



KRAMER ELECTRONICS LTD.

# USER MANUAL

MODEL:

**RK-6PS**

Rack Adapter with Power  
Supplies

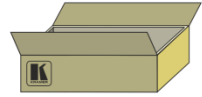


## RK-6PS Quick Start Guide

This guide helps you install and use your product for the first time. For more detailed information, go to <http://bit.ly/k-prod-downloads> to download the latest manual or scan the QR code on the left.

### Step 1: Check what's in the box

- ☒ **RK-6PS** Rack Adapter with power supplies
- ☒ 20 flat head M3x5 screws
- ☒ 8 black cable ties
- ☒ 4 pan head M3x8 screws
- ☒ 1 half-19" 1U blank panel



### Step 2: Installation combinations

You can mount and combine different sizes of Kramer machines onto the **RK-6PS**:  
1/2-19" 1U units, 1/4-19" 1U units, 1/8-19" 1U units, as well as 6.5"-1U units

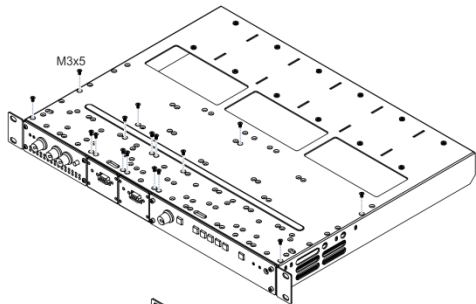
You can order:

- **Power supplies:** 5V/12V power supplies for the USA, Europe, the UK (with or without a C14 power cord cable) and also the **RK-PS1** adapter that holds a power supply and is mounted onto the **RK-6PS**
- **Blank panels:** 1/4U-19", 1/8U-19", short 6.5"1U, long 6.5"1U

### Step 3: Mounting Kramer machines

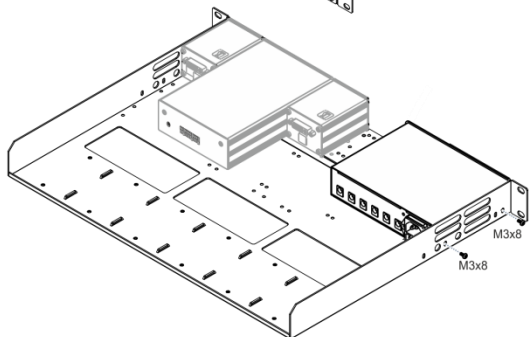
#### Mounting via underside screw-holes:

Use the appropriate number of M3x5 screws to mount each machine (one after the other) from the underside of the **RK-6PS**.



#### Mounting via side screw-holes:

unscrew the two M3x5 screws from the machine side and insert two M3x8 screws to attach to the side of the **RK-6PS**.

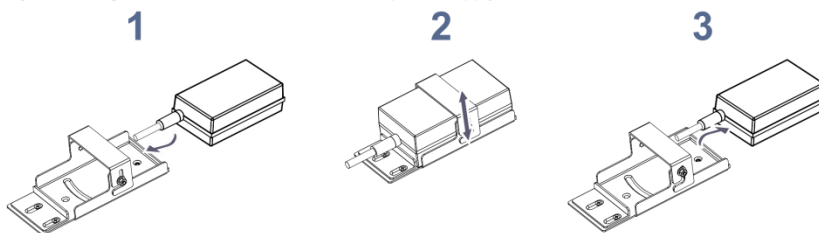


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## Step 4: Mounting the power supply units

### Preparing the RK-PS1 adapter:

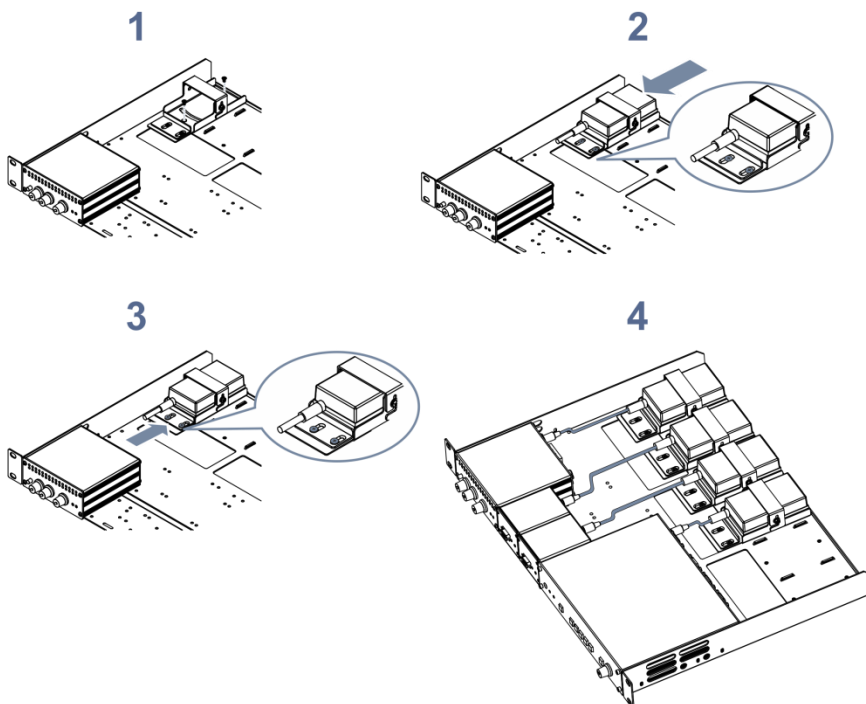
Adjust the height of the **RK-PS1** so that it fits the power supply unit:



