

# 2/ 4 Port Triple Monitor DVI USB KVM Switch with Audio and USB 2.0 Hub

SV231TDVIUA SV431TDVIUA



\*SV431TDVIUA shown

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- · 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.
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### Introduction

The 2/4-Port Triple Monitor DVI USB KVM Switch allows 2 or 4 PCs, each with 3 DVI video outputs, to share monitors, 1 microphone and set of speakers, 1 keyboard and 1 mouse as well as an additional USB 2.0 peripheral such as an external hard drive. thumb drive, printer, or webcam.

The Triple DVI KVM switch allows you to switch back and forth between multi DVI PCs at the touch of a button, while maintaining professional-level video quality on all monitors at resolutions up to 1920x1200. The triple DVI switch also features an integrated USB hub port that allows USB 2.0 peripherals to be shared between attached systems - eliminating duplicate peripheral costs, and offering the convenience of sharing stored data between PCs.

### **Packaging Contents**

- 1 x Triple Display KVM Switch
- 4 x Rubber Foot Pads
- 1 x Universal Power Adapter (NA/ UK/ EU)
- 1 x Instruction Manual

### **System Requirements**

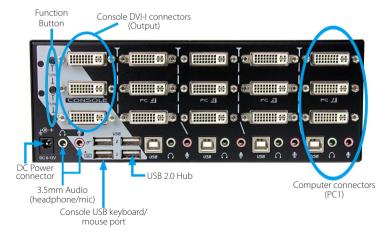
- Up to three DVI enabled display devices (i.e. monitor, projector, TV, etc.)
- DVI male/ male cable for each display
- A DVI output for each DVI display device for each computer
- DVI/ USB KVM cable for each computer
- Additional DVI cable(s) for each additional display beyond the first
- USB enabled computer system with available USB port
- Standard 104-key wired USB keyboard
- Standard 3-button wired USB mouse



### Front View \*SV431TDVIUA shown



### **Rear View** \*SV431TDVIUA shown



### Installation

**NOTE:** Prior to the installation, please power off all devices that will be connected to this system.

- · Ensure that all devices you will connect are properly grounded.
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.
- If you experience any problems using a USB KVM switch, the following BIOS setup changes may be necessary for PC users and not necessary for Mac users:
  - Set 'HALT ON FRROR' to 'ALL BUT KEYBOARD'.
  - Under 'PNP AND PCI SETUP', set the option 'PNP OS INSTALLED' to YES and set 'USB IRQ' to ENABLED.
- Different systems may use different naming, so contact your system manufacturer for further assistance with these settings.

### **Hardware Installation**

- Connect up to three monitor(s) into the Console's DVI connectors; plug a USB keyboard and a USB mouse into the dedicated USB keyboard and mouse ports on the KVM switch. If using audio, also connect speakers with 3.5mm mini-jack plugs.
- 2. Use male-to-male DVI video cable(s) to connect the DVI connector(s) on the computer's video card, to the DVI ports for one of the KVM's PC ports (i.e. PC1).

**NOTE:** Do not mix different types of DVI cables (DVI-I, DVI-D) on the same KVM.

 Use a USB type A-B Cable to connect the KVM's USB port (type B, square connector) for the PC port used in Step 2, and the USB port on the computer (type A, flat connector). If using audio, connect 3.5mm mini-jack cables from the PC port to the sound card

**NOTE:** DVI + USB + Audio KVM combo cables are also available which can be used in place of separate individual cables (e.g. StarTech.com ID: **DVI4N1USB6**).

- 4. Repeat Steps 2 and 3 for each PC port on the KVM switch, or each computer you wish to use on the KVM
- 5. **OPTIONAL:** Connect any other USB peripheral you wish to share between the connected computers/devices to the extra USB Hub port on the Console side.
- 6. Connect the external power adapter from a wall outlet to the power connector on the rear panel of the KVM switch.
- 7. Power up the first computer/device and wait for it to fully boot and test keyboard/mouse functionality.



- 8. Once operation has been successfully confirmed, switch to the next port and power up that computer/device and confirm.
- 9. Once completed for all computers/devices connected to the KVM switch, you should be able to switch between ports freely.

