Installation Guide

2-Port Dual-Link DVI KVMP Pro with 7.1 Audio

GCS1782G

PART NO. M1171-b

www.iogear.com

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Conventions

This manual uses the following conventions:

Monospaced Indicates text that you should key in.

[ ] Indicates keys you should press. For example, [Enter] means to press the Enter key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].

1. Numbered lists represent procedures with sequential steps.

♦ Bullet lists provide information, but do not involve sequential steps.

−>Indicates selecting the option (on a menu or dialog box, for example), that comes next.

For example, Start −> Run means to open the *Start* menu, and then select *Run*.

Indicates critical information.

Package Contents

1 x 2-Port Dual-Link DVI KVMP Pro with 7.1 Audio
2 x Dual Link DVI-D KVM Cables
2 x 7.1 Audio Cables
1 x Power Adapter
1 x Installation Guide
1 x Waranty Card

System Requirements

Console
1 DVI display
1 set of USB keyboard and mouse
Microphone and speaker (optional)

Computers
1 DVI port
1 USB
Audio ports (optional)

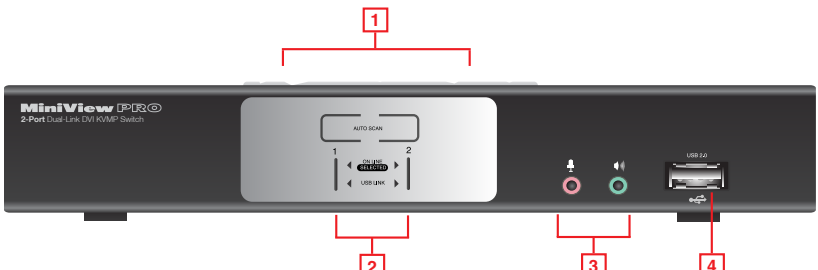
Operating Systems

OS	Flavor	Version
Windows		2000 and higher
Linux	RedHat	9.0 and higher
	SuSE	10.0 / 11.1 and higher
	Ubutu	7.04 / 7.10
Unix	AIX	4.3 and higher
	FreeBSD	5.5 and higher
	Sun	Solaris 9 and higher
Novell	Netware	6.0 and higher
		OS 9.0 and higher

Note: Supports Linux Kernel 2.6 and higher.

Overview

Front View



No.	Component	Description
1	Port Selection Pushbuttons	Press a button for longer than two seconds to bring the KVM, USB, and audio focus to the computer attached to its corresponding port.
2	Port LEDs	The Port LEDs are located below the Port Selection Pushbuttons. The upper one (Orange) are the KVM Port LEDs; the lower ones (Green) are the USB LEDs: **KVM** Lights DIM ORANGE to indicate that the computer attached to the port is (On Line). Changes to BRIGHT ORANGE to indicate that the computer attached that port has KVM focus (Selected). Flashes to indicate that the computer attached to its port is in Auto Scan mode. **USB** Lights GREEN to indicate that there is a USB connection to the computer attached to the port. Changes to BRIGHT GREEN to indicate that the computer attached has access to the USB peripherals.
3	Console Ports (Audio)	Connections for your microphone and 2.1 speakers
4	USB 2.0 Peripheral Port	Connection for a USB peripheral device (printer, scanner, etc.)

Rear View

1
2
3
LINE
SIDE L/R
REAR L/R
CTR/ BASS
MIC
FRONT L/R
CONSOLE
CPU 2
CPU 1
4
5

No.	Component	Description
1	USB Console Ports	USB Keyboard and mouse connections*
2	Console Port Section	Connections for your monitor, mic, and speakers
3	CPU Port Section	Connections for the cables that link the switch to your computers. Each CPU port is comprised of a microphone jack, speaker jack, USB type B socket and a DVI connector
4	Power Jack	Power adapter connection
5	USB Peripheral Port	Connection for USB 2.0 peripherals (printers, scanners, etc)

Hardware Setup

⚠ Make sure that power to all the devices you will be installing has been turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.