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### Mounting the RK-PS1 onto the RK-6PS:

Mount up to six RK-PS1 units, connect each power supply to a device.



Connect the power supply to the mains electricity using the C14 cable cord

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# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Getting Started</b>	<b>2</b>
2.1	Achieving the Best Performance	2
2.2	Recycling Kramer Products	2
<b>3</b>	<b>Overview</b>	<b>3</b>
<b>4</b>	<b>Defining the RK-6PS</b>	<b>4</b>
4.1	RK-6PS Installation Combinations	5
<b>5</b>	<b>Mounting the Devices on the Rack Adapter</b>	<b>8</b>
5.1	Mounting devices with no Underside Screw Holes	9
5.2	Connecting a Blank Panel to the RK-6PS	11
<b>6</b>	<b>Mounting the RK-PS1 onto the RK-6PS</b>	<b>12</b>
6.1	Mounting the RK-PS1	12
<b>7</b>	<b>Technical Specifications</b>	<b>17</b>

## Figures

Figure 1: RK-6PS Rack Adapter	4
Figure 2: RK-6PS Rack Adapter – Underside	9
Figure 3: Mounting a half-19" Device via Screws on the RK-6PS Side Panel	10
Figure 4: Mounting a 6.5" Device via Screws on the RK-6PS Side Panel	10
Figure 5: RK-6PS Rack Adapter – Connecting a Blank Panel	11
Figure 6: Attaching the RK-PS1	14
Figure 7: Inserting the Power Supply Unit	14
Figure 8: Setting the Adjustment Plate	15
Figure 9: Connecting the power cable to the Device	15
Figure 10: Connecting Additional RK-PS1 Adapters	16
Figure 11: Connecting the Power Supply to the other Devices	16

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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 video, audio, presentation, and broadcasting professionals 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 14 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Routers; 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 Video Products; GROUP 12: Digital Signage; GROUP 13: Audio; and GROUP 14: Collaboration.

Congratulations on purchasing your Kramer **RK-6PS** *Rack Adapter with Power Supplies*, which is ideal for mounting combinations of several 1U Kramer products in a 19" rack together with the Kramer **RK-PS1** adapter for a power supply unit (purchased separately), per product. These include 1/2-19" 1U units, 1/3-19" 1U units, 1/4-19" 1U units, 1/8-19" 1U units and separately, up to two 6.5"-1U units.

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## 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



Go to [http://www.kramerelectronics.com/support/product\\_downloads.asp](http://www.kramerelectronics.com/support/product_downloads.asp) 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 (we recommend Kramer high-performance, high-resolution cables) to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Do not secure the cables in tight bundles or roll the slack into tight coils
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality
- Position your Kramer **RK-6PS** away from moisture, excessive sunlight and dust



This equipment is to be used only inside a building. It may only be connected to other equipment that is installed inside a building.

### 2.2 Recycling Kramer Products

The Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC aims to reduce the amount of WEEE sent for disposal to landfill or incineration by requiring it to be collected and recycled. To comply with the WEEE Directive, Kramer Electronics has made arrangements with the European Advanced Recycling Network (EARN) and will cover any costs of treatment, recycling and recovery of waste Kramer Electronics branded equipment on arrival at the EARN facility. For details of Kramer's recycling arrangements in your particular country go to our recycling pages at <http://www.kramerelectronics.com/support/recycling/>.

