



SIZE DOWN.
POWER UP.



NEXUS compact // AUDIO INTERFACE

MULTIFUNCTION AUDIO INTERFACE

THE NEXUS COMPACT DELIVERS THE SAME STATE-OF-THE-ART AUDIO QUALITY AND EXCEPTIONAL RELIABILITY AS THE NEXUS MODULAR. DESIGNED AS A SLEEK EDGE DEVICE FOR NEXUS NETWORKS AND AVATUS MIXING CONSOLES, THE NEXUS COMPACT CAN BE EFFORTLESSLY INTEGRATED INTO BROADCAST ENVIRONMENTS THROUGH EMBER+ AND GPIOs. FURTHERMORE, ITS STANDALONE CAPABILITIES MAKE THE NEXUS COMPACT AN EXCELLENT CHOICE FOR PREMIUM MOBILE RECORDING, AS WELL AS A VERSATILE TOOL FOR BOTH LOCAL AND REMOTE MIXING.



OVERVIEW

The compact housing, measuring half the size of a 1U 19" rack (mounting Kit for 1 or 2 pieces in 1 RU available), efficiently converts baseband and analog signals into IP audio standards, including AES67, Dante, Ravenna, and ST 2110-30/31. It utilizes open standards and protocols to ensure compatibility and flexibility. The NEXUS compact features an intuitive web-browser-based user interface for controlling the on-board DSP mixer functions, providing seamless and user-friendly operation.

FEATURES

The NEXUS compact 2.0 is a versatile and powerful audio interface, designed with a fixed set of I/O resources, GPIOs for external control, and an audio-over-IP interface. Its features include:

- 8 TrueMatch® microphone inputs with 4-way splits
- 4 AES3 stereo inputs | 4 AES3 stereo outputs
- 8 analog outputs
- Stereo headphone output
- 64 Dante or AES67 I/O channels
- 6 General Purpose Inputs (GPI) / 5 General Purpose Outputs (GPO), configurable in pairs as encoders
- Optional license for enhanced control of the NEXUS compact (Dante version only) from Yamaha CL/OL consoles

This configuration ensures high-quality audio performance and flexible connectivity for a wide range of professional audio applications.

DSP Functions for Local Sound Processing

- 120 x 16 Mix Matrix: Versatile mixing capabilities for complex audio setups.
- 16 x Input Processing: Includes Delay, Expander, Equalizer (EQ), and Compressor for each input channel.
- 16 x Output Processing: Features Delay, Equalizer (EQ), Compressor, and Limiter for each output channel.
- AVATUS Equalizers: High-quality EQs for precise sound shaping.
- AVATUS Compressors: Advanced compressors with modern wet/dry mix, adjustable knee, and soft-clip parameters.
- High-Resolution Conversion and Processing: Supports sampling rates up to 192 kHz for superior audio quality.

User Interface

The NEXUS compact is controlled using a web browser. Simply enter the IP address or URL into any browser on a tablet or laptop within the same network domain to access a comprehensive user interface. This interface provides full access to all parameters of the I/O resources, including the ability to store snapshots and configure the GPIOs.

Audio expert on STAGETEC's NEXUS compact



RELIABILITY

To ensure robust performance, our system incorporates both Power-over-Ethernet (PoE) and an external power supply. Additionally, network redundancy is achieved through SMPTE 2022-7 seamless protection switching, which is essential for modern SMPTE 2110 workflows.

APPLICATION AREAS

- Reference microphone converter for recording studios
- Compact design seamlessly integrates with existing networks using Dante or AES67 formats
- Ideal for connecting microphone arrays on-camera, enabling immersive sound capture and IP transport
- Perfect for small workstation I/O applications
- Reference monitoring with GPI source selection capabilities
- On-site mixing for remote productions, allowing for the creation of local talent source's IFBs without delay
- Commentary box solution for sports events and e-gaming
- Swiss army knife for PA system engineers
- High-end microphone inputs compatible with Yamaha CL/QL consoles

TRUEMATCH

The patented TrueMatch® technology delivers unparalleled audio quality with minimal transducer errors, low distortion, and enhanced aliasing suppression. The unique design achieves a previously unobtainable, unmatched dynamic range of 158 dB, setting a new standard in audio performance. The unique four-stage operation of TrueMatch® converters eliminates the necessity for analog preamplification, effectively eliminating analog overload and component noise for a pristine audio experience.

