

# TWO PORT PETITE KVM SWITCH



## USER MANUAL

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### CS-62

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Read this guide thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the units and/or any devices that connect to them.

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This package contains:

- 1 CS-62 Two Port Petite KVM Switch with Attached Cables
- 1 User Manual
- 1 Quick Start Guide

If anything is damaged or missing, contact your dealer.

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**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ Reorient or relocate the receiving antenna;
- ◆ Increase the separation between the equipment and receiver;
- ◆ Connect the equipment into an outlet on a circuit different from that which the receiver is connected;
- ◆ Consult the dealer or an experienced radio/television technician for help.



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## **OVERVIEW**

The CS-62 Petite KVM Switch is a control unit that allows access to two computer systems from a single console (keyboard, monitor, and mouse). Before the development of the CS-62, the only way to control multiple computer configurations from a single console was through a complex and costly network system. Now, with the CS-62 Petite KVM Switch, you can easily access two computers in a cost effective manner.

The CS-62 improves on previous models with a 50% smaller desktop footprint plus attached custom KVM cables for hassle-free installation and a neat and tidy workspace.

Setup is fast and easy; plugging cables into their appropriate ports is all that is entailed. There is no software to configure, no installation routines, and no incompatibility problems. Since the CS-62 intercepts keyboard input directly, it works on any hardware platform and with all operating systems. The KVM focus is toggled between the computers by means of simple hotkey combinations entered from the keyboard.

There is no better way to save time and money than with a CS-62 Petite KVM Switch installation. By allowing a single console to manage both computers, the CS-62 eliminates the expense of purchasing a separate keyboard, monitor, and mouse for each. Additionally, it saves the extra space they would take up, and eliminates the inconvenience and wasted effort involved in constantly having to move from one computer to the other.

## **FEATURES**

- ◆ One console controls two computers
- ◆ Compact design features two molded-in KVM (keyboard, video, mouse) cables
- ◆ Supports Microsoft IntelliMouse and the scrolling wheel on most mice
- ◆ Easy to install - No software required - connecting cables to the computers is all it takes
- ◆ Easy to operate - computer selection via hotkeys - auto scan function to monitor computer operation
- ◆ LED display for easy status monitoring
- ◆ Caps Lock, Num Lock, and Scroll Lock states are saved and restored when switching
- ◆ Hot pluggable - add or remove computers for maintenance without powering down the switch
- ◆ Keyboard and mouse emulation for error free computer booting
- ◆ Superior video quality - up to 2048 x 1536; DDC2B
- ◆ Compatible with all operating platforms
- ◆ Non-powered

## **HARDWARE REQUIREMENTS**

### **CONSOLE**

- ◆ A VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any computer in the installation
- ◆ A PS/2 Mouse
- ◆ A PS/2 Keyboard

### **COMPUTERS**

The following equipment must be installed on each computer that is to be connected to the system:

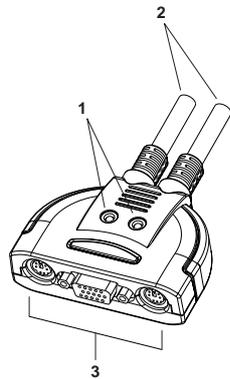
- ◆ A VGA, SVGA or Multisync card.
- ◆ A 6-pin mini-DIN (PS/2 style) mouse port.
- ◆ A 6-pin mini-DIN (PS/2 Style) keyboard port.

### **CABLES**

For optimum signal integrity and to simplify the layout, two high-quality 3-in-1 CS Custom KVM cables have been designed into the CS-62. There is no need for a separate cable purchase.

**Note:** The keyboard and mouse cables have PS/2 style connectors. The CS-62 does not support AT Keyboards or serial mice.

## FRONT VIEW



### 1. Port LEDs

A LED lights to indicate its corresponding port is the one that has the KVM focus. Depending on the port's status, the LED may flash according to a specific pattern (see the *LED Display Table*, p. 8, for details).

### 2. KVM Cables

These 3-in-1 cables connect to the keyboard, video, and mouse ports on the computers you are installing.