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## 3 Overview

The **RK-6PS** is a 19" 1U rack adapter for mounting a combination of several Kramer TOOLS together with **RK-PS1** power supply adapters (purchased separately) that are attached to the rack adapter. These include:

- Up to 6 **RK-PS1** adapters with power supply units
- 1/2-19" 1U units—for example, two **VP-5xl** units (see [Section 4.1.1](#))
- 1/4-19" 1U units—for example, four **FC-31xl** units, or two **FC-31xl** units with one **VP-5xl** unit (see [Section 4.1.1](#))
- 1/8-19" 1U units—for example, up to eight **PS-1DVI** units, six of which are connected to a PS (see [Section 4.1.1](#))
- 6.5"-1U units—for example, two **VM-50V** units with a short blank panel in between them, or one **VM-50V** unit with a short blank panel and a long blank panel (see [Section 4.1.3](#))

## 4 Defining the RK-6PS

The example in [Figure 1](#) illustrates the mounting of:

- One 1/2-19" unit (for example, the Kramer **VP-31**)
- One 1/4-19" 1U unit (for example, the Kramer MultiTOOLS® **907xl**)
- Two 1/8-19" 1U units (for example, two Kramer MultiTOOLS® **FC-50**)

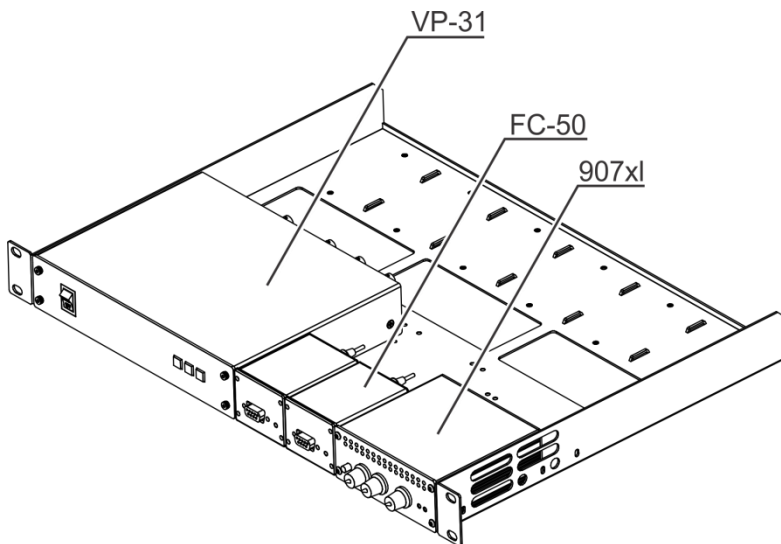


Figure 1: RK-6PS Rack Adapter



You can order additional blank panels to cover a 1/4-19" 1U opening (P/N 60-900014) and/or a 1/8-19" 1U opening (P/N 60-900015) on the **RK-6PS**, See [Section 4.1.3](#).



## 4.1 RK-6PS Installation Combinations

This section describes the **RK-6PS** installation combinations.



### 4.1.1 MultiTOOL Installation combinations

You can use the **RK-6PS** to mount different combinations of products:

Mounting Kramer Products on the RK-6PS (measured in inches)								For example:
1/2		1/2				<ul style="list-style-type: none"><li>• 2 PIP-4, or</li><li>• 2 FC-7501</li></ul>		
1/2		1/4	1/4		<ul style="list-style-type: none"><li>• 1 PIP-4</li><li>• 1 907xl</li><li>• 1 102xl</li></ul>			
1/2		1/4	1/8	1/8		<ul style="list-style-type: none"><li>• 1 PIP-4</li><li>• 1 907xl</li><li>• 1 PS-1DVI</li><li>• 1 PT-1PS</li></ul>		
1/2		1/8	1/8	1/8	1/8	<ul style="list-style-type: none"><li>• 1 FC-7501</li><li>• 2 PS-1DVI</li><li>• 2 PT-120xl</li></ul>		
1/4	1/4	1/4		1/4			<ul style="list-style-type: none"><li>• 1 FC-31xl</li><li>• 1 907xl</li><li>• 2 102xl</li></ul>	
1/4	1/4	1/4		1/8	1/8		<ul style="list-style-type: none"><li>• 2 FC-31xl units</li><li>• 1 102xl unit</li><li>• 2 PS-1DVI units</li></ul>	
1/4	1/4	1/8	1/8	1/8	1/8		<ul style="list-style-type: none"><li>• 2 102xl units</li><li>• 2 PS-1DVI units</li><li>• 2 PT-1PS units</li></ul>	
1/4	1/8	1/8	1/8	1/8	1/8	1/8	<ul style="list-style-type: none"><li>• 1 FC-31xl unit</li><li>• 3 PS-1DVI units</li><li>• 3 PT-1PS units</li></ul>	
1/8	1/8	1/8	1/8	1/8	1/8	1/8	<ul style="list-style-type: none"><li>• 4 PS-1DVI units</li><li>• 4 PT-1PS units</li></ul>	






4.1.2 6.5" Installation combinations

You can mount one or two Kramer 6.5" products in a 19" 1U rack using the **RK-6PS** rack adapter and close-up the empty space(s) with blank panels (see in [Section 4.1.3](#)).

