



freedom

**KVM-08H / KVM-16H Switch
with Remote Console**

Stackable TWO-CONSOLE
(One Local , One CAT5 Remote)
8 port / 16 port

19" RACK MOUNTABLE PS/2 KVM SWITCH

USER'S MANUAL

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Chapter 1: Introduction

Thank you for purchasing the Two-Console PS/2 KVM switch. The Two-Console PS/2 KVM switch can save your MONEY, TIME, SPACE, EQUIPMENT and POWER.

The Two-Console switch controls multiple computers from one Keyboard, Mouse and VGA Monitor with complete keyboard and mouse emulation for simultaneous computer boot-up. It has various features such as one local console port and one remote console up to 500-feet away using a CAT5 console port. Other features include 19" Rack Mount Size, Daisy Chain up to 8 units, On Screen Display Menu, Password security, searching computer server name, Hot key Control, Push Button and Auto Scan Control.

The CAT5 console port extends COMPUTER/SERVER up to 500 feet away from your controlling keyboard, mouse and VGA monitor. A *transmitter* is built into the KVM switch. It synthesizes the PS/2 keyboard signal, PS/2 mouse signal and VGA monitor signal, and allows transmission over long distances using standard Ethernet CAT5 cable. The *Cat5 Remote Console Receiver* decodes the synthetic signal and returns it back to PS/2 keyboard, PS/2 mouse and VGA monitor signals. In addition, the *Cat5 Remote Console Receiver* does not require a dedicated computer since it has an extra computer port which is built-in the receiver.

The *Cat5 Remote Console Receiver* is a good solution for those noisy server room environments where it is unsuitable for people to work in for sustained periods of time. It facilitates effective management on dispersed computers through one dedicated central room, control room, demonstration room, meeting room, or at your desk. CAT5 STP cable (Shielded Twisted Pair)/ UTP cable (Unshielded Twisted Pair) or enhanced cable like CAT5E/CAT6 cable is widely available because of LAN network popularity. In addition, *KVM-CAT5 transmitter* uses the same existing network construction to transfer the local console signal to remote side.

The *Cat5 Remote Console Receiver* allows you to move your console, i.e. Keyboard, Mouse and VGA monitor, to a suitable place for convenient centralized control. You just need to install a CAT5 remote console receiver at the remote side you would like to locate to. It saves on your cable layout and cable installation cost.

The two-console KVM switch is also daisy chained with the single console KVM switch. It is highly recommended to place the two-console KVM switch at master bank and the single KVM switch at slave banks.

Two-console 8 port PS/2 KVM Switch:



Two-console 16 port PS/2 KVM Switch:



Features

- 8/16 port Two-Console PS/2 KVM switch is standard 1U 19" rack mount size design.
- Support one local console and one CAT5 remote console up to 500 feet away from KVM switch.
- Support Microsoft® Intellimouse®, Microsoft® Intellimouse® Explorer, Logitech Net Mouse or the other fully compatible MS mice.
- Support DOS, Win3.X, Win95/98/98SE/2000/ME/XP, WinNT, Netware, Unix, Linux.
- Support iMAC, Power MAC and Sun Microsystems with USB port (USB-PS/2 adapter required).
- Hot Plug - Add computers or Remove Connected computers for Maintenance without Powering off the KVM switch or computers.
- Very High Video Quality - Up To 1920X1440, Bandwidth: 200MHz.
- No Software Required - easy computer selection via On Screen Display Menu, Push Buttons, and Hot Keys.
- Support eight-character password protection and computer server name searching.
- Auto-Scan Mode for monitoring computers with flexible Scan time from 5~99 seconds.
- Keyboard status restored when switching computers.
- LED Display for easy status monitoring.
- Buzzer sound for switching port confirmation.
- One extra daisy chain port built-in without using existing computer ports.
- Auto-detect of daisy chain bank - No manual DIP switch setting needed.

