

PlexusAV Visual Array

Firmware Version 1.3.0 Release Notes

September 8, 2025 - v1

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Introduction

This document covers software version 1.3.0 of PlexusAV Visual Array.

Firmware for all PlexusAV products is aligned, meaning that all devices running 1.3.x firmware will work together seamlessly.

The New Features section highlights the additions introduced since the 1.2.x versions.

Important note:

- **We recommend upgrading the P-AVN Transmitters/Receivers first (to version 1.3.x) and then continuing with the Visual Array upgrade.**

New features

Visual Array REST API

In addition to the existing GraphQL API, Visual Array 1.3.0 introduces a REST API.

The REST API offers the following properties:

- Minimized number of API calls to complete a task
- Uses friendly names instead of IDs
- Support AV matrix presets
- Provides a basic command set
- Additional commands will be added gradually

For more information, please refer to Visual_Array_REST_API_V1.3.0 2.pdf

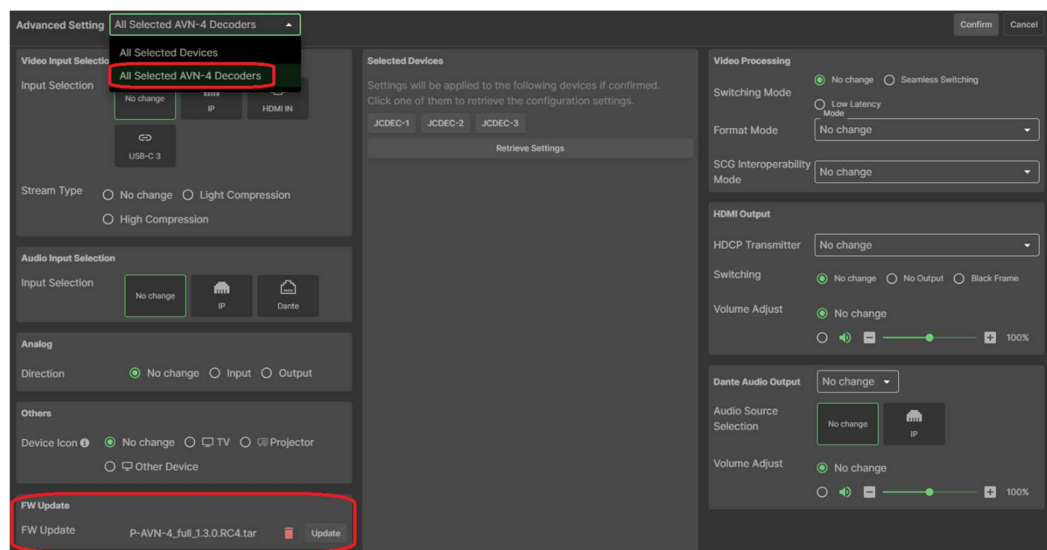
Support for new plexusAV products

Visual Array 1.3.0 adds support for the following plexusAV products: P-AVN-4, P-AVN-2, P-AVN-2E, P-AVN-2D and P-AVN-3-HDBT

Batch Firmware Upgrade

The firmware upgrade feature for multiple Transmitters/Receivers is now located in a different part of the user interface. To upgrade the firmware in batch mode, follow these steps:

- Select the desired Transmitters in “Device List”
- Go to “Advanced Setting”
- In the upper-left corner, choose the devices you want to upgrade



Support for new AV Transmitter / Receiver features

Visual Array 1.3 introduces support for new P-AVN transceiver features.

For more information about the new features described below, see the Transmitter / Receiver manual or the 1.3.x release notes.

- Auto Multicast Address setting in “Basic Settings”

The screenshot shows the 'Basic Setting' window with the 'Encoder Multicast' tab selected. A dropdown menu is open for the 'Multicast IP Assign Mode' column, showing 'Auto' (highlighted with a red box) and 'Manual' options. The table below shows three rows of devices with their respective multicast IP addresses and ports.