Mounting Kramer 6.5"-1U Devices on the RK-6PS	For example:	Notes:
	<ul style="list-style-type: none"><li>• 1 VM-50V</li><li>• 1 VA-50P</li></ul>	Use the short blank panel to close the gap between the units, see <a href="#">Section 4.1.3</a>
	<ul style="list-style-type: none"><li>• 1 VM-30AV</li></ul>	Use one long and one short blank panel to close the gap between the units, see <a href="#">Section 4.1.3</a>

4.1.3 Using Blank Panels

Different types of blank panels are available and are used to cover-up gaps.

Appearance	Blank Panel Description	Part Number
	PNL-BLANK/1/2U-19"	60-900013
	PNL-BLANK/1/4U-19"	60-900014
	PNL-BLANK/1/8U-19"	60-900015
For 6.5"-1U units only:		
	PNL-BLANK/SHORT6.5"1U With two 6.5" devices	60-900016
	PNL-BLANK/LONG6.5"1U With one 6.5" device and a short blank	60-900017

The following table shows examples of how to install different products together with blanks:

Mounting Kramer Products with Blank Panels on the RK-6PS				For example:
1/2	1/2 Blank			<ul style="list-style-type: none"> <li>• 1 PIP-4</li> <li>• 1 1/2 19" blank panel</li> </ul>
1/2 Blank	1/4 Blank	1/4		<ul style="list-style-type: none"> <li>• 1 1/2 19" blank panel</li> <li>• 1 1/4 19" blank panel</li> <li>• 1 FC-31xl</li> </ul>
1/2	1/4	1/8 Blank	1/8	<ul style="list-style-type: none"> <li>• 1 PIP-4</li> <li>• 1 FC-31xl</li> <li>• 1 1/8 19" blank panel</li> <li>• 1 PT-1PS</li> </ul>
6.5"	SHORT Blank	LONG Blank		<ul style="list-style-type: none"> <li>• 1 VM-50V</li> <li>• 1 SHORT blank panel</li> <li>• 1 LONG blank panel</li> </ul>
6.5"	SHORT Blank	6.5"		<ul style="list-style-type: none"> <li>• 1 VM-50V</li> <li>• 1 SHORT blank panel</li> <li>• 1 VM-50AN</li> </ul>

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## 5 Mounting the Devices on the Rack Adapter

The **RK-6PS** underside includes a set of screw holes that are suitable for the mounting of devices of different sizes (see [Section 4.1](#)).

To mount the devices on the **RK-6PS**, as illustrated in [Figure 1](#), do the following:

1. Place the first device on the rack (for example, the Kramer **907xl**).
2. Hold both the **907xl** and the **RK-6PS** with your hands and turn them upside down.
3. Insert and the appropriate amount of screws through the holes on the **RK-6PS** that correspond to the holes on the underside of the **907xl**, using the M3x5 screws supplied with the device (as illustrated in [Figure 2](#)).
4. Tighten the screws.
5. Rotate the **RK-6PS** horizontally with the device connected.
6. Place the next device (for example, the Kramer **FC-50**) alongside the device that is already mounted.
7. Repeat steps 2 to 6 for each other unit.

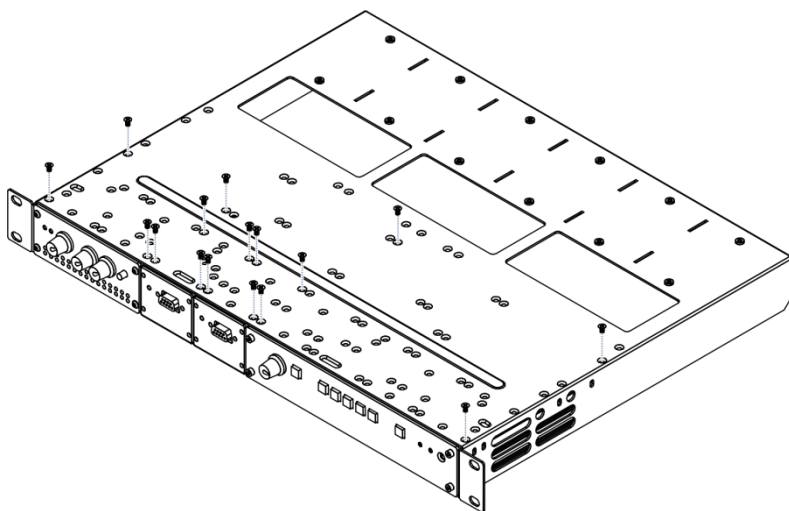


Figure 2: RK-6PS Rack Adapter – Underside

## 5.1 Mounting devices with no Underside Screw Holes

Some Kramer devices do not have screw holes on the underside that correspond exactly to the holes on the **RK-6PS**. These devices (for example, the **FC-7501** (a half-19") or the **VA-50P** (a 6.5" unit)) are connected via the screw holes located on the sides of the **RK-6PS**.

