



## Switch between two DVI sources

### Optional Accessories



RMT IR Extender



RMT-2

### 2x1 DVI KVM SL Switcher

#### Switch Single Link DVI, USB 2.0 & Audio between Two Computers (PC or Mac)

The extend-it 2x1 DVIKVM SL Switcher allows you to easily switch between two cross-platform DVI computers using just one DVI display and USB 2.0 keyboard and mouse. It's referred to as single link DVI to differentiate it from dual link DVI. Single link describes the standard use of DVI, capable of resolutions up to 1920x1200; dual link DVI describes the use of all 24 pins of the DVI connector to achieve resolutions up to 3840x2400. USB 2.0, also known as hi-speed USB, is the next generation of USB capable of sending data significantly quicker than before. Stereo audio is routed through along with the video to the display. Audio, video and control signals are "switched" for each computer upon selection, providing you with an easy and effective method of accessing two computers from one workstation without the hassle of networking. The DVI SL Switcher has automatic EQ circuitry built in that will improve the video quality when low quality DVI cables are connected to the switcher.

#### How It Works

You simply connect your DVI display and USB 2.0 keyboard/mouse to the Switcher's outputs. Then you connect both computers' DVI, USB and audio ports to the Switcher's inputs using the supplied cables. From there, you select the computer you want using the IR remote that comes with the unit or with any contact closure remote control. You are able to choose between a Macintosh or PC keyboard/video/mouse combination by using the USB connections.

**Note:** High resolution digital video plus stereo audio is supported.

#### Features:

- Switches easily between any two DVI computers with USB 2.0 and audio
- Maintains highest resolution single link video
- Saves time and increase your productivity
- Use either PC or Mac USB 2.0 keyboard/mouse
- Automatic EQ compensates for low quality cables
- Front panel switching
- Discrete IR remote (included)
- Parallel remote port (RMT-2 not included)
- Supports resolutions up to 1080p, 2K, and 1920 x 1200
- Supports DDWG standards for DVI monitors
- Rackmountable

#### Specifications:

- Video Amplifier Bandwidth: 165 MHz
- Input Video Signal: 1.2 volts p-p
- Input DDC Signal: 5 volts p-p (TTL)
- Single Link Range: 1080p/1920 x 1200
- DVI Connector: DVI-I 29 pin female (digital only)
- Audio Connector: mini-phone stereo 3.5mm
- USB 2.0 Input Connection: type "B"
- USB 2.0 Output Connection: type "A"
- Power Supply: 5V DC
- Power Consumption: 15 watts (max)
- Dimensions: 8.5"W x 1.75"H x 4.625"D
- Rackmountable: 1U half rack

#### Package Includes:

- 2x1 DVIKVM SL Switcher
- RMT-2IR Remote Control Unit
- One 5V Power Supply
- Two 6ft DVI cables
- Two 6ft USB cables
- Two audio cables
- One User Manual



EXT-DVIKVM-241SL



**2x1 DVI KVM SL**  
**Switcher**  
USER MANUAL

## ASKING FOR ASSISTANCE

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### Technical Support:

Telephone (818) 772-9100  
(800) 545-6900

Fax (818) 772-9120

### Technical Support Hours:

8:00 AM to 5:00 PM Monday thru Friday.

### Write To:

Gefen Inc.  
c/o Customer Service  
20600 Nordhoff Street  
Chatsworth, CA 91311

[www.gefen.com](http://www.gefen.com)  
[support@gefen.com](mailto:support@gefen.com)

### Notice

Gefen Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

**2x1 DVI SL Switcher** is a trademark of Gefen Inc.

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# INTRODUCTION

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Congratulations on your purchase of the Gefen 2x1 DVI SL Switcher. Your complete satisfaction is very important to us.

Gefen's line of KVM (Keyboard Video & Mouse), DVI, USB, switches, extenders, converters and hubs is designed to make computer use more comfortable, more productive and less expensive. KVM switches allow access to multiple computers from a single keyboard, while the extenders give the user control over a computer up to 330 feet away from the work area.

