MONOPRICE

2-Port USB and HDMI® KVM Switch

P/N 38295

User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessive vibration.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near a heat source, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Ensure that power is turned off and disconnected before making any electrical connections.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

This 2-Port USB and HDMI® KVM Switch allows you to use a single HDMI monitor, USB keyboard, USB mouse, microphone, and headset/speakers with two desktop or laptop computers. You can easily switch computers using the built-in Port Selector, keyboard hotkeys, or with a simple double-click of the mouse wheel. It supports HDMI video resolutions up to 1900x1200 and is compatible with Windows®, Mac®, Linux®, UNIX®, Novell® NetWare®, and DOS PCs. It features Video DynaSync™ technology, which eliminates boot-up display problems and optimizes the video resolution when switching ports. The KVM and audio focus can be separated, so one computer can have the KVM focus and the other the audio focus. If one of the connected computers is powered off, the switch will automatically select the other computer.

FEATURES

- Includes two sets of 3.9-foot USB, HDMI®, and audio cables built-in for connecting the two computers
- Allows computer selection using the dedicated Remote Port Selector button, keyboard hotkey, or with the simple double-click of the mouse wheel
- Supports independent KVM and audio selection, one computer can have the KVM focus, while the other has the audio focus
- Supports HDMI resolutions up to 1900x1200
- Features Video DynaSync™ technology, which eliminates boot-up display problems and optimizes the video resolution when switching ports
- Compatible with Windows®, Mac®, Linux®, UNIX®, Novell® NetWare®, and DOS PCs
- Features independent KVM and audio computer selection
- Supports gaming and multimedia keyboards
- Supports multifunction and wireless keyboards and mice
- The console mouse port emulation/bypass feature supports most mouse drivers
- Features Mac keyboard support and emulation
- Supports US English, French, and Japanese keyboard layouts
- Supports firmware upgrading
- Requires no external power connection

CUSTOMER SERVICE

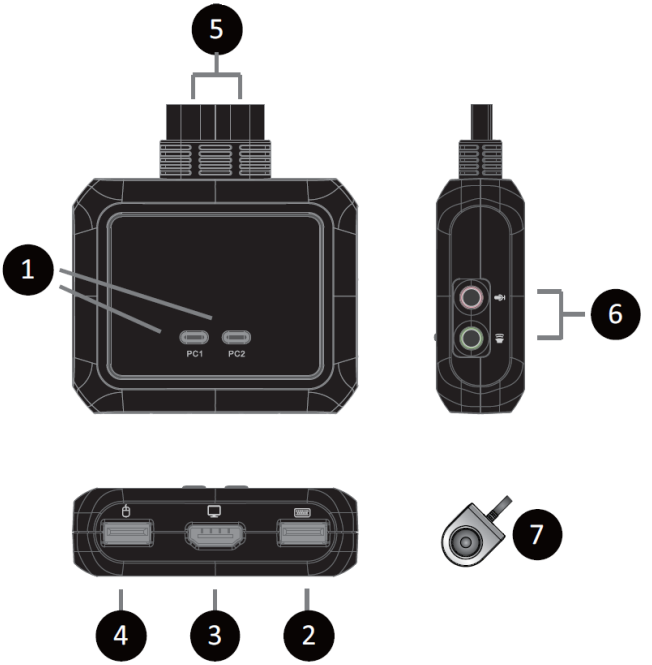
The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website **www.monoprice.com** or via email at **support@monoprice.com**. Check the website for support times and links.

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

- 1x 2-Port KVM Switch
- 2x Hotkey Stickers
- 1x User's Manual
- 1x Quick Start Guide

PRODUCT OVERVIEW



1. **Port LEDs:** Two LEDs to indicate the selected computer and its status. The LED illuminates solid when the corresponding computer is selected. The LED flashes when the corresponding computer is being scanned by the Auto Scan function. The LED is off when the corresponding computer is not selected.
2. **Console Keyboard Port:** Plug your USB keyboard into this port.
3. **Console Monitor Port:** Plug your HDMI® display into this port.
4. **Console Mouse Port:** Plug your USB mouse into this port.
5. **KVM Cables:** Two sets of USB, HDMI, and audio cables for connecting the two computers.

6. **Console Audio Ports:** 3.5mm jacks for connecting a microphone and headphones/speakers. Note that if your HDMI display has speakers, you do not need to connect headphones/speakers, unless you want to use separate the KVM and audio focus feature.
7. **Remote Port Selector:** Momentarily press the button to switch computer selection. Press and hold the button for 3 seconds to swap the default **Hotkey Prefix** between **Scroll Lock** and **Ctrl**.

OPERATING SYSTEM COMPATIBILITY

The following table details the specific operating system versions supported by the KVM.

