

Dual Microphone 16KHz Echo Canceling System- MT107E-HD



The MT107E-HD is a DSP based, dual microphone, stereo echo cancelling system designed for easy integration and immediate enrichment of audio communication.

Features

- The MT107E-HD is a dual microphone, single output, stereo, 16KHz Noise Canceling / Echo Canceling solution
- The MT107E-HD utilizes your own microphone and loudspeaker. It provides both analog and digital outputs.
- Both the microphone and the Far-End input are connected through standard 3.5mm stereo audio jacks
- Analog output through standard 3.5mm jack, digital output through USB connection
- USB powered (AC/DC converter with USB connector output available separately)

- Phoenix' proprietary echo canceling, noise canceling, and AGC algorithms with no gating, to prevent the loss of critical information
- Controllable input level and phantom power supply via free downloadable utility

Specifications

- 32KHz sampling frequency; 100Hz-16KHz bandwidth
- Two levels of Echo Canceling aggressiveness and three levels of Echo Canceling speed.
- Controllable tail length – up to 220 ms.
- Residual noise suppressed to the environment noise level to prevent pumping noise
- Eight preset color filters for both the output and the speaker signal
- Low delay (10msec)
- Microphone input connected to the tip and ring of IN1. The following microphone settings are available using the setup software:
 - Mic level (280mV peak-to-peak)
 - Line level (2/4V peak-to-peak)
 - add 6dB boost
 - Optional 2.8V power supply (phantom)

*Units are preset to Mic level without 6dB boost and Phantom On

Note: user can use a single microphone connected to either the tip or ring of IN1

- Far-End Input connected to tip and ring of IN2. The input setting is Line level (2V peak to peak)

Notes:

- 1) Far-End Input will be received through the USB channel if it's active
 - 2) Only one far-end signal is required; the two inputs will support stereo loudspeaker systems
- Audio Input of system (mic jack) connected to the tip of OUT1. The following output settings are available using the setup software:
 - Line level: 2V peak-to-peak
 - Mic level: 200mV peak-to-peak

*Units are preset to Line level

Note: Output will be transmitted through the USB channel if it's active

- Speaker connected to the tip and ring of OUT2. The output setting is :
 - Line level only: 2V peak-to-peak

How To Connect:

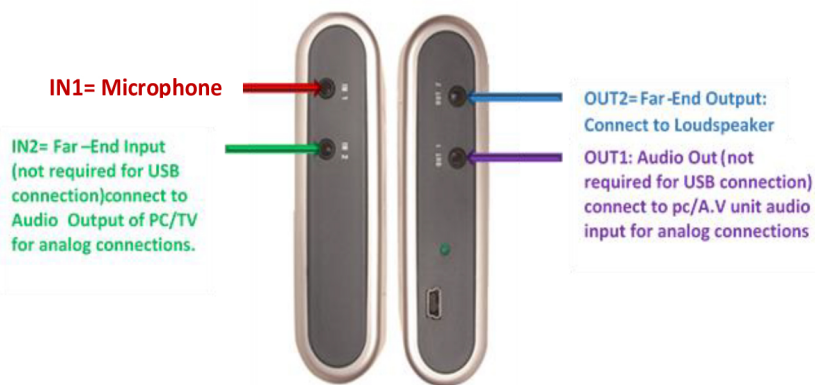
IN1 - Microphone: Connect the microphone into this jack.

IN2 – Far-End Input: Connect your loudspeaker output into this jack (input level is Line level). **NOT REQUIRED FOR USB COMMUNICATION.**

USB- Connect the USB to your PC

OUT1 – Audio Out: Connect OUT1 to your systems audio Input. This is the Far-End Input for local relay as in a PA system.

OUT2 – Far-End Output (LoudSpeaker): Connect OUT2 to your loudspeaker amplifier. **REQUIRED FOR USB COMMUNICATION**



For additional information please refer to our website at www.phnxaudio.com.