### **Driver Installation**

No driver installation is required for the KVM switch, as the keyboard/mouse use USB drivers that are already installed on any operating system that fully supports USB.

## Operation

### **Front Panel**

#### Port Selection/Link LED

The LED turns green when the connected computer is powered-on. The corresponding LED will also illuminate red when that PC port is currently selected.

#### Port Selection Button

**For 2 Port model**, each push of the Selection Button on the front of the KVM switch will immediately switch between the two ports on the KVM switch. **For 4 Port model**, each push of the Selection Button on the front of the KVM switch will immediately switch to the selected computer.

#### Auto Scan

The KVM automatically scans through the powered-on computers in sequence on a fixed time interval (see Scan Time below). To activate Auto Scan, press down front panel push buttons "3" and "4" simultaneously. The port LED flashes during Auto Scan. Auto Scan is effective for powered-on computers only. To exit the Auto Scan mode, just tap any one of the push buttons. (4 port model only)

**NOTE:** When Auto Scan detects any keyboard activity, it suspends the scanning until the activity stops; it then resumes with the next computer in sequence. The length of the Auto Scan interval (Scan Rate) is adjustable, see below.

#### Scan Time

Four options are available for users to set the Scan Time duration, which includes 3, 8, 15 and 30 seconds.

To change the Scan Time interval, press both front panel buttons "1" and "2" simultaneously. The unit beeps 1, 2, 3 or 4 times for Scan Time of 3, 8, 15 or 30 seconds respectively. (4 port model only)

**NOTE:** Scan Time is automatically set to the default of 3 seconds when the units loses power.



### **Hotkey Control**

A Hotkey command is a short keyboard sequence for selecting a computer, activating computer scan, etc. A hotkey sequence starts with two left <CTRL> keystrokes (successively within 0.2 seconds) followed by one or two more keystrokes. A built-in tone generator creates a high-pitch beep for correct hotkey command; otherwise, one low-pitch beep is generated for errors and the bad key sequence will not be forwarded to the selected computer.

**NOTE:** Press and hold Left <SHIFT> and press <NumLock> twice, then release <SHIFT> followed by pressing left <CTRL> once, which will enable / disable the hotkey feature.

### To select a computer:

Left <CTRL> + Left <CTRL> + <1>
(Example: Selects the computer at port 1.)

Left <CTRL> + Left <CTRL> + <2>

(Example: Selects the computer at port 2.)

**NOTE:** Do not use the keypad on the right-side of the keyboard.

#### Auto Scan

The KVM automatically scans through the powered-on computers in sequence on a fixed time interval (see Scan Time below).

#### To start Auto Scan:

To abort the Auto Scan mode, press the left <CTRL> key twice. When Auto Scan detects any keyboard or mouse activity, it suspends the scanning till the activity stops; it then resumes with the next computer in sequence. The length of the Auto Scan interval (Scan Time) is adjustable, see below.

Manual Scan allows users to manually switch back and forth between powered-on computers.

To select the previous or the next computer, press <UP> or <DOWN> arrow keys. To abort the Manual Scan, press any other key.



#### Scan Time

Four options are available for users to set the Scan Time duration, it Includes 3, 8, 15 and 30 seconds.

Note: Scan Time is set to 3 seconds by default.

To adjust Scan Time, set the scan time of duration before switching to the next computer:

The KVM Switch generates 1 to 4 beeps indicating a scan time duration for 3, 8, 15 or 30 seconds respectively.

### Adjust Video Signal (for 4 port model only)

The video signal can be optimized to the length or quality of your DVI cable. Only perform this operation if you are experiencing video quality issues.

- Step 1. Press the "FUNC" button 3 times. The "POWER" LED will start flashing.
- Step 2. The settings are adjusted by pressing the numbered buttons on the front of the KVM.
  - A) Button "1" Adjusts the EQUALIZATION of the video source. 1 Beep is normal, 2 beeps is enhanced.
  - B) Button "3" Adjusts the output CURRENT of the video source. 1 Beep is normal, 2 beeps is enhanced.
  - C) Button "4" Adjusts the AMPLIFICATION of the video source. 1 Beep is normal,
  - 2 beeps is low, 3 beeps is medium, 4 beeps is high.