Gefen products offer solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, and school and corporate training environments.

## Our Commitment

Gefen will always offer the finest quality product at the best possible price. Included in that price is a lifetime of free support from a team of outstanding engineers.

Now you can switch easily and reliably between any combination of two single link DVI & USB 2.0 equipped computers (PC or Mac) - using only one keyboard, display and mouse. The SL cross platform switcher saves space - there's no need to work on a desk crowded with double displays, keyboards and mouse devices. It saves time - there's no need to move from one monitor to another to access different computers. And, it saves money - there's no need to purchase additional displays, mouse devices, keyboards etc.

# FEATURES

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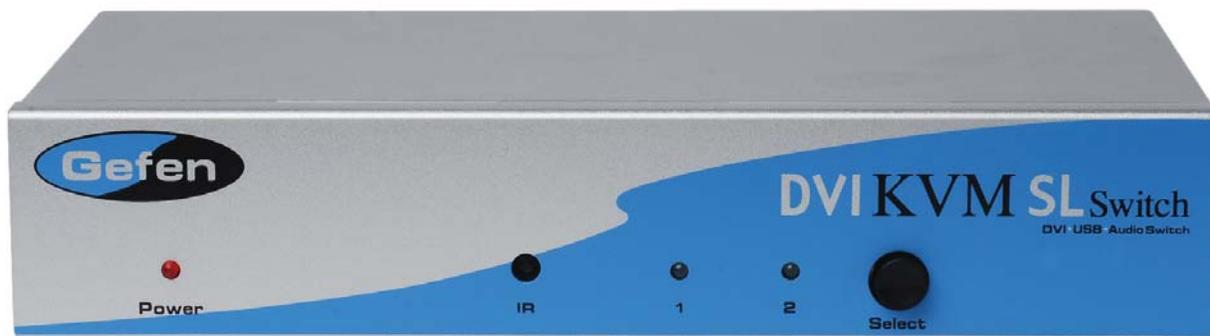
## Features

- Saves money on hardware costs
- Saves space on your desktop
- Save time and increase your productivity
- Maintains highest 1920 x 1200 x 60Hz resolution video
- No loss of quality
- Use either PC or Mac with USB keyboard/mouse
- Switches easily between any two single link DVI computers
- Switch between two single link DVI, USB 2.0 and Audio Sources
- IR Remote control

## Includes:

- (1) 2x1 DVI SL Switcher
- (1) 5v Power Supply
- (1) RMT2-IR Remote Control
- (2) 6ft Single Link DVI cables
- (2) 6ft USB cables
- (2) Audio cables
- (1) Users Manual

