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Please read this manual thoroughly and follow the **Installation** procedures to prevent any damage to the KVM Switch or any connecting device.

----- Introduction

Overview

One-Console KVM Switches

The KVM Switch allows you to access multiple computers from **one** keyboard, mouse and monitor. There is no interface card or software to configure. Installation is as easy as connecting cables between the KVM Switch and your computers. Operation is as simple as pressing push button, entering hot-key command and navigating through the user-friendly on-screen menu (available on models with OSD support). Depending on the model you have, it switches up to 4 (KNV104), 8 (KNV108) or 16 (KNV116D) IBM-compatible computers. The KVM Switch is independent of the computer operating system.

Two-Console KVM Switches

The advanced multi-access KVM Switches enable you to control multiple computers from **one out of two** locations, remote or local with two keyboards, mice and monitors. KNV2108D controls 8 computers and KNV2116D controls 16 computers.

On-Screen Display (OSD) Menu
For KNV104D, KNV108D, KNV116D
KNV2108D, KNV2116D models

For KVM Switches with built-in OSD control, you can name your computers, switch to a computer from a list, configure settings with easy-to-use menus, view the name of the selected computer on-screen with programmable time interval. The OSD menu displays the system status throughout operation.

Automatic Mouse Conversion

The KVM Switch enables you to connect computers with PS/2 or serial mouse ports (using adapters supplied with each KVM Switch) and control the computers from one PS/2 mouse. The KVM Switch automatically identifies the mouse and adapts proper mouse protocol.

High Video Quality

The KVM Switch supports VGA resolution up to 1920 x 1440 without any degradation. Advanced VGA circuit design guarantees smooth and flicker-free switching from one computer to the other with distance up to 100ft (30M)* at both Console and PC sides.

NOTE: This User's Manual is written for the following models.

KVM Switch Models					
No. of console	1	1	1	2	2
supported					
No. of PC supported	4	8	16	8	16
No OSD	KNV104	KNV108	-	-	-
OSD	KNV104D	KNV108D	KNV116D	KNV2108D	KNV2116D

Features

- ■Supports both PS/2 and serial mouse
- ■Cascade configuration expands system capability
- ■Auto-scan automatically selects computers sequentially
- ■Supports Microsoft IntelliMouse (Pro)
- ■Hot-key functions allow easy computer access
- Keyboard states automatically saved and restored when switching computers
- ■Operating system independent, transparent to all applications
- ■Plug and play system configuration
- ■Keyboard and mouse can be hot plugged at any time
- ■High VGA resolution 1920 x 1440
- ■DDC2B compatible
- ■Optional standard 19 inch rack mounting kit available
- Supports optional multimedia module for microphones and stereo speakers

Extra features for On-Screen Display model

- ■Assign computers with unique and meaningful names
- ■Identify and select computers by the names
- ■Programmable scan filters unused computers
- ■Store system settings and name entries to non-volatile memory
- ■Password security locks computer from unauthorized access
- ■Gain complete control with easy-to-use OSD interface

More features for multi-access models

- ■Manage multiple computers from two locations
- ■Different Console may have different type of mouse i.e. generic PS/2 mouse and scroll mouse
- ■Selectable User Timeout

^{*} Tested with high-quality UL2919-rated, low-loss and shielded cables.

Configurations

The KVM Switch has several models each supporting a different number of computers. For applications with a large number of computers, KVM Switches can be cascaded in a master/slave configuration to support even more computers.

Single KVM Switch Configuration

Connect a PS/2 keyboard, a PS/2 mouse and a VGA multi-sync monitor directly to the *Master*'s **CONSOLE** port. Then, connect multiple sets of keyboard, mouse and monitor cables to the "**PC** x" ports of the KVM Switch, as shown in figure 1.