UID	Name	Dante Device Name	Device Type	Mode	Group	Tag	Multicast IP Assign Mode	Multicast IP Address	Port
☒	JCENC-1	JCENC-1	P-AVN-4	Encoder	Encoders		Auto	239.192.1.1	5004
☒	JCENC-2x	JCENC-2x	P-AVN-4	Encoder	Encoders		Auto	239.11.53	5004
☒	JCENC-2x	JCENC-2x	P-AVN-4	Encoder	Encoders		Manual	239.11.59	5004

- Daisy Chaining setting in “Basic Settings”

The screenshot shows the 'Basic Setting' window with the 'Decoder Daisy Chain' tab selected. The 'Daisy Chain' section is highlighted with a red box. It shows three rows of devices with their respective daisy chain settings. The 'Interface (Bridge to the Base)' dropdown is set to 'ETH1' and the 'Interface (Bridge to the Base)' dropdown is set to 'ETH2'. The 'Bridge (Traffic forward mode)' dropdown is set to 'Unicast forward'.

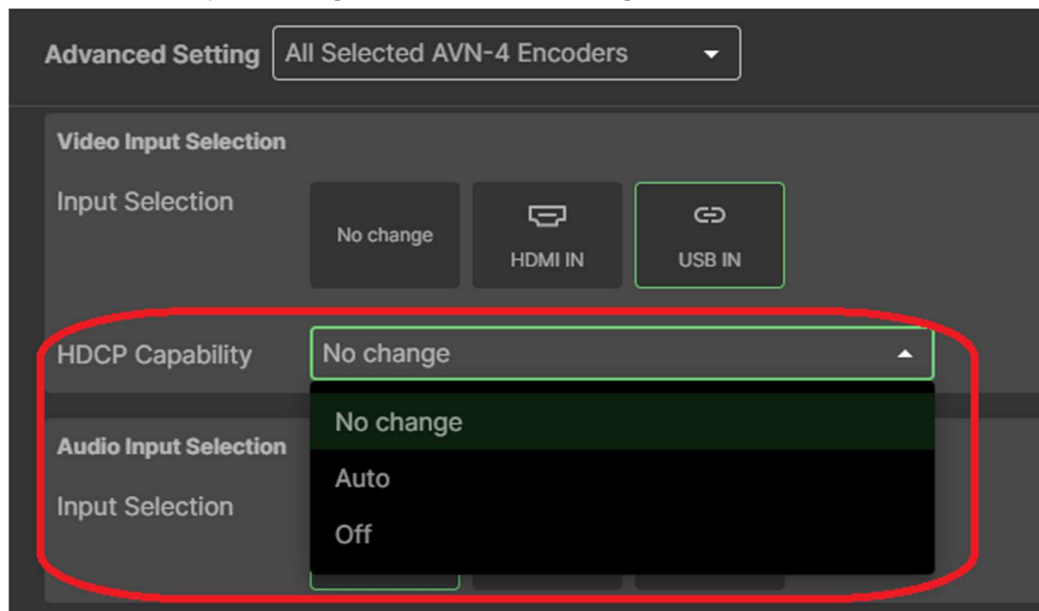
UID	Name	Dante Device Name	Device Type	Mode	Group	Tag	Daisy Chain	Interface (Base)	Interface (Bridge to the Base)	Bridge (Traffic forward mode)
☒	JCDEC-1	JCDEC-1	P-AVN-4	Decoder	Decoders		Disabled	ETH1	ETH2	Unicast forward
☒	JCDEC-2	JCDEC-2	P-AVN-4	Decoder	Decoders		Disabled	ETH1	ETH2	Unicast forward
☒	JCDEC-3	JCDEC-3	P-AVN-4	Decoder	Decoders		Disabled	ETH1	ETH2	Unicast forward

- HDMI output settings in “Advanced Settings”

The screenshot shows the 'Advanced Setting' window with the 'All Selected AVN-4 Decoders' tab selected. The 'HDMI Output' section is highlighted with a red box. It shows settings for 'HDCP Transmitter', 'Switching', and 'Disable HDMI SV power after'.

Video Input Selection	Audio Input Selection	Video Processing	HDMI Output
Input Selection: No change, IP, HDMI IN, GO, USB-C 3	Input Selection: No change, IP, Dante	Switching Mode: No change, Seamless Switching, Low Latency	HDCP Transmitter: No change
Stream Type: No change, Light Compression, High Compression	Direction: No change, Input, Output	Format Mode: No change	Switching: No change, No Output, Black Frame
Others: No change, TV, Projector, Other Device	Device Icon: No change, TV, Projector, Other Device	SCG Interoperability Mode: No change	Disable HDMI SV power after: 10 minutes of no video output to turn off the display.
FW Update: P-AVN-4_full_1.3.0_RC4.1tar	Profile: No change	Dante Audio Output: No change	Volume Adjust: No change

- USB-c HDCP Input settings in “Advanced Settings”



- H.26x encoding settings in “Advanced Settings”

High Compression Stream (H.26x) Enable

Video Output

Codec H.265

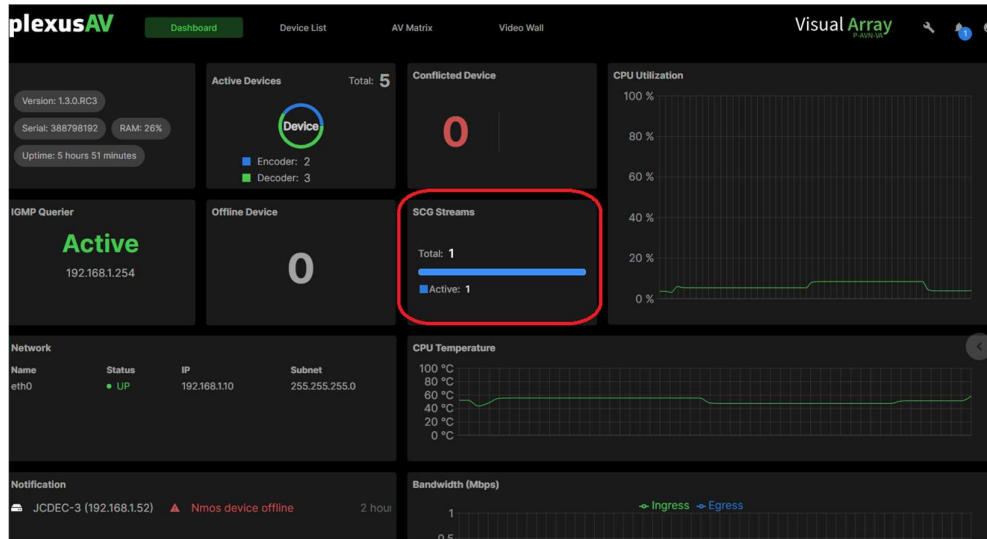
Encoding Mode No change

Bitrate No change
VBR (GDR)
CBR

Color Format

Dashboard shows SCG streams

The visual Array Dashboard now shows the Stream Conversion Gateway Streams status.

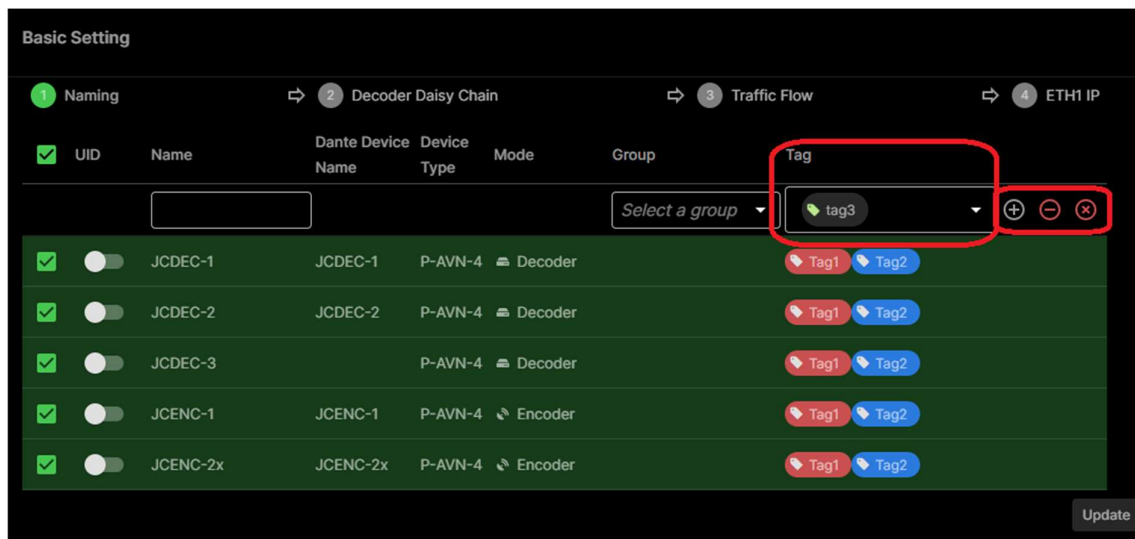


Changed the way to add Tags in batch

We have improved the way tags can be applied to multiple transceivers using the Visual Array “Basic Settings”.

