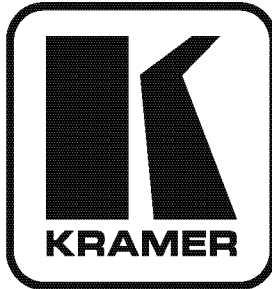


**Kramer Electronics, Ltd.**



# **USER MANUAL**

**Model:**

**VS-41USB**

*4x1 USB Switcher*

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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<sup>1</sup> that are clearly defined by function.

Congratulations on purchasing your Kramer DigiTOOLS **VS-41USB 4x1 USB Switcher**, which is ideal for using several hard disks with one computer.

The package includes the following items:

- **VS-41USB 4x1 USB Switcher**
- This user manual<sup>2</sup>

## 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 cables<sup>3</sup>

### 2.1 Quick Start

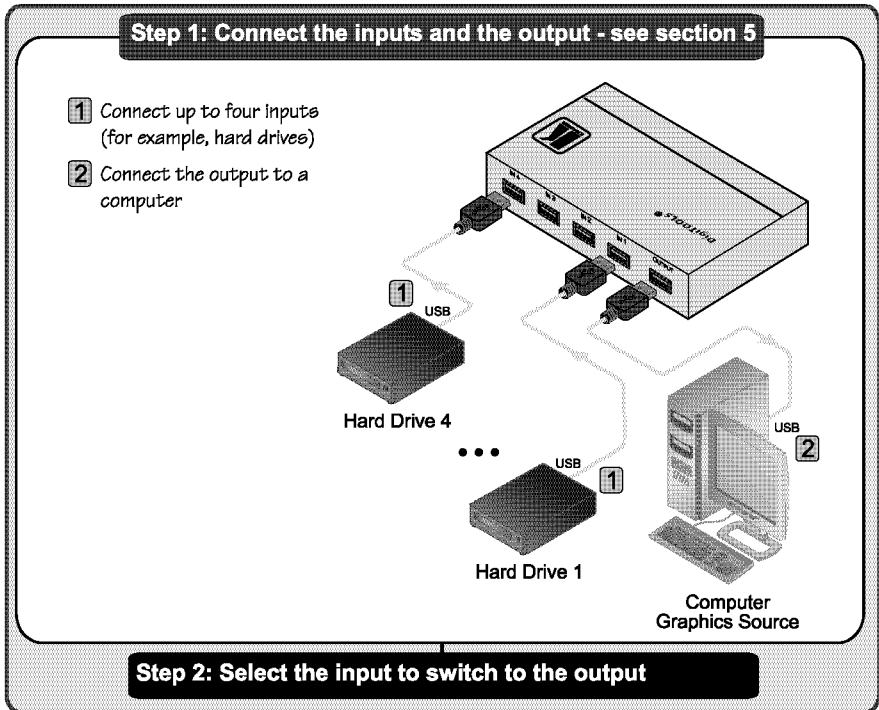
This quick start chart summarizes the basic setup and operation steps.

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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 Sealers; 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 <http://www.kramerelectronics.com>

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



### 3 Overview

The Kramer **VS-41USB** is a high quality 4x1 USB mechanical switcher. It accepts up to four USB inputs and switches the selected input to the output. Its unpowered design is advantageous for applications in which various regulatory compliances would otherwise be required.

Achieving the best performance means:

- Connecting only good quality connection cables<sup>1</sup>, 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 **VS-41USB** away from moisture, excessive sunlight and dust

<sup>1</sup> It is recommended to use USB 2.0 type cables for improved performance

## 4 Your VS-41USB 4x1 USB Switcher

Figure 1 and Table 1 define the **VS-41USB 4x1 USB Switcher**:

