



## A 3096 USB VGA Audio 2Port Switcher



### CAUTION

This appliance is not intended for use by persons (including children) with reduced physical, sensory and mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.

### Disclaimer:

For repair or service please contact your place of purchase.

Note: Under no circumstances should you attempt to repair the player yourself or via a non-authorised Altronics service centre as this will invalidate the warranty!

During the warranty period, we undertake to repair or replace your product at no charge if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse, neglect, shipping accident, incorrect installation or no fault found.

### NOT FIELD SERVICEABLE.

Distributed by:

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## Operating Instructions

INTRODUCTION

This device is fully compatible with USB 2.0 specification. It is a combination of a USB KVM (Keyboard/Video/Mouse) switch and a USB peripherals sharing device.

You can easily operate two additional PCs, G3/G4 Macs, or Mac Pros respectively from one USB keyboard, one USB mouse, and one monitor, saving you space, time, equipment and money. Its peripheral sharing function enables you to share more USB peripherals among all computers.

The device also supports the distribution of an audio signal source to two speakers systems, as well as allowing two microphone inputs to feed into the main computer. Users can switch among two alternate media sources and enjoy the output on one single / dual display and one set of speakers.

FEATURES

- Supports USB Console.
- Supports video with the resolution up to 1600 x 1200 (UXGA), 1920 x 1200 (WUXGA), and Full HD (1920 x 1080p).
- Two computers share up to four different USB peripherals (KB + MS + USB Devices).
- Unique Tracking System enables the USB (or Audio) devices to operate independently.
- Front panel push buttons for easy computer selection.
- No drivers needed for keyboard and mouse operation.
- Support keyboard and mouse plug-n-play.
- Buzzer sound for computer switching.
- Hotkey functions allow easy computer access.
- Support Windows and Mac host systems.
- Selectable Scan Time Interval.
- No software required.

**Note:** Please read this manual thoroughly and follow the installation procedures to prevent any damage to the KVM switch or any connected devices.

PACKAGE CONTENTS

- KVM Switch x 1
- Power Adapter x 1
- User's Manual x 1
- Rubber Feet x 1 set of 4



VGA



USB



3.5mm Audio

SYSTEM REQUIREMENTS

Console:

- One monitor.
- One USB keyboard.
- One USB mouse.
- Microphone and speaker for audio.

Computer:

- USB-enabled computer.

Cables: [Pictured]

Each computer must be connected to the unit by:

- One video cable for a monitor device.
- One USB cable for operation as shown below
- Optional audio cable or KVM Cable with USB, or USB + Audio combination cable (not supplied).

INSTALLATION

SPECIFICATIONS Two - Port Switcher with VGA USB and Audio

Console Port	1	
Computer Port	2	
Front Panel Push Button	1	
Automatic Scan Interval	3, 8, 15, 30 Seconds	
Cable Length (Max)	3M (10ft) for USB	
Computer On-Line LED	2	
Computer Selected LED	2	
Hot Plug-and-Play	YES	
Console Interface (INPUT)	USB Port	4
	Keyboard	USB
	Mouse	USB
	Monitor	HDB15-F (VGA)
	Audio Jack	1 set (mic + speaker)
Computer Interface (OUTPUT)	Keyboard	USB 2.0
	Mouse	USB 2.0
	Monitor	HDB15-M (VGA)
	Audio Jack	2 Sets (mic + speaker)
Hotkey	YES	
OSD	NO	
Resolution Max	UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p)	
DDC2B Support	YES	
Video Interface	VGA	
Power Type	9-12 V d.c. (supplied)	
Dimensions H x W x D (mm)	40x160x100	

**TROUBLESHOOTING**

Ensure that all cables are well labelled in association with each computer to avoid confusion when connected to the unit. The unit has built-in power protection that works automatically when needed. When activated, USB communication halts and the only way to restart the unit 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	In Auto Scan, keyboard and mouse are not operable. Too many keyboards or mouse drivers installed.	<ul style="list-style-type: none"><li>• Press any front button to select a computer, then use the keyboard and mouse.</li><li>• Remove ALL unnecessary keyboards and mouse drivers.</li></ul>
Newly installed USB device does not work.	<ul style="list-style-type: none"><li>• Improper device driver.</li><li>• Device consumes too much power.</li><li>• Device consumes too much power instantaneously.</li><li>• Improper device initialization.</li><li>• When the unit operates under self power, i.e. no power supply added, it supports max of 100mA as per USB spec.</li></ul>	<ul style="list-style-type: none"><li>• Re-install device driver.</li><li>• The device should be self-powered. Add a power adapter to the device.</li><li>• Be sure the USB cable is plugged in properly to ensure communication.</li><li>• Remove all power sources to the unit by unplugging all USB A-B cables and the power adapter; then start all over again.</li><li>• Select the computer on the switcher, restart the computer and try again.</li></ul>
Computer hangs up while switching computers.	Device initialization takes too much time.	<ul style="list-style-type: none"><li>• Wait at least five seconds before computer switching to ensure proper USB communication.</li><li>• Turn off device driver (not keyboard or mouse) before computer switching.</li></ul>
Auto Scan does not switch PCs automatically and the unit beeps	All PCs are off or only one PC is turned on. Scan mode only works for computers that are switches on.	Turn computers on.

- Prior to the installation, please turn off all devices that will be connected to this system.
- Ensure that all devices you will connect are properly grounded.
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

**PC BIOS Notice:**

The following BIOS setup changes are necessary for PC users but 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:** This KVM series switcher is applicable for switching a USB keyboard and USB mouse from one computer to the other. If you plan to share other peripherals such as a CCD camera, printer or scanner, you need to shut down the computer driver before switching to another computer. This is because port switching is equivalent to unplugging the USB cable from one computer and plugging it into another, and some USB drivers check attached USB peripherals all the time, and do not support plug-n-play (PnP) functionality.

