

## Features

- Convert a VGA and Analog Audio Signal to a Digital Video Signal
- LED status indicators for instant troubleshooting and monitoring
- HDTV compatible
- Intelligent EDID handling and processing algorithm ensures plug-and-play operation with digital video output systems
- Compliant with HDMI v1.3
- Compatible with most popular video resolutions
- Supports resolutions up to Full HD (1920 x 1080) and QWXGA (2048 x 1152)
- Screen Shift Mode allows users to adjust image positioning
- Use Resolution Alteration Mode when detecting multiple similar video timings

## Package Contents

- 1 x Video Converter Unit
- 1 x USB Power Cable
- 1 x User Manual
- 1 x Foot Pad Set

- Prior to installation, ensure that all devices to be connected to the system are powered off.
- Ensure that all connected devices are properly grounded.
- Place cables away from fluorescent lights, air conditioners, and other machines that may generate electrical noise.

# User Manual

## VGA to HDMI Converter With Audio



### VC-AD-1V1H



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- The final specification is based on the actual product.
- Features and functions may be added or changed after the manual was written. Please visit our website to download the latest version of manual for reference.



RXN-VC-R02.1

### Resolution Alteration Mode

For certain video resolutions, the LED will turn Blue and flash Orange twice when detecting multiple similar video timings. Users can activate Resolution Alteration Mode to select the correct video resolution.

**Step 1:** Press and hold the Right Button (Sr) for over 2 seconds.

**Step 2:** The LED will flash Purple once to indicate entry into Resolution Alteration Mode and starts cycling through compatible resolutions.

**NOTE:** The system will automatically retain the user's last setting.

### EDID Configuration

In some cases, display problems may occur due to incorrect EDID communication between the display monitor and the unit, or due to inappropriate EDID data programmed by display manufacturers. The EDID Copy feature allows the system to either automatically provide the necessary EDID to the display or manually copy EDID from EDID-compliant displays via a push button.

#### Auto EDID Mode (Factory Default Setting)

To automatically read EDID from the connected display, follow the steps below:

**Step 1:** Power off the device.

**Step 2:** Press and hold the Left Button (Sl), then power on the device.

**Step 3:** Release the button right after the Status LED flashes Green (approximately 15 seconds).

**Step 4:** The Status LED will begin flashing Green and Red alternately.

#### Manual EDID Mode (EDID Copy / EDID Ghost)

To manually copy EDID from the connected display, follow the steps below:

**Step 1:** Power off the device.

**Step 2:** Press and hold the Left Button (Sl), then power on the device.

**Step 3:** Release the button right after the Status LED flashes Red (approximately 20 seconds).

**Step 4:** The Status LED will begin flashing Green and Red alternately.

**NOTE:** If the display cable is unplugged and the Status LED flashes Red, the device is in Auto EDID Mode. If the Status LED flashes Purple, the device is in Manual EDID Mode.

### Resolution / Refresh Rate

Resolution	Refresh Rate
640 x 350	85 / 60
640 x 400	85
640 x 480	72
720 x 400	85 / 60
720 x 576	50
800 x 600	85 / 75 / 72 / 60 / 56 / 50
848 x 480	85 / 75 / 60 / 50 & 60(R)
1024 x 768	85 / 75 / 70 / 60 / 50 & 60(R)
1152 x 864	75
1280 x 720	85 / 75 / 60 / 50 & 60(R)
1280 x 768	85 / 75 / 60 / 50 & 60(R)
1280 x 800	85 / 75 / 60 & 60(R)
1280 x 960	85 / 75 / 60 / 50 & 60(R)
1280 x 1024	58 / 75 / 60 & 60(R)
1360 x 768	85 / 75 / 50
1366 x 768	60 & 60(R)
1400 x 1050	85 / 75 / 60 & 60(R)
1440 x 240	60
1440 x 480	60
1440 x 576	50
1440 x 900	85 / 75 / 60 & 60(R)
1440 x 1050	75
1600 x 900	60(R)
1600 x 1200	60 & 60(R)
1680 x 1050	60 / 50 & 60(R)
1920 x 1080	60 / 50 / 30 & 60(I)
1920 x 1200	60 / 50 & 60(R)
2880 x 240	60
2880 x 288	50

(R): Reduce Blanking

(I): Interlaced Scan

**Note:** If your video resolution is above 2048 x 1152, it may not display properly. Anything higher than that might show up distorted (oversized or with black borders) or not display at all.

