AI Adaptive Noise and Feedback Suppression Processor ANFS22

2x2 XLR

AI Noise Cancellation | AI Feedback Suppression | Microphone Preamp | Dual Redundant Power

Features

AI Chip Technology

Powered by a dedicated AI processing chip, it integrates core ANS (Adaptive Noise Suppression) and AFS (Adaptive Feedback Suppression) algorithms, deeply optimized for audio capture in complex acoustic environments.

Superior Noise Reduction Performance

The algorithm effectively suppresses both constant and transient noise, with 1~6 levels of noise reduction presets, improving SNR by more than 15 dB. It delivers low-latency processing while enhancing speech intelligibility.

Adaptive Feedback Suppression

The algorithm detects and eliminates acoustic feedback in real time, effectively preventing howling. It offers 1~5 adjustable suppression levels to adapt to different acoustic environments and enhance system stability.

Flexible Gain Control

Supports 0~48 dB analog gain adjustment, compatible with both mic-level and line-level inputs to accommodate pickup devices of varying sensitivity.

Compact Half-Rack Design

Housed in a 0.5RU chassis, it can be installed individually or paired with a second unit to form a standard 1RU space, offering flexible deployment in equipment racks and meeting rooms of all sizes.

2.3-inch LCD Display

Provides real-time status monitoring including device name, IP, MAC address, mic preamp gain, +48V phantom power status, output mute, and AI algorithm operation to keep you fully informed of system performance.

Dual Redundant Power Supply

Supports simultaneous 12V DC and PoE power input for full power redundancy, ensuring uninterrupted operation for mission-critical applications.

Specification

Analog Inputs	2 x Balanced XLR Mic/Line Inputs
Analog Outputs	2 x Balanced XLR Line Outputs
Sample Rate	48 kHz
AD/DA Bit Depth	24-bit
Input Gain	0/6/12/18/24/30/36/42/48 dB
Phantom Power	+48V/10mA Max
Maximum Input Level	+18dBu
Maximum Output Level	+18dBu
Frequency Response	20Hz-20kHz (+0/-0.7 dB)
Signal-to-Noise Ratio (SNR)	≥91 dB
THD+N	≤0.010% (1 kHz, +17 dBu, A-Weighted)
Input Impedance (Balanced)	5.4 kΩ
Output Impedance (Balanced)	600 Ω
Latency (Bypass Mode)	6.1 ms
Power Supply	DC 12V / PoE (IEEE 802.3af)
Dimensions (W × D × H)	216x206.5x44.1 mm
Net Weight	1.1 kg