Package contents

Model No.: Two-console 8 port PS/2 KVM Switch

8 port PS/2 KVM Switch with CAT5 remote console port	1 pc.
CAT 5 Remote Console Receiver	1 pc.
Power Adapter DC9V, 500mA (for KVM Switch)	1 pc.
Power Adapter DC9V, 500mA (for CAT5 Remote Console Receiver)	1 pc.
Rack Mount Kit	1 SET
User's manual	1 pc.

Model No.: Two-console 16 port PS/2 KVM Switch

16 port PS/2 KVM Switch with CAT5 remote console port	1 pc.
CAT 5 Remote Console Receiver	1 pc.
Power Adapter DC9V, 500mA (for KVM Switch)	1 pc.
Power Adapter DC9V, 500mA (for CAT5 Remote Console Receiver)	1 pc.
Rack Mount Kit	1 SET
User's manual	1 pc.

Chapter 1: Introduction

Technical Specifications

Model No.	Two-console 8 port PS/2 KVM Switch	Two-console 16 port PS/2 KVM Switch
Computer Port	9 (8 local and 1 remote)	17 (16 local and 1 remote)
Console Port	2 (1 local and 1 remote)	2 (1 local and 1 remote)
Computer Port Connector (All Female Types)	VGA HDBB 15pin (shared with PS/2 keyboard and Mouse)	
Console Port Connector (All Female Types)	Local Console: PS/2 Keyboard (Mini Din 6 pin) PS/2 Mouse (Mini Din 6 pin) VGA HDBB 15pin Remote Console: RJ-45 4P8C	
Daisy Chain Port Connector (All Female Type)	PS/2 Keyboard (Mini Din 6 pin) PS/2 Mouse (Mini Din 6 pin) VGA HDBB 15pin	
Computer selection	On Screen Display Menu, Hot Key, Push Button	
Computer Port LED	16	32
Bank 7 segment LED	1	
On Screen Display Control	Yes	
Scan Intervals	5-99 Sec.	
Keyboard Emulation	PS/2	
Mouse Emulation	PS/2	
VGA Resolution	1920X1440	
Bandwidth	200MHz	
Daisy Chain MAX Level	8 levels	
MAX Computer Connection	120+1 (120 local and 1 remote)	128+1 (128 local and 1 remote)
Housing (KVM Switch)	Metal	
KVM Switch Power Adapter	DC 9V, 500mA	
Cat5 Remote Console Receiver Power Adapter	DC 9V, 500mA	
Operation Temperature	0 to 50°C (32 to 122°F)	
Storage Temperature	-20 to 60°C (-4 to 140°F)	
Humidity	0 to 95%, Non-Condensing	
Size	19" Rack Mount / 1RU	19" Rack Mount / 1RU
Weight (g) (KVM Switch)	2010 (4.43 pounds)	2220 (4.89 pounds)
Weight (g) (CAT5 Receiver)	120 (0.26 pounds)	120 (0.26 pounds)
Dimension (cm) (KVM Switch)	41 x 16.4 x 4.5 (16.14 x 6.46 x 1.77 in.)	41 x 16.4 x 4.5 (16.14 x 6.46 x 1.77 in.)
Dimension (cm) (CAT5 Receiver)	11.15 x 7.5 x 3.95 (4.39 x 2.95 x 1.56 in.)	11.15 x 7.5 x 3.95 (4.39 x 2.95 x 1.56 in.)

System Requirements

Model No.	Two-console 8 port PS/2 KVM Switch
Local Console side	One VGA Monitor One PS/2 Keyboard One PS/2 Mouse One DC9V 500mA power adapter
Remote Console side	One CAT5 cable One KVM CAT5 receiver One DC9V 500mA power adapter One VGA Monitor One PS/2 Keyboard One PS/2 Mouse One 3 to 3 KVM cable (KCB-3036F or KCB-3031)
Computer side	1 to 3 Hi Density KVM cable (KCB-1236F or KCB-1231) (HDDB 15 pin male to one HDDB 15 pin video and Mini Din 6 pin keyboard and mouse connectors) Note: One per computer, max. 8 per switch

