

PlexusAV P-AVN-4

Firmware Version 1.2.1 Release Notes

June 20, 2025 - v1

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Introduction

This document covers firmware version 1.2.1 of the PlexusAV P-AVN-4 transceiver.

The new features section contains additions to the 1.1.x version.

Important note:

- **If you are using PlexusAV Visual Array, upgrade all P-AVN-4 units to firmware 1.2.1 first and then continue with the Visual Array 1.2.0 upgrade.**

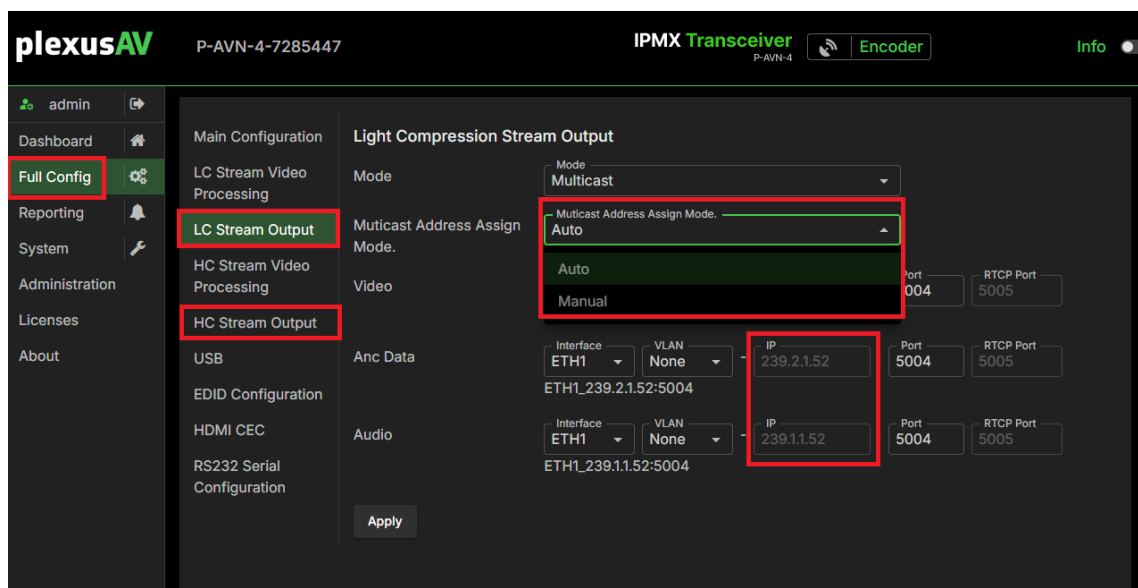
New features

- **Auto Assign Multicast IP address based on unicast IP address**

In previous firmware versions, each P-AVN-4 encoder would have the same default multicast address. Not changing multicast addresses of the output streams to be unique between encoders resulted in overlapping streams. Errors would include “Link oversubscriptions”. Basically, preventing the audio and video signal from passing correctly.

With the implementation of “Auto assign multicast IP address”, this will no longer happen. By default, each Encoder will be assigned a unique multicast IP address based on the Encoder unicast address.

On the P-AVN-4 Encoder, go to “Full Config” -> “LC Stream Output” or “HC Stream Output”. Under “Multicast Address Assign Mode”, you can choose “Auto” to enable this feature. Choose “Manual” if you want to set the Multicast IP address manually.



In the screenshot above, the Unicast IP address of the encoder is 192.168.1.52. The Video, Audio and Ancillary Data Multicast IP addresses are auto assigned. based on this unicast address. Respectively 239.0.1.52 and 239.1.1.52 and 239.2.1.52

Note: in the unlikely case that multiple Encoders share the same 3rd and 4th octet in the unicast address, the multicast auto assignment will fail. E.g. 172.16.0.1 and 172.17.0.1

- **HDCP on H.26x Stream**

The H.26x stream on the P-AVN-4 is now fully HDCP compliant.

