

DSP1280

Professional Active Line Array Loudspeaker System



Description

Engineered for high-demand environments, the Professional Active Line Array System delivers powerful, crystal-clear audio with outstanding amplification performance—ideal for large conference rooms, outdoor stages, and school auditoriums.

Features

- Modular design enables flexible speaker combinations for varied venue requirements.
- Engineered for optimal sound coverage and even distribution across the listening area.
- System sensitivity: 98.7 dB; Maximum SPL: 130.74 dB.
- Total power output: up to 2400W, delivering robust headroom for any application.
- Produces clear and highly intelligible audio, even in noisy, challenging environments.

- Finished with advanced polyurea waterproof paint for long-lasting durability.
- Built to resist dust, water, and moisture ingress.
- Maintains stable, consistent performance in extreme weather and harsh operating conditions.

Specifications

Model	DSP1280
Frequency Response	35Hz-20KHz(±3dB) 1watt@1m
Sensitivity	Full-Range Speaker: 96dB Subwoofer: 95dB Whole System: 98.7dB
Max.SPL	Full-Range Speaker: 125dB Subwoofer: 124dB Whole System: 130.74dB
Nominal Impedance	4 Ohm
Nominal Power	800W Full-range Speaker, 800W Subwoofer
Peak Power	3200W
Dispersion H x V	140° Horizontal * 25° Vertical
Crossover Point	Active 150Hz, Built-in Mid and High-frequency Drivers: 1.2KHz
HF drivers	2 ×1.75” HF drivers (44-turn voice coil tweeter)
MF drivers	6 × 5.5" Midrange drivers (35mm voice coil)
SUB drivers	2 × 12" Subwoofers (75mm voice coil)
Active Power Amplifier	2×1200W
Paint	Polyurea Waterproof and Scratch-resistant Paint
Product Dimensions	Upper Column Speaker: 700H × 150W × 190D (mm)
	Lower Column Speaker: 650H × 150W × 170D (mm)
	Subwoofer: 860H × 340W × 350D (mm)
Net Weight	Upper Column Speaker: 14kg
	Lower Column Speaker: 11kg
	Subwoofer: 32kg

Product Information

- RS485 Interface:** Used for serial communication between device, which can realize the connection and control of multiple speakers or control systems and facilitate the construction of audio networks for unified management and signal transmission
- CLIP/SIG/PWR Indicator Light:** CLIP (clip-ping) light is on, indicating that the input signal is overloaded, which may lead to audio distortion; SIG (signal) light shows whether there is audio signal input; PWR (power supply) light indicates that the equipment has been powered on, which is used for condition monitoring and auxiliary troubleshooting.
- GAIN Knob:** Adjust the gain of the input signal, control the signal intensity input to the power amplifier circuit, avoid signal overload (the CLIP indicator light indicates overload), and keep the input signal at an appropriate level to



ensure the audio output quality.

4. **MODE Knob:** Switch working modes, which may cover different audio processing modes (such as full-frequency and low-frequency enhancement, etc), input signal type adaptation (adapting different parameters of LINE or MIC input), or setting the role of speakers in the system (main box, auxiliary box, etc), and flexibility adapt to various usage scenarios.

5. **LINK A/B Interface:** it belongs to line input/output interface, which can be used for serial connection between speakers (such as connecting main speakers and auxiliary speakers to transmit audio signals), and can also be connected to external audio signal sources (such as players, mixers, etc,) to expand audio input paths and realize multi-speaker system construction

LINE/MIC B interface: it supports line level signal (such as player output) and microphone signal input, and adjusts the input GAIN through the GAIN knob to adapt to different signal strengths, so as to meet the requirements of microphone pickup (meeting, singing, etc) and external audio equipment playback.

6. **Power Switch and Related (Power Input Port, Power Cascade Port, Input Voltage Switch, Power Switch):** it is used to turn on/off the power supply of the speaker to ensure the power supply control of the equipment, and there may be protection devices such as insurance next to it to protect the amplifier board and the speaker in case of overload and short circuit.