

KNV104 / KNV104D KNV108 / KNV108D KNV116D KNV2108D KNV2116D

4/8/16 port KVM switch

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

# SYSTEM REQUIREMENT

and adapters (if necessary) before attempting to connect anything to the NovaView. Due to the variety of computer peripheral ports, you must have the right cables

Cables	KNV104 KNV104D	KNV108 KNV108D	KNV116D
PS/2 (mouse/keyboard) cable (mini-DIN-6 male-to-male) Standard VCA cable (HD-DR-15 male-to-female)	82	91x	x32
	ŧ.	XO	DIX
PS/2 mouse	×	<b>⊼</b>	×
Adapter			
<ul> <li>DIN-5 female to mini-DIN-6 male adapter for your AT keyboard (not necessary if you have a PS/2 keyboard).</li> </ul>	board (not	necessary if	you have
<ul> <li>DIN-5 male to mini-DIN-6 female adapter for each computer using AT keyboard (not necessary if the computer has a PS/2 keyboard port).</li> </ul>	omputer u	sing AT keyt	board (not

and VCCI rules This device is tested and complies with Part 15 of FCC/class B,

# ----- Introduction

## Overview

#### One-Console NovaView Switches

The NovaView allows you to access multiple computers from **one** key board, mouse and monitor. There is no interface card or software to configure. Installation is as easy as connecting cables between the NovaView 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 (KNV116) IBM-compatible computers. The NovaView is independent of the computer operating system.

## Two-Console NovaView Switches

The adv anced multi-access NovaView Switches enable you to control multiple computers from **two** different locations, remote and 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 NovaViews 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 displays the system status throughout operation.

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## Automatic Mouse Conversion

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

# High Video Quality

Nov a View supports VGA resolution up to  $1920 \times 1440$  without any degradation. Advanced VGA circuit design guarantees smooth and flicker-free switching from one computer to the other with distance up to  $100 \text{ft} (30 \text{M})^*$  at both Console and PC sides.

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

NovaView 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

# \* Tested with high-quality UL2919-rated, low-loss and shielded cables.

#### **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
- Key board states automatically saved and restored when switching computers
- ■Operating system independent, transparent to all applications
- ■Plug and play system configuration
- ■Key board 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

# **Configurations**

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

# Single NovaView Configuration

Connect a PS/2 key board, 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 NovaView, as shown in figure 1.

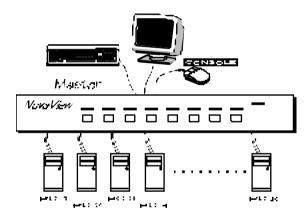


Figure 1: A single NovaView configuration

# Cascade (Master/Slave) Configuration

You can connect a second level of one or more NovaViews to "PC 1"~"PC 4" (KNV104) or "PC 1"~"PC 8" ports (KNV108 & KNV116) 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, NovaViews automatically configure themselves to either Master or Slave. Slaves of different NovaView 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 KNV116 can not.]

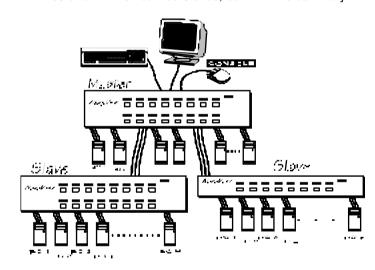


Figure 2: A cascade NovaView configuration

Throughout this manual, *Master* is the NovaView that has a physical key board, mouse and monitor connected to its **CONSOLE** port. Slave is a NovaView 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 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 key board to the **CONSOLE** port marked with a mouse and a key board respectively as shown in figure 3. [NOTE: Only a PS/2 mouse can be connected to the **CONSOLE** mouse port. The NovaView's automatic mouse conversion system allows you to connect computers using serial mouse and control the computers from one PS/2 mouse.]

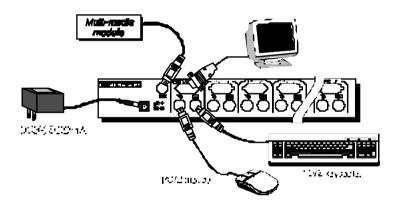


Figure 3: Master console connection

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Determine the channel address of each computer. For computers using PS/2 mouse, connect the computer's mouse and key board cables to the Nov aView's connectors marked with a mouse and key board respectively, as shown in figure 4.

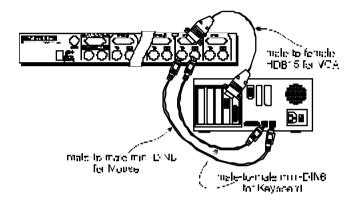


Figure 4: Master computer connection

For computers using serial mouse, connect the DB-9 to mini-DIN-6 adapter (supplied with the NovaView) to the computer mouse port, then use PS/2 cables to connect the mouse to NovaView, 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 NovaView.

