



# HDMI Switch

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USER MANUAL

VS481

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ Reorient or relocate the receiving antenna;
- ◆ Increase the separation between the equipment and receiver;
- ◆ Connect the equipment into an outlet on a circuit different from that which the receiver is connected;
- ◆ Consult the dealer or experience radio/television technician for help

This product is RoHS compliant.



# VS481 User Manual

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Read this guide thoroughly and follow the installation and operation procedures carefully in order to prevent any damage to the units and/or any devices that connect to them.

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## Package Contents

The VS481 HDMI Switch package contains the following items:

- ◆ 1 User Manual
- ◆ 1 Quick Start Guide
- ◆ 1 VS481 HDMI Switch
- ◆ 1 HDMI Cable (1.8 m)
- ◆ 1 IR Remote Control Unit
- ◆ 1 Power Adapter

If anything is damaged or missing, contact your dealer.

## Overview

The VS481 4 Port HDMI Switch allows you to quickly and easily share your HDMI display device with 4 HDMI input sources (one is conveniently located on the front).

The VS481 allows convenient switching between digital devices such as DVD players, satellite receivers, video cameras, and computers (Mac and PC). The VS481 allows you to select the desired input source via a remote control unit and pushbuttons located on the switch.

## Features

- ◆ Low cost solution for home theater integration.
- ◆ Easy switching between four digital video signals (e.g., DVD and satellite receiver) by remote control or front panel switches.
- ◆ LED indication of A/V source channels.
- ◆ Supports high-resolution video – HDTV resolutions of 480p, 720p, 1080i, 1080p & Supports VGA, SVGA, SXGA (1280x1024) and UXGA (1600x1200).
- ◆ Plug-and-play. No software installation required. Installs in minutes.
- ◆ HDCP Compliant
- ◆ HDMI 1.2 Compliant
- ◆ Backward compatible with all DVI devices (requires a DVI/HDMI adapter).
- ◆ Remote control or front panel pushbutton source selection.

# System Requirements

## Source Device(s)

- ◆ HDMI Type A output connector(s)

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**Note:** A DVI/HDMI adapter is required when connecting a DVI source device.

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## Load Device

- ◆ A display device or receiver with an HDMI Type A input connector

## Cables

- ◆ 4 HDMI cables

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**Note:** Not all cables are included in this package. We strongly recommend that you purchase high-quality cables of appropriate length since this will affect the quality of the audio and video display. Contact your dealer to purchase the correct cable sets.

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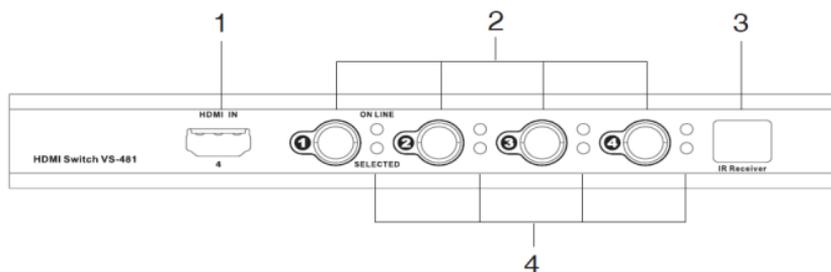
## Load Device

The following operating systems are supported:

- ◆ Microsoft Windows 98SE, Windows ME, Windows 2000, Windows XP, and later
- ◆ Red Hat Linux 7.1, 7.2, 7.3, 8.0, and later
- ◆ Mandrake Linux 9.0 and later
- ◆ SUSE Linux 8.2 and later
- ◆ Mac OS 8.6, 9.0, 9.1, X, 10.1, 10.2, 10.3, 10.4 and later

