SAVANT

Savant® IP Video Single Input Transmitter 4K UHD with Control (PAV-VIM1CP2)
Quick Reference Guide

Box Contents

(1) Single Video IP Transmitter (PAV-VIM1CP2-xx)

(1) Installation kit (075-0210-xx)

  (1) Power Adapter with International Clips (025-0195-xx)

    (1) International Clips (CN, US, UK, EU & AUS)

  (2) Mounting Brackets (071-1093-xx)

  (4) M2.5 x 4mm screws (for mounting brackets) (039-0590-xx)

  (1) IR Emitter (4ft long) (064-0442-xx)

  (1) 3-pin RS232 Control Connector (028-0805-xx)

(1) Product Information and Regulatory Statement (009-1950-xx)

Specifications

Environmental	
Temperature	30° to 105° F (0° to 40° C)
Humidity	10% to 90% Relative Humidity (non-condensing)

Dimensions and Weights				
	Height	Width	Depth	Weight
Device	0.98 in (2.48cm)	6.3 in (16cm)	5.72 in (14.52cm)	1.35 lb (0.61 kg)
Shipping	3.63 in (9.22 cm)	15.5 in (39.37 cm)	8.5 in (21.59 cm)	2.65 lb (1.20 kg)

Power	
Power over Ethernet (PoE+)	IEEE 802.3at
Input Power	12V 2A DC
Power Consumption	16 W

Compliance			
Safety and Emissions	FCC Part 15	CE	C-Tick
RoHS	Compliant		

Supported Releases	
Software Release	da Vinci 9.4 and higher

Supported Audio and Video Formats

Audio	
Supported Formats	Pass-though of all HDMI 2.0 audio formats are supported.

Video			
HDR	Supported		
Supported Formats	$640x480^5$ $720x480^6$ $720x576^4$ $800x600^5$ $1024x768^5$ $1280x720^4$ $1280x720^5$	$1280x1024^5$ $1920x1080^1$ $1920x1080^3$ $1920x1080^4$ $1920x1080^5$ $1920x1200^5$ $3840x2160^1$	$3840x2160^2$ $3840x2160^3$ $3840x2160^4$ $3840x2160^5$ $4096x2160^3$ $4096x2160^5$

1 = at 24 Hz	3 = at 30 Hz	5 = at 60 Hz
2 = at 25 Hz	4 = at 50 Hz	

Required Components

– Savant IP Video Receiver

– Savant System Host

– Savant qualified 10G Managed Network Switch

– Savant User Interface

– Savant Development Environment (SDE)

Front Panel

(A)	Power LED	**Off** - Device is off. No power applied. **Blue** - Main board is powered
(B)	Video LED	**Off** - No video signal detected. **Blue** - Video signal detected.
(C)	LinkTX LED	**Off** - No valid connection **Blue** - Valid link **Blinking** - Sending Ethernet Data
(D)	LinkRX LED	**Off** - No valid connection **Blue** - Valid link **Blinking** - Receiving Ethernet
(E)	Status	**Blue** - Reset button is pressed when the device is powered on **Blinking** - Reset button has been released or the device was powered on without holding the reset button
(F)	P1	Reserved for future use.
(G)	Reset	Hold down this button with a pointed stylus for 20 seconds while powering up the device to restore the device to factory default settings

Networking Guidelines

To ensure that the IP Address will not change due to a power outage, Savant recommends using DHCP reservation within the router. By using this method IP Addresses for all devices can be managed from a single UI, avoiding the need to access devices individually.

NOTE: IP video device requirements and how to manage IP addresses are available on the Savant Device Netwoking Guidelines on the **Savant Customer Community.**

Network Requirements

For more information, see the **Savant Device Networking Guidelines** on the **Savant Customer Community.**

Additional Information

Refer to the following documents located on the **Savant Customer Community** for additional information.

– Savant IP Video Deployment Guide (009-1977-xx)

– Savant IP Video Network Configuration Guide (009-1552-xx)

– Savant IP Audio Deployment Guide (009-1571-xx)

