

# User Manual



## CVHH2 1x1 HDMI Signal Manager



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Version: CVHH2\_2016V1.0

## Preface

Read this user manual carefully before using this product. Pictures shown in this manual is for reference only, different model and specifications are subject to real product.

This manual is only for operation instruction only, not for any maintenance usage. The functions described in this version are updated till November 2016. Any changes of functions and parameters since then will be informed separately. Please refer to the dealers for the latest details.

**All product function is valid till 2016-11-28.**

## Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without prior written consent.

## FCC Statement

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. It 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 commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



## **SAFETY PRECAUTIONS**

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

## 1. Introduction

CVHH2 is a 1x1 HDMI signal manager supports HDMI2.0&HDCP2.2. It is designed to enhance the compatibility between HDMI source and display. The high-definition HDMI signal can be transmitted from HDMI source to match all kinds of display device.

The transmission distance of 4k\*2k@60Hz (max) signal can up to 15m. Beside straight-through HDMI transmission, the EDID bypass function ensures the best resolution.

### 1.1 Features

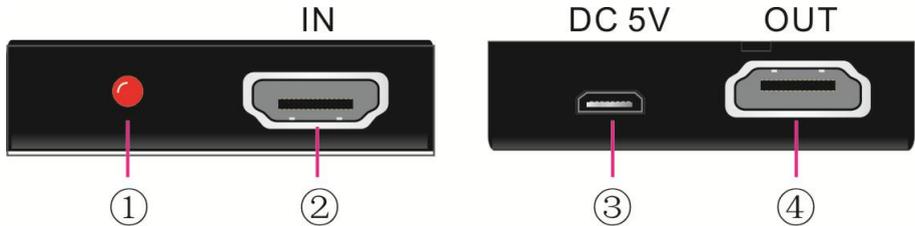
- Supports HDMI2.0& HDCP2.2
- EDID bypass
- Auto input resolution detection
- Easy to install and simple to operate

### 1.2 Package List

- |                                |                        |
|--------------------------------|------------------------|
| ✓ 1 x CVHH2                    | ✓ 2 x Mounting ears    |
| ✓ 2 x Screws                   | ✓ 4 x Plastic cushions |
| ✓ 1 x Power Adapter (DC 5V 1A) | ✓ 1 x User manual      |

 Check whether all the items listed above are included in your package. If not, contact your dealer to make up.

## 2. Appearances

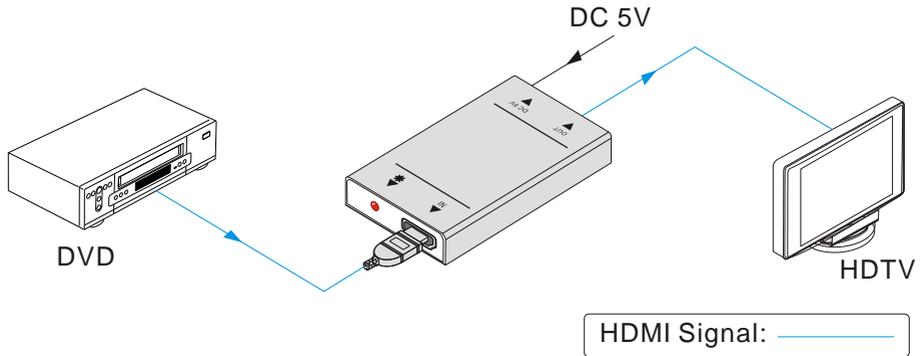


No.	Name	Description
①	Power Indicator	Illuminate red when powered on
②	IN	Connect with HDMI/ DVI source
③	DC 5V	Micro USB power port, insert DC 5V 1A power adapter
④	OUT	Connect with HDMI/ DVI display

 Pictures shown in this manual are for reference only.

### 3. System Connection

The figure below illustrates a typical connection that can be utilized with CVHH2:



**Step1.** Connect a HDMI source (e.g. a Blu-ray DVD) to **IN** port of CVHH2;

**Step2.** Connect a HDMI display (e.g. a Blu-ray DVD) to **OUT** port of CVHH2;

**Step3.** Plug DC 5V 1A power adapter into the power port of CVHH2.

1. System should be installed in a clean environment with prop temperature and humidity.
2. All of the power switches, plugs, sockets and power cords should be insulated.
3. All devices should be connected before power on.

