



StarTech.com VS221HD4K 2-Port HDMI 4K Automatic Switch Quick Start Guide

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StarTech.com VS221HD4K 2-Port HDMI 4K Automatic Switch



Product Overview

Front View



1. Input selection button
2. Mode selection switch
3. IR sensor

Rear View



1. Power adapter port
2. RJ-11 serial jack
3. EDID copy button
4. HDMI output port
5. HDMI input ports (in1 & in2)
6. EDID setting switch

Packaging contents

- 1 x 2-port HDMI switch
- 1 x remote control
- 1 x universal power adapter (NA/EU/UK/AU)
- 1 x RJ11 cable
- 1 x RJ11 to DB-9 serial adapter
- 1 x mounting kit
- 1 x quick start guide

System requirements

- 2 x HDMI-enabled Video Source Devices w/ HDMI cable (i.e. Blu-ray player, computer, etc.)
- 1 x HDMI-enabled Display Device w/ cable (i.e. Television, projector, etc.)

Operating system requirements are subject to change. For the latest requirements, please visit www.startech.com/VS221HD4KA.

Installation

Note: Ensure your HDMI-enabled video source devices and the HDMI-enabled display are powered off before you begin the installation.

1. Connect an HDMI cable (not included) from each of the HDMI output ports on your HDMI source devices to the HDMI input port on the HDMI switch.

Notes: Each port is numbered, please take note of which number is assigned to each HDMI source device.

2. Connect an HDMI cable (not included) from the output port on the HDMI Switch to your HDMI display device.
3. Power on your HDMI display, followed by each of your HDMI source devices.
4. Connect the included power adapter from an available power source to the power adapter port on the HDMI switch.
5. (Optional for serial control) Connect the included RJ11 cable to the RJ11 to DB-9 serial adapter. Then connect the D9 connector to a 9-pin serial port on your computer system.
6. Your HDMI switch is now ready for operation.

Operation

Automatic operation

The HDMI switch features automatic operation that allows the switch to automatically select the most recently activated or connected HDMI source device. Simply connect a new device or turn on an already connected device to automatically switch video sources.

Priority operation

The HDMI switch features priority operation which will prioritize port 1 and port 2 respectfully. When you turn on the higher prioritized video source device (port-1), that video source will automatically be selected. Turning off the device will automatically switch back to the lower prioritized video source (port-2).

Manual operation

Manual mode enables you to switch between video sources with push button operation.

Manual operation with a selection button

Press the input Selection button, on the front of the switch to toggle between each video source device. The active port LED indicator will light as video sources are switched, indicating which port is selected.

Manual operation with remote control

Press 1 or 2 on the remote control to switch between HDMI ports in1 or in2 respectively