– Savant Device Networking Guidelines

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Rear Panel
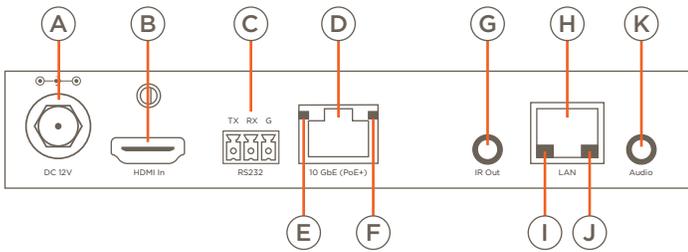
Item		Description
A	DC 12V	12V 2A DC
B	HDMI In	19-Pin Type A HDMI female digital audio/video input with locking connector. Supports HDMI 2.0a HDMI 2.0 complaint cable required for 4K content.
C	RS232	3-pin Control Connector. Transmits and receives serial data to and from serial controllable devices. For pin-out information, refer to the RS-232 Wiring section.
D	10GbE	RJ-45 port. 10G connection to the IP Video 10G switch. Supports Power over Ethernet (PoE+ IEEE 802.3at standard).
E	Link LED	**Solid Green** - Link is established with 2.5/5GBase-T mode. **Solid Amber** - Link is established with 10GBase-T mode. **Off** – No link established.
F	Link Activity LED	**Amber Blinking** - Indicates data activity. **Off** – No Activity
G	IR Out	3.5 mm IR Emitter connection. Transmits IR signals via an IR Flasher (5V tolerant) to devices with an IR input or IR receiver
H	LAN	1G of reserved network data bandwidth commonly used to connect any network compliant device to transmit its data onto the Ethernet network by sharing the 10G network link. 8-pin RJ-45 female connection. **IMPORTANT!**: Do not connect this port to a network switch.
I	Link LED	**Solid Green** - Link is established. **Off** – No link established
J	Link Activity LED	**Amber Blinking** - Indicates data activity. **Solid Amber** - Connected but there is no data activity. **Off** – No Activity.
K	Audio	3.5 mm (1/8 in) Analog Audio connection. For use information refer to the **Savant IP Video Deployment Guide** on the **Savant Customer Community.**

Wiring and Connections

IR Wiring
IR connection are made using 3.5 mm IR Emitter supplied with the device.
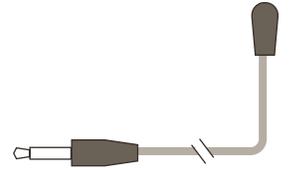
RS-232 Wiring
Serial control connection are made using a 3-pin Control Connector supplied with the device. The wire slips into the hole and locks with a screw located at the top of the connector.
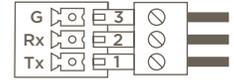

PIN 1	Transmit
PIN 2	Receive
PIN 3	Ground

10 GbE
RJ-45 10G Ethernet connection.

Transport Distance

|	
Cat6	100ft (30m)
Cat6a	300ft (100m)
Cat7	300ft (100m)

Installation
To install the PAV-VIM1CP2 use the mounting screws to attach the included mounting brackets. Please follow the steps below.
1. Align the bracket using the top holes.
   NOTE: This will leave an air gap behind the device.
2. Use mounting screws to attaching the bracket.
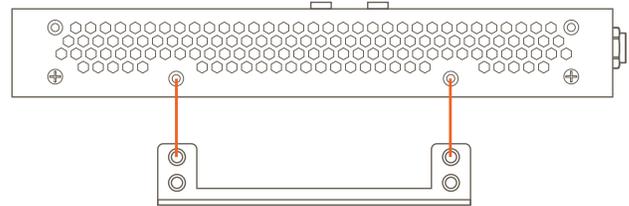
If the device is going to be mounted vertically Savant recommends aligning the device with the rear of the device facing down. This will allow the best heat dissipation.

Rear Panel
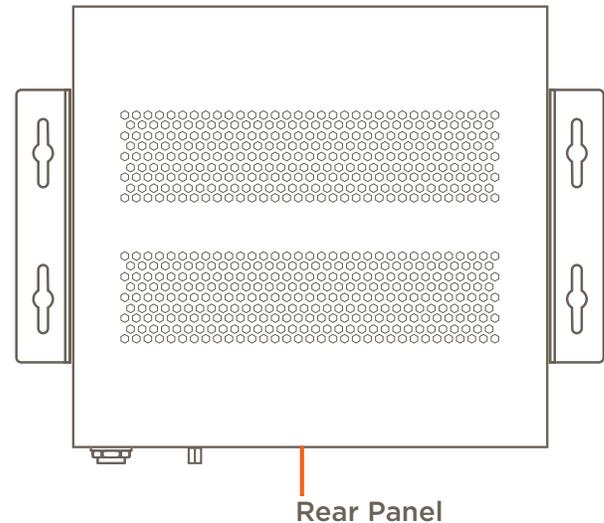
Rack Installation
The PAV-VIM1CP2 can be rack mounted using the RCK-PAVVM8. (rack purchased separately)