

HDMI® 1x2 SPLITTER

Ultra Slim Design



Part Number:
EVSLIM12

HDMI® 1X2 ULTRA
SLIM SPLITTER

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 Evolution EVSLIM12 Ultra Slim Splitter sends audio and video from a single source to up to 2 HDMI outputs up to 4K2K (2160p) Ultra High Definition resolution without any loss of quality or resolution. The splitter is capable to switch input signal format according to the displays by utilizing automatic EDID management. These are able to be cascaded with other Evolution by Vanco products to create additional output options or to create an expanded distribution system. The Evolution Splitters offer the most convenient solution for splitting one source into multiple displays.

HDMI®1X2 ULTRA SLIM SPLITTER

Part # EVSLIM12

- 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 1080P, 3D & 4K Resolutions
- Transmission Range: 50 ft
- Supports automatic EDID management, automatically adopts the resolution of the first detected display from port 1 or 2
- Supports Hot-plug
- High bandwidth: 10.2Gbps
- HDCP 1.4 compliant
- Features status indicator for connection & input HDCP compliance
- Convenient online firmware update
- Can be cascaded with other Evolution by Vanco products to create additional output options or to create an expanded distribution system
- Dimensions: 3.9" W x .4" H x 2.8" D

SPECIFICATIONS

Input	1 HDMI
Input Connector	1 female type A HDMI 1.4
Output	2 HDMI
Output Connector	2 female type A HDMI 1.4
Min/ Max Signal Level	T.M.D.S. 2.9V~3.3V
Impedance	Differential 100Ω
Max data rate	10.2Gbit/s
Max Resolution	4Kx2K, 1080P 3D@60Hz
Max Pixel Clock	340MHz
Gain	0dB
HDCP	Compliant with HDCP1.4
EDID	In-built EDID management
Temperature	0~ 55 degrees C
Reference Humidity	10% ~ 90%
Power Consumption	2.5 W
Power	DC 5V 1A
Weight	0.08kg
Dimension (W*H*D)	3.9" W x .4" H x 2.8" D

Supported Input Video Formats

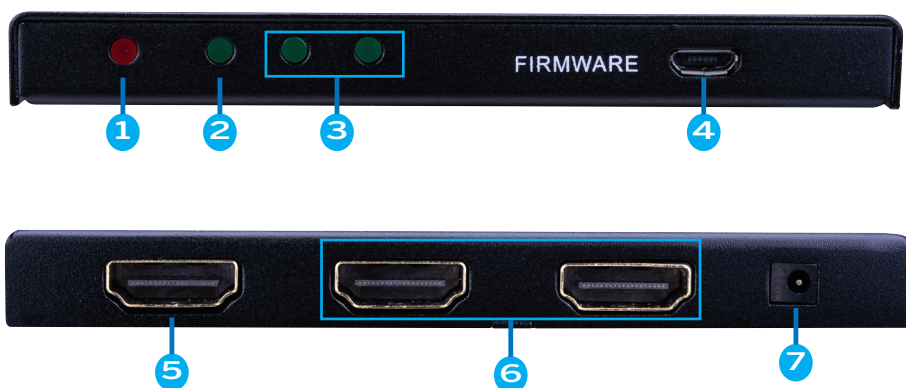
Input Resolution	HDMI	DVI
720 x 480@60Hz	X	X
720 x 480I@30Hz	X	X
720 x 576@50Hz	X	X
720 x 576I@25Hz	X	X
1280 x720@50Hz	X	X
1280 x720@60Hz	X	X
1920 x 1080@25Hz	X	X
1920 x 1080@50Hz	X	X
1920 x 1080@60Hz	X	X
1920 x 1080I@25Hz	X	X
1920 x 1080I@30Hz	X	X
3840 x 2160@25Hz	X	
3840 x 2160@30Hz	X	
1080P 3D@60Hz	X	

Note: 4K HDMI Splitter 1x2 supports 4k& 3D HDMI signals, please adopt quality HDMI cables compliant with HDMI1.4 for better transmission when connecting 4K or 3D sources.

PACKAGE CONTENTS

- 1x2 Ultra Slim Splitter EVSLIM12
- Mounting Ears and Screws
- 4 Plastic Cushions
- 5V/1A DC power supply
- Product Manual