To mount the devices on the **RK-6PS** as illustrated in [Figure 3](#) and [Figure 4](#) (**FC-7501** and the **VA-50P** respectively), do the following:

1. Unscrew the two M3x5 screws from the side panel of the device (for example, the Kramer **FC-7501** or the **VA-50P**), which will be attached to the side panel of the **RK-6PS**.
2. Place the unit on the rack (for example, the Kramer **VP-5xI** or the **VA-50P**), adjacent to the inner side panel of the **RK-6PS**.
3. Insert the two M3x8 screws (supplied with the unit) through the holes on the side panel of the **RK-6PS** that fit the holes on the side panel of the unit (as illustrated in [Figure 3](#) and [Figure 4](#)).
4. Tighten the screws.

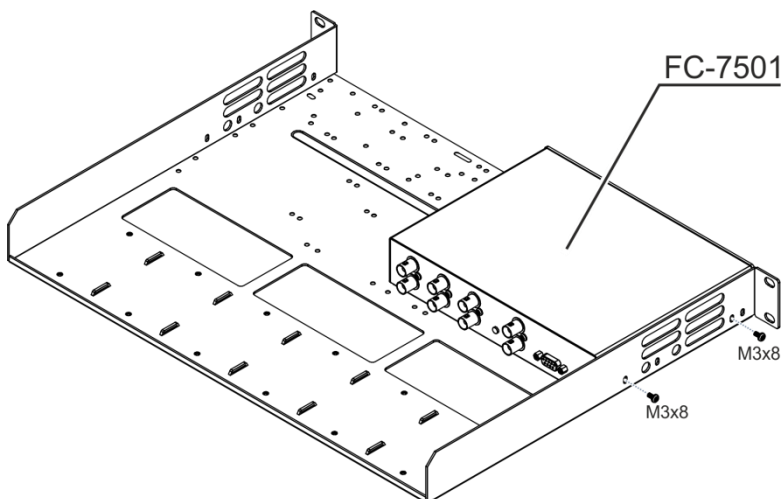


Figure 3: Mounting a half-19" Device via Screws on the RK-6PS Side Panel

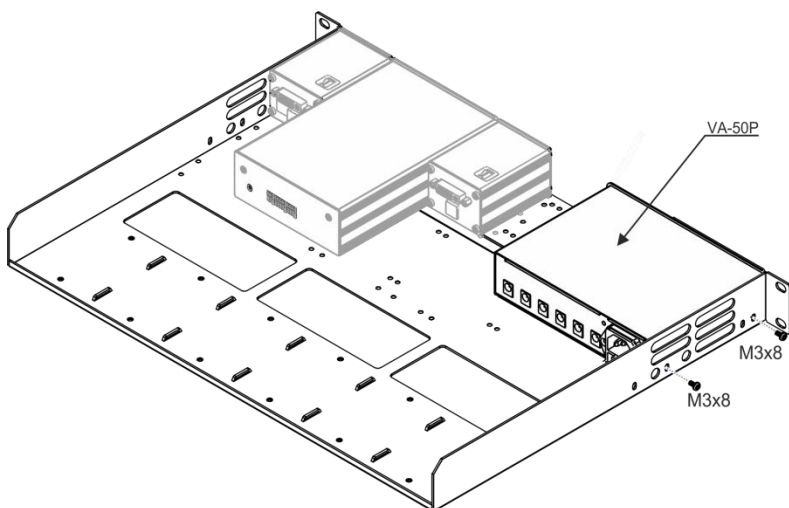


Figure 4: Mounting a 6.5" Device via Screws on the RK-6PS Side Panel

## 5.2 Connecting a Blank Panel to the RK-6PS

You can connect a blank panel to the **RK-6PS** to cover any empty spaces, as the example in [Figure 5](#) illustrates. One 1/2U-19" blank panel is supplied with the **RK-6PS** package; otherwise, you need to purchase a blank panel separately, as detailed in [Section 4.1.3](#).