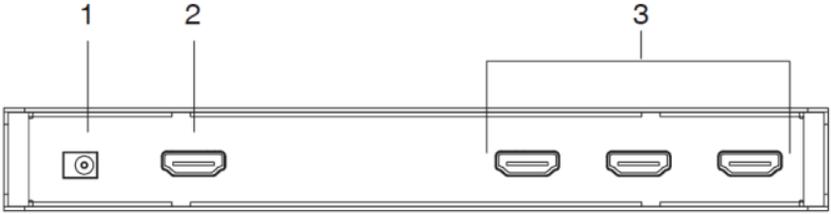
# Hardware Overview

## VS481 Front View



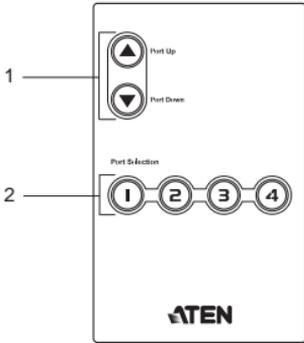
No.	Component	Function
1	HDMI In (Type A)	Plug the cable from an HDMI source device into this port (number 4).
2	Port Selection Pushbuttons	Pressing a port selection pushbutton routes the source from the corresponding input port to the output port for display.
3	IR Receiver	The IR receiver receives signals from the IR remote control.
4	Port LEDs	There are two port LEDs next to each port selection pushbutton. The ON LINE LED (top) and the SELECTED LED (bottom). <ul style="list-style-type: none"><li>◆ The ON LINE LED (orange) lights to indicate that the device attached to the corresponding port is powered on.</li><li>◆ The SELECTED LED (green) lights to indicated that the port is selected.</li></ul>

# VS481 Rear View



No.	Component	Function
1	Power Jack	The power adapter cable plugs in here.
2	HDMI Out (Type A)	The cable from the HDMI display device plugs in here.
3	HDMI In (Type A)	The cables from the HDMI source devices can plug into any of the three available ports.

# IR Remote Control



No.	Component	Function
1	Port Up / Port Down Buttons	Press the Port Up button to cycle forward through ports (1 to 2; 2 to 3; 3 to 4; 4 to 1). Press the Port Down button to cycle backward through the ports (4 to 3; 3 to 2; 2 to 1; 1 to 4).
2	Port Selection Buttons	Press a button to bring the focus directly to its associated port.

# Installation



1. Ensure that all equipment to be connected is powered off.
2. Make sure that all devices you will be connecting up are properly grounded.
3. Unplug the power cords of all the computers that have the Keyboard Power On function.

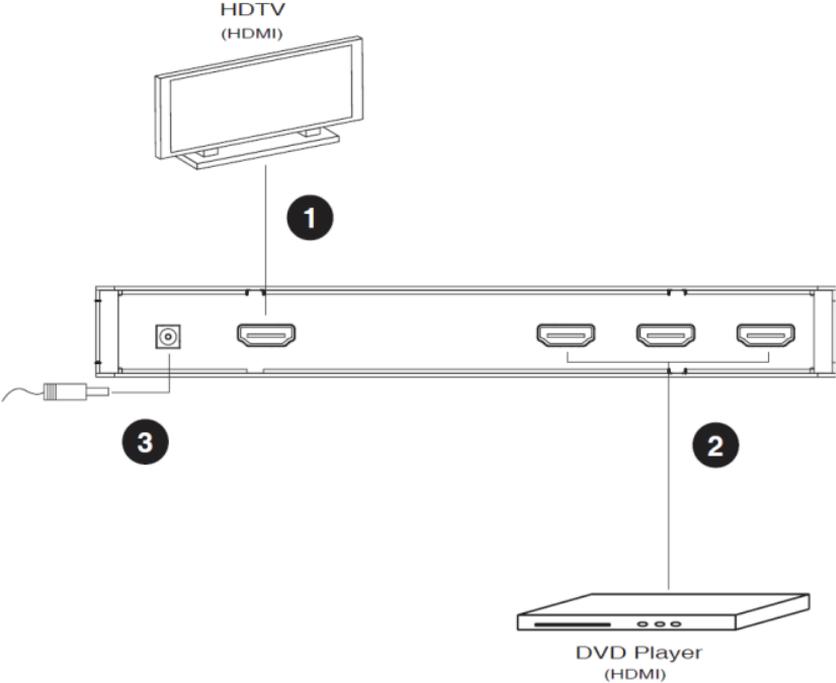
Installation of this HDMI switch is simply a matter of plugging in the appropriate cables.

