Peoplelink Pro Audio DSP

PeopleLink Pro Audio DSP is a professional digital audio processing unit designed for both local recording, playback, 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.

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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

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~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

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Front Panel Instruction

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

Rear Panel Instruction
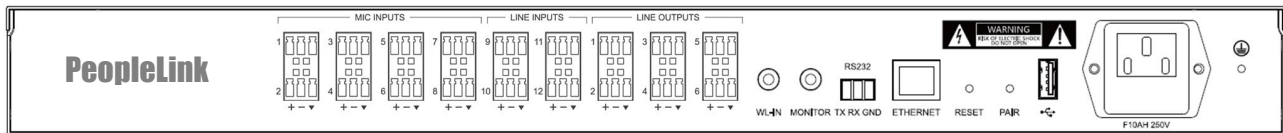
Interface, indicator and knobs	Function description
Mic Inputs(1-8)	: 8 microphone inputs, Phoenix connector.
Line Inputs(9-10)	: 2 (left and right channel) Line inputs, usually for the local audio source, i.e. DVD, laptop, etc.
Line Inputs(11-12)	: 2 (left and right channel) Line inputs, usually for 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 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.
Power interface	: 100-240V AC 50/60Hz

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Connections and Usage

Phantom powered microphone   Interactive host   Wireless mic   Monitor headphones   Power supply

Courseware   Recording   Amplifier   Speaker   Control terminal   Configuration   OPS/PC
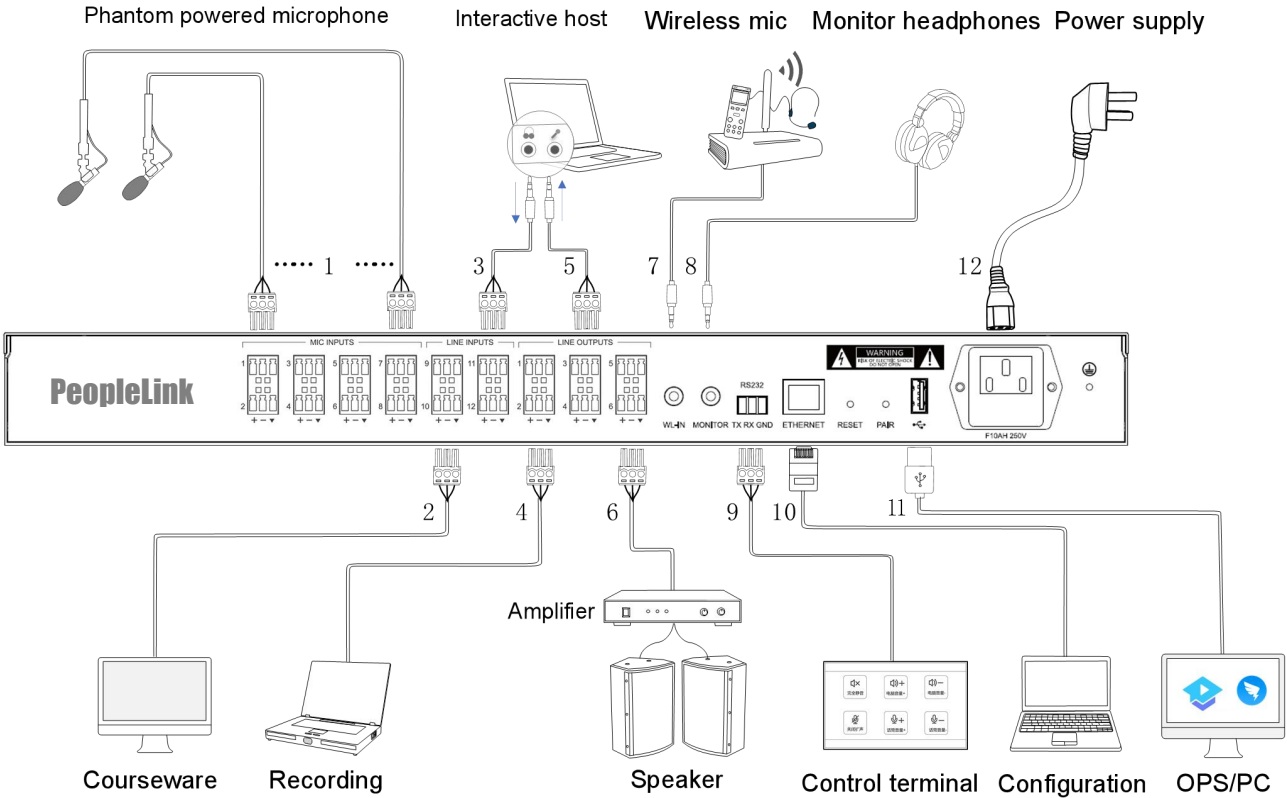
Ceiling Microphone

PeopleLink CM is a high-performance full-coverage pickup microphone developed by PeopleLink for classroom normalized 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 <Product> without affecting the pickup effect.

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

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

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Specifications

TransducerType	:	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 PressureLevel	:	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 Connectionand Cable	:	Mini XLR-3 Male/ Twisted Shielded MIC Cable
Color	:	Matte black
Net Weight	:	43g
Dimensions	:	53x49mm

Ordering Information

PART CODE

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

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

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