

DF-800/1600

Modular Combo-Free KVM Switch

User Manual

Rev 1.0

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1. Introduction

The DF 800-1600 8/16-port modular combo-free KVM switch can control attaching servers and computers from local or remote console. This KVM switch is loaded with features such as **one optional CAT5-based remote console port or one optional IP-based remote console Port**, On Screen Display (OSD) Menu, Password security, Hot key Control, Auto Scan Control. It has complete keyboard and mouse emulation for simultaneous PCs boot-up process.

With the CAT5-based remote console port you can you remotely control servers and computers 1000 feet away. In other words, you can locate your monitor, keyboard and mouse up to 1000 feet away from the KVM switch. The built-in CAT5 transmitter synthesizes VGA monitor and keyboard/mouse signals, and transmit the signals to the remote CAT5 receiver over the popular LAN CAT5 cable.

With the IP-based remote console port you can control one or many computers locally at the server site or remotely via the Internet using a standard browser. You can securely gain BIOS level access to systems for maintenance, support, or failure recovery over the Internet. Communication is secure via SSL encryption.

1.1 Features

- Dual Console 8/16-port KVM switch
- Support combo interface for connecting to computer ports conveniently
- Support one local console plus one optional remote console (CAT5 or IP)
- CAT5 console up to 1000 feet away from KVM switch with superior **auto-adjust** RGB gain/delay control capability
- Support MS windows, Netware, Unix, and Linux
- Support iMAC, Power MAC and Sun Micro Systems with USB port
- No Software Required --- easy computer selection via On Screen Display (OSD) Menu, Push Buttons, and Hotkeys
- Provide various Hotkey (Scroll-Lock/ Cap-Lock/ Num-Lock/ L-Alt/ L-Ctrl/ L-Win/ R-Alt/ R-Ctrl/ R-Win) for switching computer port and other control

functions, so Hotkey function can be used in various types of keyboards, and to avoid Hotkey duplicate problem.

- Provide ACL (Access Control List) security function. Store up to 8 independent user accounts
- Hot Plug --- add or remove connected computers without powering off the KVM switch or computers
- Support two user layers, and search computer/server name
- Plug-n-Play monitor support
- Keyboard status restored when switching computer
- Support Daisy Chain function with both Bus (8-layer) and Tree (2-layer) topologies

1.2 Package Contents

Modular KVM Switch Unit	1 PCS
Quick Installation Guide	1 PCS
Bracket with thumb screw	1 SET
Screw	4 PCS

Table 1-1. Package Contents

1.3 Technical Specifications

Feature	Specification
KVM Type	PS/2 and USB interface KVM switch
Console Ports	Plus One Optional Remote Module
PC Port Connector	HDDDB-15
PC Ports	8/16
Max. Distance (KVM switch -- Host)	10 m (32 feet)
Video Resolution (Local Console)	1920 x 1440
Video Resolution (Remote Console)	1600 x 1200 for CAT5-Based 500 feet remote console 1024 x 768 for CAT5-Based 1000 feet remote console. 1280 x 1024 for IP-Based remote console
CAT5-Based Remote Console Module	RJ-45 Connector, CAT5 console up to 1000 feet away from KVM switch with superior, auto-adjust RGB gain/delay control capability
IP-Based Remote Module	RJ-45 8P8C for 10/100M Ethernet, DB9 male for Modem, Null modem and serial power control, Mini USB 2.0 receptacle
Daisy Chaining	Support Daisy Chaining with both Bus (8-layer) and Tree (2-layer) topologies, DB15 Female Connector
Computer port selection	On Screen Display (OSD) Menu, Hot Key
Hotkey	Provide various Hotkey (Scroll-Lock/ Cap-Lock/ Num-Lock/ Alt/ Ctrl/ Win)
Security	Provide ACL (Access Control List) security function, store up to 8 independent controllable Computers lists
Multilingual OSD (On	8 languages (English, France, German, Spanish,

Screen Display) control	Italian, Russian, Japanese, Simplified Chinese)
Auto-Scan Intervals	5 ~ 99 Sec.
Keyboard Emulation	PS/2 or USB
Mouse Emulation	PS/2 or USB
Housing	Metal
Power	DC Power adapter : 12VDC, 1A
Operation Temperature	0 ~ 50 °C
Storage Temperature	-20 ~ 60 °C
Humidity	0 ~ 80%, Non-Condensing
Mechanical	For 1U rack mount modular design LCD console use
Dimension	420 x 170 x 44 mm / 16.5 x 6.7 x 1.7 inches

Table 1-2. Technical Specifications

1.4 System Requirements

Model No.	DF800-8 ports modular combo-free KVM switch
Computer side	8 x HDDDB-15 pin male to one HDDDB-15 pin, one Mini Din 6 pin, and one USB special cables
IP module	One CAT5 cable Network access environment
CAT5 module	One CAT5 cable R-Box (CAT5 KVM extender receiver) One VGA Monitor One USB Keyboard One USB Mouse Optional computer

Table 1-3. System Requirements

Model No.	DF1600-16 ports modular combo-free KVM switch
Computer side	16 x HDDDB-15 pin male to one HDDDB-15 pin, one Mini Din 6 pin, and one USB special cables
IP module	One CAT5 cable Network access environment
CAT5 module	One CAT5 cable R-Box (CAT5 KVM extender receiver) One VGA Monitor One USB Keyboard One USB Mouse Optional computer

