EVO-IP HDMI® OVER IP

Transmitter/Receiver

Vanco Part Number
EVOIPLITE

HDMI over IP
Transmitter/Receiver

EVOLUTION
BY

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 EVOIPLITE HDMI over IP Transmitter/Receiver is a complete audio, video, and control product over ethernet system. As a whole, the system has the ability to send multiple sources to multiple displays along with IR and RS232 pass-through, analog and digital audio breakout in TX mode, video up to 1080P@60Hz, with POE up to 100m when connected to a POE enabled switch off of a single Cat6 cable. This one single unit can be set to transmit or receive signals. When connected to a network with internet, the EVO-IP Cloud allows for additional features such as scheduling events or maintenance, remote monitoring of a system including remote diagnostics and troubleshooting, as well as voice control capabilities with Alexa! With an IP-less installation option as well as any new sources/displays being discovered automatically within the system, the EVO-IP HDMI over IP system is the fast, easy, and cost effective solution for both residential and commercial installations.

HDMI over IP Transmitter/Receiver
Part # EVOIPLITE

- EVO-IP HDMI over IP unit that can be set to transmit or receive
- Compatible with EVO-IP Control Box (EVOIPCTL1) for setup and control
- Supports 1080p@60Hz
- EVO-IP system can support multiple transmitters and receivers
- Utilizes the same network, switch, and control box as other EVO-IP products (EVOIPTX1, EVOIPRX1)
- HDCP 1.4 Compliant
- POE or can be powered using provided power supply
- Manual dip switch configurable for a truly IP-Less installation
- Easy GUI automatically detects new devices in the system
- iOS and Android app available
- Customizable labels and names of sources and displays
- Setup through the GUI can be done without a computer even being on site
- Analog and Digital audio breakouts
- Dynamic EDID
- IR and RS232 Pass-through
- Supports Protocol: IP, TCP, UDP, RTP, IPv4, DHCP, HTTP, IGMP, ICMP, MULTICAST, UNICAST
- Bitstream rate of up to 15Mbps
- Latency: 720P (190-240ms), 1080P (380-430ms)
- Connects to the cloud to schedule events or to troubleshoot a situation remotely (opportunity for recurring revenue)
- Able to be controlled with Alexa for voice controlled switching
- Dimensions: 5.2" W x 0.8" H x 3.8" D

PACKAGE CONTENTS

- EVOIPLITE HDMI over IP Transmitter/Receiver
- (1) IR Transmitter
- (1) IR Receiver

- 5V 2A Power Supply
- Set of mounting ears/screws
- Product Manual

SPECIFICATIONS

HDMI Compliance .... HDMI

HDCP Compliance .... Yes

Video Bandwidth .... Single-link 225MHz [6.75Gbps}

Video Support .... Up to 1080p@60Hz

HDMI over UTP transmission [24-bit] .... Full HD (1080p)-100m(330ft) [CAT.X]

Audio Support .... Stereo Digital Audio

Input TMDS signal.. 1.2 Volts [peak-to-peak]

Input DDC signal .... 5 Volts [peak-to-peak, TTL]

ESD Protection .... [1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge]; [2] Core chipset — ±8kV

PCB Stack-up .... 4-layer board [impedance control — differential 100Ω; single 50Ω]

IR Pass-thru.. Yes (RX to TX)

RS-232 .... Yes

I/O Connector.. 2x HDMI + 1x RJ-45 + 3x 3.5mm + 1x TOSLink + 1x RS-232(terminal block)

HDMI Source Control .... Controllable via IR pass-through from RX to TX with IR extenders

IR Remote Control .... Electro-optical characteristics: ∏ = 25° / Carrier frequency: 20-60kHz

HDMI Connector .... Type A [19-pin female]

RJ45 Connector .... WE/SS 8P8C with 2 LED indicators

3.5mm Connector... IR blaster, IR Receiver, & Stereo out

Housing .... Metal enclosure

Dimension... 5.2" W x 0.8" H x 3.8" D

Weight .... 0.8 lbs

Fixedness... Wall-mounting case with screws

Power Supply 5V 2A

Power Consumption .... 6 Watts (max)

