ATEN ®

Simply Better Connections™

HDMI Switch

USER MANUAL

VS481

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Federal Communication Commission Interference Statement: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Operation of this equipment in a residential environment could cause radio interference.

Achtung: Der Gebrauch dieses Geräts in Wohnumgebung kann Funkstörungen verursachen.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

KCC Statement:

유선 제품용 / A 급 기기 (업무용 방송 통신 기기)
이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며 , 가정 외의 지역에서 사용하는 것을 목적으로 합니다 .

RoHS: This product is RoHS compliant.

專業級影音類產品

設備名稱 Equipment Name	3 埠 HDMI 影音切換器			型號（型式） Type designa- tion (Type)	VS481	
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電纜線 Cable	－	○	○	○	○	○
印刷電路部件 PCBA	－	○	○	○	○	○
塑膠／其他部件 Plastic / Other parts	○	○	○	○	○	○
金屬部件 Metal parts	－	○	○	○	○	○

備考 1.〝超出 0.1 wt％〞及〝超出 0.01 wt％〞係指限用物質之百分比含量超出百分比含量基準值。
Note 1："Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.
備考 2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2：" ○ " indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.
備考 3.〝－〞係指該項限用物質為排除項目。
Note 3："–" indicates that the restricted substance corresponds to the exemption.

製造商：宏正自動科技股份有限公司
地址：新北市汐止區大同路二段 125 號三樓

警告使用者：此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

最大操作環境溫度： 50℃

最大額定電壓： DC 5V

D33866
RoHS

VS481 User Manual

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.

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 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)

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

Load Device

⬩ A display device or receiver with an HDMI Type A input connector

Cables

⬩ 4 HDMI cables

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.
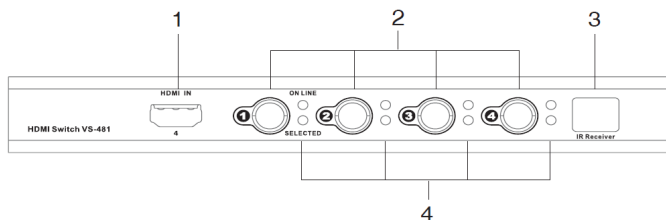
Load Device

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
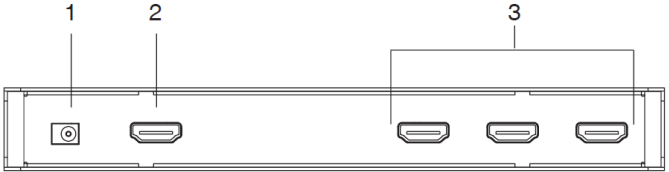⬩ Mac OS 8.6, 9.0, 9.1, X, 10.1, 10.2, 10.3, 10.4 and later
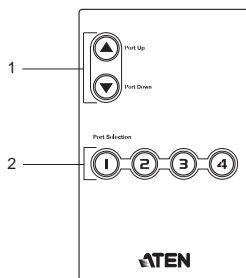
Hardware Overview

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). ◆ The ON LINE LED (orange) lights to indicate that the device attached to the corresponding port is powered on. ◆ The SELECTED LED (green) lights to indicated that the port is selected.

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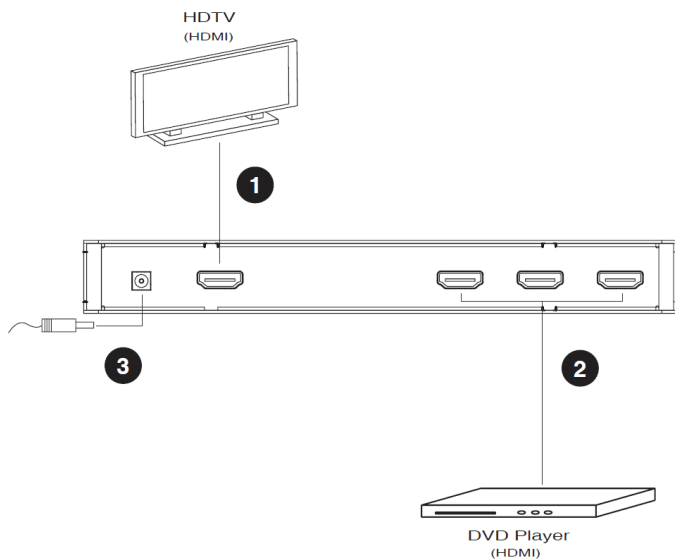
Installation of this HDMI switch is simply a matter of plugging in the appropriate cables.

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

HDTV
(HDMI)

DVD Player
(HDMI)

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.

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.

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.

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

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).

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.

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.

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

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 – 50ºC
	Storage Temp.		-20 – 60ºC
	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*.

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 detective, 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/