

ROLINE KVM Switch, 1 User - 2 PCs, DisplayPort, with USB Hub

14.01.3327



User Manual



Please read this manual thoroughly and follow the **Installation** Procedures to prevent any damage to the KVM switch or any connecting device.

- *The final specifications are actual product based.*
- *Features and functions may be added or changed since the manual was written.*
- *To prevent damages to your installation, it is important that all devices are properly grounded.*

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Introduction

Overview

DisplayPort KVM Switch (14.01.3327) with hotkey control, fully compatible with USB specification, is the combination of USB KVM switch and USB peripherals sharing device. The DisplayPort display supports the resolution up to UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p), WQXGA (2560 x 1600). You can easily operate 2 PCs from a single set of USB keyboard, USB mouse, and monitor, saving you space, time, equipment and money. Its peripheral sharing function enables you to share more USB peripherals among all computers. Users can switch between 2 media sources and enjoy the output on one single DisplayPort display.

The installation is easy as you have to connect an USB A-B cable between the computers and the KVM switch. Computer selecting can be done by pressing the front panel button. The built-in USB hub ensures smooth switching from one computer to the other. The KVM switch provides the easiest way to manage multiple computers with USB interface and share USB peripherals among computers. It simply reduces redundant cables and encourages a neat and tidy working environment.

Features

- Supports DisplayPort Display
- Supports USB Console
- Support Video Single Link with the resolution up to UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p), WQXGA (2560 x 1600)
- 2 computers share up to 3 different USB peripherals (Keyboard, Mouse + USB Device)
- Screw-free design, streamlined form factor for new all digital desktop monitors
- Unique Tracking System enables the USB 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 confirmation
- Hotkey functions allows easily computer access
- Selectable Scan Time interval
- No software required
- Supports Windows and Mac host systems

System Requirements

Console side

- One DisplayPort monitor
- One USB Keyboard
- One USB mouse

Computer side

Each USB-enabled computer must be connected to the unit by

- One DisplayPort cable for monitor, as shown.



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



Installation

- Prior to installation, please power 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 and **not** necessary for Mac users:*

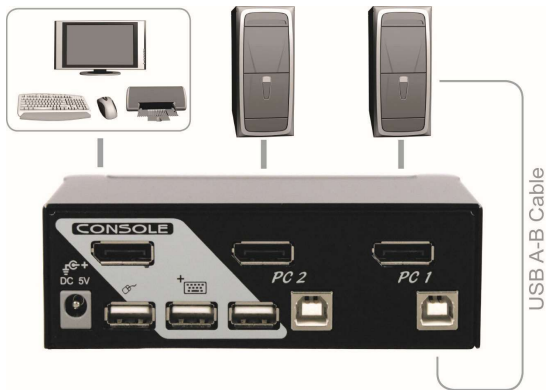
1. In STANDARD CMOS, set HALT ON ERROR to ALL BUT KEYBOARD.
2. In PNP AND PCI SETUP, set PNP OS INSTALLED to YES and set USB IRQ to ENABLED.

Note: 14.01.3327 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 support plug-n-play function.

Console Connection

Plug one monitor into the Console's Video port, a USB keyboard into the keyboard icon marked USB port on the Console, and a USB mouse into either of the two Console's USB peripheral ports. If needed, plug an USB peripheral (such as an USB printer) into the other USB peripheral port on the Console side as shown below.



Computer Connection

Use a male-to-male cable to connect both video ports on the computer and the unit's **PC**.

Use an USB A-B Cable to connect the unit's **USB** port (B connector, square connector) and the USB port on the corresponding computer (A connector, flat connector) as shown below.



Operations

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 selected.

Push Button

A single push button on the front panel is used to switch ports between the two connected computers.

Auto Scan

The system automatically scans through the power-on computers in sequence with a fixed interval (see *Scan Time* below). The Auto Scan can be activated or

aborted through the hotkey command (see “Hotkey Commands” in the following section).

Scan Time

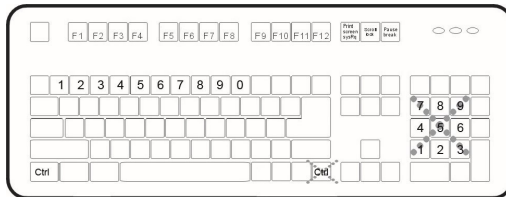
Four options are available for users to set the duration of the Scan Time : 3, 8, 15 and 30 seconds (see “Hotkey Commands” in the following section).

Note: Scan Time is set to 3 seconds as default after blackout or reboot.

Hotkey Commands

A Hotkey command is a short keyboard sequence for selecting a computer, activating a computer scan, etc. The KVM Switch interprets keystrokes for hotkeys all the time. A hotkey sequence starts with two left **Ctrl** keystrokes (successively in 0.2 seconds) followed by one or two more keystrokes. A built-in buzzer generates a high-pitch beep for correct hotkey command; otherwise, one low-pitch beep generated for an error and the bad key sequence will not be forwarded to the selected computer.

