

4K HDMI® SPLITTERS



4K HDMI® Splitters

Part Numbers:

EVSP4K12 1x2

EVSP4K14 1x4

EVOLUTION
BY  **VANCO**
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 EVSP4K12/EVSP4K14 Splitters are advanced solutions for splitting a single HDMI input to multiple HDMI outputs. They provides high performance audio and video output up to 4K2K@60Hz 4:4:4 resolution and are capable of receiving and transmitting up to 18Gbps of bandwidth with no data loss. These splitters are fully compliant with HDCP 2.2 sources and support the latest features so you can be assured of reliable and high quality HDMI distribution.

1x2 HDMI® 4K Spiltter

Part # EVSP4K12

- Transmits audio and video from a single source to 2 HDMI outputs up to 4K2K (2160p) Ultra High Definition resolution without any loss of quality or resolution
- Supports video formats up to 4K2K@60Hz with 12bit YCBCR 4:4:4 and HDR
- 3D frame sequential video format up to 1080p@60
- Supports high resolution VESA mode video format up to QSXGA 2560x2048@60Hz
- Compliant with HDCP 2.2 sources and backwards compatible with older versions of HDCP
- Dynamic and Manual EDID management modes to ensure compatibility during installation
- Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- Supports Hot-plug
- High bandwidth: 18 Gbps
- Features status indicator for connection & input HDCP compliance
- Can be cascaded with other Evolution by Vanco products to create additional output options or to create an expanded distribution system
- Dimensions: 4" W x .7" H x 2.3" D

PACKAGE CONTENTS

- EVSP4K12 4K HDMI 1x2 Splitter
- 1 DC 5V Power Supply
- Product Manual

1x4 HDMI® 4K Splitter

Part # EVSP4K14

- Transmits audio and video from a single source to 4 HDMI outputs up to 4K2K (2160p) Ultra High Definition resolution without any loss of quality or resolution
- Supports video formats up to 4K2K@60Hz with 12bit YCBCR 4:4:4 and HDR
- 3D frame sequential video format up to 1080p@60
- Supports high resolution VESA mode video format up to GSXGA 2560x2048@60Hz
- Compliant with HDCP 2.2 sources and backwards compatible with older versions of HDCP
- Dynamic and Manual EDID management modes to ensure compatibility during installation
- Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- Supports Hot-plug
- High bandwidth: 18 Gbps
- Features status indicator for connection & input HDCP compliance
- Can be cascaded with other Evolution by Vanco products to create additional output options or to create an expanded distribution system
- Dimensions: 6.4" W x .6" H x 2.5" D

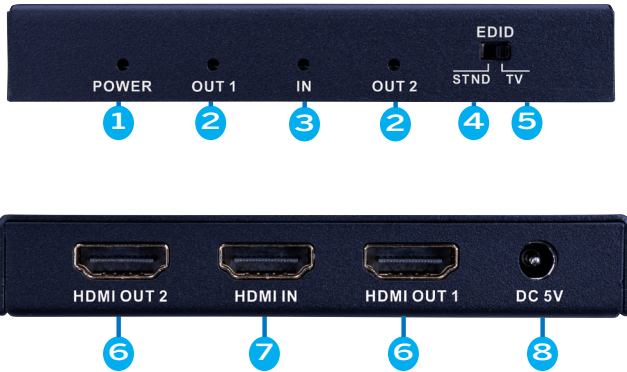
PACKAGE CONTENTS

- EVSP4K14 4K HDMI 1x4 Splitter
- 1 DC 5V Power Supply
- Product Manual

SPECIFICATIONS

Video Bandwidth	600MHz/18Gbps
Input Ports	1 × HDMI (Female type)
Output Ports	2 or 4 × HDMI (Female type),
Output Resolution	480i ~1080p50/60, 4K2K@24/30, 4K2K@60Hz, VESA Formats up to GSXGA 2560x2048@60H
ESD Protection	Human Body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
Power Supply	5V/2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions	63 mm (W) × 163 mm (D) × 16 mm (H)
Weight	275 g
Chassis Material.....	Metal
Operating 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)
Power Consumption (Max)	10W

