

**MiniView**  
IOGEAR OWNER'S MANUAL



Model No. **G-CS12/14**  
2 / 4 PORT KVM SWITCH

Thank you for purchasing an IOGEAR KVM switch.  
For optimum performance and safety, please read these instructions carefully.



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## Packing List

The complete IOGEAR MiniView™ package consists of:

- One MiniView™ KVM switch
- Two or four sets of custom cables, depending on the model. G-CS12 comes with two cables while G-CS14 comes with four.
- One User Manual
- One Quick-Start Setup Guide

Note: If your computers use AT keyboard connectors, please contact us for a free set of PS/2-AT adapters.

Please check to make sure that all components are included and nothing is damaged. If you discover a problem, please contact your dealer. Before connecting your MiniView™, read the manual thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the unit and/or any devices it connects to.

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## Introduction

Thank you for purchasing one of the smallest and most feature-rich KVM switches on the market. IOGEAR's KVM switches are first-rate connectivity accessories designed to help reduce the frustration of managing multiple computer systems. With the MiniView™ series by IOGEAR, you can access multiple computers from a single console (keyboard, mouse and monitor). The MiniView™ provides two convenient methods to access connected computers. Change ports easily via the push button selection switch located on the unit's side panel, or by entering *Hot Key* combinations from the keyboard. 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 MiniView™ intercepts keyboard input directly, it works on any PS/2 compatible hardware platform and with all operating systems. There is no better way to save time and money than with a MiniView™. By allowing a single console to manage the attached computers, the MiniView™ eliminates the expense of purchasing a separate keyboard, monitor and mouse for each PC. Additionally, these switches save all the extra space multiple consoles would take up, and eliminate the inconvenience and wasted effort involved in constantly having to move from one PC to the other.

We hope you enjoy using your MiniView™ KVM switch, yet another first-rate connectivity solution from IOGEAR.

## Features

Supports Microsoft IntelliMouse, Logitech MouseMan+, FirstMouse+, IBM Scroll Point Mouse and many others

Keyboard and mouse emulation for error free PC booting

Hot pluggable – add or remove connected PCs without powering off the MiniView™

Full Plug-n-Play monitor support

Caps Lock, Num Lock and Scroll Lock status is saved and restored when switching ports

Supports video resolutions up to 1920 x 1440

Easy installation - no software required

Built-in *Auto Scan Mode*

Uses standard connectors to connect PC's

Easy to operate - PC selection via push button or *Hot Keys*

Compatible with all operating platforms

LED display for easy status monitoring

Saves time, space, power and equipment costs

Power-free design – the MiniView™ draws power from the attached computers

## Hardware Requirements

### Console

One VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any PC in the installation  
One PS/2 mouse  
One PS/2 keyboard  
or  
One AT keyboard w/ a PS/2 keyboard adapter

### PC

The following equipment must be installed on each PC that is to be connected to the system:  
One VGA, SVGA or Multisync video card  
One PS/2 mouse port  
One PS/2 or AT keyboard port

\* See the note under *Cables* in the next section.

### Cables

Although it's possible to use standard extender cables to connect the PCs to the MiniView™, for optimum signal integrity and to simplify the layout we *strongly* recommend that you use the high quality custom cables that are provided as part of the package.

Note: The keyboard and mouse cables have PS/2 connectors at each end. If your PC uses a standard AT style keyboard socket, you will need an AT-PS/2 keyboard adapter in order to plug the cable into the PC's keyboard port. Be aware, however, that because of the wiring and pin assignments, attempting to use standard extender cables with adapters at both ends will not work. You cannot use an AT-PS/2 adapter at the end that plugs into the MiniView™.

