

8K HDMI® 2x2 Switching Splitter



**Vanco Part Number:
EVSP8K22**

**8K HDMI® 2x2
Switching Splitter**

EVOLUTION
BY 
ADVANCING DIGITAL CONNECTIVITY

www.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.

INTRODUCTION

The Evolution by Vanco EVSP8K22 HDMI Splitter with 8K HDR pass-through, splits one source at a time to two displays. With two HDMI inputs, two 8K sources can be switched and split at the same time. Supports video resolutions up to 8K@60Hz and 4K@120Hz over 4 channels of 10Gbps FRL for 40Gbps bandwidth. Features advanced EDID management and automatically adjusts for EQ based on the HDMI cables connected. Includes an IR remote for control with the option of front panel switching. Able to be used either as a splitter or a switcher, and is a great solution for gaming, video conferencing, education, and more!

*NOTE – To maintain 8K resolution, both displays must have 8K resolution capability as the splitter does not downscale on individual outputs.

8K HDMI 2x2 Switching Splitter

Part # EVSP8K22

- Transmits audio and video from one of 2 HDMI inputs to 2 HDMI outputs, up to 8K resolution, without any loss of quality or resolution
- Supports video resolutions up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
- Supports HDR, HDR10, HDR10+, Dolby Vision, HLG pass through
- VRR, FVA, ALLM supported
- HDMI 2.1 and HDCP 2.3 compliant
- 40Gbps video bandwidth
- HDMI audio formats include LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- Built-in Equalizer with advanced manual EDID management
- Controllable via included IR remote and/or front panel switching
- Compact design for easy and flexible installation
- Dimensions: 5.7" W x 2.6" D x .6" H (145mm x 68mm x 17mm)

PACKAGE CONTENTS

- EVSP8K22 2x2 HDMI Switching Splitter
- IR Remote
- 5V/2A Power Adapter
- Product Manual

SPECIFICATIONS

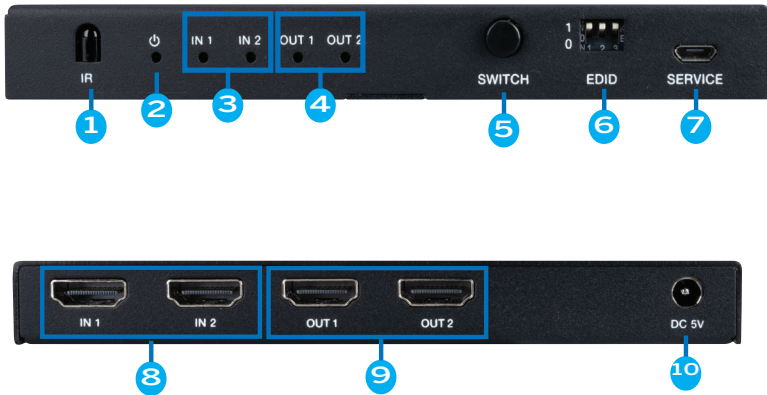
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3 (backwards compatible)
Video Bandwidth.....	40Gbps
Video Resolutions (MAX)	Up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
Color Depth.....	8/10/12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
Audio Formats.....	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Input	2×HDMI IN [Type A, 19-pin female]
Output.....	2×HDMI OUT [Type A, 19-pin female]
Control	Manual button, IR
Housing	Metal Enclosure
Color	Black
Dimensions	5.7" W x 2.6" D x 0.6" H (145mm x 68mm x 17mm)
Weight	0.6 lbs (265g)
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified)
Power Consumption	6.15 W (Max)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

Recommended HDMI Cable

Video Resolution	HDMI Cable Type	HDMI Cable Length (HDMI IN / OUT)
8K	Ultra HDMI 2.1	3m/10ft
4K@60Hz	HDMI 2.0	8m/12ft
4K@24Hz	HDMI 1.4	12m/39ft
1080P	HDMI 1.4	15m/49ft

The use of Premium Ultra High Speed and Premium High Speed cables are highly recommended.

PANEL DESCRIPTIONS



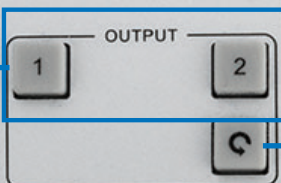
1. IR WINDOW: Receives IR commands from included IR remote (ensure this is visible when trying to control with the IR remote)
2. POWER LED: Emits GREEN when unit is powered on; Emits RED when unit is in standby mode
3. IN LED (1~2): Status displaying which source is selected for signal output
4. OUT LED (1~2): When the HDMI OUT 1/2 port connects a display device and outputs signal, the corresponding green LED will be on
5. SWITCH: Used to select signal source. Pressing this button will allow the device to switch any of the two HDMI input signals and distribute it to two displays simultaneously
6. EDID DIP SWITCH: Use the DIP switch to set EDID. See the EDID section for additional information
7. SERVICE: Firmware update port
8. IN (1~2) port: Connect HDMI sources
9. OUT (1~2) port: Connect HDMI displays (Note: Ensure both displays connected are capable of the expected resolution, as a lower resolution display will cause both outputs to output that lower resolution signal)
10. DC 5V: Connect the included DC 5V/2A Power Supply

IR REMOTE

Power on the product or
set it to standby mode



Press the 1 or 2 button to
select which input will be
viewed from the outputs



Press this button to toggle
between IN 1 and IN 2

CONNECTION DIAGRAM



CONNECT AND OPERATE

1. Connect sources such as a Blu-Ray Player, game console, A/V Receiver, Cable or Satellite Receiver, etc. on the unit with HDMI cable(s). Insert and extract cables carefully with the power switched off. Connecting and disconnecting while the unit is powered can result in damage to circuitry.
2. Connect the HDMI outputs to the displays
3. Connect the provided DC 5V/2A power supply
4. Connect the power supply to an available electrical outlet and power on the device

EDID

EDID can be managed by using the dip switches on the units in different configurations. See the chart below for how each configuration can be used to get the desired signal output that is needed and wanted.

NOTE: Make sure the power is removed whenever you are changing EDID settings.



Factory Default- Copy OUTPUT 1 EDID



1080P@60Hz, 2CH PCM



4K@60Hz, 4:4:4, 2CH PCM, HDR



4K@60Hz, 4:4:4, 5.1CH PCM/DTS/DOLBY, HDR



4K@60Hz, 4:4:4, 7.1CH PCM/DTS/DOLBY, HDR



8K@60Hz 4:2:0/8K@30Hz 4:4:4/4K@120Hz 4:4:4
2CH PCM, HDR



8K@60Hz 4:2:0/8K@30Hz 4:4:4/4K@120Hz 4:4:4
5.1CH PCM/DTS/DOLBY, HDR



8K@60Hz 4:2:0/8K@30Hz 4:4:4/4K@120Hz 4:4:4
7.1CH PCM/DTS/DOLBY, HDR

SAFETY AND NOTICE

The EVSP8K22 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the EVSP8K22 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.

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, etc. please visit www.vanco1.com

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.



Vanco[®] International

506 Kingsland Drive
Batavia, Illinois 60510

call: 800.626.6445

fax: 630.879.9189

visit: www.vanco1.com