



KVM-3208/3216 User Manual



The KVM Switch features some distinguishing features that help make your server management both hassle-free and efficient:

Longer Daisy-chaining Distance up to 30M

The KVM Switch now supports longer daisy-chaining distance up to 30M than the previous versions. However, users of previous versions should upgrade all the daisy-chained units to the latest firmware before attempting daisy-chaining.

Active Sync Replication™ for Best Video Compatibility

The KVM Switch features the Active Sync Replication™ (A.S.R.) technology that offers a full-time DDC emulation for best video compatibility with new type of Operating System that requires all-time DDC communication.

Advanced Autoscan Modes

The advanced autoscan modes support four scanning modes: either you can scan **ALL** computer ports regardless of whether they are connected with computer or not, or you can only those **Live** computers with power feed, or you can specify whether a computer to be included within the EasyView (**EzV**) scan group, and scan only within the EzV group. Furthermore, you can scan only those Live computer within the EzV group (**Live + EzV**). The mode selection can be done on the OSD by accessing Main / Setup / Autoscan mode.

These diverse selection and combination of scan modes will allow users a very flexible autoscanning capability with more subtlety in monitoring specific set of computers.

Last Known Active Port Restore

This Last Known Active Port Restore, when enabled, will allow the KVM switch to immediately switch to the last known active port when restored to power again after an unexpected power loss. This feature is useful when you need to track which port is being monitored before a power shutdown or an accidental power loss. By default, this feature is disabled. To toggle on/off the Last Known Active Port feature, just use the hotkey Scroll+ Scroll + L.

Title Bar Positioning Alternatives and Timeout

The title bar which shows the computer name can now be positioned in either left or right position, either with or without a 5-second timeout option. To select the title bar positioning, just go to the OSD Main Page / Setup / Title Bar, and select it.

INSTALLATION

Take the KVM Switch out of the box and begin installation... If you are using any PS/2 computer: Please make sure all of PS/2 computers be powered off before connecting to the KVM Switch. Otherwise, the KVM Switch system might not be properly set up. However, USB computers do not have this limitation.

Step 1. Make sure (at least the PS/2) computers that are to be connected to the KVM switch are powered off. If not, power them off.

Step 2. Connect the shared keyboard, mouse and monitor to the console connectors on the rear of your (master) KVM switch. Power on the KVM Switch by attaching the power adapter cord.

Although the power is constantly fed through the USB or PS/2 interface from the connected computers, it is still recommended to use the external power adapter for more stability.

If you use only a single KVM switch in non-cascaded application, you should ignore step 3, 4 and 5 and jump directly to step 5.

If you want to daisy-chain multiple KVM Switches: Go to step 3. You can daisy-chain up to 16 levels of KVM Switches for a total daisy-chain cable length of at least 30M and a maximum total of 256 computers connected. Note that any daisy-chaining attempt to go beyond 30M will suffer trade-off of video degradation as depending on the cable quality.

Daisy-chain user must know: Previous versions of KVM Switch MIGHT NOT be COMPATIBLE for daisy-chaining with the current version. Erratic behaviors might occur if current and older versions working together. If that is the case, you should upgrade all units to the latest firmware version. If still in doubt, please consult your dealer for more information.

Step 3. Use the daisy-chain cable to connect the DaisyChain OUT Port (HDB 15 female) of the master KVM Switch to the DaisyChain IN Port (HDB 15 male) of the second KVM switch. Connect the power adapter cord to the second switch to power it on.



Daisy-chain cable

Terminator

Step 4. If you have yet another switch to be daisy-chained, just repeat Step 3 to connect them. You can daisy-chain up to 16 units of KVM switches. Make sure all the powers of switches are off when adding or removing the KVM switches. Plug a terminator onto the Daisy-chain Out Port of the last KVM switch unit.

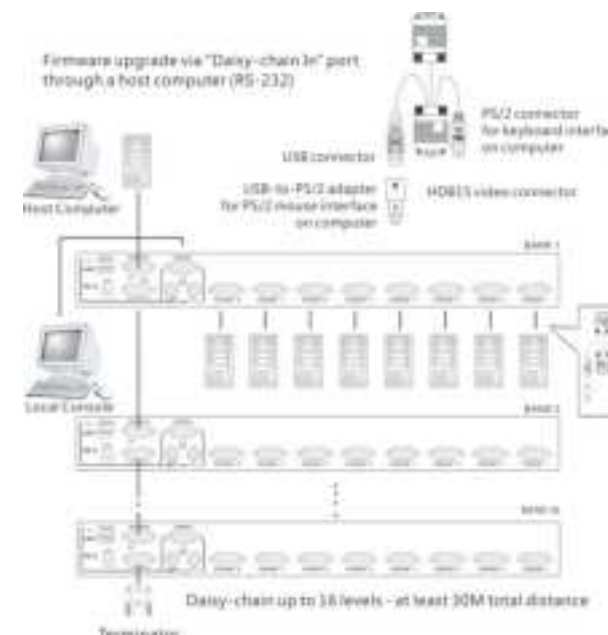
No Terminator required if only using a single unit.