Upgrade procedure

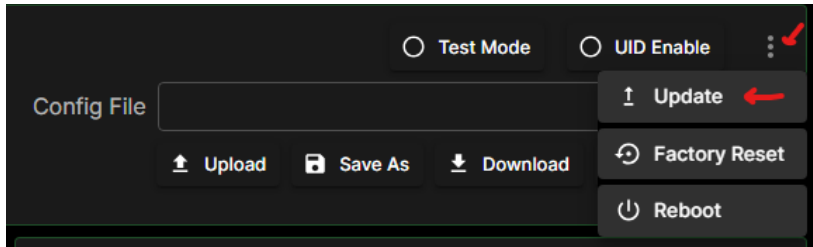
There are two ways to upgrade the P-AVN-4 firmware:

1. Using P-AVN-4 local WebUI
2. Using Visual Array: upgrading multiple P-AVN-4 units in one go

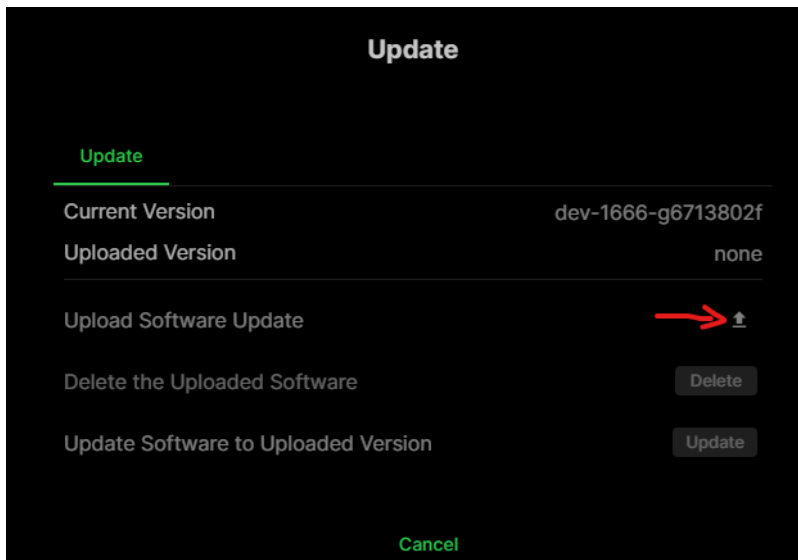
We will cover both ways of upgrading.

Upgrade with Local P-AVN-4 WebUI

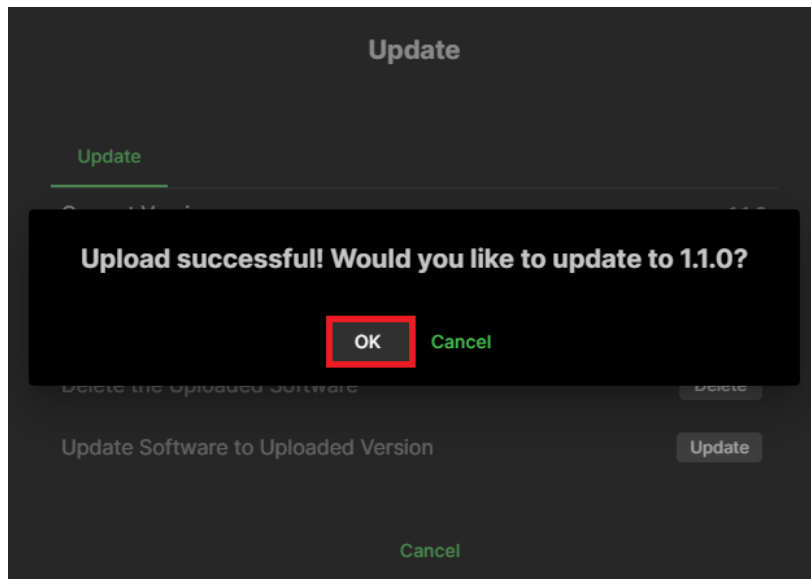
Log into the unit and look for the ellipse on the right side of the web UI. Click it, then click “Update”.



Click the “Up-arrow” icon to open a window to select the update.

