

DSP1500 Phased Array Speaker



Features

- With several full-band speaker units, with a wide reduction frequency.
- With built-in high-performance DSP patented algorithm sidelobe suppression.
- With innovative design, it can project the acoustic center of the array to up to three audience areas.
- With adjustable vertical sound directivity, which can evenly emit sound down to the specified direction and greatly reduce the upward emission of sound, and attenuate the acoustic reflection of the ceiling.
- The digital speaker with an anti-reverberation system, which can increase the speech intelligibility in a reverberation environment.
- Can display and edit the 3D emission model synthesized by the speaker array on the user interface.
- With built-in multi-band FIR+IIR equalizer.
- Can connect a dedicated passive speaker and a dedicated subwoofer for applications in different scenarios.
- With built-in ultra-high sensitivity input signal detection function, for flexible start and stop noise reduction.
- The column speaker shell is made of aluminum material.
- With beautiful appearance, suitable for speech and background music playback in various conference halls, museums, and concert halls.

Specifications

Item	Model	DSP1500
Frequency Range ($\pm 3\text{dB}$)		100 - 14KHz
MAX. SPL. (1M/1W)		100 dB SPL
Sound Beam	Horizontal (Fixed)	130°
	Vertical (Adjustable)	$\pm 45^\circ$
	Focus Offset	5 – 50m
Dynamic Range		>100dB
Audio Input	Rated Level	-8dBV(line)
	Type (line)	Balanced/Single-ended (1,3GND; 2 Signal)
	Type (70V)	(2 positive, 3 negative)
	Impedance (Balance)	10K Ω
Power Amplifier	Type	PWM (class D)
	Power (4 Ω)	8 \times 35Wrms
Voltage		AC 100V–240V 47-63Hz
Power Consumption	Idle	12VA (PFC \geq 0.92)
	Full Load	400VA (PFC \geq 0.95)
Temperature Environment		0°C to 50°C
Speaker		8 \times 4"

Rear Panel:

