



Four-Channel DSP Digital Amplifier

TC-D4200



Description

It is suitable for medium and large theaters, stadiums, auditoriums, banquet halls, concerts, rental venues, outdoor performances, as well as clubs, nightclubs, bars and other entertainment venues.

Feature

- * Using high-efficiency PFC + switching power supply + Class D digital power amplifier design scheme, with minimal output distortion and high efficiency;
- * Using high-end DSP processor with built-in compressor, limiter, expander, parametric equalizer, matrix routing, delay, high and low pass processing and other DSP functions;
- * With multiple working modes: matrix mode, bridge, free switching, the simple interface is more convenient for different user needs;
- * Support constant voltage and constant resistance: 16 ohms, 8 ohms, 4 ohms. 500W can be equipped with 100V constant voltage function, and above 700W can be equipped with 70V/100V constant voltage function;
- * 2-inch screen design, it displays the device status: power amplifier status, power amplifier temperature, output mode status, power amplifier real-time voltage/current/power display, and channel current volume;
- * Support online mode: TCP/IP, which can remotely monitor device status display and settings;
- * Input sensitivity can be adjusted in 2 levels: 1V/2V, set by PC software or panel screen;
- * Network TCP/IP control can realize the management of multiple devices, and RS485 supports central control protocol control;
- * Support Chinese and English language switching;
- * The humanized PC software supports separate control of multiple units.
- * Each output channel is designed with 5/8/12-band parametric EQ, matrix, electronic crossover, delay, extender, limiter, gain, mute, polarity and other functions.
- * Support device management, channel management, scene management and other functions.
- * With: overvoltage protection, undervoltage protection, overtemperature protection, overcurrent protection, DC protection, output short circuit protection, temperature control fan and other functions.



Specification

Model	TC-D4200
Output power (20-20KHz/THD≤1%)	Stereo/Parallel 8Ω: 200W×4 Stereo/Parallel 4Ω: 400W×4 Bridge 16Ω: 400W×2 Bridge 8Ω: 750W×2
Connector	XLR interface
Input sensitivity	1V/2V
Input impedance	10kΩ Unbalanced, 20kΩ balanced
Frequency response (@1W power)	20Hz-20kHz /+1/-1dB
THD+N (@1/8 power)	≤0.05%
SNR (A-weighted)	≥95dB
Damping coefficient (@1KHz)	≥200@ 8 ohms
Separation (@1KHz)	≥85dB
Protection mode	Overcurrent protection, DC protection, short circuit protection
Indicator light	Power, Protection, Distortion
Cooling method	Fan cooling
Power supply	~ 220V 50Hz
Overall power consumption	300W
Dimension (L×D×H)	484×452×44
Weight	7.0kg

Notes:

Output power: according to CEA-2006-B/CEA-490-A standard using 20ms pulse 1kHz sine wave measured under 1% total harmonic distortion.
Overall power consumption: according to GB4943.1-2022 test method: measured under 1kHz sine wave rated load 1/8 power conditions.