You can now choose if you want to:

- Add the selected tags
- Remove the selected tags
- Remove all tags



AV Matrix Preset Additions

When saving an AV Matrix preset, the following information is included:

- All crosspoints (connections) - No matter Group, Tags and Keywords
- Selected Group information
- Selected Tags information
- Search Keywords information

The screenshot displays the PlexusAV AV Matrix interface. The top navigation bar includes 'Dashboard', 'Device List', 'AV Matrix' (highlighted with a red box), and 'Video Wall'. Below this, the 'All Routing' tab is selected, showing sub-tabs for 'AV Routing', 'Data Routing', 'KVM Routing', and 'H.26x Routing'. A 'Save As' button with a dropdown menu is highlighted with a red box. The main area shows a grid of encoders and decoders. The 'Encoders / TX Devices' section includes 'AIDA_NDI', 'AIDA_RTSP', 'JCENC-1', 'JCENC-2x', and 'TS-IPMX'. The 'Decoders / RX Devices' section includes 'JCDEC-1', 'JCDEC-2', and 'JCDEC-3'. A table of connections is shown below, with green dots indicating active connections and red circles indicating inactive ones.

Decoders / RX Devices	AIDA_NDI	AIDA_RTSP	JCENC-1	JCENC-2x	TS-IPMX
JCDEC-1	+	+	●	+	+
JCDEC-2	+	+	●	+	+
JCDEC-3	+	+	●	○	+

Bug Fixes

- Multiple minor bug fixes
- VA webUI was inaccessible in the following scenario's
 - Gateway IP address set identical to VA IP address
 - VA IP address set to a Link Local IP address (169.254.x.x.)

VA now does a check to make sure these scenarios cannot happen.

Configure[eth0]

Interface Label eth0	Mode Static
IP Address 192.168.1.10 Set the network interface name.	Subnet Mask 255.255.255.0
Gateway 192.168.1.10	Primary Nameserver
Secondary Nameserver	DHCP Server ON ☐ Please set to static IP to enable DHCP server

