

ACR GEAR

2 port / 4 port USB KVM switch
DVI-Interface

DAG12
DAG14



USB

User's manual

Rextron

Package Contents:

DAG12

2-Port AcroGear (DAG12)	x 1
User's manual	x 1
Rubber foot pad	x 1 set

DAG14

4-Port AcroGear (DAG14)	x 1
User's manual	x 1
Rubber foot pad	x 1 set



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Table of Content

Introduction

Overview.....	1
Features	2

System Requirements

Console side.....	3
Computer side	3

Installations

PC BIOS Notice.....	4
Console Connection.....	5
Computers Connection.....	6

Operations

Front Panel operation.....	7
Rack Mount Kit	9

Appendices

Specifications.....	10
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Troubleshooting	11
------------------------------	-----------



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

----- Introduction

Overview

The DAG12 and DAG14, fully compatible with USB specification, are combination of USB KVM (keyboard/Video/mouse) switch and USB peripherals sharing device. With the DAG12 or DAG14, you can easily operate up to 2 or 4 PCs, G3/G4 Macs, or iMacs respectively from 1 USB keyboard, 1 USB mouse, and 1 monitor saving you space, time, equipment and money. Its peripheral sharing function enables you to share more USB peripherals among all computers.

Installation is as easy as connecting USB A-B cables to computers and to the DAG switch. Computer selecting is as easy as front panel button pressing. The built-in USB hub ensures smooth switching from one computer to the other. The DAG switches provide the easiest way to manage multiple computers with USB interface and share USB peripherals among computers. No more tangled cables and messy working environment; let the DAG switch do the computer switching for you.

Features

- Manage 2 or 4 PCs, G3/G4 Macs, or iMacs from one USB keyboard, mouse and monitor with DAG12 and DAG14 respectively.
- 2 or 4 computers share up to 3 or 4 different USB peripherals with DAG12 and DAG14 respectively.
- Front panel push buttons for easy computer selection.
- No drivers needed for keyboard and mouse operation.
- Support keyboard and mouse plug-n-play.
- DVI interface.
- Buzzer sound for computer switching confirmation.
- Activate Auto Scan by front buttons pressing.
- Selectable Scan Time interval.
- Support the DVI-I monitor.
- Saves time, space, equipment and power.
- USB self-power operation.
- No software required.

----- **System Requirements**

Console side

- One DVI monitor
- One USB keyboard
- One USB mouse

Computer side

Each USB-enabled computer must be connected to the DAG switch by

- One DVI-I cable for monitor, as shown in figure 1.

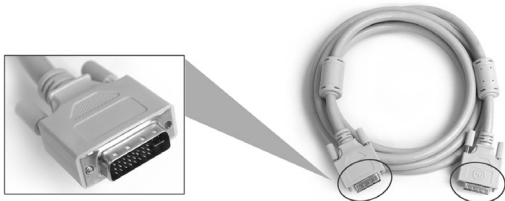


Figure 1. DVI-I cable

- One USB A-B cable with Type-A and Type-B plug for USB devices, as shown in figure 2.

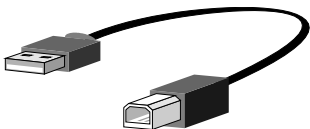


Figure 2. USB A-B cable

----- **Installation**

PC BIOS Notice

*The following BIOS setup changes are necessary for PC users and **not** necessary for Mac users:*

1. In STANDARD CMOS, set HALT ON ERROR to ALL BUT KEYBOARD.
2. In PNP AND PCI SETUP, set PNP OS INSTALLED to YES and set USB IRQ to ENABLED.

Note: The DAG switch is applicable for USB keyboard and mouse switching from one computer to the other. If you plan to share other peripherals such as a CCD camera, printer or scanner, it is required to shut down the driver of the computer before switching to another computer. Because port switching is equivalent to unplugging the USB cable from one computer and plugging it to another one, some USB drivers check attached USB peripherals all the time and do not accept plug-n-play function.

Console Connection

Before installation, make sure all devices and computers to be connected to the DAG switch have been turned off.