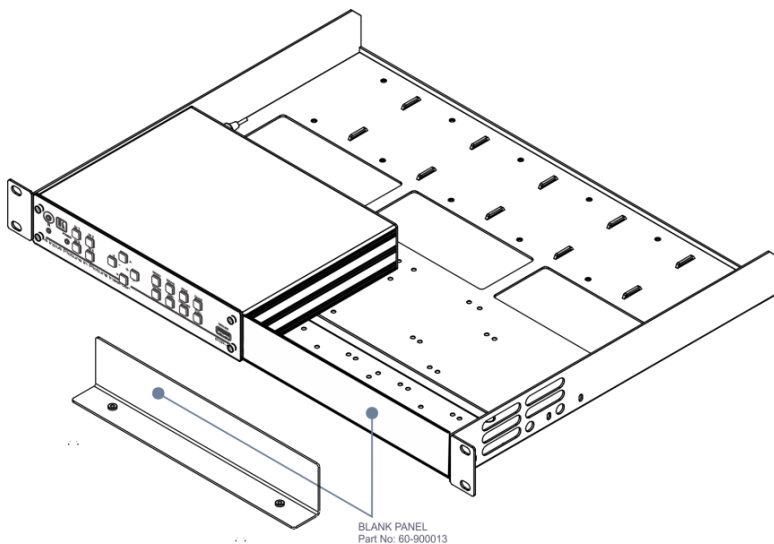


Figure 5: RK-6PS Rack Adapter – Connecting a Blank Panel

# 6 Mounting the RK-PS1 onto the RK-6PS

The optional **RK-PS1** is a small adapter that can hold one power supply and can be attached either to the **RK-6PS** rack adapter (see [Section 6.1.2](#)) or directly to the rack shelf (download the separate **RK-PS1** user manual from our Web site).

## 6.1 Mounting the RK-PS1

The devices mounted onto the **RK-6PS** are powered via individual power supplies that are attached to **RK-6PS** by the **RK-PS1**.

### 6.1.1 Available Power Supply Units

The **RK-PS1** is suitable to hold any of the following power supplies (ordered separately):

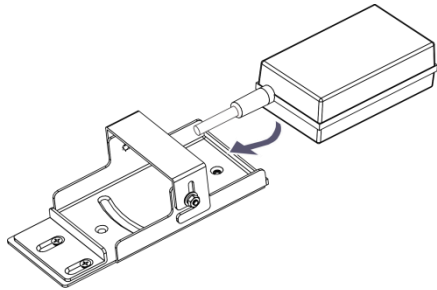
Power Supply for:	Power Specs	
	5V Power Supply Type	12V Power Supply
The USA:	<b>PS-504/US (60-0001895)</b> 5V/4A With a 75cm C14 power cord cable, 100-120V AC, 50/60Hz	<b>PS-1202/US (60-000195)</b> 12V/2A With a 75cm C14 power cord cable, 100-120V AC, 50/60Hz
Europe:	<b>PS-504/EU (60-0001890)</b> 5V/4A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz	<b>PS-1202/EU (60-000190)</b> 12V/2A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz
UK:	<b>PS-504/GB (60-0001893)</b> 5V/4A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz	<b>PS-1202/GB (60-000193)</b> 12V/2A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz
General use (does not include the power cord):	<b>PS-1202 (60-0001899)</b> 5V/4A 100-240V AC, 50/60Hz	<b>PS-1202 (60-0001099)</b> 12V/2A 100-240V AC, 50/60Hz



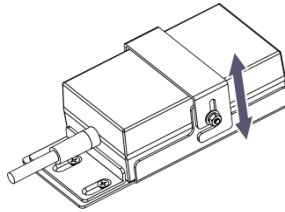
### 6.1.2 Mounting the RK-PS1 onto the RK-6PS

To adjust the **RK-PS1** to the selected power supply:

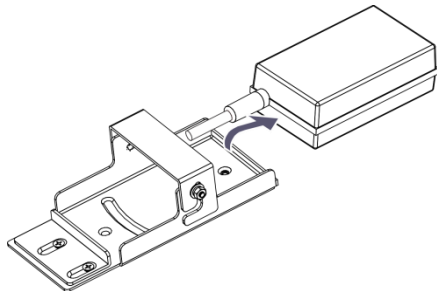
Insert the power supply into the **RK-PS1**.



Adjust the height of the **RK-PS1** by partially releasing and then tightening the two nuts on the sides so that the power supply fits well.



Remove the power supply.



