

HDMI Video Switcher

4 to 1 HDMI Switcher with Remote/RS-232 control

8 to 1 HDMI Switcher with Remote/RS-232 control

VS410HDMIR
VS810HDMIR

Instruction Manual



*VS810HDMIR displayed, actual product may vary from photo

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Introduction

Thank you for purchasing a StarTech.com HDMI Video Switcher. This device allows you to connect multiple HDMI signal sources to a single HDMI input on your HDTV, eliminating the need to manually swap out connections to your display. With the ability to control this device using a serial connection as well as the added convenience of the included remote control, you can switch between up to 4 (VS410HDMIR) or 8 (VS810HDMIR) HDMI signal sources, at the push of a button.

Features

- Easy-to-use remote control and RS-232 Serial control for switching between devices
- DCE/DTE mode selectable
- HDMI 1.1, HDCP 1.1 compliant
- Signal Enhance feature improves signal quality for added distance transmissions

Before you Begin

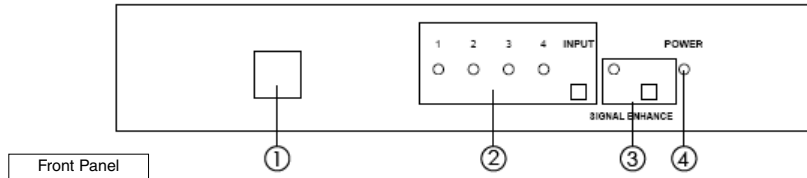
Contents

- HDMI Switcher (1)
- Remote Control (1)
- Instruction Manual (1)
- Universal power adapter (1)

System Requirements

- HDMI signal sources (1-4: VS410HDMIR), (1-8: VS810HDMIR)
- A display with an available HDMI input

Installation - VS410HDMIR

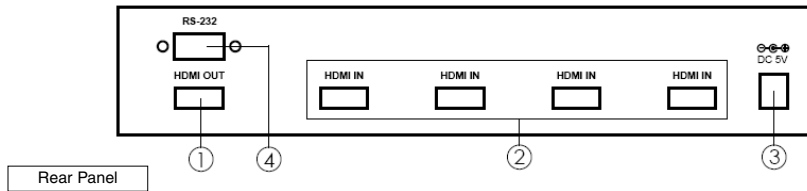


1 - Remote Control Sensor

2 - Input Select/Indicators - Press the **Input** button repeatedly to switch to the desired input source. The LED will illuminate to indicate which input source is being selected.

3 - Signal Enhancement/Indicator - Pressing the **Signal Enhance** button will turn on this feature, to improve signal quality over long distance transmissions. Pressing this button a second time will turn this feature off. The **Signal Enhance** LED will illuminate, when the signal is enhanced.

4 - Power LED Indicator - This LED will illuminate to indicate that power is connected to the video switch.



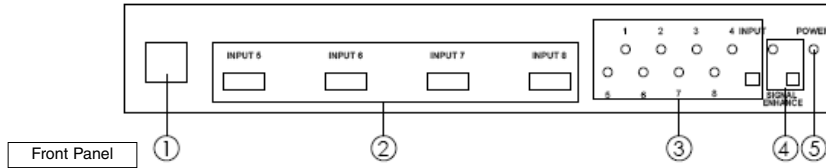
1 - HDMI Output - Connect the HDMI output to the HDMI input of your display, using standard HDMI cable. (Please see **Accessories**)

2 - HDMI Inputs - Connect your HDMI sources to each of the HDMI inputs of the uni., using standard HDMI cable.

3 - Power - Plug the included 5V DC power supply into this port. Plug the opposite end of the power cable into an available power receptacle.

4 - RS232 - Connect your serial control consoles to this 9-pin D-sub female connectors, as an added remote control option. Please refer to the table of serial commands listed on pages 3 & 4 for further information

Installation - VS810HDMIR



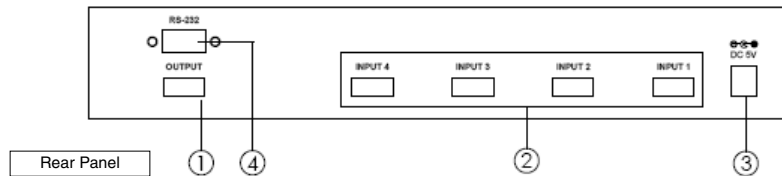
1 - Remote Control Sensor

2 - HDMI Inputs - Connect your HDMI sources to each of the HDMI inputs, using standard HDMI cable.

