

Specs

- Power: Typical draw 9VDC 25mA
- Operating frequency: 8Mhz
- Scan rate: 5 seconds
- Connectors: 4 RCA Female, 1 RCA Male, 1 RJ45 for Serial, 2.1mm x 5.5mm Coax Power Jack
- EMI: Verified FCC Part 15 Class B compliant. This product has not been certified for CE mark.
- Video: NTSC and PAL compatible
- Hardware platform: VS4T1
- Firmware: CamSwitcher



CamSwitcher
VS4T1

Note:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Safety

Installation of this product should be performed following proper industry standard wiring practices. Outdoor cabling should be properly grounded for lightning protection.

This product is intended for indoor use only. Keep this unit away from heat sources such as radiators and furnace vents and use it in a properly ventilated area. To prevent shock or fire hazard, do not expose this unit to rain or moisture or use near water. The power supply packaged with this unit is intended for US and Canadian power systems and should only be used with compatible systems. No user serviceable parts are contained inside the device. This device is not intended for use by children. This device does not contain any user serviceable parts.

This product is not intended for use with RF, VGA or amplified audio signals. If high voltage signals, such as amplified TV antennas or speaker outputs, are connected to the device damage or fire may occur. This device is intended only for composite video signal switching of NTSC signals. It is not certified for use in the European Union. Current inventory of this product is not completely certified for European RoHS standards. The internal electrical components of this device may contain lead. Newly manufactured units will be made RoHS compliant. This product is not intended for export outside the USA.

Troubleshooting

Like most video equipment, the CamSwitcher provides only a switching function for video. It does not modify or process signals. If you are running very long lines to remote cameras, the additional load of the CamSwitcher may reduce video quality slightly. The switch provides a small amplification of the video signal to compensate for long runs.

When switching between signals, some momentary video distortion is normal while the video display locks the video sync signal.

If the CamSwitcher does not respond to the serial port, verify the port number, data rate, stop bits and parity. The CamSwitcher supports ONLY 9600bps, N-8-1. If the device still does not respond, unplug the power and reconnect to restart. Close all applications that may be using the serial port. Try restarting your terminal software.

See our website for additional troubleshooting and support assistance.

Warranty and Use Limitations

This product is warranted for a period of 90 days from the date of purchase against defects. No warranty is provided against abuse, damage, improper wiring or use in a manner contrary to the guidelines and specifications listed in this document. Opening the product case voids the warranty. Electrical damage to the device introduced thru the external connections voids the warranty. The purchaser assumes all liability for custom cabling, cabling practices and video equipment installation. Tech World warranties only the equipment we sell, not a particular installation or application. Third party installers and equipment are the responsibility of the user.

This product is not intended for use in life or property protection security systems or for life sustaining or life critical medical applications. Use of the product for these applications is at your own risk and subject to the following terms:

You agree to indemnify, defend, and hold harmless Tech World, Inc. and any of its officers, directors, employees, agents, information providers, partners, advertisers, suppliers, and any of our successors, as-signs or licensees, together with any of their respective officers, directors, and employees, from and against any and all damages, losses, liabilities, suits, actions, demands, proceedings (whether legal or administrative), judgments, costs and expenses (including reasonable attorney's fees), arising out of any and all claims by you or a third party relating to your use of the product or application notes contained on the website, or any breach or violation of these Terms of Use or any other term or condition contained on the Tech World website. You agree that sole remedy for claims arising out of use of the product will be replacement of the product or refund of the purchase price at the sole discretion of Tech World, Inc.

If you do not agree to these terms, you may return the product to the point of purchase for a full refund within 10 days of purchase.

Command Reference

| | |
|---|---|
| 2 | Configure scanning for 2 cameras. Connect cameras to line 1-2 |
| 3 | Configure scanning for 3 cameras. Connect cameras to line 1-3 |
| 4 | Configure scanning for 4 cameras. Connect cameras to line 1-4 (default) |
| F | Load the factory defaults. Use the W command to save the settings. |
| I | Change the cycle interval in increments of 5 seconds. Press I again to select the cycle interval you wish. |
| R | Reset the device. Disconnecting power will also reset the device. |
| W | Write current settings to non-volatile memory used to initialize the CamSwitcher during startup. The CamSwitcher will boot up with your current settings. |
| ? | Help Menu |

When you change the number of cameras or the interval, a message will appear displaying the current settings. Once you have the setting as you like, use the "W" command to save them to the CamSwitcher memory. When you turn off the CamSwitcher and reconnect the power, it will start up with your preferred settings.

You can set the CamSwitcher back to factory defaults by using the commands "FW".

CamSwitcher Video Sequencer Quick Reference

Visit our website for extended documentation.

<http://www.camswitcher.com>

Package Contents

The CamSwitcher kit includes the following items:

- The CamSwitcher video switch
- DB9 Serial to RJ45 cable
- An AC power adaptor
- This document.

Requirements

The CamSwitcher connects to your computer as a serial device for configuration only. You need to have an available serial port with a DB9 connector. Refer to your computer manual for instructions on setting up your serial port. The CamSwitcher does not require any drivers and does not require a PC.

Connecting the CamSwitcher for configuration

- Plug the serial RJ45 cable into the CamSwitcher. Plug the other end into the serial port on your computer.
- If your computer does not have a serial port, a USB to serial adaptor is available separately. The CamSwitcher is compatible with all USB serial adaptors.
- Plug the AC Adaptor into a wall outlet.
- Plug the coaxial power plug on the AC wall adaptor into the CamSwitcher power socket. The green LED light on the CamSwitcher should turn on.

Connecting video to the CamSwitcher

You can connect video outputs of security cameras, DVD players, monitors, videocams, or any other video capable device to the CamSwitcher. The CamSwitcher supports composite video signals in NTSC or PAL formats.

The CamSwitcher is intended to switch up to four cameras or video sources to a single video output (monitor, capture card, etc.) Plug the black video out connector into your monitor or capture card. Plug your cameras or other video sources into the yellow input jacks.

Alternate application: A video source can be connected to the black connector of the CamSwitcher and switched to one of the four yellow connectors. This is a reversed application of the normal video switching application and may not work for all types of hardware.

Configuring the CamSwitcher

The CamSwitcher is configured using single letter commands via a serial port. You can configure the CamSwitcher using any communications terminal program such as Kermit or HyperTerminal. See the Command Reference Summary for commands you can send to the CamSwitcher.

Made in Taiwan, programmed and designed in the USA.
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