Table 1-4. System Requirements

1.5 Cable Diagrams

PC Port Special Cable:

HDDB-15 pin male to one HDDB-15 pin male, one Mini Din 6 pin and one USB special cables

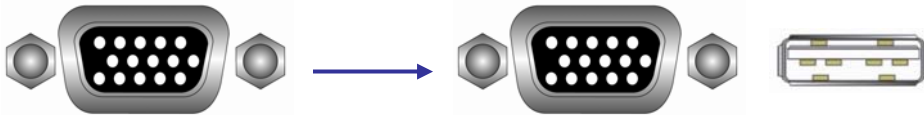


Figure 1-1. HDDB-15 / VGA + USB x 1 (1.8M)



Figure 1-2. HDDB-15 / VGA + PS/2 x 1 (1.8M)

Daisy Chain Cable:

VGA Cable:

HDDB-15 pin Male to Male

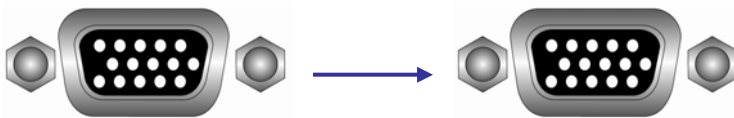
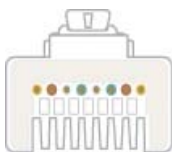


Figure 1-3. Daisy Chain Cable



Daisy chain needs the cable all 15 lines connected. This is a special VGA cable, normal VGA cable has unconnected lines. **Do not use other VGA cable for daisy chain.**

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



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

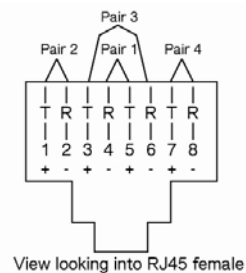


Figure 1-4. CAT5/5E/6 Straight Through UTP/STP Cable (8P8C)

1.6 Rear Panel

8 port Modular Combo-free KVM Switch:



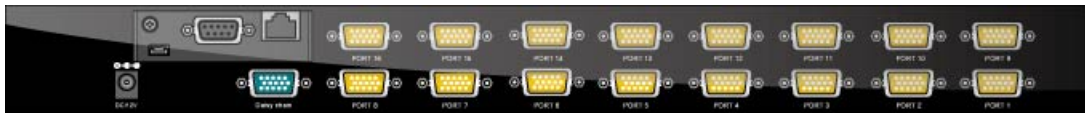
16 port Modular Combo-free KVM Switch:



8 port Modular Combo-free KVM Switch with IP module:



16 port Modular Combo-free KVM Switch with IP module:



8 port Modular Combo-free KVM Switch with CAT5 module:



16 port Modular Combo-free KVM Switch with CAT5 module:



Figure 1-5. Rear Panel

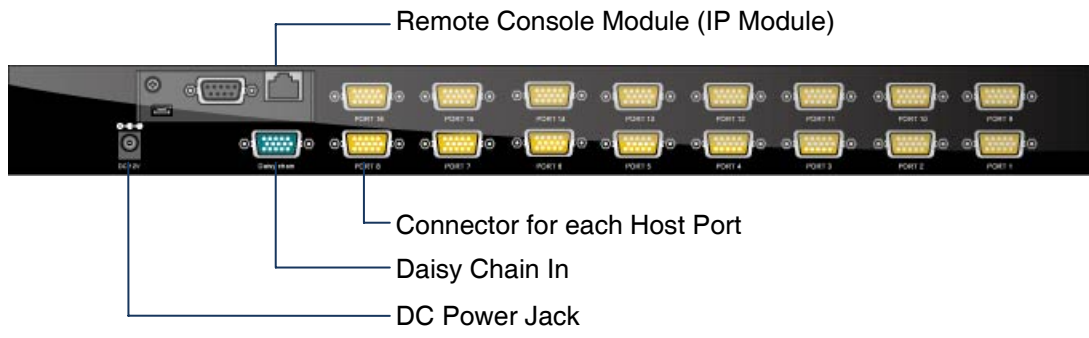


Figure 1-6. Rear Panel

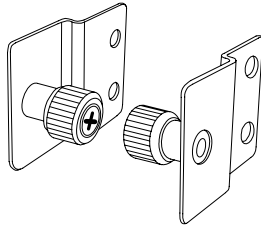
2. Hardware Installation

1. Please check all peripherals according the list before installation. To make sure that the whole unit was not damaged and lost during shipping process. If you encounter any problem, please contact your dealer.
2. Before installation, make sure all peripherals and console have been turned off.

