

Quick Installation Guide

freedom⁹TM

KVM-02 Series

2-port KVM Switch



Thank you for purchasing the KVM-02 series switch. The KVM-02 series is designed to save space, and reduce cables and peripherals, thus saving you money, time, equipment and power.

Controlling 2 PCs/Macs/Sun Microsystems from a single keyboard, mouse, monitor and audio device has never been more convenient. The keyboard and mouse emulation allows you to simultaneously boot up multiple computers. In addition to all the convenient standard features like attached cables, the KVM-02 series also includes *Hot-key* and *Auto-scan* control keyboard commands for greater user control.

Features

- Compact size, elegant design, portable, and no extra cables required
- Supports individual USB mouse, USB Keyboard or USB keyboard and mouse combination on console port (**KVM-02U only**)
- Built-in microphone and speaker jacks for multimedia applications
- Supports Windows 98/98SE/2000/ME/XP/NT, Novell Netware/Unix, Linux, Sun Solaris or later versions
- Supports Mac O.S 8.6 or later versions (provided connection is made on USB Mac systems or USB Sun Microsystems)
- Hot Plug - add or remove connected computers for maintenance without powering down the KVM switch or computers
- High performance video resolution - up to 2048X1536, 400MHz bandwidth max.
- Auto Scan Mode for monitoring computers
- Keyboard and Mouse status restore when switching computers
- LED indicators for easy status monitoring

Package Contents:

The KVM-02 series comes in 2 models:

KVM-02P

- ◆ 2-port KVM switch with two 6' connecting cables (PS/2 & VGA & PS/2 & Audio & Microphone)
- ◆ Console Connections (PS/2 & VGA & PS/2 & Audio & Microphone)
- ◆ Quick Installation Guide



KVM-02U

- ◆ 2-port KVM switch with two 6' connecting cables (USB & VGA & Speaker & Microphone)
- ◆ Console Connections (USB & VGA & Speaker & Microphone)
- ◆ Quick Installation Guide



Technical Specifications

Function		KVM-02P	KVM-02U
MAX Computer Connections		2	2
LED		2	2
Computer Port	K/B	PS/2	USB
	Video	VGA	VGA
	Mouse	PS/2	USB
Console Port	K/B	PS/2	USB
	Video	VGA	VGA
	Mouse	PS/2	USB
Computer selection	Hot-Key*	Keyboard Command	Keyboard Command
Audio port		Yes	Yes
AutoScan Intervals		8sec.	5 sec.
VGA Resolution		2048x1536	2048x1536
Bandwidth		400MHz	400MHz
Power Type		Bus Power	Bus Power
Housing		Plastic	Plastic
3-to3 KVM / Console Cable		180 cm (Built-in)	180 cm (Built-in)
Dimension (L*W*H) (w/o Cable)		3.4*2.8*1.1 inch (87*74*28 mm)	3.4*2.8*1.1 inch (87*74*28 mm)

*See page 7 for Keyboard Hot Key Commands

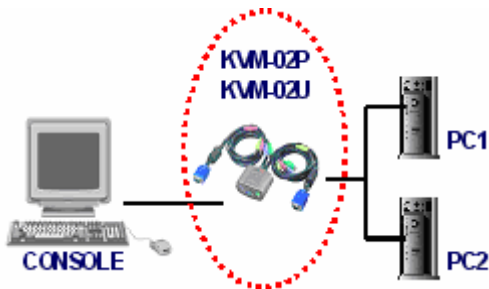
Hardware Installation

Before starting with the installation process, please TURN OFF all connected peripherals and computers.

Windows XP/ME/2000/NT/Server 2003 users:

Remark: Windows NT4.0 does not support USB

1. Connect the keyboard, VGA, mouse, and audio cables from the KVM switch into the computer ports.
2. Connect the keyboard, VGA monitor, mouse and audio devices into the console port of KVM switch
3. Turn on the computers. Once the computers have finished the boot-up process, you may begin using the KVM switch.



NOTE

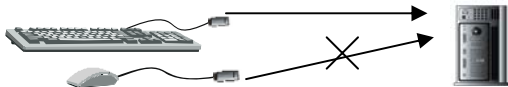
Do not switch the computer port and/or run the hot key command(s) while your computer is booting-up.

Windows 98/98SE users: (KVM-02U)

When you use Windows 98/98SE with the USB KVM Switch (**KVM-02U**), please use the following set up procedures:

1st Step:

1. Connect KVM USB type A cable to PC.
2. Connect KVM HDDDB15 pin Male video cable to PC.
3. Make sure VGA monitor's cable is connected to console VGA port.
4. Connect PS/2 or USB keyboard to PC PS/2 keyboard or USB port directly. Please do not connect PS/2 mouse or USB mouse to your PC.