Step 5. (Now your KVM switch or daisy-chained KVM Switches should have been powered-up and initialized....) Connect each of your computers to a computer port on the rear of the switch (es). You should use the special USB PS/2 KVM cable (with the USB-to-PS/2 adapter) for connection to a USB computer (PS/2 computer).



Special integrated USB & PS/2 KVM cable

The special KVM cable provides a PS/2 keyboard connector, a USB connector and a HDB video connector for computer connection. When connecting with a USB computer, just plug the USB connector to it and leave the PS/2 connector free. When connecting with a PS/2 computer, just add one USB-to-PS/2 adapter to the USB connector and you'll have a PS/2 connector for mouse. Do not connect both USB connector and PS/2 connector to a computer at the same time.



Step 6. Power up the connected computers. After your computer is powered up the keyboard and mouse will be recognized and now you can begin operating the switch.

OPERATION

There are three ways to select a specific computer (on a specific switch, if you have multiple daisy-chained KVM switches), using front-panel push button, hotkey sequence or OSD Menu.

Front-panel push buttons

The front-panel buttons let you have direct control over KVM switch operation and port switching. Simply press a button to switch to its corresponding port. See Quick Reference Sheet

Keyboard hotkeys

A keyboard hotkey sequence consists of at least three specific keystrokes: See Quick Reference Sheet

Hotkey sequence = [Scroll]* + [Scroll] * + Command key(s)

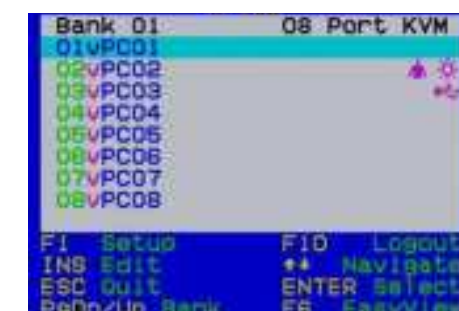
* User-definable = SCROLL LOCK, CAPS, F12 or NUM LOCK

The two consecutive CapsLK keystrokes should be pressed within 2 seconds and the command key(s) that follow should also be pressed within 2 seconds in likewise manner. Otherwise, the hotkey sequence will not be validated. For detailed Hotkey sequences and their corresponding functional commands. See Quick Reference Sheet.

OSD Control

To activate the OSD (On Screen Display) Menu, use the hotkey sequence:

Activate OSD = Scroll+ Scroll+ Space Bar
Deactivate OSD = ESC (Escape key)



Main OSD Menu

Main menu

Select computer: use **Up/Down** Arrow key to navigate, **PgDn/Up** to scroll page to view computers on different banks. Hit **Enter** to select.

Edit computer name: just hit **Insert** to edit and **Enter** to confirm.
F1: Next Page - Rotate through Main Page / Setup page / Status page

F10: Logout - Lock your keyboard and mouse for security. Password will be needed to log in.

F6: EasyView - Toggle select/de-select the highlighted computer to be included with the EasyView (EzV) scan group (by factory default, all computers are). Note that the "V" mark between the bank number and PC name is to indicate that it is included within the EzV scan group.



Setup Menu

Setup Menu

Auto logout: specify time for auto logout (00~99 min)

OSD timeout: specify duration for OSD menu to stay on screen

Autoscan period: specify time for autoscan period

Title bar: enable/ disable the title bar, and also specify its position. There are five title bar options:

Disable - Disable the title bar

Left – Title bar on left

Right – Title bar on right

Left ⊗ (Left Timeout) – Title bar on left for 5 seconds

Right ⊗ (Right Timeout) – Title bar on right for 5 seconds

Hotkey: specify the hotkey preceding sequence (**SCROLL LOCK, CAPS, F12 or NUM LOCK**)

Password: specify the password for access

Load Default: Load default setting to all KVM switches in the daisy-chain.

OSD Appearance: Specify whether you want to keep or hide the OSD menu after port switching operation.

Autoscan Mode: Select Autoscan modes. There are 4 modes for autoscan: ALL, Live, EzV (EasyView), EzV + Live.

ALL – Scan all computer ports

Live – Scan all computers with live power feed

EzV – Scan all computers joined into the EzV Group

EasyView + Live – Scan only those Live computers within the EzV group.

F2 Autoscan: Start Autoscan according to the autoscan mode you have specified.



Status Menu

On this page, the KVM system information of each daisy-chained unit will be shown.

For example:

Mean it's the first (01) bank of the KVM daisy-chain (can be up to a maximum of 16 units), and its firmware version date code is 230324. Model name listed here is , and the port number is eight (16) port.

Firmware Upgrade

This KVM Switch allows its user to upgrade firmware contents whenever is needed to enhance the compatibility to other devices or its functions and performance. For firmware upgrade procedure, please refer to Firmware Upgrade Operation Guide.

Technical Support

Please contact your local dealer for technical support issue.