2.1 Rack Mount Installation

Hardware kits contents:

1. Bracket A with thumb screw x 2

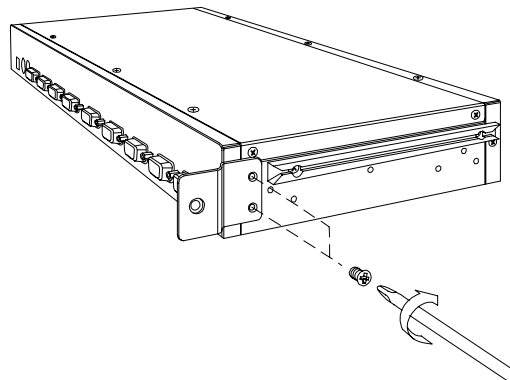


2. Screw (length = 6 mm) x 4



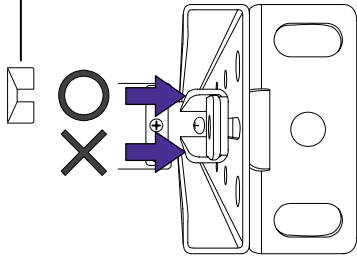
Install modular KVM switch step:

1. Install two screws (length = 6 mm) to combine bracket A and KVM switch. (Both sides)

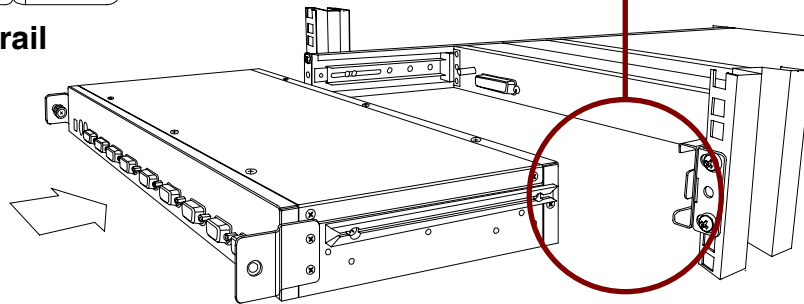


2. Push KVM switch into the rails from rear of cabinet.

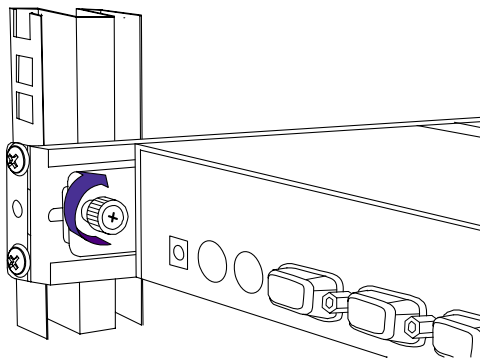
plastic rail of KVM switch



rear view of rail



3. Tight thumb screw of bracket A up to fix KVM switch in console and finish installation. (Both sides)



2.2 Computer / Server Installation

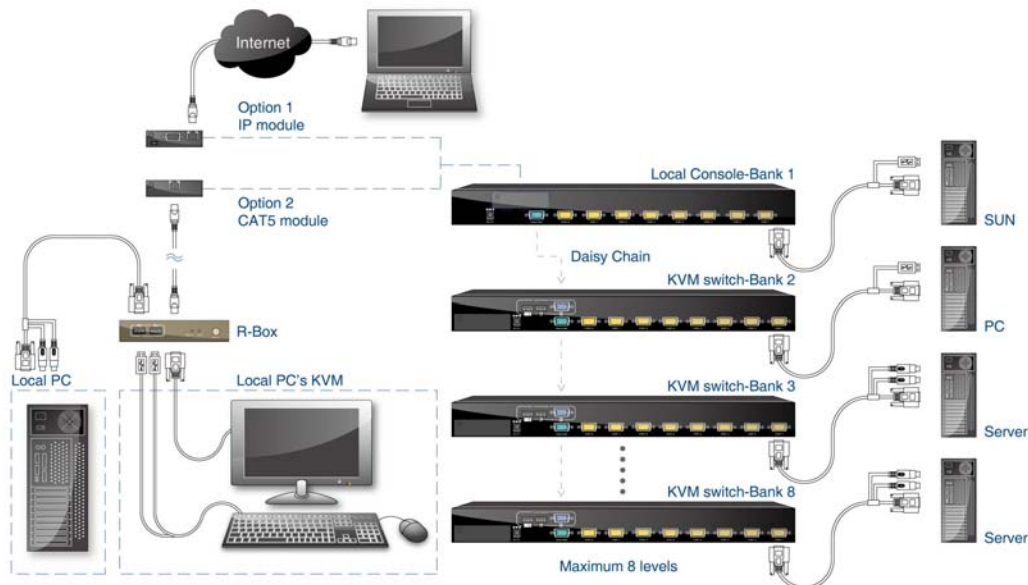


Figure 2-1. Computer / Server Installation

3-in-1 HDDB-15 Cable Installation

Each computer port connector is HDDB-15 type. Inspect the 3-in-1 DB15 cable. It will have a HDDB-15 male connector at one end. Plug it into computer port on the rear of KVM switch. The other end of input cable has three connectors: a HDDB-15 male type for computer video, a purple mini din 6-pin PS/2 connector for keyboard and a green mini din 6-pin PS/2 connector for mouse. Plug these three connectors into the respective ports of computer. Repeat the same procedure for all other computers.

- a. PS/2 computer --- Plug PS/2 mouse connector to computer mouse port and PS/2 keyboard connector to computer keyboard port. Do not hot plug PS/2 port. If you must do that make sure PS/2 mouse first then the PS/2 keyboard.