Cable Connection

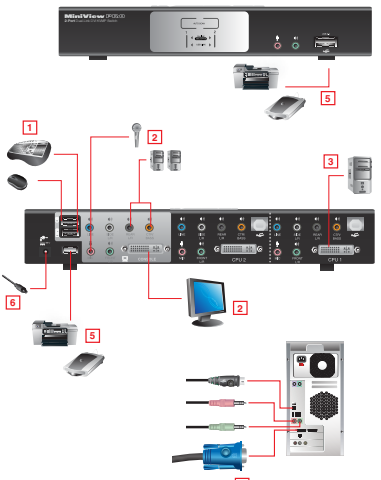
To set up your GCS1782 installation, refer to the installation diagrams on the following pages (the numbers in the diagrams correspond to the steps, below), and do the following:

1. Connect your USB keyboard and mouse into the USB Console Ports located on the unit's back panel.
2. Connect your microphone, speakers, and monitor into the Console ports located on the unit's rear panel

Note: The IOGEAR KVM cable set provided 2.1 channel surround sound only. You must use the included audio cable for 7.1 audio

3. Using the KVM cable set, connect the DVI connector into any available DVI socket in the CPU Port setion of the switch, then connect the accompanying USB, microphone and speaker connectors into their corresponding USB, microphone, and speaker sockets.

4. At the other end of the cable, connect the USB, video, microphone, and speaker cables into their respective ports.
5. Connect your USB peripherals into the type A sockets (one is located on the front, the second is located on the rear).
6. Connect the power adapter that came with your switch into the jack on the switch then connect the adapter to an AC power source.
7. Verify your connections: ports are correct and that the Icons match the connection type.
8. Power on the computers.



Basic Operation

There are three convenient methods to access the computers: Manual – which involves pressing the port selection buttons located on the unit's front panel; Mouse – which involves double clicking the scroll wheel of the mouse; and Hotkey – which involves entering key combinations from the keyboard.

Manual port selection

Press and release a port selection button to focus the computer on the corresponding port. The USB and Audio focus do not change (expect a 2 sec delay).

Press a port selection button twice to focus the audio on the corresponding port (expect a 2 sec delay).

Press and hold a port selection button for more than 2 seconds to change KVM, USB, and Audio focus to the computer on the selected port.

Press and hold port selection buttons 1 and 2 for more than 2 seconds to start Auto Scan Mode.

Mouse Port Switching

The KVM supports the very latest in mouse port-switching – simply double-click the scroll wheel of your USB mouse to cycle through the ports.

Note: 1. This featured is only supported by USB 3-key scroll wheel mice.
2. The default setting is disabled.
3. This feature is only supported when Mouse Emulation is enabled.
See Mouse Emulation Control for details

Hotkey switching

All port switching begins by tapping the **Scroll Lock** key twice. The tables below describe the actions that each combination performs.

Note:
If the Scroll Lock key conflicts with programs running on the computer, or your keyboard does not have a Scroll Lock, see the section titled **Advanced Switching** to use the alternate switching method.

Cycling though the ports

Hotkey	Action
[Scroll Lock] [Scroll Lock] [Enter]	Increments the KVM, USB, and Audio focus to the next higher port (port 4 wraps to 1)
[Scroll Lock] [Scroll Lock] [K] [Enter]	Increments only KVM focus to the next port
[Scroll Lock] [Scroll Lock] [U] [Enter]	Increments only the USB hub to the next port
[Scroll Lock] [Scroll Lock] [S] [Enter]	Increments only Audio to the next port

* The USB ports cannot be switched independently of each other.

Port ID Numbering

Each CPU port on the switch is assigned a port number. The port numbers are marked on the rear panel of the switch and each switch LED has a corresponding number for easy identification.

The Port ID of a computer is derived from the CPU port number it is connected to. For example, a computer connected to CPU port 2 has a Port ID of 2.

The Port ID is used to specify which computer gets the KVM, USB peripheral, and / or audio focus with the Hotkey port selection method.

Going Directly to a Port

Note: The **n** stands for the computer's Port ID number. Replace the **n** with the appropriate Port ID when entering hotkey combinations

Hotkey	Result
[Scroll Lock[ScrollLock][**n**][Enter]	Brings the KVM, USB hub, and audio focus to the computer attached to the specified port.
[Scroll Lock] [Scroll Lock][**n**] [K] Enter]	Brings only the KVM focus to the computer attached to the specified port.
[Scroll Lock] [Scroll Lock] [**n**] [U] [Enter]	Brings only the USB hub focus to the computer attached to the specified port.
[Scroll Lock] [Scroll Lock] [**n**] [S] [Enter]	Brings only the audio focus to the computer attached to the specified port.
[Scroll Lock] [Scroll Lock] [**n**] [K] [U] [Enter]	Brings the KVM and USB hub focus to the computer attached to the specified port.
[Scroll Lock] [Scroll Lock] [**n**] [K] [S] [Enter]	Brings the KVM and audio focus to the computer attached to the specified port.
[Scroll Lock] [Scroll Lock] [**n**] [U] [S] [Enter]	Brings the USB hub and audio focus to the computer attached to the specified port.