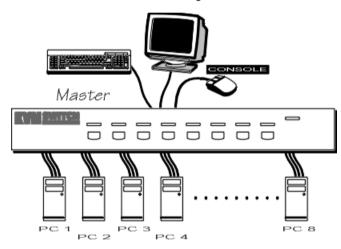


Figure 1: A single KVM Switch configuration

Cascade (Master/Slave) Configuration

You can connect a second level of one or more KVM Switches to "PC 1"~"PC 4" (KNV104) or "PC 1"~"PC 8" ports (KNV108 & KNV116D) of a *Master* unit. Cascade configuration expands system ability allowing you to select computers connected to the *Master* or *Slaves*. There is only one *Master*, which has a mouse, a keyboard and a monitor connected to its CONSOLE port directly operated by a user. Once connected, KVM Switches automatically configure themselves to either *Master* or *Slave*. *Slaves* of different models can be mixed in cascade configuration. [NOTE: Master must have equal or more PC ports than that of Slaves, i.e., if KNV108 is a master, KNV108 and KNV104 can be Slaves, but KNV116D can not.]

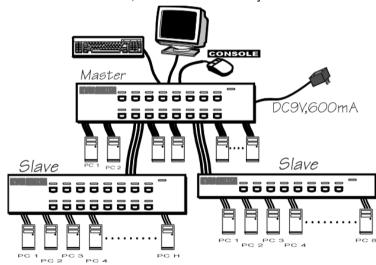


Figure 2: A cascade KVM Switch configuration

Throughout this manual, *Master* is the KVM Switch that has a physical keyboard, mouse and monitor connected to its **CONSOLE** port. *Slave* is a KVM Switch that has its **CONSOLE** port connected to a *Master*'s "**PC** x" port. *Slave* only exists in cascade configuration.

----- Installation

Device Connection

The monitor connected to the HD-DB-15 VGA port of a *Master* **CONSOLE** must be multisync capable of synchronizing with the computer's video signal. If you are uncertain about the monitor type, please consult the monitor user's manual. Connect a PS/2 mouse and a keyboard to the **CONSOLE** port marked with a mouse and a keyboard respectively as shown in figure 3. *[NOTE: Only a PS/2 mouse can be connected to the* **CONSOLE** *mouse port. The KVM Switch automatic mouse conversion system allows you to connect computers using serial mouse and control the computers from one PS/2 mouse.]*

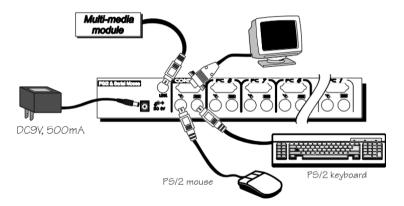


Figure 3: Master console connection

KVM Switch

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Determine the port address of each computer. For computers using PS/2 mouse, connect the computer's mouse and keyboard cables to the KVM Switch connectors marked with a mouse and keyboard respectively, as shown in figure 4.

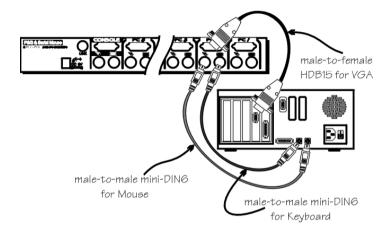


Figure 4: Master computer connection

For computers using serial mouse, connect the DB-9 to mini-DIN-6 adapter (supplied with the KVM Switch) to the computer mouse port, then use PS/2 cables to connect the mouse to KVM Switch, see figure 5. Connect the computer's monitor cable to the HD-DB-15 VGA connector. Repeat above steps for all remaining computers to be connected to the KVM Switch.

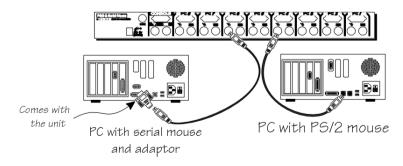


Figure 5: Adapter and serial mouse connection

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Initial Power-Up

Make sure all computers and KVM Switches are powered down during installation. You must power up the Master KVM Switch before turning on any other devices.

- For single KVM Switch: 1) Apply a power adapter to the Master. 2) Turn on computers.
- For cascade: 1) Apply a power adapter to the Master.
 2) Apply power adapters to all Slaves.
 3) Turn on computers.

Note: You may hot plug additional powered-down computer and *Slave* without turning any existing KVM Switch or computer off after initial power up.

