



Keyboard/Mouse/Monitor
Sharing Switch



User's Manual

SV231

StarTech.com



REGISTERED
ISO 9001

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Please read this manual thoroughly and follow the **Installation** procedures to prevent damage to the StarView or any connecting devices.

Introduction

Overview

The StarView SV231 is a computer switch that allows access to two IBM compatible computers from one keyboard, mouse and monitor. Switching between computers is as easy as pressing the push button or entering hot-key commands from your keyboard. There is no interface card and software to install and the StarView is independent of the computer operating system. The space-saving design enables you to connect all the cables to the back of the SV231.

Automatic Mouse Conversion

The StarView Switch enables you to connect computers with PS/2 or serial mouse ports (using adapters supplied with each SV231), and control both computers from one PS/2 mouse. The StarView automatically identifies the mouse and switches to proper mouse protocol.

Features

- Supports both PS/2 and serial mouse
- Cascade configuration expands system capability
- Auto scan automatically selects computers sequentially
- Supports Microsoft IntelliMouse (Pro), IntelliTrackball
- Hot-key functions allow easy computer access
- Built-in buzzer for hot-key command confirmation

- Keyboard states automatically saved and restored when switching computers
- Operating system independent, transparent to all applications
- True plug and play system configuration
- Keyboard and mouse can be hot plugged at any time
- High VGA resolution 1600x1200
- DDC2B compatible
- Power-free operation

Installation

Device Connection

Turn your computers off. Connect a PS/2 keyboard to the mini-DIN-6 port with a **KEYBOARD** icon and a PS/2 mouse to the mini-DIN-6 port **MOUSE** icon . Then connect your VGA monitor cable directly to the HD-DB-15 port of **CONSOLE** as shown in figure 1.

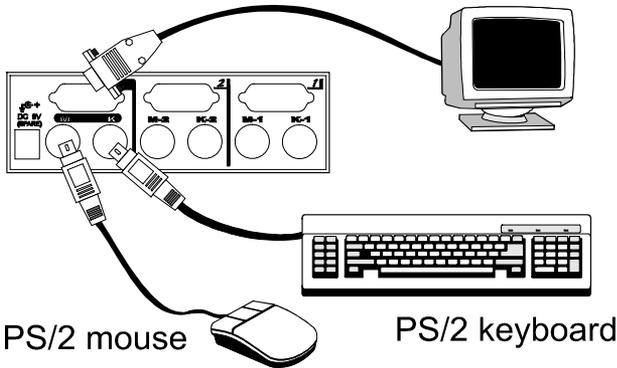


Figure 1: **CONSOLE** Connection

The monitor connected to the HD-DB-15 VGA port of the **CONSOLE** must be capable of synchronizing with the computer's video signal. If you are uncertain about the monitor type, please consult the monitor user's manual. *The StarView consumes negligible power and is designed to run reliably without an external power adapter.*

Computers Connection

Now you have two computers to connect to the StarView. Use a male-to-male Mini-DIN-6 cable to connect from the first PC's keyboard port to the corresponding **KEYBOARD** port; and, use another male-to-male Mini-DIN-6 cable from the PC's mouse port to the **MOUSE** port. Connect your computer's VGA port to the HD-DB-15 port of the StarView as shown in figure 2

using a VGA male-to-female cable. Follow the same procedures for the second computer using the **KEYBOARD** and **MOUSE** port.

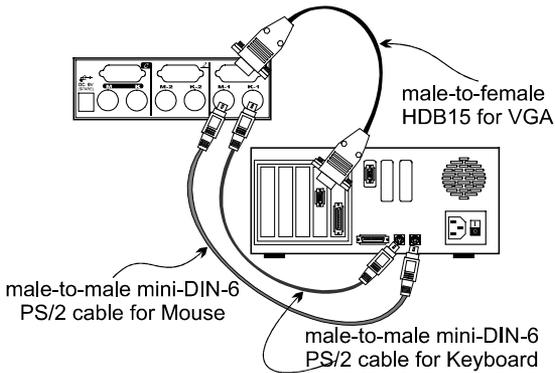


Figure 2: COMPUTER Connection

If your computer incorporates a serial mouse, a mouse adapter should be connected to the computer's mouse port as shown in figure 3.

(Note: use only the mouse adapter supplied with the SV231)

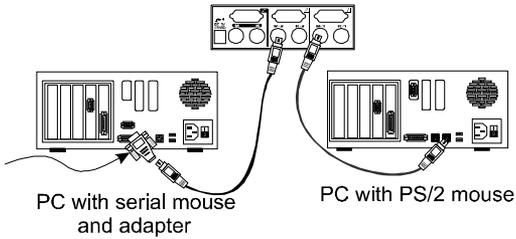


Figure 3: Adapter and serial mouse connection

NOTE: 1. *The StarView SV231's automatic mouse conversion system allows you to connect computers using serial mice.*

2. *The mouse adapter can only be used on the **PC** side and will not work on the **CONSOLE** side.*

3. *If your PC uses an AT style keyboard, you will need an "AT-to-PS/2 keyboard adapter" at the PC side.*

Initial Power-up

Make sure all computers and the StarView SV231s are powered down during installation. After connection, power up the computers. The StarView can be powered from the computers. This procedure ensures the StarView receive computer settings correctly when computer boots.

