Peoplelink Pro Audio DSP (12 Channel)

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 pend 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

- Full-bandwidth adaptive echo cancellation(AEC)

- 8 balanced Mic inputs, 4 balanced Line inputs, Phoenix connector

- 6 balanced Line outputs, Phoenix connector

- Support 48V phantom power

- Sampling frequency 48kHz, A/D-D/A in 24 bit

- Ethernet port for set up and configuration

- Serial interface for third-party RS-232 remote control

- Signal routing - switching and allocation

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

- Smart mixing and microphone selection technology

- Adaptive noise reduction up to 18dB

Product Features

- **Abundant signal processing module:**

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

  - **Equalization: 10** band parametric equalization

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

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

  - Delay module, meters

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

Front Panel

▼ Front Panel Instructions

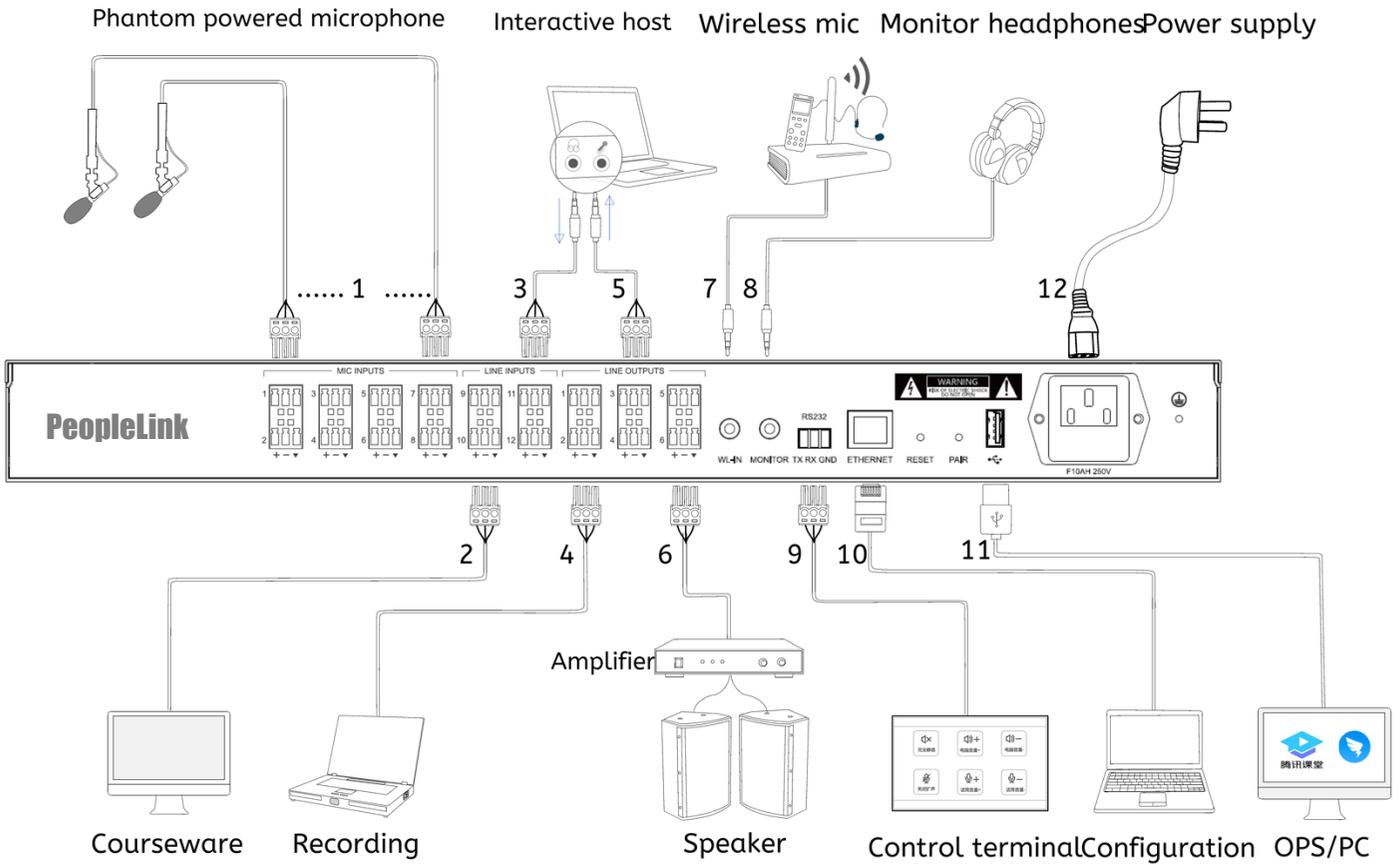| Interface, indicator and knobs	Function description
POWER	Power indicator, power on indicator on
RUN	Operation indicator, slow flashing indicates normal operation
NETWORK	Network connection indicator, always on when network and PC control terminal connection is established