NOTE: 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**

NOTE: Do not use the keypad at the right of the keyboard.

- To start *Auto Scan*:

Press **Left Ctrl** + Press **Left Ctrl** + Press **F1**

To abort the *Auto Scan*:

Press the **Left Ctrl** + Press **Left Ctrl**

When *Auto Scan* detects any keyboard or mouse activity, it suspends the scanning till the activity stops; it then resumes with the next computer in sequence. The length of the *Auto Scan* interval (*Scan Rate*) is adjustable, see below.

- *Manual Scan* allows users to manually switch back and forth between power-on computers. Press **Left Ctrl** + Press **Left Ctrl** + Press **F2**

To select the previous or the next computer, press **↑** or **↓** in sequence. To abort the *Manual Scan*:

Press any other key

- To adjust *Scan Rate*, set the duration of scan time before switching to the next computer: Press **Left Ctrl** + Press **Left Ctrl** + Press **F3**

The KVM Switch generates 1 to 4 beeps indicating duration of scan time for **3**, **8**, **15** and **30** seconds respectively.

- *USB-Port Rule*

There are two options for the USB peripheral port setting on the Console side:

When set to '**ON**', the USB peripheral port follows computer selection.

When set to '**OFF**', the USB peripheral port stops to follow computer selection.

Press the hotkey below to alternatively turn ON/OFF the USB Port Rule

Press **Left Ctrl** + Press **Left Ctrl** + Press **F7**

Force the USB peripheral port following and staying with the currently selected computer by pressing the following hotkey

Press **Left Ctrl** + Press **Left Ctrl** + Press **U**

NOTE: Please make sure that 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 alternatives for hotkey commands.

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.)

NOTE: Do not use the keypad at the right of the keyboard.

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.) **NOTE: Do not use the keypad at the right of the keyboard.**

Appendix

Specifications

Specification		14.01.3327
Console Port		1
Computer Port		2
Front panel push button		1
Hot plug-and-play		Yes
Automatic scan interval		3, 8, 15, 30 seconds
Cable Length (Max)		3M(10ft) for USB
Computer ON-LINE LED		2
Computer Selected LED		2
Computer Interface	KB	USB Type B x2
	MS	
	Monitor	DisplayPort female x2
Console Interface	KB	USB Type A x3
	MS	
	Monitor	DisplayPort female x1
Hot Key		Yes
Resolution		2560 x 1600
DDC2B Support		Yes
H x W x D (mm) (in.) size		40 x 125 x 70 1.6 x 4.9 x 2.8 Compact

Troubleshooting

Ensure that all cables are well seated and labeled, associated with each computer to avoid confusion when connected to the unit.

The unit has built-in power protection that works automatically when needed. When it works, 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, cause, solution

Symptom	Cause	Solution
Keyboard or mouse does not work	<ul style="list-style-type: none"><input type="checkbox"/> In Auto Scan, keyboard and mouse are not operable.<input type="checkbox"/> Too many keyboards or mouse drivers installed.	<ul style="list-style-type: none"><input type="checkbox"/> Press push button to select a computer, then use the keyboard and mouse.<input type="checkbox"/> Remove ALL unnecessary keyboards and mouse drivers.
Newly installed USB device does not work.	<ul style="list-style-type: none"><input type="checkbox"/> Improper device driver.<input type="checkbox"/> Device consumes too much power.<input type="checkbox"/> Device consumes too much power instantaneously.<input type="checkbox"/> Improper device initialization.<input type="checkbox"/> When the unit works with self-power, i.e., no power supply is added, it supports max. 100mA, as per USB specification.	<ul style="list-style-type: none"><input type="checkbox"/> Re-install device driver.<input type="checkbox"/> The device should be self-powered, add a power adapter to the device.<input type="checkbox"/> If the device does not provide power jack, add a power adapter with DC5V of less than 1A current rating to the unit.<input type="checkbox"/> Be sure the USB cable is well seated to ensure communication.<input type="checkbox"/> Remove all power sources to the unit by unplugging all USB A-B cables and the power adapter; then start all over again.<input type="checkbox"/> Select the computer by push button, restart the computer and try again.
Computer hangs up while switching computer.	<ul style="list-style-type: none"><input type="checkbox"/> Device initialization takes too much time.	<ul style="list-style-type: none"><input type="checkbox"/> Wait at least 5 seconds before computer switching to ensure proper USB communication.<input type="checkbox"/> Turn off device driver (not keyboard or mouse) before computer switching.

Auto Scan does not switch PC automatically and the unit beeps	<input type="checkbox"/> All PCs are off or only one PC is turned on. Scan mode works for power-on computers only.	<input type="checkbox"/> Turn computers on.
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Package Content

2-Port KVM Switch (14.01.3327)	x 1
User's manual	x 1
Rubber foot pad	x 1 set