+ Add a VLAN Remove All

VLAN	VLAN ID	IP Address	Subnet	Gateway	Remove
No VLANs					

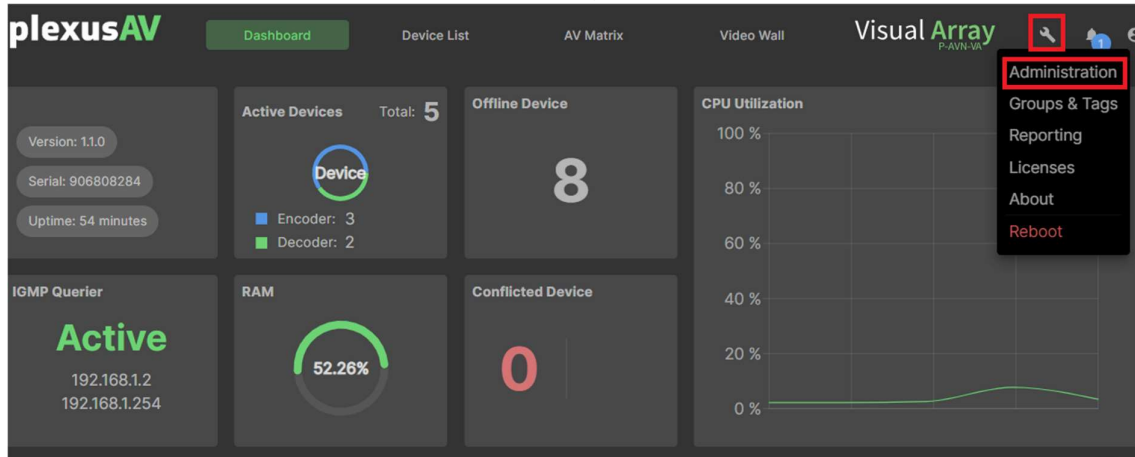
Apply Cancel

Known issues

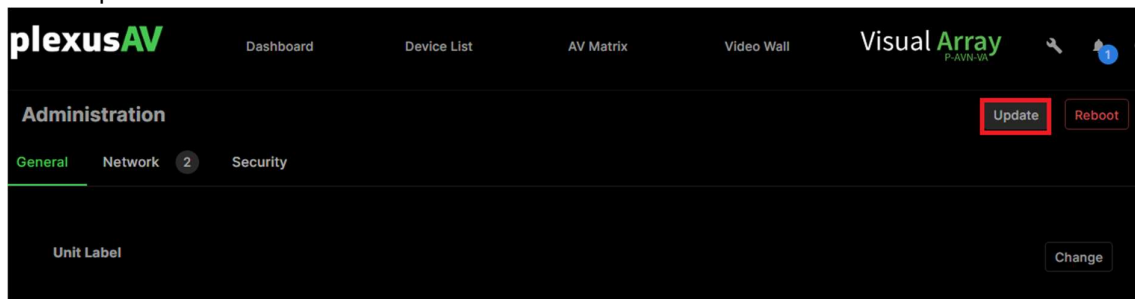
- There are no known issues

Upgrade procedure

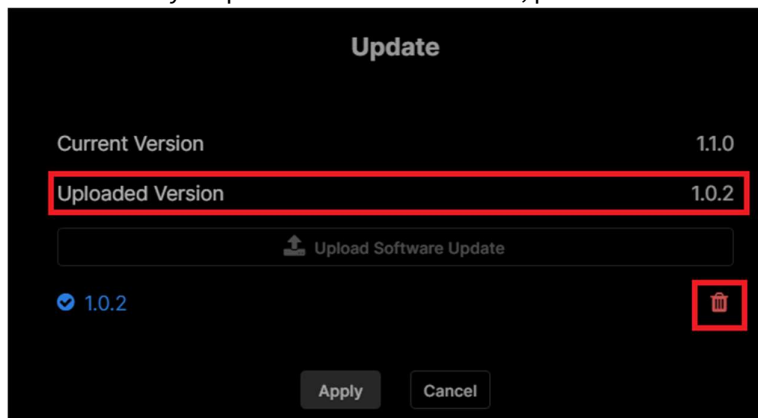
In Visual Array, click the “tools icon” in the upper right corner and select “Administration”.



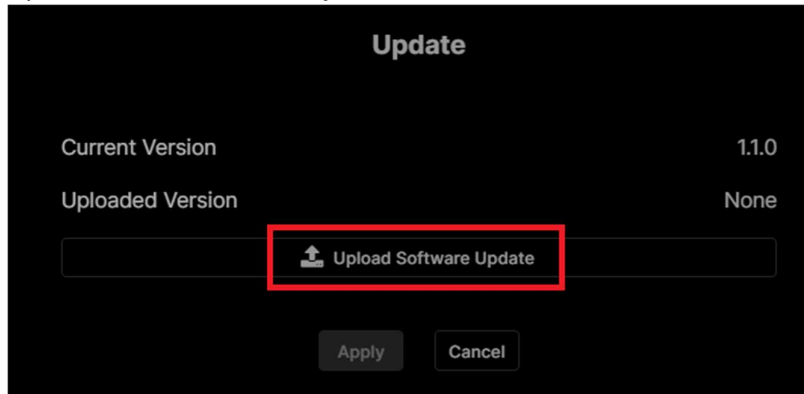
Click “Update”.



If there already is uploaded firmware version, please delete it with by clicking the “bin” icon.



Upload the 1.1.1 Visual Array software:



The screenshot shows a dark-themed 'Update' window. At the top, the title 'Update' is centered. Below it, there are two rows of text: 'Current Version' followed by '1.1.0', and 'Uploaded Version' followed by 'None'. Underneath these rows is a horizontal bar containing a red-outlined button with an upload icon and the text 'Upload Software Update'. At the bottom of the window are two buttons: 'Apply' and 'Cancel'.

Current Version	1.1.0
Uploaded Version	None

Click “Apply” to apply the new software.