## Specifications

VC-AD-1V1H	
Input	VGA x 1 Analog Stereo Audio x 1
Output	HDMI x 1
Button	x 2 (See <b>Operation</b> Section)
LED Indicator	Power / System Status (Multi-Colour)
Resolution (Max.)	Full HD (1920 x 1080) QWXGA (2048 x 1152)
Transmission Rate (Max.)	5Gbps
Frequency Range	25 ~ 225 MHz
Power Consumption	DC 5V (min. 450mA)
Operating Environment	0 ~ 40°C, Humidity < 80%
Storage Temperature	-20 ~ 60°C
Enclosure	Metal
Dimensions H x W x D	20 x 52 x 80 (mm)
Weight	180g

### Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS, LOSS OF BUSINESS, OR FINANCIAL LOSS CAUSED BY THE USE OF THE PRODUCT EXCEED THE PRICE PAID FOR THE PRODUCT.

The direct vendor makes no warranty or representation, expressed or implied, with respect to the contents or use of this documentation, and expressly disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the product or documentation without obligation to notify any user of such revisions or updates. For further information, please contact your direct vendor.

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## Installation

- 1) Use a HDMI cable to connect the display to the output port on the unit.
- 2) a. Use a VGA cable to connect the video source device to the input port on the unit.  
b. If necessary, connect the stereo audio source to the 3.5mm input.
- 3) Power on the unit and then turn on the display and source device last.

**NOTE:** The unit must be connected to the computer **before** the computer is powered on.

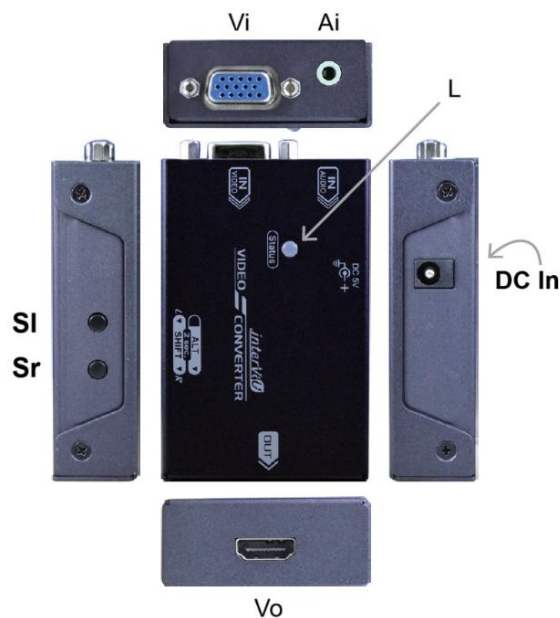
## Connection Pattern



## LED Indicator for Output Status

LED	Monitor	Source
Emit Green and Flash Red Once	N/A	N/A
Emit Green and Flash Blue Three Times	Detected	N/A
Emit Blue and Flash Red Once	N/A	Detected
Emit Blue and Flash Green Three Times	Detected	Detected

## Product Descriptions



<b>Ai</b>	Audio Input	Connect to the analog audio source
<b>Vi</b>	VGA Input	Connect to the VGA source
<b>Sl</b>	Left Button	Shift image to the left
<b>Sr</b>	Right Button	Shift image to the right / Resolution Alteration
<b>Vo</b>	HDMI Output	Connect to the HDMI display
<b>L</b>	LED Indicator	Power / Status

## Operation

The converter is easy to use and supports plug-and-play functionality.

- Once the video source is connected, it will take approximately 2–5 seconds for the system to detect and convert the video signal.
- After powering on, the monitor may take about 8 secs to display the video. These are normal behaviours.

Some monitors or video sources may cause the following issues:

- **Image too wide or narrow** – If the screen appears stretched or compressed, and the LED indicator turns Blue and flashes Orange twice, try selecting a different resolution that better fits your monitor. Please refer to the "**Resolution Alteration Mode**" section for guidance.
- **Image shifted left or right** – If the display is not centered, you can adjust the horizontal position of the screen. Please see the "**Screen Shift Mode**" section for instructions.

If the following occurs, it may indicate a product limitation:

- The LED indicator emits Blue and flashes Green three times (indicating that video timing is detected correctly), but the screen displays abnormally.
- The LED indicator turns Blue and flashes Orange twice, but no suitable resolution can be selected.

## Video Adjustment Operation

### Screen Shift Mode

Screen Shift Mode allows you to move the image to the left or right side of the monitor (horizontal position) for more comfortable viewing.

**Step 1:** Press and hold both Shift buttons (**Sl** & **Sr**) simultaneously for more than 2 seconds, then release the buttons **immediately after** the Status LED turns pale blue.

**Step 2:** Press the left or right button to adjust the horizontal position of the image.

**Note:**

- 1) The system will automatically exit Shift Mode if no activity is detected within 20 seconds.
- 2) The maximum horizontal image displacement is 50 steps.
- 3) The system will automatically retain the user's last setting.