Auto Scanning

The GCS1782G's Auto Scan feature automatically cycles the KVM focus through the computer ports at regular intervals. This allows you to monitor computer activity without having to switch from port to port manually.

Note:

1. The **n** stands for the number of seconds that the GCS1782G should dwell on a port before moving on to the next. Replace the **n** with a number between 1 and 99 when entering this hotkey combination.
2. While Auto Scan Mode is in effect, ordinary keyboard and mouse functions are suspended – only Auto Scan Mode compliant keystrokes and mouse clicks can be input. You must exit Auto Scan Mode in order to regain normal control of the console (hit the space bar or the Esc key).
3. Although the video focus switches from port to port, the keyboard, mouse, and USB focus do not switch. They remain on the port where Auto Scanning began.

Hotkey	Result
[Scroll Lock] [Scroll Lock] [A] Enter]	Invokes Auto Scan. The KVM focus cycles from port to port at 5 second intervals (default interval)
[Scroll Lock] [Scroll Lock] [A] [n] Enter]	The KVM focus cycles from port to port at **n** second intervals.

Advanced Configuration

Hotkey Setting Mode

In some instances the default hotkey settings conflict with programs running on your computer, and in some instances the default hotkeys either do not exist on your keyboard (MAC keyboards for instance do not have a Scroll Lock key), or are inconvenient to use, so The Hotkey Setting Mode allows you to select alternate configurations for the KVM's hotkeys.

When HSM is active, the Caps Lock, and Scroll Lock LEDs flash in succession to indicate that HSM is in effect. They stop flashing and revert to normal status when you exit HSM.

Ordinary keyboard and mouse functions are suspended – only Hotkey compliant keystrokes and mouse clicks (described in the sections that follow), can be input.

At the conclusion of some hotkey operations, you automatically exit hotkey mode. With some operations, you must exit manually. To exit HSM manually, press the **Esc** key, or the **Spacebar.**

Invoking Hotkey Setting Mode (Default)
1. Press and hold down **[Num Lock]** (the **Clear** key on MACs).
2. Press and release **[-].**
3. Release **[Num Lock]** (the **Clear** key on MACs).

To Toggle to or from the alternate **Hotkey Setting Mode** (HSM):
1. Press and hold down **[Num Lock].**
2. Press and release **[-].**
3. Release **[Num Lock].**
4. Press and release **[H].**

Invoking Hotkey Setting Mode (Alternate)
1. Press and hold down **[Ctrl]**.
2. Press and release **[F12]**.
3. Release **[Ctrl]**.

Note:
The term “invoke HSM” in the following table refers to the method chosen above

Summary of Hotkey Settings

Note:
The term “invoke HSM” in the following table refers to the default or alternate method chosen above

Action	Key sequence	Result
Port Switching	Invoke HSM Press and release **[T]**	Changes the [Scroll Lock] key to [Ctrl]
USB reset	1. Invoke HSM. 2. Press and release **[F5]**	Resets the USB peripheral ports
Restore Default Settings	1. Invoke HSM. 2. Press **[R] [Enter]**.	Reset the KVM to its default hotkey settings
Hotkey Beeper Control	1. Invoke HSM. 2. Press **[B]**	Toggles the Beeper On and Off
Disable Port Switching Hot Keys	1. Invoke HSM 2. Press **[X] [Enter]**	Toggles Hotkey Switching on or off
Other OS Mode	1. Invoke HSM 2. Press **[F1]**.	Reset keyboards and mice under some special OS’s that do not support USB 2.0

Other OS Mode	1. Invoke HSM 2. Press **[F1]**	Reset keyboards and mice under some special OS's that do not support USB 2.0
Mouse Emulation Control	1. Invoke HSM 2. Press **[M]**	Allows the special programming of multifunction mice to operate through the KVM
List Hotkey Settings	1. Open a word processor 2. Invoke HSM. 3. Press and release **[F4]**	Prints a list of the current hotkey settings in your text editor or word processor
Display Emulation Technology	1. Invoke HSM 2. Press and release **[D]**	Display Emulation Technology eliminates the problems of your display reverting to default resolution when switching between computers, or displaying a default resolution if the KVM is not focused on the computer while it is booting.
Alternative Manual Port Selection Settings	1. Invoke HSM 2. Press and release **[S]**	Toggles between the default and the alternative front panel pushbutton port selection settings See the table on page 25 for comparisons
Power on Detection	1. Invoke HSM 2. Press and release **[E]**	Toggles Power on Detection ON or OFF

