

Top View

KVM-102UEC

Mini Compact

Two Ports USB KVM Switch

USER'S MANUAL

MANMAK102UECA

Introduction

Thank you for purchasing the compact TOP-VIEW USB KVM switch. TOP-VIEW KVM switch can save your TIME, SPACE, EQUIPMENT and POWER.

Controlling multiple USB PCs from One PS/2 Keyboard, PS/2 Mouse and VGA Monitor or One USB Keyboard, USB Mouse and VGA Monitor. TOP-VIEW USB KVM switch is loaded with features such as hot key control, push button control and Console could be USB keyboard (or USB mouse) or standard PS/2 keyboard (or PS/2 mouse).

TOP-VIEW USB KVM switch also supports extra two comprehensive USB type A ports (if you use PS/2 console) for user to share more USB peripherals.

TOP-VIEW USB KVM Switch is compatible to AT, PS/2 style computers, SUN Microsystems computers, G3/G4 MACs or iMACs with USB port. All of USB ports of KVM switch are compliant to USB 1.1 Specification.

Features

- Two ports USB KVM switch, compact size design
- USB 1.1 Specification compliant
- Support UHCI, OHCI USB interface
- USB console works with Win98/SE/ME/2000/XP, WinNT, HP Unix, Linux, Sun Solaris, MAC O.S 8.6 or later version
- PS/2 console works with Win98/SE/ME/2000/XP, HP Unix, Linux, Sun Solaris, MAC O.S 8.6 or later version
- USB KVM switch is embedded with two USB device ports (if you use PS/2 console) for computers to share different USB peripherals.
- Manage multiple PCs, G3/G4 MACs, iMACs from one USB keyboard (or PS/2 keyboard), USB Mouse (or PS/2 mouse) and Monitor.
- Add PCs or Remove Connected PCs for Maintenance without powering down the PC
- Legacy Control: PS/2 Style Keyboard and PS/2 Style Mouse control all PCs and real time switch PCs without Hub
- USB Control: USB Style Keyboard and USB Style Mouse control all PCs
- Use push button or hot key control for easy computer selection.
- LED display for easy status monitoring
- Plug N Play, No Windows software driver needed for PS/2 keyboard and PS/2 mouse operation.
- Buzzer sound for switching port confirmation.
- Support auto scan function .
- High VGA resolution 1920X1440 and High bandwidth 200MHz.
- Support VGA DDC, DDC2, DDC2B.
- Supports USB bus power mode.
- Independently and simultaneously access USB devices and PC Selection for PS2 console user

Package Contents

Model No. KVM-102UEC:

Top-View Compact 2 ports USB KVM Switch
One user's manual

Technical Specifications

Model No.	KVM-102UEC
PC Port	2 USB Type B ports
Console Port	2 USB type A ports 2 PS/2 ports
PC Port Connector	USB Type B receptacle VGA HDB 15pin Female
Console port connector	USB Type A receptacle PS/2 Keyboard Mini Din 6 pin Female PS/2 Mouse Mini Din 6 pin Female VGA HDB 15pin Female
PC selection	Hot Key or Push Button
On Screen Display	No
PC port LED	2
Hub port LED	2
MAX PC Connections	2
Scan Intervals	5 ~ 100 sec.(Default 5 Sec When power on)
Keyboard Conversion	PS/2 to USB
Mouse Conversion	PS/2 to USB
VGA Resolution	1920X1440
Bandwidth	200MHz
Power Type	Bus Power
Power Adapter	No needed for bus power
Operation Temperature	0~40°C
Storage Temperature	-20 ~ 60°C
Humidity	0~90%, Non-Condensing
Size	Desktop size
Dimension (cm)	12.3 * 8.1 * 2.8
Weight (kg)	160g

System Requirements

Console side:

One VGA or the other VGA monitor
One USB keyboard or PS/2 keyboard
One USB mouse or PS/2 mouse

Computers side:

Two HDB 15 pin male to male VGA cables
Two USB A-B cables

Product Details

KVM-102UEC front Panel & Rear Panel:



MAC O.S. and Sun Micro Systems Keyboard Mapping

Usage

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	Windows 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

Hardware Installation

Before installation, please make sure all of peripherals and computers have been turned off.