**The MiniView™ supports PS/2 mice only. Please note that PS/2-serial converters will not afford proper functionality with your MiniView™ KVM switch.**

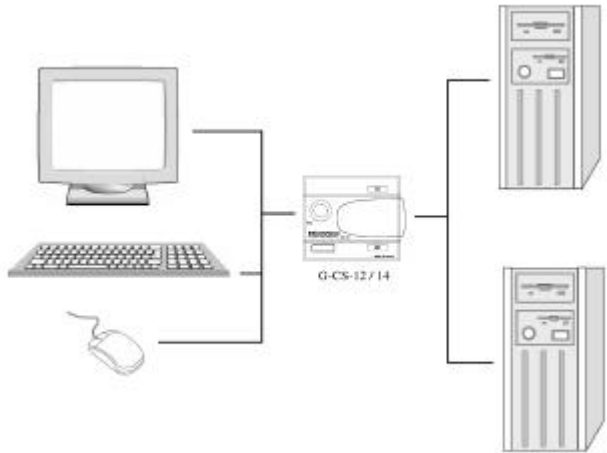
## Installation

**Before you begin, make sure that the computers you're going to connect to the MiniView™ are turned off.**

- 1 Plug the monitor, keyboard, and mouse into the **console port** connectors of the MiniView™ unit.
- 2 Use the extender cables (as described in the *Hardware Requirements* and *Unpacking* sections) to connect the monitor, keyboard and mouse ports of the PCs to the MiniView™ **CPU ports**, as shown in the diagram to the right. If your PC uses an AT style connector for the keyboard port, connect a PS/2-AT adapter to the end of the cable that will connect to the PC. If you don't have a PS/2-AT adapter available, please contact us and we'll be happy to provide one at no extra charge.
- 3 Turn on the power to the connected PCs.



**Installation...**



## Operation

**Controlling the PCs in your MiniView™ configuration from a single console couldn't be easier. Two port selection methods provide instant access to any attached PC:**

Manual Port Selection  
*Hot Key Port Selection*

Note: When powering-on, the MiniView™ switches to port 1 by default. If the PC 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 use one of the port selection methods described below to switch to the active PC on a different port.

### **Manual Port Selection**

With manual port selection, you simply press the *Port Selection* button on the side panel of the MiniView™ to switch between computers. The selected LED on the top panel will light up to indicate which port is active.

## Operation...

### Hot Key Port Selection

*Hot Key* navigation allows you to select the active PC directly from the keyboard, instead of having to manually select it by pressing the *Port Selection* button. The MiniView™ provides several *Hot Key* navigation features:

- ◆ Active port selection
- ◆ *Auto Scan Mode*
- ◆ *Last/Next Mode*

**Note:** For *Hot Key* operations that begin by pressing and releasing the *Ctrl + Alt + Shift* combination, please remember that the keys must all be on the same side of the keyboard (i.e. *Left Ctrl + Left Alt + Left Shift* or *Right Ctrl + Right Alt + Right Shift*).

### Selecting the Active Port:

Each CPU port is assigned a numeric ID (CPU1, CPU2, etc.). You access the PC attached to a port by specifying the Port ID as part of the *Hot Key* combination as follows:

#### 2-Port MiniView™

Press and release the *Left Ctrl* or *Right Ctrl* key twice.

**Note: The combination must be on the same side of the keyboard (*Left Ctrl + Left Ctrl* or *Right Ctrl + Right Ctrl*)**

#### 4-Port MiniView™

1. Press and release *Ctrl + Alt + Shift*
2. Key in the appropriate Port ID (1, 2, etc.)
3. Press *[Enter]*

## Operation...

### **Auto Scan Mode:**

The *Auto Scan* feature automatically switches between the connected PCs at regular intervals so that you can monitor their activity without having to take the trouble of switching yourself. To invoke *Auto Scan Mode*, key in the following *Hot Key* combination:

### **2-Port MiniView™:**

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 active at the time scanning stopped remains active.

### **4-Port MiniView™:**

- 1 Press and release *Ctrl + Alt + Shift*
- 2 Press and release *0* (zero)
- 3 Press *[Enter]*

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, none of the other keyboard keys will function. You must exit *Auto Scan Mode* by pressing the *[Spacebar]* in order to use the console for anything else.

## Operation...

### **Next/Last Mode:**

The *Last/Next* feature is provided to enable you to quickly switch back and forth between computers in order to monitor them manually, instead of using *Auto Scan Mode*. This method lets you monitor a particular computer for as long or as little as you like - as opposed to *Auto Scan Mode*, which switches after a fixed interval. To invoke *Last/Next Mode*, key in the following *Hot Key* combination:

1. Press and release *Ctrl + Alt + Shift*
2. Press and release *9*
3. Press *[Enter]*

Once *Last/Next Mode* is active, pressing the *Left Shift* key (*LShift*) switches to the previous computer (from the currently active one) while pressing *RShift* switches to the next computer in the configuration.

