

## VGA+HDMI® to HDMI Audio/Video Converter Switch

VS221VGA2HD



\*actual product may vary from photos

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## FCC Compliance Statement

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 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 receiver.
- Connect the equipment into 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.

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# Introduction

## Packaging Contents

- VGA+HDMI to HDMI Converter Switch (VS221VGA2HD)
- Mounting Bracket Set
- Universal Power Adapter (NA/EU/UK)
- Instruction Manual

## System Requirements

- HDMI-enabled source device w/ HDMI cable (i.e. computer, Blu-ray player)
- VGA-enabled source device w/ VGA cable (i.e. computer)
- HDMI-enabled display device w/ HDMI cable (i.e. television, projector)
- 3.5mm audio cable (optional for VGA audio support)

# Product Diagram

## Front View



1. Input Selection / Screen Left Adjustment Button
2. Resolution adjustment / screen right adjustment button
3. HDMI audio/video Input Port #1
4. HDMI LED Indicator
5. VGA LED Indicator
6. 3.5mm Audio Input Port #2
7. VGA Input Port #2

## Rear View



1. Power Adapter Port
2. HDMI Output Port
3. Mode Selection Switch

# Hardware Installation

1. Using an HDMI cable (not included), connect your HDMI-enabled video source device to the HDMI audio/video input port #1 on the VS221VGA2HD.
2. Using a VGA cable (not included), connect your VGA-enabled video source device to the VGA audio/video input port #2 on the VS221VGA2HD.
3. (Optional) If your VGA-enabled video source device includes an audio output, connect the audio source output on the device to the 3.5mm audio input port #2 on the VS221VGA2HD using a 3.5mm audio cable (not included).
4. Using an HDMI cable (not included), connect your HDMI-enabled display device to the VS221VGA2HD.
5. Using the included power adapter, connect the power adapter port on the VS221VGA2HD to an available power outlet.
6. Turn on the HDMI-enabled display device as well as any connected HDMI & VGA-enabled video source devices.

## Mode Selection and Switch Operation

Change the mode selection switch to choose your desired operation mode. Instructions and descriptions for each operation mode are listed below:

### Manual Mode

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

1. Set the mode selection switch to "Manual Switch" to place the VS221VGA2HD into manual mode.
2. Press the Input Selection Button to toggle between each video source device. The active port LED indicator will light as video sources are switched, indicating which port is selected.

## Priority Mode

Priority mode enables you to select a prioritized video input device that will automatically be selected should that device be turned on.

1. Set the mode selection switch to "HDMI Priority" or "VGA Priority" to place the VS221VGA2HD into your choice Video Source Device priority.
2. Your HDMI or VGA Video source device (depending on your selection) will now automatically be displayed on your HDMI-enabled video display device while it is turned on. Turning off the device will automatically switch the display to the remaining device.

## Automatic Mode

Automatic Mode enables the VS221VGA2HD to automatically select the most recently turned on video source device.

1. Set the mode selection switch to "Auto" to place the VS221VGA2HD into automatic mode.
2. The VS221VGA2VHD will now automatically switch to the most recently turned on video source device.

## Screen Shift Mode

Screen Shift Mode can move the screen image to right or left side on the monitor (horizontal position) for comfortable viewing.

1. Press both screen adjustment buttons simultaneously for 2 seconds and release after the VGA input LED turns to pale blue.
2. Press left screen adjustment button or right screen adjustment button (B2) to adjust image to your desired position.

### Notes:

- The system will automatically escape from shift mode if no activity is detected within 20 seconds.
- For adjusting horizontal image displacement, the maximum number of adjustments is 50 steps.
- The VS221VGA2HD will automatically retain your last setting.

## Resolution Alteration Mode

If the resolution output from your video source device is not supported by your video display device, the VS221VGA2HD will alert you through the VGA input LED by emitting blue and flashing orange three times. This will be accompanied by your video source not being displayed on the video display device. You can follow the below steps to use Resolution Alteration mode to resolve these symptoms should they occur.

1. Press the resolution adjustment button for 2 seconds and release when the VGA input LED flashes purple.
2. The LED flashes purple once indicating the setting working.

### NOTES:

- Repeat these steps again to select next available resolution or to switch back to the previous resolution.
- The VS221VGA2HD will automatically retain your last setting.

# LED Indicators

VGA LED Indicator	Type of Monitor Connected	Video Source Device Active
Emit Green and Flash Blue (3 Times)	HDMI	No
Emit Green and Flash Blue (2 Times)	DVI w/ adapter (not included)	No
Emit Blue and Flash Green (3 Times)	HDMI	Yes
Emit Blue and Flash Green (2 Times)	DVI w/ adapter (not included)	Yes
Emit Green and Flash Red (1 time)	No monitor attached	No
Emit Blue and Flash Red (1 time)	No monitor attached	Yes

HDMI LED Indicator	Type of Monitor Connected	Video Source Device Active	HDCP signal Detected
Emit Green and Flash Blue (3 Times)	HDMI	No	N/A
Emit Green and Flash Blue (2 Times)	DVI w/ adapter (not included)	No	N/A
Emits Blue and goes off (3 times)	HDMI	Yes	N/A
Emits Blue and goes off (2 Times)	DVI w/ adapter (not included)	Yes	N/A
Emits Purple and goes off (3 times)	HDMI	Yes	Yes
Emits Purple and goes off (2 times)	DVI w/ adapter (not included)	Yes	Yes
Emit Green and Flash Red (1 time)	No monitor detected	No	N/A
Emit Blue and Flash Red (1 time)	No monitor detected	Yes	N/A

# Specifications

<b>Video Input Signals</b>	1 x VGA 1 x HDMI
<b>Video Output Signals</b>	1 x HDMI
<b>Maximum Video Resolution</b>	1920x1200 (WUXGA)
<b>Audio Support</b>	3.5mm Stereo Audio
<b>Supported Switch Modes</b>	Automatic, Priority, Manual

# Technical Support

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## Warranty Information

This product is backed by a two 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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