Plug a monitor to the Console's DVI-I port; plug a USB keyboard and a USB mouse to any two of the Console's USB ports as shown in figure 3.

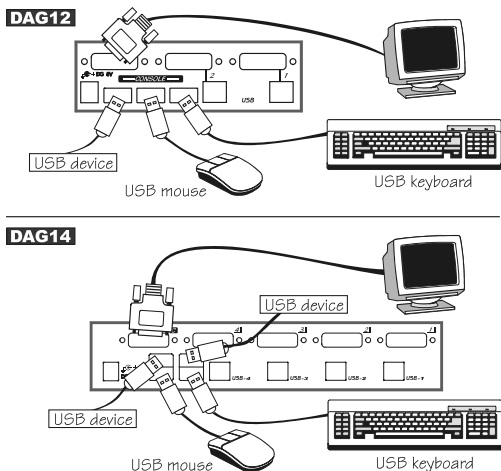


Figure 3. Console Connection

Computers Connection

Use a male-to-male cable to connect from a computer's DVI-I port to DAG's DVI-I port of **PC** side, as shown in figure 4.

Use a USB A-B Cable to connect from the DAG's **USB** port (B connector, square connector) to the USB port on the corresponding computer (A connector, flat connector), as shown in figure 4.

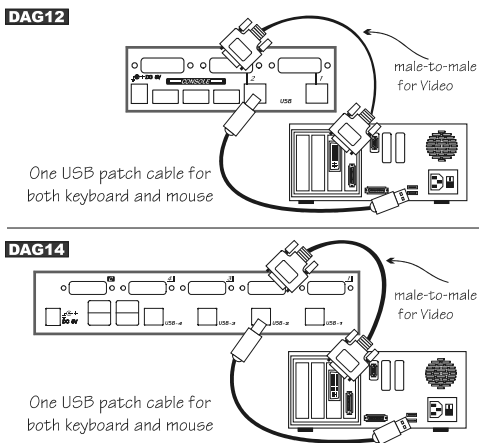


Figure. 4 Computer Connection

Now, you can turn on all devices and computers.

Operations

Front Panel

1. On-line LED & Selected LED

When the LED turns green, the connected computer is powered-on. When a computer is selected, its corresponding red LED illuminates.

2. Pushbuttons

Each computer has a button associated with it on the front panel for selection.

Auto Scan

Auto Scan automatically scan through computers one by one in a fixed interval (see *Scan Time* below).

Note: keyboard and mouse are not operable during Auto Scan.

Scan Time

It sets the scan interval for *Auto Scan*. The Scan Time options are 3, 8, 15 and 30 seconds.

Note: *Scan Time is automatically set to the default of 3 seconds when the DAG switch loses power.*

For DAG12

To activate the *Auto Scan*, press and hold the pushbutton down for 2 seconds till you hear a long beep followed by a short beep. To exit from it tap the pushbutton again.

To change the *Scan Time* interval, press and hold the pushbutton for 4 seconds till you hear two long beeps. Then by tapping the pushbutton each time, the DAG12 responds with 1, 2, 3 or 4 beeps corresponding to 3, 8, 15 or 30 seconds respectively. Once set, leave the DAG12 as it is and it will automatically return for normal operation.

