AC415D

Description

The Plus Audio AC415D is a four-channel network DSP power amplifier, delivering up to 2500W per channel at 4Ω or 3600W in bridged mode. Designed for professional sound reinforcement, it provides reliable, high-performance operation across both touring and fixed installation environments.

Built on a 96 kHz / 24-bit DSP platform, the AC415D offers advanced signal processing for precise system optimisation. Its onboard DSP includes FIR filters, parametric EQ, and accurate limiting, all accessible via the integrated 4.3-inch IPS touchscreen or through network-based control.

With support for AES/EBU, analogue, and Dante™ inputs, along with operation in both low-impedance (2Ω–8Ω) and constant-voltage (70V / 100V) configurations, the AC415D delivers exceptional system flexibility. Balanced XLR inputs and speakON outputs ensure secure, professional connectivity.

Control and monitoring are managed through Mconsole software, providing an intuitive interface for configuration, real-time monitoring, and scene management. Users can store and recall presets across multiple devices, simplifying setup and control in complex systems.

Comprehensive protection circuits, including short-circuit, DC, and over/under-voltage safeguards, combined with a universal 100–240V power supply, ensure consistent and dependable performance in demanding audio applications.

Meta Fields

Features :

- 8-channel Dante™ input via integrated BK3 module
- AES/EBU, Dante and analogue input options available with 3 input failover options
- Balanced XLR inputs, speakON outputs
- Integrated 4x4 DSP processor
- 96 kHz FIR phase correction with 4×1024-tap input and 4×2048-tap output filters
- Configurable operation modes: Stereo, Bridge, Mono, and Free Matrix
- Supports both constant-voltage (100V / 70V) and low-impedance (8Ω / 4Ω) operation
- Adjustable input sensitivity via software (26-44 dB)

- 4.3" touchscreen display for intuitive operation
- Real-time amplifier status monitoring
- Remote power on/off control
- Selectable startup state: Power on / Standby
- Full software control with simultaneous integration into media matrix or DSP systems
- Browser-based control compatible with Windows, macOS, Linux, and Android
- Multiple control interfaces available for multi-device management: TCP/IP, RS-232, and RS-485
- Dual network ports for direct PC connection

Specification :

Amplifier channels	4
Output power	4×1500W@8Ω, 4×2500W@4Ω, 4×2500W@2Ω
Bridged power	2×3600W@8Ω, 2×3600W@4Ω
100V output power	100V (4×max 2000W)
70V output power	70V (4×max 1225W)
Max. output voltage	109V
Max. output current	13.6A
Min. load output	2Ω / channel
Input connector	4×XLR
Output connector	4×speakOn
Max. input level	20dBu / 7.74V
Sensitivity	12dBu (31dB), 6dBu (37dB), 0dBu (43dB)
SNR	109dB @18dBu, 1kHz, 26dB
Frequency response	20Hz–20kHz (±0.5dB) @1W, 8Ω
THD+N	<1% @1W, full load
Sampling Rate	96k / 24bit
Analogue	4 in / 4 out
AES/EBU	4 in / 4 out
Dante	8 in / 8 out
Display	4.3” IPS touch display
System protection	DSP limiter, high temperature, DC, high frequency, short circuit, back EMF, peak current limiter, surge current limiter, startup delay, power circuit breaker protection, power over-/under-voltage protection
Power requirement	VAC 100–240, 50/60Hz
Dimensions	482×463×88mm
Weight	13kg