Digital Audio Processor

AP Series

⬟ INTRODUCTION

Over the years, the AP series was born in a very high voice, which will bring a new generation of easy-to-use and cost-effective integration to the market Fixed professional audio processor. Specially designed for conference audio systems, suitable for conference rooms, churches, star hotels, auditoriums, conference centers, multi-function halls, digital courts and other applications.

Intuitive graphical Chinese control interface, clear signal flow, from diversified wall control panels to mobile phone control terminals, AP4 not only brings high-quality audio, but also has strong compatibility, flexible control and simple operation Features.

⬟ REAR PANELICON

- Main power input
- LAN system debugging Ethernet interface
- GPIO external control interface
- RS-232 control port
- Balanced analog output interface
- Balanced analog access interface

❯ FEATURES

High performance, multi-channel

1. Input: 8-channel balanced microphone/line, with 48V phantom power supply
2. Output: 8 balanced line outputs
3. Provide outstanding sound quality of 24bit/48KHz
4. GPIO programmable control interface, 8 logic inputs, 4 voltage input control , 4 logic outputs
5. USB2.0 audio interface, can quickly play and record audio

Flexible control

1. Ethernet port to easily connect to computers and other network devices
2. RS-232 bidirectional serial control interface GPIO control interface
3. Support a full range of RC panels, using TCP/IP connection
4. LAN multi-purpose data transmission and debugging interface
5. Support IOS mobile terminal remote control;

Automatic adjustment

1. Adaptive feedback to eliminate AFC, high-speed floating-point digital algorithm provides feedback suppression for each microphone to suppress system whistling
2. Automatic gain control AGC ensures that the output volume of the audio system is stable, and the speaker's sudden distance from the microphone will not affect the volume of the audience area
3. Multi-mode automatic mixing AM, selectable gate-type automatic mixing or gain-sharing automatic mixing mode
4. Adaptive echo cancellation AEC, quickly eliminate the echo generated in the video conference
5. Optimized gain pre-stage, with 0, 6, 30, 36, 42dB multi-stage gain adjustment

Intuitive design, easy to use

1. The control software runs on the operating system above WINDOWS7
2. Group control function, channel copy, paste, joint control function
3. Support 50 sets of scene preset functions
4. Full-function matrix mixing function, adjustable cross-point level
5. Comes with Chinese and English operating software, intuitive and graphical software control

⟍ SPECIFICATIONS

Projects	AP4	AP8	AP12	AP16
Channels	4in,4out	8in,8out	12in,8out	16in,16out
Storage	50 sets of scenes			
Input channel function	Preamp Amplification, Signal Generator, Expander, Compressor, 5-Band Parametric EQ (Multiple Types Supported, including PEQ, High-Shelf, Low-Shelf, LP, HP)			
Output channel function	Choose from 8-band parametric equalization or 31-band graphical equalization, delay, high-low-pass filter, and real-time response limiter			
Acoustic Echo Cancellation (AEC)	Echo cancellation tail length: 512ms; Built-in ANC noise cancellation: 18dB, MAX			
Adaptive Feedback	Suppression points: 16 points, with manual, dynamic, fixed three processing			
Sampling frequency	48kHz			
Input-to-output	106dB			
Phantom powered	DC 48V			
Input common-mode	75 dBu @+20dBu，60Hz			
Channel isolation	106dB			
Frequency response	20-20kHz(±0.5dB)			
Noise floor	-90dBu			
Equivalent input noise	≤-125dBu			
Total harmonic distortion（THD+N)	≤0.002%@1KHz，+8dBu			
Maximum input gain	42dB			
Input impedance	10KΩbalance			
Output impedance	100 ohm maximum			
Maximum output level	20dBu			
Operating voltage	220VAC/50Hz			
power	60W			
Size (W*D*H)	488mm×260mmx44mm			
weight	3.0Kg	3.1Kg	3.2Kg	3.2Kg