



# Four-Channel DSP Digital Amplifier

## TC-D4500



## 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.



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### Specification

<b>Model</b>	TC-D4500
<b>Output power (20-20KHz/THD≤1%)</b>	Stereo/Parallel 8Ω: 500W×4 Stereo/Parallel 4Ω: 900W×4 Bridge 16Ω: 900W×2 Bridge 8Ω: 1650W×2 Bridge constant voltage: 100V×2 1000W@10 ohms
<b>Connector</b>	XLR interface
<b>Input sensitivity</b>	1V/2V
<b>Input impedance</b>	10kΩ Unbalanced, 20kΩ balanced
<b>Frequency response (@1W power)</b>	20Hz-20kHz /+1/-1dB
<b>THD+N (@1/8 power)</b>	≤0.05%
<b>SNR (A-weighted)</b>	≥95dB
<b>Damping coefficient (@1KHz)</b>	≥200@ 8 ohms
<b>Separation (@1KHz)</b>	≥85dB
<b>Protection mode</b>	Overcurrent protection, DC protection, short circuit protection
<b>Indicator light</b>	Power, Protection, Distortion
<b>Cooling method</b>	Fan cooling
<b>Power supply</b>	~ 220V 50Hz
<b>Overall power consumption</b>	600W
<b>Dimension (L×D×H)</b>	484×452×44
<b>Weight</b>	9kg
<b>Notes:</b>	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.