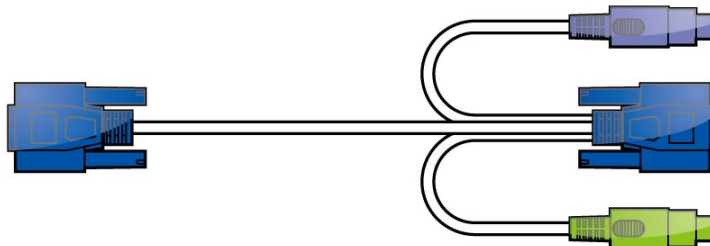


Figure 2-2. 3-in-1 HDDB-15 Cable

b. USB computer --- Plug in USB connector. This single USB connector can handle both keyboard and mouse data, it work as a standard HID (Human Interface Device) no extra driver needed.

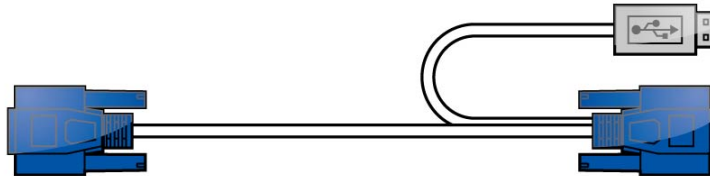


Figure 2-3. HDB-15 / VGA + USB Cable

2.3 Optional Module Installation

IP Module

Please refer to “IP KVM Module User Manual” for details.

IP Remote Console

Installation: Power off the KVM switch firstly. Remove the cover of the add-on slot, slide in the IP Module and make sure the module is fully inserted into the slot.

The IP Module redirects local keyboard, mouse and video data to a remote administration console. It allows you to control one or many computers locally at the server site or remotely via the Internet using a standard browser.



Figure 2-4. IP Module Installation

CAT5 Module

CAT5 Remote Console

Installation: Power off the KVM switch firstly. Remove the cover of the add-on slot, slide in the CAT5 transmitter module and make sure the module is fully inserted into the slot.

To extending your console up to 1000 feet away by connecting the CAT5 cable to the R-Box in the remote end.

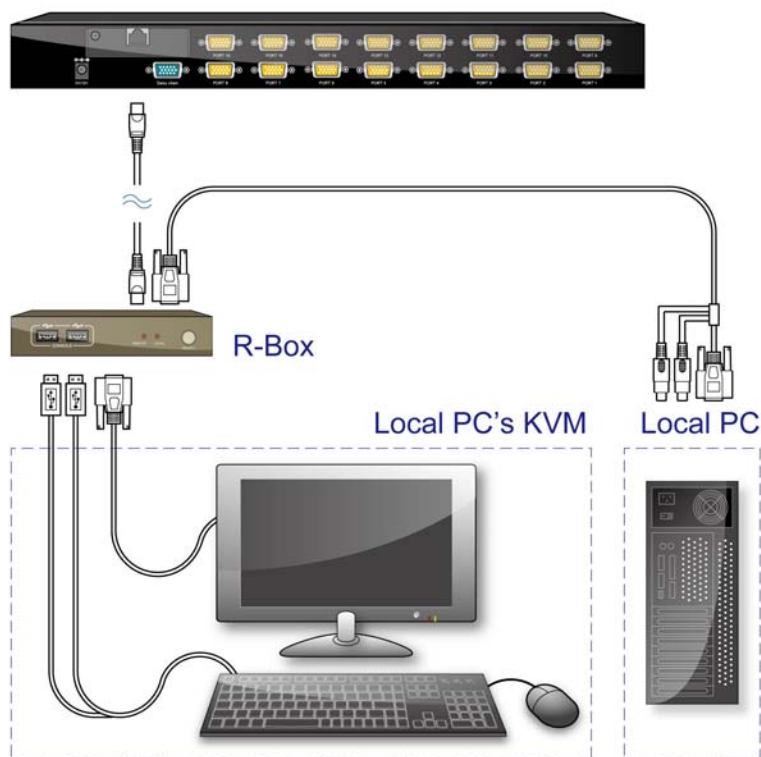


Figure 2-5. CAT5 Module Installation

2.4 Power ON

Check connections and plug in power supply

Double check whether all cables/connectors are properly connected. You can check the color of keyboard and mouse connector to make sure the keyboard and mouse cables go to the correct ports.

Plug the power supply to the KVM switch and plug the AC power plug into the electrical receptacle. Now you will see the LED of Port 1 lights up, and hear a

beep sound.

Recommend Power ON sequence as follows: Monitor, KVM Switch, finally Computer.

2.5 CAT5 KVM Receiver (R-Box)

The CAT5 KVM receiver (R-Box) uses CAT5 cable to extend your keyboard, mouse and monitor 1000 feet (300 meters) away from the KVM switch. It also has built-in 2-to-1 OSD KVM switch for selecting remote or local Computer.

2.6 CAT5 Receiver Installation

1. Make sure the CAT5 cable is straight through type.
2. Plug one end of CAT5 cable into RJ-45 connector of the KVM switch CAT5 console port, and plug the other end of CAT5 cable into RJ-45 port of the R-Box.
3. Connect keyboard, mouse and monitor to the R-Box console ports (USB Keyboard/Mouse ports, and VGA port)
4. Connect Local Computer to R-box with the accompanied 3-in-1 HDDB-15 cable.
5. Power on the R-Box by plugging in the power adaptor
6. Push the **SELECT** button to select remote or local Computer.