Mouse Port-switching	1. Invoke HSM 2. Press **[W]**	The Mouse Port-switching function can be enabled or disabled. The default setting is disabled. **Note:** This feature only supports the USB 3-key scroll wheel mice. The default setting is OFF. This feature is only supported when mouse emulation is also enabled. See Mouse Emulation Control, above.
Keyboard Emulation Control	1. Invoke HSM 2. Press **[N]**	Console keyboard port emulation/bypass feature supports most gaming/multimedia keyboards. The default setting is enabled. Disabling allows the special keyboard commands to pass through the KVM to the computer. **Note:** When keyboard emulation is disabled, the following Hotkeys are disabled. [M], [W], [F2], [F3], [F4], [F5], [F6], and [F10] See page 28, for details.
Firmware Upgrade Mode	1. Invoke HSM 2. Key in: upgrade 3. Press **[Enter]** The orange front panel LEDs flash to indicate Firmware	Upgrade Mode is in effect.

Comparison of Default and Alternate Manual Port Selection Settings

Action	Default	Alternate
Press and release a port selection pushbutton	Switches only the KVM focus to the selected port	KVM, Audio and USB focus switch to the selected port
Press a port selection pushbutton twice	Audio focus switches to the selected port	Audio focus switches to the selected port
Press and hold a port selection pushbutton for more than 2 seconds	KVM focus, USB, and Audio focus switch to the selected port	Switches only the KVM focus to the selected port
Press and hold port selection pushbuttons 1 and 2 for more than 2 seconds	Starts AutoScan @ 5 sec dwell	Starts AutoScan at 5 sec dwell

Keyboard Operating Platform

The KVM's default port configuration is for a PC compatible keyboard operating platform. If your console uses a PC compatible keyboard and you have a Mac or Sun attached to a port, for example, you can change the port's keyboard operating platform configuration so that the PC compatible keyboard emulates the Mac or Sun keyboard.

1. Bring the KVM focus to the port you want to set.
2. Invoke HSM.
3. Press and release the appropriate Function key (see table below).

Function Key	Operation
[F2]	Enables Mac keyboard emulation, see Mac Keyboard Emulation,
[F3]	Enables Sun keyboard emulation, see Sun Keyboard Emulation
[F10]	Disables keyboard emulation. Key presses are passed straight through. When your console uses a Mac keyboard to access a Mac attached to a port, for example

After completing this procedure, you automatically exit HSM.

The PC compatible (101/104 key) keyboard can emulate the functions of Mac and Sun keyboards when the Control key [Ctrl] is used in conjunction with other keys.

The emulation mappings are listed in the table on the next page.

PC Keyboard	Mac Keyboard	PC Keyboard	Sun Keyboard
[Shift]	Shift	[Ctrl] [T]	Stop
[Ctrl]	Ctrl	[Ctrl] [F2]	Again
	⌘	[Ctrl] [F3]	Props
[Ctrl] [1]		[Ctrl] [F4]	Undo
[Ctrl] [2]		[Ctrl] [F5]	Front
[Ctrl] [3]		[Ctrl] [F6]	Copy
[Ctrl] [4]		[Ctrl] [F7]	Open
[Alt]	Alt	[Ctrl] [F8]	Paste
[Print Screen]	F13	[Ctrl] [F9]	Find
[Scroll Lock]	F14	[Ctrl] [F10]	Cut

PC Keyboard	Mac Keyboard	PC Keyboard	Sun Keyboard
	=	[Ctrl] [1]	
[Enter]	Return	[Ctrl] [2]	
[Backspace]	Delete	[Ctrl] [3]	
[Insert]	Help	[Ctrl] [4]	
[Ctrl]	F15	[Ctrl] [H]	Help
			Compose

Note: Press and release the first key [Ctrl], then press and release the activation key.