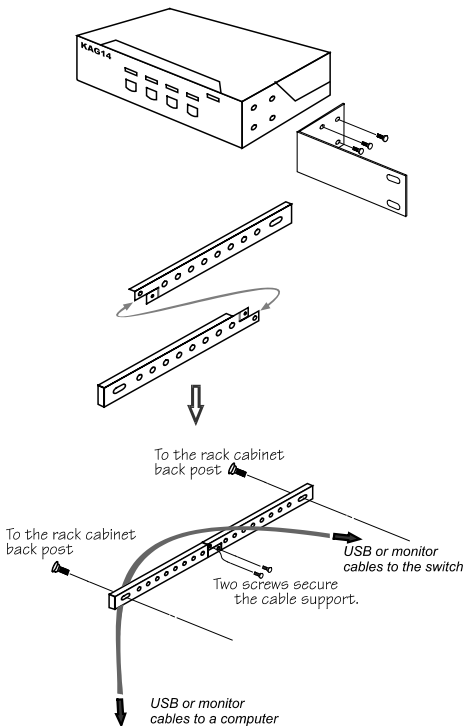
For DAG14

To activate *Auto Scan*, press down front panel push buttons "3" and "4" simultaneously. The port LED flashes during *Auto Scan*. *Auto Scan* is effective for powered-on computers only. To exit the *Auto Scan* mode, just tap any one of the pushbuttons.

To change the *Scan Time* interval, press both front panel buttons "1" and "2" simultaneously. The DAG14 beeps 1, 2, 3 or 4 times for *Scan Time* of 3, 8, 15 or 30 seconds respectively.

----- **Rack Mount Kit for DAG14 (optional)**

The figure below shows how to attach optional mounting brackets and cable support (RMK04) to the DAG14 for standard 19-inch rack cabinet.



Appendices

Specifications

Specification	DAG12	DAG14
No. of computers supported	2	4
Front panel push button	1	4
Hot plug-and-play	Yes	
Automatic scan interval	3, 8, 15, 30 seconds	
Cable Length (Max)	5M(15ft) for USB	
Computer ON-LINE LED	2	4
Computer selected LED	2	4
Monitor Type	DVI	
Computer peripheral connector	USB Type B x 2	USB Type B x 4
Monitor	DVI-I female x 2	DVI-I female x 4
Console peripheral connector	USB Type A x 3	USB Type A x 4
Monitor	DVI-I female x 1	DVI-I female x 1
Weight (g)	420	900
(oz.)	14.8	31.74
H x W x D (mm)	40 x 124 x 75	44 x 220 x 130
(in.)	1.6 x 4.9 x 2.9	1.7 x 8.7 x 5.1
size	Micro	Compact

----- Troubleshooting

Ensure that all cables are well seated. Label the cable for each computer to avoid confusion when connected to the DAG switch.

The DAG switch has built-in power protection that works automatically when needed. When it works, USB communication halts and the only way to restart the DAG switch properly is to remove all power sources (USB patch cables and power adapter), wait a few seconds, apply power sources and start again.

Symptom	Causes	Solutions
Keyboard or mouse does not work	<ul style="list-style-type: none"> ■ In Auto Scan, keyboard and mouse are not operable. ■ Too many keyboards or mouse drivers installed. 	<ul style="list-style-type: none"> ■ Press any front button to select a computer, then use the keyboard and mouse. ■ Remove ALL unnecessary keyboards and mouse drivers.
Newly installed USB device does not work.	<ul style="list-style-type: none"> ■ Improper device driver. ■ Device consumes too much power. ■ Device consumes too much power instantaneously. 	<ul style="list-style-type: none"> ■ Re-install device driver. ■ The device should be self-powered, add a power adapter to the device. ■ If the device does not provide power jack, add a power adapter with DC5V of less than

	<ul style="list-style-type: none"> ■ Improper device initialization. ■ When DAG switch works under self-power, i.e., no power supply added, it supports max of 100mA as per USB spec. 	<p>1A current rating to the DAG switch.</p> <ul style="list-style-type: none"> ■ Be sure the USB cable is well seated to ensure communication. ■ Remove all power sources to the DAG by unplugging all USB A-B cables and the power adapter; then start all over again. ■ Select the computer by pushbutton, restart the computer and try again.
Computer hangs up while switching computer.	<ul style="list-style-type: none"> ■ Device initialization takes too much time. 	<ul style="list-style-type: none"> ■ Wait at least 5 seconds before computer switching to ensure proper USB communication. ■ Turn off device driver (not keyboard nor mouse) before computer switching.
Auto Scan does not switch PC automatically and NovaView beeps	<ul style="list-style-type: none"> ■ All PCs are off or only one PC is turned on. Scan mode works for power-on computers only. 	<ul style="list-style-type: none"> ■ Turn computers on.

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