Replace Master Console Devices

You can replace a faulty keyboard or mouse of the *Master* **CONSOLE** port at any time without powering down the Master, as long as your computers are booted with proper device driver for the new device. Should you encounter any difficulty, just activate **K/M RESET** by holding both front-panel '1' and '2' push buttons down for 2 seconds.

Adhesive Rubber Foot

For desk-top operation, you may stick the four round rubber feet (supplied with the unit) to the bottom of the KVM Switch. NOTE: Do not use the rubber feet for rack mount operation. Give the rubber feet a firm press to prevent them from getting loose.

Figure 7 shows how to assemble rack cable support then screw it to **Optional Rack Mount Accessories** the back and inside the rack cabinet vertical post.

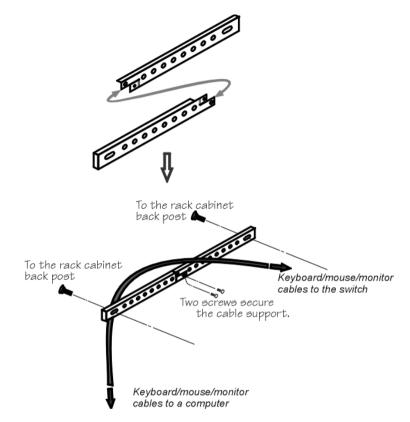


Figure 7: Assembling rack cable support

Then, keyboard/mouse/monitor cables can be routed over the cable support. You can use plastic cable ties to bundle and label the cables through the rack cable support holes for easy identification.

Figure 6 shows how to attach optional mounting brackets to the KVM Switch unit for standard 19-inch rack cabinet.

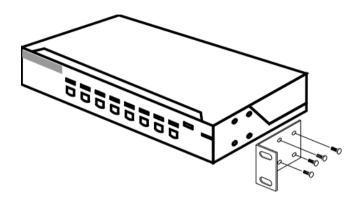


Figure 6: Attaching rack mount bracket

Multimedia Module

An optional multimedia A/V module (MAV108) is used to select microphone, speaker and monitor signals from one out of eight or 16 computers. The A/V module is connected to the **LINK** port on the rear panel via an mini-DIN-8 connector. When a computer is selected, the microphone signal is directed to that computer, speaker and monitor signal source from the same computer.

As an OSD option, the A/V module may select a computer different from that of the KVM system. There are two options in *Audio Stick* function (<F4>:More\Audio Stick). When set to '**On**', A/V module selection follows computer selection. When set to '**Off**', A/V module selection stops following computer selection. It is useful if you want to listen to one particular computer's audio signal while selecting other computers during operation.

With extra VGA ports, the A/V module enables you to view multiple monitors from one PC at the same time. Now you can extend your Windows desktop for all your computers and switch accordingly.

----- Operation

Front Panel Push Buttons

You may select a computer by pressing the front panel push button directly, by issuing hot-key commands or by activating the OSD window (for models with OSD support). The front panel indicator changes to reflect the computer port selected (red) and whether the port is connected to a powered computer (green). The indicator flashes red when it is in either *Auto Scan* or *Manual Scan* mode.

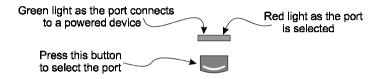


Figure 8: Front panel indictor

Some computers support 'keyboard/mouse power up' function, i.e., press certain keys or mouse buttons to startup the computers. Their corresponding green front indicators lit all the time even if the computers are 'off'.

■ K/M RESET

K/M RESET solves most problems developed by keyboard, mouse, device replacement or change of configuration. Press down both the front-panel number **1** and **2** push buttons for 2 seconds to re-configure the whole system without turning either the KVM Switch or any computer off.

■ AUTO SCAN

The KVM Switch provides an easy to use feature to start *Auto Scan*ning. You can press down both the front-panel number **7** and **8** buttons for 2 seconds to start Auto Scanning.

