



Hall Research Technologies, Inc.

Models SW-DVI-2A and SW-DVI-4A

2 & 4 Port DVI Video Switcher




December 8, 2005
SW-DVI-2A/4A User's Manual

UMA1066 Rev. n/c

**CUSTOMER
SUPPORT
INFORMATION**

Order **toll-free** in the U.S. **800-959-6439**
FREE technical support, Call **714-641-6607** or fax **714-641-6698**
Mail order: **Hall Research Technologies**, 1163 Warner Ave., Tustin, CA 92780
Web site: www.hallresearch.com • E-mail: info@hallresearch.com

Trademarks Used In this Manual

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Federal Communications Commission Statement

This equipment generates, uses and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device, pursuant to Part 15 of the FCC rules. Harmful interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

European Union Declaration of Conformity

This product has been tested and shown to comply with the requirements of the European EMC directive 89/336/EEC



1.0 General

Thank you for purchasing Hall Research Technologies' DVI Video Switcher. The Switchers allow routing of multiple DVI equipped devices (such as PC's) to a single DVI display (such as plasma or LCD screen). The switchers support single-link, DVI-I (integrated Analog and/or Digital) video signals at resolutions of up to 1280x1024. The DVI Switchers feature front panel switches and indicators for easy operation, plus they have intelligence to switch to active video input when an input is unplugged or there is no video present.

2.0 Features

- Clear & sharp image at resolution up to 1280x1024 (including 1080i).
- Supports both digital and analog DVI signals (DVI-I), allowing you to connect or switch between a DVI equipped PC and a VGA equipped one (*In this case HD15 to DVI cable will be necessary, and your DVI monitor should be able to support DVI-I signal*)
- Hot pluggable
- Auto skips over the powered off input (no video) and/or unplugged cable
- Supports the DDC2 standard for all input ports
- 1U rack design for 4-channel version (Model SW-DVI-4A)

3.0 Installation

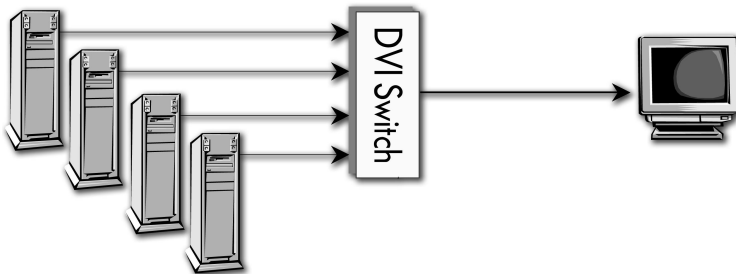
1. Your package includes the Switcher box, a power supply and this Manual (the 4 port switcher also includes rack-mount kit). You need to purchase input cables for connection to your video sources. Hall Research sells high quality DVI cables and adapters at various lengths.



2. Make sure the PCs, the switch, and the monitor are all turned off.
3. Plug the monitor's cable into the DVI OUT port of the Switch
4. Plug male-to-male extension cables from PCs DVI ports to the Switch
5. Plug the supplied power adapter to the unit
6. Turn on the monitor first. All red LEDs will flash back and forth (telling you that the unit is searching for video on the inputs).
7. Turn on the PCs. The green LEDs turn on (telling you that the unit sees a connection and valid signal on the inputs)

4.0 Operation

The LED's indicate which input is selected and which inputs are present. Simply press the switch over the LEDs on any of the inputs that have their green LEDs lit.



5.0 Troubleshooting

Cable Length Limitations

The switcher cannot be used as an extender. Therefore it is best to plug the output to the display device and use input cables that are 5 meters maximum

HDCP (Content Protection) Problems in Home-theatre A/V applications

The switcher is designed to work with PC's with DVI outputs. It may or may not work fine with A/V equipment that has integrated DVI connectors. The Switch

passes the HDCP data but Hall Research does not guarantee compatibility with all HDCP equipment on the market. Please contact HRT for information on HDMI (new standard for home-theatre digital A/V connections) capable equipment.

If you are convinced that the unit is defective ...

Do not open or try to repair the unit yourself. There is no customer repairable items in the unit and you will void your warranty by doing so. Contact HRT instead.

5.1 Contacting Hall Research and Shipping/Packaging

Contact HRT Support at 714-641-6607 or via email or web. Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description. If you need to ship your converter for repair, make sure to get a Return Material Authorization (RMA) number first.

6.0 Specifications

Standards	DVI-I Single Link, DDC 2 (Plug and Play EDID)
Resolutions	PC resolutions up to 1280x1024 and HDTV to 1080i
Temperature	Operating: 32 to 122°F (0 to 50°C); Storage: -40 to +185°F (-40 to +85°C)
Enclosure	Steel
MTBF	90,000 hours (calculated estimate)
Power	From utility-power (mains) outlet, through included external power supply. Output Voltage: 9v DC Center-Positive 300ma maximum
Size (wxdxh)	<u>2-Port:</u> 6" x 3" x 1.65" <u>4-Port:</u> 10.6" x 4.1" x 1.65"
Weight	<u>2-Port:</u> 1.1 pounds <u>4-Port:</u> 2.2 pounds

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