PeopleLink Pro Audio DSP

PeopleLink Pro Audio DSP is a professional digital audio processing unit designed for both local recording, play back, and remote interactive classroom and Conference room environments. It uses the featured all-band adaptive echo cancellation algorithm and supports other core audio algorithms including but not limited to adaptive noise reduction, smart mixing, and voice tracking. PeopleLink Pro Audio DSP has 8 channel balanced Mic inputs, 4 channel Line inputs and 6 channel Line outputs. The system can achieve superior front-end sound pick up for recording and playback for interactive classroom and Conference room environments. In addition, PeopleLink Pro Audio DSP supports various signal processing modules and signal routing allocation that can be configured through PC software.

Product Features

- 8 Balanced mic inputs, support 48V phantom power supply, Phoenix connector.

- 4 Balanced line inputs, Phoenix connector.

- 6 Balanced outputs, Phoenix connector.

- 1 Wireless microphone interface, 3.5mm connector.

- 1 Monitor headphone interface, 3.5mm connector

- 1 USB2.0 type A interface, support bidirectional audio data transmission.

- 1 RS-232 serial port, can be externally connected to the control terminal

- 1 RESET key, used to restore the default factory settings.

- 1 RJ45 interface, external configuration computer.

- Full-band adaptive echo cancellation technology.

- Automatic reverberation suppression.

- Smart sound mixing and microphone selection technology.

Product Features

- Dynamic adaptive noise reduction up to 18dB.

- Sampling frequency 32kHz, A/D-D/A in 24-bit.

- Visual control software simplifies panel operation.

- No complicated software configuration, ready to use after device installation.

- RMS and peak value voltage meters; real-time signal magnitude monitoring.

- **Abundant signal processing module:**

  - **Filtering:** High pass and low pass

  - **Equalization:** 7 band parametric equalization

  - **Audio processing:** limiter, compressor, noise threshold, gain control, feedback suppression

  - **Mixing:** smart mixing, matrix mixing

  - Meter module

  - **Control:** volume balance, volume control

General Specifications

Frequency Response

(20Hz~20kHz @ +4dBu)

Microphone : +0/-2dB

Line in : +0/-0.5dB

THD +N

(1kHz @ +4dBu)

Microphone : < 0.009%

Line in : < 0.007%

Equivalent Noise Level

< -84dBu(20Hz~16kHz@22dB)

Dynamic Range

> 105dB(20Hz~16kHz@0dB)

Maximum input Balance

Microphone : -2dBu

Line in : 20dBu

Maximum output voltage (Balanced)

20dBu

Maximum gain

Microphone : 50dB

Line in : 0dB

Input impedance

Microphone : 2.2 KΩ

Line in : 20 KΩ

Output Impedance

400Ω

Sampling frequency

32kHz

A/D-D/A Converter

24 bit

Phantom Power

DC 48V

Size

440mm × 256mm × 44mm

General Specifications

Interface, indicator and knobs

Mic Inputs (1-8) : 8 microphone inputs, Phoenix connecter.

Line Inputs (9-10) : 2 (left and right channel) Line inputs, usually for the local audio source, i.e. DVD, laptop, etc.

Line Inputs (11-12) : 2 (left and right channel) Line inputs, usually for the remote audio reference signal in the interactive classroom and remote teaching environments.

Line Outputs (1-2) : 2 (left and right channel) line outputs, usually for the external recording device

Line Outputs (3-4) : 2 (left and right channel) line outputs, usually for sending the local processed audio signal to remote end in the remote interactive classroom environment.

Line Outputs (5-6) : 2 (left and right channel) line outputs, usually for sending the local recorded signal to remote end in the remote interactive classroom environment

WL-IN : Wireless microphone input, 3.5mm audio connector.

Monitor : Monitor headphone interface, 3.5mm connector.