OSD (On-Screen-Display) Operation

KNV104D,KNV108D,KNV116D,KNV2108D,KNV2116D

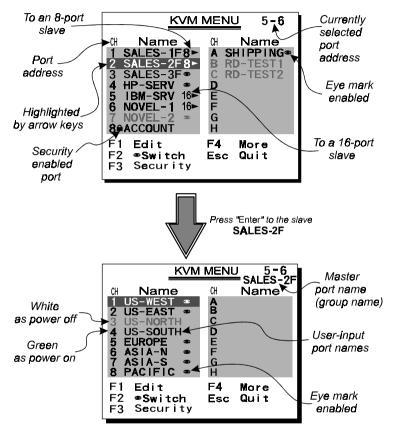


Figure 9: OSD screen illustration

By hitting the left <CTRL> key twice within two seconds, you may see the 'Hotkey Menu' if it is enabled (an OSD option). Or, by hitting the left <CTRL> key three times within two seconds, you will see a 'KVM MENU' screen showing a list of the computers with corresponding port addresses, names and status, see figure 9.

The port address of the currently selected computer is displayed in 14

red, same as the front indicator, to the right of the OSD title 'KVM MENU'. The color of a device name is green if it has power and is ready for selection (its corresponding front panel indicator is green), or the color is white as it has no power. OSD menu updates the color when it is activated. Use the <UP> and <DOWN> arrow keys to highlight a computer and the <ENTER> key to select it. Or, you may press <ESCAPE> to exit OSD and remove the OSD menu from the display; the status window returns to the display and indicates the currently selected computer or operating status.

KVM Switch

A triangle mark (•) to the right of a name indicates the port is cascaded to a *Slave*; the number at the left of the triangle mark shows the number of ports the *Slave* has, i.e. 8 • for KNV108. <ENTER> key brings you one level down and another screen pops up listing the names of the computers on that *Slave*. The name of the *Slave* will be shown at the upper right corner of the OSD menu. It is useful to group computers and still be able to see the group name.

An eye mark (9) to the right of a name indicating the computer is selected to be monitored in Scan mode. In OSD, this mark can be switched on or off by function key <F2>.

Press <ESCAPE> key to exit OSD and to return to the selected computer; the computer name is also shown on the screen.

- <u>Function key <F1></u>:To edit name entry of a computer or a *Slave*. First, use the <UP> and <DOWN> arrow keys to highlight a port then press <F1> followed by name entry. Valid characters are 'A'~'Z', '0'~'9' and the dash character. Lowercase letters are converted to uppercase ones. Press <BACKSPACE> to delete a letter one at a time. Non-volatile memory stores all name entries until you change, even if the unit is powered down.
- Function key <F2>: To switch the eye mark (③) of a computer on or off. First, use the <UP> and <DOWN> arrow keys to highlight it, then press <F2> to switch its eye mark on or

off. If Scan Type is 'Ready PC +®', only the power-on and eye mark selected computers will be displayed sequentially in Scan mode.

● <u>Function key <F3></u>: To lock a device (a computer or a *Slave*) from unauthorized access, use *Security*. *Security* is effective for only one device (a computer or a *Slave*). To lock a device, use the <UP> and <DOWN> arrow keys to highlight it, then press <F3>. Now, enter up to 4 characters ('A'~'Z', '0'~'9, '-') followed by <ENTER> as new password. A Security-enabled device is marked with a lock (ⓐ) following its port number. To permanently disable the *security* function from a locked device, highlight it, press <F3> then enter the password.

If you want to access the locked device temporarily, simply highlight it and press <ENTER>, the OSD will ask you for the password. After entering correct password, you are allowed to use the device. This device is automatically re-locked once you switch to another one. During Scan mode, OSD skips the security-enabled device. NOTE: Only one device (a computer or a *Slave*) can be locked by this function at a time.

If you forget the password, the only way to permanently disable the security function is to remove all possible power sources from the master KVM Switch. You need to turn off all computers and unplug all power adapters, then restart everything.

● <u>Function key <F4></u>: More functions are available by hitting <F4>. A new screen pops up displaying more functions as described below. Most of them are marked with a triangle () indicating there are options to choose from. Using the <UP> and <DOWN> arrow keys, select the functions and press <ENTER>. Available options will be shown in the middle of the screen. Again, using the <UP> and <DOWN> arrow keys to view options then press <ENTER> to select it. You can press <ESCAPE> to exit at any time.