2.7 When video signal is foggy or unclear

The R-Box (CAT5 Receiver) enables user to access to the computer, server, or KVM switch up to 1000 feet (300 meters) away with superior auto-adjust RGB gain/delay control capability

CAT5 cables has CAT5, CAT5e, CAT6 and STP/UTP types; If your application need high VGA resolution and long distance please select high end cables. It is highly recommended to use optimal CAT5 cable length to get the best video quality and not waste unnecessary CAT5 cable.

2.8 Daisy Chain Connection

Use one end of daisy chain cable to connect to the **Daisy Chain port** of Master KVM switch and connect the other end of daisy chain cable to the **Local Console port** of the next Slave KVM switch. Please repeat the connection procedures for next Slave KVM switch. You can daisy chain up to eight banks in maximum.

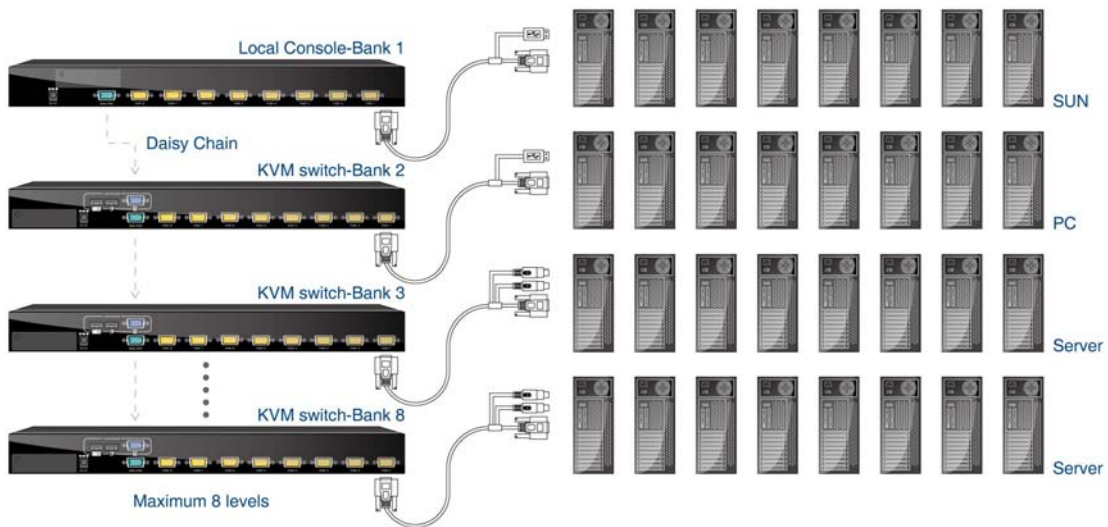


Figure 2-6. Daisy Chain Connection

The console OSD menu will show only the port information of the master KVM switch. When the master unit starts up, it will query all daisy chained Slave units, and automatically set up the Bank ID for each Slave unit.

3. Usage

When you power on KVM switch, it will prompt a Login window waiting for user name and password. Please refer to “Hotkeys and OSD manual” for details.

3.1 Front panel:

8 / 16 ports



Figure 3-1. Front Panel

3.2 Hot plug

The KVM Switch supports “Hot Plug” function for any non-PS/2 connectors. You may Hot Plug the USB mouse or USB keyboard as you like.



- DO NOT hot plug PS/2 port.
- Some O.S. (Operation Systems) like SCO Unix or Linux does not 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 attempting to use “Hot Plug”, please make sure your O.S. and mouse software driver support the “Hot Plug” function.

4. Hotkey

You can also conveniently command KVM switch by switching ports through simple key sequences. The default hot key is **SCROLL LOCK** and the user could change hot key as your convenient application. If you prefer to use some hot key, please go to OSD menu and change the default hot key to the other. 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 the keyboard is in Hotkey mode. Then you have to enter **Command** in 2 seconds. If you have not pressed any key during Hotkey mode over 2 seconds the Hotkey mode will be escaped and back to Operation System control state.

A Command should be issued in Hotkey mode in 2 seconds.

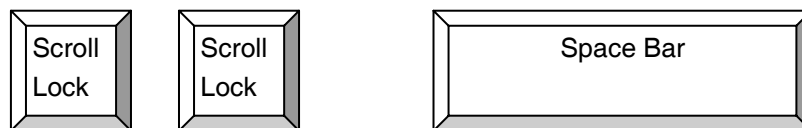


Figure 4-1. Hotkey

Command	Function
Space bar	Active OSD
↑	Previous Channel
↓	Next Channel
[1,2,...,8] bank, [01,02,...,16] port	First digit bank number start with 1 Second and third digits port number start with "01"
PgUp	Previous bank
PgDn	Next bank
"B"	Turn on / off beeper
"S"	Auto Scan
"U"	Console Security "ON" to "OFF"
"P"	User logout / login
"R"	OSD setting back to factory default value
"L"	Turn on / off power saving

Table 4-1. Hotkey

Example: hitting Scroll Lock twice then hitting key 1, key 0, and key 1 will switch to bank 1 port 01. The first port is local at bottom right at the back panel.

