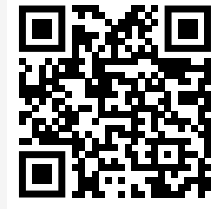


⚠ Safety Instructions

For optimum performance and safety, please read these instructions carefully before use and keep this guide for future reference. Please have the part number, serial number, and invoice available when requesting support.

- To prevent an electrical shock, please ensure all devices are properly grounded.
- Place the device in a well-ventilated area and do not block any ventilation openings.
- Do not expose or place the device near water - liquid may cause a failure, fire, or electrical shock.
- Do not place the device on an uneven or unstable surface - a fall may result in a malfunction.
- Never insert anything metallic into the device - this may cause an electrical shock.
- If a third-party power supply is used, please ensure it meets the requirements of this device.



Manual & Resources

Visit www.vanco1.com/evo-ip-2 for the latest version of this document and other resources.

Description

EVO-IP 2.0 redefines AV over IP distribution with unmatched flexibility, scalability, and ease of deployment. Featuring 4K@60Hz, 4:4:4 chroma with HDR and HDCP 2.2, independently routable KVM, audio, and control signals, and VLAN-free setup, this solution streamlines installation for integrators in a wide range of applications. EVO-IP 2.0 supports Cat6/6A, multi-mode, and single-mode fiber transmission, making it ideal for SMBs to enterprise environments. Cloud-based management enables remote monitoring and troubleshooting, reducing downtime. With Dante AV-A enabled out of the box, support for USB 2.0, eARC/ARC, Dolby/DTS downmixing and videowall/digital signage capabilities, EVO-IP 2.0 is the ultimate networked AV distribution solution for both residential and commercial applications.



EVOIPCTL2 Controller

Controls when, where, and how audio, video and control signals are distributed.



EVOIPTX2 Transmitter

Encodes audio, video, control, and USB signals to a network for distribution.



EVOIPRX2 Receiver

Decodes audio, video, control, and USB signals from a network for distribution.

Key features:

- 4K@60Hz inputs and outputs with HDR and Dolby Vision
- Upscale to 4K@60Hz or downscale to 720p
- Dante AV-A enabled for additional AV integration
- Dolby & DTS 5.1 audio downmixing to PCM/stereo output
- Analog audio embedding and de-embedding
- eARC/ARC support with S/PDIF ARC back-up plan
- Up to 328ft/100m transmission over Cat6 with PoE
- Up to 984ft/300m transmission over multi-mode fiber
- Independent audio, video, and control routing
- IP control with IR, RS-232, and CEC routing and pass-through
- Matrix mode displays individual sources on separate screens
- OSD mode supports custom graphics and digital signage
- Video Wall mode supports up to 25 displays in any configuration
- Local and cloud interface for scheduling, troubleshooting, and updating

Box Contents



EVOIPCTL2 Controller

- (1) Controller unit
- (1) IR receiver cable
- (1) 3-pin Phoenix connectors
- (1) 6-pin Phoenix connectors
- (2) Mounting brackets
- (4) Screws
- (1) 12V/1A locking power supply
- (1) Quick start guide



EVOIPTX2 Transmitter

- (1) Transmitter unit
- (1) IR receiver cable
- (1) IR transmitter cable
- (3) 3-pin Phoenix connectors
- (2) 4-pin Phoenix connectors
- (2) Mounting brackets
- (4) Screws
- (1) 12V/2.5A locking power supply
- (1) Quick start guide



EVOIPRX2 Receiver

- (1) Receiver unit
- (1) IR receiver cable
- (1) IR transmitter cable
- (3) 3-pin Phoenix connectors
- (2) 4-pin Phoenix connectors
- (2) Mounting brackets
- (4) Screws
- (1) 12V/2.5A locking power supply
- (1) Quick start guide

Specifications

Vanco International LLC reserves the right to change the specifications, features, and/or appearance of this product at any time without notice. Visit www.vanco1.com/evo-ip-2 for the latest versions of the manual and other resources.