5. Start up PC. The PC will be unable to find the mouse; the Windows O.S. will show the following message or similar :

- Windows did not detect a mouse attached to the computer. You can safely attach a serial mouse now. To attach a mouse to a PS/2 mouse port, you must first turn the computer off.**
- Do not show this message in the future.**

Please use keyboard "Tab" key, "Space" bar and "Enter" key to select the item

"Do not show this message in the future." And finish booting Windows O.S..

6. This will mount the USB HID (Human Interface Device) driver that the Windows OS uses for USB mouse and keyboard support. Use Keyboard Tab key, Left Arrow key, Right Arrow key and Enter key to complete set up process.
7. Now install the next PC port of the USB KVM switch.
8. Repeat procedure item 5 and 6 to remaining PC.
9. Please use Windows to shut down computers.






2nd Step:

1. Connect PS/2 or USB keyboard and PS/2 or USB mouse to USB KVM Switch's console port.
2. Turn on all PCs.

Mac O.S. and Sun Micro Systems Keyboard Mapping

The following diagram indexes the Hotkey combination that emulates Mac O.S. and Sun Micro keyboard commands. This feature is only available on the PS/2 keyboard attached to the KVM, and is not available on the USB keyboard.

Left Windows Key = L_Win

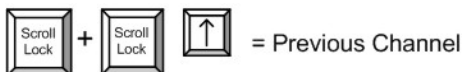
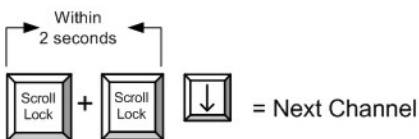
Sun Microsystems Keyboard	Window ps2 Keyboard	Mac OS
Stop	L_Win & L_Alt	
Props	L_Win & L_Ctrl	
Compose	L_Win & L_Shift	
Front	L_Win & F1	
Open	L_Win & F2	
Find	L_Win & F3	
Again	L_Win & F4	
Undo	L_Win & F5	
Copy	L_Win & F6	
Paste	L_Win & F7	
Cut	L_Win & F8	
Help	L_Win & F11	
Power 	L_Win & F12	Power 
Mute 	L_Win & "1"	
V_DN 	L_Win & "2"	
V_UP 	L_Win & "3"	
	Windows Key	Apple Key
	Alt	Option
	Print Screen	F13
	Scroll Lock	F14
	Pause Break	F15

Usage

The LEDs on the KVM top surface represents the number of the active computer supported. When using the Hot-Key commands, the indicators light up to specify the connected/monitored computer. Only one LED indicator lights up at a time.

Keyboard Hot Key Commands:

You can conveniently instruct the KVM to switch ports through simple key sequences. When sending commands to the KVM switch you must press the SCROLL LOCK twice within 2 seconds. The following illustrates the hot key commands.



Select Computer port:



Auto Scan Mode:



To leave Auto Scan Mode, press any key or the SPACE bar on your keyboard.

Troubleshooting

Ensure the proper connection of all cables. Label all cables (numerically or alphabetically) for each computer to avoid confusion.

Computer boot up tips

Do not press any key on the keyboard while the selected computer is booting up. Otherwise, it might cause a keyboard error, or an undetected keyboard, or an unpredictable error on the computer end.

Keyboard

The computer boots up fine, but the keyboard does not work.

- Verify that the keyboard works well when directly plugged into the computer.
- Try a different keyboard, but use only 101/102/104-key keyboard.

Mouse

1. The system cannot detect the mouse during computer boot up.
 - Double-check to see if the mouse works when directly plugged into the computer.
 - Make sure the connected mouse is a true PS/2 device. A combo mouse will only work provided it is set for PS/2 mode with the correct adapter. Try a different mouse.
2. Avoid moving the mouse or pressing the mouse buttons when switching ports.

Notebook computer

- Before turning on the notebook computer, we recommend users connect the computer to the emulation port (not directly linked to console) first before booting it up.
- **For KVM-02P only:** If user connects the notebook computer to the KVM switch after its (notebook computer) boot up process completes, please use the Hot Key command “Scroll Lock” + “Scroll Lock” “P” to link both of them together.
(The hot key “P” means to hot-plug KVM switch to Notebook computer again.)

Computer port cable extension:

If you wish to extend the current 6 foot KVM cable to a longer length, you can add a “female to male” KVM cable for remote connection. The maximum extended length of cable is 20 feet and it is recommended that you use high quality cable(s).

Remember to check our website at www.freedom9.com for the latest manuals and support information.

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