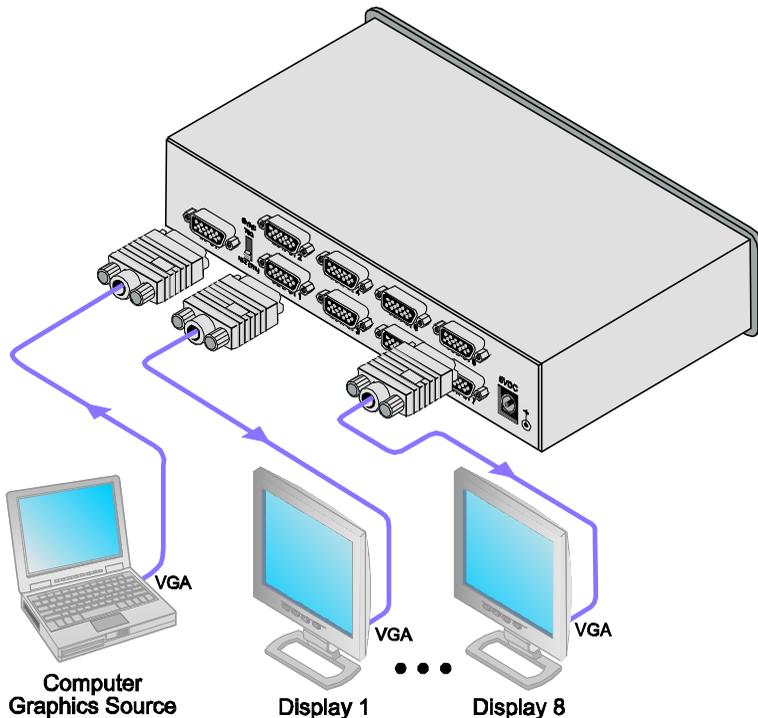


Figure 2: Connecting the VP-8K 1:8 VGA / UXGA Distributor

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

The warranty obligations of Kramer Electronics for this product are limited to the terms set forth below:

What is Covered

This limited warranty covers defects in materials and workmanship in this product.

What is Not Covered

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Kramer Electronics to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover cartons, equipment enclosures, cables or accessories used in conjunction with this product.

Without limiting any other exclusion herein, Kramer Electronics does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

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Seven years as of this printing; please check our Web site for the most current and accurate warranty information.

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What Kramer Electronics will do

Kramer Electronics will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1. Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition. Kramer Electronics will also pay the shipping costs necessary to return this product once the repair is complete.
2. Replace this product with a direct replacement or with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.
3. Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

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If this product is returned to Kramer Electronics or the authorized dealer from which it was purchased or any other party authorized to repair Kramer Electronics products, this product must be insured during shipment, with the insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment. Kramer Electronics will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. Kramer Electronics will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

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In order to pursue any remedy under this limited warranty, you must possess an original, dated receipt as proof of purchase from an authorized Kramer Electronics reseller. If this product is returned under this limited warranty, a return authorization number, obtained from Kramer Electronics, will be required. You may also be directed to an authorized reseller or a person authorized by Kramer Electronics to repair the product.

If it is decided that this product should be returned directly to Kramer Electronics, this product should be properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization number will be refused.

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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.



PN: 2900-000494



Rev: 2

Kramer Electronics, Ltd.

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P/N: 2900-000494 REV 2