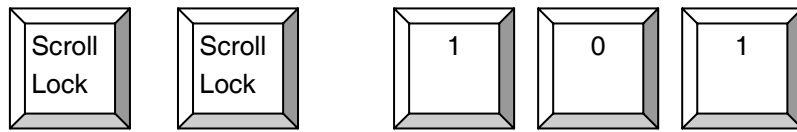


Figure 4-1. Hotkey Example

There are two methods to activate the OSD menu.

1. Activate OSD by Mouse

Hold the left mouse button press and release the Esc key will activate the Port Display. Hold the right mouse button press and release the Esc key will activate the OSD.

2. Active OSD by press Hotkey twice then press Space bar.

5. OSD (On Screen Display)

On Screen Display Menu provides a menu driven interface to handle a Multilingual Menu, Access Security, Computers switching process, to name a PC name or server name, to set up the password/window display time and to search PC port name if you don't remember it.

It allows two console users to access the same PC and only one of users has been linked to this PC first, another user can only view the same PC.

This OSD Menu has 3 tiers dialog window:

1. **Login Window** --- When powering on this KVM switch, it will prompt a login window and ask for user name and password. This KVM system can setup one SUPERVISOR and eight USERS. Before not setting up administrator user's name and his password, none of administrator users could access OSD menu. When you login with Supervisor, please go to USER SECURITY to set up one new SUPERVISOR or USERS. SUPERVISOR can access all Main menu options. USER can access PORT NAME and PORT SEARCH for switching.
2. **Port Name**--- port switching using OSD
3. **Main Menu**--- 8 menus to operate this KVM switch

MAIN MENU	Function
01 LANGUAGE	OSD language change
02 PORT NAME EDIT	PORT NAME modification
03 PORT SEARCH	quick searching by port name
04 USER SECURITY	Change password
05 ACCESS LIST	Define user access authority
06 HOT KEY	Change Hotkeys
07 TIME SETTINGS	Modify SCAN time interval
08 OSD MOUSE	Modify OSD MOUSE speed

Table 5-1. OSD Main Menu

5.1 Login Window

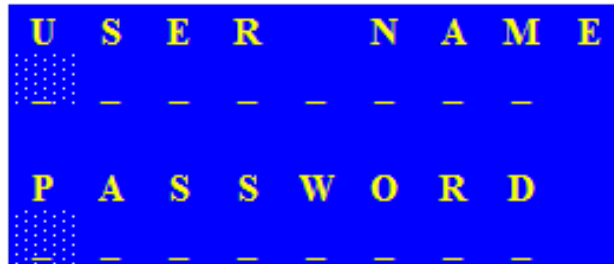


Figure 5-1. Login Window

Turn on local console monitor and power on by plug in the power adapter, there will be login window at screen. No input for username and password over 1 minute at login windows the monitor’s signal will be turn off. The default SUPERVISOR user name is all eight zero digits “00000000 “.. The password is all eight zero digits “00000000 “. . .

After login on or port switch either by panel button, OSD or Hotkey, the screen will display the following information, one digit BANK NUMBER, two digit PORT NUMBER, PORT NAME and current Hotkey, any input or mouse move the screen will back to PC.



Figure 5-2. Login Window

Security Logout

No input for username and password over 1 minute at login windows the console monitor’s signal will be turn off.
 At normal operation, no input from console keyboard or mouse over 10 minutes the KVM switch will turn off the screen display then go to Login Windows ask for user name and password.

5.2 Port Name



Figure 5-3. Port Name

OSD Function Key	Description
F1	Go to Main Menu
F2	CONSOLE OFF
F3	Previous Menu
Enter	Switch to Selected Port
↑ / ↓	Move Select
PgUp	Previous Bank
PgDn	Next bank
Esc	Quit
1	Show port 01 ~ 08
2	Show port 09 ~ 16
3	Show port 17 ~ 24
4	Show port 25 ~ 32

Table 5-2. OSD Function Key

CONSOLE OFF – logout so the next person needs to enter user name and password in order to do operation on this KVM system

USER: There are two type of user SUPERVISOR and USER. SUPERVISOR can setup the change the OSD settings at Main Menu. USER can do Port switch and Port Search only.

5.3 Main Menu



Figure 5-4. Main Menu

OSD Function Key	Description
Enter	Select
↑ / ↓	Move
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-3. OSD Function Key

5.3.1 LANGUAGE

The default language is ENGLISH. Moving the cursor by keyboard -- Up Arrow key “↑” or the Down Arrow key “↓” or mouse to select language as you need.