Model No.	Two-Console 16 port PS/2 KVM Switch
Console side	One VGA Monitor One PS/2 Keyboard One PS/2 Mouse One DC9V 500mA power adapter
Remote Console side	One CAT5 cable One KVM CAT5 receiver One DC9V 500mA power adapter One VGA Monitor One PS/2 Keyboard One PS/2 Mouse One 3 to 3 KVM cable (KCB-3036F or KCB-3031)
Computer side	1 to 3 Hi Density KVM cable (KCB-1236F or KCB-1231) (HDDB 15 pin male to one HDDB 15 pin video and Mini Din 6 pin keyboard and mouse connectors) Note: One per computer, max. 16 per switch

Chapter 1: Introduction

Cable Diagrams

Computer Port Special Cable:

1 to 3 Hi Density KVM cable (KCB-1236F or KCB-1231) HDDB 15 pin male to one HDDB 15 pin video and Mini Din 6 pin keyboard and mouse connectors



AT to PS/2 keyboard adapter: (Optional)

Din 5 pin Male to Mini Din 6 pin Female



Daisy Chain Cable: PS/2 Cable:

Din 5 pin Male to Mini Din 6 pin Female



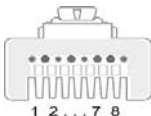
VGA Cable:

HDDB15 pin Male to Male

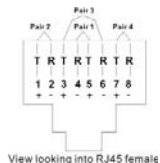


CAT5/5E/6 Straight Through UTP/STP Cable:

4P8C



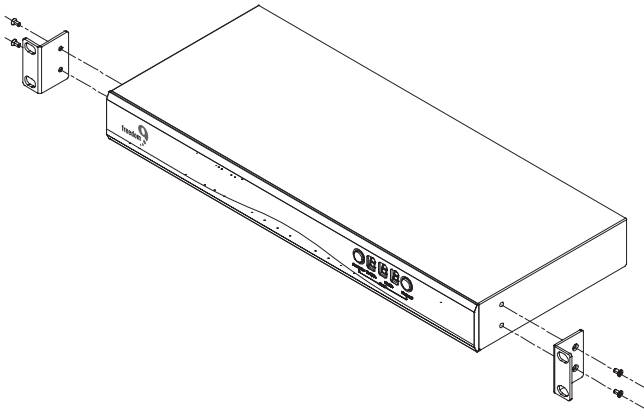
Pin	Wire Color	Pair	Function
1	White/Orange	2	T
2	Orange	2	R
3	White/Green	3	T
4	Blue	1	R
5	White/Blue	1	T
6	Green	3	R
7	White/Brown	4	T
8	Brown	4	R



Before installation, please make sure all the peripherals and computers have been turned off. The installation below is based on 8 port-Rack Mount KVM Switch. Please follow the same installation procedure for the 16 port Rack Mount KVM Switch.

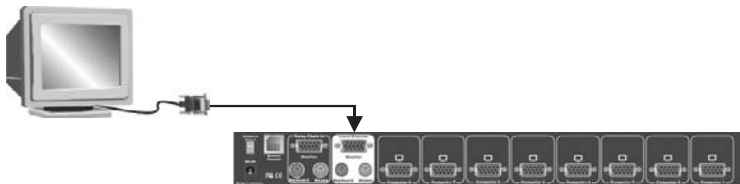
Step 1

Find a convenient place to put your KVM Switch. Its 19" rack mount form factor makes it ideal to be mounted on a 19" rack. When mounting to a rack, attach the included brackets to the sides of the KVM Switch. Take note of the length of your cables so that your computers, KVM Switch, keyboard, mouse and monitor are distanced properly.



Step 2 (Local Console)

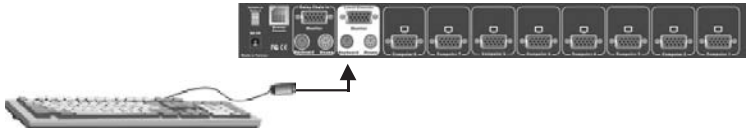
Connect the monitor to the KVM Switch. Connect the attached cable, or the one included with your monitor, to the HDDB-15 female port on the back of the KVM unit marked with the monitor symbol at the CONSOLE connector.