## 4. Specification

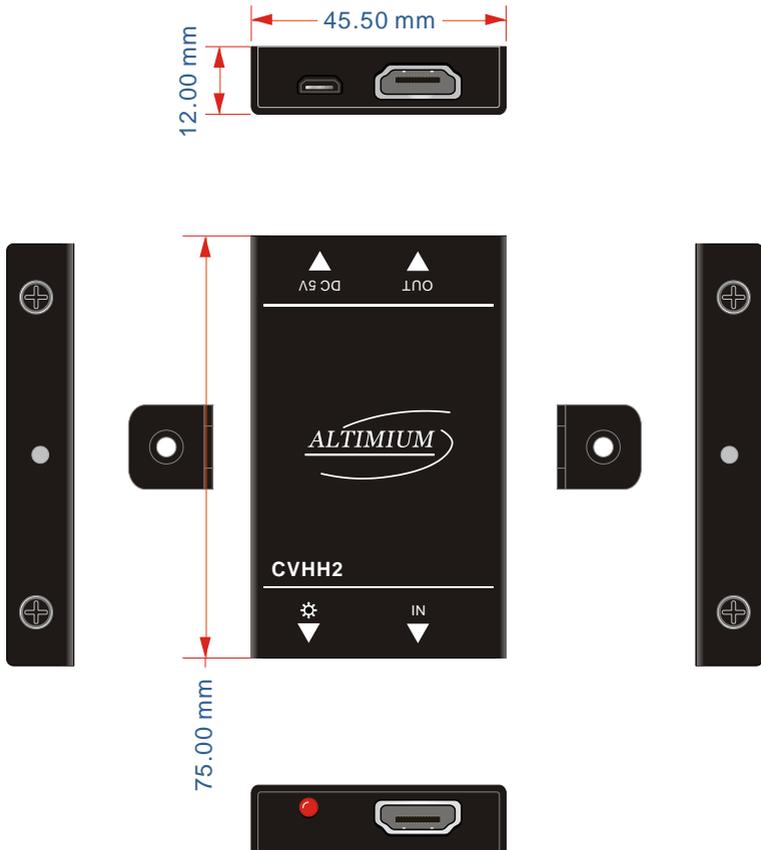
Input		Output	
Input	1 HDMI IN	Output	1 HDMI OUT
Connector	19-pin type-A female HDMI	Connector	19-pin type-A female HDMI
Audio	HDMI embedded audio	Audio	HDMI embedded audio
<b>General</b>			
Transmission Distance	4K*2K@60Hz≤15m 1080P≤20m		
Bandwidth	18Gbps		
Audio	Support PCM (2.0,2.1,5.1,6.1,7.1, ), Dolby Digital (5.1)、DTS-HD (5.1,7.1) ,DD+/True HD (2.0,5.1,7.1) DTS-ES 6.1		
Audio Sampling Rate	32k, 44.1k, 48k, 88.2k, 96k, 176.4k, 192k		
Power Supply	DC 5V 1A	Power Consumption	0.5W
Dimensions (W*H*D)	45.5*12*75 mm	Weight	49g
Work Temperature	0~50℃	Reference Humidity	10%-90%
EDID Management	Support pass-through EDID		

### 4.1 Supported Resolution

4K	3840*2160, 4096*2160 (30Hz/60Hz)
16:9	1920*1080, 1600*900, 1366*768, 1280*720, 1024*576 (60Hz)
16:10	1920*1200, 1680*1050, 1440*900, 1360*768, 1280*800 (60Hz)
4:3	1600*1200, 1400*1050, 1280*1204, 1024*768, 800*600, 640*480 (60Hz)
21:9	2560*1080 (30Hz/60Hz)

 Use quality HDMI cable to connect the devices to ensure preferred transmission effect.

## 5. Panel Drawing



## 6. Troubleshooting & Maintenance

Problems	Causes	Solutions
Color losing or vague/ double image in HDMI display	Poor quality of the optical fiber cable	Change for qualified HDMI cable.
Power led is off, operations don't work	Not been powered	Power up the unit
	Poor contact of power port	Make sure power adapter is in well contact
No output on the display	Source/ Display is off	Turn on the source/ display
	Poor contact of HDMI ports	Check the HDMI ports one by one to make sure they're in well contact.

 If your problem persists after following the above troubleshooting steps, seek further help from authorized dealer or our technical support.

## 7. After-sales Service

If there appear some problems when running the device, please check and deal with the problems reference to this user manual.

**1. Product Limited Warranty:** We warrants that our products will be free from defects in materials and workmanship for **three years**, which starts from the first day the product leaves warehouse (check the SN mark on the product). Proof of purchase in the form of a bill of sale or receipted invoice must be presented to obtain warranty service.

**2. What the warranty does not cover:**

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
  - Normal wear and tear
  - Use of supplies or parts not meeting our specifications
  - No certificate or invoice as the proof of warranty.
  - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
  - Damage caused by force majeure.
  - Servicing not authorized
  - Other causes which does not relate to a product defect
- Delivery, installation or labor charges for installation or setup of the product

**3. Technical Support:** Email to our after-sales department or make a call, please inform us the following information about your cases.

- Product version and name.
- Detailed failure situations.
- The formation of the cases.

**Remarks:** For any questions or problems, please try to get help from your local distributor.





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