

User's Manual

VGA & Audio to DVI / HDMI Converter



Model	IN	OUT
VCAVD-021	VGA+Audio	DVI
VCAVM-021		HDMI



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- ▣ The final specification is the actual product based.
- ▣ 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.

PP5-RHAA12Z-000

RoHS

- Convert a VGA and analog audio signal to a digital video signal
- LED Status indicates for instant troubleshooting and monitoring
- HDTV Compatibility
- Intelligent EDID handling and processing algorithm ensures Plug and Play operation for digital video output systems
- Compliant with HDMI v1.3
- Compatible with most of the popular video resolution
- Support max. resolution up to Full HD (1920 x 1080) & QWXGA (2048 x 1152)
- Screen Shift Mode provides user to adjust image's shifting
- Use Resolution Alteration Mode when catching multiple similar video timing

Package Contents

Video Converter Unit	x 1
Power supplies	
USB Power Cable	x 1 (set / pc)
Power Adapter Set (option)	
Power Adapter with necessary AC Cord	
or	
Plug-in Power Adapter	
User's Manual	x 1
Foot Pad Set	x 1

Optional:

VGA Cable / Audio Cable

- Prior to installation, ensure to power off all devices that will be connected to this system.
- Ensure that all devices you will connect are properly grounded.
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

Resolution Alteration Mode

Under some particular video resolution, LED will turn to emit Blue and flash Orange twice when catching multiple similar video timing. User can use Resolution Alteration Mode to select proper video resolution.

Step 1. Press Right Button (Sr) over 2 sec.

Step 2. LED flashes Purple once entering in Resolution Alteration Mode

NOTE: The system will automatically retain 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 inappropriate EDID data programmed by display manufactures. This EDID Copy feature allows the system either automatically provide the necessary EDID to display or manually copy EDID from EDID compliant displays via push button.

Auto EDID Mode (Factory Default Setting)

If wanting to read EDID automatically from the connected display, please follow steps as below.

Step 1. Power off the device

Step 2. Press Left Button (SI) and power on.

Step 3. Release the button RIGHT AFTER the Status LED flashes Green.
(around 15 sec.)

Step 4. The Status LED turns to flash Green and Red respectively.

Manual EDID Mode (EDID Copy / EDID Ghost)

If users need to copy EDID from the connected display, please follow steps as below.

Step 1. Power off the device

Step 2. Press left button (SI) and power on.

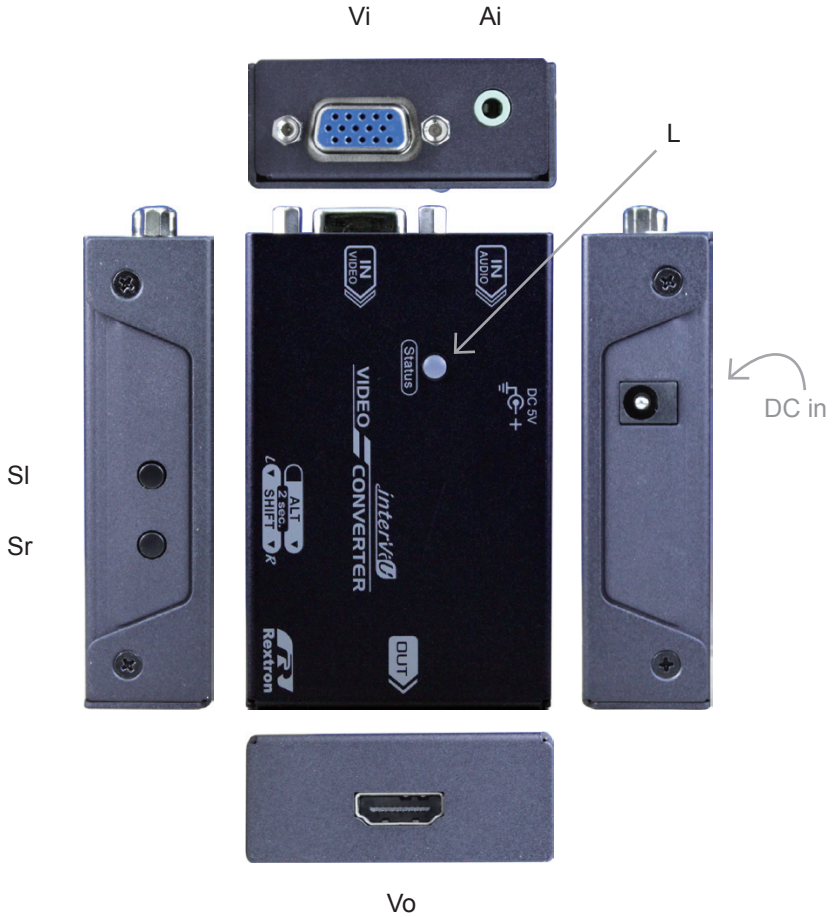
Step 3. Release the button RIGHT AFTER the Status LED flashes Red.
(around 20 sec.)