1. Connecting USB A-B type cables to PC* and USB KVM switch. The type A connector of USB cable is for PC and the other end of USB cable is for USB KVM Switch.
2. Connecting HDB15 pin (Male to Male) cables to PC and USB KVM switch.
3. ~~VGA monitor's cable is connected to console VGA port.~~
4. Connecting keyboard and mouse to console PS/2 port.

* * * MAC and Sun Micro Systems has the similar installation to mentioned-above PC installation process.

The console ports of USB KVM switch support PS/2 or USB keyboard and Mouse. You have four kinds combinations ---

- a. PS/2 keyboard and PS/2 mouse
- b. PS/2 keyboard and USB mouse
- c. USB keyboard and PS/2 mouse
- d. USB keyboard and USB mouse

Note: When you finishing to install the PC systems with this KVM switch, there is only one of PCs can get the keyboard and mouse.

1. If the PC BIOS need check keyboard to accomplish boot up process and the PC might show keyboard error message on the screen, please configure the BIOS setting again (When you power on the PC system again, please press " del " key immediately for a couple of times and you will get into BIOS setting mode).

When you enter BIOS set up mode, please select the item " Halt on Error" or the other Error condition setting and select " Halt all errors but Keyboard " or to ignore keyboard during boot up BIOS process.

After you have configured the system BIOS already, please add the power adapter to the USB KVM switch. You need power on the system PC port by PC port for Windows O.S. recognizing what kind of keyboard and mouse. After the console port (keyboard and mouse) goes through all of PC port at first, you can boot all PCs simultaneously in next time.

2. The other PCs are unable to get the mouse during boot up system if PC BIOS system can accept no keyboard condition, The Window O.S. will show the following message or similar things :
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 select the item Do not show this message in the future. " and finishing booting Windows O.S..

The Push Button:

USB KVM switch supports one push button. You can select PC port and USB hub together through it. i.e. Hub and PC are selected at the same time

Keyboard:

There are two kinds of keyboard --- PS/2 type or USB type can be applied to this switch.

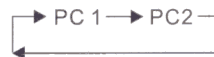
Mouse:

There are two kinds of mouse --- PS/2 type or USB type can be applied to this switch.

The Push Buttons:

Pressing the button cyclically through all the ports with USB Hub.

KVM-102UEC (2 Ports)



The LED of PC Selection Indication:

You can press the button in order like mentioned-above diagram. When you select one of two PC ports and this PC is shut down or this PC port is disconnected to the PC, the selected port LED will flash. When you select one of two PCs ports and this PC is powered on, the selected port LED is lit.

The LED of USB Hub Selection Indication:

There are two LEDs indicate the location of USB hub. When USB hub LED 1 is lit, it means that USB hub is occupied by PC 1. When USB hub LED 2 is lit, it means that USB hub is occupied by PC 2.

Hot Key control:

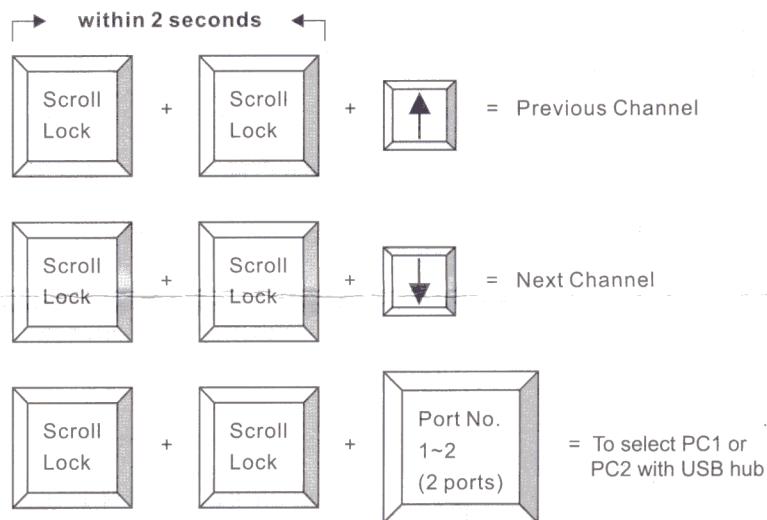
You can also conveniently command Top-View KVM switch by switching ports through simple key sequences.