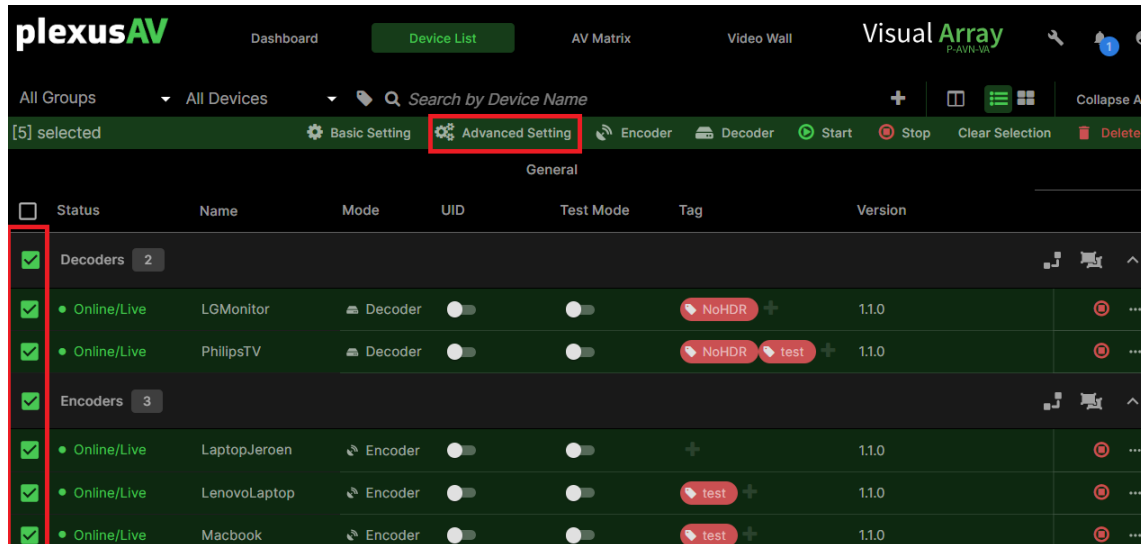


Select the update file and click “Open”. Then click “OK” to upgrade.

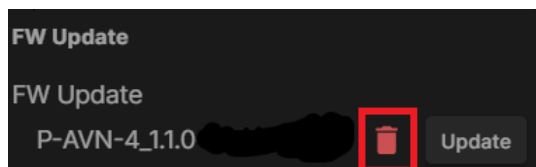


Batch upgrade with Visual Array

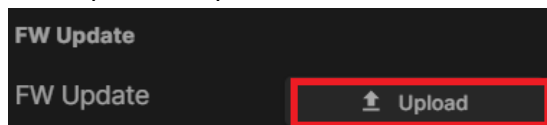
Select all transceivers in device list and go to “Advanced Settings”:



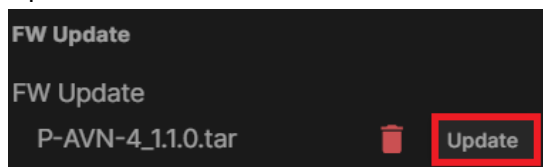
Delete any existing VA uploaded firmware (if there is any existing firmware) by clicking the bin button:



Click upload to upload the firmware to VA:



Update the units:



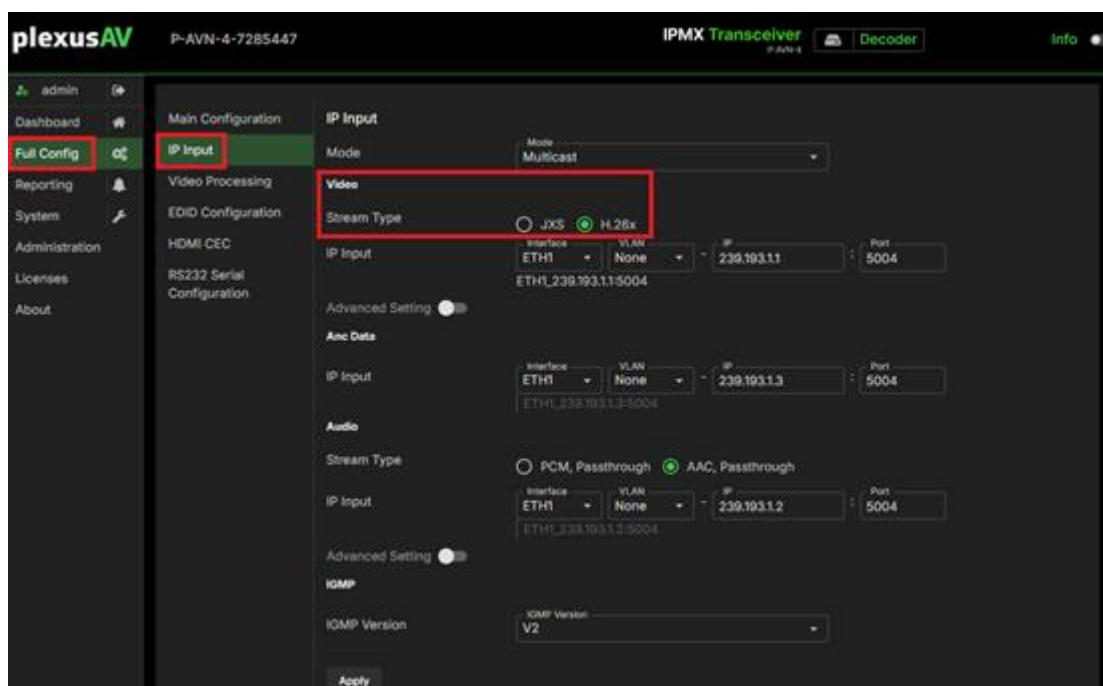
If all units are ready (100%), leave the advanced settings by clicking “Cancel”.