Operation Temperature.. 0~40°C [32~104°F]

Storage Temperature .... -20~60°C [-4~140°F]

Relative Humidity... 20~90% RH [no condensation]

PANEL DESCRIPTION

EVOIPLITE
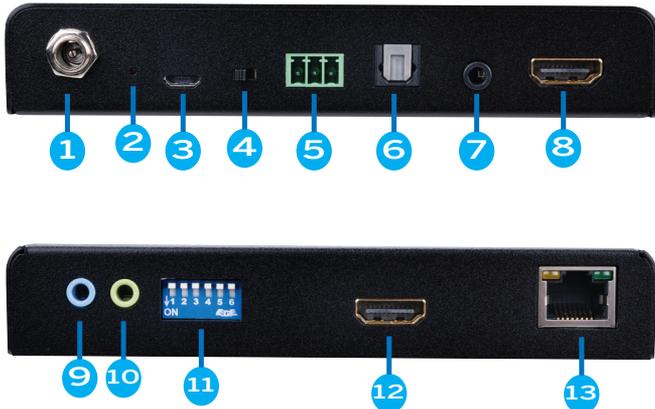
1. +5V DC: Connect to 5V DC power supply (optional)

2. LED Indicator: Power LED indicator

3. Micro USB: for F/W update

4. Receiver/Transmitter Selection: Sets unit as either a transmitter or receiver

[Left]: configures as a receiver

[Right]: configures as a transmitter

5. RS-232 (terminal block format): The order of RS-232 pin are TX, RX, GND (from the left to the right):

6. S/PDIF Output (Digital Optical Output) Will only output in TX mode only

7. Stereo Output (Analog 3.5mm Output) Will only output in TX mode only

8. HDMI IN: Connects to an HDMI source (with the unit set to Transmitter)

9. IR Blaster: IR 3.5mm port for plugging in the IR Transmitter (with the unit set to Transmitter)

10. IR Receiver: IR 3.5mm port for plugging in the IR receiver (with the unit set to Receiver)

11. Dip Switch: Provides each unit with an address from 1 to 63. By default, all are in the down position. This option to be utilized for an IP-less installation, with no source switching resulting in static signals.

NOTE: When addressing each unit using the dip switches, they cannot be addressed through the local or cloud GUI.

12. HDMI OUT: Connects to an HDMI display (with the unit set to Receiver)

13. RJ-45 Port: Connects to an approved ethernet switch, for a list of approved ethernet switches, please visit www.vanco1.com, under the "downloads and documents" section for EVOIPLITE. Cat6 cabling is highly recommended.

PANEL DESCRIPTION

EVOIPCTL (Control Box Sold Separtely)

1. 5V Power Port (necessary as this unit requires external power)

2. Status Indicator Light (lights up when communicating with the system)

3. Power Indicator Light (lights up when powered up by included power supply)

4. HDMI OUT (connect to local display to show system IP information)

5. RJ45 Port: Connects to an approved ethernet switch, for a list of approved ethernet switches, please visit www.vanco1.com, under the "downloads and documents" section for EVOIPLITE. Cat6 cabling is highly recommended.

6. USB ports (reserved for future use)

CONNECT AND OPERATE

Before connecting and setting up EVOIPLITE, please enable settings within your ethernet switch that will allow you get the best performance possible. For additional information on which switches are recommended by Vanco please visit the product page at ww.vanco1.com.
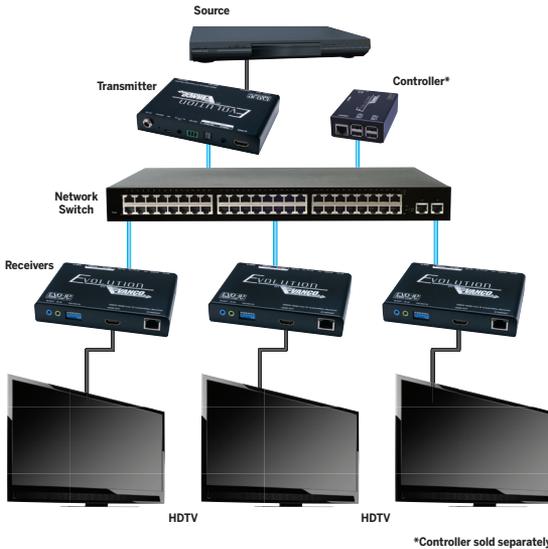
1. Set the EVOIPLITE unit(s) to function as a transmitter (source) or receiver (display)