Manual operation with serial control

1. Configure the settings on your serial port with the below configuration: **Baud**
 - **Rate:** 38400 bps Data
 - **Bits:** 8
 - **Parity:** None
 - **Stop Bits:** 1
 - **Flow Control:** None
2. Open your terminal software to communicate through the serial port that the switch is connected to, and use the on-screen commands displayed to operate and configure your switch.

```

COM4,38400,None,8,1,Dumb Terminal
D
Booting ..
Booting ..
=====
Digital Switch Splitter 2 x 1 (MICRO D) 4KHZ
H/W version: B3 F/W version: 006-13
RCO Switch: Switch
RC ID: none
=====
>?
=====
Clen,a1,a2 - Copy EDID (Inventory) to all input ports
n: Method. a1,a2: Options
1, Copy from specified monitor a1
2, Copy from corresponding monitor (1 on 1)
3, Make 1024 x 768 EDID
4, Make 1280 x 800 EDID
5, Make 1280 x 1024 EDID
6, Make 1360 x 768 EDID
7, Make 1400 x 1050 EDID
8, Make 1440 x 900 EDID
9, Make 1600 x 900 EDID
10, Make 1600 x 1200 EDID
11, Make 1680 x 1050 EDID
12, Make 1920 x 1080 EDID
13, Make 1920 x 1200 EDID
14, Make 1920 x 1440 EDID
15, Make 2048 x 1152 EDID
16, Make 2560 x 1440 EDID
17, Make 2560 x 1600 EDID
18, Make 3840 x 2160 EDID
19, Make 4096 x 2160 EDID
More...

when n = 1:
a1: monitor index (1-2), a2: not required
when n = 2:
a1,a2: not required
when n = 3-15:
a1: video options
1, DVI 2, HDMI (2D) 3, HDMI (3D)
a2: audio options
1, LPCM 2 ch 8, DTS 5.1 ch
2, LPCM 5.1 ch 9, DTS HD 5.1 ch
3, LPCM 7.1 ch 10, DTS HD 7.1 ch
4, Dolby AC3 5.1 ch 11, MPEG4 AAC 5.1 ch
5, Dolby TrueHD 5.1 ch 12, 5.1 ch combination
6, Dolby TrueHD 7.1 ch 13, 7.1 ch combination
7, Dolby E-AC3 7.1 ch

AVI=n - Select input port n as the source of all output ports
AVOEN=n - Enable output port n
n: 1-max - output port, * - All ports
AVODIS=n - Disable output port n
n: 1-max - output port, * - All ports
VS - View current settings
More...
PI - Product information
EQ=n - Set EQ level as n (1-8)
TVG=n - Set input VCO Gain level as n (1-8)
VVG=n - Set output VCO Gain level as n (1-8)
FACTORY - Reset as factory default setting
REBOOT - Reboot the device
RCID=n - Set Remote Control ID as n
n: 0 - Reset as null (Always enabled)
1-16 - Valid ID
BEEP=n - Beep on / off n: 0 - Off 1 - On
TIN=n - Set terminal interface n: 0 - Human 167 - Machine
LCK=n - Lock / Unlock device n: 0 - Unlock 167 - Lock
=====
State: OPEN TX:4 RX:2457
  
```

What's in the package



FCC Compliance 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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful 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 the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This 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.
Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

Industry Canada Statement

This Class A digital apparatus complies with Canadian ICES-003.

CAN ICES-3 (A)/NMB-3(A)

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This product is backed by a two-year warranty. 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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FAQ's

What is the purpose of the StarTech.com VS221HD4K HDMI switch?

The StarTech.com VS221HD4K is a 2-port HDMI switch designed to allow you to switch between two HDMI sources and display them on a single HDMI output, such as a TV or monitor.

What is the maximum resolution supported by this HDMI switch?

The VS221HD4K supports resolutions up to 4K Ultra HD (3840 x 2160) at 30Hz, making it suitable for high-definition content.

Does this switch require a power source?

Yes, the VS221HD4K requires power to operate. It includes a power adapter that needs to be connected for the switch to function.

How does the automatic switching feature work?

The VS221HD4K features automatic switching, which means it can automatically detect and switch to the active HDMI source. When one source becomes active (e.g., you turn on a device), the switch will

automatically change to that source.

Can I manually switch between sources?

Yes, the VS221HD4K also offers manual switching. You can use the included remote control or the front-panel buttons on the switch to manually select the desired HDMI source.

What devices can I connect to this HDMI switch?

You can connect a variety of HDMI sources, such as gaming consoles, Blu-ray players, set-top boxes, laptops, and more, to the HDMI inputs on the switch.

How do I set up the HDMI switch?

Connect your HDMI sources to the switch's HDMI inputs using HDMI cables. Then, connect the switch's HDMI output to your TV or monitor. Finally, connect the power adapter to the switch and a power outlet.

Can I use this HDMI switch to extend my desktop across multiple monitors?

No, the VS221HD4K is designed to switch between HDMI sources on a single display, not to extend your desktop across multiple monitors.

Does this switch support audio pass-through?

Yes, the HDMI switch supports audio pass-through, allowing both video and audio signals to be transmitted to the connected display.

Is the HDMI switch HDCP compliant?

Yes, the VS221HD4K is HDCP 1.4 compliant, ensuring compatibility with protected content from devices like Blu-ray players and streaming devices.

What's included in the package?

The package includes the StarTech.com VS221HD4K 2-Port HDMI 4K Automatic Switch, a remote control, an IR extender, a power adapter, and a user manual.

Can I daisy-chain multiple HDMI switches together?

Generally, daisy-chaining HDMI switches may lead to signal degradation and compatibility issues. It's recommended to use a higher-capacity switch or a different solution if you need to connect more devices.