Figure 5-5. Language

5.3.2 PORT NAME EDIT

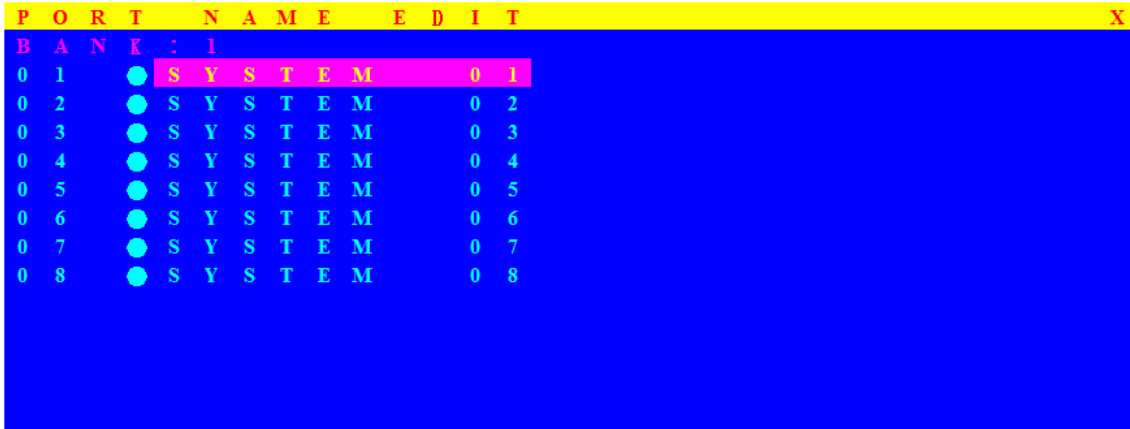


Figure 5-6. Port Name Edit

OSD Function Key	Description
Enter	Port Name Edit
↑ / ↓	Move
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit
1	Show port 01 ~ 08
2	Show port 09 ~ 16
3	Show port 17 ~ 24
4	Show port 25 ~ 32

Table 5-4. OSD Function Key

The first line bar is Bank number, following lines are port name list.

Use Up Arrow key “↑”, Down Arrow key “↓” or OSD MOUSE to move. After you have selected the PC port already, you can either press the Enter” ← “Key, or Move the cursor to PC name double clicks the left button of mouse to switch the PC port immediately. Press PgUp key or PgDn key for selecting previous or next Bank.

Press the Up Arrow key “↑” or the Down Arrow key”↓” to select “system 02 “ and press Enter”← ” key to switch current PC port to PC port 2, or moving

cursor to SYSTEM 02 and double clicks the left button of mouse to switch current PC port to PC port 2.

Press “ **Ins**” key or click the right button of mouse for editing PC name.

Press “ **Esc**” key to cancel editing PC name without any change or Enter” ↵ ” key to complete the new PC name.

5.3.3 PORT SEARCH

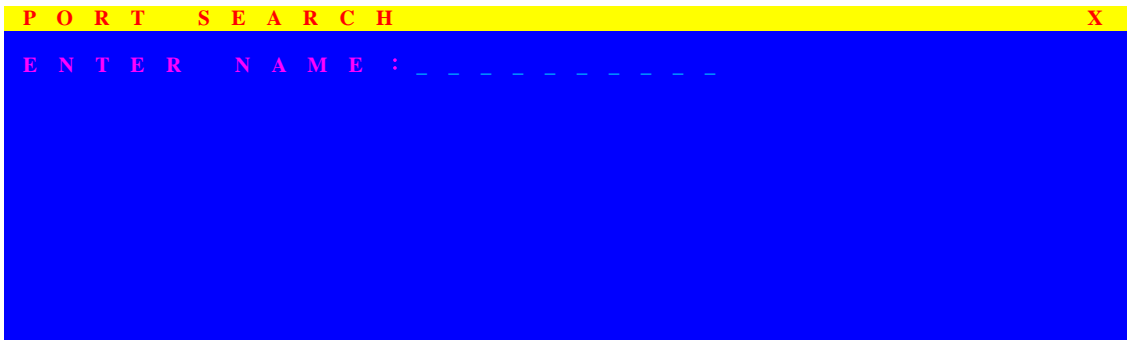


Figure 5-7. Port Search

OSD Function Key	Description
Enter	Start Port Search
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-5. OSD Function Key

Search the computer by port name. Enter “*” will show the all the port.

5.3.4 USER SECURITY

At USER SECURITY of OSD can setup one SUPERVISOR and eight ADMINISTRATORS all with 8 digits name and password.



Figure 5-8. User Security

OSD Function Key	Description
Enter	Enter user name
→ ↑ ← ↓	Move
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-6. OSD Function Key

Press “ENTER” key to get USERS list. The left column “S” means SUPERVISOR and “1”, “2”, “3”, ..., “8” mean ADMINISTRATOR. The maximum NAME is eight characters maximum (A~Z and 0~9) and PASSWORD is eight characters maximum (A~Z and 0~9).

5.3.5 ACCESS LIST

A C C E S S L I S T														X		
B	A	N	K	:	I			1	2	3	4	5	6	7	8	
0	1	●	S	Y	S	T	E	M	0	1	0	0	0	0	0	0
0	2	●	S	Y	S	T	E	M	0	2	0	0	0	0	0	0
0	3	●	S	Y	S	T	E	M	0	3	0	0	0	0	0	0
0	4	●	S	Y	S	T	E	M	0	4	0	0	0	0	0	0
0	5	●	S	Y	S	T	E	M	0	5	0	0	0	0	0	0
0	6	●	S	Y	S	T	E	M	0	6	0	0	0	0	0	0
0	7	●	S	Y	S	T	E	M	0	7	0	0	0	0	0	0
0	8	●	S	Y	S	T	E	M	0	8	0	0	0	0	0	0
0	9	●	S	Y	S	T	E	M	0	9	0	0	0	0	0	0
1	0	●	S	Y	S	T	E	M	1	0	0	0	0	0	0	0
1	1	●	S	Y	S	T	E	M	1	1	0	0	0	0	0	0
1	2	●	S	Y	S	T	E	M	1	2	0	0	0	0	0	0
1	3	●	S	Y	S	T	E	M	1	3	0	0	0	0	0	0

Figure 5-9. Access List

OSD Function Key	Description
Enter	Select
→ ↑ ← ↓	Move
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-7. OSD Function Key

Only SUPERVISOR can set up the ACCESS LIST. The first column is the PC name list the following 8 column the access right of each ADMINISTRATOR use OSD MOUSE or Enter key to active/inactive the access right of each port. “X” means to disable access and “O” means to enable access.