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KVM Switch

■ Auto Scan

In this mode, the KVM Switch automatically switches from one power-on computer to the next sequentially in a fixed interval. During *Auto Scan* mode, the OSD displays the name of the selected computer. When *Auto Scan* detects any keyboard or mouse activity, it suspends the scanning till activity stops; it then resumes with the next computer in sequence. To abort the *Auto Scan* mode, press the left <CTRL> twice, or, press any front button. *Scan Type* and *Scan Rate* set the scan pattern. *Scan Type* (<F4>:More\Scan Type) determines if scanned computers must also be eye mark selected. *Scan Rate* (<F4>:More\Scan Rate) sets the display interval when a computer is selected before selecting the next one.

■ Manual Scan

Scan through power-on computers one by one by keyboard control. Scan Type (<F4>:More\Scan Type) determines if scanned computers must also be eye mark selected. Press the up arrow key (†) to select the previous computer and the down arrow key (†) to select the next computer. Press any other key to abort the Manual Scan mode.

Audio Stick

An optional multimedia module can be LINKed to the back of each KVM Switch for selecting microphone and stereo speaker signals. There are two options for *Audio Stick*: **ON** and **Off**. When set to '**On**', audio selection follows computer selection. When set to '**Off**', audio selection stops following computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers. The non-volatile memory stores the *Audio Stick* setting.

■ Scan Type

Ready PC + : In Scan mode, scan through power-on and eye mark selected computers.

Ready PC: In Scan mode, scan through power-on

computers.

The non-volatile memory stores the Scan Type setting.

■ Scan Rate

Sets the duration of a computer displayed in *Auto Scan* mode. The options are **3 seconds**, **8 seconds**, **15 seconds and 30 seconds**. The non-volatile memory stores the *Scan Rate* setting.

■ Keyboard Speed

The KVM Switch offers keyboard typematic setting that overrides the similar settings in BIOS and in Windows. Available speed options are **Low**, **Middle**, **Fast** and **Faster** as 10, 15, 20 and 30 characters/sec respectively.

The non-volatile memory stores the Keyboard Speed setting.

■ Hotkey Menu

When you hit the left <CTRL> key twice within two seconds, the "Hotkey Menu" appears displaying a list of hot-key commands if the option is **On**. The 'Hotkey Menu' can be turned **Off** if you prefer not to see it when the left <CTRL> key is hit twice.

The non-volatile memory stores the Hotkey Menu setting.

■ CH Display

Auto Off: After you select a computer, the port address and name of the computer will appear on the screen for 3 seconds then disappear automatically.

Always On: The port address and name of a selected computer and/or OSD status displayed on the screen all the time.

The non-volatile memory stores the CH Display setting.

Position

The position of the selected computer name and/or OSD status displayed on screen during operation. The actual display position shifts due to different VGA resolution, the higher the resolution the higher the display position. The non-volatile memory stores the Position setting.

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KVM Switch

UL as Upper Left, UR as Upper Right, LL as Lower Left, LR as Lower Right. MI as MIddle.

• ESC: To exit the OSD, press the <ESCAPE> key.

Hot-key commands

Hot-key command is a short keyboard sequence to select a computer, to activate computer scan, etc. The KVM Switch interprets keystrokes for hot-keys all the time. A hot-key sequence starts with two left <CTRL> keystrokes followed by one or two more keystrokes. A built-in buzzer generates a high-pitch beep for correct hot-key command; otherwise, one low-pitch beep for error and the bad key sequence will not be forwarded to the selected computer.

The short form hot-key menu can be turned on as an OSD function (<F4>:more\Hotkey Menu) every time the left <CTRL> key is pressed twice.

