

4, 8 & 16 PORT KVM SWITCH

User Manual
NS-431D
NS-831D
NS-1631D



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

Introduction

Overview

One-Console NewStar Switches

The NewStar 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 NewStar 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 (NS431D), 8 (NS831D) or 16 (NS1631D) IBM-compatible computers. The NewStar KVM Switch is independent of the computer operating system.

On-Screen Display (OSD) Menu

For NS431D, NS831D and NS1631D models

For NewStar 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 displays the system status throughout operation.

Automatic Mouse Conversion

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

High Video Quality

NewStar 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.

NewStar KVM Switch Switch Models			
No. of console supported	1	1	1
No. of PC supported	4	8	16
OSD	NS431D	NS831D	NS1631D

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
- 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

Configurations

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

Single NewStar 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 NewStar KVM Switch, as shown in figure 1.

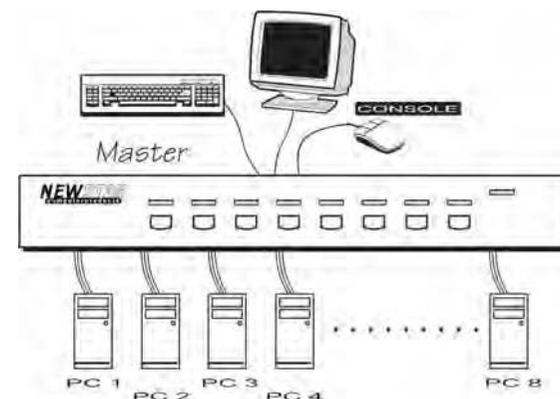


Figure 1: A single NewStar KVM Switch configuration

Cascade (Master/Slave) Configuration

You can connect a second level of one or more NewStar KVM Switches to "PC 1"~"PC 4" (NS431D) or "PC 1"~"PC 8" ports (NS831D & NS1631D) 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, NewStar KVM Switches automatically configure themselves to either *Master* or *Slave*. *Slaves* of different NewStar KVM Switch models can be mixed in cascade configuration. [NOTE: *Master* must have equal or more PC ports than that of *Slaves*, i.e., if NS831D is a *master*, NS831D and NS431D can be *Slaves*, but NS1631D can not.]

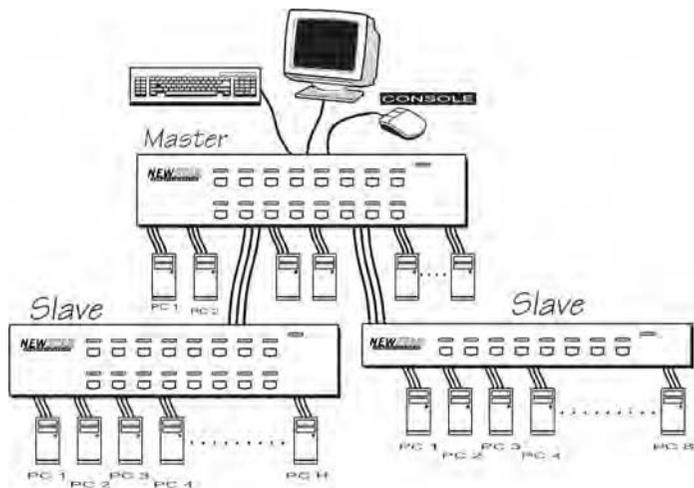


Figure 2: A cascade NewStar KVM Switch configuration

Throughout this manual, **Master** is the NewStar KVM Switch that has a physical keyboard, mouse and monitor connected to its **CONSOLE** port. **Slave** is a NewStar 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 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 NewStar KVM Switch's automatic mouse conversion system allows you to connect computers using serial mouse and control the computers from one PS/2 mouse.]