Operation: PS2 Keyboard Hot Key

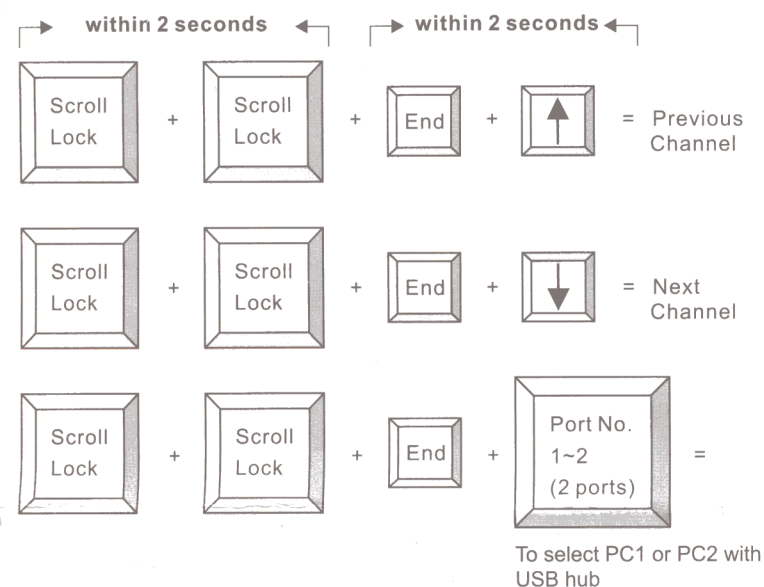
PS/2 Keyboard user : (This application is for Win98/98SE/ME/2000/XP HP Unix, Linux, Sun Solaris, MAC O.S 8.6 or later version operation systems)

To send commands to Top-View USB KVM, the SCROLL LOCK key must be pressed twice within 2 seconds. You will hear a beep for confirmation. If you have not pressed any key in hot key mode within 2 seconds (It means to key in any key follows up Scroll Lock Scroll Lock key), the keyboard will back to under Operation System control state.

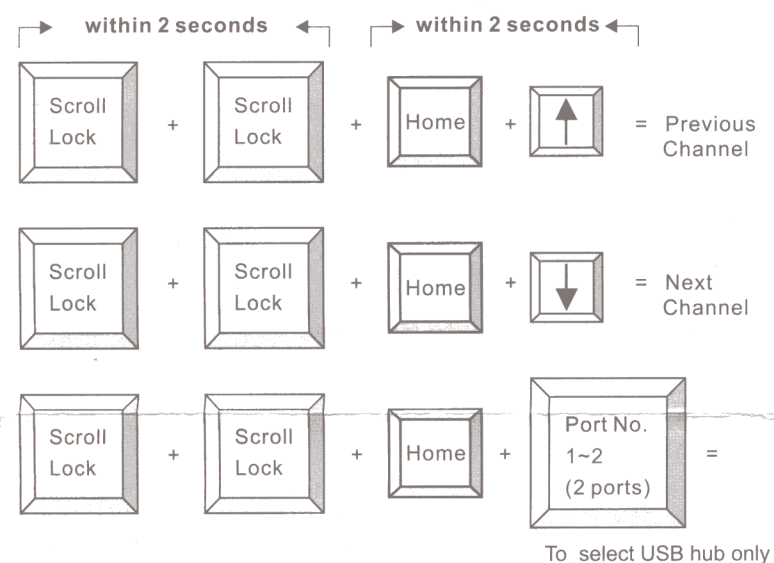
To select PC port with USB hub in PS2 hot key :