STAGETEC IP

NEXUS has embraced IP with the introduction of Dante. Later on, AES67 and SMPTE 2110 were added to our roadmap. Since 2018 our consoles connect over IP to the core, making it possible for a full IP STAGETEC solution. Keeping the hybrid option open for backwards compatibility and your peace of mind for a budget friendly upgrade.

EMBER+

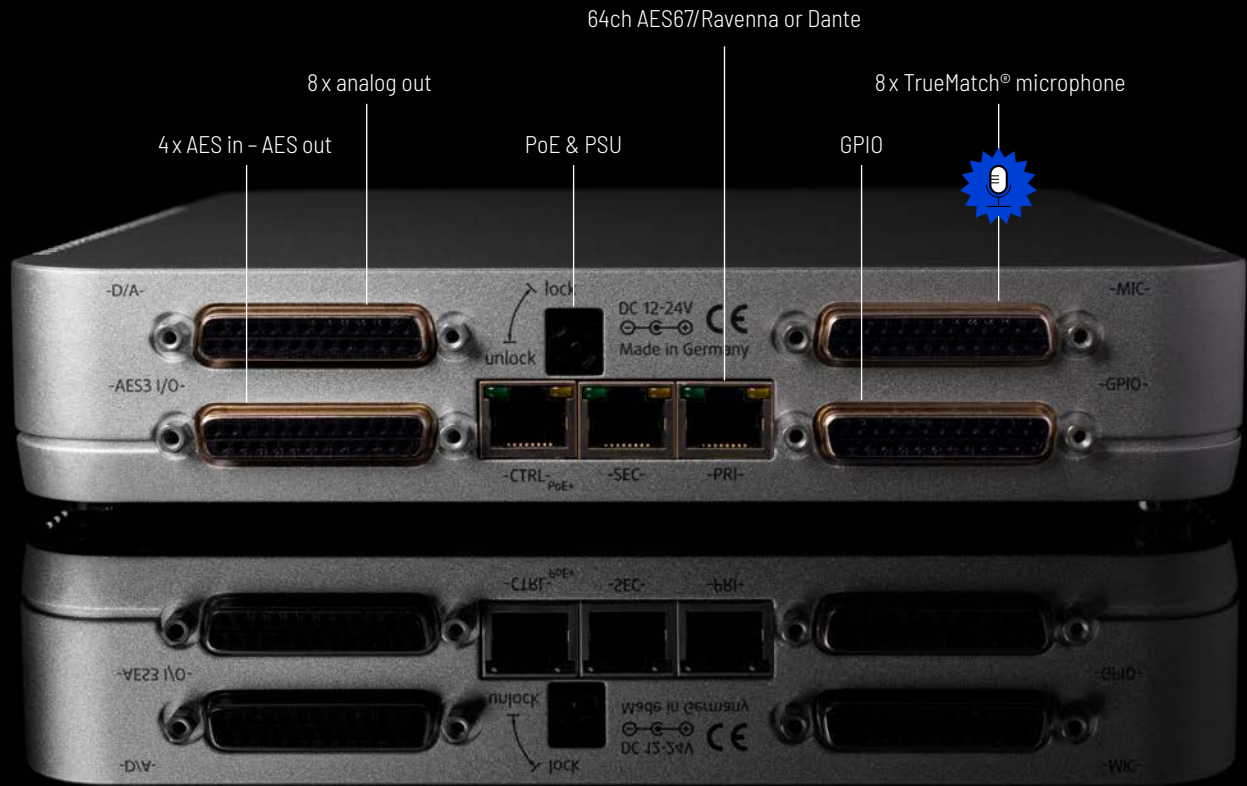
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SMPTE:2022-7

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