- **L-CTRL**: is the <CTRL> key located at the left side of the keyboard.
- 1~8/A~H: are the number keys '1' ~ '8' at the upper row of the keyboard and character keys 'A' ~ 'H' case insensitive. Do not use the keypad at the right of the keyboard.
- To select a computer by hot-key command, you must know its port address, which is determined by the KVM Switch connection. For a computer connected to a *Master*, its address is represented by the PC port label (1~8 or A~H). For a computer connected to a *Slave*, two characters represent its address. The first character is the port address of the *Master* unit (1~8) and the second one is the port address of the *Slave* (1~8 or A~H). Please note that only *Master*'s 'PC 1' ~'PC 8' ports can be connected to a *Slave*.

Left Ctrl + left Ctrl + 7

Selects a computer connected to port 7 of the Master.

Left Ctrl + left Ctrl + 6 + C

Selects a computer connected to port C of a *Slave* connected to port 6 of the *Master*.

■ To start Auto Scan, automatically scan power-on computers one by one at a fixed interval:

left Ctrl + left Ctrl + F 1

When Auto Scan detects any keyboard or mouse activity, it

KVM Switch

next computer in sequence. The length of the *Auto Scan* interval (*Scan Rate*) is adjustable, see below. To abort the *Auto Scan* mode, press the left *Ctrl* key twice.

Note: For OSD models, *Scan Type* determines whether eye mark is necessary during *Auto Scan*.

Manual Scan enables you to manually switch back and forth between <u>power-on</u> computers.

left Ctrl + left Ctrl + F2

Press ↑ or ↓ to select the previous or the next computer in sequence. And, press any other key to abort the *Manual Scan*. Note: For OSD models, *Scan Type* determines whether eye mark is necessary during *Manual Scan*.

■ To adjust *Scan Rate* which sets the duration before switching to the next computer in *Auto Scan*:

left Ctrl + left Ctrl + F3

The KVM Switch sends one to four beeps indicating scan interval of **3**, **8**, **15** and **30** seconds respectively.

To adjust keyboard typematic rate (characters/sec), this setting over-rides that of BIOS and any operating system:

left Ctrl + left Ctrl + F4

The KVM Switch generates 1 to 4 beeps corresponding to 10, 15, 20 and 30 characters/sec respectively.

Audio Stick

An optional multimedia module can be LINKed to the back of each KVM Switch for selecting microphone and stereo speaker signals. There are two options for *Audio Stick*: **ON** and **Off**. When set to '**On**', audio selection follows computer selection. When set to '**Off**', audio selection stops following computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers.

left **Ctrl** + left **Ctrl** + **F5**

The KVM Switch generates 1 or 2 beeps corresponding to *On* and *Off* respectively.

----- Cascade Configuration

Connection

Before connecting a device (a computer or a Slave) to the Master under power, you must turn off the device. The Master must have equal or more 'PC x' ports than that of the Slave, i.e., if KNV108 is the master, KNV108 and KNV104 can be Slaves, but KNV116D can not.

The ports labeled "PC 1"~"PC 8" can be connected to either a computer or a *Slave*'s CONSOLE port, as shown in figure 10. The ports "PC A"~"PC H" can only be connected to a computer. A power adapter with DC 9V/500mA output rating must be connected to the *Master*.

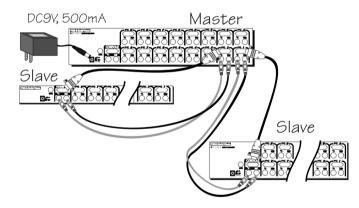


Figure 10: Slave console connection

The maximum number of computers controlled by a master/slave configuration with all KNV104s is 16 with 4 *Slaves* and each *Slave* connects to 4 computers, see figure 11. For an all KNV108s configuration, the number is 64 with 8 *Slaves* and each *Slave* connects to 8 computers, see figure 12. For an all KNV116D configuration, the number is 136, see figure 13. The *Master* KNV116D connects to 8 Slaves and 8 computers, and each *Slave* connects to 16 computers.