Up to six **RK-PS1** units can be mounted onto the **RK-6PS**, providing power to up to six mounted devices. To mount the **RK-PS1** onto the **RK-6PS**:

1. Insert the **RK-PS1** and tighten with two M3x5 screws (supplied with the unit) to the **RK-6PS**.

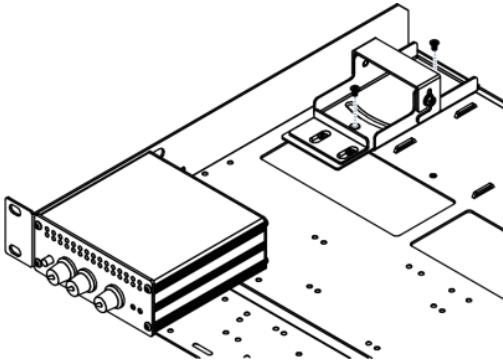


Figure 6: Attaching the RK-PS1

2. Insert the power supply and partially release the two adjusting plate screws.

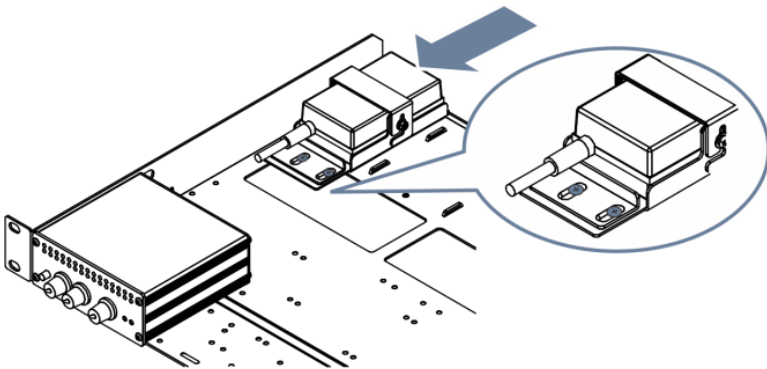


Figure 7: Inserting the Power Supply Unit

3. Set the adjusting plate so that it holds the power supply firmly and tighten the screws.

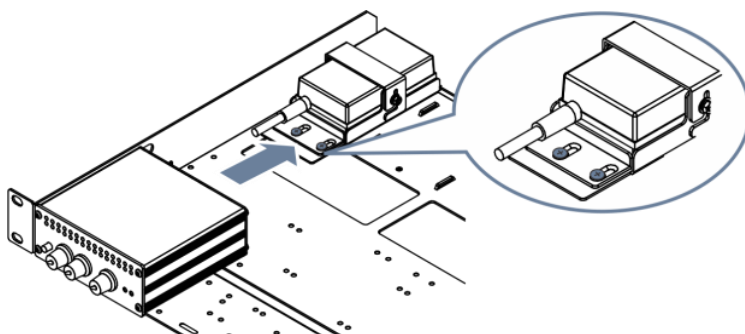


Figure 8: Setting the Adjustment Plate

4. Connect the power supply cable according to the specific instructions (if required) in the user manual of the Kramer product.