## Appendix A

### Specifications:

<i>Port Selection</i>	<i>Hot Keys /Port Selection Button</i>
Emulation	Keyboard: PS/2 & AT
	Mouse: PS/2
LEDs	Port-Selected
Console Connectors	Keyboard: 6-pin mini-DIN (F)
	Mouse: 6-pin mini-DIN (F)
	Monitor: HDB-15 VGA (F)
PC Connectors	Keyboard: 6-pin mini-DIN (F)
	Mouse: 6-pin mini-DIN (F)
	Monitor: HDB-15 VGA (F)
Video Resolution	Max: 1920 x 1440, DDC2B
AutoScan Interval	3 seconds
Power Consumption	DC 5V 20mA
Housing	Plastic
Operating Temperature	5°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Humidity	0 ~ 80% RH, Noncondensing
Weight	G-CS12: 4.9 ounces
	G-CS14: 8.1 ounces
Dimensions (L x W x H)	G-CS12: 4.0" x 3.4" x 1.1"
	G-CS14: 6.7" x 3.4" x 1.1"

## Appendix A 10

### LED Display

LED Activity	Meaning
Off	Port is not selected
On (steady)	Port is selected
Flashing (on & off, equally)	Port is connected to an active PC and is being accessed in Auto Scan Mode
Flashing (long on; short off)	Port is connected to an active PC and is being accessed in Next/Last Mode

## Appendix B

### Troubleshooting:

**Note:** If you are experiencing any erratic behavior from your MiniView™, first make sure there are no problems with the cables and that they are all properly connected.

Problem	Possible Cause	Action
<b>The keyboard is not responding.</b>	The keyboard needs to be reset.	Disconnect the keyboard from the MiniView™, wait a few seconds and plug it back in.
	The MiniView™ needs to be reset.	Shut down the computers and disconnect the keyboard from the MiniView™. Power off the MiniView™, wait a few seconds, reconnect the keyboard and power.
	MiniView™ is in Auto Scan or Next/Last Mode	Press the [spacebar] key to exit Auto Scan or Next/Last Mode.
<b>The mouse is not responding.</b>	The mouse needs to be reset.	Disconnect the mouse from the MiniView™ then reconnect it.
	The MiniView™ needs to be reset.	Shut down the computers and the MiniView™. Wait a few seconds then power everything on.
	The mouse is in an unsupported mode.	The MiniView™ does not support some combo mice (with extra buttons and wheels), which can be used as either a PS/2 or serial mouse. If the mouse is in serial mode, switch the mouse to PS/2 mode if you wish to use the extra buttons or wheel. If the problem persists, try using a different mouse or a different mouse driver.
	A serial mouse or serial mouse port is included in the system configuration	The MiniView™ G-CS12 and G-CS14 were designed to operate only with PS/2 mice and PS/2 computers. PS/2-to-serial adapters will not afford proper functionality when used with the MiniView™. Please make sure all computers and mice connected in your configuration are using 6-pin mini-Din (PS/2) connectors.
<b>Video is distorted or non-existent.</b>	Cable quality is not adequate.	We strongly recommend that you use high-quality KVM cables, such as the ones included in your IOGEAR MiniView™ package. Using inadequate cables can result in video distortion.

## Appendix C

### Contacting IOGEAR

In the event that your MiniView™ fails to function properly, or you wish to contact us for any other reason, here are a few ways to contact us.

IOGEAR  
16560 Aston Street  
Irvine, CA 92606

Phone: (949) 250-1260  
Toll Free: (888) 999-2836  
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[www.iogear.com](http://www.iogear.com)  
[info@iogear.com](mailto:info@iogear.com)





## Appendix D

### Radio & TV Interference Statement

This equipment has been tested and found to comply within 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. There is no guarantee, however, that interference will not occur in a particular installation.

### Limited Warranty

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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 updates. For further inquiries please contact your direct vendor.



