MODELS:

4x1V and 4x1VB
4:1 Video Switchers
4x1V or 4x1VB Quick Start Guide

This page guides you through a basic installation and first-time use of your 4x1V or 4x1VB. For more detailed information, see the 4x1V or 4x1VB User Manual. You can download the latest manual at http://www.kamerelectronics.com.

Step 1: Check what’s in the box
- 4x1V or 4x1VB 4:1 Video Switcher
- 4 Rubber feet
- 1 Quick Start sheet
- 1 User Manual

Save the original box and packaging in case your device needs to be returned to the factory for service.

Step 2: Install the 4x1V or 4x1VB
Attach the rubber feet and place on a table or mount the machine in a rack (using an optional RK-3T rack mount).

Step 3: Connect the inputs and outputs

The rear panel of the 4x1V has RCA connectors (shown here). The 4x1VB has BNC connectors.

Always use Kramer high-performance cables for connecting AV equipment to the 4x1V or 4x1VB.

Step 4: Operate the 4x1V or 4x1VB
Press one of the switcher input selector buttons to select the input that switches to the output.
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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 that are clearly defined by function: 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 and GROUP 11: Sierra Products.

Congratulations on purchasing your Kramer 4x1V or 4x1VB 4:1 Video Switchers, which are ideal for the following typical applications:

- Presentation and display systems
- CCTV and home theater applications
- Rental and staging applications
- Also compatible with any other high frequency signal
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

2.1 Achieving the Best Performance

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)
- Position your Kramer 4x1V and 4x1VB away from moisture, excessive sunlight and dust
3 Overview

The KramerTOOLS 4x1V and 4x1VB are high-quality 4x1 mechanical switchers designed for composite video signals using RCA or BNC connectors. They accept up to four inputs and let you select any input to be routed to one output using buttons located on the front panel. High-quality switching components ensure minimal crosstalk and a high bandwidth of 400MHz (-3dB).

The entirely passive design of the 4x1V and 4x1VB eliminates the need for a power supply. Unselected inputs are automatically terminated into a 75Ω resistor.

3.1 Defining the 4x1V and 4x1VB 4:1 Video Switchers

This section defines the 4x1V and 4x1VB.
Figure 1: 4x1V and 4x1VB 4:1 Video Switchers

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OUTPUT Connector</td>
<td>Connect to the composite video acceptor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RCA connector (4x1V), BNC connector (4x1VB)</td>
</tr>
<tr>
<td>2</td>
<td>IN 1 to IN 4 Connectors</td>
<td>Connect to the composite video sources (1 to 4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RCA connectors (4x1V), BNC connectors (4x1VB)</td>
</tr>
<tr>
<td>3</td>
<td>INPUT SELECTOR Buttons</td>
<td>Buttons for choosing the input CV source</td>
</tr>
</tbody>
</table>
4 Connecting and Operating the 4x1V and 4x1VB

To connect the 4x1V and 4x1VB as illustrated in the example in Figure 2:

1. Connect up to four composite video sources to the IN 1 to IN 4 connectors (for example, composite video players). You do not have to connect all inputs.

2. Connect the OUTPUT connector to a composite video acceptor (for example, a composite video recorder).

Note: The 4x1V uses RCA connectors. The 4x1VB uses BNC connectors.

To operate the 4x1V and 4x1VB:

Press an INPUT SELECTOR button to switch the desired source to the output.
Figure 2: Connecting the 4x1V and 4x1VB 4:1 Video Switchers
## Technical Specifications

| INPUTS: | 4 video, 1Vpp/75Ω on RCA connectors (4x1V) or BNC connectors (4x1VB) |
| OUTPUT: | 1 composite or single component video, 1Vpp/75Ω on an RCA connector (4x1V) or BNC connector (4x1VB) |
| BANDWIDTH (-3dB): | 400MHz |
| SWITCHING SYSTEM: | Mechanical, break-before-make |
| OPERATING TEMPERATURE: | 0° to +55°C (32° to 131°F) |
| STORAGE TEMPERATURE: | -45° to +72°C (-49° to 162°F) |
| HUMIDITY: | 10% to 90%, RHL non-condensing |
| DIMENSIONS: | 12cm x 7.5cm x 2.5cm (4.7" x 2.9" x 1") |
| WEIGHT: | 0.28kg (0.62lbs) approx. (4x1V) 0.30kg (0.67lbs) approx. (4x1VB) |
| OPTIONS: | RK-3T 19” rack adapter |

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