# PANEL DESCRIPTIONS

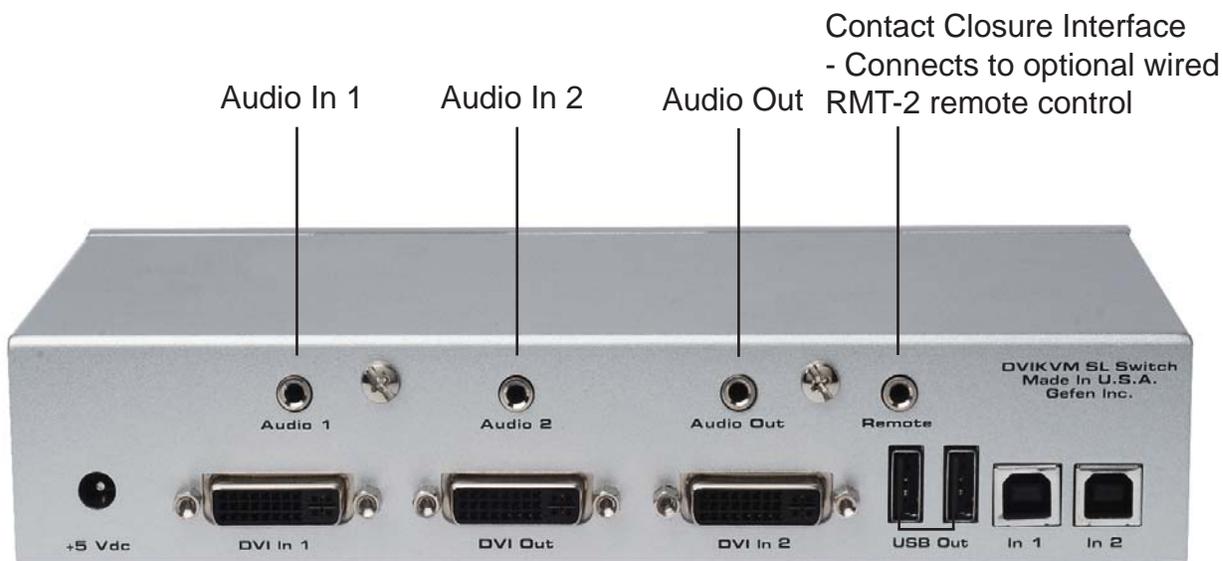


Power Indicator

Infrared Eye

Indicates which input is selected

Selector



5VDC Input

DVI In 1

DVI Out

DVI In 2

USB Output

USB In 1

USB In 2

Contact Closure Interface  
- Connects to optional wired RMT-2 remote control

# CONNECTING AND OPERATING THE 2x1 DVI SL SWITCHER

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## How to Connect the SL Switcher to your devices

- 1- Connect the supplied cables from your first computer into the DVI In 1, USB In 1, and Audio In 1 connection in the back of the DVI Switcher.
- 2- Connect the supplied cables from your second computer into the DVI In 2, USB In 2, and Audio In 2 connection in the back of the DVI Switcher.
- 3- Connect the monitor to the DVI Out connection.
- 4- Connect your USB devices (e.g. keyboard, mouse) into the USB Out.
- 5- Connect your speakers to the Audio Out.
- 6- Plug the 5VDC power supply into the SL Switcher.

## How to Operate the SL Switcher

- 1- Use the front panel push button to switch between sources.
- 2- Use the RMT2-IR remote control port to remotely toggle between sources.
- 3- Use the optional RMT-2 wired remote control to remotely toggle between sources.



### Operation Notes

When turning on or rebooting your computers, the DVI SL Switcher must be selected to the computer that is booting until the computer completes the boot cycle. This step can be eliminated using the Gefen DVI Detective, which stores the displays EDID.

If you loose your picture when switch from source 1 to source 2 or vice-versa you will need a DVI Detective.

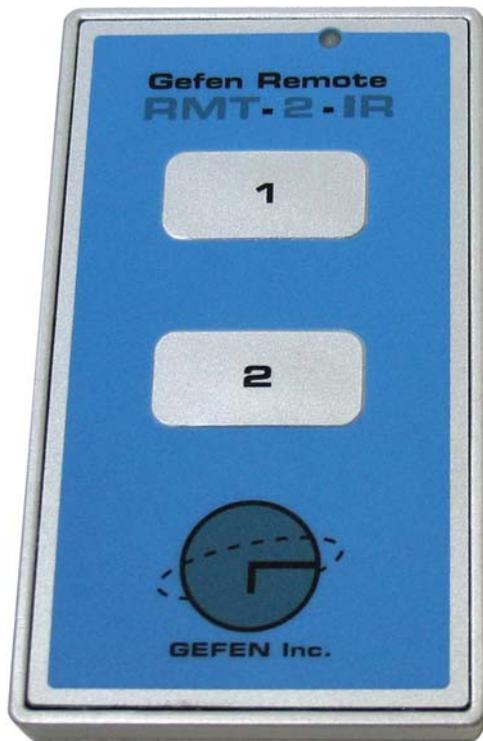
If you are experiencing USB dropouts try using the switcher just as a USB hub by only connecting the USB cables from your computers to the switcher. Connect your devices to the USB out portion of the switcher and connect your display to your computer directly. Start your computer up and try switching. If your USB devices do come up normally then you will need a DVI Detective to negotiate the video/USB signals for faster switching. If they do not come up normally, then you will need to call tech support.

