# SAVANT

## Savant IP Video Single Output Receiver 4K with POE+ (PAV-VOMVP1F2/ PAV-VOMVP1CP2) Quick Reference Guide

### Box Contents

- (1) IP Video Receiver (PAV-VOMVP1CP2-xx/PAV-VOMVP1F2-xx)
- (1) SFP+ module (PAV-VOMVP1F2-xx only)
- (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 Regulatory Statement (009-1950-xx)

### Specification

| Environmental | |
|---|---|
| Temperature | 32° to 104° F (0° to 40° C) |
| Humidity | 10% to 90% Relative Humidity (non-condensing) |

| Dimensions and Weights | | |
|---|---|---|
| | Device | Shipping |
| Height | 0.98 in (2.50 cm) | 4.0 in (10.16 cm) |
| Width | 8.46 in (21.50 cm) | 9.0 in (22.86 cm) |
| Depth | 5.51 in (13.99 cm) | 16.0 in (40.64 cm) |
| Weight | 1.65lb (0.75 kg) | 4.8 lb (2.17 kg) |

| Power | |
|---|---|
| Input Power | 12V 2A DC<br>PoE+ (IEEE 802.3at) |
| Nominal Power | 16 W (PAV-VOMVP1F2-xx)<br>19 W (PAV-VOMVP1CP2-xx) |
| Maximum Power | 36 W |

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

| Supported Release | |
|---|---|
| Software Release | da Vinci 9.4.3 and higher |

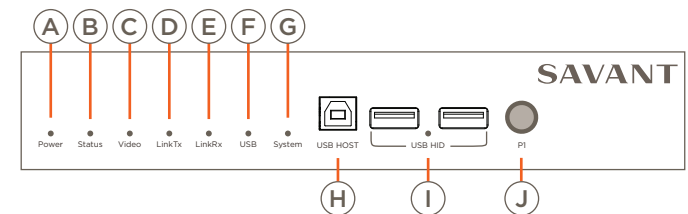### Supported Audio and Video Formats

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

| Video | | | |
|---|---|---|---|
| HDR | Supported | | |
| Dolby® Vision | Supported | | |
| Supported Formats | 640x480[5] | 1280x720[4] | 1920x1080[4] | 3840x2160[3] |
| | 720x480[5] | 1280x720[5] | 1920x1080[5] | 3840x2160[4] |
| | 720x576[4] | 1280x1024[5] | 1920x1080[5] | 3840x2160[5] |
| | 800x600[5] | 1920x1080[1] | 3840x2160[1] | 4096x2160[3] |
| | 1024x768[5] | 1920x1080[3] | 3840x2160[2] | 4096x2160[5] |

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

1920x1080@120Hz requires da Vinci 10.2 and higher.

### Required Components

- Savant IP Video Transmitter
- Savant System Host
- Savant qualified 10G Managed Network Switch
- Savant User Interface
- Savant Development Environment (SDE) and Configuration Tools

### Front Panel



| | Item | Description |
|---|---|---|
| A | Power LED | **Off** - Device is off. No power applied.<br>**Red** - Main board is powered |
| B | Status LED | **Blue** - Reset button is pressed when the device is powered on<br>**Blinking** - Reset button has been released or the device was powered on without holding the reset button |
| C | Video LED | **Off** - No video signal detected.<br>**Blue** - Video signal detected. |
| D | Link TX LED | **Off** - No valid connection<br>**Blue** - Valid link<br>**Blinking** - Sending Ethernet Data |
| E | Link RX LED | **Off** - No valid connection<br>**Blue** - Valid link<br>**Blinking** - Receiving Ethernet Data |
| F | USB | Reserved for future use. |
| G | System LED | Not Used and will remain in the OFF state. |
| H | USB Host | Reserved for future use. |
| I | USB HID | Reserved for future use. |
| J | P1 | Reserved for future use. |

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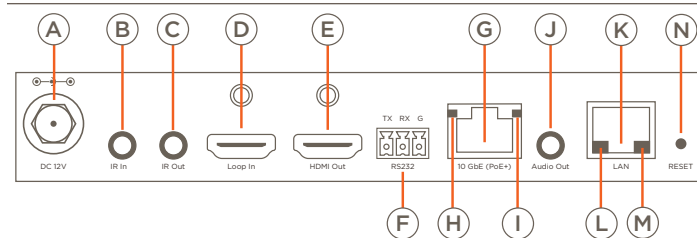
**NOTE**: IP video device requirements and how to manage IP addresses are available on the Savant Device Netwoking Guidelines on the Savant Customer Community.

### 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)
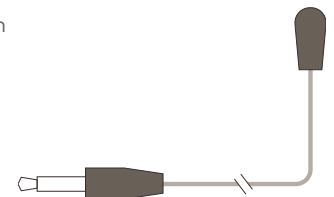- Savant Device Networking Guidelines

## Rear Panel



| Item | | Description |
|------|------|-------------|
| A | Power Input | 12V DC |
| B | IR In | Not Used |
| C | 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. |
| D | Loop In | Reserved for future use. |
| E | HDMI Out | 19-Pin Type A HDMI female digital audio/video output. |
| | | Supports HDMI 2.0a<br>HDMI 2.0 compliant cable required for 4K content. |
| F | RS-232 | 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 to the right. |
| G | 10 GbE | 10G input from the Audio/Video over IP switch. SFP+ (PAV-VOMVP1F2-xx)<br>RJ-45 (PAV-VOMVP1CP2-xx) supports Power over Ethernet (PoE+ IEEE 802.3at standard). |
| H | 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. |
| I | Link Activity LED | **Amber Blinking** - Indicates data activity. |
| | | **Off** – No Activity. |
| J | Audio Out | 3.5 mm (1/8 in) Analog Audio Output. Outputs 2 Ch PCM audio from the local HDMI input when 2 CH and MC PCM is present. Does not support down mixing encoded audio. Direct Line Level 2.1 $V_{RMS}$ Output. |
| K | 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. |
| L | Link LED | **Solid Orange** - Link is established. |
| | | **Off** – No link established. |
| M | Link Activity LED | **Solid Orange** - Link is established. |
| | | **Off** – No link established. |
| N | 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. |

## Wiring and Connections

### IR Wiring
IR connections 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 | Ground |
|-------|--------|
| PIN 2 | Receive |
| PIN 3 | Transmit |

### Optical In (PAV-VOMVP1F2-xx)
Enhanced small form-factor pluggable connection. Duplex LC Multi-mode OM3 Fiber required.

**Transport Distance**

| OM3 multi-mode fiber | 1000ft (300m) |
|---|---|

### 10 GbE (PoE+) (PAV-VOMVP1CP2-xx)
RJ-45 10G Ethernet connection.

**Transport Distance**

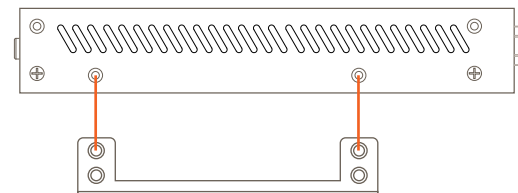| Cat6 | 100ft (30m) |
|------|-------------|
| Cat6a | 300ft (100m) |
| Cat7 | 300ft (100m) |

### Installation
To install this device 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 Savant recommends aligning the device with the rear of the device facing down. This will allow the best heat dissipation.



Power Input          Rear Panel