Chapter 2: Hardware Installation

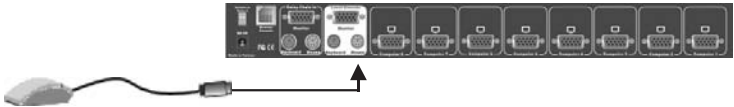
Step 3

Connect the keyboard to the KVM Switch. If you have an AT type keyboard, you will need an AT to PS/2 adapter.



Step 4

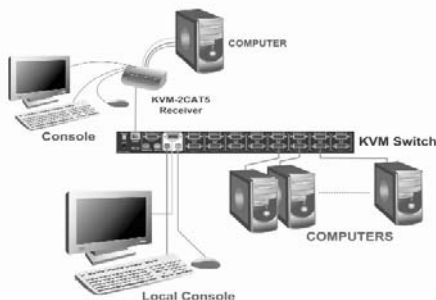
Connect the mouse to the KVM Switch.



Step 4-1 (Remote Console)

Extending your computer console up to 500 feet away:

- (1) Make sure the CAT5 cable used is a straight through type. (see page 5)
- (2) Plug one end of the CAT5 cable into the RJ-45 connector of the PS/2 KVM switch and the other end into KVM CAT5 receiver RJ-45 port.
- (3) Connect remote keyboard, mouse and monitor with PS/2-EXTENDER-RECEIVER "KB", "MS" and "Monitor" interface.
- (4) Connect CAT5 receiver computer port with computer console port by using 3 to 3 KVM cable.

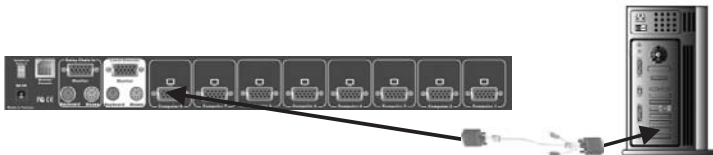


NOTE:

1. Local console and Remote console of KVM Switch will have the same priority to control computer, just like a computer connected to two consoles. The remote console can control both the local computer and remote computer connected to KVM switch; however, the local console can only control the computers on local side. There will be a conflict, if the local console and remote console access the computer simultaneously. Please don't use local console and remote console at the same time.
2. When the video signal is foggy or un-clear on the screen, please check if VGA connector is connected properly, or the VGA resolution is too high for the length of cable being used. If the problem happened at VGA resolution, please shorten the CAT5 cable length or reduce VGA resolution. It is recommended to use "optimal CAT5 cable length" to get the best video quality and don't add unnecessary CAT5 cable length. High VGA resolution is up to 1280X1024 and CAT5 cable length could be up to 500 feet.
3. There is a Dip Switch on the rear of the KVM switch. The factory default value is "OFF/OFF" state. When you use CAT5 cable length over 300 feet, please set DIP Switch to "ON/ON" state. The other settings like "ON/OFF" or "OFF/ON" state is reserved for future applications.

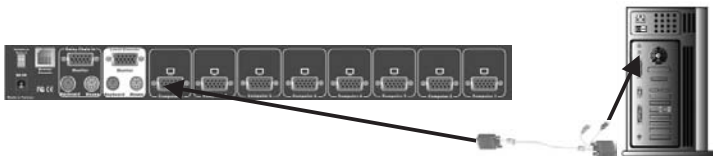
Step 5

Computer port connectors of the KVM switch are HDDB-15 pin type. Plug the end of the cable which is HDDB-15 pin male connector to the selected computer port on the rear of KVM switch unit. The other end of the cable which has three connectors: a HDDB-15 pin male type for computers video, a Mini Din 6 pin female type for keyboard and a Mini Din 6 pin female type for mouse, will be attached to keyboard, mouse and monitor ports of the respective computer. Repeat the same procedure for all computers.



Step 6 (Optional)

If your computer has an AT type keyboard port (Din 5 pin), you will need a PS/2 to AT keyboard adapter.