Known issues

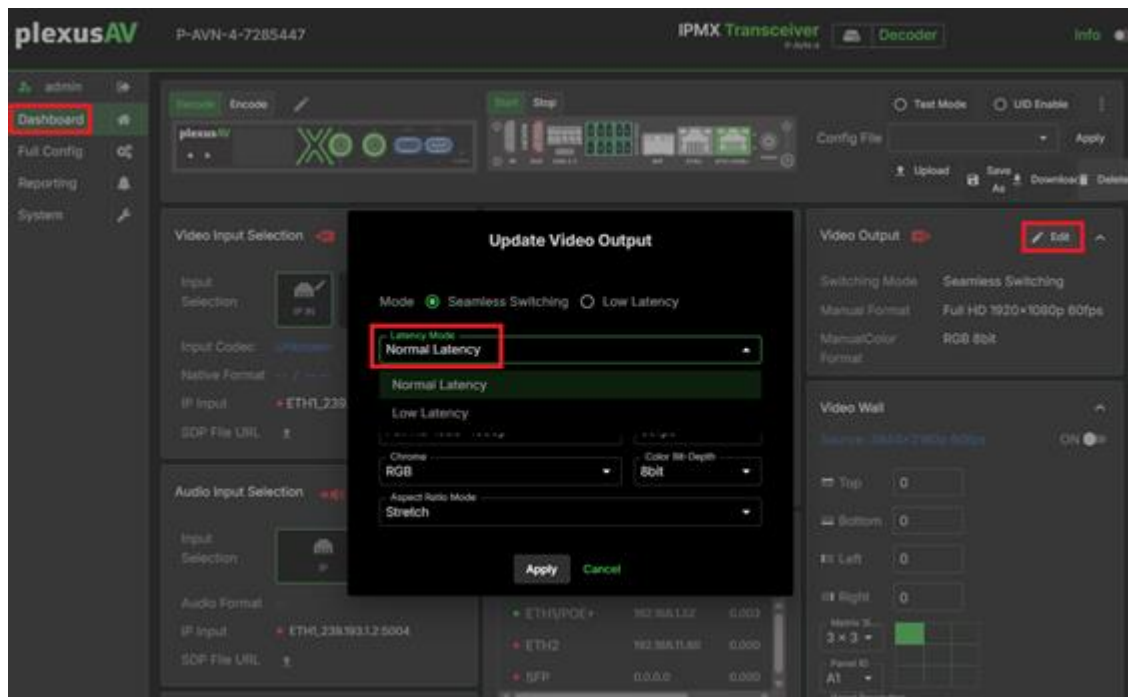
- **Stream Conversion Gateway compatibility**

If the P-AVN-4 Decoder receives IPMX streams from the PlexusAV Stream Conversion Gateway, we recommend setting it to “Normal Latency” mode. If it is set to “Low Latency” you might experience occasional flickers or dropped frames.

You can set the P-AVN-4 “Normal Latency” mode by first selecting H.26x as input. Go to “Full Config” -> “IP Input” and select “H.26x” under “Video”:



Next go to: “Dashboard”-> “Video Output” -> “Edit” and change to “Normal Latency”.



- **H.26x switching time**

Depending on video complexity, switching between H.26x streams can take between 2.5 and 3.5 seconds.

- **Precision Time Protocol (PTP) Time to Live (TTL)**

P-AVN-4 PTP packets have TTL=1, meaning that they will not be routable (between subnets / VLANs). We will increase the TTL to 255 in the next release. If you have an application that requires PTP routing now, please contact us.