2. Connect the EVOIPLITE unit(s) to the network switch with a well terminated Cat5e/6

3. Connect the EVOIPCTL1 to the same network switch

Note: EVOIPLITE is automatically setup to DHCP network settings. To set up any EVOIPLITE unit with a static IP, please refer to the Setup and Features Manual

4. Connect the HDMI output of the EVOIPCTL1 to a local display. This will provide you with the necessary network information to continue the setup

5. Connect power to the EVOIPCTL1 and turn on the ethernet switch. If your ethernet switch is not capable of POE (power over ethernet), connect the provided 5v power supplies to each EVOIPLITE unit.

6. Using a computer that is connected to the same network, type in www.evo-ip.local into a web browser to get to the GUI. You can also enter the GUI by typing the IP Address shown on the display connected to the HDMI output of the EVOIPCTL1, or by scanning the QR code found on the same screen using a phone, tablet, or computer connected to the same network.
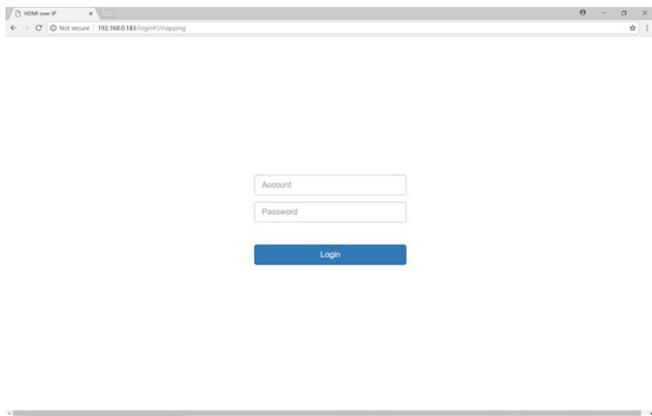
7. Type in the username and password for the system

Installer: Username and password is admin (full access to settings)

User: Username and password is user (limited access to settings)

8. Go to the SETUP tab to further customize the name and ID for each device

9.   Make sure that all changes and settings are saved and applied

10. Within the SETUP tab, make sure you back up your system by exporting the configuration file to your computer for future reference

WHEN USING EVOIPLITE & EVO-IP ON THE SAME NETWORK

EVOIPLITE can be on the same network with the EVOIPTX1 and EVOIPRX1 units, so that all EVO-IP products can be accessed under the same GUI. Perfect for any application that has a mix of displays that have different resolutions and requirements. Set up a video wall behind the bar with EVOIPTX1 and EVOIPRX1 connected, while 1080p displays surrounding the bar for source switching only with EVOIPLITE.

However EVOIPLITE source/display signals cannot be sent to 4K capable (EVOIPTX1/EVOIPRX1) units, for example, a cable box connected to an EVOIPLITE (set as Transmitter) cannot be sent to a display connected to an EVOIPRX1. Furthermore, a 4K Bluray player connected to an EVOIPTX1 cannot be sent to a 1080p display connected to EVOIPLITE (set as Receiver).

EVOIPLITE devices are clearly labeled within the matrix and setup mode to ensure they are not confused with other models. While EVOIPLITE can be combined with EVPOIPTX1/EVOIPRX1 devices on the same network, they cannot mix sources and displays. The reason for this is the expanded features the EVOIPTX1/EVOIPRX1 have such as Video Wall and OSD (On Screen Display) modes.

SAFETY AND NOTICE

The EVOIPLITE has been tested for conformance to safety regulations and requirements, and has been certified for EVOIPLITE 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.

