

MASTER VIEW™ USB KVM SWITCH



USER'S MANUAL

CS-102U

Please read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the CS-102U and/or any devices it connects to.

This package contains:
• 1 CS-102U KVM Switch
• 1 User Manual
• 2 USB/VGA Cables

If anything is damaged or missing, contact your dealer

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Note: 1. For PC users (Mac users do not have to do this), since you are using a USB Keyboard and/or Mouse, make the following changes to your CMOS Setup program (see the on screen instructions at bootup for how to enter the CMOS Setup program):

- a) In STANDARD CMOS, set HALT ON ERROR to ALL BUT KEYBOARD
 - b) In PNP AND PCI SETUP, set PNP OS INSTALLED to YES; set USB IRQ to ENABLED
2. The drivers for most USB devices (CCD Cameras, Scanners, Printers, e.g.) are required to be shut down before you disconnect the device, or else the system may crash. When you switch computers with the Port Selection Switch, it is the equivalent of disconnecting the device. Therefore, if you have USB peripheral devices (other than a second keyboard and mouse) connected to these ports, you must be sure to shut down the USB drivers for them before switching computers.

Overview

The Master View CS-102U represents a revolutionary new direction in KVM Switches: a dual function 2 Port KVM Switch plus 2 Port USB Hub control unit. The CS-102U incorporates USB technology to handle the data connection between itself and the connected computers, and to provide two USB ports for peripheral devices that the connected computers can share.

As a KVM switch, the CS-102U allows access to two computer systems from a single console (keyboard, mouse, and monitor) utilizing the USB connection for the console's keyboard and mouse. At the same time, it allows the two PCs and/or Macs to utilize the USB port connection to access two USB peripheral devices (printers, scanners, modems, etc.), on a "one computer at a time" basis.

Installation and operation are as easy as can be. Simply connect the cables. The computers recognize the USB peripherals the first time they come in contact with them and automatically install the necessary drivers. There is no other software installation necessary. You select the active computer by simply pressing an electronic push button switch on the unit's front panel.

Before the development of the Master View, the only way to control multiple computer configurations from a single console was through a complex and costly network system. Now, with the Master View CS-102U, you can easily access up to two computers and two USB peripheral devices in a cost effective manner.

There is no better way to save time and money than with a Master View CS-102U installation. By allowing a single console to manage both of the attached computers and USB peripherals, the Master View CS-102U eliminates the expense of purchasing separate keyboards, monitors, mice, and peripherals for each system. Moreover, it saves all 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

- Dual Function KVM / USB Switch - Two Switches In One
- Controls 2 Computers From a Single Console Over a USB Connection Using Standard USB Cables
- Simultaneous Reverse Operation - 2 Computers Can Share 2 USB Peripheral Devices
- Eliminates Driver Conflict Between the Console's Mouse and the Computers' Configuration
- Notebooks Can Use the Console's Mouse and Keyboard At the Same Time
- Easy to Install - No Software Required - Standard Cables to Connect to the Computers Is All It Takes
- Easy to Operate - Computer Selection Via Push Button Switch
- Auto Scan Function to Monitor Computer Operation
- LED Display For Easy Status Monitoring
- Saves Time, Space, Power, and Equipment Costs
- Supports DDC, DDC2, DDC2B
- Hot Pluggable

System Requirements

Console

- One VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any computer in the installation
- One USB Mouse
- One USB Keyboard

Computer

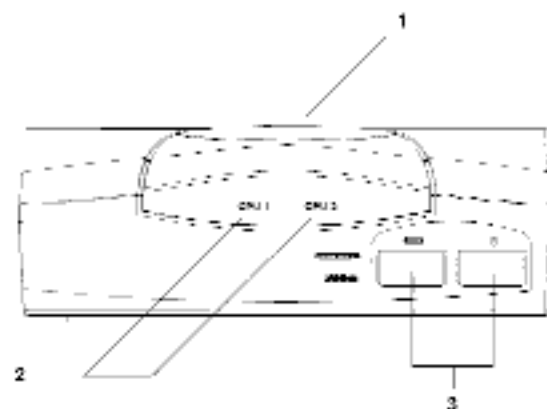
The following equipment must be installed on each computer that is to be connected to the system:

- Windows 98 or Mac OS 8.6
- USB Host Controller installed on the system.
- A VGA, SVGA or Multisync card.