Rear

▼ Rear Panel Instructions

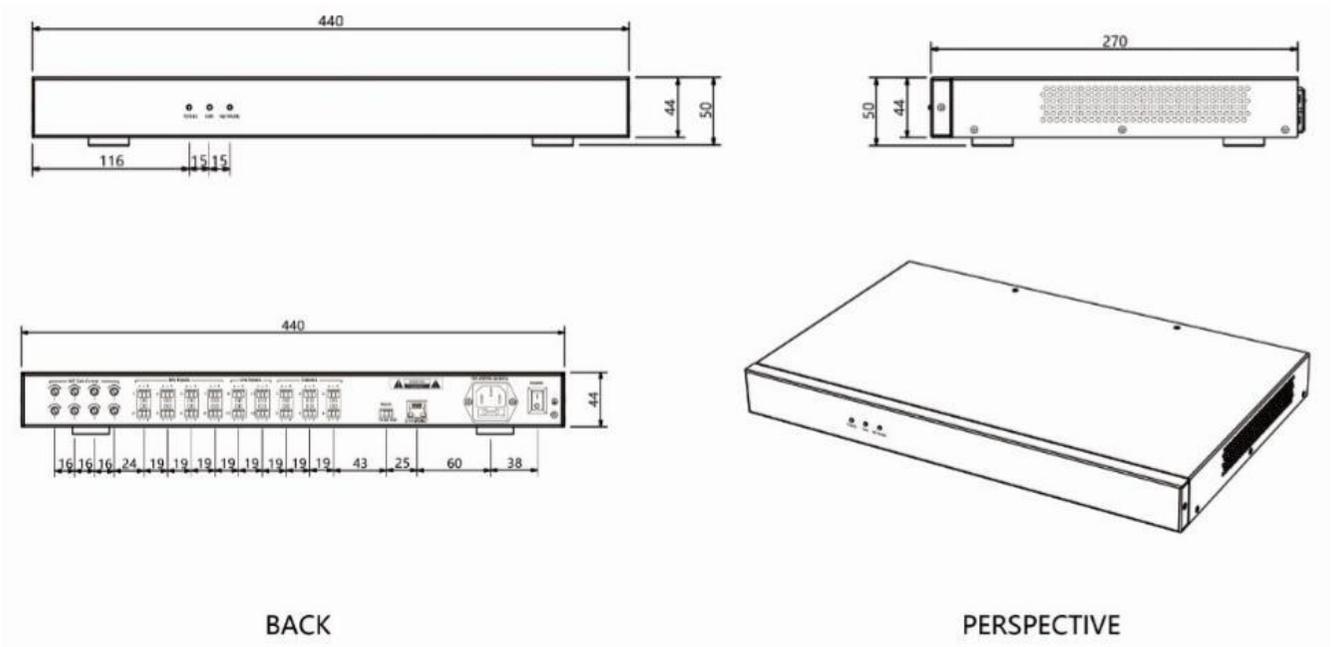| Interface, indicator and knobs	Function description
Mic Gain Control	Microphone input gain adjustment knob
Mic Inputs(1-8)	8 microphone inputs, male Phoenix connector
Line Inputs(9-10)	2 (left and right channel) Line inputs, usually for the local audio source, i.e. DVD, laptop, etc.
Line Inputs(11-12)	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 external amplifier or active loudspeaker for remote and local audio playback
Line Outputs(3-4)	2 (left and right channel) line outputs, usually for the external recording device
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
RS232	The serial control interface, external control terminal
Ethernet	RJ45 port to PC for configuration
USB	USB 2.0
100-240VAC 50/60Hz	Power interface
POWER	Power switch