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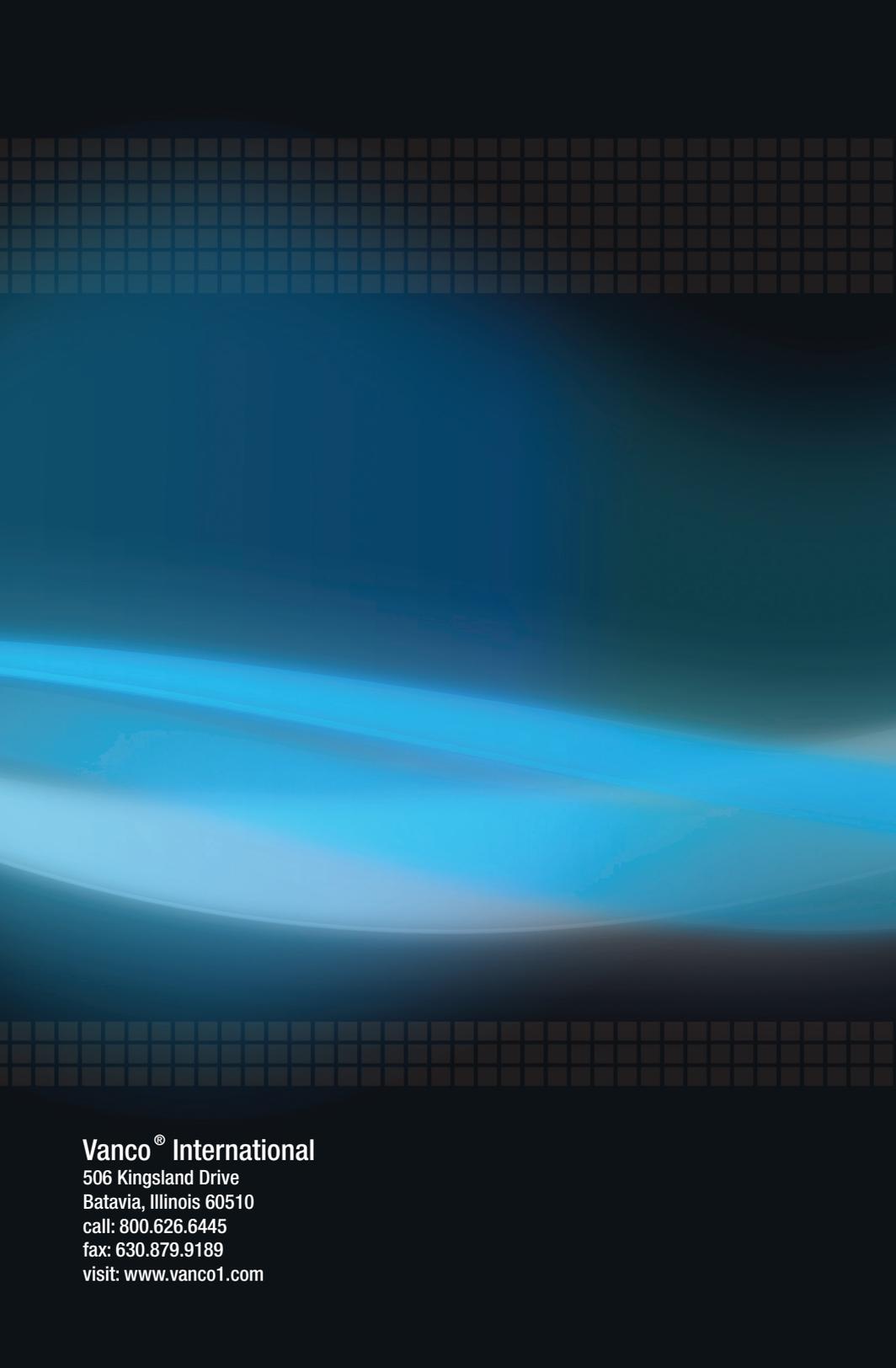
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