3 - Input select indicators - Press the **Input** button repeatedly to switch to the desired input source. The LED will illuminate to indicate which input source is being selected.

4 - Signal Enhancement/Indicator - Pressing the **Signal Enhance** button will turn on this feature, to improve signal quality over long distance transmissions. Pressing this button a second time will turn this feature off. The **Signal Enhance** LED will illuminate, when the signal is enhanced.

5 - Power LED Indicator - This LED will illuminate to indicate that power is connected to the video switch.



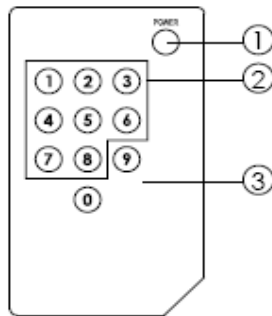
1 - HDMI Output - Connect the HDMI output to the HDMI input of your display, using standard HDMI cable. (Please see **Accessories**)

2 - HDMI Inputs - Connect your HDMI sources to each of the HDMI inputs of the uni., using standard HDMI cable.

3 - Power - Plug the included 5V DC power supply into this port. Plug the opposite end of the power cable into an available power receptacle.

4 - RS232 - Connect your serial control consoles to this 9-pin D-sub female connectors, as an added remote control option. Please refer to the table of serial commands listed on pages 3 & 4 for further information

Using the Remote Control



- 1 - **Power** - Press the **Power** button to turn the video switch on and off.
- 2 - **Direct Input Selector** - Press the number that corresponds to the input you wish to use.

VS410HDMIR / VS410HDMIR RS-232 Remote Control Protocol

The connection between VS410HDMIR/VS810HDMIR and Remote Controller with RS-232 modem cable:

VS410HDMIR / VS810HDMIR		Remote Controller	
Pin	Definition	Pin	Definition
1	NC	1	NC
2	TxD	2	RxD
3	RxD	3	TxD
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

RS-232 Transmission format:

Baud rate: 9600 bps
Data bits: 8 bits
Parity: None
Stop bit: 1 bit

VS410HDMIR / VS410HDMIR RS-232 Remote Control Commands

Command Code	Comment
"Port" + "Space" + "1" + "CR"	Port 1 ON
"Port" + "Space" + "2" + "CR"	Port 2 ON
"Port" + "Space" + "3" + "CR"	Port 3 ON
"Port" + "Space" + "4" + "CR"	Port 4 ON
"Port" + "Space" + "?" + "CR"	Query port status
"Signal" + "Space" + "1" + "CR"	Enable Signal Enhance
"Signal" + "Space" + "0" + "CR"	Disable Signal Enhance
"Signal" + "Space" + "?" + "CR"	Query Signal Status
"Power" + "Space" + "1" + "CR"	Power ON
"Power" + "Space" + "0" + "CR"	Power OFF
"Power" + "Space" + "?" + "CR"	Query Power Status

- Commands are combined with words and digits
- Combination commands must be separated by the ASCII character SPACE
- The command will be executed after the ASCII character "CR" is entered
- After the CR character is entered, the unit will reply "OK" if the command is legal
- If the command is illegal, the unit will reply with "NG"
- DB9 Straight-through cable is required

Specifications

Product dimensions	280x104x44mm (L x W x H)
Maximum bandwidth	Frequency Bandwidth 1.65Gbps
Input resolutions supported	PC: VGA, SVGA, XGA, SXGA, and UXGA HDTV: 480i / p, 576i / p, 720p, 1080i, and 1080p
Power adapter	5V DC 2.6 Amp Universal Power Supply (included)
Connections	VS410HDMIR: HDMI female input (4) HDMI female output (1) RS-232 DB9 female (1) VS810HDMIR: HDMI female input (8) HDMI female output (1) RS-232 DB9 female (1)

Technical Support

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Warranty Information

This product is backed by a one-year warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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