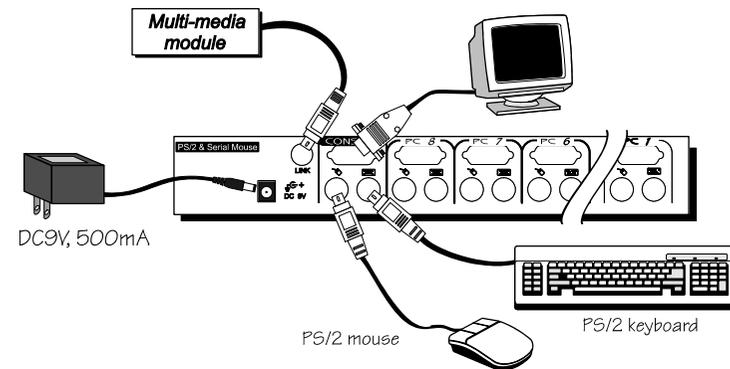


Figure 3: Master console connection

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

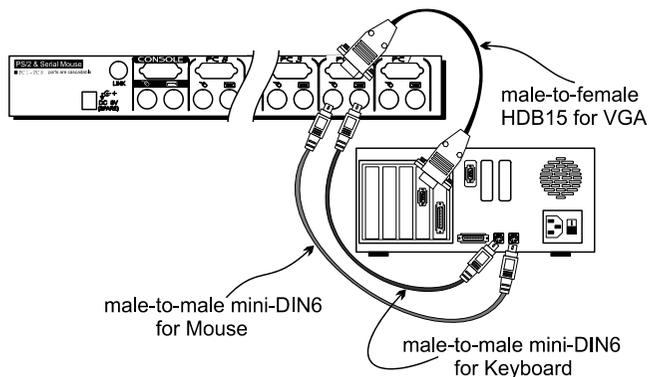


Figure 4: Master computer connection

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

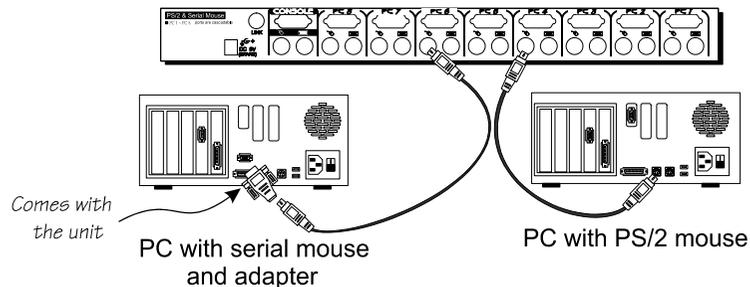


Figure 5: Adapter and serial mouse connection

Initial Power-Up

Make sure all computers and NewStar KVM Switchs are powered down during installation. You must power up the Master NewStar 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 NewStar 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 NewStar KVM Switch.

NOTE: Do not use the rubber feet for rack mount operation.

Optional Rack Mount Accessories

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

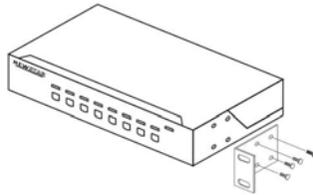


Figure 6: Attaching rack mount bracket

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

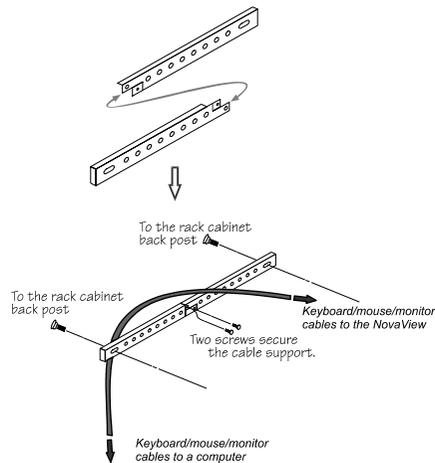


Figure 7: Assembling rack cable support

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.

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 device (green). The indicator flashes red when it is in either *Auto Scan* or *Manual Scan* mode.

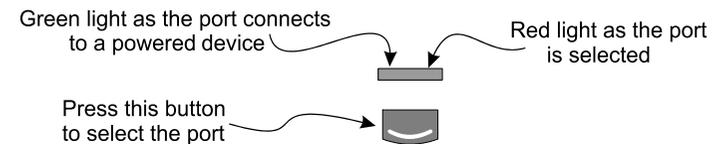


Figure 8: Front panel indicator

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 NewStar KVM Switch or any computer off.