NOTE: You may hot plug any additional powered-down computer to the StarView SV231 at any time after the initial power up.

Operations

Front Panel operation

You may switch to a different computer by pressing the front panel push-button directly or by issuing hot-key commands. The front-panel red indicator changes to reflect the computer port selected. The indicator flashes while in either Auto Scan or Manual Scan mode.

Hot-key commands

Hot-key command is a short keyboard sequence to select a computer or to activate computer scan. StarView interprets keystrokes for hot-keys all the time. A hot-key sequence starts with two left **Ctrl** keystrokes followed by one or two more keystrokes. A built-in buzzer generates a high-pitch beep for correct hot-key command; otherwise, one low-pitch beep for error is

generated and the bad key sequence will not be forwarded to the selected computer.

- To select a computer: left **Ctrl** + left **Ctrl** + **1** Selects the computer at port 1. Left **Ctrl** + left **Ctrl** + **2** Selects the computer at port 2.

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

- To start *Auto Scan*, automatically scan powered-on computers one by one at a fixed interval: left **Ctrl** + left **Ctrl** + **F 1**.
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 until 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* enables you to manually switch back and forth between powered-on computers. left **Ctrl** + left **Ctrl** + **F 2**.
Press **↑** or **↓** to select the previous or the next computer in sequence. And, press any other key to abort the *Manual Scan*.
- To adjust *Scan Rate* which sets the duration before switching to the next computer in *Auto Scan*: left **Ctrl** + left **Ctrl** + **F 3**.
The StarView generates 1 to 4 beeps indicating scan interval of **3**, **8**, **15** and **30** seconds respectively.

- To adjust keyboard typematic rate (characters/sec), this setting over-rides that of BIOS and any operating system: left **Ctrl** + left **Ctrl** + **F4**.
The StarView generates 1 to 4 beeps corresponding to **10**, **15**, **20** and **30** characters/sec respectively.

Appendices

Specifications

SV231

No. of computers supported	2
Cascade control PC number	Up to 4*
Front panel button control	1
Hot plug-and-play	Yes
Hot-key control	Yes
Automatic scan interval	3, 8, 15, 30 seconds
Cable Length (Max)	30M(100ft) at CONSOLE 30M(100ft) at PC
VGA	1600 x 1200, DDC2B
Computer keyboard connector	PS/2
mouse	PS/2, serial (with adapter)
monitor	HD-DB-15 male
Console keyboard connector	PS/2
mouse	PS/2
monitor	HD-DB-15 female
Weight	420g
H x W x D (mm)	40x124x70
(in.)	1.6x4.9x2.7
size	Micro

Power supply

Optional (DC 9V,500mA)

Troubleshooting

Ensure that all cables are well seated. Check that keyboard/mouse cables are not swapped. Label and bundle the cables for each computer to avoid confusion when connected to the StarView.

Symptom	Causes	Solutions
Keyboard or mouse does not work	Improper power-up sequence. Keyboard or mouse not properly initialized.	Press and hold down the push button for 3 seconds, the StarView will re-initialize the keyboard and mouse. If problem persists, unplug the keyboard or mouse, wait for few seconds then plug it back.
Keyboard error on boot	Loose keyboard connection.	Make sure keyboard cables are well seated.
Keyboard strokes shifted	The computer was in shifted state when last switched	Press both SHIFT keys.
Auto Scan does not switch PC automatically and StarView beeps.	All PCs are off or only one PC is turned on. Scan mode works for power-on computers only.	Turn computers on. Press left Ctrl key twice to abort Auto Scan mode.

The ↑ and ↓ keys do not work in Manual Scan	All PCs are off or only one PC is turned on. Scan mode works for power-on computers only.	Turn computers on. Press any other key to abort Manual Scan mode.
The StarView fails to function occasionally.	Computers do not supply enough power.	Add a power adapter with minimum of DC 9V 500mA output rating to the SPARE power jack.
Computer can not use serial mouse	Loose mouse adapter Incorrect mouse adapter.	Secure the mouse adapter to computer's COM port. Use only the mouse adapter comes with the SV231.
Not functional in cascade configuration.	In master/slave configuration, the master unit must have equal or more PC ports than that of slaves. If SV231 is a slave, its master can be SV231, SV431, SV831 or SV1631.	SV231 can be a slave of SV231, SV431, SV831 and SV1631. If SV231 is a master, then SV431, SV831 nor SV1631 can be its slave.

Other StarView Switches

Other high-performance StarView KVM switches

	No OSD	OSD model	2 Console – OSD Model
2-port	SV231		
4-port	SV431	SV431D	
8-port	SV831	SV831D	SV832D
16-port		SV1631D	SV1632D

-OSD: advanced On-Screen Display interface enabling you to assign PC names, access PCs by the names. Other features include programmable scan pattern, password security, etc.

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