Note: Mac G3 and G4 systems have DDB 15 VGA connectors just like PCs do. For other Mac systems, a DB 15 to DDB 15 VGA adapter (Part No.2A-806 purchased separately), is required .

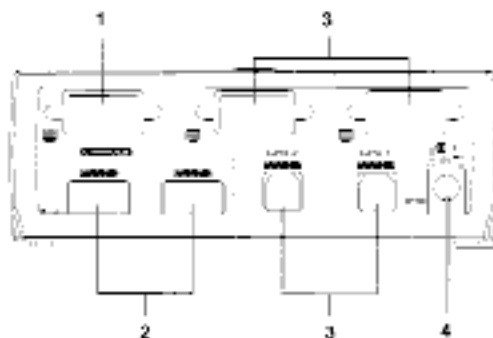
Introduction

Front View:



1. **Port Selection / Auto Scan Switch**
The Port Selection / Auto Scan switch is a pushbutton that toggles access back and forth between the computers. The Selected LED on the front panel lights to indicate which port is selected.
The switch is also used to activate / deactivate Auto Scan Mode. Holding this switch down for 2 seconds activates Auto Scan Mode; pressing the switch while Auto Scan Mode is active, turns Auto Scan Mode Off.
2. **Port LEDs**
A steady light indicates that the corresponding port is the currently selected one. A flashing light indicates that the corresponding port is being accessed under Auto Scan Mode.
3. **USB Ports**
The Console Mouse and Keyboard, as well as any USB peripheral devices you wish to attach, can plug in here. The equipment can plug into any available port.

Rear View:



1. Console Video Connector

The monitor's video cable plugs in here.

2. USB Ports

The Console Mouse and Keyboard, as well as any USB peripheral devices you wish to attach, can plug in here. The equipment can plug into any available port.

Note: The drivers for most USB devices (CCD Cameras, Scanners, Printers, e.g.), are required to be shut down before you disconnect the device, or else the system may crash. When you switch computers with the Port Selection Switch, it is the equivalent of disconnecting the device. Therefore, if you have peripheral devices (other than a second keyboard and mouse) connected to these ports, you must be sure to shut down the USB drivers for them before switching computers.

3. CPU Port Section

Cables that link the CS-102U to the computers plug in here. See the Installation section for details.

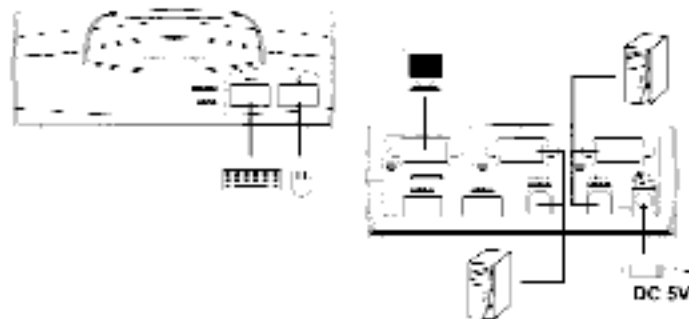
4. Power Jack

If you choose to connect an external DC 5V Power Adapter, its power cable plugs in here.

Installation

Before you begin, make sure that power to all the devices you will be connecting up have been turned off.

1. Plug the monitor, keyboard, and mouse into the Console port connectors of the Master View CS-102U unit.
2. Use the video extender cables to connect the CS-102U's video ports to the video ports on the corresponding computers, as shown in the diagram below.
3. Use standard USB cables to connect from the CS-102U's USB ports (B connectors) to the USB ports on the corresponding computers (A connectors), as shown in the diagram below.
4. If you choose to use an external 5V power adapter, plug the adapter into an AC source, then plug the adapter cable into the unit's Power Jack.



5. Power on all devices.

- Note:** 1. The CS-102U's Power On default is to link to Port 1. If the computer attached to Port 1 is inactive, the monitor will be blank so it may appear as if the unit is not functioning. This is not the case. Simply press the Port Selection Switch (located on the unit's top panel), to switch to the active computer port.
2. When you start PC2 and the switch is on CPU1, the computer's bootup routine will not autodetect the monitor's capability. Under such circumstances, the PC reverts to VGA mode. If this occurs, switch to CPU2, then use *Control Panel* to reset the resolution.
3. The Mac's keyboard Power On function is not supported. You must start the Mac with its Power On switch.