Chapter 2: Hardware Installation

Step 7

Check all of the connections carefully. The keyboard and mouse connectors are color coded to help in connecting the keyboard and mouse cables to the correct ports.

Step 8

Attach the power supply to the KVM unit and plug the other end into an electrical receptacle. Now you will see the LED for Port 1 light up, and you will hear a beep. Switch on your monitor.

NOTE:

Though the computers connected to KVM Switch are able to support enough power to the stand alone switch, it is suggested that the power adapter be plugged in. The KVM Switch will need a power adapter to daisy chain more banks and if you forget to plug in the power adapter on the status of daisy chain, it may cause unexpected operation.

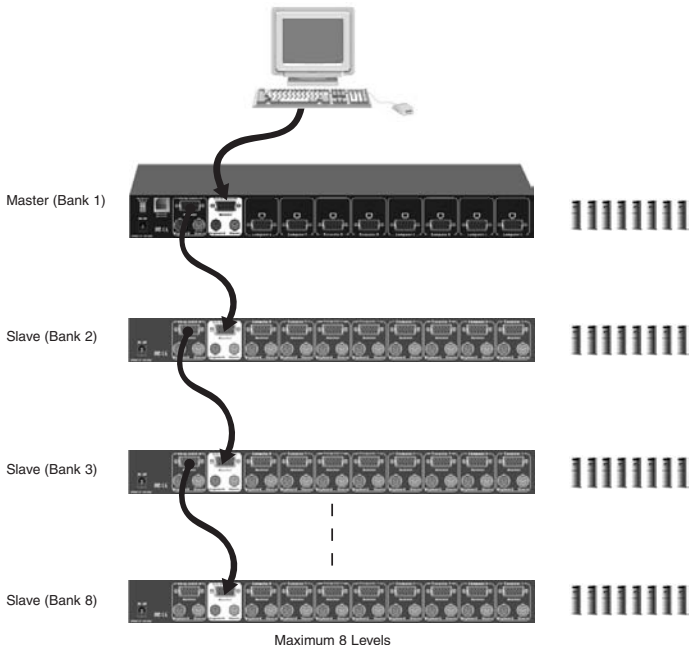
Daisy Chain Connection Diagram

Please use the 3 ft (91.44cm), 3 to 3 daisy chain Cable to daisy chain the KVM Switch.

- A. Connect Keyboard, Mouse and Monitor to the console port (white color block) of bank 1 KVM switch.
- B. Use one end of 3 to 3 Cable to connect the daisy chain port of bank 1 and the other end to the console port (white color block) of bank 2 KVM switch.
- C. Please repeat item B to daisy chain more bank as you want. But, the maximum level of daisy chain bank is eight.
- D. While chaining the slave bank up to six banks, you may need a VGA extender between the fifth bank and the sixth bank to enhance the VGA signal.

NOTE:

If you would like to daisy chain 8 port, or 16 port PS/2 or KVM Switch together, the master bank must be 16 port PS/2 or KVM Switch

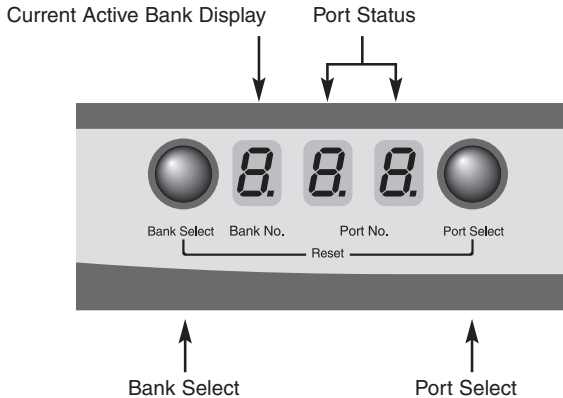


Chapter 3: Console Operation

Password Protection

There is an administration password for locking the console display and switching between managed computers. This password can be set by using the OSD. The password supports up to 8 digits, and only accepts "A-Z", "0-9". The default password is "00000000". For security reasons, please change the default password the first time you configure the KVM switch. It is strongly recommend to write down the new password. If the password is forgotten, you will need to contact the vendor to erase the password that had been set.

