



Microphone Processor TS-P24D

Teaching hanging microphone processor embedded software V7.89



Description

It is a self-developed high-performance digital audio processor with built-in DSP digital processing chip. It adopts adaptive feedback suppression, automatic equalization, automatic gain and environmental noise reduction technologies to provide users with excellent sound quality. The whole system is suitable for large classrooms, lecture halls and other application environments.

Features

- *Using an adaptive sound field detection algorithm, the system can adaptively set audio parameters according to the acoustic environment, greatly facilitating user use.
- *Built-in high-performance DSP processor supports automatic mixing, adaptive feedback suppression, automatic gain, automatic ducking, reverberation suppression and environmental noise reduction technologies.
- *It has 2-channel microphone inputs and can be powered by a standard 48V phantom power switch as needed.
- *With 4-channel lines IN input, supports signal detection function. When there is audio input at IN, the microphone is automatically muted to avoid secondary sound amplification of the microphone by the front speaker.
- *With 2-channel lines OUT output can be connected to 2 sets of external power amplifiers for sound reinforcement in large classrooms or lecture halls.
- *It has 1-channel SPK signal detection terminal. When there is audio input to SPK, the microphone is automatically muted to avoid secondary sound amplification of the microphone by the front speaker.
- *It has 1-channel RS-485 communication interface for connecting to the control panel for parameter setting and control.
- *Built-in 4*30W high-efficiency intelligent digital power amplifier, can be connected to 4 8Ω fixed-resistance speakers to meet local sound reinforcement needs.
- *Supports 7-band EQ equalization settings, and can adjust low, medium and high tones separately according to actual effects.
- *Supports audio matrix function to realize matrix switching of MIC1~2/LINE 1-4/MIX input audio and OUT1~2, LOUT1~2 output audio.
- *Supports adjustment of microphone input sensitivity; microphone, LINE IN, LINE OUT and SPK volumes can be adjusted independently.
- *Supports manual noise reduction settings, with 7 levels of noise reduction adjustable.
- *Supports preset 4 scene switching settings, and can perform operations such as scene saving, scene restoration, and factory reset.
- *Supports high-pass and low-pass settings. Users can adjust the high-pass and low-pass according to the actual environment, which can effectively filter out environmental noise and low-frequency noise.
- *Supports howling suppression settings, which can increase the microphone transmission gain, with 7 adjustable levels.
- *Supports reverberation suppression settings to filter out ambient reverberation during pickup, making the sound clearer, with 7 adjustable levels.
- *Supports noise gate settings, with customizable threshold, ratio, attack time and release time to effectively eliminate environmental and system background noise.
- *Supports compressor setting with adjustable threshold to prevent damage caused by excessive signal.
- *Supports automatic ducking settings, with adjustable threshold, ducking level, attack time and release time, so that the microphone can automatically duck when there is sound in the line input.



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Specification

Amplifier rated power	4*30W
Amplifier impedance	8Ω
Device interface	1-way control industrial terminal , 4 -way LINE IN , 2- way MIC IN , 1-way SPK IN , 2-way LINE OUT , 4-way SPK OUT
MIC IN sensitivity	40mV
MIC IN frequency response (+1dB/-3dB)	200 Hz ~ 10 kHz
LINE IN frequency response (+1dB/-3dB)	80Hz ~ 16KHz
LINE OUT output level	1024 mV
LINE OUT output impedance	470Ω
Total harmonic distortion	≤1%
Signal-to-Noise Ratio	≥73dB
Operating temperature	-10°C ~ 45°C
Working humidity	20% ~ 80% relative humidity, no condensation
Operating voltage	~ 220V 50Hz
Maximum power consumption	200W
Dimensions (L*W*H)	484 *174.2 *42.5mm
Weight	2 kg