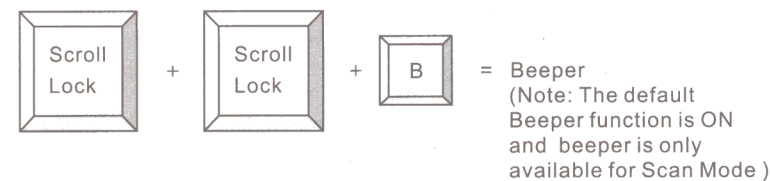
To select PC port only in PS2 hot key :



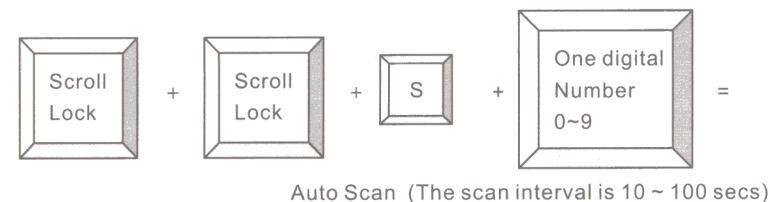
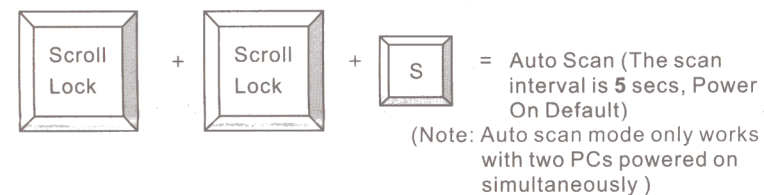
To select USB Hub port only in PS2 hot key :



Beeper Function:



Auto Scan Mode:



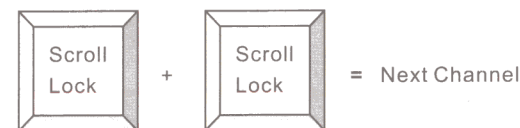
Digital Number 1: 10 secs 2: 20 secs 3: 30 secs 4: 40 secs 5: 50 secs
6: 60 secs 7: 70secs 8: 80 secs 9: 90 secs 0: 100 secs

Operation: USB Keyboard Hot Key

USB Keyboard user: (This application is only available on PC* with Win98/98SE/ME/2000/XP operation systems)

Press "Scroll Lock" twice within two seconds to switch to the next channels.

To switch PC channel and USB Hub together in the following key sequence:



" * " Mac O.S. and Sun Micro Systems Keyboard Mapping is not available on USB keyboard

Troubleshooting

Ensure that all cables are well seated. Label all of cables with the number for each respective computer to avoid confusion.

IBM PC or Compatible :