## RMT2-IR INSTALLATION

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1. Remove battery cover from the back of the RMT2-IR remote.
2. Verify that dip switches 1 & 2 are in the down (OFF) position.
3. Insert the battery, hold the battery so that you can see the positive side facing up. The side that is not marked must be facing down.
4. Test the RMT2-IR remote by pressing ONLY one button at a time. The indicator light on the remote will flash once each time you press a button. **WARNING:** Do not press multiple buttons simultaneously and do NOT press buttons rapidly. These actions will cause the remote to reset and steps 1-4 will have to be repeated.

Note: The RMT2-IR ships with two batteries. One battery is required for operation, the second battery is complimentary.



Optional RMT-2 wired remote control

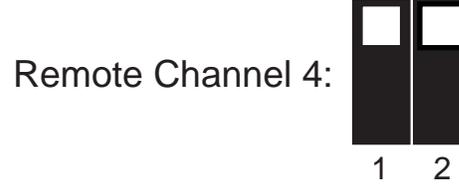
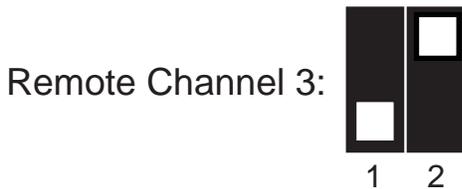
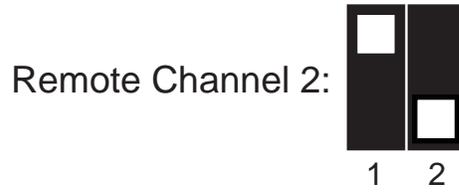
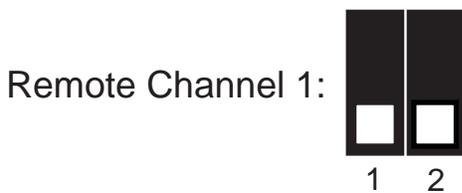


## IR CODE CONFLICTS

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In the event of IR conflicts, please do the following:

1. Remove the battery cover from the back of the RMT 2-IR remote.
2. Locate the Dip Switches above the batteries
3. Switch the Dip Switches on the RMT 2-IR to any of the combinations pictured below.
4. Dip Switches 1 and 2 in the RMT 2-IR correspond with Dip Switches 1 and 2 on the outside of the 2x1 DVI SL Switcher respectively. Flip the switches on the outside of the 2x1 DVI SL Switcher to match the same Remote Channel as the RMT 2-IR. The 2x1 DVI SL Switcher is now set to a new IR Code.



## IR EXTENDER INSTALLATION

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### How to Connect the IR Extender

- 1 Locate the dip switches underneath the switcher, they will be hidden underneath a blank silver sticker, and flip dip switch number 4 to the "ON" position.
- 2 Plug the IR extender into the Remote port on the front of the Switcher Unit

You should now be able to switch using the IR Extender.

## SPECIFICATIONS

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Video Amplifier Bandwidth .....	165 MHz
Input Video Signal .....	1.2 Volts p-p
Input DDC Signal .....	5 Volts p-p (TTL)
Single Link Range .....	1920 x 1200
DVI Input/Output Connector Type .....	DVI-I 29 pin female (digital only)
USB 2.0 Input Connection .....	Type "B"
USB 2.0 Output Connection .....	Type "A"
Power Consumption .....	15 Watts (max.)
Power Supply .....	5V DC
Dimensions .....	4.625"D x 8.5"W x 1.75"H
Rackmountable .....	1 Rack Space
Shipping Weight .....	5 Lbs