



Hall Research Technologies, Inc.

## Model SW-HDMI-3A

### 3 input x 1 output HDMI Video Switch

Selects and boosts Video Input Channel. Drives cables to 50 feet  
Includes IR Remote Control




SS-HDMI-3A User's Manual

UMA1100, Rev. n/c May 2006

**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](http://www.hallresearch.com) • E-mail: [info@hallresearch.com](mailto:info@hallresearch.com)

## **Trademarks Used In this Manual**

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### **1.0 General**

Thank you for purchasing Hall Research Technologies' Model SW-HDMI-3A 3 input x 1 output HDMI Video Switch. This device is used to select (and boost) one of 3 HDMI Video-plus-Audio inputs.

The selection can be made via the front panel or using an included IR remote control. Since HDMI (and DVI) digital signals have cable distance limitations, the SW-HDMI-3A provides a front panel button to boost the output signal to drive long HDMI cables to about 50 feet. Furthermore, the unit has built in automatic equalizers on the inputs so that it can handle long input video cables (to 65 feet).

### **2.0 Features**

- Perfect solution for high-end home-theatre setups
- Use only one connection to your HDMI compatible HDTV
- Equalizes the inputs for losses in the cable to 65 feet
- Can boost the output for driving cables to 50 feet.
- Front panel LED indicators for status monitoring
- Supports PC resolutions to UXGA (1600x1200) and HD to 1080p
- Includes a simple to use Remote Control
- Plug and play installation – takes minutes to setup
- Bandwidth of 1.65 Gbps (Giga bits / second) for sharp digital image
- HDMI1.1, HDCP 1.1, and DVI1.0 Compliant

### **3.0 Package Contents**

- One SW-HDMI-3A HDMI Switcher unit
- One Universal Switching Power Supply
- This User's Manual

Note: Cables are not supplied with this unit. Please order those separately

## 4.0 Controls, Functions, and Indicators



Front Panel



Rear Panel

### Input Video Channel Indicator LEDs and Select Button

Press the Select button to sequentially selects one of the 3 inputs

### Signal Boost Button and LED indicator

If you have a cable longer than about 15 feet connected to the output press this button once to boost the output signal strength. In general leave this in off mode unless you are observing digital artifacts that indicate signal loss such as pixellation, freezing, or loss of image.

### Input Power ndicator

The unit does not have an on-off button. This light comes on as soon as you plug in the power adapter.

### DC Input Power Jack

Plug the included power supply to this jack. The red LED should come on indicating power is on. NEVER SUBSTITUTE ANY OTHER POWER SUPPLY AS THIS MAY (and probably will) DESTROY THE UNIT.

### HDMI Input and Output Connector

Using a high quality HDMI cable connect the output (left most) connector to your display. Connect your inputs starting with HDI #1 (right most) - cable not supplied - Contact Hall Research Technologies if you cables.

## 5.0 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

<b>Bandwidth</b>	1.65 Gbps (Giga bits / second)
<b>Resolutions</b>	Output resolution is the same as input resolution. <u><b>Supported PC Resolutions</b></u> VGA - SVGA – XGA – SXGA – UXGA (1600x1200) <u><b>Supported Component (YPbPr) Resolutions</b></u> 480i - 576i - 480p – 576p - 720p - 1080i - 1080p
<b>Temperature</b>	Operating: 32 to 122°F (0 to 50°C); Storage: -40 to +185°F (-40 to +85°C)
<b>MTBF</b>	100,000 hours (calculated estimate)
<b>Power</b>	From utility-power (mains) outlet, through included external power supply. Voltage: 5 V DC Center-Positive 2600 ma
<b>Size</b>	1.0" High x 7.9" Wide x 4.1" Deep
<b>Weight</b>	1.3 lbs (20 Ounces)

## 7.0 Connection Block Diagram