5.3.6 HOTKEY

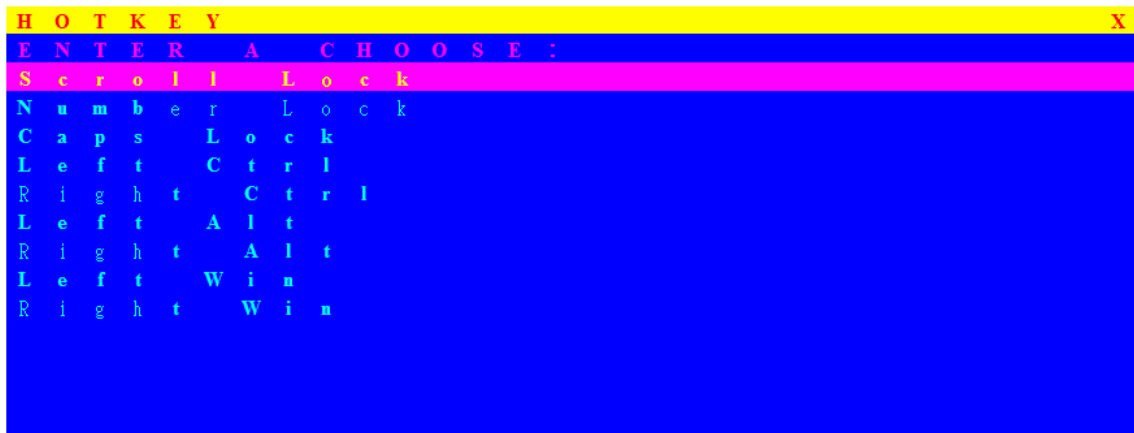


Figure 5-10. Hotkey

OSD Function Key	Description
Enter	Select
→ ↑ ← ↓	Move
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-8. OSD Function Key

Some keyboard may not equip with all the special keys. Make sure the key you select is available in you keyboard.

5.3.7 TIME SETTINGS



Figure 5-11. Time Settings

OSD Function Key	Description
Enter	Save
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-9. OSD Function Key

The “SCAN TIME: 10 SEC” means that scan interval from one PC port to next PC port. The default SCAN time is 10 seconds and the maximum scan time is 99 seconds, can not use number pad. Press “**Enter**” key to save SCAN TIME

5.3.8 OSD MOUSE

You can change the move speed of mouse cursor in his item. There are three levels you can choose in it. The fastest move speed is “FAST”, the second is “MIDDLE” and the slowest is “SLOW”. Using “↑” and “↓” key on keyboard to move highlight bar and select what move speed you want to use. After press Enter Key, the mouse cursor move speed will change.



Figure 5-12. OSD Mouse

OSD Function Key	Description
Enter	Save
↑ / ↓	Move
F1	Go to Main Menu
F2	Console off
F3	Back
Esc	Exit

Table 5-10. OSD Function Key

6. Troubleshooting

1. The computer boot up fine, but keyboard doesn't work
 - PS/2 keyboard or PS/2 mouse port is not designed for Hot Plug. USB mouse and keyboard can Hot Plug, but need to wait few seconds for Computer bus emulations.
 - 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 Host side.
 - Make sure the keyboard works when directly plugged into the computer.
 - Try a different keyboard, but use only 101, 102 or 104-key keyboard.
2. The Mouse is not detected during PC boot up
 - Make sure to plug in mouse first, then plug in keyboard.
 - Make sure the USB or PS/2 mouse works when directly plugged into the computer.
 - Avoiding moving the mouse or pressing the mouse buttons when switching ports.
3. No video signal display on the remote monitor
 - Please go to check all of VGA cables & connector and CAT5 cable & connector are firmly connected.
4. Video signal is foggy or unclear on the screen
 - Please check if the VGA connector connected firmly. Check if the VGA resolution is too high for the length of CAT5 cable being used. If the problem happened at VGA resolution, to 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 not waste unnecessary CAT5 cable.
 - If the CAT5 Receiver is not connecting a local computer, please make sure the monitor is grounded properly.

VGA resolution output mismatch with the monitor's

The KVM switch will provide DDC information to all the PC VGA board. If both the local console's monitor and KVM switch are turned on before the PC boot up, or if the PC boot up faster than the KVM switch, the PC miss the DDC (Data Display Channel) information that causes the VGA resolution output mismatch with the monitor's.

In this case, please turn off the PC wait few minute then turn on again.

7. 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. Include interference that may cause undesired operation.

CE

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

RoHS

All contents of this package, including products, packing materials and documentation comply with RoHS.