Step 4. The Status LED turns to flash Green and Red respectively.

NOTE:

Plug off the cable from display, the Status LED flashes Red meaning the device is in Auto EDID Mode. If the Status LED flashes Purple, it would be in the Manual EDID Mode.

Product Description



Ai	Audio Input	Connect to the analog audio source
Vi	VGA Input	Connect to the VGA Source
Sl	Left Button	Shift image to left side
Sr	Right Button	Shift image to right side / Resolution alteration
Vo	DVI / HDMI Output	Connect to the DVI / HDMI Display
L	LED Indicator	Power / Status

Operation

The converter is easy use, plug-and-play.

- Once the video source has been connected, it will take 2~5 sec. for the system detecting and video converting.
- When powering on, monitor will take about 8 seconds to display.

These are normal phenomenons.

Some monitors or sources may cause as below:

- The screen becomes too wide or narrow and LED turns to emit Blue and flash Orange twice, user can select another resolution to suit your monitor.

Please see "**Resolution Alteration Mode**" section

- The screen is shifted too left or right, users can adjust horizontal of the screen.

Please see "**Screen Shift Mode**" to improve it.

If it happened as below, it would be **limitation** of the product.

- LED indicator emits Blue and flash Green three times (meaning video timing is detected normally) but the screen displays abnormally.
- LED indicator turns to emit Blue and flash Orange twice, but it can't be selected a proper resolution.

Video Adjustment Operation

Screen Shift Mode

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

Step 1. Press both **Shift** buttons (Sl&Sr) simultaneously over 2 sec. and release the button RIGHT AFTER the Status LED turns to Pale Blue.

Step 2. Press left button or right button to adjust image's position.

NOTICE:

1. The system will automatically escape from shift mode if no activity is detected within 20 seconds.
2. Max. horizontal image displacement is 50 steps.
3. The system will automatically retain user's last setting.

Installation

1. Use a DVI / 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. Connect the stereo audio source to 3.5mm earphone jack (if necessary)
3. Apply proper power to the unit. After finishing the installation you may now turn on the display and source devices.

NOTE:

The unit is required to connect 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

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:

It can possibly work if users' video resolution does not limited above video resolution like **2048 x 1152**. (It maybe displays oversized or narrow frame bcause it is limitation of the product.)

Specifications

	VCAVD-021	VCAVM-021
Input	VGA x 1 Analog Stereo Audio x 1	
Output	DVI x 1	HDMI x 1
Button	x 2 (See Operation section)	
LED Indicator	Power / System Status (Multi-Color)	
Resolution (Max.)	Full HD (1920 x 1080) QWXGA (2048 x 1152)	
Transmissionrate (Max.)	5Gbps	
Frequency Range	25~225MHz	
Power Consumption	DC 5V (min. 450 mA)	
Dimensions H x W x D	20 x 52 x 80 (mm)	
Weight	180~190g	

Limited Warranty

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