■ AUTO SCAN

NewStar KVM Switch provides an easy to use feature to start *Auto Scanning*. 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

NS431D, NS831D and NS1631D

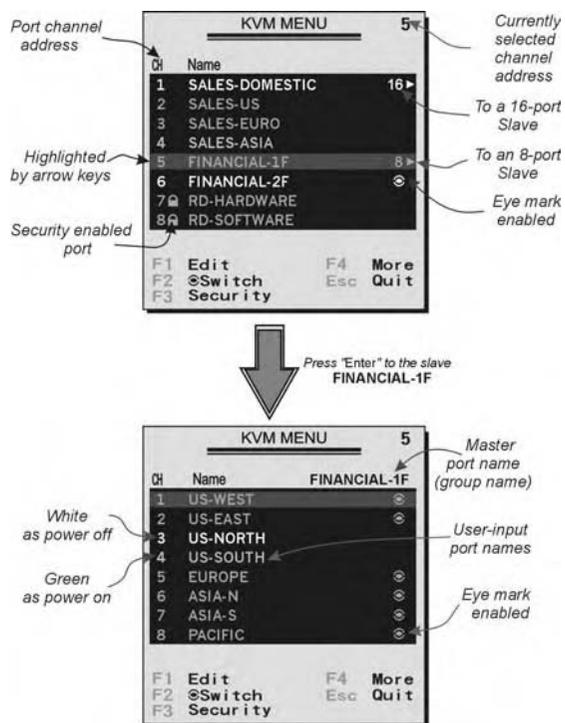


Figure 9: OSD screen illustration

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 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. For 16-port models, pressing the <PageUp> and <PageDown> keys to view 8 other computers.

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 (👁) 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.



- **Function key <F2>**: To switch the eye mark (👁) 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.

- **Function key <F3>**: 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 (🔒) 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.

- **Function key <F4>**: 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.

- **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 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. can 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 Integra 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.
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**
 NewStar KVM Switches offer 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 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.
- **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.
**Upper Left (UL), Upper Right (UR),
 Lower Left (LL), Lower Right (LR),
 Middle (MI).**
 - **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. NewStar 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 channel address, which is determined by the NewStar 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 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**

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. 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 power-on 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 NewStar 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 NewStar 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 NewStar 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 NewStar 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 NS831D is the master, NS831D and NS431D can be Slaves, but NS1631D 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.

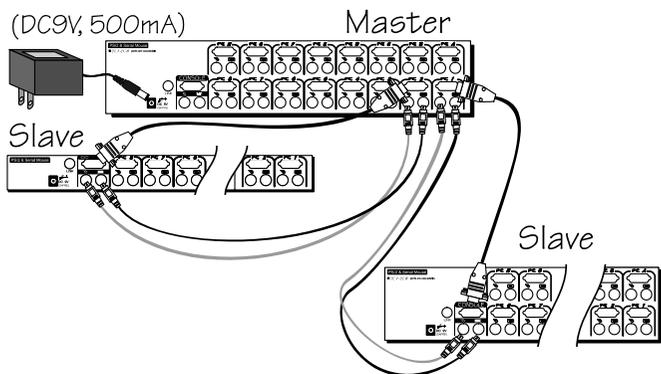


Figure 10: Slave console connection

The maximum number of computers controlled by a master/slave configuration with all NS431D is 16 with 4 Slaves and each Slave connects to 4 computers, see figure 11. For an all NS831D configuration, the number is 64 with 8 Slaves and each Slave connects to 8 computers, see figure 12. For an all NS1631D configuration, the number is 136, see figure 13. The Master NS1631D connects to 8 Slaves and 8 computers, and each Slave connects to 16 computers.

