

DVI Video Switcher

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

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

VS410DVIR
VS810DVIR

Instruction Manual



Actual products may vary from photo

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Introduction

Thank you for purchasing a StarTech.com DVI Video Switcher. This device allows you to connect multiple DVI signal sources to a single DVI 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 (VS410DVIR) or 8 (VS810DVIR) DVI signal sources, at the push of a button.

Features

- Easy-to-use remote control and RS-232 Serial control for switching between devices
- Supports analog and digital signals
- HDMI 1.1, HDCP 1.1, and DVI 1.0 compliant
- Signal Enhance feature improves signal quality for added distance transmissions

Before you Begin

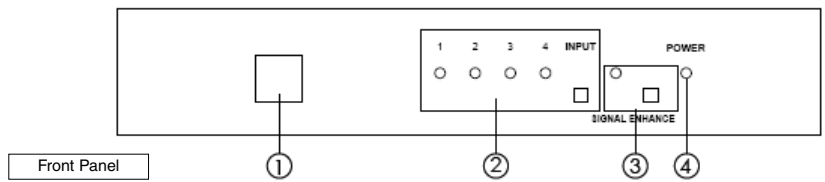
Contents

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

System Requirements

- DVI signal sources (1-4: VS410DIR), (1-8: VS810DIR)
- A display with an available DVI input

Installation - VS410DVIR



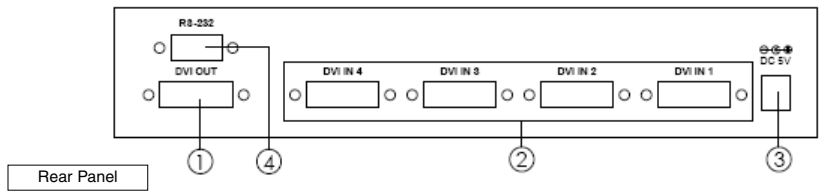
1 - Remote Control Sensor

2 - DVI Inputs - Connect your DVI signal sources to the DVI inputs provided, using standard DVI cables

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

4 - Signal Enhancement/Indicator - Press the **Signal Enhance** button to turn on this feature, in order to improve signal quality over long distances. Press the button a second time to turn this feature off. The 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.



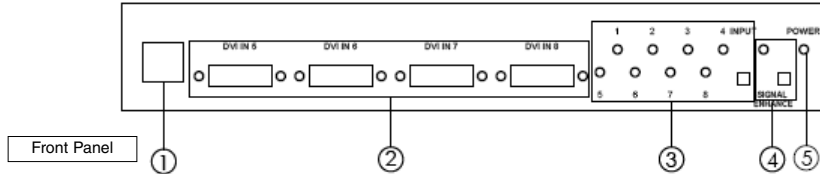
1 - DVI Output - Connect the DVI output to the DVI input of your display, using standard DVI cable. (Please see **Accessories**)

2 - DVI Inputs - Connect your DVI sources to each of the DVI inputs of the unit, using standard DVI 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 **4 & 5** for further information

Installation - VS810DVIR



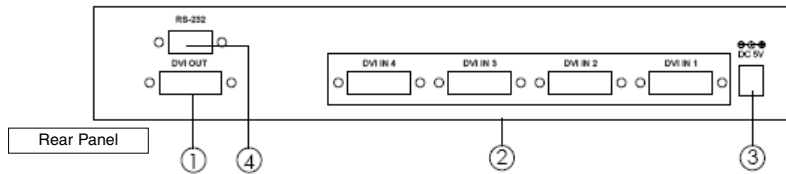
1 - Remote Control Sensor

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



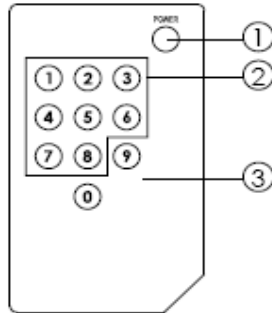
1 - DVI Output - Connect the DVI output to the DVI input of your display, using standard DVI cable. (Please see **Accessories**)

2 - DVI Inputs - Connect your DVI sources to each of the DVI inputs of the unit, using standard DVI 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 4 & 5 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.

VS410DVIR / VS410DVIR RS-232 Remote Control Protocol

The connection between VS410DVIR/VS810DVIR and Remote Controller with RS-232 modem cable:

VS410DVIR / VS810DVIR		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

VS410DVIR / VS410DVIR 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	VS410DVIR: DVI female input (4) DVI female output (1) RS-232 DB9 female (1) VS810DVIR: DVI female input (8) DVI 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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