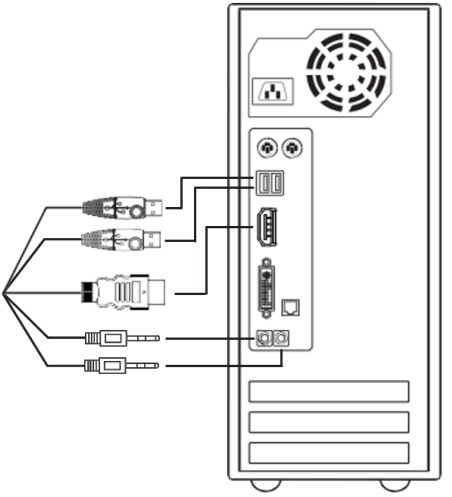
OS		Version
Windows®		2000 / XP / 2003 / 2008 / Vista® / 7
Linux®	RedHat	9.0 / Fedora and higher
	SuSE	10 / 11.1 and higher
	Ubuntu	7.04 / 7.10
UNIX®	FreeBSD	5.5 / 6.1 / 6.2
Novell®	NetWare®	6.0 / 6.5
Mac®		OS 9 and higher
DOS		6.2 and higher

INSTALLATION

Perform the following steps to install this KVM switch.



1. Ensure that all equipment to be connected is powered off and unplugged from its power source. This is especially true for computers that have the **Keyboard Power On** feature.
2. Plug your USB keyboard into the **Console Keyboard Port** on the switch.
3. Plug your HDMI® display into the **Console Monitor Port** on the switch.
4. Plug your USB mouse or graphics tablet into the **Console Mouse Port** on the switch.
5. (Optional) Plug a microphone into the 3.5mm **Console Audio Port** with the pink plastic ring.
6. (Optional) Plug a pair of headphones or powered speakers into the 3.5mm **Console Audio Port** with the green plastic ring. Note that if your HDMI display has speakers, you do not need to use external headphones/speakers, unless you want to use the separate KVM and audio focus feature.



7. Plug the two USB, one HDMI®, and two audio cables on one of the **KVM Cables** into the appropriate ports on the first computer.
8. Repeat step 7 for the second **KVM Cable** and second computer.
9. Plug in and power on both computers. By default, the switch will select the first computer that is powered on.

Note: The USB ports are standard USB 2.0 ports and can accept any USB peripheral. If you want to use additional peripherals, plug a USB hub into one of the two USB ports, then plug the keyboard, mouse, and additional peripheral(s) into the hub.

OPERATION

This KVM switch supports three different methods of switching the selected computer, which are detailed in the following sections.

Important Note: Do not switch focus when a USB peripheral, other than the keyboard and mouse, is in active operation. Doing so could result in data loss and/or file corruption.

Manual Switching

Momentarily press the button on the **Remote Port Selector** to manually switch the KVM and audio focus from one computer to the other.

Mouse Switching

Double-click the mouse wheel button to swap the KVM and audio focus from one computer to the other.

Notes:

1. This method is only supported by USB 3-button mice with a scroll wheel.
2. The function is not available by default. It must be enabled by first enabling **Mouse Emulation** with the hotkey command ([m] [Enter]), then turning on the **Scroll Wheel Switching** function ([w] [Enter]).

Hotkey Switching

The hotkey method of switching offers the most flexibility in that you can independently switch the KVM and audio focus. All hotkey commands are prefaced with the **Hotkey Prefix**, which by default is two presses of the **[Scroll Lock]** key. To swap the KVM and audio focus from one computer to the other, type:

[Scroll Lock] [Scroll Lock] [Enter]

HOTKEY SUMMARY

In order to function, hotkeys in the following table must be prefaced with the **Hotkey Prefix**. By default the **Hotkey Prefix** is:

[Scroll Lock] [Scroll Lock]

By pressing and holding the **Remote Port Selector** for 3 seconds, you can swap the **Hotkey Prefix** between the default and the following:

[Ctrl] [Ctrl]

Note that the following key names in the **Hotkey Combination** column are enclosed in brackets. The brackets should not be typed.

Hotkey Combination	Function
[Enter]	Toggles the KVM and Audio focus between the two computers. Note that if the KVM and Audio focus are on different computers, only the KVM focus switches.
[k] [Enter]	Toggles the KVM focus only.
[s] [Enter]	Toggles the Audio focus only. Note that this function requires the use of external headphones/speakers.
[a] [Enter]	Starts Auto Scan. The KVM focus cycles from computer to computer at the default 5 second scan interval. To exit Auto Scan, press [Esc] or [Spacebar].
[a] [Enter] [n]	Starts Auto Scan. The KVM focus cycles from computer to computer an **n** second intervals. Replace **n** with a number between 1-4, where 1=3 seconds, 2=5 seconds (default), 3=10 seconds, and 4=20 seconds. To exit Auto Scan, press [Esc] or [Spacebar].