To install the switch, refer to the installation diagram on the next page as you perform the following three steps:

1. Use an HDMI cable to connect the HDMI input port on the video display device to the HDMI output port on the rear of the VS481.
2. Use HDMI cables to connect the HDMI output ports on the source device(s) to the HDMI input ports on the switch. The fourth HDMI port is located on the front of the switch.
3. Plug the provided power adapter into an appropriate AC power source; plug the power adapter cable into the Power Jack on the HDMI Switch.

This completes the installation. You may now turn on the display and source devices.

# Installation Diagram



## Source Device Selection

The VS481 HDMI Switch offers easy and flexible source device selection with either the front panel pushbuttons, or with the remote control.

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**Note:** Whenever the VS481 is powered on, it automatically selects Port 1. You may choose one of the two methods listed below to select a different port.

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### Manual Selection

To select a source device, press the pushbutton that corresponds to the port it is connected to.

The fourth HDMI input port is located on the front of the switch.

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**Note:** The SELECTED LED (green) light indicates which port is currently selected.

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### Remote Control Selection

To select a source device with the remote control, press the number button that corresponds to the port it is connected to.

Alternatively, you may also cycle through the available source devices by pushing the Port Up and Port Down buttons on the remote control unit.

- ◆ Use the Port Up button to select the next available port in ascending order (from left to right on the front view panel).
- ◆ Use the Port Down button to select the next available port in descending order (from right to left on the front view panel).

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**Note:**

1. The maximum range of the remote control unit is 10 meters (30 ft)
2. Aim the remote control unit at the IR receiver located on the front panel of the HDMI Switch. For optimum performance, make sure there is a clear line-of-sight between the remote control unit and the IR receiver.

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## Powering Off and Restarting

If you power off the VS481, follows these steps before powering it on again:

1. Power off the attached devices.
2. Unplug the power adapter cable from the HDMI switch.
3. Wait 10 seconds, and then plug the power adapter cable back in.
4. After the HDMI switch is powered on, power on the attached devices.

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**Note:** Whenever the VS481 HDMI switch is powered on, it automatically selects port 1.

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# Specifications

Function		VS481	
Display Connections		1	
Connectors	Display Port	HDMI Out	1 x HDMI Type A Female (Black)
	Device Port	HDMI In	4 x HDMI Type A Female (Black)
	Power		1
LEDs	On Line		4 (Orange)
	Selected		4 (Green)
Buttons	Port Selection		4 x Pushbuttons, Remote Control
IR Sensor		1	
Power Consumption		DC 5.3V, 2W	
Video		1600 x 1200 @ 60Hz; 480p, 720p, 1080i, 1080p	
Environment	Operating Temp.		0 – 50°C
	Storage Temp.		-20 – 60°C
	Humidity		0–80% RH, Non-condensing
Physical Properties	Housing		Metal
	Weight		0.45 kg
	Dimensions (L x W x H)		20.00 x 8.00 x 2.50 cm

## Getting Help

If you need to contact ATEN technical support with a problem, visit our website at [www.aten.com](http://www.aten.com).

### Limited Warranty

ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the LCD panel of ATEN LCD KVM switches. Select products are warranted for an additional year (see *A+ Warranty* for further details). Cables and accessories are not covered by the Standard Warranty.

#### **What is covered by the Limited Hardware Warranty**

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is defective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website:

<http://www.aten.com/global/en/legal/policies/warranty-policy/>