**Console Connection:**

1. Plug a monitor into the Console's video port; and a USB keyboard and USB mouse into the corresponding USB ports on the console.
2. For the standard audio feature, plug a set of audio jacks from the speaker and microphone to the console's speaker port and microphone port respectively.
3. Plug USB peripherals into the port USB 1 and/or USB 2 on the Console side if needed.

**COMPUTER CONNECTION**

1. Use a male-to-female video cable to connect both video ports on the computer and the unit's PC side.
2. Use a USB A-B type cable to connect the unit's USB port (B type, square connector) and the USB port on the corresponding computer (A type, flat connector).
3. For audio, use a set of audio cables to connect the speaker port and microphone port between the computer side of the unit and the corresponding computer.
4. Plug the power adaptor from an appropriate KVM Cable with USB (or USB+ Audio) for easy installation

**NOTE:** Users may use a combination KVM Cable with USB (or USB+ Audio) for easy installation

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**OPERATION**

**Front Panel**

**LED Indicators:**

The LED turns green when the connected computer is powered-on. Its corresponding LED illuminates red when a connected computer is currently selected.

**Pushbuttons:**

Each button on the front panel is used to select a certain connected computer.

**Scan Time:**

Four options are available for users to set the duration of the Scan Time, ranging across 3, 8, 15 and 30 seconds. To change the Scan Time, press both front panel buttons "1" and "2" simultaneously. The unit responds with 1, 2, 3 or 4 beeps for each Scan Time of 3, 8, 15 or 30 seconds respectively. Alternatively, see hot key information.

**NOTES:**

- Scan Time is set to three seconds as default after a blackout or reboot.
- If users encounter no screen display in computer connection:
  - Make sure the device cables are correctly and firmly attached.
  - Set your Display device's input source as VGA.
  - Check the PC BIOS configuration for the video output setting.
  - Directly connect your computer to the display to check if the video signal gets through.

## HOTKEY COMMANDS

A Hotkey command is a short keyboard sequence for selecting a computer, activating computer scan, etc. The KVM Switch interprets keystrokes for hotkeys all the time. A built-in buzzer generates a high-pitched beep for a correct hotkey command. One low-pitched beep is generated for an error and the bad key sequence will not be forwarded to the selected computer.

### NOTE:

- Do not use the numeric keypad at the right of the keyboard during hotkey processes.
- A hotkey sequence starts with two left CTRL keystrokes (successively in 0.2 seconds) followed by one or two more keystrokes.

### Enable Hotkey:

Press and hold Left Shift and press Num Lock twice, then release Shift followed by pressing left CTRL once, which will enable / disable the hotkey function.

### To select a computer:

(Example: Selects the computer at port 1.)

Press Left CTRL + Press Left CTRL + Press 1

(Example: Selects the computer at port 2.)

Press Left CTRL + Press Left CTRL + Press 2

### To start auto scan mode:

Press Left CTRL + left CTRL + press F1

When auto scan detects any keyboard or mouse activity, it suspends the scanning until the activity stops. To abort auto scan mode, press the left CTRL key twice.

Manual scan allows users to manually switch back and forth between POWER ON computers.

To use this press Left CTRL + press Left CTRL + Press F2

To select the other computer press up or down arrow

To adjust scan rate (ie set the time duration) before switching to the next computer

Press left CTRL + press left CTRL + press F3

The A 3096 switch generates 1 to 4 beeps indicating the scan time duration for 3, 8, 15, and 30 seconds respectively.

### Audio Stick:

An optional multimedia module can be linked to the rear of each KVM switch for selecting microphone and stereo speaker signals. There are two options for Audio Stick: ON and OFF. When set to ON, audio selection follows computer selection. When set to OFF, audio selection stops following computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers.

To turn ON or OFF press Left CTRL + Press Left CTRL + Press F5

The KVM switch beeps once or twice corresponding to ON and OFF respectively.

To force the audio signal to follow the selected computer, use the following hotkey:

Press Left CTRL + Press Left CTRL + Press A

### USB-Port Rule:

There are two options for setting the rule of USB 1 and USB 2 on the Console side:

When set to ON, USB-Port selection follows computer selection.

When set to OFF, USB-Port selection stops following computer selection.

### USB port setting for 2-Port Type:

Use the hotkey below to turn ON or OFF both the USB 1 and USB 2 port rule.

Press Left CTRL + Press Left CTRL + Press F7

To force the USB to follow the selected computer, press the following hotkey

Press Left CTRL + Press Left CTRL + Press U

**NOTE:** Please make sure that the linking procedure of USB device has been accomplished before switching to the next computer.

### Alternative Hotkey Commands:

In addition to the Left CTRL + Left CTRL hotkeys, there are two alternative hotkey sequences available.

1. For the following operations, users may press Scroll Lock twice instead of pressing Left CTRL twice.

### To select a computer:

Press Scroll Lock + Press Scroll Lock + Press 1

(Example: Select the computer at port 1.)

Press Scroll Lock + Press Scroll Lock + Press 2

(Example: Select the computer at port 2.)

2. For those keyboards do not have or support Scroll Lock, please press and hold the Left Shift and press Num Lock twice instead of pressing Left CTRL twice.

### To select a computer:

Hold Left Shift + Press Num Lock + Press Num Lock then release shift + Press 1

(Example: Select the computer at port 1.)

Hold Left Shift + Press Num Lock + Press Num Lock then release shift + Press 2

(Example: Select the computer at port 2.)

Figure 1: 2 Port KVM Connection Diagram

