plexusAV

PlexusAV – Demo Kit Setup Guide

2TX / 2RX with Visual Array and PoE+ Switch

P-AVN-DEMO-KIT-1 (part number)

Dear Customer,

Hats off to you for being adventurous enough to test drive PlexusAV's cutting-edge AV over IP gear! Your feedback is our magic and vital ingredient for greatness.

We've toiled away in our tech lab to make sure this kit is as solid as possible, but even superheroes can have their occasional off-day.

So, if you hit any bumps in the road or need a helping hand, give us a shout via the contact details below. We are here to make sure your experience is as smooth sailing as possible.

Sincerely,
The PlexusAV Team

John Orlando
US Sales Manager | Office: 605-978-4633 | Cell: 253-961-7019
John.Orlando@plexusav.com

Jason Fritz
Product Manager | Office: (605) 978.4646| Cell: 605-610-6624
Jason.Fritz@plexusav.com

Contents of P-AVN-DEMO-KIT-1

The following is a list of the items that are included:

1. 4x P-AVN-4 Transceivers *(preconfigured, always ships with latest software)*
   - 2 units configured for encoder *(scaler set to auto / pass-through)*
   - 2 units configured for decoder *(scaler set to manual FHD 1080p60 Output)*
2. 1x P-AVN-VA-MINI Visual Array Management Server
   - Mini PC with Visual Array Software
   - Power Supply *(120-240v ranging DC adapter)*
3. 1x 8-Port PoE+ Switch *(120-240v ranging - includes standard power cable)*
   - Accommodates up to 8x PoE+ devices @ 30W
   - Hosts DHCP server for easy plug-and-play login
4. Cables
   - 5x Black Network Cables
   - 1x Green 15FT Network Cable
   - 4x Black HDMI Cables
5. Logitech C920X Pro Webcam
   - 1x USB-C to USB-A adapter plug (attached to webcam)
6. 8x 5-Pin Phoenix Adapters
   - Used for the RS232 and Analog I/O wiring
7. Printed Quick-Guide (This Document)
8. Glossy PlexusAV "Quick-Card"
   - Includes QR codes that link to the support form and product info on the website

If any of these items were omitted from the packaging, please email Jason.Fritz@PlexusAV.com to obtain a replacement or just call one of the numbers above
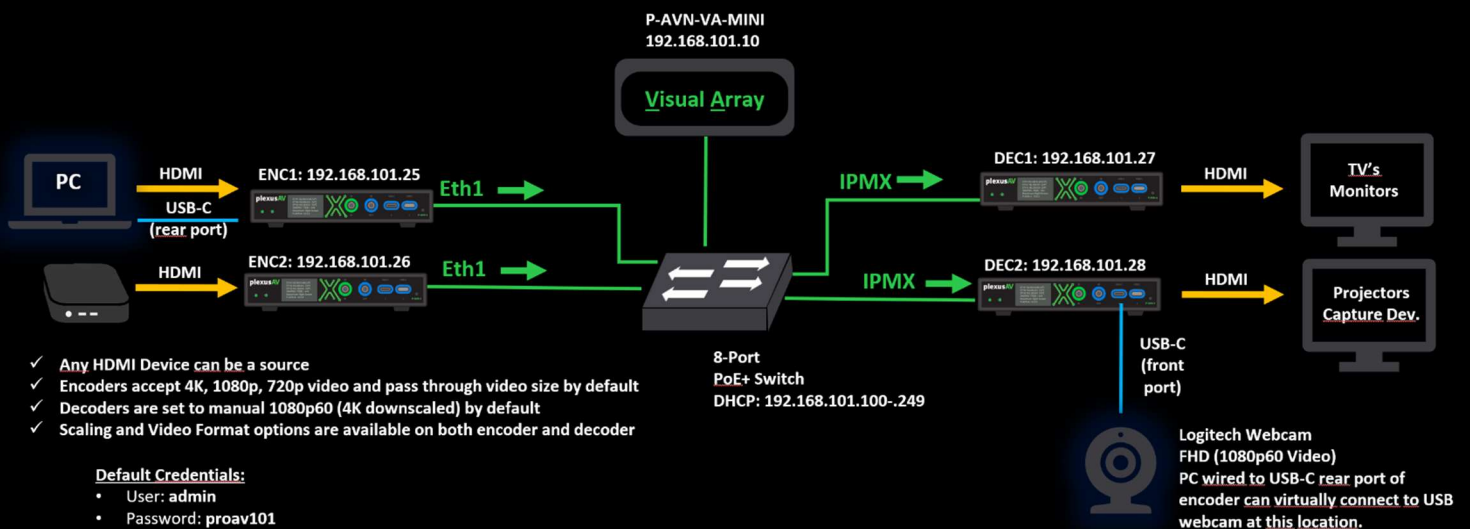
Before you start:

- The PoE+ switch is under the cables on the right cavity of the case
- The P-AVN-4 units from the top down are (Encoder 1, Encoder 2, Decoder 1, Decoder 2)
  - Front panels will also show this when booted
- Makes sure you have a computer available to open web-interface from browser
- Visual Array and P-AVN-4 units use the same credentials:
  - Username: **admin**
  - Password: **proav101**
- The switch is pre-configured, if you would like to access the switch interface and see settings contact procare@plexusAV.com to request the password, or scan the QR code from the included Quick-Card to submit a support ticket.