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**MiniView**  
IOGEAR OWNER'S MANUAL



Model No. **G-CV160**  
Mac-PS/2 Adapter

Thank you for purchasing an IOGEAR Mac-PS/2 adapter.





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## Package Contents

**This IOGEAR package contains:**

G-CV160 Mac – PS/2 Adapter  
ADB Patch Cable  
Mac Video Patch Cable  
User Manual & Setup Guide  
Product Registration / Warranty Card

Please check to make sure that all components are included and nothing is damaged. If you discover a problem, please contact your dealer. Before connecting your MiniView™, read the manual thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the unit and/or any devices it connects to.





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## Introduction

Thank you for purchasing IOGEAR's MiniView™ Mac Adapter, a Macintosh-PS/2 converter that allows seamless integration of a Macintosh computer into your existing KVM configuration. Our Mac Adapter is fully compatible with older Macintosh systems, the new iMac, G3 and G4. Full Macintosh keyboard functionality is supported on any PS/2 keyboard, while a second ADB port allows your existing ADB devices to be used with the Mac. Although this unit is fully compatible with our PS/2 KVM switches, it can also be used as a stand-alone Mac-PS/2 converter. We hope you enjoy using your new Macintosh Adapter – yet another first-rate connectivity solution from IOGEAR.



## Features / System Requirements

### Features

Converts from ADB and DB-15 to PS/2 and HDB-15  
Allows a Macintosh system to be incorporated into  
your KVM setup.

Secondary ADB port provides support for additional  
Macintosh accessories.

Full Mac functionality supported on a PS/2 keyboard  
No software required.

Patented VSE technology supports ultra high quality  
video at resolutions up to 1920 x 1440.

Save time, space and money.

**3 Year Limited Warranty.**

### System Requirements

- 1) Macintosh computer with:
  - ADB connectors for the mouse & keyboard
  - DB-15 connectors for the video (standard Mac Video)
- 2) A PS/2 mouse
- 3) A PS/2 or AT keyboard
- 4) A VGA, SVGA or MultiSync monitor

## Installation

### Installation in a KVM setup:

Before installing your G-CV160, please make sure your Macintosh is powered OFF.

- 1) Connect the PC keyboard and mouse ports on the G-CV160 to one of the PC ports on your KVM switch. Be sure the keyboard port on the KVM switch is connected to the keyboard port on the G-CV160, and the same is true for the mouse ports.
- 2) If you have an older Macintosh with DB-15 (Mac video) connectors, connect the PC video port on the G-CV160 to the corresponding video port on your KVM switch. If you're connecting the G-CV160 to a new G3, G4 or other Macintosh with HDB-15 video connectors, you can bypass the video portion of the G-CV160 and connect the video port on your KVM switch directly to the Mac.
- 3) Connect the Mac ports on the G-CV160 to your Macintosh computer.
- 4) If you have any extra ADB devices (beside the typical mouse and keyboard), connect them to the 2nd ADB port on the side of the G-CV160.



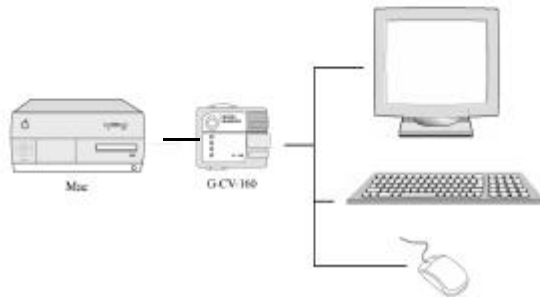
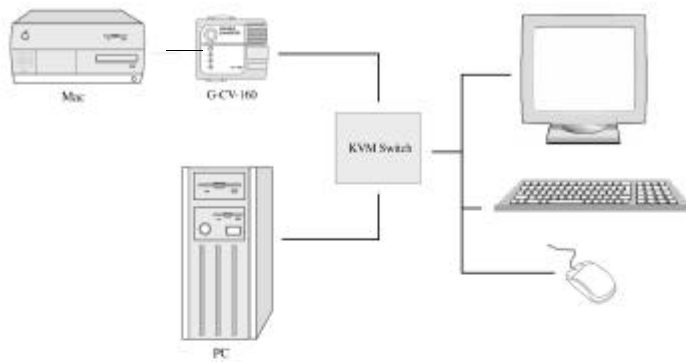
## Installation

Before installing your G-CV160, please make sure your Macintosh is powered OFF.

### Installation without a KVM switch:

1. Connect your PS/2 keyboard and mouse to the PC ports on the G-CV160.
2. If you have an older Macintosh with DB-15 (Mac video) connectors, connect your monitor to the PC video port on the G-CV160. If you're connecting the G-CV160 to a new G3, G4 or other Macintosh with HDB-15 video connectors, you can bypass the video portion of the G-CV160 and connect the monitor switch directly to your Mac.
3. Connect the Mac ports on the G-CV160 to your Macintosh computer.
4. If you have any extra ADB devices (besides the typical mouse and keyboard), connect them to the 2<sup>nd</sup> ADB port on the side of the G-CV160.

# Installation



## Dip Switches

Note: Do not modify the DIP Switches when your Macintosh is powered-ON.

Switches 1-6 are used to set the appropriate video properties for your configuration.

\*1 – When SW5 and SW6 are both ON, the VGA and SVGA resolution settings are selected in the monitor portion of the control panel.

\*2 – When SW1, SW5 and SW6 are all ON, VGA and

Video DIP Switch Settings									
SW1	SW2	SW3	SW4	SW5	SW6	Model	Horizontal (KHz)	Vertical (Hz)	Resolution
ON						13" Color			640 x 480
ON	ON					NTSC (Under)			512 x 384
ON		ON				12" Color	24.4	60.15	512 x 384
ON	ON	ON				21" Color	60.7	75	1152 x 870
	ON					NTSC (Over)			640 x 480
		ON				21" Mono			1152 x 870
	ON	ON				Portrait			640 x 870
			ON	ON		19" Color	60.2	75	1024 x 768
			ON		ON	16" Color	49.7	75	832 x 624
			ON	ON	ON	PAL			640 x 480
				ON	ON	VGA	31.5	60	640 x 480
				ON	ON	SVGA	35.2	50	800 x 600
ON				ON	ON	VGA	35	67	640 x 480
ON				ON	ON	SVGA	49	75	832 x 624

## Dip Switches

Switch 7 is used to toggle between a standard 101 and 104 key keyboard.

Keyboard: DIP Switch 7	
OFF	PS/2 104 Key
ON	PS/2 101 Key

Switch 8 toggles the mouse between high and normal speed settings.

Mouse: DIP Switch 8	
OFF	Normal Speed
ON	High Speed

## Mac Key Assignments

MAC	101-Key	104-Key
Shift	Left or Right Shift	Left or Right Shift
CTRL	Left Control	Left or Right Control
Option	Right Control	Left or Right Windows® Key
⌘	Left or Right Alt	Left or Right Alt
F13	Print Screen	Print Screen
F14	Scroll Lock	Scroll Lock
F15	Left Shift or Right Shift + Pause	Left Shift or Right Shift + Pause
=	Pause	Pause
Power On/Off	G-CV160 Power Button	G-CV160 Power Button
Return	Enter	Enter
Delete	Backspace	Backspace
Help	Insert	Insert

## Specifications

Function	Specification	
Console Connectors	Keyboard	6-pin mini-DIN (F)
	Monitor	6-pin mini-DIN (F)
	Mouse	HDB-15 VGA (M)
Macintosh Connectors	Keyboard	4-pin mini-DIN (F)
	Monitor	DB-15 / HDB-15 (M)
	Mouse	4-pin mini-DIN (F)
Dip Switches	8 bits x 1	
Power ON/OFF	Push Button	
Status LED	Red	
Power Consumption	50mA (max.)	
Operating Temperature	5°C ~ 40° C	
Storage Temperature	-20°C ~ 60°C	
Humidity	0 - 80% R.H. Noncondensing	
Casing	Plastic	
Weight	5.3 ounces	
Dimensions (L x W x H)	4.0" x 3.2" x 1.4"	



## Radio Interference / Limited Warranty

### Radio & TV Interference Statement

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## Contacting IOGEAR

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