



4K HDMI® Down Scaler

Vanco Part Number:
HD4KSC

Technical Support

www.vanco1.com • 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 Vanco HD4KSC 4K HDMI Down Scaler can convert 4K signal resolution to 1080p in real time with no latency. Supports 4K/60 with HDR10 from the input source. Low profile and compact in size for the ability to place behind most displays. Features an optical audio output to de-embed audio, offering a great solution for soundbar applications. Perfect for any application with mixed 4K and 1080p resolution displays; install the HD4KSC at the 1080p displays without affecting 4K resolution on other displays.

4K HDMI® Down Scaler

Part # HD4KSC

- Seamlessly downscales 4K UHD signals to 1080p
- Perfect application for mixed 4K and 1080p resolution displays
- EDID adjustment to encourage source and scaler compatibility
- A great solution for matrix unit applications
- Slim and low profile size for installing behind display locations
- Optical audio breakout for de-embedding audio

PACKAGE CONTENTS

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

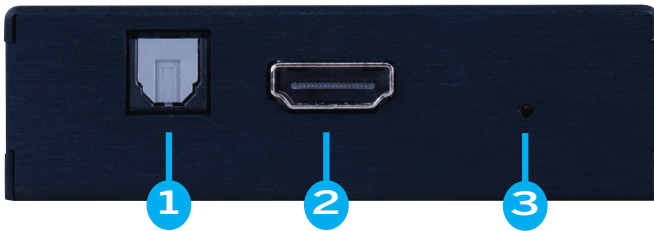
- HD4KSC Down Scaler
- Power Supply
- Product Manual

SPECIFICATIONS

Input	(1) HDMI
Outputs	(1) HDMI; (1) Optical
Video Resolution	4K@60Hz, 4:4:4 chroma, HDR
Video Formats	4K@60Hz, 4:4:4 chroma; 4K@60Hz, 4:2:2 chroma; 4K@60Hz, 4:2:0 chroma, HDR10@60Hz, HDR10@24Hz, 720P, 1080i, 1080p (+3D)
Audio Formats	Dolby, DTS, PCM
HDCP	1.4/2.2
Power	5V DC
Power Consumption	5V @2A
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Safety & Emission	CE, FCC, RoHS
Dimensions	3.1" W x 3.1" H x 1" D
Weight	0.1 lbs

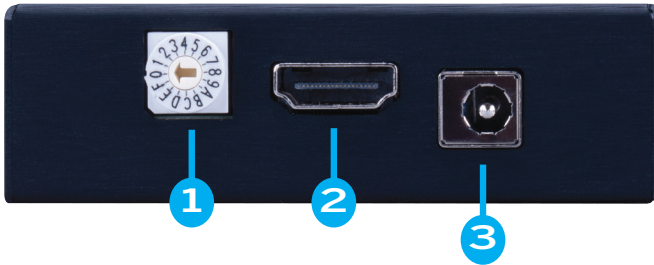
PANEL DESCRIPTIONS

Front Panel



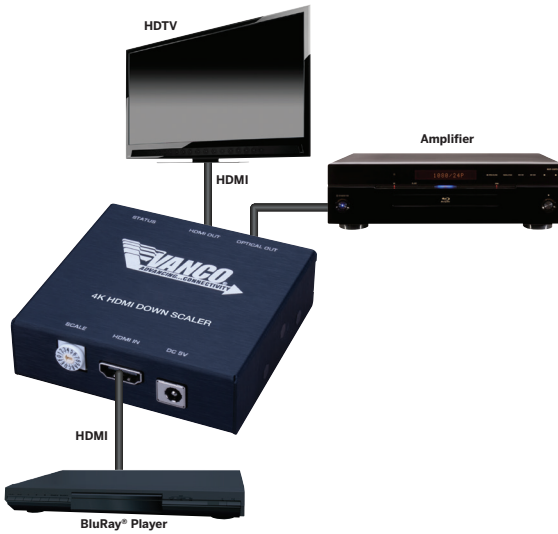
1. Optical Audio Output
2. HDMI Output
3. Status LED
 - Red: Powered on
 - Yellow: Configuring
 - Green: Audio and Video output signal

Back Panel



1. EDID Setting adjustment
2. HDMI Input
3. 5V DC: Connect the included power supply

CONNECTION DIAGRAM



1. Connect a source such as a Blu-Ray player, game console, Cable/Satellite receiver, etc. to the HDMI input
2. Connect a display such as an HDTV or Projector to the HDMI output
3. Connect a SPDIF optical audio cable from the device to the SPDIF input on an A/V receiver or amplifier
4. Set the EDID adjustment dial to the desired setting
5. Insert the 5v power supply provided with the unit and power on the connected devices

SCALING ADJUSTMENT DIAL

The HD4KSC is designed to take in 4K resolution while downscaling the output to 1080p. However, for proper compatibility, the EDID adjustment dial may need to be adjusted. This should be set to the expected INCOMING EDID (from the source) that will be downscaled to 1080p.

To adjust:

1. Ensure power is OFF
2. Using a small flathead screwdriver, turn the dial to the desired setting based upon the information below
3. Apply power and test

*If no picture is displayed, repeat process above and try different settings

0	Use saved EDID after copying from TV from setting 1
1	Copy EDID from a TV and save it. Switch to 0 after saving EDID
2	4K, HDR, 8CH Audio
3	4K, HDR, 6CH Audio
4	4K, HDR, 2CH Audio
5	4K, 8CH Audio
6	4K, 6CH Audio
7	4K, 2CH Audio
8-F	Reserved for future use

SAFETY AND NOTICE

The HD4KSC has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the HD4KSC 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.

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.

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

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