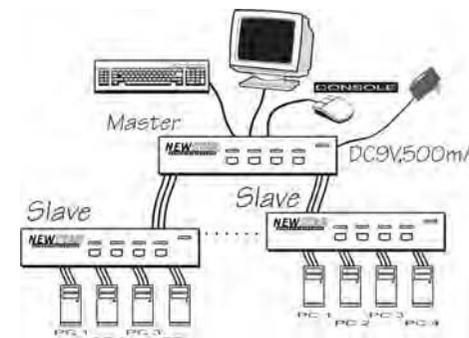


Figure 11: Cascaded 4-port NewStar KVM Switches

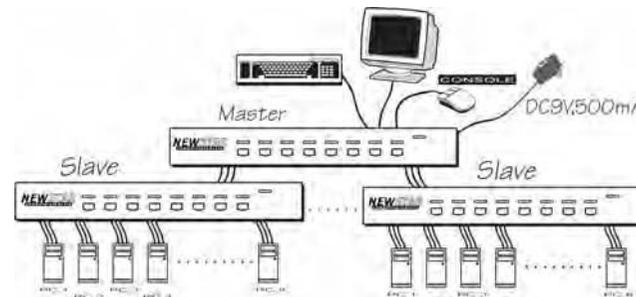


Figure 12: Cascaded 8-port NewStar KVM Switches

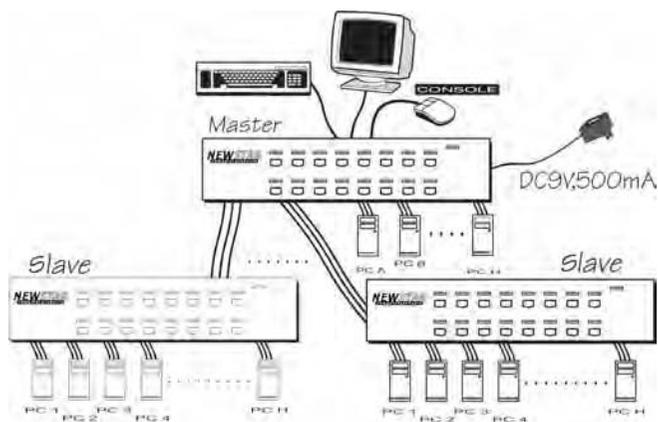


Figure 13: Cascaded 16-port NewStar KVM Switches

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 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 NS831D or NS831D.

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*.]

Appendices

Specifications:

Specifications	NS431D	NS831D	NS1631D
User port number	1	1	1
Computer port number	4	8	16
Cascade control PC number	Up to 16*	Up to 64*	Up to 136*
On-screen display (OSD)	NS431D	NS831D	Yes
Front panel button control	4	8	16
Hot plug-and-play	Yes		
Hot-key control	Yes		
Rack-mount kit	NS431TRACK	NS831TRACK	NS1631TRACK
Automatic scan interval	3, 8, 15, 30 seconds		
Programmable scan pattern	NS431D	NS831D	Yes
Cable length (Max)	30M (100ft) at CONSOLE 30M (100ft) at PC ports		
VGA	1920 x 1440, 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
(in.)	1.7x8.7x5.1	1.7x17.2x7.0	3.5x17.2x8.7
size	Compact	1U	2U
Power supply (min)	9V DC, 500mA		

* Cascaded with NewStar KVM Switch 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 NewStar KVM Switch.

Symptom	Possible causes	Recommended solutions
No OSD screen	No power to NewStar KVM Switch Loose monitor connection Monitor not multi-sync	Establish power by turning on computers, wait, press left CTRL keys several times. 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 ↓ keys do not work in <i>Manual Scan</i>	All PCs are off or only one PC is turned on. Scan mode works for power-on computers only <i>Scan type</i> is eye mark selected but no PC is eye mark selected in OSD.	Turn computers on. Press any other key to abort <i>Manual Scan</i> mode. Set proper <i>Scan type</i> in OSD and determine which PCs are eye mark selected, do it in OSD.
<i>Auto Scan</i> does not switch PC and NewStar KVM Switch beeps from time to time and red indicator flashes	All PCs are off or only one PC is turned on. Scan mode works for power-on computers only <i>Scan type</i> is eye mark selected but no power-up PC is eye mark selected	Turn on computers Set proper <i>Scan Type</i> in OSD and determine which PCs are eye mark selected, do it in OSD. Press left CTRL key twice to abort <i>Auto Scan</i> mode.

	in OSD.	Press any front button to select a PC, and <i>Auto Scan</i> stops.
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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	OSD menu has fixed resolution and its size varies due to computer VGA resolution changes.	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.
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 <i>Master</i> unit connection .Improper slave unit connection .Too many levels of slaves	Only <i>Master</i> ports PC1~PC8 can be connected to slaves. Connect slave CONSOLE port to PC1~PC8 ports of the <i>Master</i> Only one level of slave units is allowed. Pop up OSD again to check if <i>Master</i> recognizes the slave connection. Look for triangle mark and the number before it.
The NewStar KVM Switch 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.



Limited Warranty

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