

D1

2-CHANNEL INSTALLATION AMPLIFIER, 1000 W @ 2 ? / 800 W @ 4–8 ?, INTEGRATED DSP, AES67 NETWORKING

The Bias D1+ is a two-channel installation amplifier designed to deliver high performance, maximum energy efficiency, and total configuration flexibility. With 800 W per channel at 8 ? (up to 1000 W at 2 ?), it supports both Lo-Z and Hi-Z (70V/100V) outputs—even in mixed configurations—making it ideal for any installed sound system.

Its integrated DSP, controllable via ArmoníaPlus, includes FIR filters, advanced limiters, EQ, delay, and polarity management, with a fixed latency of 2.5 ms and 32-bit floating point processing for pristine audio quality.

Energy efficiency is enhanced by SRM (Smart Rails Management) technology, which optimizes power consumption under all load conditions. A variable-speed fan and passive thermal design ensure reliable operation even in demanding environments, such as UPS-backed or fire safety systems.

Compact (1U), lightweight (7 kg), and equipped with standard Phoenix connectors, the Bias D1+ is perfect for hospitality venues, fitness centers, clubs, event spaces, and professional AV installations.



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HIGHLIGHTS



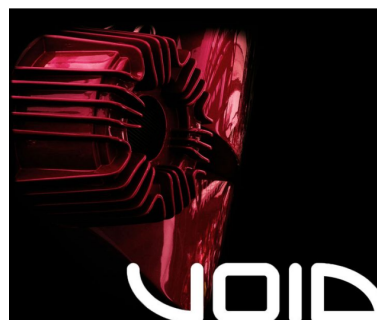
ADVANCED INTEGRATED DSP

The Bias D1+ integrates an advanced hardware DSP designed to provide precise, secure and fully customizable audio management. Compliant with the IEC 60849 standard, it ensures reliability even in critical applications.

The DSP+ version expands functionality with native support for the AES67 standard, enabling audio routing over IP networks and integration into complex digital systems. Everything is manageable in real time via ArmoníaPlus, for complete control over filters, limiters, signal and diagnostics, even remotely.

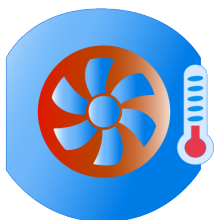
VERSATILE APPLICATION, CONSISTENT PERFORMANCE

Designed to work with lo-Z (from 2 Ω) and 70V/100V distributed lines, any mixed configuration of low and high impedance output loads is possible, making the Bias D1 suitable for all applications in installed sound reinforcement systems.



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Fan controlled by
internal temperature

INTELLIGENT VARIABLE SPEED VENTILATION

Ventilation is controlled by internal temperature, with front-to-rear airflow for rack mounting.

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PRODUCT DETAILS

KEY FEATURES

2-channel 800 W per channel amplifier on 8 ?, also capable of working on 2 ? loads or bridged up to 2000 W, for maximum flexibility in any system.

Ultra-compact construction in 1U rack format, weighing only 7 kg, designed for discreet integration into fixed professional installations.

Applications: high impact nightclub, nightclub fill, vip rooms, indoor and outdoor dance events, cruise ships, outdoor, house of worship, large scale touring, stadium arena, bar, club, lounge, hotel, restaurants, live music venues, stage monitoring

SRM technology for intelligent rail management, resulting in tangible energy savings and reduced heat generation even in continuous use.

SPECIFICATIONS

Number of channels	2
Power rating	800 watts per channel @ 8 ?, 800 watts per channel @ 4 ?, 1000 watts per channel @ 2 ? BRIDGE MODE
Standard Ethernet	IEEE 802.3u, Fast Ethernet 100 Mbit/s auto-sensing
Supported topologies	Star
Remote Interface	Armonía Pro Audio Suite™
AD Converters	24 Bit Tandem™ @ 48 kHz, 125 dB-A, THD+N 0.005%
DA Converters	24 Bit Tandem™ @ 48 kHz, 117 dB-A, THD+N 0.003%.
Sampling rate converter	24 bit, 44.1-192 kHz, 140 dB, THD+N 0.0001%
Internal accuracy	32 bits floating point

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Latency	2.5 ms (fixed)
Preset Memory	128 MB RAM + 512 MB Flash
Delay	2 s input + 100 ms output for time alignment
Equalizers	parametric IIR (peaking, hi/lo-shelving, band-pass, band-stop, all-pass, hi/lo-pass) custom FIR Raised-cosine
Crossover	FIR linear phase Butterworth Linkwitz-Riley Bessel 6 to 48 dB/oct (IIR)
Limiter	TruePower™, RMS voltage, RMS current, Peak
Damping Control	Active DampingControl™ and LiveImpedance™
Selectable gains	26 / 29 / 32 / 35 dB
Input sensitivity @ 8 ?	4.08Vrms for 26dB / 2.89Vrms for 29dB / 2.04Vrms for 32dB / 1.45 Vrms for 35dB
Maximum input level	20 dBu
Frequency response (±0.5 dB)	20 Hz - 20 kHz
Crosstalk (1 kHz)	Typical -70 dB
Signal-to-noise ratio (32 dB gain)	>109 dB(A)
Input impedance	20 k? balanced
THD+N (from 0.1 W to maximum power)	<0.1% (typical <0.05%)
DIM (from 0.1 W to maximum power)	<0.05%.
Slew rate	>50 V/μs (input filter bypassed)
Output channels	2 channels (Hi-Z or Lo-Z, bridgeable)
Analog inputs	2 (Phoenix MC)
AES67 digital inputs	2 channels (1 x RJ45)
Output Connectors	Phoenix PC