Selecting Computer Using Push Button



Reset Button:

Press Port Select and Bank Select of bank 1 (master) simultaneously to reset KVM switch. This reset action will not only return KVM switch back to initial state but it will also re-check any slave banks which are connected to the master KVM switch.

If you add a new KVM SWITCH as a slave bank, please use reset button of master KVM switch to assign a new ID to the slave. You can view the new slave bank by using the OSD menu after the reset.

Example:

To access a computer attached to Port 3 of the first Bank. First, you can push Bank Select once, and the Bank No will display current Active (1) Bank. Then you can push Port Select three times and the Port No will display Port Status (3) Port.

Keyboard Hot Key Commands:

You can also conveniently command KVM switch to switch ports simple via key sequences. To send commands to KVM switch, the "SCROLL LOCK" key must be pressed twice within 2 seconds. You will hear a beep for confirmation and then the keyboard is in hot key mode. If you have not pressed any key in hot key mode within 2 seconds (It means there is no keystroke after "Scroll Lock" key), the keyboard will be back to Operation System control state.

Selecting Computer Using Hot Key

You can conveniently command your KVM SWITCH by keyboard hot key entry. To send commands to the KVM SWITCH, the "SCROLL LOCK" key must be pressed twice within 2 seconds, then you will hear a confirmation beep that the keyboard is in hot key mode. If you have not pressed any additional key in hot key mode within 2 seconds, the keyboard will return back to the normal Operation System control state.

Below are the hot key commands list:

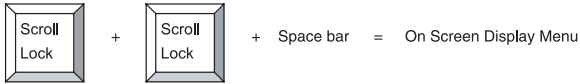
This Combination				Does This
Scroll Lock	Scroll Lock	↑	=	Previous Channel
Scroll Lock	Scroll Lock	↓	=	Next Channel (Note: You could also press "up arrow key" or "down arrow key" to speed up selection of the destination port)
Scroll Lock	Scroll Lock	Page Up	=	Previous Bank
Scroll Lock	Scroll Lock	Page Down	=	Next Bank
Scroll Lock	Scroll Lock	Bank No + Port No	=	Computer Selection
Scroll Lock	Scroll Lock	B	=	Beeper (Note: The default Beeper function is ON)
Scroll Lock	Scroll Lock	S	=	Auto Scan
Scroll Lock	Scroll Lock	R	=	OSD default value (Note: 1. Rom re-flash command takes 2~3 minutes. 2. Not including password)
Scroll Lock	Scroll Lock	F	=	Search the same computer name (Note: Search computer name starts from 1 st computer port)
Scroll Lock	Scroll Lock	Space bar	=	On Screen Display Menu

NOTE:

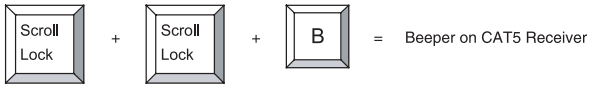
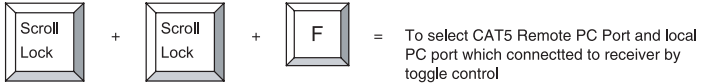
1. If you enable the scan mode command, the KVM switch will issue one Beep for confirmation each time one of the KVM ports hop to the next KVM port.
2. To get out of Auto Scan Mode, press any key or Space bar.
3. If you are trying to access a single digit port no. precede the port no. with a zero (0).
Example: To access bank 3 and port 2, press "SCROLL LOCK" twice followed by the "302" value.

Chapter 3: Console Operation

Selecting Computer through Hot Key - Example



Below are the different hot key commands (for CAT5 remote):



Example:

- A. To access a computer attached to Port 2 of Bank 3. You can press through hot key as below:
Scroll lock + Scroll lock + 3 + 0 + 2
- B. To access a computer attached to next Bank, You can press through hot key as below:
Scroll lock + Scroll lock + Page Down

NOTE:

Use numeric keys on the keyboard to select Bank no. and Port no. Numeric keys on the keypad are not available as a hot key command.