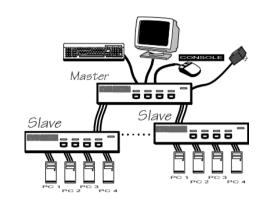


Figure 11: Cascaded 4-port KVM Switches

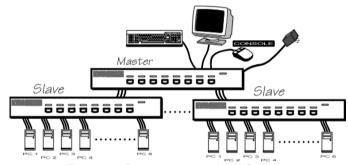


Figure 12: Cascaded 8-port KVM Switches

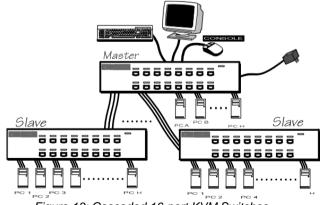


Figure 13: Cascaded 16-port KVM Switches

For OSD model:

After connection completes, you should re-activate the OSD menu to check if the *Master* recognizes the *Slaves*. A triangle mark (▶) is placed to the right of the port name indicating the port is connected to a *Slave not* a computer. A number to the left of the triangle mark indicates the *Slave* model, i.e. 8▶ for KNV108 or KNV108D.

Change Configuration while Running

Devices at any 'PC x' port can be changed at any time after initial power-up. If you change any one of the "PC 1" to "PC 8" ports connection from a computer to a *Slave* or vice versa, or replace the devices of a port; the OSD will update this change the next time it is activated. [NOTE: Any new device, a computer or a Slave, must be turned off before it is connected to the Master.]

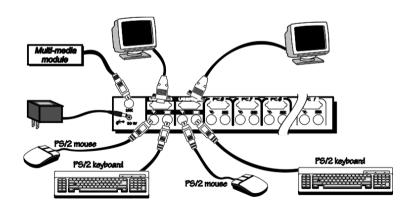
-----Multi-access KVM Switch

Overview

The advanced multi-access KNV2108D and KNV2116D have all the features of KNV108D and KNV116D respectively. Both models have two Console ports facilitate you to access multiple computers from *one out of two* locations, local and remote. Thanks to the high-drive circuit design, you may connect high quality cables at Console and PC sides for up to 100ft (30M), a definite plus for server room applications. Now you can access all computers either in the server room when you have to physically access the computers such as software upgrade, or away from the server room for everyday use.

Connections

Connect two keyboards, mice and monitors to the two **CONSOLE** ports. The built-in PS/2 mouse signal translation enables you to connect PS/2 mice of different type to the **CONSOLE** ports, i.e., a generic PS/2 mouse for one **CONSOLE** and a scroll mouse for another.



Operation

On power up, the KNV2108D and KNV2116D are in Idle mode broadcasting VGA signal from the selected computer and detecting for keyboard and mouse activity. User LEDs (marked with reverse white A and B) are both red indicating the KVM Switch is not in use.

When keyboard or mouse activity is detected at one **CONSOLE**, the KVM Switch immediately disables the other **CONSOLE** from accessing the computer. Only one User LED, at the front panel, remains lit indicating the KVM Switch is under user operation. In the mean time, keyboard LEDs (Num/Caps/Scroll Lock) of the other **CONSOLE** start to flash as its access is denied and the monitor is blocked from VGA signal for security reason. After the user has finished his operation for a period of time (i.e., *User Timeout*), the multi-access KVM Switch returns to Idle mode. *User Timeout* has four options, **5 sec**, **30 sec**, **60 sec** and **HOLD**. Select **HOLD** when you plan to access the KVM Switch for a long time. Pressing the <Scroll Lock> twice forces the KVM Switch return to Idle mode immediately regardless of the *User Timeout* setting.

The *User Timeout* is available in the OSD menu by pressing the Function key <F4>, under the sub-menu **More**. Note: *Keyboard Speed* option is not available for multi-access models.

Configuration

To expand the number of computers under control, you may connect **CONSOLE** port of another KVM Switch to "**PC 1**" ~ "**PC 8**" port. Refer to the chapter *Cascade Configuration* for more detail. There are rules to apply for Master/Slave configuration. When KNV2108D is a Master, its slave includes KNV104, KNV104D, KNV108 and KNV108D. When KNV2116D is a Master, its slave includes all the above and KNV116D. These multi-access KVM Switches already come with OSD menu, their Slaves do not have to be OSD equipped.