Network Information and IP Addresses:

MODEL	DEVICE	NAME	IP	SUBNET	GATWAY	Primary Video	Primary Audio	Primary HDR
Niveo	Switch	SWITCH	192.168.101.254	255.255.255.0	192.168.101.1			
P-AVN-VA-MINI	Eth	P-AVN-VA	192.168.101.10	255.255.255.0	192.168.101.1			
P-AVN-4	Eth1	ENC1	192.168.101.25	255.255.255.0	192.168.101.1	239.192.1.1:1234	239.192.1.2:1234	239.192.1.3:1234
P-AVN-4	Eth1	ENC2	192.168.101.26	255.255.255.0	192.168.101.1	239.192.1.5:1234	239.192.1.6:1234	239.192.1.7:1234
P-AVN-4	Eth1	DEC1	192.168.101.27	255.255.255.0	192.168.101.1			
P-AVN-4	Eth1	DEC2	192.168.101.28	255.255.255.0	192.168.101.1			
DHCP POOL	SWITCH		192.168.101.100-249	255.255.255.0	192.168.101.1			

Initial wiring and login steps:

1. Open the flight case and confirm all parts are included
   a. Remove cables, and PoE+ switch from right cavity

2. Power on the 8-port PoE+ switch first, this will take a couple minutes to boot up
   a. Any port may be used for gear connections, *except the Console Port*

3. Wire green ethernet from User-PC to switch port
   a. The PoE+ switch should give a DHCP address to the computer
   b. IP's assigned by the switch to the computer should be in the range 192.168.101.**100** – 192.168.101.**249**

4. Remove Visual Array compact appliance and connect power supply
   a. It should turn on automatically when power is connected

5. Wire black ethernet cable from Visual Array to the switch

6. Connect a network cable between Visual Array (mini-PC) and the network switch

7. Wire all of the P-AVN-4 transceivers to the switch
   a. The Eth1/PoE+ port on the transceiver will receive both power and data
   b. The P-AVN-4 will take approximately 60 seconds to booth
      i. Screen will show plexusAV logo first
      ii. Once booted screen shows IP address, mode, and NMOS name

8. Open a web-browser such as Safari or Chrome and navigate to the Visual Array address:
   a. https://192.168.101.10 (static IP of VA-MINI)
   b. Visual Array Username: **admin**
   c. Visual Array Password: **proav101**
   d. There may be a prompt by the browser software to accept or proceed to the website without certificates. This is normal, click Advanced and/or Proceed to open up the VA interface

   i.

9. To login to the P-AVN-4 units directly, use the Eth1 IP shown the front panel
    a. Example: https://192.168.101.25
    b. Username: **admin**
    c. Password: **proav101**

10. Wire an HDMI signal from laptop into the HDMI IN port of the first encoder
    a. Front panel will show 192.168.101.25 Eth1 IP and "ENC" NMOS name reference
    b. ***optional*** Wire USB-C cable from laptop to rear USB-C3 port on the encoder
    c. Configure computer to output HDMI video/audio

11. Wire an any HDMI signal into the second transmitter
    a. Front panel will show 192.168.101.26 Eth1 IP

12. Wire both decoder HDMI outputs to a television display, monitor, projector, etc.
    a. These are configured to always output 1080p60 to the display

USB Instructions:

1. Connect the Camera to a **Decoder** only using a front panel USB ports with blue LED's
    a. (rear port C3 is for connection to PC only)
    b. The front panel USB connectors can also be used for a Keyboard and/or Mouse
2. Connect the PC to the front panel on an **Encoder** only
    a. Rear USB-C3 port is for Encoder mode and wires to the computer

Appendix: Tutorials and Troubleshooting Tips

How to set a static IP on your laptop in Windows:

Configure the user computer/laptop for the following static IP address using the following steps:

a. Click **Start Menu** > **Control Panel** > **Network and Sharing Center** or **Network and Internet > Network and Sharing Center.**
b. Click **Change adapter settings**.
c. Right-click on **Wi-Fi** or **Local Area Connection.**
d. Click **Properties**.
e. Select **Internet Protocol Version 4 (TCP/IPv4)**.
f. Click **Properties**.
g. Select **Use the following IP address**.
h. Enter the **IP address** 192.168.1.100, **Subnet mask** 255.255.255.0, **Default gateway** and **DNS server** can be left blank.
i. Click **OK**. > Your computer displays a static IP address.
j. The laptop/PC network configuration should look like this: