

## 2 Port USB HDMI KVM Switch with Audio and USB 2.0 Hub

SV231HDMIUA



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# Introduction

The SV231HDMIUA 2-port USB HDMI® KVM Switch lets you control two USB-enabled multimedia computers or devices with HDMI video interfaces, using a single peripheral set/console (USB keyboard, mouse, monitor, speakers and microphone).

A highly versatile KVM solution, the USB HDMI KVM Switch features an integrated 2-port USB 2.0 hub that lets selected computers access shared high speed USB devices, eliminating the cost of duplicate USB peripheral purchases.

Ensuring high quality video capability, the HDMI KVM switch supports HD resolutions of up to 1920 x 1200. Offering genuine digital signal transmission over the cable, this switch can be used to share one HD panel between multiple HDMI sources such as Blu-Ray players, Video Game consoles and HD media centers.

The switch also supports audio and microphone switching functions and allows you to select connected computers, USB device hub ports and audio/mic channels either simultaneously or independently using either front-panel push-buttons or keyboard hotkeys.

## Packaging Contents

- 1x 2 Port HDMI KVM
- 1x Package of Rubber feet
- 1x Power Adapter
- 1x User Manual

## System Requirements

- HDMI and USB enabled computer systems
- HDMI enabled display device (e.g. monitor, projector, TV, etc.)
- Standard 104-key wired USB keyboard
- Standard 3-button wired USB mouse

# 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.

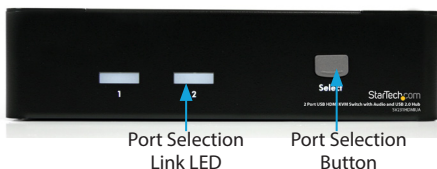
Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

If you experience any problems using a USB KVM switch, the following BIOS setup changes may be necessary for PC users (not necessary for Mac users):

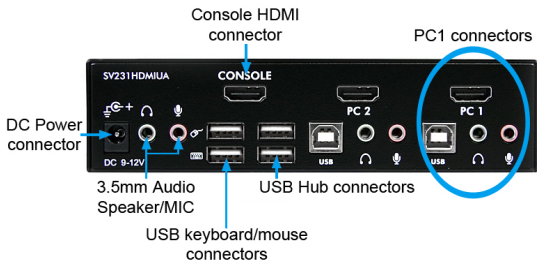
- Set HALT ON ERROR to ALL BUT KEYBOARD.
- In PNP AND PCI SETUP, set PNP OS INSTALLED to YES and set USB IRQ to ENABLED.

Different systems may use different naming, so contact your system manufacturer for further assistance with these settings.

## Front View



## Rear View



# Hardware Installation



1. Plug a monitor/display into the Console HDMI connector; plug a USB keyboard and a USB mouse into the dedicated USB keyboard and mouse ports on the KVM switch.
2. Use a male-to-male HDMI video cable to connect the HDMI connector on the computer's/devices' video card, to one of the KVM's PC ports (ie. PC1)
3. 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/device (type A, flat connector).
4. Use a male-to-male 3.5mm mini-jack audio cable to connect the speaker and microphone connectors on the computer/device to the KVM's speaker/mic ports for the PC port used in Step 2.
5. Repeat for Steps 2 thru 4 for each PC port on the KVM switch, or each computer/device you wish to use on the KVM.
6. OPTIONAL: Connect any other USB peripherals you wish to share between the connected computers/devices to the extra USB Hub ports on the Console side.
7. Connect the external power adapter from a wall outlet to the power connector on the rear panel of the KVM switch.
8. Power up the first computer/device and wait for it to fully boot and test keyboard/mouse functionality.
9. Once operation has been successfully confirmed, switch to the next port and power up that computer/device and confirm.
10. 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 and mouse use generic USB keyboard/mouse 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

Pushing the front panel "Select" button toggles between the PC ports on the KVM switch.

# 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:

**Left <CTRL> + Left <CTRL> + <F1>**

To abort the Auto Scan mode, press the left <CTRL> key twice.

**NOTE:** 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 Rate) is adjustable, see below.



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

**Left <CTRL> + Left <CTRL> + <F2>**

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 Rate, set the scan time of duration before switching to the next computer:

**Left <CTRL> + Left <CTRL> + <F3>**

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

### Audio Lock

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

**Left <CTRL> + Left <CTRL> + <F5>**

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

To change which port the audio is following to the currently selected port, press the following hotkey:

**Left <CTRL> + Left <CTRL> + <A>**

## Alternative Hotkey Commands

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

1. 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.

2. 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

<b>Number of Ports</b>	2
<b>Computer Connectors (per port)</b>	1 x HDMI 1 x USB type B 2 x 3.5mm mini-jack
<b>Console Connectors</b>	1 x HDMI 4 x USB type A 2 x 3.5mm mini-jack
<b>Maximum Video Resolution</b>	1920x1200
<b>DDC2B Support</b>	Yes
<b>Audio Support</b>	Yes
<b>On Screen Display</b>	No
<b>Cascadable</b>	No
<b>Switching Modes</b>	Front Panel Button, Hot-Keys
<b>Power Adapter</b>	9-12VDC, 1.5A, type N plug, center positive
<b>Enclosure Material</b>	Metal
<b>Dimensions (WxHxD)</b>	160.8mm x 40.0mm x 100.0mm
<b>Weight</b>	800g

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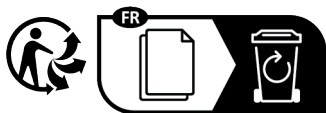
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