----- Appendices

Specifications:

Specifications	KNV104 KNV104D	KNV108 KNV108D	KNV116D	KNV2108D	KNV2116D
User port number	1	1	1	2	2
Computer port number	4	8	16	8	16
Cascade control PC number	<i>Up to 16*</i>	Up to 64*	Up to 136*	Up to 64*	Up to 136*
On-screen display (OSD)	KNV104D	KNV108D	D Yes		
Front panel button control	4	8	16	8	16
Hot plug-and-play	Yes				
Hot-key control	Yes				
Rack-mount kit	RMK04	RMK08	RMK16	RMK08	RMK16
Automatic scan interval	3, 8, 15, 30 seconds				
Programmable scan patter n	can pattern KNV104D KNV108D Yes				
Cable length (Max)	30M (100ft) at CONSOLE				
	30M (100ft) at PC ports				
VGA	1600 x 1200, DDC2B				
keyboard	PS/2				
Computer mouse connector	PS/2, serial (with adapter)				
monitor	HD-DB-15 male				
keyboard	PS/2				
Console mouse connector	PS/2				
monitor	HD-DB-15 female				
H x W x D (mm)	44x220x130	44x436x180	88x436x220	44x436x180	88x436x220
(in.)	1.7x8.7x5.1	1.7x17.2x7.0	3.5x17.2x8.7	1.7x17.2x7.0	3.5x17.2x8.7
size	Compact	1U	2U	1U	2U
Power supply (min)	9V DC, 500mA				

^{*} Cascaded with KVM Switches supporting the same number of PC ports. You can mix different models in cascade applications.

Troubleshooting:

Ensure that all cables are well seated. Check that keyboard/mouse cables are not swapped. Label and bundle the cables for each computer to avoid confusion when connected to the KVM Switch.

Symptom	Possible causes	Recommended solutions
No OSD screen	.No power to KVM Switch	.Establish power by turning on
		computers, wait, press left CTRL
	Loose monitor	keys several times.
	connection	.Reconnect monitor
	Monitor not multi-sync	.Use multi-sync monitor
	Loose keyboard	.Make sure keyboard cables are
on boot	connection	Well seated
Master/slave		.Make sure slave's CONSOLE is
does not work	procedures	connected to Master's PC 1~ PC
		8 port
		Press and hold the 1 and 2
		push buttons to initiate K/M reset
		Remove any possible power
		supply to the slave (unplug all
		cables), before connecting it to
		the Master
	.The computer was in	.Press both SHIFT keys
strokes shifted	shifted state when last	
	switched	
The ↑ and ↓	All PCs are off or only	.Turn computers on.
	one PC is turned on.	
work in Manual		.Press any other key to abort
Scan	power-on computers only	
		Set proper Scan type in OSD
		and determine which PCs are
1		eye mark selected, do it in OSD.
	.All PCs are off or only	
not switch PC		Set proper Scan Type in OSD
		and determine which PCs are
		eye mark selected, do it in OSD.
		Press left CTRL key twice to
	selected but no power-up	
indicator		Press any front button to select
flashes	in OSD.	a PC, and Auto Scan stops.

Double OSD images at cascade configuration	.Improper slave connection procedure.	.Press push buttons 1 and 2 down for 2 seconds to activate K/M RESET Remove any possible power supply to the <i>Slave</i> (unplug all cables), before connecting it to the <i>Master</i> .
not at the	resolution and its size varies due to computer	.Use <f4>:More\Position to select UL or UR. OSD menu may appear near the middle of the screen when LL or LR is selected.</f4>
Computer can not use serial mouse	.Loose mouse adapter .Incorrect mouse adapter	.Secure the mouse adapter to computer's COM port .Use only the mouse adapter comes with the unit
Can not select a computer connected to a slave	connection .Improper slave unit connection	.Only Master ports PC1~PC8 can be connected to slavesConnect slave CONSOLE port to PC1~PC8 ports of the Master .Only one level of slave units is allowed. Pop up OSD again to check if Master recognizes the slave connection. Look for triangle mark and the number before it.
The KVM Switch fails to function occasionally.		.Make sure a power adapter with minimum of 9V 500mA output rating is firmly connected to the power jack.

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Limited Warranty

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