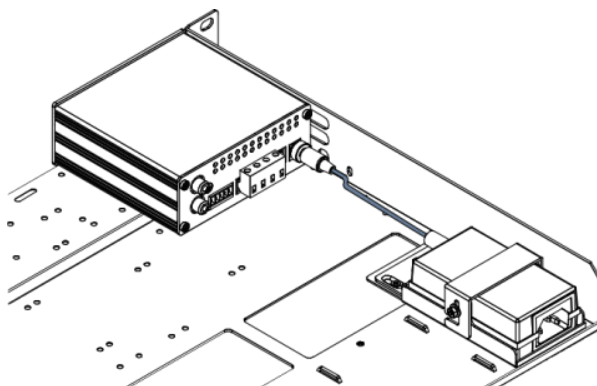


Figure 9: Connecting the power cable to the Device

5. In the same way attach additional **RK-PS1** adapters.

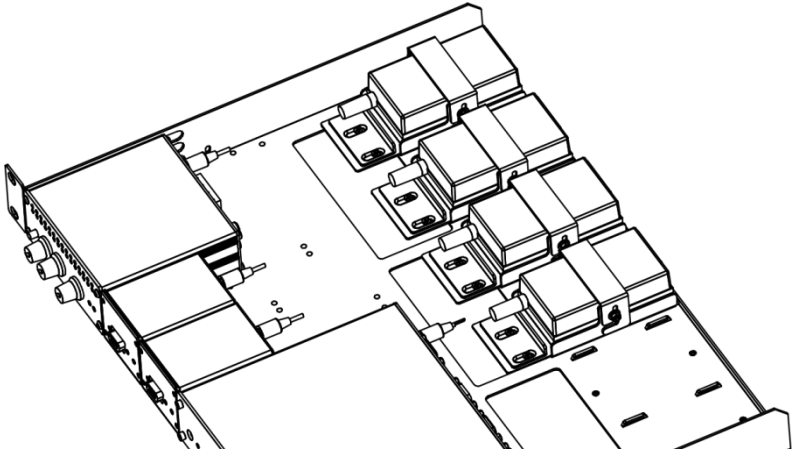


Figure 10: Connecting Additional RK-PS1 Adapters

6. Connect the power cables to each of the devices.

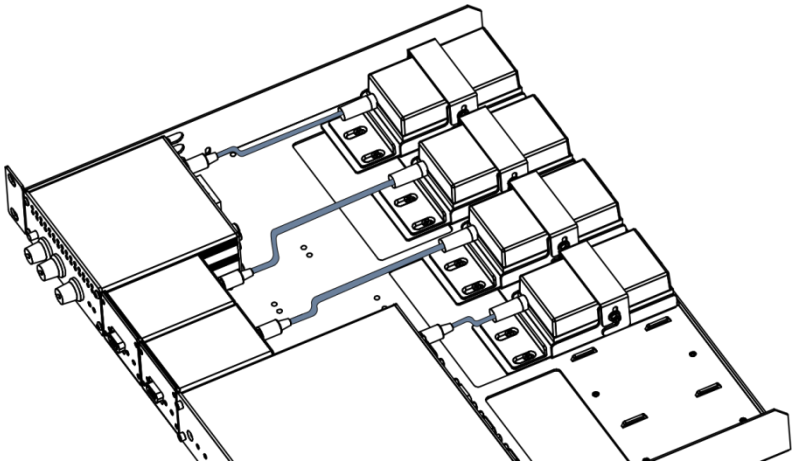


Figure 11: Connecting the Power Supply to the other Devices

7. Connect the C14 cable cord from each power supply to the mains electricity.

## 7 Technical Specifications

RK-6PS			
DIMENSIONS:	19" (W), 13.4" (D) 1U (H) rack mountable		
WEIGHT:	1.9kg (4.2lbs) approx.		
INCLUDED ACCESSORIES:	20 flat head M3x5 screws, 4 pan head M3x8 screws, 1 half-19" 1U blank panel (P/N 60-900013), 8 black cable ties		
OPTIONS:	PNL-BLANK/1/4U-19" (60-900014), PNL-BLANK/1/8U-19" (60-900015), PNL-BLANK/ SHORT6.5"1U With two 6.5" devices (60-900016), PNL-BLANK/LONG6.5"1U With one 6.5" device and a short blank (60-900017), RK-PS1 rack adapter for power supply, power supply units:		
	Power Supply for:	Power Specs	
		5V Power Supply Type      5V Power Supply Type	
	The USA:	<b>PS-504/US (60-0001895)</b> 5V/4A With a 75cm C14 power cord cable, 100-120V AC, 50/60Hz	<b>PS-1202/US (60-000195)</b> 12V/2A With a 75cm C14 power cord cable, 100-120V AC, 50/60Hz
	Europe:	<b>PS-504/EU (60-0001890)</b> 5V/4A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz	<b>PS-1202/EU (60-000190)</b> 12V/2A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz
	UK:	<b>PS-504/GB (60-0001893)</b> 5V/4A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz	<b>PS-1202/GB (60-000193)</b> 12V/2A With a 75cm C14 power cord cable, 100-240V AC, 50/60Hz
	General use (does not include the power cord):	<b>PS-1202 (60-0001899)</b> 5V/4A 100-240V AC, 50/60Hz	<b>PS-1202 (60-0001099)</b> 12V/2A 100-240V AC, 50/60Hz
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)		
STORAGE TEMPERATURE:	-40° to +70°C (-40° to 158°F)		
HUMIDITY:	10% to 90%, RHL non-condensing		
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.

### How Long Does this Coverage Last

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

### Who is Covered

Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

### 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.

### What Kramer Electronics will not do Under This Limited Warranty

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.

### How to Obtain a Remedy under this Limited Warranty

To obtain a remedy under this limited warranty, you must contact either the authorized Kramer Electronics reseller from whom you purchased this product or the Kramer Electronics office nearest you. For a list of authorized Kramer Electronics resellers and/or Kramer Electronics authorized service providers, please visit our web site at [www.kramerelectronics.com](http://www.kramerelectronics.com) or contact the Kramer Electronics office nearest you.

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.

### Limitation on Liability

THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

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### Other Conditions

This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to state.

This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not distributed by Kramer Electronics or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, please visit our Web site at [www.kramerelectronics.com](http://www.kramerelectronics.com) or contact a Kramer Electronics office from the list at the end of this document.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction.



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](http://www.kramerelectronics.com)

E-mail: [info@kramereel.com](mailto:info@kramereel.com)



The voltage rating on the mains output receptacle is in accordance with the country's mains voltage to which the device is connected.

Do not connect devices to this machine that do not operate in compliance with the country's mains voltage.



#### **SAFETY WARNING**

Disconnect the unit from the power supply before opening and servicing



P/N:

2900-300466



Rev:

1