Hot Plug Function

KVM switch supports “ Hot Plug ” function. When mouse/keyboard connection has been changed from one port to the other, it is not necessary to reboot the managed computer for the change to take effect.

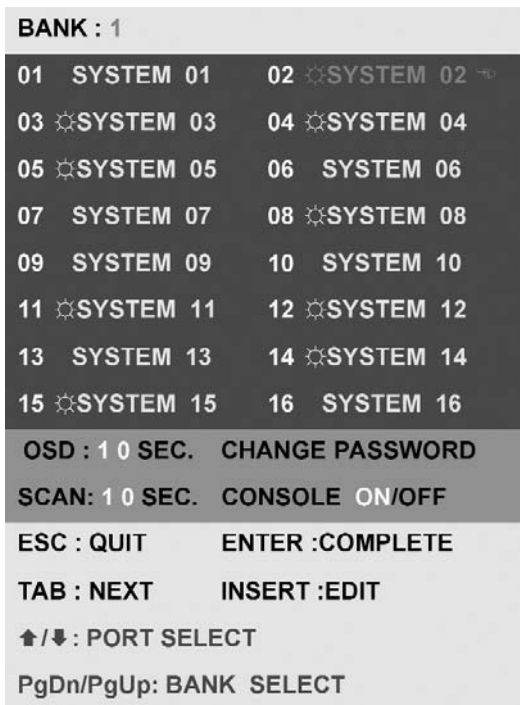
NOTE:

Some O.S. (Operation Systems) like SCO Unix are unable to support “ Hot Plug ” function. If you apply “Hot Plug” to this kind of O.S., it will cause unpredictable behavior or shut down the computer. Before using “ Hot Plug ” , please make sure your O.S. and mouse software driver supports the “Hot Plug” function.

Chapter 3: Console Operation

OSD OPERATION Details

When you access the OSD menu by using the hot keys, you will see the following window pop up on your monitor.



The 1st line bar is Bank No.

The 2nd block is your KVM's computer system name list. You will find the system number list from 01 to 08. You can define your system name with a maximum of 8 levels. The factory default of the 8 port KVM (or 16 for KVM-16H) switch is "SYSTEM 01", "SYSTEM 02", ..., "SYSTEM 08".

OSD OPERATION Details

Sun symbol “☀” indicates a powered on status for the KVM port.

The sun symbol “☀” beside the computer system name shows that computer is at powered on status.

Use up arrow key “↑” or down arrow key “↓” to select KVM port.

Use up arrow key “↑” or down arrow key “↓” to select port for destination computer system name. After selecting the KVM port you want, press the ENTER Key to immediately switch to that KVM port.

Use “PgUp” or “PgDn” key for selecting previous or next Bank No.

Use “PgUp” key or “PgDn” key for selecting previous or next Bank No. (or KVM unit No.)

Press “Insert” key for editing computer name.

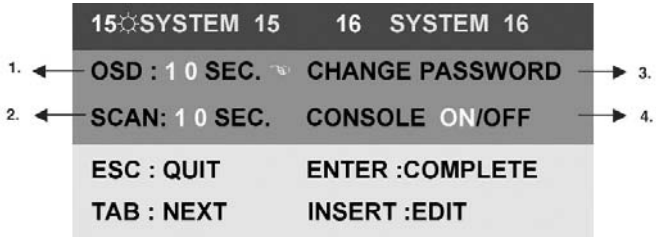
Press “INS” key for editing computer system name. When editing is finished, press the “Enter” key to save the information.

Press “Tab” key to select Bank, OSD, Scan...etc.

Use “Tab” key to select items like Bank, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc...

