

AI-NC100

AI NOISE CANCELLATION
AUDIO PROCESSOR



Relacart's newly developed AI Noise Cancellation Audio Processor is equipped with a cutting-edge AI algorithm chip. Powered by a high-performance processor, it optimizes audio captured by external microphones, intelligently reducing noise, eliminating reverberation, and dynamically suppressing feedback—delivering an exceptional listening experience. It is ideal for use in conference rooms, classrooms, hotel auditoriums, and business venues.

Key Features

360° AI Noise Reduction

- Removes background noise from both uplink and downlink communications while preserving voice clarity, enabling natural conversations in any setting.

Full-Duplex Acoustic Echo Cancellation

- Eliminates echoes even during simultaneous speech, ideal for low Signal-to-Noise Ratio (SNR) environments without relying on mechanical design.

Intelligent De-reverberation

- Utilizes Deep Neural Networks (DNN) to eliminate echoes in reflective spaces (e.g., concert halls), enhancing Direct-to-Reverberant Ratio (DRR) for crystal-clear voice reproduction.

Dynamic Feedback Suppression

- Integrated AI processor instantly identifies and suppresses narrow band feedback between speakers and microphones, ensuring stable, distortion-free audio.

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Key Features



Frequency response:	20Hz~20KHZ
Input gain:	0-45dB (panel adjustable)
Input impedance:	3K Ω
Maximum input level:	17dBu (GAIN at 0dB)
Power supply:	48V phantom power supply (software controlled switch)
Output impedance:	500 Ω
Maximum output level:	17dBu
Power supply mode:	DC 12V/500mA DC power supply
Dimensions (mm):	166 (L) x 83 (W) x 44.6 (H)

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System Connection Diagram

