



# ユーザーマニュアル

機種名：

**VS-4E**

4x4 ビデオ オーディオ スイッチャー

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P/N: 2900-002003 Rev 2

日本語訳 (抜粋版) J1

## 1 VS-4E 4X4 ビデオ オーディオ スイッチャーについて

VS-4E 4X4 ビデオ オーディオ スイッチャーは、BNC コネクタ使用のコンポジットビデオ信号と RCA コネクタ使用のステレオ音声信号用の高品質なメカニカルスイッチャーです。

本機はコンパクトなデスクトップサイズで、映像と音声を独立に切替える用途向けに設計されています。

VS-4E は、1 対 1 のビデオスイッチングと 1 対 1 の音声スイッチングのみを提供するものです。ひとつの信号を同時に複数の出力に分配することは出来ません。

高品質のスイッチング部品の使用と注意深く設計された回路により、各入力信号間での卓越したアイソレーション性能を実現した VS-4E は、広帯域となる高解像度の映像信号用として最適です。

電源不要の設計は、各種規格との適合が要求される用途においても有利となります。

選択されていない入力信号は 75Ω の抵抗で終端されます。

## 2 機能説明

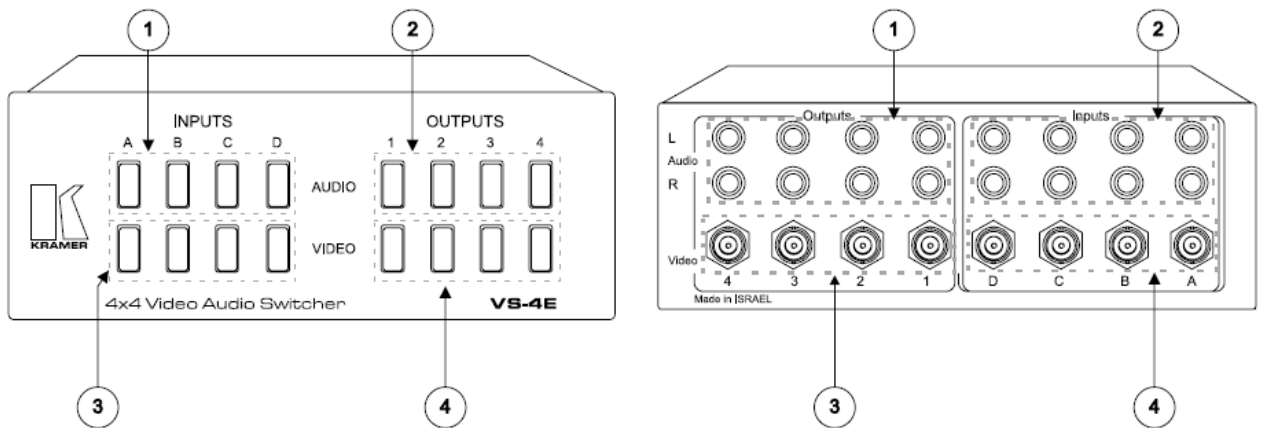


図 1 : VS-4E 4X4 ビデオ オーディオ スイッチャー

表 1 : VS-4E フロントパネル 名称と機能

No.	名称	機能
1	音声入力ボタン	音声ソースを選択します (A~D)
2	音声出力ボタン	音声出力機器を選択します (1~4)
3	ビデオ入力ボタン	ビデオソースを選択します (A~D)
4	ビデオ出力ボタン	ビデオ出力機器を選択します (1~4)

表 2 : VS-4E リアパネル 名称と機能

No.	名称	機能
1	音声出力 RCA コネクタ	左右の音声を出力機器に接続します (1~4)
2	音声入力 RCA コネクタ	左右の音声ソースに接続します (A~D)
3	ビデオ出力 BNC コネクタ	ビデオ出力機器に接続します (1~4)
4	ビデオ入力 BNC コネクタ	ビデオソースに接続します (A~D)

### 3 技術仕様

表 3： VS-4E 技術仕様

名称	仕様
入力	4 コンポジットビデオ、1Vpp/75Ω BNC コネクタ 4 ステレオ音声、最大 36Vpp RCA コネクタ
出力	4 コンポジットビデオ、1Vpp/75Ω BNC コネクタ 4 ステレオ音声、最大 36Vpp RCA コネクタ
スイッチング方式	メカニカル、Break-before-Make 型
クロストーク	-42dB (クロミナンス)、-60dB (Sync)
帯域幅	475MHz -3dB (ビデオ)、100KHz -3dB (音声)
外形寸法	18.8cm x 7cm x 7cm (幅 x 奥行 x 高さ)
質量	約 0.65Kg
オプション	RK-4E/S 19 インチラックアダプタ

## 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 three 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.
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.