Operation

Manual Port Selection

Controlling the computers in your Master View CS-102U installation from a single console could not be easier. Simply press the Port Selection push button on the Master View's top panel to switch access back and forth between the computers.

Note: The drivers for most USB devices (CCD Cameras, Scanners, Printers, e.g.), are required to be shut down before you disconnect the device, or else the system may crash. When you switch computers with the Port Selection Switch, it is the equivalent of disconnecting the device. Therefore, if you have peripheral devices (other than a second keyboard and mouse) connected to the CS-102U's USB peripheral ports, you must be sure to shut down the USB drivers for them before switching computers.

Auto Scan Mode

When invoked, the Auto Scan feature automatically switches between the two computers at regular 5 seconds intervals, so that you can monitor their activity without having to take the trouble of switching yourself.

- To invoke , simply hold down the Port Selection push button switch for two seconds. The Port LEDs flash when *Auto Scan Mode* is in effect.
- To turn *Auto Scan Mode* Off, simply press and release the Port Selection push button. The LEDs stop flashing when *Auto Scan Mode* is no longer in effect.

- Note:** 1. While *Auto Scan Mode* is in effect, neither the keyboard nor the mouse will function. You must turn off *Auto Scan Mode* in order to be able to use the console.
2. The drivers for most USB devices (CCD Cameras, Scanners, Printers, e.g.), are required to be shut down before you disconnect the device, or else the system may crash. When the computers switch under *Auto Scan Mode*, it is the equivalent of disconnecting the device. Therefore, if you have peripheral devices (other than a second keyboard and mouse) connected to the CS-102U's USB peripheral ports, you must be sure that the USB drivers for them are shut down on both computers before invoking *Auto Scan Mode*.

Appendix

Troubleshooting

Note: If you are experiencing problems, first make sure that there are no problems with the cables, and that they are all properly connected.

Symptom	Cause	Action
Keyboard Not Responding	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.
	Master View needs to be reset	Turn off the computer and the Master View CS-102U. Wait five seconds, turn the Master View unit on, then turn the computer on. Press the Auto Scan Switch (located on the unit's top panel), to exit Auto Scan Mode.
Mouse Not Detected, or Quick Not Respond Correctly	Master View is in Auto Scan Mode	Check all mouse cable connections to make sure they are completely seated in their sockets.
	Loose cables	Unplug the mouse from the Console Mouse Port, then plug it back in.
	Mouse needs to be reset	Turn off the computer; if you are using a power adapter, unplug it. Wait five seconds. If you are using a power adapter, plug it in, turn the computer on.
Video Problems	Master View needs to be reset	The Master View CS-102U supports VGA, SVGA, Multisync, and XGA (interlaced), with resolutions of up to 1920x1440. The supported bandwidth is 130 MHz.
	Resolution and/or Bandwidth set too high	We strongly recommend that you use high quality cables. Using high quality cables should eliminate possible video problems.
	Cable quality not good enough	High quality cables are optionally provided with some CS-102U packages - otherwise, see your dealer to purchase them.

Specifications

Computer Connections	2	
Port Selection	Push Button Switch	
LEDs	2 (Selected / Auto Power)	
Connectors	Video Type A	4 (Mouse, Keyboard & Video (Paraph))
	Video Type B	2 (PCI USB Ports)
	Video	1 x 1920x15 female (std. VGA/SVGA) - Console 2 x 1920x15 male (std. VGA/SVGA) - 15" M Ports
Power	1 x DC 9V Jack	
Power Consumption	1K: 5V 150mA (max.)	
Start Interval	0 seconds	
Operating Temperature	5° - 40° C	
Storage Temperature	-20° - 60° C	
Humidity	0 - 85% RH, Noncondensing	
Finish	Plastic	
Weight	100g	
Dimensions (L x W x H)	67 x 120 x 44 mm	

Radio & TV Interference Statement

WARNING!! 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

Limited Warranty

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

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