- ❑ PC cannot find keyboard or mouse after the boot process. Please make sure you power on the system PC port by PC port for booting Windows O.S. and for recognizing what kind of keyboard and mouse before you install this USB KVM switch first.
- ❑ Keyboard or mouse not working or not compatible with the PC, please make sure the keyboard or mouse works when directly plug in to the computer. If the problem persists, please try another keyboard or mouse.
- ❑ Mouse doesn't work in Auto Scan mode, you can press any key on the keyboard or the front button on the face plate for returning standard mode and then use the Keyboard or Mouse again.
- ❑ When KVM switch is in Auto Scan mode, there are only VGA monitor display and CPU alternately (but the USB Hub is not switched in auto scan mode). After you press any key, the PC port will be selected at the same time, as you see the current PC Screen.
- ❑ If you apply PS/2 keyboard to USB KVM switch's PS/2 port and are fail in booting PC on account of keyboard error (There is a keyboard error message exists on the screen), the PC BIOS(Basic Input Output System) need be upgraded to new BIOS for accepting USB to PS/2 conversion. Normally, most of BIOS' support , during PC boot process, to recognize USB to PS/2 keyboard conversion or USB keyboard.
- ❑ If your motherboard BIOS is unable to be upgraded to new BIOS, you may need boot this PC individually and the console port need be switched to this PC before you power on this PC.
- ❑ Some Operation System (O.S.) like Win NT, Unix need boot with KB and Mouse. So, please switch the console port of KVM switch to PC which installed Win NT or Unix before you power on the PC.
- ❑ The recommended VGA cable distance is 5 meters maximum without ghosting and degradation. Normally, the cable length is based on driver capacity of your VGA card. If you need longer VGA cable, please use VGA extender to accomplish your applications.
- ❑ The recommended keyboard or mouse cable is 10 feet maximum without degradation. Normally, the cable length is based on driver capacity of your motherboard. If you need longer keyboard or mouse cable, please use keyboard or mouse extender to get your applications.
- ❑ When you switch USB Hub from one PC to another and there are many USB devices are attached to the PC, it will take about 5~10 seconds for all USB devices initialization. So, to switch port will take more time than the switching time of conventional PS/2 KVM switch.
- ❑ When you use Japanese windows OS with 106 key keyboard, there are some special keys like " ¥ " need 106 key driver(Microsoft native driver in OS CD-ROM). Please follow procedures below and click the mouse to add new driver.

Control Panel → Add New Hardware → Next → Next → Select "No, the device isn't in the list" → Select "No, I want to select the hardware from a list" → Select Keyboard → Select Standard Keyboard → Select 106 日本語 (106 key driver) → reboot PC

SUN Microsystems :

- ❑ If you use SUN Microsystems with Top View compact USB KVM switch, you need switch the console to SUN Microsystems before you boot up SUN Microsystems. After you finish booting SUN Microsystems, you can switch console to the other computer port.
- ❑ If you apply PC USB keyboard to USB hub ports and SUN Microsystems are connected to this USB KVM switch, there is no SUN-to-PC keyboard mapping available. SUN-to-PC keyboard mapping is only valid at PS/2 keyboard port of USB KVM switch. You also can connect SUN USB keyboard to one of USB Hub ports.
- ❑ If you apply PC USB keyboard or SUN USB keyboard to one of USB hub ports and SUN Microsystems are connected to this USB KVM switch, there is no Hot Key function for this application.

MAC Computer :

- ❑ If you apply PC USB keyboard to one of USB hub ports and MAC computers are connected to this USB KVM switch, there is no MAC-to-PC keyboard mapping available. MAC-to-PC keyboard mapping is only valid at PS/2 keyboard port of USB KVM switch. You also can connect MAC keyboard to one of USB Hub ports.
- ❑ If you apply PC USB keyboard or MAC keyboard to one USB hub ports and MAC computers are connected to this USB KVM switch, there is no Hot Key function for this application.

CERTIFICATIONS

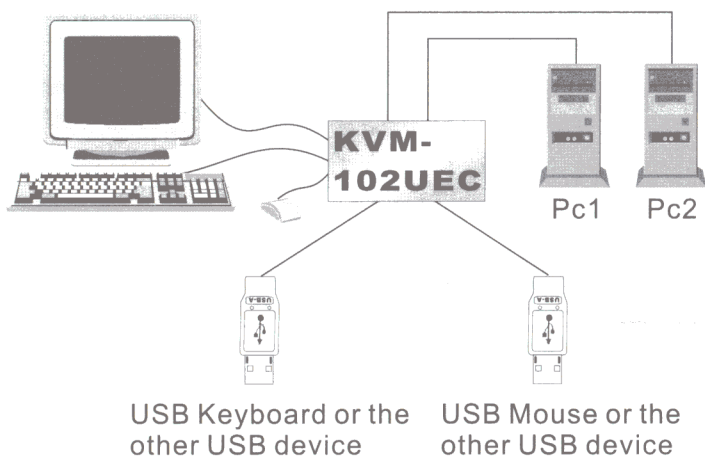
FCC

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

CE Certificate

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B



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