

Gefen®

2x1 DVI Dual Link KVM Switcher

EXT-DVIKVM-241DL
USER MANUAL



www.gefen.com

1080P
PROGRESSIVE

HDTV

ASKING FOR ASSISTANCE

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Rev X1

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INTRODUCTION

Congratulations on your purchase of the Gefen 2x1 DVI DL 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 dual link DVI & USB 2.0 equipped computers (PC or Mac) - using only one keyboard, display and mouse. The 2X1 DL 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.

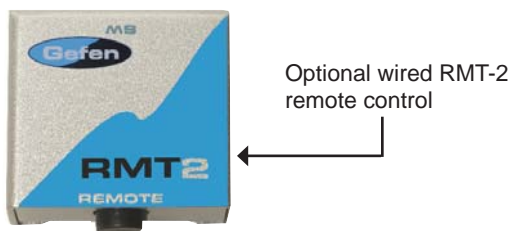
FEATURES

Features

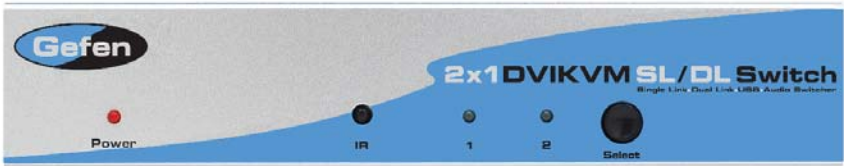
- Saves time, money, and desktop space -- no need for multiple monitors, keyboards and setup labor
- Maintains highest possible Dual-Link DVI resolution video at 3840 x 2400 @ 60Hz
- No loss of signal quality when sending DVI / Audio / USB through this unit
- Use either PC or Mac with USB keyboard/mouse
- Switches easily between any two dual link DVI computers
- Auto EQ feature compensates for poor quality cables when necessary
- Switches between two dual link DVI, USB 2.0 and Audio Sources
- Discrete IR Remote control

Includes:

- (1) 2x1 DVI DL Switcher
- (1) 5V DC Power Supply
- (1) RMT2-IR Remote Control
- (2) 6ft Dual Link DVI cables
- (2) 6ft USB cables
- (2) Audio cables
- (1) Users Manual



PANEL DESCRIPTIONS



Power Indicator

Infrared
Eye

Indicates which
input is selected

Source
Selector



5V DC Input

DVI In 1

DVI Out

DVI In 2

USB
Output
(to Mouse /
Keyboard)

USB In 1

USB In 2

(From Computers)

CONNECTING AND OPERATING THE 2x1 DVI DL SWITCHER

How to Connect the DL 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 DL Switcher.

How to Operate the DL 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 DL 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

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.

**RMT2-IR
Infrared Remote**



**Optional RMT-2 wired remote
(connection shown on page 3)**



**RMT-EXTIR
Infrared Signal
Extender**

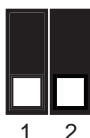


IR CODE CONFLICTS

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 just 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 bottom (underneath a piece of metallic tape) of the 2X1 DVI DL Switcher respectively. Flip the switches on the outside of the 2x1 DVI DL Switcher to match the same Remote Channel as the RMT 2-IR. The 2x1 DVI DL Switcher is now set to a new IR Code.

Remote Channel 1:



Remote Channel 2:



Remote Channel 3:



Remote Channel 4:



IR EXTENDER INSTALLATION

How to Connect the IR Extender (Gefen part #EXT-RMT-EXTIR)

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 (where the RMT-2 optional wired remote connects on page 3).

You should now be able to switch using the IR Extender (shown on the bottom of page 6 immediately opposite this sentence).

SPECIFICATIONS

Video Amplifier Bandwidth	2x 165 MHz
Input Video Signal	1.2 Volts p-p
Input DDC Signal	5 Volts p-p (TTL)
Dual Link Maximum Resolution / Max. Range	3840 x 2400
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"
Audio Connector:	mini-stereo 3.5mm phono jack
Power Consumption	10 Watts (max.)
Power Supply	5V DC
Dimensions8.5"W x 1.7" H x 4.6" D
Rackmountable	1U Half Rack Space
Shipping Weight	5 Lbs