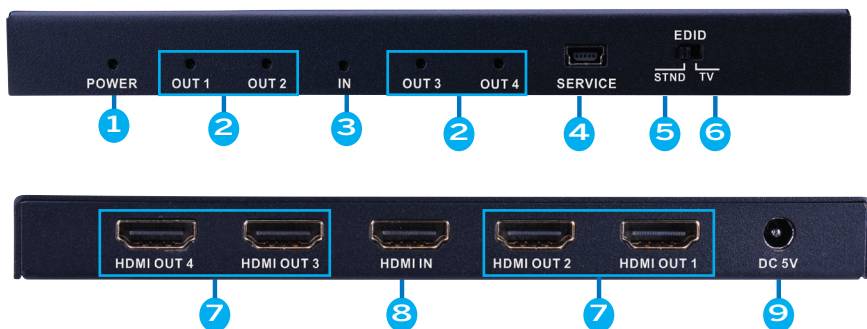
PANEL DESCRIPTIONS EVSP4K12



1. Power LED: This blue LED illuminates when the device is connected with power supply.
2. Out LED: These blue LEDs will light up to indicate which HDMI outputs are connected to an active TV/ display/monitor.
3. In LED: This blue LED illuminates when the Source connected to the device.
4. EDID STND: When in 'STND' mode, the unit will use its own built-in EDID settings. In this mode, the EDID will default to 1080p@60Hz and LPCM 2CH Stereo audio. Use this mode if there are display problems in TV Mode.
5. EDID TV: When in 'TV' mode, the unit will read the EDID settings of the display device connected to HDMI OUT 1. If it detects a 4K2K capable EDID setting it will transmit the signal in that format to all outputs. If no 4K2K capable EDID is detected, then the unit will output the best resolution that all displays can support.
6. HDMI Out: Connect each of the HDMI outputs to an extender or directly to a display for simultaneous HDMI distribution or to cascade the output into another unit to additional zones.
7. HDMI In: Connect the input port to the HDMI output of your source device such as a DVD player or set-top box with an HDMI cable.
8. DC 5V: Plug the 5V DC power supply into the unit and connected the adaptor to an AC outlet.

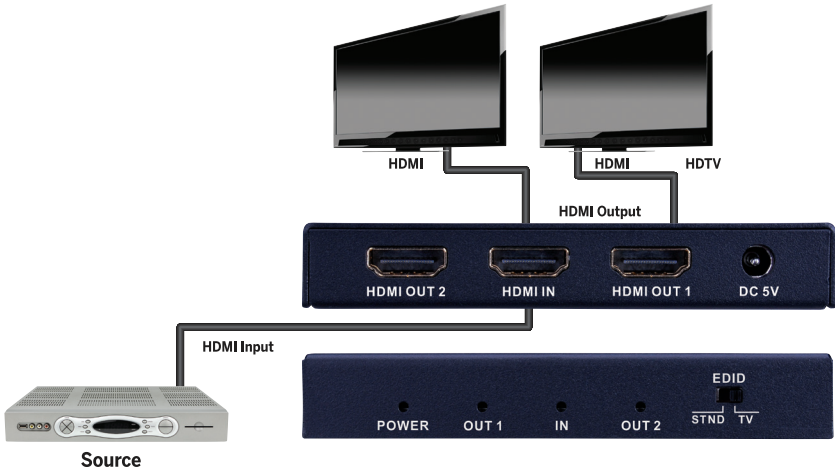
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4. Service: Manufacturer use only.
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CONNECTION DIAGRAM EVSP4K12



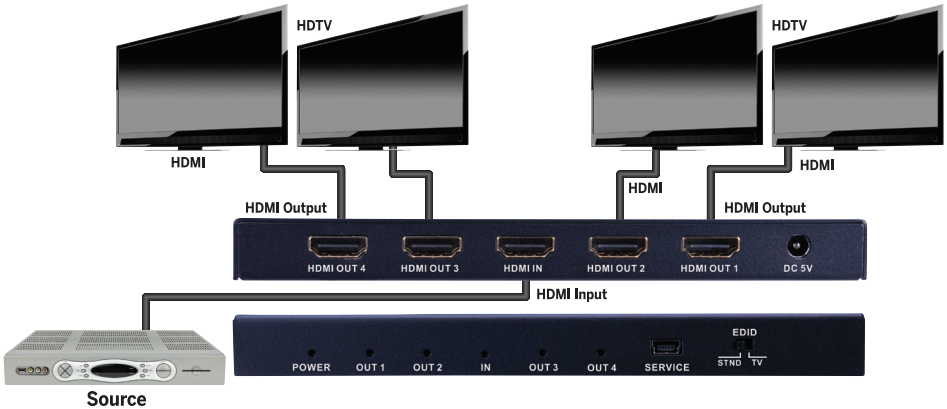
CONNECT AND OPERATE

1. Connect a HDMI/ DVI source device (e.g. Bluray Player, STB, etc.) to the HDMI INPUT socket of the 4K2K HDMI Splitter with quality HDMI cables.
2. Connect HDMI displays to the HDMI OUTPUT sockets of the 4K2K HDMI Splitter with quality HDMI cables. (Note: These products do support the use of HDMI extenders for extended cable runs)
3. Connect the provided DC 5V power adapter to the power port (Note: All the ports support hot-plug. It's important to know that hot plugging a display may result in splash screen at output ends.)

WHEN MAKING ANY EDID CHANGES, PLEASE REMOVE POWER, MAKE THE NECESSARY CHANGES THEN REINSERT POWER

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EVSP4K14



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TROUBLE-SHOOTING

Problems	Causes	Solutions
Color loss 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.
Static becomes stronger when connecting the video connectors	Bad grounding	Check the grounding and make sure it is connected well.

SAFETY AND NOTICE

These splitters have been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, these splitters 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.



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