Q3

4-CHANNEL AMPLIFIER, 2300 W INTO 4 ?, ADVANCED DSP WITH DANTE/AES67 SYSTEM AND 4.3" TOUCHSCREEN

Q3

The Bias Q3 is a four-channel touring amplifier engineered to deliver premium-grade power and absolute reliability in all environments. With up to 2300 W per channel on 4 ? asymmetric loads, it stands out as the ideal choice for high-output full-range systems—even when working with high impedance (8–16 ?)—ensuring powerful SPL performance.

It features an innovative regulated power supply, with active Power Factor Correction (PFC) and Smart Rails Management™ (SRM) for optimal energy efficiency. The intuitive 4.3" touchscreen with rotary encoder enables quick and easy control on site.

The Q3 includes top-tier DSP with fixed latency architecture, advanced IIR, FIR, and raised-cosine filters, and a full suite of limiters (Peak, RMS voltage/current, and TruePower™). Comprehensive connectivity includes analog, AES3, and Dante/AES67, along with conversion and forwarding, automatic backup switching, and full integration with ArmoníaPlus software.

With Active DampingControl™ speaker cable loss compensation and robust comprehensive protection circuitry, the Q3 delivers stable, secure performance for demanding applications such as festivals, live venues, and small to mid-scale touring.

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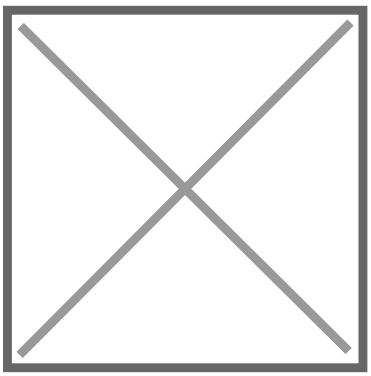
DSP Wireless Control Fan Controlled by Processor Touch Display

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HIGHLIGHTS

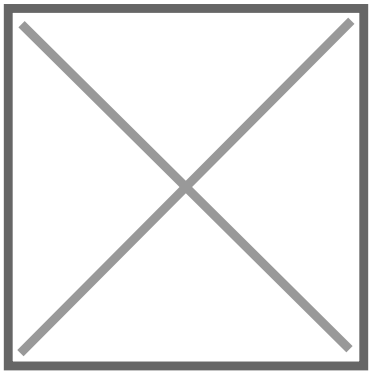


ADVANCED INTEGRATED DSP

The Bias Q3 integrates an advanced hardware DSP designed to provide precise, secure and fully customizable audio management.
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.

4.3” TOUCH SCREEN DISPLAY AND ROTARY ENCODER FOR INTUITIVE CONTROL

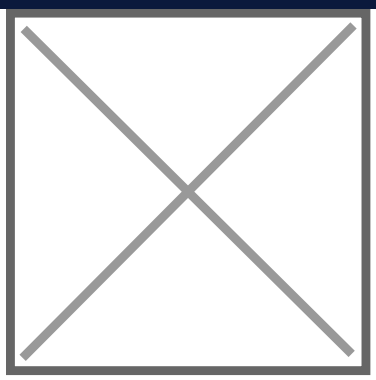
The Bias Q3 redefines the audio management experience with its built-in multitouch capacitive display, designed to offer an intuitive and powerful user interface. Combined with a push-button rotary encoder, it allows precise control of levels, delays, routing, presets, and snapshots directly from the front panel, without the need for external software. The display supports advanced features such as Quick Navigation between settings, Intelligent standby modes with brightness adjustment, Password lock for secure installations, Instant visual feedback via backlit LEDs. In professional environments, Bias Q3 integrates seamlessly with ArmoníaPlus, automatically disabling the display to avoid control conflicts.



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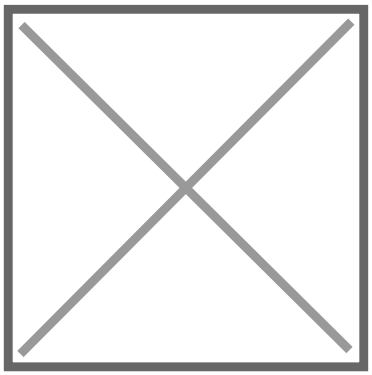


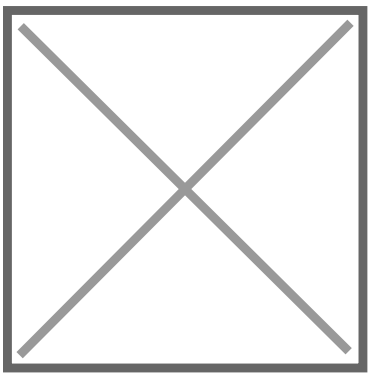
INTELLIGENT EFFICIENCY WITH SRM™ TECHNOLOGY

The Bias Q1.5+ incorporates Smart Rails Management™ technology, which adapts power draw in real time based on the load and audio signal. The result? Reduced power consumption, lower thermal dissipation, and maximum operating efficiency, even with UPS or limited power lines.

PFC (POWER FACTOR CORRECTION) FOR FLAWLESS WORLDWIDE OPERATION

Highly efficient, microprocessor-controlled power supply with built in PFC (Power Factor Correction) for flawless worldwide operation with any AC mains voltage in the range 85-275 VAC tolerant to peak up to 400 V





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

- Innovative power supply design
- Four input channels with physical analogue and digital AES3 link in/out connectors for maximum flexibility
- Analogue to Dante conversion and forwarding for ease of signal distribution
- Customisable input backup policy to automatically switch input source in case of signal failure for improved reliability
- Multi-stage signal processing

SPECIFICATIONS

Number of channels	4
Power rating	SYMMETRICAL
AD converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms (fixed)
Preset Memory	50 amplifier snapshots, virtually unlimited speaker presets
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)

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Limiter	TruePower™, RMS voltage, RMS current, Peak
Damping control	Active DampingControl™ and LiveImpedance™ measurement
Input sensitivity @ 8 ?	2.86 Vrms per 32dB
Maximum input level	24 dBu
Frequency Response @ 8 ? load	20 Hz - 20 kHz +/- 1dB
Crosstalk (1 kHz)	Typical -70 dB
Signal-to-noise ratio (20 Hz - 20 kHz @ 8 ?)	109 Typ. dB(A)
Ouput impedance at 100Hz	30 m?
THD+N (from 0.1 W to half power)	<0.1% (typical <0.05%)
CMRR	65dB typ
Slew rate	>50 V/µs (input filter bypassed)
Output channels	4x channels (speakON NL4)
Analog inputs	4x XLR female, 4x XLR male (LINK)
AES67/Dante digital inputs	4 channels (2x XLR Ethercon)
Output Connectors	4x SpeakON NL4
Input connectors	4x Dante/AES67 TX (from local input or DSP)
Power Supply Type	Universal regulated switching with PFC and SRM
Rated voltage	100-240 V ±10%, 50-60 Hz
Power factor (above 500 W)	>0.95
AC Mains connector	IEC C20 inlet (max 20 A)
Current draw and consumption	idle (DSP+D) 31.1 W (0.45 A @ 115 V) / 31.5 W (0.25 A @ 230 V) | 1/8 power @ 4 ? 405 W (3.7 A @ 115 V) / 405 W (2.1 A @ 230 V)

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