### 3. Console Ports

Your keyboard, monitor, and mouse plug in here. Each port is marked with an appropriate icon to indicate itself.

## INSTALLATION

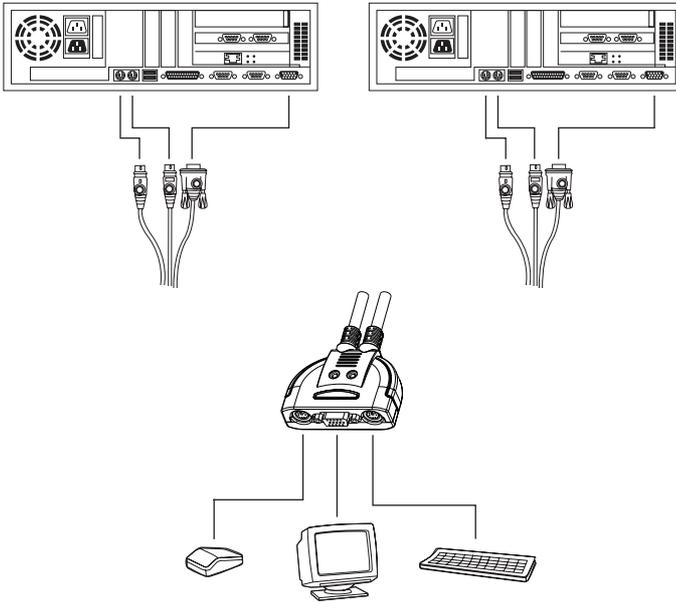


1. Before you begin, make sure that power to all the devices you will be connecting up have been turned off. You must unplug the power cords of any computers that have the *Keyboard Power On* function. Otherwise, the switch will receive power from the computer.
2. To prevent damage to your installation due to ground potential difference, make sure that all devices on the installation are properly grounded.

Refer to the Installation diagram on the next page as you perform the following steps:

1. Plug your keyboard, monitor, and mouse into the appropriate Console ports of the CS-62. Each port is labeled with an appropriate icon to indicate itself.
2. Plug the keyboard, monitor, and mouse connectors of the attached KVM cables into their respective ports on the computers you are installing.
3. Turn on the power to the computers.

**Note:** The CS-62's Power On default is to link to the first computer you turn on.



## OPERATION

The CS-62 Petite KVM Switch uses hotkey combinations to provide KVM focus to the computers. The hotkey combinations allow you to:

- ◆ Select the Active Port
- ◆ Invoke Auto Scan Mode
- ◆ Set the Auto Scan Time Interval

## SELECTING THE ACTIVE PORT

You can toggle the KVM focus between the two computers by pressing and releasing the Scroll Lock key twice:

[Scroll Lock]+[Scroll Lock].

## AUTO SCAN MODE

The CS-62's Auto Scan feature automatically toggles the KVM focus between the two computers at regular intervals so that you can monitor their activity without having to take the trouble of switching manually. The default time interval is 5 seconds. To invoke Auto Scan Mode:

Press and release the Left Shift key; then press and release the Right Shift key:

[Left Shift] [Right Shift]

Once scanning begins, it continues until you press the [Spacebar] to exit Auto Scan Mode. The port that was currently active at the time scanning stopped remains active.

**Note:** While Auto Scan Mode is in effect, ordinary keyboard and mouse functions are suspended. You must exit Auto Scan Mode by pressing the [Spacebar] in order to regain normal control of their use.

## CHANGING THE SCAN INTERVAL

Before you invoke Auto Scan, you can change the amount of time that Auto Scan dwells on each port (the time interval), with the following hotkey combination:

[Left shift] [Right shift] [S] [*n*]

Where *n* represents a number from 1 to 4 that specifies the desired scan interval time, as shown in the table below;

<i>n</i>	Scan Interval
1	3 secs
2	5 secs
3	10 secs
4	20 secs

**Note:** Press and release the keys one at a time.

## LED DISPLAY TABLE

Activity	Indication
Off	Port is not selected.
On (Steady)	The computer connected to the LED's corresponding port is the one that has the KVM focus.
Flashing (On and Off equal)	The computer connected to the LED's corresponding port is the one that has the KVM focus and is being accessed in Auto Scan mode.