The Firmware Upgrade Utility

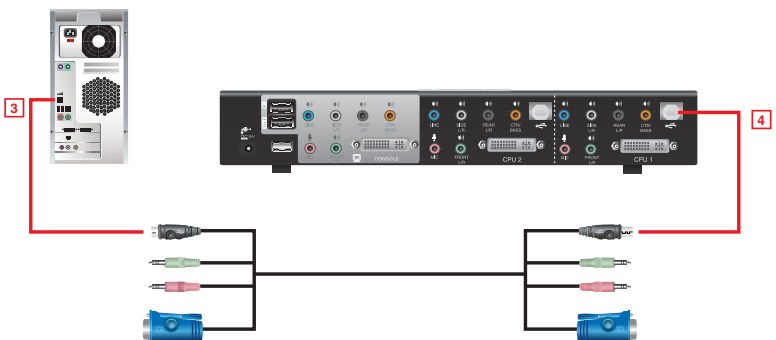
The Windows-based Firmware Upgrade Utility provides a smooth, automated process for upgrading the KVM switch's firmware. The Utility comes as part of a Firmware Upgrade Package that is specific for each device. Check the web site regularly to find the latest packages and information relating to them: http://www.iogear.com

Before you Begin

1. From a computer that is not part of your KVM installation go to our website site support section and choose the model name that relates to your device to get a list of available Firmware Upgrade Packages.
2. Choose the Firmware Upgrade Package you want to install (usually the most recent), and download it to your computer.
3. Power off the switch. Unplug the KVM cables from the back of the switch. If you are using a power adapter, unplug it and remove its connector from the switch's power jack. Connect one of the USB DVI KVM cable set's Type A USB connectors to a USB hub port on your computer.
4. At the other end of the USB DVI KVM cable set, connect the USB Type B connector to the Type A USB port in the Port 1 KVM section.

Note: The USB DVI KVM cable set's USB Type B connector can be connected to any USB Type KVM port section, but the Port selection pushbutton in Step 5, below, must be Port 1.

5. Invoke Firmware Upgrade Mode (see Firmware Upgrade Mode, page 24). The front panel orange LEDs flash to indicate that Firmware Upgrade Mode is in effect.



Starting the Upgrade

1. Run the downloaded Firmware Upgrade Package file – either by double clicking the file icon, or using a command line to enter the full path. The Firmware Upgrade Utility Welcome screen appears:
2. Read the License Agreement (click the I Agree button).
3. Click Next. The Firmware Upgrade Utility main screen appears. The Utility inspects your installation. All the devices capable of being upgraded by the package are listed in the Device List panel.
4. As you select a device in the list, its description appears in the Device Description panel. After you have made your device selection(s), Click Next to perform the upgrade. If you enabled Check Firmware Version, the Utility compares the device's firmware level with that of the upgrade files. If the device's version is higher than the upgrade version, a dialog box gives you the option to Continue or Cancel.

If you didn't enable Check Firmware Version, the Utility installs the upgrade files without checking whether they are a higher level, or not.

Upgrade Succeeded

After the upgrade has completed, a screen appears to inform you that the procedure was successful:

Click Finish to close the Firmware Upgrade Utility. After a successful completion, the KVM exits Firmware Upgrade Mode, and resets itself.

Upgrade Failed

If the Upgrade Succeeded screen doesn't appear, it means that the upgrade failed to complete successfully, in which case you should do the following:

1. Power off the KVM by removing the power jack.
2. Invoke Firmware Upgrade Mode by holding down the Port 1 button on the front panel and power on the KVM. The orange LEDs will flash together.
3. Do the firmware upgrade procedure again.

Troubleshooting

Symptom	Possible Cause	Action
Mouse / Keyboard not responding.	Improper mouse and/ or keyboard reset.	Unplug the cable(s) from the console port(s),then plug it/them back in.
USB devices not responding.	KVM switch needs to be reset.	Power off all devices on the installation. Power off the KVM switch; wait five seconds; then power up
There are ghost images on the external monitor.	USB ports need to reset.	Unplug the device's USB cable from the USB port on the switch's rear panel, then plug it back in.
	PC or OS does not support USB 2.0.	The CS1782 has a built-in USB 2.0 hub, so will not support PCs or OS that do not support USB 2.0.
	The distance between the external console and the CS1782 is too great. The maximum VGA cable distance should not exceed 20m and, in some cases, may need to be shorter. Replace the VGA cable with one of an appropriately short length.	