Step 3. Press the same "FUNC" button from Step 1 to exit.



#### **Audio Lock**

There are two options for Audio Lock: ON and OFF. When ON, audio selection follows computer selection. When OFF, audio selection stops following computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers.

The KVM switch beeps once or twice corresponding to ON and OFF respectively.

To change which computer port the audio stays on to the currently selected port, press the following hotkey:

#### **USB-Port Rule**

There are two settings for USB-Port Rule: ON or OFF. When set to 'ON', the USB Hub ports follows computer selection. When set to 'OFF', the USB Hub ports stays on the currently selected PC port.

#### For 2 Port Model

Press the hotkey below to turn ON/OFF the USB-Port Rule on both USB Hub ports:

#### For 4 Port Model

**USB1:** Press the hotkey below to turn ON/OFF the USB-Port Rule on both USB Hub ports:

**USB2:** Press the hotkey below to turn ON/OFF the USB-Port Rule on both USB Hub ports:

To change the PC port that the USB hub stays on to the currently selected PC port, press the following hotkey: (applicable for both 2 Port and 4 Port models)

**NOTE:** Please make sure that installation of the USB device has been accomplished before switching to the next computer.



### **Alternative Hotkey Commands**

In addition to the Left <CTRL> + Left <CTRL> hotkeys, there are two alternative hotkey sequences available.

 For the following operations, users may press <ScrollLock> twice instead of pressing left <CTRL> twice.

To select a computer:

<ScrollLock> + <ScrollLock> + <1>
(Example: Select the computer at port 1.)

<ScrollLock> + <ScrollLock> + <2>
(Example: Select the computer at port 2.)

**NOTE:** Do not use the keypad at the right of the keyboard.

 For those keyboards that do not have or support <ScrollLock>, please press and HOLD the Left <SHIFT> and press <NumLock> twice instead of pressing Left <CTRL> twice.

To select a computer:

Hold Left <SHIFT> + Press <NumLock> + Press <NumLock> then release <SHIFT> + Press <1> (Example: Select the computer at port 1.)

Hold Left <SHIFT> + Press <NumLock> + Press <NumLock> then release <SHIFT> + Press <2> (Example: Select the computer at port 2.)

**NOTE:** Do not use the keypad at the right of the keyboard.



### **Change Leading Hotkey**

The default leading hotkey sequence involves pressing the left <CTRL> twice in succession (e.g. left <CTRL> + left <CTRL>). This can be changed to the right <CTRL> key instead, to avoid accidental activation due to using the left <CTRL> key for functions such as Copy/Paste.

To change the leading hotkey sequence to Right <CTRL>:

Left <CTRL> + Left <CTRL> + hold <ALT> + press Right <CTRL>

All hotkey commands that previously required pressing the Left <CTRL> will be switched to requiring the right <CTRL> instead.

To change the leading hotkey sequence back to Left <CTRL>:

Right <CTRL> + Right <CTRL> + hold <ALT> + press Left <CTRL>



# **Specifications**

	SV231TDVIUA	SV431TDVIUA	
Number of Ports	2	4	
	3 x 19-pin DVI-I female		
Console Connectors	4 x USB type A female		
	2 x 3.5mm Audio female		
Computer Connectors (per port)	3 x 19-pin DVI-I female		
	1 x USB type B female		
	2 x 3.5mm Audio female		
LEDs	2 x Computer Link/ Selection	1 x Power	
		4 x Computer Link/ Selection	
Switching Modes	Push button, Hot-key		
Maximum Video Resolution	1920x1200		
DDC2B Support	Yes		
Audio Support	Yes (headphone/ mic)		
On Screen Display	No		
Cascadable	No		
Power Adapter	12V DC, 1500mA, center positive, type M plug		
Enclosure Material	Metal		
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)		
Humidity	0% ~ 80% RH		
Dimensions (WxDxH)	159.0mm x 100.0mm x 74.0mm	219.0mm x 130.0mm x 81.0mm	
Weight	900g	1500g	



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