## SPECIFICATIONS

Function		Specification
Computer Connections		2
Port Selection		Hot Keys
LEDs	Selected	2
Connectors	Keyboard	1 x 6 pin mini-DIN female (PS/2 style) - Console 2 x 6 pin mini-DIN male (PS/2 style) - CPU Ports
	Mouse	1 x 6 pin mini-DIN female (PS/2 style) - Console 2 x 6 pin mini-DIN male (PS/2 style) - CPU Ports
	Video	1 x HDB-15 female (std. VGA/SVGA) - Console 2 x HDB-15 male (std. VGA/SVGA) - CPU Ports
Scan Interval		3, 5, 10, 20 Seconds
Operating Temperature		0 - 50° C
Storage Temperature		-20 - 60° C
Humidity		0 - 80% RH Noncondensing
Housing		Plastic
Weight		0.41 Kg
Dimensions (L x W x H)		7.3 x 5.85 x 2.25 cm

## TROUBLESHOOTING

Symptom	Possible Cause	Action
Keyboard Not Responding <sup>1</sup>	Loose cables.	Check all keyboard cable connections to make sure they are completely seated in their sockets.
	Keyboard needs to be reset.	Unplug the keyboard from the Console Keyboard Port, then plug it back in.
	Switch needs to be reset	Turn off the computers. Unplug the KVM cables. Wait five seconds; then plug the cables back in and turn the computers on.
	Switch is in Auto Scan Mode.	Press the [Spacebar] to exit Auto Scan Mode.
Pressing Hot Keys Gets No Response. <sup>2</sup>	Selected port connects to a powered Off computer.	Resend the Hotkey command selecting a port that has a powered On computer attached.
	Hotkey sequence input incorrectly.	Resend the Hotkey command - press and release each key in the sequence individually.
	Switch is in Auto Scan Mode.	Press the [Spacebar] to exit Auto Scan Mode.
Mouse Not Detected, or Does Not Respond Correctly. <sup>2</sup>	Loose cables.	Check all mouse cable connections to make sure they are completely seated in their sockets.
	Use of Mouse Port Adapters	This unit is designed to only work with PS/2 mice and computers with PS/2 type mouse ports. PS/2 mouse signals and serial mouse signals are different - adapters will not convert the signals - therefore, the computer must be equipped with a PS/2 type mouse port. Serial mouse ports with adapters cannot be used.
	Mouse needs to be reset.	Unplug the mouse from the Console Mouse Port, then plug it back in.

(Table continues on the next page.)

Symptom	Possible Cause	Action
Mouse Not Detected, or Does Not Respond Correctly <sup>2</sup>	Switch needs to be reset.	Turn off the computers and unplug the KVM cables. Wait five seconds; then plug the cables back in and turn the computers on.
	Mouse set to Serial Mode.	Some mice can be set to act as either a PS/2 or serial mouse. Make sure the mouse is set to PS/2 mode.
	Incorrect Mouse Driver.	Check your Device Manager to be sure that the correct driver for your mouse (obtained from the manufacturer, or supplied by the operating system), has been installed.
Video Problems	Resolution and/or Bandwidth set too high.	Select a lower resolution and/or bandwidth.

<sup>1</sup> The unit is designed to work with PS/2 keyboards. XT (84 key) and AT keyboards will not work.

<sup>2</sup> Some Notebooks, notably the IBM Thinkpad and Toshiba Tecra, have trouble when their mouse and keyboard ports are used simultaneously. To avoid this, only connect the mouse port or the keyboard port. If you connect the mouse port, you will need to use the notebook's keyboard when the notebook becomes the active computer.

**LIMITED WARRANTY**

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM THE DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK OR ITS DOCUMENTATION.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and specially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or update. For further inquires please contact your direct vendor.

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