EVOIPCTL2 Controller		
Network Bandwidth	100Mbps	
Transmission Distance	328ft/100m over Cat5e/6/6A/7	
Control Ports	(2) LAN (video LAN supports PoE)	
	(1) IR in	
	(1) Digital I/O 6-pin Phoenix connector (4 ch. digital I/O, 1 ch. grounding, and 1 ch. power)	
	(1) RS-232 3-pin Phoenix connector	
Dimensions	204mm (w) × 98.5mm (d) × 21.5mm (h)	8.03in (w) × 3.88in (d) × 0.85in (h)
Weight	509g (18oz)	
Housing	Metal	
Power Supply	12V/1A	
Power Consumption	4.5W	
Operating Temperature	32°F ~ 104°F	0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F	-20°C ~ 60°C
Relative Humidity	20~90% RH (non-condensing)	

EVOIPTX2 Transmitter & EVOIPRX2 Receiver			
HDMI Version	2.0b		
HDCP	2.2		
Video Bandwidth	18Gbps		
Network Bandwidth	1G		
Video Resolution	Up to 4K@60Hz, 4:4:4 with HDR		
Color Depth	Input	8/10/12-bit	
	Output	8-bit	
Color Space	RGB 4:4:4, YCbCr 4:4:4 / 4:2:2 / 4:2:0		
HDMI Audio Formats	LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master		
Receiver Downmixing	Dolby Digital and DTS 5.1 to 2CH PCM		
Transmission Distance	Cat5e/6/6A/7	328ft/100m	
	Multi-mode fiber	984ft/300m	
	Single-mode fiber	3.72mi/6km	
IR Voltage	12V or 5V		
IR Frequency	Wideband 20KHz-60KHz		
ESD Protection	Air-gap discharge	IEC 61000-4-2: ±8kV	
	Contact discharge	±4kV	
Transmitter Ports	Input	(1) HDMI, (1) L/R audio 3-pin Phoenix connector	
	Output	(1) HDMI, (1) L/R audio 3-pin Phoenix connector, (1) S/PDIF optical, (1) RJ45 Cat6/6a, and (1) SFP	
	Control	(1) RS-232 3-pin Phoenix connector, (1) PoE LAN, (1) fiber optical slot, (1) USB-B 2.0 host, (2) USB-A 2.0 device ports, (2) relays / (2) digital inputs/ outputs (4-pin Phoenix connector), (1) IR in, and (1) IR out	
Receiver Ports	Input	(1) S/PDIF optical, (1) L/R audio 3-pin Phoenix connector, (1) RJ45 Cat6/6a, and (1) SFP	
	Output	(1) HDMI, (1) L/R audio 3-pin Phoenix connector	
	Control	(1) RS-232 3-pin Phoenix connector, (1) PoE LAN, (1) fiber optical slot, (2) USB-A 2.0 device ports, (2) USB-A 1.1 device ports, (2) relays / (2) digital inputs/outputs (4-pin Phoenix connector), (1) IR in, and (1) IR out	
Housing	Metal		
Dimensions	Transmitter & Receiver	204mm (w) x 136mm (d) x 25.5mm (h)	8.03in (w) x 5.35in (d) x 1.00in (h)
Weight	Transmitter: 631g (22.2oz)	Receiver: 626g (22oz)	
Power Supply	12V/2.5A CE / FCC / UL Certified		
Power Consumption	Transmitter: 8.52W	Receiver: 7.08W (max)	
Operating Temperature	32°F ~ 104°F	0°C ~ 40°C	
Storage Temperature	-4°F ~ 140°F	-20°C ~ 60°C	
Relative Humidity	20 ~ 90% RH (no condensing)		

Vanco International LLC provides a 10-year limited warranty for any defect in workmanship or materials under normal use from the date of purchase to the original owner. Please refer to the warranty page at www.vanco1.com for more details.



Connection Diagram

Before setting up the EVO-IP system, please enable settings with your ethernet switch that will allow you get the best performance possible. For information on which ethernet switches are compatible, please visit the product page at www.vanco1.com.

1. Connect the EVOIPTX2 transmitters and EVOIPRX2 receivers to a network switch with a well terminated Cat5e/6 cable. Ensure there is 1 transmitter for every source/input and 1 receiver for every display/output in the system. If using a PoE managed switch, no external power supply is needed.

