SMPTE ST 2110-30 & NMOS for Violet Audio dMix 128

Violet Audio/Violet Audio US has announced a major expansion of the dMix 128 Digital Mixer platform with the addition of full SMPTE ST 2110-30 audio-over-IP support and key AMWA NMOS standards, bringing modern broadcast network audio workflows to one of the industry's most affordable high-performance digital mixing systems. The new release represents a significant milestone for the dMix 128 and further establishes Violet Audio's reputation for delivering market-driven innovation that challenges traditional assumptions about performance, scalability and price in professional audio.

While SMPTE ST 2110 and NMOS have become foundational technologies within modern television facilities, broadcast centers, esports venues, remote production environments and large-scale AV systems, access to these workflows has traditionally required investment in premium broadcast infrastructure. With this latest update, Violet Audio is making those same capabilities available within a compact, affordable digital mixing platform designed for live production, broadcast, streaming, installed sound and hybrid production environments.

The latest dMix 128 software now includes support for:

- SMPTE ST 2110-30 for professional uncompressed PCM audio over IP
- NMOS IS-04 for device and stream discovery
- NMOS IS-05 for connection management
- NMOS IS-08 for audio channel mapping

To support these new capabilities, Violet Audio has developed a dedicated Streams management interface that allows users to receive, transmit, clock, discover, connect and manage network audio streams directly from the mixer's browser-based control environment. The implementation has also been tested using the AMWA NMOS Testing Tool, which recognizes the dMix 128 feature set and validates the mixer's NMOS functionality to that level of qualification.

As broadcasters, production companies and systems integrators continue transitioning from traditional point-to-point audio architectures to flexible IP-based infrastructures, the addition of SMPTE ST 2110-30 and NMOS enables the dMix 128 to integrate seamlessly into contemporary production ecosystems while dramatically reducing system complexity and deployment costs.

"This is a very exciting step for dMix 128 and the industry at large," said Danny Olesh, founder of Violet Audio. "SMPTE 2110-30 and NMOS are normally associated with high-end broadcast infrastructure, yet we are bringing this level of IP connectivity into a live mixing product at a price point that makes it accessible to far more engineers, integrators and venues."

The announcement is particularly significant because it introduces functionality rarely found in products within the dMix 128's market segment. The combination of standards-based discovery, connection management and channel mapping allows users to rapidly deploy and manage IP audio networks without relying on proprietary workflows or extensive external configuration.

For broadcast engineers, the update provides direct interoperability with modern SMPTE 2110 infrastructures used throughout television production, sports broadcasting, news operations and remote production facilities. For systems integrators and AV professionals, NMOS support simplifies system commissioning and ongoing management while ensuring compatibility with a growing ecosystem of standards-based networked devices.

With the addition of SMPTE ST 2110-30 and NMOS, the dMix 128 offers an exceptionally comprehensive feature set that includes 32 Mic/Line In, 24 Line Out, MADI IO, 128 mixing channels, dual redundant PSU, ultra-low 0.3 ms latency, over 300+ channels of redundant AES67 networking, 64x64 CoreAudio/ASIO drivers, FPGA-based signal processing, advanced matrixing, integrated effects and browser-based control.

The update provides immediate benefits across multiple applications:

- Broadcast and Media Production: Direct integration into SMPTE 2110 facilities and modern IP-based production environments.
- Live Production: Simplified connectivity to stage boxes, recording systems, production switchers, audio networks and mobile broadcast units.
- Streaming and Content Creation: Standards-based audio transport for increasingly sophisticated live streaming and remote production workflows.

- Installed AV Systems: Easier discovery, configuration and management of network audio devices using NMOS standards.
- Hybrid Production Facilities: A single platform capable of supporting live sound reinforcement, broadcast production, recording and AV integration simultaneously.

The new Streams interface presents receive and transmit streams, clocking information, stream status, channel counts, sample rates, PTP synchronization status and routing information within a practical engineering-focused workflow designed for fast deployment and operation.

“This is not just a checkbox feature,” Danny Olesh added. “The goal is to make professional IP audio easier to use. Engineers should be able to discover devices, connect streams and map audio without needing a complicated external setup. That is exactly where NMOS makes a huge difference.”

Violet Audio’s dMix 128 is shipping now from select Authorized Retailers at $5995.00. The SMPTE ST 2110-30 with NMOS six month trial version will be supplied free of charge through the end of 2026. Beyond the initial trial period, the new feature set will be offered for a $499.00 annual subscription fee and $1995.00 for the perpetual license.

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