



## 4K HDMI® Conditioner

Vanco Part Number:  
HDVC1

**Technical Support**

[www.vanco1.com](http://www.vanco1.com) • [techsupport@vanco1.com](mailto:techsupport@vanco1.com) • 800-626-6445

## DEAR CUSTOMER

Thank you for purchasing this product.  
For optimum performance and safety, please  
read these instructions carefully before  
connecting, operating or adjusting this product.  
Please keep this manual for future reference.

This product is 100% inspected and tested in the United States to verify HDMI performance parameters.

## WARNING

1. Do not expose this unit to water, moisture, or excessive humidity.
2. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
3. To prevent risk of electrical shock or fire hazard, due to overheating, do not obstruct unit's ventilation openings.
4. Do not install near any source of heat, including other units that may produce heat.
5. Do not place unit near flames.
6. Only clean unit with a dry cloth.
7. Unplug unit during lightening storms, or when not used for an extended period of time. A surge protector is strongly recommended.
8. Protect the power cord from being walked on or pinched, particularly at the plugs.
9. Use unit only with accessories specified by the manufacturer.
10. Refer all servicing to qualified personnel.

## CAUTION

HDMI is a very complex technology requiring continuous authentication of the signal and the same video resolution and audio settings on all electronic equipment in the system. When there are multiple sources and displays, the video resolution and audio setting on all connected units must be adjusted to correspond with that of the display having the lowest video and audio capability.

## FEATURES

The HDVC1 allows for high-definition HDMI transmission and HDCP conversion for legacy 4K TV's, and projectors. The HDMI IN port supports HDMI2.0 with HDCP 2.2 and is backwards compatible with lower HDMI standards. The HDMI OUT port supports HDMI1.4 & HDCP1.4. It transmits 4kx2k@60Hz (max) signal up to 49ft/15m. The EDID bypass function ensures the best resolution.

### **4K HDMI® Conditioner**

#### **Part # HDVC1**

- Allows for High-definition HDMI transmission and HDCP conversion for legacy 4K TV's and projectors
- HDMI Input supports 4K@60Hz with HDCP 2.2 and is backwards compatible with lower HDCP standards
- HDMI Output supports 4K@60Hz with HDCP 1.4
- Transmits 4Kx2K @ 60Hz (max) signal up to 49 feet/15m
- EDID bypass function ensures the best resolution
- Resynchronizes, conditions, and equalizes HDMI signals
- Auto input resolution detection maintains native resolution and aspect ratio
- Plug and play installation and operation
- Dimensions: 1.79" x .5" H x 2.9" D

## SPECIFICATIONS

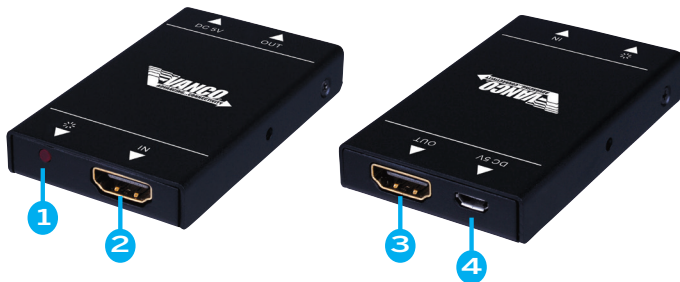
Input .....	1 HDMI IN
Input Connector .....	19-pin type-A female HDMI
Input HDMI Standard.....	Support HDMI2.0, compliant with HDCP 2.2 and is backwards compatible to previous versions of HDCP
Input Audio.....	HDMI embedded audio
Output.....	1 HDMI OUT
Output Connector .....	19-pin type-A female HDMI
Output HDMI Standard .....	Support HDMI1.4 & HDCP1.4
Output Audio .....	HDMI embedded audio
Transmission Distance.....	4K*2K@60Hz≤15m; 1080P≤20m
Bandwidth.....	18 Gbps
Audio.....	Support PCM (2.0,2.1,5.1,6.1,7.1) Dolby Digital (5.1) DTS-HD (5.1,7.1, DD+/TrueHD (2.0, 5.1, 7.1) DTS-ES 6.1
Audio Sampling Rate .....	32k, 44.1k, 48k, 88.2k, 96k, 176.4k, 192k
EDID Management .....	Support pass-through EDID
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)
Power Supply .....	DC 5V 1A
Work Temperature.....	0~50 Degrees C
Power Consumption .....	0.5W
Weight .....	49g
Reference Humidity.....	10%-90%

## PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

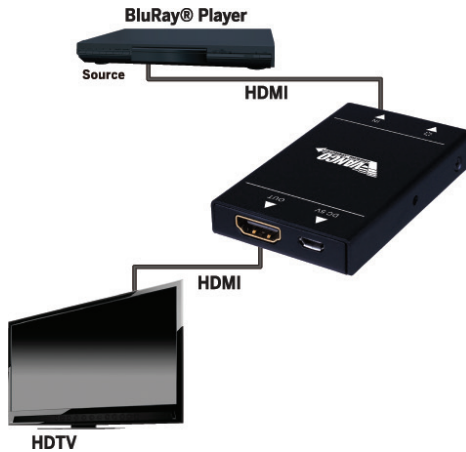
- 1x1 HDMI Converter
- Mounting Ears and Screws
- 4 Plastic Cushions
- Power Adapter (DC 5V 1A)
- User Manual

## PANEL DESCRIPTIONS



1. Power Indicator: Illuminate red when powered on
2. Input: Connect with HDMI/ DVI source
3. DC 5V: Micro USB power port, insert DC 5V 1A power adapter
4. Output: Connect with HDMI/ DVI display

## CONNECT AND OPERATE



1. Connect a HDMI source (e.g. a Blu-ray DVD) to IN port of 1x1 HDMI Converter
2. Connect a HDMI display (e.g. a Blu-ray DVD) to OUT port of 1x1 HDMI Converter
3. Plug DC 5V 1A power adapter into the power port of 1x1 HDMI Converter
4. System should be installed in a clean environment with prop temperature and humidity.
5. All of the power switches, plugs, sockets and power cords should be insulated
6. All devices should be connected before power on

# TROUBLESHOOTING

1. PROBLEM: Color losing or vague/ double image in HDMI display. CAUSE: Poor quality of the optical fiber cable. SOLUTION: Change for qualified HDMI cable.
2. PROBLEM: Power led is off, operations don't work. CAUSE: Not BEEN powered. SOLUTION: Power up the unit.
3. PROBLEM: Power led is off, operations don't work. CAUSE: Poor contact of power port. SOLUTION: Make sure power adapter is in good contact.
4. PROBLEM: No output on the display. CAUSE: Source/ Display is off. SOLUTION: Turn on the source/ display
5. PROBLEM: No output on the display. CAUSE: Poor contact of HDMI ports. SOLUTION: Check the HDMI ports one by one to make sure they're in well contact.

## SAFETY AND NOTICE

The HDVC1 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the HDVC1 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit.
- Always unplug the power to the device before cleaning.

## 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.



## 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 the prior written consent.

## LIMITED WARRANTY

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

## LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

## TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to [techsupport@vanco1.com](mailto:techsupport@vanco1.com).

When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call.

Please read this Instruction Manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation.

All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theater applications.

For additional information, such as helpful installation videos, glossary of terms, etc. please visit [vanco1.com](http://vanco1.com)

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