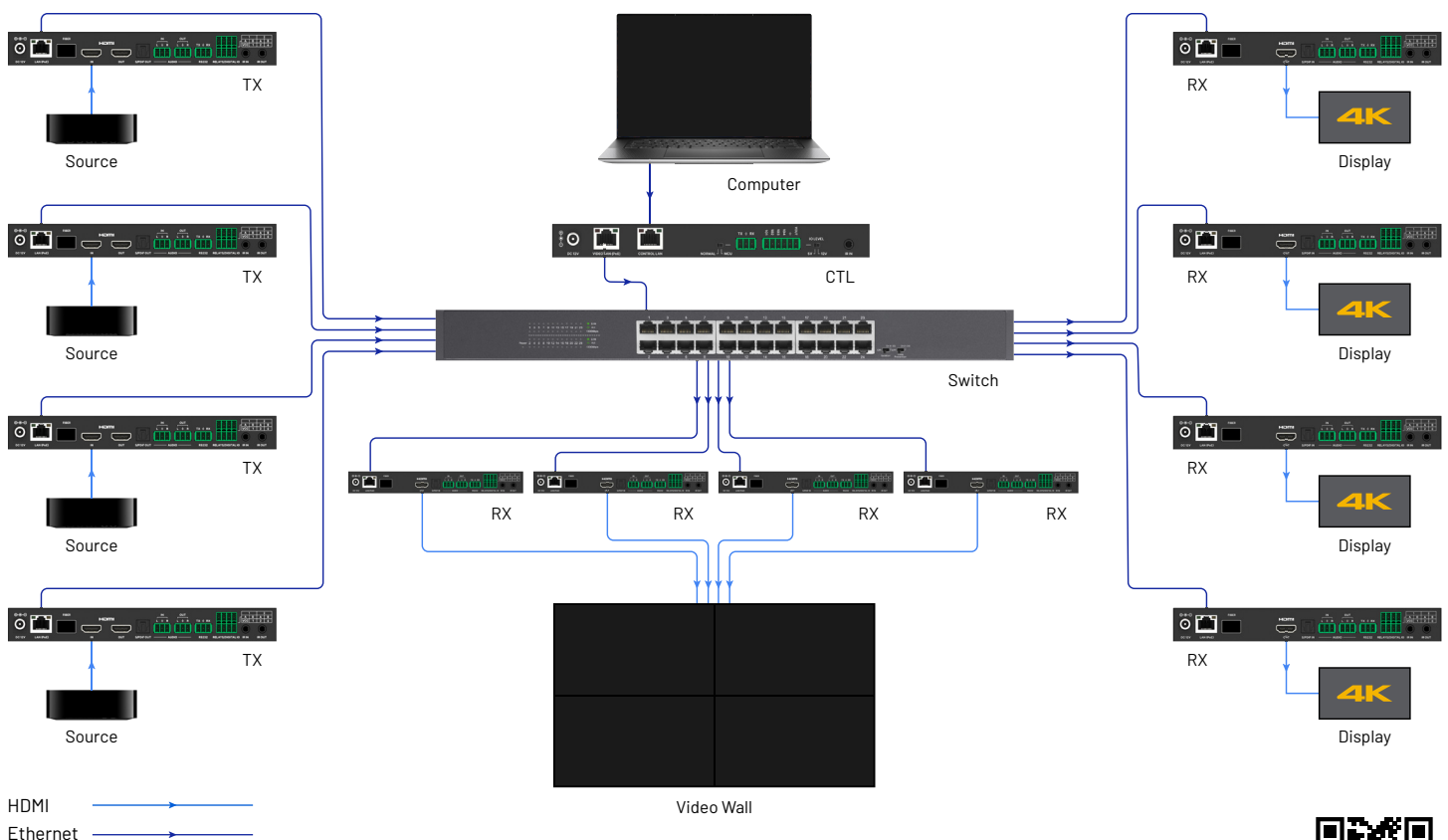
Vanco recommends a Cat6 cable for 4K applications and one of the compatible ethernet switches on the product page.

2. Connect the VIDEO LAN port of the EVOIPCTL2 controller to the same ethernet switch as the transmitters and receivers. Connect the CONTROL LAN port to an external network, control system, or computer. If the VIDEO LAN port is connected to a PoE managed switch, no external power supply is needed.

3. If no PoE is being used, connect the provided power supplies to the control box, transmitters, and receivers for power.

It may take up to 3 minutes for the devices to successfully and completely boot up.

4. With a computer connected to the CONTROL LAN port or the network associated with the CONTROL LAN port, type `evo-ip.local` into your browser to access with user interface and setup the system.



Note: Vanco International LLC reserves the right to change the specifications, features, and/or appearance of this product at any time without notice. Visit www.vanco1.com/evo-ip-2 for the latest versions of this document and other resources.



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