



Digital Amplifier

TC-4500DT



Description

TC-4500DT is a high-end power amplifier, commonly used in medium and large theaters, outdoor performances, stadiums, clubs, entertainment bars, rental venues, auditoriums, banquet halls, concerts, etc.

Features

1. Standard 19-inch cabinet design with a height of 2U;
2. Adopt high-efficiency PFC + switched power supply + class D digital amplifier, providing extremely low output distortion and high efficiency;
3. Adopt high-end DSP processor, built-in compressor, limiter, FIR processor, noise gate, parametric equalizer, matrix router, delay, high and low pass processing and other DSP functions;
4. Support various working modes: stereo and bridge connection, support free switching between bridge and matrix mode, the simple interface is more convenient for different users;
5. Constant voltage and constant resistance: 100V, 70V, 16Ω, 8Ω, 4Ω;
6. Adopt 4.3-inch IPS capacitive touch screen; display device status: mains voltage/current/amplifier status, amplifier temperature, output mode, amplifier real-time voltage/current/power, channel volume, and speaker impedance, which can be viewed and controlled by switching menus on the panel touch screen;
7. Support various connection methods: TCP/IP; support remote monitoring of device status display and settings;
8. The input sensitivity is adjustable: 2dBu/6dBu/12dBu, set through PC software or LCD screen;
9. Supports free switching of various input sources: analog input, AES3 digital audio input, Dante network audio input. The analog audio interface can be cascaded;
10. When the working mode is switched, the device will automatically detect the speaker impedance and set the corresponding parameters;
11. Support remote power on/off; when the amplifier has no output, it will automatically enter the standby state after 30 minutes, the standby power consumption is low, and the amplifier can be restarted normally within 5s;
12. Network TCP/IP control can realize the management of multiple devices, and the network interface can be cascaded; USB, RS485 support external protocol control;
13. Support DANTE network audio input;
14. Support Chinese and English language switching;
15. Load overcurrent alarm: buzzer alarm when the current of the channel is greater than the set current.
16. Wide voltage operation: 180-264VAC.

Specification

Model	TC-4500DT
Output power (20-20KHz/THD≤1%)	Stereo/Matrix@8Ω×4: 500W×4 Stereo/Matrix@4Ω×4: 700W×4 Bridge@16Ω×2: 1000W×2 Bridge @8Ω×2: 1400W×2 Bridge constant voltage 100V@10Ω: 1000W×2
Connecting interface	XLR, DANTE interface
Input sensitivity	2dBu/6dBu/12dBu
Input resistance	20kΩ balanced
Frequency response (@1W power)	20Hz-20KHz /+1/-1dB
THD+N (@1/8 power)	≤0.05%
SNR (A-weighted)	≥99dB
Damping coefficient (@ 1KHz)	≥200@ 8 ohms
Isolation (@1KHz)	≥97dB
Protection method	Over-current protection, DC protection, short-circuit protection
Indicator light	Power, Protection, Distortion
Cooling method	Fan cooling



Specification

Fan cooling	~220V 50Hz
Overall power consumption	850W
Dimension (L×D×H)	483×450×88mm
Weight	14Kg
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.	