PANEL DESCRIPTIONS



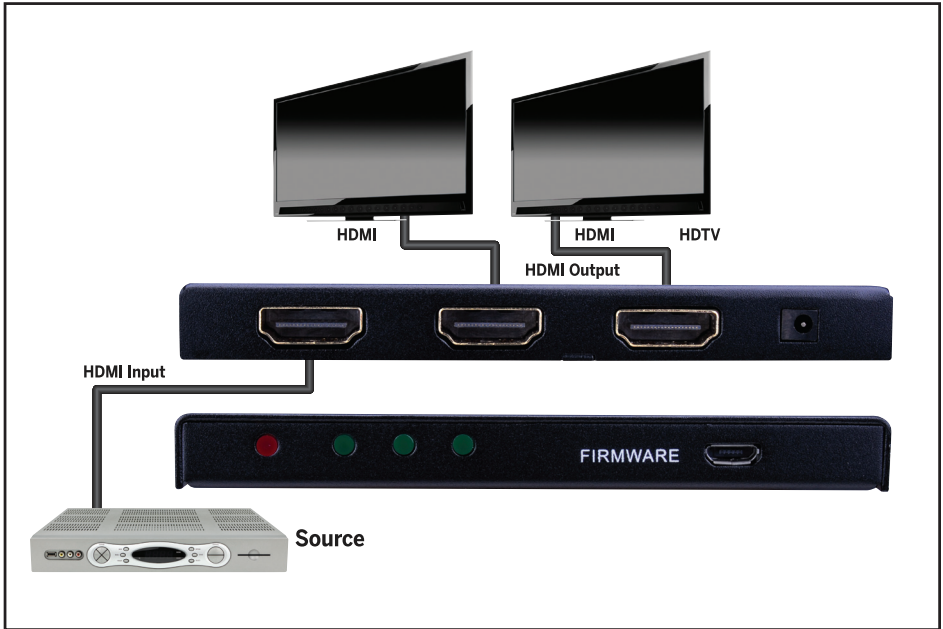
1. Power indicator: Illuminates red once powered on
2. Input HDCP compliant Indicator: Indicate the HDCP compliant status of the input signal
Illuminates green when the input signal carries HDCP
Blink green when the input signal is without HDCP
Remain off when there is no input signal
3. Output signal Indicators: Illuminates green when there is HDMI output, correspond to HDMI OUTPUT 1~2 separately

4. FIRMWARE: USB port, used for firmware update.

Note: Output HDCP compliant status depends on input signal. When the input signal is with HDCP, then output signal is with HDCP and vice versa.

5. IN: HDMI input port. connect with HDMI or DVI source device such as a STB or Blu-ray player
6. OUT: HDMI output ports, connect to HDMI displays to automatically capture the input resolution
7. DC 5V: Power socket, plug a DC 5V power adapter into this socket and tighten the screw.

CONNECTION DIAGRAM



CONNECT AND OPERATE

1. Connect a HDMI/ DVI source device (e.g. Blue-ray DVD) to the HDMI INPUT socket of 4K HDMI Splitter 1x2 with HDMI cable.
2. Connect HDMI displays to HDMI OUTPUT sockets of 4K HDMI Splitter 1x2 with HDMI cable.
3. Plug a DC 5V power adapter to the power port of 4K HDMI Splitter 1x2.

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.

EDID

EDID management helps the distribution and routing of signals from the source at the resolution of the first detected display (detecting from output 1~2).

For example: when output 1 connects with a 1080p display, 4K HDMI Splitter 1x2 will select 1080p as output resolution and distribute 1080p signal to displays connected to output 1~2.

Note: If the display connected to output 2 don't support 1080p signal, there will be no output on the display.

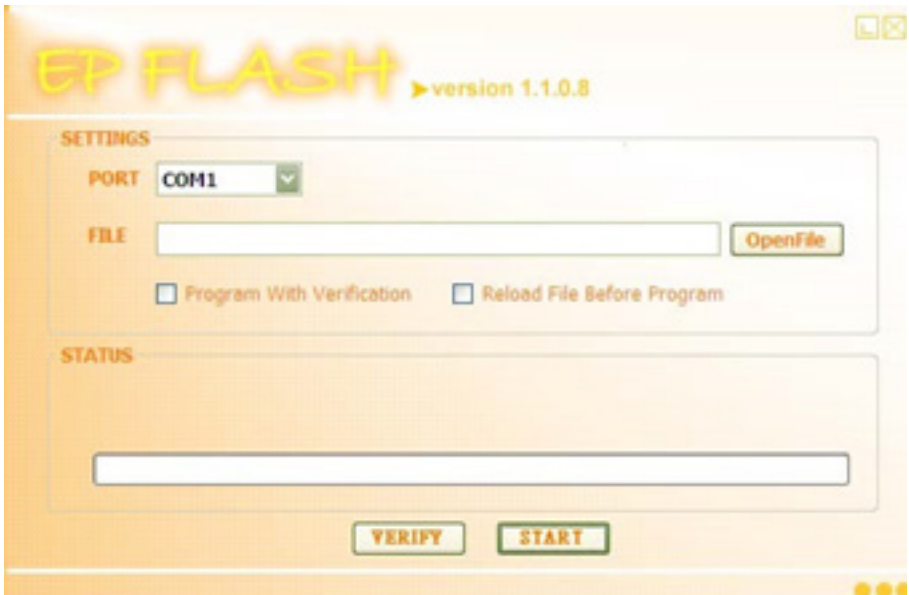
FIRMWARE UPGRADE

This product uses an USB port for online firmware upgrade. Follow these steps to upgrade firmware:

Step 1: Copy the latest upgrade file (.hex) to PC from the DOWNLOADS tab of the product page

Step 2: Connect the USB ports of the 4K HDMI Splitter 1x2 and the PC via USB cable.

Step 3: Launch the upgrade software by double-click the icon of EPFlash.exe, it will enter the upgrade interface shown as below:



Step 4: Select the right port number in the dropdown list of PORT, and click OpenFile to load the upgrade file. Click Start to start firmware upgrading.