RS232 : The serial control interface, can be connected to the control terminal.
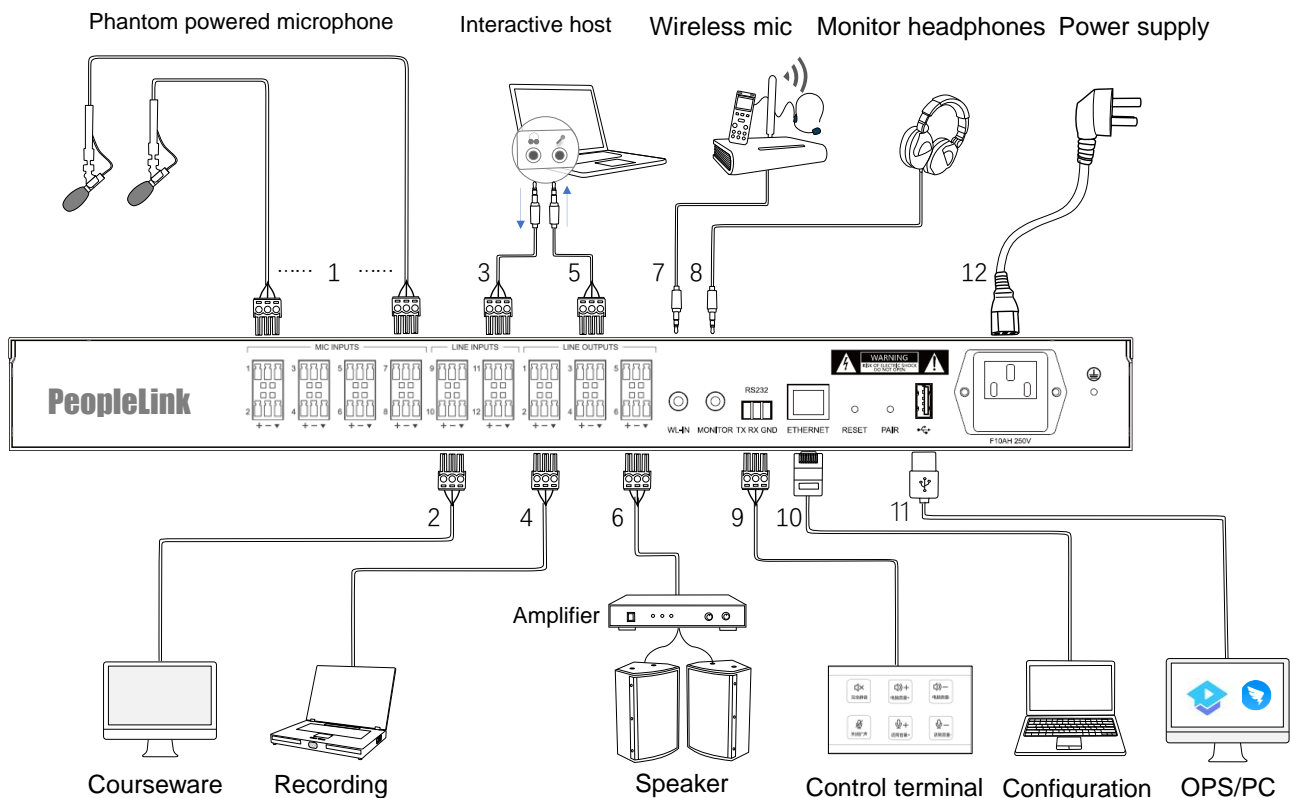
Ethernet : RJ45 port to PC for configuration.

RESET : Restore the factory configuration key. Long press 3S to restart the device and restore the factory configuration.

PAIR : Reserved function keys.

USB2.0 type A interface : Support bidirectional audio data transmission. (RC1206V2-U only)

Power interface : 100-240V AC 50/60Hz

Connections and Usage

Ceiling Microphone

PeopleLink CM is a high-performance full-coverage pickup microphone developed for classroom recording, playback and remote interactive scenarios. A single PeopleLink CM has a pickup radius of 8 meters, and two CM's can cover a classroom or conference room with an area of more than 120 square meters. Lecturers or conference speakers can speak anywhere within 2-8 meters from the omnidirectional microphone without affecting the pickup effect.

PeopleLink CM adopts large-size acoustic transducers to capture a wide dynamic that can pickup a rich and full-bodied sound. The unique enclosure design effectively suppresses large space reverberation that can capture clear, undistorted, and omnidirectional sound.

PeopleLink CM is widely used in classrooms and conference rooms which is a model product of omnidirectional microphone in the industry.

General Specifications

Transducer Type : Φ24 back electret condenser

Circuit Characteristics : JFET impedance transformation; electronic balance

Directionality : Omnidirectional

Frequency Response : 50Hz-20kHz

Sensitivity : -44±3dB(0dB=1V/Pa@1kHz)

Rated Output Impedance : 2.2kΩ

Minimum Load Impedance : 1kΩ

SNR : 75dB(S:(f=1kHz@1Pa) N:(A-Weighted curve))

Maximum Sound Pressure Level : 115dB(f=1kHz, THD<1%)

Power Supply : Support 48V phantom power supply

Dynamic Range : 104dB(20Hz-20kHz@2.5kΩ)

