



HDMI® 3x1 Switch
with HDR and CEC

Vanco Part Number:
HDSW4K31

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 HDSW4K31 is an ultra-thin HDMI 2.0a Switcher with three HDMI video inputs and one HDMI output. The switcher supports HDMI video resolution up to 4K@60Hz 4:4:4 along with HDR10 and Dolby Vision capability. There is manual control option on the front panel is designed to switch any one of the inputs to output but also supports CEC (consumer electronic control) for instantly switching to the newest available source. There is no need of an external power supply, which for an easy and simplified installation.

HDMI® 3x1 Switch with HDR and CEC

Part # HDSW4K31

- Allows 3 HDMI sources to be switched to 1 display
- Supports 4K@60Hz and 4:4:4 Chroma subsampling
- HDCP 2.2 compliant
- Supports HDR10 and Dolby Vision
- Supports CEC (Consumer Electronics Control) pass-through

SPECIFICATIONS

Input

Input	(3) HDMI
Input Connector	(3) Female type-A HDMI
HDMI Input Resolution.....	Up to 4K@60Hz, 4:4:4 Chroma subsampling
HDMI Standard.....	2.0
HDCP Version.....	2.2

Output

Output.....	(1) HDMI
Output Connector	(1) Female type-A HDMI
HDMI Output Resolution	Up to 4K@60Hz, 4:4:4 Chroma subsampling
HDMI Standard.....	2.0
HDCP Version.....	2.2

General

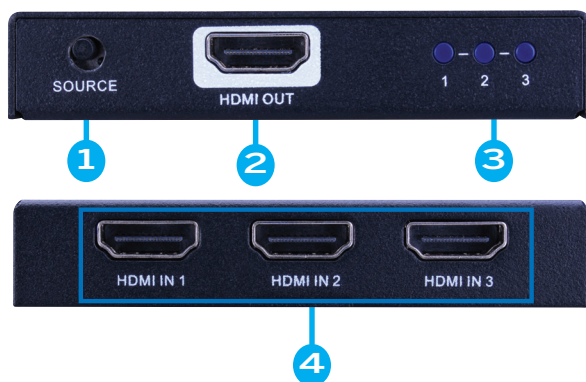
Bandwidth.....	18Gbps
Operation Temperature.....	-10 ~ +55 Degrees Celcius
Storage Temperature	-25 ~ +70 Degrees Celcius
Relative Humidity	10%-90%
Power consumption.....	5 Watts (max)
Operation temperature.....	32~104 °F
Storage temperature	-4 ~140 °F
Relative humidity	20~90 % RH (no condensation)

PACKAGE CONTENTS

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

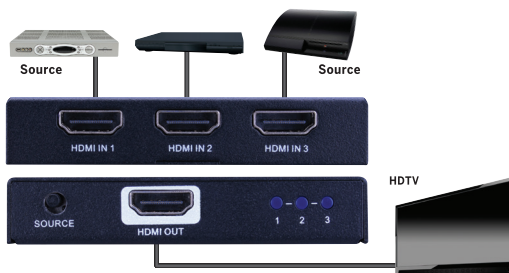
- HDSW4K31 Switch
- Velcro Tape
- Product Manual

PANEL DESCRIPTIONS



1. SOURCE: Press the button to switch to the next input
2. HDMI OUT: Type-A female HDMI output port to connect HDMI display
3. INPUT LED: The LED illuminates blue when there is HDMI input on the corresponding channel
4. HDMI IN 1~3: Three type-A female HDMI input ports to connect HDMI sources

CONNECT AND OPERATE



1. Connect your sources (bluray player, cable box, computer, etc.) into the HDMI INPUTS using a known working HDMI cable
2. Connect your display (TV, monitor, projector, etc.) into the HDMI OUTPUT using a known working HDMI cable
3. Turn on your display and sources and test

NOTE: For CEC control, please refer to your display and product manuals on how to enable this functionality

TROUBLE-SHOOTING

Problems	Potential Causes	Solutions
Losing color or no video signal output in HDMI display	The connecting cables may not be connected correctly or it may be broken	Check whether the cables are connected correctly and in working condition
	The display is not compatible with the present output resolution	Make sure the resolution of the display(s) is compatible with the present resolution
No HDMI signal output while local HDMI input is in normal working state	The connecting cables may not be connected correctly or it may be broken	Check whether the cables are connected correctly and in working condition
Splash screen in output devices	Poor quality of the connecting cable	Change for another cable of good quality

SAFETY AND NOTICE

The HDSW4K31 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the HD4KCLK 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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