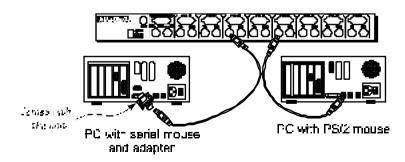


Figure 5: Adapter and serial mouse connection

# **Initial Power-Up**

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

- For single NovaView: 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 NovaView or computer off after initial power up.

## Replace Master Console Devices

You can replace a faulty key board 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 NovaView. NOTE: Do not use the rubber feet for rack mount operation.

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# **Optional Rack Mount Accessories**

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

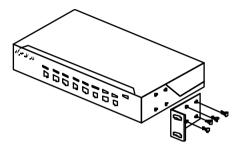


Figure 6: Attaching rack mount bracket

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

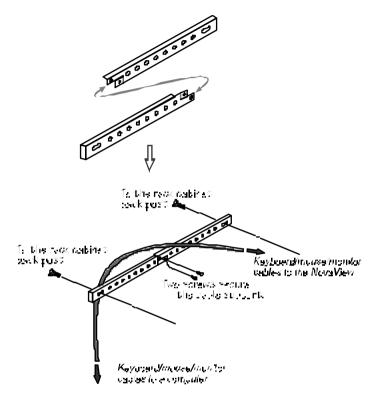


Figure 7: Assembling rack cable support

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.

#### **Multimedia Module**

An optional multimedia AV module (MAV108) is used to select microphone, speaker and monitor signals from one out of eight computers. The AV 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 AV module may select a computer different from that of the NovaView system. There are two options in *Audio Stick* function (<a href="#f4">F4</a>>: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.

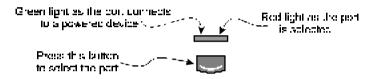


Figure 8: Front panel indictor

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 NovaView Switch or any computer off.

#### AUTO SCAN

NovaView 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

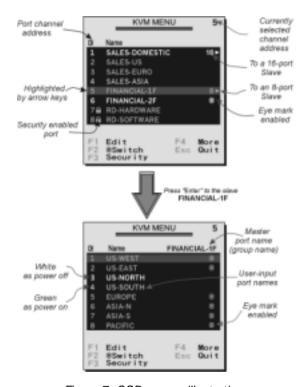


Figure 7: OSD screen illustration

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 numbers, names and status, see figure 7. The OSD menu of a 4-port KVM switch looks slightly different.

The port number of the currently selected computer is displayed in red, same as the front indicator, at the right corner of the OSD menu.

The color of a device name is green if it has power and is ready for operation, or the color is white as it has no power. OSD menu updates the color when it is activated. The <PageUp> and <PageDown> keys can be used to view 8 other computers at a time; not effective for a 4-port KVM switch.

Use the "↑", "↓", "1" ~ "8" or "A" ~ "H" 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. For a 4-port KVM switch, you can only use the "↑" and "↓" arrow keys to highlight a computer.

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 an 8-port switch. <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 (③) 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.

● Function key <F1>: To edit name entry of a computer or a Slave with up to 14 characters. For 4-port KVM switches, the maximum number of character is 8. First, 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.

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● 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 +③', only the power-on and

eye mark selected computers will be displayed sequentially in Scan mode.

● <u>Function key <F3></u>: To lock a computer from unauthorized access. To lock a device, 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 (a) following its port number. To permanently disable the security function from a locked device, highlight it, press <F3> then enter the password. For a 4-port KVM switch, only one port can be locked by 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 the correct password, you are allowed to use the device. This device is automatically re-locked once you switch to another port. During Scan mode, OSD skips the password-protected devices.

If you forget the password, the only way to permanently erase all the passwords is to:

Press and hold the front panel buttons "1" and "2", then hold "7" and "8". Release "7" and "8", then release "1" and "2".

For 4-port KVM switches: 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 the power adapter, then restart everything.

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.

#### Auto Scan

In this mode, the Integra 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 key board 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 key board control. can Type (<F4>:More\Scan Type) determines if scanned computers must also be eye mark selected. Press the up arrow key ( $\uparrow$ ) to select the previous computer and the down arrow key ( $\downarrow$ ) 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 Integra KVM switch for selecting microphone and stereo speaker signals. There are two

CH Display
Auto Off: After you select a computer, the port number

and name of the computer will appear on the screen for 3 seconds then disappear automatically. Always On: The port number 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.

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#### Position

The position of the selected computer name and/or OSD status display ed 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.

Upper Left (UL), Upper Right (UR), Lower Left (LL), Lower Right (LR). Middle (MI),

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

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.

● Only: In Scan mode, scan through any ● selected computer regardless of computer power status. This option is not available for 4-port KVM switches. 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

Integra offers key board ty pematic 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 Key board 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.

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When Auto Scan detects any key board or mouse activity, it suspends the scanning till activity stops; it then resumes with the 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 NovaView 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 NovaView 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 NovaView 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 Nov a View generates 1 or 2 beeps corresponding to **On** and **Off** respectively.

# **Hot-key commands**

Hot-key command is a short key board sequence to select a computer, to activate computer scan, etc. NovaView 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 key board.