General Specifications

Parameter	Value
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~20kHz@22dB)
Dynamic Range	> 105dB(20Hz~20kHz@0dB)
Maximum input voltage	
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	48kHz
A/D-D/A Converter	24 bit
Phantom Power	+48 VDC

Connections and Usage

Phantom powered microphone   Interactive host   Wireless mic   Monitor headphones   Power supply

Courseware   Recording   Amplifier   Speaker   Control terminal   Configuration   OPS/PC

Pro DSP Dimensions

BACK

PERSPECTIVE

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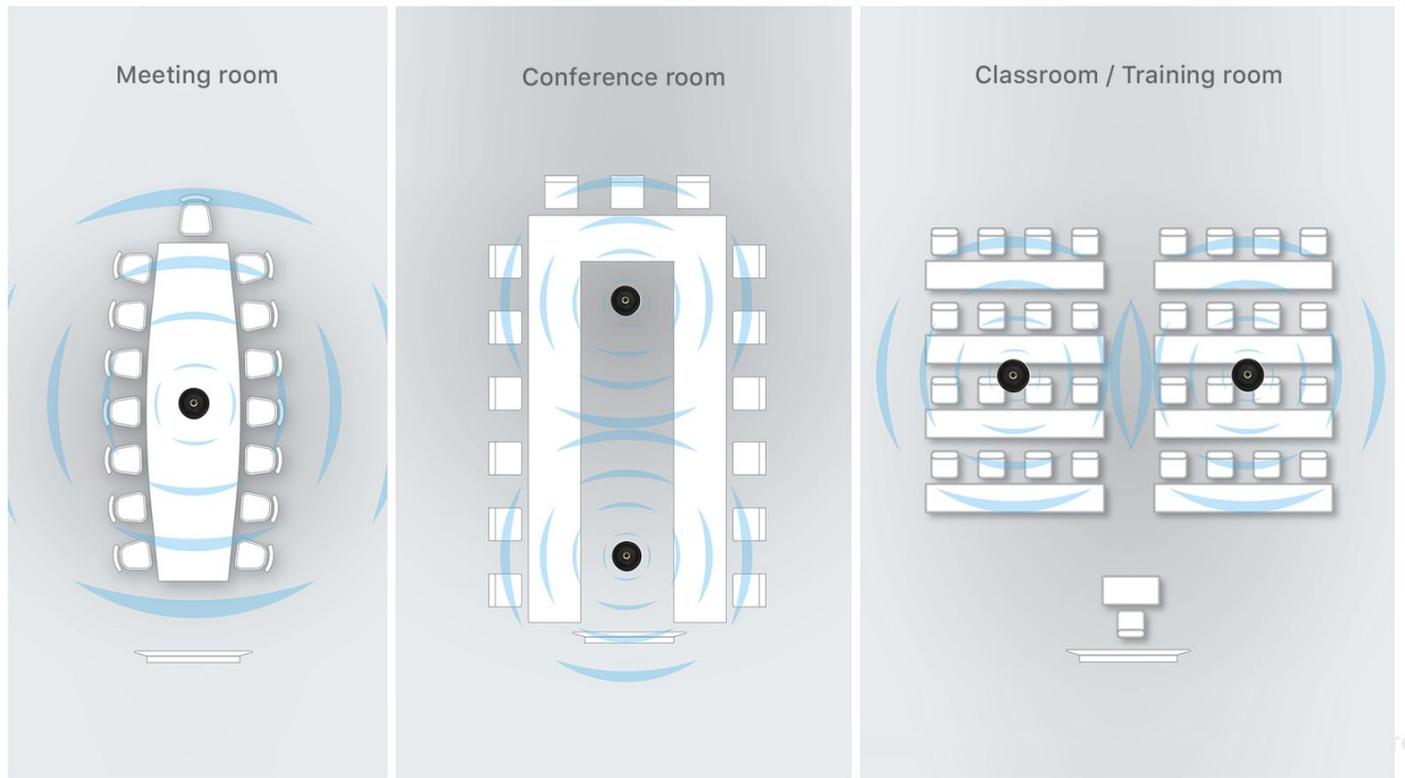
PeopleLink CM is widely used in classrooms and conference rooms which is a model product of omnidirectional microphone in the industry.

General Specifications

Parameter	Value
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%)

Parameter	Value
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 ℉/-4 to 158 ℉)
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

Application Scenario

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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