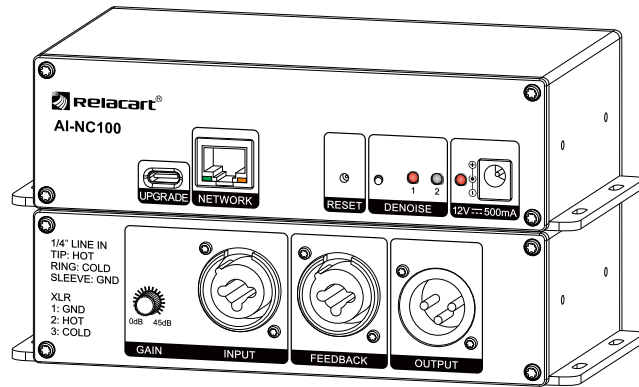


AI-NC100

Ai Core Audio Optimization System



Relacart AI-NC100 is a newly developed AI-powered audio optimization system. Featuring a cutting-edge AI algorithm chip, this powerful processing core optimizes audio picked up by an external microphone, intelligently reducing noise and eliminating reverberation. Dynamic howling suppression and full-duplex acoustic echo cancellation deliver an exceptional listening experience. It's suitable for conference rooms, classrooms, concert halls, performance stages, business spaces, and more.

Specification

Frequency Response: 20Hz~20KHz

Input Gain: 0-45dB (Can be adjusted on the panel)

Input Impedance: 3K Ω

Maximum Input Level: 17dBu (GAIN at 0dB)

Standard microphone power supply: 48V phantom power (software controlled switch)

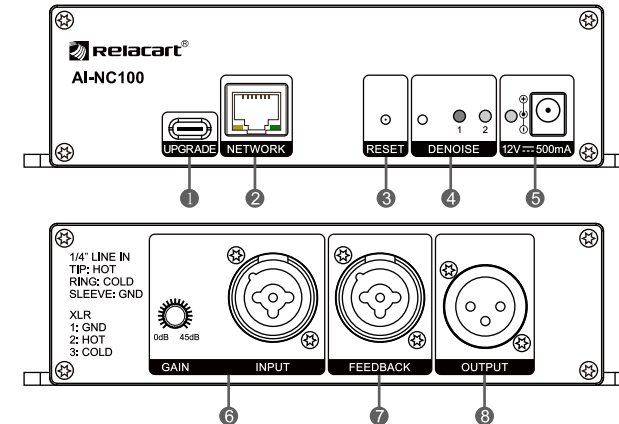
Output Impedance: 500 Ω

Maximum Output Level: 17dBu

Power Supply: DC 12V/500mA DC power supply

Size: 166 x 83 x 44.6 (mm)

Function Introduction



- 1 USB-C upgrade port: Data communication interface, used for firmware upgrade.
- 2 NETWORK port: For PC software communication and DANTE audio (optional)
- 3 RESET switch: press and hold for 5s to restore the network IP address to DHCP (automatic) mode.
- 4 DENOISE toggle switch: Press the switch to switch the signal 1 and 2 indicators to adjust the noise reduction level.
- 5 Power supply interface: Connect a 12V/500mA external power adapter to power the device (with power indicator light)
- 6 Microphone input: Can be connected to any type of microphone source, and is equipped with a gain potentiometer to adjust the microphone volume (gain range: 0-45dB) and provide 48V phantom power (enabled or disabled via software).
- 7 FEEDBACK input: Connect the audio signal from the output of a mixer or amplifier to the FEEDBACK input.
- 8 Audio output port: Can be connected to the audio input port of a mixing console or other device using a standard two-core shielded cable.

Connection Solution