FCC / CE STATEMENTS

FCC Statement: This equipment has been tested and found to comply with the regulations for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this User Guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case, the user will be required to correct the interference at his/her own expense.

CE Statement: This is a Class B product in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Quick Reference Sheet

Command	Hotkeys	OSD control ¹	Front-panel	Description
Select Computer	Standalone mode: [Scroll] [Scroll] + [y] + [z] (yz = port no.) ² Daisy-chained mode: [Scroll] + [Scroll] + [a] + [b] + [y] + [z] (ab = bank no. ; yz = port no.) ²	Cursor keys to navigate Enter to select	Press corresponding button yz on Switch ab for port yz on bank ab.	Select PC port
Next lower port	[Scroll] + [Scroll] + [Up Arrow]	Cursor keys to navigate Enter to select	Press corresponding button	Next lower PC port
Next higher port	[Scroll] + [Scroll] + [Down Arrow]	Cursor keys to navigate Enter to select	Press corresponding button	Next higher PC port
Next lower bank	[Scroll] + [Scroll] + [PgUp]	PgUp (w/ OSD Menu)	Press corresponding button on that switch	Select the next lower bank (switch) when with multiple daisy-chained units
Next higher bank	[Scroll] + [Scroll] + [PgDn]	PgDn (w/ OSD Menu)	Press corresponding button on that switch	Select the next higher bank (switch) when with multiple daisy-chained units
Autoscan Beep Sound On/Off	[Scroll] + [Scroll] + B	--	--	Toggle Beeper On/Off
Define Hotkey Preceding Sequence	[Scroll] + [Scroll] + H + CAPS, F12 or NUM LOCK]	Main Menu/Setup/Hotkey [SCROLL LOCK, CAPS, F12 or NUM LOCK]	--	Select the hotkey header
Load Default	--	Main Menu / Setup / Load Default	--	Restore all settings (Autologout, OSD timeout, etc.) on all KVM switch to the factory default * This will not affect password
OSD Appearance	--	Main Menu / Setup /OSD Appearance	--	Specify whether you want to keep or hide the OSD menu after port switching operation.
Change Computer Name	--	Cursor keys to navigate Enter (Ins) to select/edit	--	Change the computer name [max. length = 8 alphanumeric characters]
Reset Console Mouse	[Scroll] + [Scroll] + [End]	--	--	Reset console mouse when mouse is locked up
Show OSD Menu	[Scroll] + [Scroll] + [Spacebar]	--	--	Activate the OSD Menu on the console screen
Autoscan	[Scroll] + [Scroll] + S	--	--	Start Autoscan
Stop Autoscan	[Anykey]	--	Press any push button	Stop Autoscan during scan mode
Autoscan Period [5 ~ 10 ~ 95 seconds]	--	Main Menu / Setup / Autoscan period	--	Specify delay time within a range of 5 ~ 99 seconds [default = 10 sec]
Auto Logout Timeout Enable/Disable [0 ~ 99 min]	--	Main Menu / Setup / Auto Logout	--	Specify the time out for auto logout – screen /keyboard/mouse locked after timeout period for security. (default = 0 = disable)
OSD Menu Timeout [0 ~ 60 ~ 95 seconds]	--	Main Menu / Setup / OSD Timeout	--	Specify the timeout for OSD menu [default = 60 seconds; 0 = disable]
OSD Title Bar On/Off [ON/OFF]	[Scroll] + [Scroll] + T	--	--	Enable/disable the OSD Title Bar [default = ON]
OSD Title Bar Position [Left/Right]	--	Main Menu / Setup / Title Bar	--	Select the OSD title bar position on your screen
Setup Password ³ [Disable/Enable]	--	Main Menu / Setup / Setup Password	--	Enable/disable password protection [default == disable; password length <= 8 characters]
Last Known Active Port Restore [Disable/Enable]	[Scroll] + [Scroll] + L	--	--	Enable/disable the restore feature to the last known active port before a power loss. Two beeping sounds for confirmation (If beep sound is enabled). [default == disable]

Notes:

1. OSD Menu control is only available when the OSD menu is activated on the screen. To activate the OSD menu, use the hotkey sequence [Scroll] + [Scroll] + [Space Bar]. For detailed OSD operation reference, please refer to the User Guide. When OSD Menu is active, the mouse will be locked until the OSD Menu is off. For detailed OSD function, please refer to previous OSD Menu section.

2. Note that a, b, y and z each denotes a number key. (ab) = 01 ~ 16; (yz) = 01 ~ 08. For example, Scroll + Scroll + 03 + 06 is for bank 3 port 6. When using a single KVM Switch configuration, the default bank no. is 01, therefore hit Scroll + Scroll + 01 + 12 for port 12 for a single KVM Switch configuration.

3. The password is up to 8-character length. You should remember the password since it is required for access to your KVM switch once you enable the password protection for your KVM switch. However, if you forget the password and thus are blocked from KVM access, you should contact your local dealer for tech support.