Maximum Output Electrical Level : 1.6dBV(20Hz-20kHz, THD<1%@2.5kΩ)

Working and Storage Temperature : 0-45℃/-20-70℃(32-113 °F/-4 to 158 °F)

Working and Storage Humidity: 10% - 90%(non-condensing)

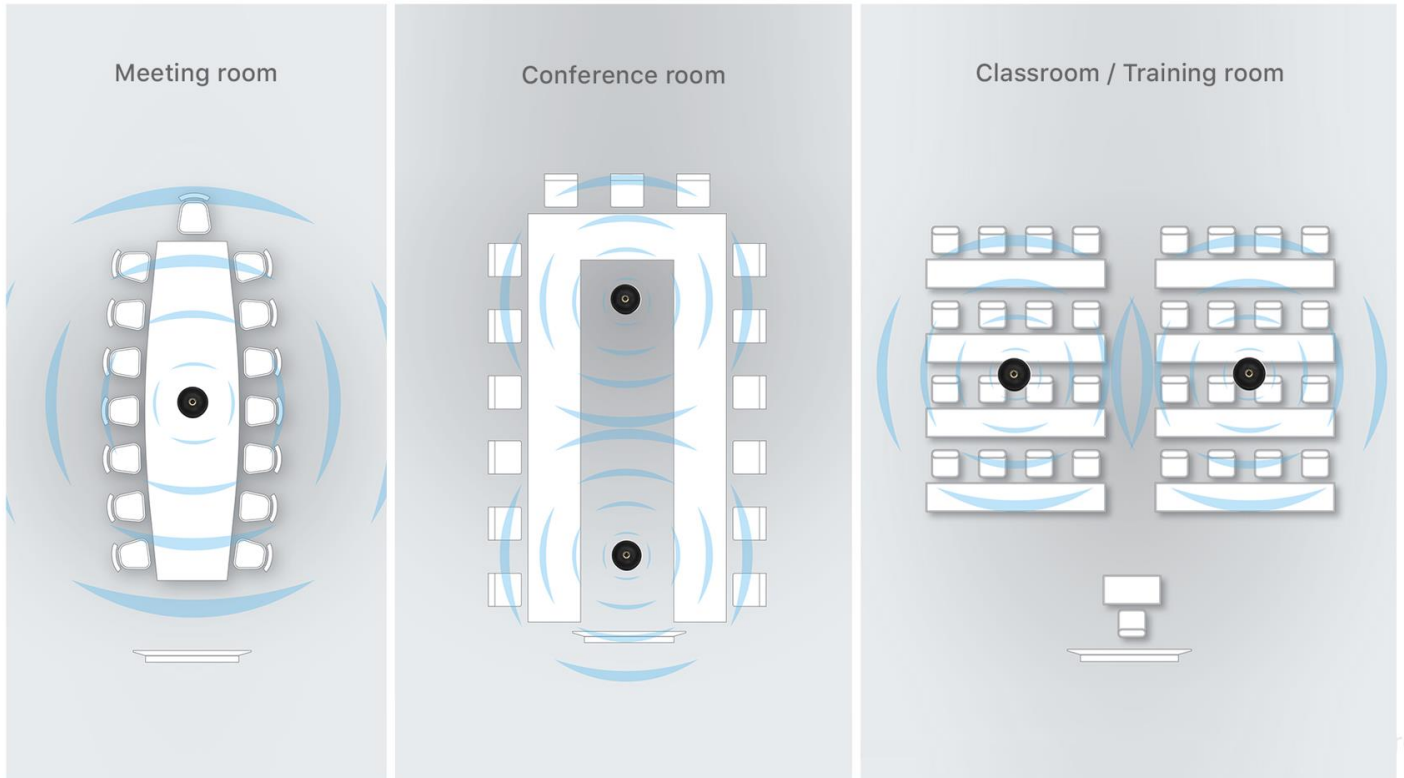**Output Connection and Cable :** Mini XLR-3 Male/ Twisted Shielded MIC Cable

Color : Matte black

Net Weight : 43g

Dimensions : 53x49mm

Device Set-up

Meeting room   Conference room   Classroom / Training room

Disclaimer:- Room setup diagrams provided for reference only. Actual room setup and size may vary as per requirements.

Ordering Information

PeopleLink Pro Audio DSP 12 Channel :   **PPU-MCC-DSP-PRO-12C**

PeopleLink Ceiling Microphones :   **PPU-MIC-DSP-1CM**

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For more information on **PeopleLink Pro Audio DSP** [Click Here](#)

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