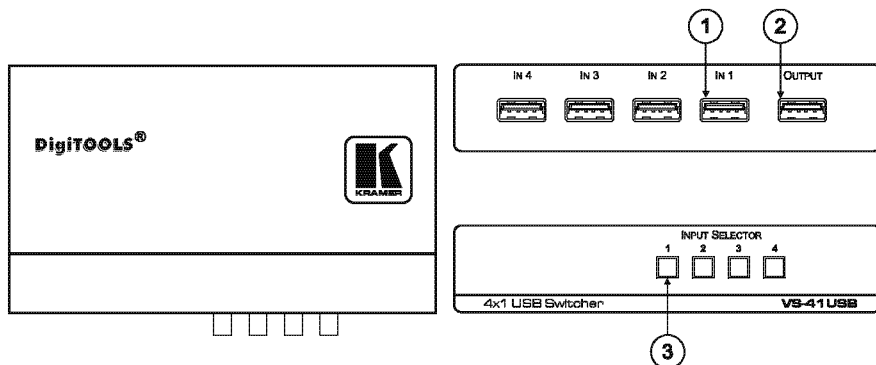


Figure 1: VS-41USB 4x1 USB Switcher

Table 1: VS-41USB 4x1 USB Switcher Features

#	Feature	Function
1	USB IN Port	Connect to the USB source (from 1 to 4)
2	USB OUTPUT Port	Connect to the USB acceptor
3	INPUT SELECTOR Buttons	Press to select the source

## 5 Connecting and Using the VS-41USB 4x1 USB Switcher

To connect<sup>1</sup> your **VS-41USB 4x1 USB Switcher**, as the example in [Figure 2](#) illustrates, do the following:

1. Connect USB sources<sup>2</sup> (for example, up to four hard drives<sup>3</sup>) to the IN USB connectors (from 1 to 4).
2. Connect the OUTPUT USB connector<sup>3</sup> to a PC.
3. Pushing an input selector button switches that USB source to the USB acceptor.

The **VS-41USB** can also be used "in the reversed direction", that is to switch a single source to one of four acceptors. To do this, connect the USB source to the OUTPUT connector; and connect the acceptors to the IN USB connectors.

<sup>1</sup> You do not need to connect all the inputs

<sup>2</sup> Alternatively, you can use memory sticks, cameras, and so on

<sup>3</sup> It is recommended to use USB 2.0 type cables for improved performance

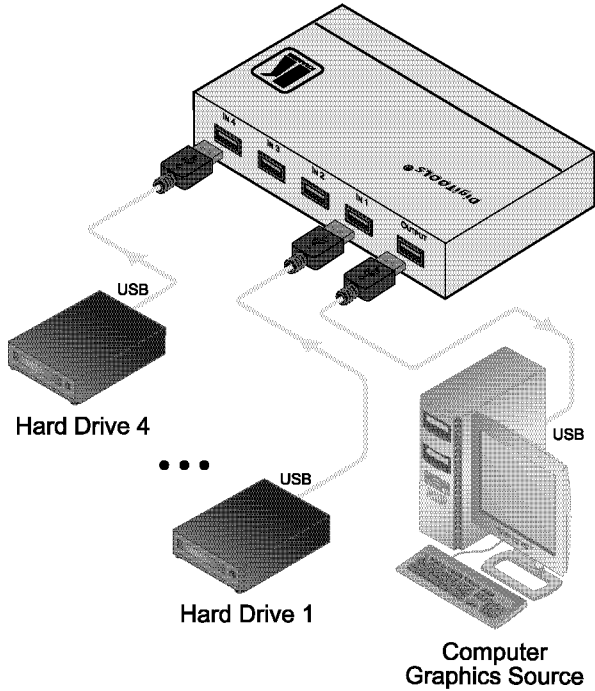


Figure 2: Connecting the VS-41USB 4x1 USB Switcher

## 6 Technical Specifications

Table 2 includes the technical specifications:

Table 2: Technical Specifications<sup>1</sup> of the VS-41USB 4x1 USB Switcher

INPUTS:	4 USB ports (USB2.0 or lower) on USB-A connectors
OUTPUT:	1 USB port (USB2.0 or lower) on a USB-A connector
DIMENSIONS:	12.1cm x 7.18cm x 2.42cm (4.76" x 2.83" x 0.95", W, D, H)
WEIGHT:	0.3kg (0.67lbs) approx.
ACCESSORIES:	Mounting bracket
OPTIONS:	RK-3T rack adapter

<sup>1</sup> 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](http://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 installation 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)





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For the latest information on our products and a list of Kramer distributors, visit our Web site: [www.kramerelectronics.com](http://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.



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**Kramer Electronics, Ltd.**

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