[x] [Enter]	Toggles the Hotkey Prefix key between [Scroll Lock] and [Ctrl].
[m] [Enter]	Enables or disables the mouse emulation feature.
[n] [Enter]	Enables or disables keyboard emulation.
[w] [Enter]	Enables or disables the mouse scroll wheel switching function.
[F2] [Enter]	Activates Mac® keyboard mapping.
[F10] [Enter]	Automatically detects and sets the keyboard operating platform.
[F4] [Enter]	Lists the current switch settings.
[F5] [Enter]	Performs a USB keyboard and mouse reset.
[F6] [nn] [Enter]	Sets the keyboard language layout. Note than the [nn] is a two digit number that represents one of the following language codes: 33=US English, 08=French, and 15=Japanese.
[d] [Enter]	Invokes the Video DynaSync™ function, which eliminates boot-up display problems and optimizes the video resolution when switching ports.
[e] [Enter]	Enables or disables the Power On Detection feature, which automatically switches the focus if one computer is powered off.
[r] [Enter]	Resets all hotkeys to the default setting.

Note: When Keyboard Emulation is disabled, the [m], [w], [F2], [F4], [F5], [F6], and [F10] hotkeys are disabled.

KEYBOARD EMULATION

PC Keyboard	Mac® Keyboard
[Shift]	Shift
[Ctrl]	Ctrl
	
[Ctrl] + [1]	
[Ctrl] + [2]	
[Ctrl] + [3]	
[Ctrl] + [4]	
[Alt]	Alt
[Print Screen]	F13
[Scroll Lock]	F14
	=
[Enter]	Return
[Backspace]	Delete
[Insert]	Help
[Ctrl] + 	F15

UPDATING THE FIRMWARE

The firmware of this KVM may be updated at some point in the future. If this is done, a **Firmware Upgrade Package** will be made available on the **www.monoprice.com** website on the **38295** product page. Perform the following steps to update the firmware.

1. Using a computer that is not part of your KVM installation, point your browser to **www.monoprice.com**, then type **38295** in the search bar to go to the product page.
2. Scroll to the bottom of the page, then click the **Firmware Upgrade Package** link to download the file.
3. Extract the files from the downloaded zip file.
4. Disconnect the KVM switch from the two computers it is connected to.
5. Press and hold the **Remote Port Selector** button. While still holding the button, plug the KVM's purple USB connector into the computer that downloaded the **Firmware Upgrade Package**. The two **Port LEDs** will begin flashing, indicating that the KVM switch is in **Firmware Upgrade Mode**.

   Note: While in **Firmware Upgrade Mode**, normal keyboard and mouse functions are suspended. You must complete the firmware upgrade or exit Firmware Upgrade Mode to regain normal control of the console.
6. Run the **Firmware Upgrade Package** from the location you extracted it to.
7. After the Welcome screen clears, read the License Agreement, then click the **I Agree** button.
8. Click **Next** to continue. The upgrade Main screen appears, which lists all the devices capable of being upgraded in the **Devices List** panel.
9. Select the KVM switch, the click **Next** to perform the upgrade.

10. After the upgrade has completed, a screen appears to inform you the procedure was successful. Click the **Finish** button to close the upgrade utility.
11. Install the KVM back into your previous setup, following the instructions in the *INSTALLATION* section.

UPGRADE FAILURE

Perform the following steps in the event that the Upgrade Successful screen does not appear.

1. Disconnect the USB cables on the KVM switch from the computer.
2. Press and hold the button on the **Remote Port Selector**. While still holding the button, plug the KVM switch's purple USB cable into the computer.
3. Power on the KVM switch. It will now function with the factory default firmware.
4. Perform steps 6-11 in the *UPDATING THE FIRMWARE* section above.

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website **www.monoprice.com** or through email by sending a message to **tech@monoprice.com**. Check the website for support times and links.

SPECIFICATIONS

Model	38295
Computers Connections	2
Console Connections	1
Computer Selection	Remote Port Selector, Keyboard Hotkeys, Mouse Scroll Wheel
Supported Video Type	HDMI®
Supported Video Resolutions	1920x1200, including 1920x1080p
KVM Cable Length	2x 3.9 ft. (1.2m)
Remote Port Selector Cable Length	1x 5.9 ft. (1.8m)
Scan Interval	3, 5 (default), 10, and 20 seconds
Power Consumption	5 VDC, 0.53 amps, 2.65 watts
Operating Temperature	+32 ~ +122°F (0 ~ +50°C)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Operating Humidity	0 ~ 80% RH, noncondensing
Dimensions	6.7" x 8.2" x 2.7" (170 x 208 x 67 mm)
Weight	0.9 lbs. (0.41 kg)

REGULATORY COMPLIANCE

EMC Information

FEDERAL COMMUNICATIONS COMMISSION STATEMENT:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Warning: Operation of this equipment in a residential environment could cause radio interference

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

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