1~8/A~H: are the number keys '1' ~ '8' at the upper row of the key board 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 channel address, which is determined by the NovaView 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 channel address of the *Master* unit (1~8) and the second one is the channel 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

# ----- 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 KNV116 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.

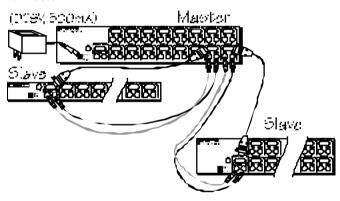


Figure 10: Slave console connection

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 KNV116 configuration, the number is 136, see figure 13. The Master KNV116 connects to 8 Slaves and 8 computers, and each Slave connects to 16 computers.

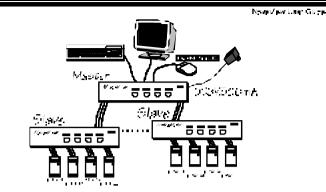


Figure 11: Cascaded 4-port NovaViews

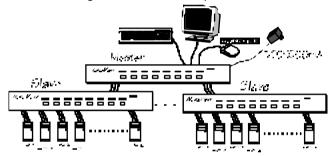


Figure 12: Cascaded 8-port NovaViews

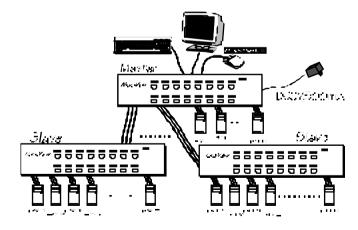


Figure 13: Cascaded 16-port NovaViews

#### 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 channel 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.]

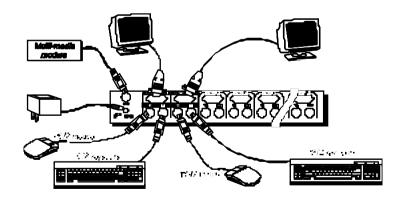
# ----- Multi-access NovaView KNV2108D & KNV2116D

#### 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 two different 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 key boards, 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  $\Delta$  and  $\Delta$ ) are both red indicating the NovaView is not in use.

When key board or mouse activity is detected at one CONSOLE, the NovaView immediately disables the other CONSOLE from accessing the computer. Only one User LED, at the front panel, remains lit indicating the NovaView is under user operation. In the mean time, key board 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 NovaView 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 NovaView for a long time. Pressing the <Scroll Lock> twice forces the NovaView 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 NovaView 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 NovaView 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	Up to 16*	Up to 64*	Up to 136*	Up to 64*	Up to 136*
On-screen display (OSD)	KNV104D KNV108D Yes				
Front panel button control	<u> </u>		8	16	
Hot plug-and-play			Yes		
Hot-key control			Yes		
Rack-mount kit	RMK04	RMK08	RMK16	RMK08	RMK16
Automatic scan interval		3, 8	3, 15, 30 seco	nds	
Programmable scan pattern	KNV104D KNV108D Yes				
Cable length (Max)		30M (	100ft) at CON	ISOLE	
	30M (100ft) at PC ports				
VGA	1920 x 1440, DDC2B				
keyboard	PS/2				
Computer mouse connector	or PS/2, serial (with adapter)				
monitor		H	HD-DB-15 mai	le	
keyboard	PS/2				
Console mouse connector					
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.	3.5x17.2x8.7
size	Compact	1U	2U	1U	2U
Power supply (min)	9V DC, 500mA				

<sup>\*</sup> Cascaded with NovaView Switches supporting the same number of PC ports. You can mix different models in cascade applications.

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# **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 NovaView.

Symptom	Possible causes	Recommended solutions
No OSD screen	No power to NovaView	Establish power by turning on computers, wait, press left CTRL
	Loose monitor connection Monitor not multi-sync	keys several times.
	World not mant-sync	Reconnect monitor
		Use multi-sync monitor
Keyboard error on boot	Loose keyboard connection	Make sure keyboard cables are Well seated
Master/slave does not work	Improper installation procedures	Make sure slave's CONSOLE is connected to <i>Master's</i> 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 <i>Master</i>
Keyboard strokes shifted	The computer was in shifted state when last switched	Press both SHIFT keys
The ↑ and ↓ kevs do not	All PCs are off or only one PC is turned on. Scan	
- )		Press any other key to abort Manual Scan mode.
	Scan type is eye mark selected but no PC is eye mark selected in OSD.	Set proper Scan type in OSD and determine which PCs are eye mark selected, do it in OSD.
	All PCs are off or only one PC is turned on. Scan	·
	mode works for power-on computers only  Scan type is eye mark	and determine which PCs are eye mark selected, do it in OSD.
flashes		Press left CTRL key twice to
		Press any front button to select a PC, and <i>Auto Scan</i> 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> .
OSD menu is not at the proper position		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	.Improper Master unit connection .Improper slave unit connection .Too many levels of slaves	Only Master ports PC 1~PC8 can be connected to slaves.  Connect 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 NovaView fails to function occasionally	Computers do not supply enough power.	Make sure a power adapter with minimum of 9V 500mA output rating is firmly connected to the power jack

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