Specifications

Function		GCS1782G	
Computer Connections	2		
CPU Port Selection	Front Panel Pushbuttons; Hotkey, Mouse		
Console Connectors	Keyboard	1 x USB Type A F (black, rear panel)	
	Mouse	1 x USB Type A F (black, rear panel)	
	Video	1 x DVI-I F (white)	
	Audio	Line Out Port	2 x Mini Stereo Jack F (green; 1 x front panel, 1 x rear panel
		Line In Port	1 x Mini Stereo Jack F (blue)
		Microphone Port	2 x Mini Stereo Jack F (pink; 1 x front panel, 1 x rear panel)
		Side Speaker Out Port	1 x Mini Stereo Jack F (gray)
		Rear Speaker Out Port	1 x Mini Stereo Jack F (black)
		Center/Subwoofer Port	1 x Mini Stereo Jack F (orange)
Power Consumption	DC 5.3V, 4.8W		

Function		GCS1782G	
Computer Connectors	KB / Mouse	2 x USB 1.1 Type B (white)	
	Video	2 x DVI-I F (white)	
	Audio	Line Out Port	2 x Mini Stereo Jack F (green)
		Line In Port	2 x Mini Stereo Jack F (blue)
		Microphone Port	2 x Mini Stereo Jack F
		Side Speaker Out Port	2 x Mini Stereo Jack F (gray)
		Rear Speaker Out Port	2 x Mini Stereo Jack F (black)
		Center/Subwoofer Port	2 x Mini Stereo Jack F (orange)
	Power	1 x DC 5.3V Jack	
	USB Hub	2 x USB 2.0 Type A (black)	

Switches	Selected	2 x Pushbutton
LEDs	On Line	2 x (Orange)
	USB Link	2 x (Green)

FAQ

1. **What is the difference between DVI-A, DVI-D and DVI-I?**
   DVI-A – The “A” stands for analog, which it supports analog DVI signal
   DVI-D – The “D” stands for digital, which it supports digital DVI signal
   DVI-I – The “I” stands for intergraded, which it supports both analog and digital DVI signals

2. **If you have a DVI monitor with both DVI and VGA computers and you would like to connect them through our GCS1102/GCS1104, what should you do and what do you ..... need to know?**
   a. Please make sure that both monitor and monitor cable are DVI-I supported*
   b. A VGA Male to Male cable for each of your VGA computer is required**
   c. A VGA Female to DVI-A Male Adapter for each of your VGA computer is required***

   *DVI-I Male to Male Cable (G2LDI006) is available and sold separately at www.iogar.com
   **VGA Male to Male Cable (G2LVGA006) is available and sold separately at www.iogear.com.
   ***VGA Female to DVI-A Male Adapter (GDVIMVGAF) is available and sold separately at www.iogear.com.

   If you meet all the requirements above, then you can follow the below instructions to setup your KVM.Please make sure all devices are turned off before you start.

For the DVI computers:

Simply follow the instruction of the Installation Section.

For the VGA computers:

3. Connect each of your VGA video output with a VGA Male to Male cable.
4. Connect the other side of the VGA cable to the VGA connection on the DVI-A Male to VGA Female Adapter.
5. Connect the DVI-A connection to the CPU DVI port of the KVM.
6. Then use the provided DVI-D KVM cable for USB, audio and mic. connection ONLY.

For the Console DVI Port

Connect the DVI-I cable from the Console DVI port to the monitor.

SJ/T 11364-2006

The following contains information that relates to China.

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉（Cd）	六价 (Cr(VI))	多溴联苯（PBB）	多溴二苯醚（PBDE）
电器部件	●	○	○	○	○	○
机构部件	○	○	○	○	○	○

○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求之下。

●:表示符合欧盟的豁免条款，但该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

x: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

Compliance Information

FCC Statement
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 setting. This product generates, uses, and can radiate radio frequency energy and, if not installed and used as directed, it may cause harmful interference to radio communications. Although this product complies with the limits for a Class B digital device, there is no guarantee that interference will not occur in a particular installation.

CE Compliance
This device has been tested and found to comply with the following European Union directives: Electromagnetic Capability (89/336/EMC), Low Voltage (73/23/EEC) and R&TTED (1999/5/EC).

Limited Warrranty

Warranty Information
This product carries a 3 Year Limited Warranty. For the terms and conditions of this warranty, please go to http://www.iogear.com/support/warranty

Register online at https://www.iogear.com/registration

Important Product Information
Product Model _____
Serial Number _____

Contact

WE'RE HERE TO HELP YOU! NEED ASSISTANCE SETTING UP THIS PRODUCT?

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2. Visit **www.iogear.com/support** for live help and product support

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