TROUBLE-SHOOTING

1. **PROBLEM 1:** Color loss or no video signal output in HDMI display **CAUSE:** The connecting cables may not be connected correctly. **SOLUTION:** Check whether the cables are connected correctly and in working condition.
2. **PROBLEM 2:** Color loss or no video signal output in HDMI display **CAUSE:** The display is not compatible with the present output resolution. **SOLUTION:** Make sure the resolution of the display(s) is compatible with the present resolution.
3. **PROBLEM 3:** No HDMI signal output in EVSLIM12 while local HDMI input is in normal working state **CAUSE:** The connecting cables may not be connected correctly. **SOLUTION:** Check whether the cables are connected correctly and in working condition.
4. **PROBLEM 4:** Splash screen in output devices **CAUSE:** Poor quality of the connecting cable **SOLUTION:** Change for another cable of good quality.
5. **PROBLEM 5:** Static becomes stronger when connecting the video connectors. **CAUSE:** Bad grounding **SOLUTION:** Check the grounding and make sure it is connected well.

SAFETY AND NOTICE

This splitter has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, this splitter 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.

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

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.

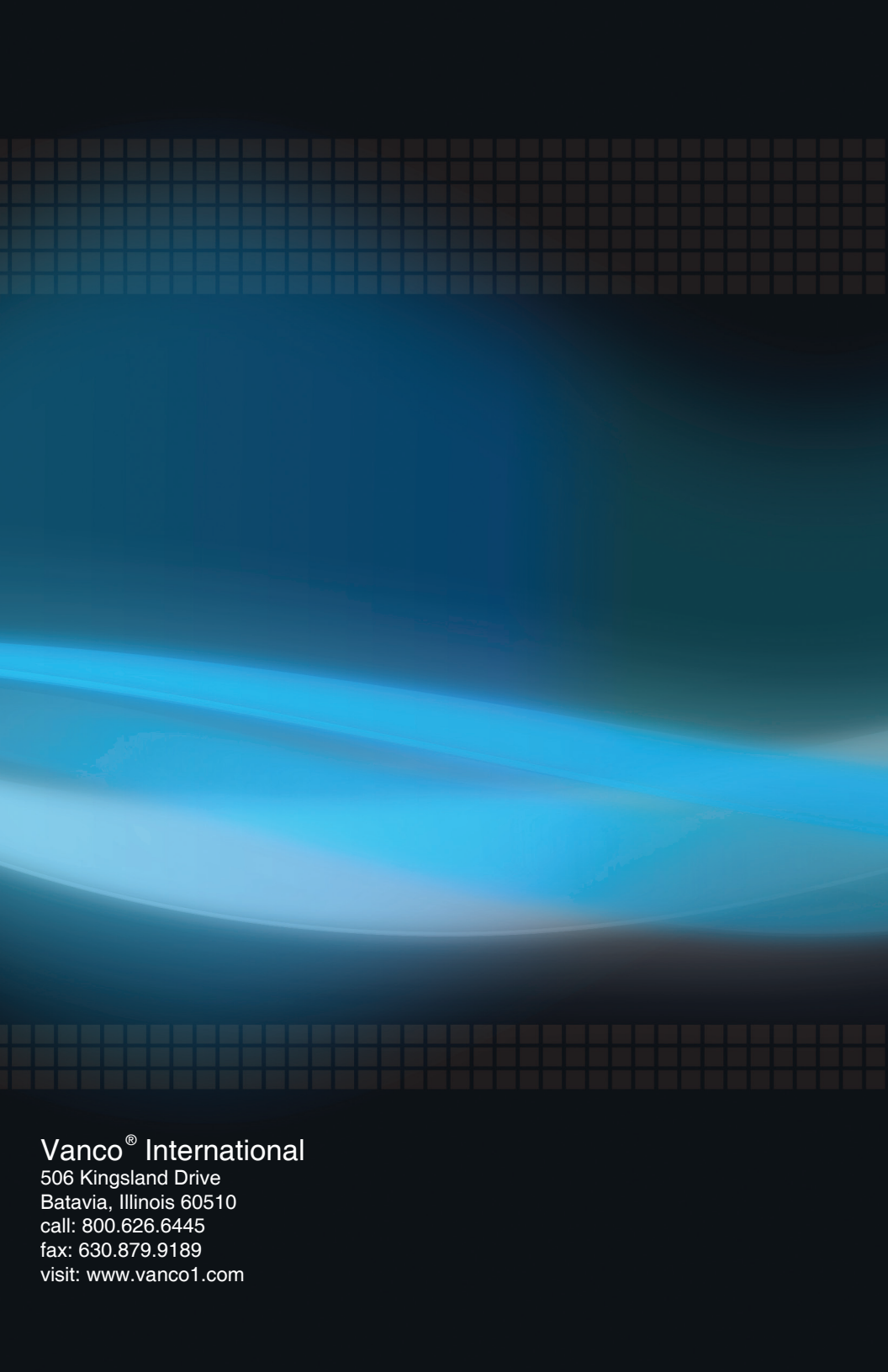
Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, 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.



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