Chapter 3: Console Operation

OSD OPERATION Details continued



1. The "OSD: 10 SEC" means that the OSD windows display or computer system name will display for 10 sec. on your monitor. You can modify it from 05 sec to 99 sec. The factory default value is 10 sec.
2. "SCAN" is the scan interval between one KVM port hopped to the next KVM port. The default SCAN time is 10 sec and the maximum scan time is 99 sec.
3. "CHANGE PASSWORD" allows the user to change the password used to access all computer systems connected to the KVM. The default password is 8 digits "00000000".
4. "CONSOLE ON/OFF" lets you select the console access of the KVM switch. If you select "CONSOLE ON", any user can use the console. If you select "CONSOLE OFF"(factory default is OFF state), a password must be entered to use the console. When you enter the password and pass the KVM switch authentication, the CONSOLE will be set to ON. After you finish using the KVM switch, please do not forget to set the CONSOLE ON state to OFF for password authentication. (Note: If you reset the KVM switch, or there is a power failure, the CONSOLE will be set at the OFF state.)
5. When you finish the set-up of computer system name and exit the OSD setting mode, you will find the computer name at the upper-left corner of the monitor. You can clear the message right away by pressing ESC key if you don't need it.



6. If you want OSD to return back to the factory default settings, you can execute "SCROLL LOCK", "SCROLL LOCK", "R" keys in order. The Display LEDs on the front panel will be flashed during the refresh process.



When the OSD returns to default settings, the Display LEDs on the front panel will stop flashing.

1. Make sure that all cables are well connected. Label all of cables with the number for each computer respectively to avoid confusion.
2. To avoid ghosting and degradation, the recommended VGA cable distance is 5 meters (16.4 feet) maximum. Normally, the cable length is based on driver capacity of your VGA card. If you need a longer VGA cable, please use a VGA extender to accomplish your application.
3. The recommended PS/2 cable distance is 5 meters (16.4 feet) maximum. Normally, the cable length is based on driver capacity of your motherboard PS/2 port. If you need longer PS/2 cable, please use PS/2 extender to accomplish your applications.
4. Don't press any keys on the keyboard while the selected computer is booting up. Otherwise, it might cause the keyboard error or keyboard is not detected at computer side.
5. The computer boot up is fine, but keyboard doesn't work
 - Make sure the keyboard works when it is directly plugged into the computer.
 - Try a different keyboard, but use only 101, 102 or 104-key keyboard.
6. The Mouse is not detected during computer boot up.
 - Make sure the mouse works when directly plugged into the computer.
 - Make sure the mouse is a true PS/2 mouse. A combo mouse will work just as long as it is set for PS/2 mode with the correct adapter. Try a different mouse.
 - Avoiding moving the mouse or pressing the mouse buttons when switching ports.
 - Avoiding switching ports during shutting down the computer process.
 - When you switch one computer port to another, please set the scan time for 5 sec at least. Normally, it takes one or two seconds for the VGA monitor to change from one resolution mode to another. So, the scan time is not recommended to be less than 5 seconds.
7. The power switch is off, but the switch still works fine or power adapter is unplugged from the switch, but the switch still works fine. KVM Switch unit draws the power source from power adapter and all computer's PS/2 port. Some computer's PS/2 port can support enough power for the switch, but some computer's PS/2 port (like laptop, notebook computer...etc.) is unable to supply enough power for the switch. In order to make sure the system can work steadily, please do not set power switch as off state or remove the power adapter from the switch. Although the computers connected to KVM Switch unit are able to support enough power to the stand alone switch, KVM Switch unit still needs a power adapter for daisy chain more banks.
8. If you forget the "password" you typed, please contact your supplier.
9. CAT5 Console Receiver power LED is not ON, to make sure power adapter is connected to KVM CAT5 receiver.
10. No video signal is displayed on the remote monitor.
 - a. It might happen because VGA cables & connector and CAT5 cable & connector is loosed or disconnected or VGA cable was not attached to computer during boot up process.
 - b. Or power adapter is not connected to receiver.
11. When video signal is foggy or un-clear on the screen, please check if VGA connector is connected properly, or if the VGA resolution is too high for the length of cable being used. If the problem happened at VGA resolution, please shorten the CAT5 cable length or reduce VGA resolution. It is highly recommended to use *optimal CAT5 cable length* to get the best video quality and avoid adding unnecessary CAT5 cable length. VGA resolution is up to 1280X1024 and CAT5 cable length could be up to 500 feet approximately.

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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